CITY PLANNING BOARD

BOARD AGENDA

Planning Board Regular Meeting - Wednesday, July 14, 2021 - 2:00 p.m.
City Hall - City Commission Chambers, 100 North U.S. #1, Fort Pierce, Florida

1. **CALL TO ORDER**

2. **PLEDGE OF ALLEGIANCE**

3. **ROLL CALL**

4. **CONSIDERATION OF ABSENCES**

5. **APPROVAL OF MINUTES**

   a. Minutes from the June 14, 2021 meeting

6. **HEARING OF THE LOCAL PLANNING AGENCY**

   a. Future Land Use Map Amendment - RV Storage - 2192 Peters Road

7. **NEW BUSINESS**

   a. Rezoning - RV Storage - 2192 Peters Road

   b. Annexation - 1701 Woodward Drive

   c. Conditional Use - Orange Blossom Storage - 4204 Okeechobee Road

   d. Conditional Use - Nole Dwelling Rental - 1501 Thumb Point Drive

e. Conditional Use and Waiver of Distance - Bamboo Palms Arcade - 1717 S. US Highway 1

f. Site Plan and Conditional Use - Ocean Village Clubhouse - 2400 S. Ocean Drive

g. Disposal of Surplus Property - 133 N. 10th Street

8. **COMMENTS FROM THE PUBLIC**

Any person who wishes to comment on any subject may be heard at this time. Please limit your comments to three (3) minutes or less, as directed by the Chair, as this section of the Agenda is limited to thirty minutes. The Planning Board will not be able to take any official actions under Comments from the Public. Speakers will address the Board and the Public with respect. Inappropriate language will not be tolerated.

9. **DIRECTOR'S REPORT**

10. **BOARD COMMENTS**

11. **ADJOURNMENT**

Any person seeking to appeal any decision by the Planning Board with respect to any matter considered at this meeting is advised that a record of proceedings is required in any such appeal and that such person may need to insure that a verbatim record of the proceedings is made including the testimony and evidence upon which the appeal is to be based.
Persons who require special accommodations under the Americans with Disabilities Act (ADA) should contact (772) 467-3729, at least five (5) days prior to the meeting. Persons who are hearing or speech impaired may use the Florida Relay System by dialing 711.

Planning Board **5. a.**

Meeting Date: 07/14/2021

Information

REQUESTED ACTION

Minutes from the June 14, 2021 meeting

LOCATION

N/A

RESPONSIBLE STAFF

N/A

RECOMMENDATION

N/A

Attachments

Planning Board Minutes 6/14/21

Form Review

Form Started By: Alicia Rosenthal Started On: 06/17/2021 01:25 PM

Final Approval Date: 06/17/2021

D R A F T

CITY OF FORT PIERCE

PLANNING BOARD

Planning Board Minutes

OF THE REGULAR MEETING OF THE FORT PIERCE CITY PLANNING BOARD HELD ON MONDAY, JUNE 14, 2021, IN FORT PIERCE CITY HALL, COMMISSION CHAMBERS, 100 NORTH US HIGHWAY 1, FORT PIERCE, FLORIDA.

1. CALL TO ORDER

2. PLEDGE OF ALLEGIANCE

3. ROLL CALL

Ms. Johnson Scott left the meeting at 5:30 PM.

Present: Harold Albury; Marcia Baker; Nichelle Clemons; Michael Broderick; Bob Burdge; Gloria Johnson-Scott; Frank Creyaufmiller, Chairman

Staff Present: Jennifer Hofmeister, Planning Director
Rebeca Guerra, Assistant Planning Director
Brandon Creagan, Planner
Alicia Rosenthal, Executive Assistant

4. CONSIDERATION OF ABSENCES

All Planning Board members were in attendance.

5. APPROVAL OF MINUTES

a. Minutes from the May 10, 2021 meeting

Motion was made by Michael Broderick, and seconded by Bob Burdge to approve the minutes from the May 10, 2021 meeting.

AYE: Michael Broderick, Bob Burdge, Gloria Johnson-Scott, Harold Albury, Marcia Baker, Chairman Frank Creyaufmiller

Other: Nichelle Clemons (ABSTAIN)

Passed

6. NEW BUSINESS

a. Voluntary Annexation - 186 Melton Drive

Mr. Creagan gave an overview of the application. No one spoke for or against the annexation.

Motion was made by Marcia Baker, and seconded by Michael Broderick to approve the annexation.

AYE: Michael Broderick, Bob Burdge, Gloria Johnson-Scott, Harold Albury, Marcia Baker, Nichelle Clemons, Chairman Frank Creyaufmiller

Passed

b. Voluntary Annexation – King Orange Drive & Mura Drive

Mr. Creagan gave an overview of the application and answered questions from the Board on access and roadway improvements. Mr. Creagan explained that the proposed development will have to go through the Technical Review Committee process.

Motion was made by Michael Broderick, and seconded by Nichelle Clemons to approve the annexation.

AYE: Bob Burdge, Gloria Johnson-Scott, Harold Albury, Marcia Baker, Nichelle Clemons, Michael Broderick, Chairman Frank Creyaufmiller

Passed

c. Voluntary Annexation - Edwards Landing - 3 Properties

Mr. Creagan gave an overview of the application and he noted the annexation is part of the FPUA Annexation Agreements. Mr. Creagan stated a portion of the residential development has been completed, with a small portion on the corner for future commercial space, and subdivision applications will be forthcoming.

Motion was made by Nichelle Clemons, and seconded by Harold Albury to approve the annexation.

AYE: Gloria Johnson-Scott, Harold Albury, Marcia Baker, Nichelle Clemons, Michael Broderick, Bob Burdge, Chairman Frank Creyaufmiller

Passed

d. **Zoning Atlas Map Amendment - Kings Highway Commerce Park - 9 Parcels**

Mr. Creagan gave an overview of the application and answered questions from the Board. Mr. Creagan stated the parcels will be rezoned to CP-1 - Commercial Parkway for flex and warehouse space.

Jeff Iravani, Applicant Representative, answered questions from the Board on total square footage and subdividing the space. He stated the 1.9 million square feet will be developed in phases.

Motion was made by Michael Broderick, and seconded by Nichelle Clemons to approve the Zoning Atlas Map Amendment.

AYE: Harold Albury, Marcia Baker, Nichelle Clemons, Michael Broderick, Bob Burdge, Gloria Johnson-Scott, Chairman Frank Creyaufmiller

Passed

e. **Zoning Atlas Map Amendment (PD Modification) - Harbour Cay Phase II - 835 Seaway Drive**

Mr. Creagan gave an overview of the application and answered questions from the Board. Mr. Creagan highlighted that the modification is a continuation of development at 825 Seaway Drive. He stated Phase II will have a 6,500 square foot retail building with 14 storage units, which were requested by the Harbour Isle residents. Mr. Creagan noted Kimley Horn reviewed the traffic study.

Ms. Baker asked if the right turn exit only driveway could be reconfigured with a more prohibitive slant to discourage people from entering and from making a left hand turn.

Brad Currie, Applicant Representative, explained that the access was approved by the Department of Transportation and there will be "No Left Turn" and "Do Not Enter" signs. Mr. Currie did say that they would look at a better design with curbing.

Mr. Albury suggested a gate at the exit to prevent vandalism and keep people from entering the exit only driveway.

Craig Mason, Developer, stated the storage space is open to the public and since there is only 14 units, it will not be a high traffic area.

Mr. Broderick stated the no loading and no parking capability at the storage units is a logistical issue that is somewhat hazardous.

Mr. Mason suggested stripping the loading space areas.

Motion was made by Michael Broderick, and seconded by Marcia Baker to approve the request subject to the following conditions:

1. Before a Certificate of Occupancy is issued, a Landscape Bond shall be submitted for all proposed landscaping, pursuant to City Code 123-6
2. Loading zone demarcation areas shall be marked in front of the storage units and be approved by the Planning department at the building permit stage.

AYE: Nichelle Clemons, Michael Broderick, Bob Burdge, Gloria Johnson-Scott, Harold Albury, Marcia Baker, Chairman Frank Creyaufmiller

Passed

f. **Text Amendment - Chapter 125-187: Dwelling Rentals**

Ms. Guerra explained the text amendment would modify the Use Table eliminating the Conditional Use approval requirement for Dwelling Rentals. She said it would primarily affect the E-2, E-3, R-1, R-2, R-3, R-4, R-4A, and R-5 zoning districts and dwelling rentals are instead proposed to be permitted, by right, in every zoning district of the City. Ms. Guerra noted that by changing the location or duration of dwelling rentals,a City's grandfathered ordinance will lose its protection.

Ms. Hofmeister stated that the proposal is to remove the Short Term Rental approval process from Chapter 125 - Zoning and create a new section for its regulation in Chapter 22 - Licenses, Taxation and Business Regulations.

Ms. Guerra stated that it was the City Commission's consensus at today's Conference Agenda meeting to allow vacation rentals and short term rentals by right and remove the Conditional Use process for them.

Mr. Broderick explained the Conditional Use process is broken and E-1 zoning will lose its protection. He stated the Short Term Rental Task Force will remain in place and that the registration process includes strict enforcement and two full time Code Enforcement officers will be hired to facilitate this.

Ms. Baker suggested keeping the Conditional Use process for one year to see how the new regulations work out and to safeguard the city. Ms. Baker expressed concerns with vacant properties in the commercial districts being developed into motel/cottages without hotel requirements. Ms. Baker said the city would be imposing strong regulations on snow birds who rent three-four months out of a year.

Chairman Creyaufmiller detailed the number of hours being spent between staff, Planning Board members and City Commission discussing Conditional Uses for Short Term Rentals. He stated over 80% of the applications are approved because there is not enough competent substantial evidence.

Ms. Clemons stated since she has been a Planning Board member, the dwelling rental Conditional Uses take up the majority of the discussions and every application has been approved because there is no leg to stand on to deny the application.

Paul Schall, realtor, spoke in favor of vacation rentals and streamlining the process.

Hoyt Murphy, realtor, expressed concerns with Ocean Village and he stated there is a major difference between short term rentals and vacation rentals.

Kris Einstein, resident, asked for clarification on how the Short Term Rental grandfathering effects the Use Table.

Lisa Cataline, Manager for Coldwell Banker, stated that 120 of the 187 short term rental licenses in the city are for Ocean Village.

Chairman Creyaufmiller asked if Ocean Village will have to go through the registration process.

Motion was made by Michael Broderick, and seconded by Nichelle Clemons to approve the text amendment.

AYE: Nichelle Clemons, Michael Broderick, Bob Burdge, Harold Albury, Chairman Frank Creyaufmiller

NAY: Marcia Baker

Passed

7. COMMENTS FROM THE PUBLIC

There were no comments from the public.

8. DIRECTOR'S REPORT

Ms. Hofmeister provided the Board with a copy of the draft language for the Short Term Rental/Vacation Rental registration process. She asked the Board to contact Ms. Guerra with any questions they may have.

9. BOARD COMMENTS

Chairman Creyaufmiller asked Ms. Guerra to read off the Short Term Rental Task Force Committee members and he thanked the effort of all the members and said he was amazed at how fast the the proposal was completed.

10. ADJOURNMENT

Planning Board **6. a.**

Meeting Date: 07/14/2021

Information

REQUESTED ACTION

Future Land Use Map Amendment - RV Storage - 2192 Peters Road

LOCATION

2192 Peters Road

RESPONSIBLE STAFF

Brandon C. Creagan, MCRP, LEED Green Associate, Senior Planner

RECOMMENDATION

Approval

Attachments

Staff Report
Application & Supporting Documents
Aerial Map
Future Land Use
Zoning Map
TRC Comments

Form Review

Form Started By: Brandon Creagan Started On: 07/08/2021 10:30 AM

Final Approval Date: 07/08/2021

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

TO:	Members of the City of Fort Pierce Planning Board
THROUGH:	Jennifer Hofmeister-Drew, AICP, LCAM, Planning Director
FROM:	Brandon Creagan, MCRP, LEED Green Associate, Senior Planner
RE:	**Application for Future Land Use Map Amendment** **Application for Zoning Atlas Map Amendment** **RV Storage – 2192 Peters Road**
BOARD DATE:	July 14, 2021

STAFF REPORT

Property Owner	R.V. Development, LLC 547 Wash Roberts Lane McMinnville, TN 37110
Representative:	Macritchie Storage Ventures, LLC 715 5th Avenue, SW, Suite 1700 Calgary AB T2P 2X6, Canada
Requested Action:	Approval to change the Future Land Use of a parcel from Low Density Residential (RL) to General Commercial (GC) Approval to Rezone a parcel from Single Family, 2 du/acre (E-2) to General Commercial (C-3)
Site Location:	2192 Peters Road
Parcel IDs:	2313-432-0000-000-4
Existing Use:	Vacant
Parcel Size:	17.83 acres
Current Future Land Use:	Low Density Residential (RL)
Current Zoning:	Single Family, 2 du/acre (E-2)

Proposed Future Land Use: General Commercial (GC)

Proposed Zoning: General Commercial (C-3)

	North	East	South	West
Surrounding FLU:	RL (FP) RU (SLC)	GC(FP)	GC (FP) Pending	RU (SLC)
Surrounding Zoning:	E-2 (FP) RS-2 (SLC)	PD (FP)	C-3 (FP) Pending	AR-1 (SLC)

Staff Analysis:

Request

In accordance with Sections 125-37, 125-133, and 125-136 of the City Code and Chapter 163.3184, F.S., the applicant is requesting review and approval of a Future Land Use Map Amendment from Low Density Residential (RL) to General Commercial (GC) with a compatible change to the Zoning Atlas (Rezoning) from Single Family, two (2) du/acre (E-2) to General Commercial (C-3) to develop the site for a future RV storage lot.

Future Land Use and Zoning Designation Comparison

The subject site currently has a Future Land Use of Low Density Residential (RL). The RL designation is intended for parcels that are best suited for lower density residential uses. The predominant development typology will consist of single family detached housing but can also contain duplexes and multifamily residences. Limited commercial uses intended to serve the neighborhood shall be allowed. Compatible public, quasi-public, and special uses including parks, churches, non-profit clubs, schools, and daycare facilities shall also be allowed. This land use category ranges in density from 1 to 6.5 dwelling units per acre.

The applicant is seeking a Future Land Use of General Commercial (GC) to be consistent with the development that will be proposed on the site. The GC designation provides for higher intensity commercial developments or horizontal and vertical mixed-use developments. Uses allowed within this designation include multifamily residential, intensive/general commercial, retail, service, offices, tourist/entertainment facilities, hotels/motels, parks/recreation, along with compatible public, quasi-public, and special uses. This land use designation allows for a maximum density of 15 dwelling units per acre and a maximum FAR of 1.0. Development shall include either commercial or mixed uses fronting major roadway corridors with higher intensity near major intersections. Residential uses may comprise up to 20 percent of the total floor area of the General Commercial future land use designation.

As the area is surrounded by land use that is either General Commercial (GC), Medium Density Residential (RM), Mixed Use (MXD), or Residential Urban, 5 du/ac (RU), the requested General Commercial land use is compatible with its surrounding uses. This area is experiencing multiple requests to annex into the city, in combination with both Future Land Use and Zoning map amendments to Commercial in the past few months. The subject request is consistent with these

recent changes. There are no direct conflicts with the subject request. Staff has indicated that proper attention to future development in the proximity is necessary to properly plan for increased traffic and subsequent impacts to the level of service standard.

The traffic study concluded that the change in land use can be accommodated with the current funded long-range transportation network and the proposed daily trips will not have a significant impact on the transportation network. At the time of submittal of a development proposal for the subject site, the applicant will be required to submit for review and approval of a subsequent traffic study that analyzes the traffic impacts of the proposed development and layout of the site plan. The nearby roadway of Kings Highway from Orange Avenue to Okeechobee Road is currently undergoing a planned Department of Transportation reconstruction that includes road widening, intersection improvements, and drainage improvements.

Standards for Review

The following standards must be satisfied per Section 125-136 of the City Code prior to the approval of the proposed applications:

(1) The amendment is consistent with the Comprehensive Plan.
(2) The amendment will not have an adverse effect on the ability of the City to:

a. Satisfy land and water use needs; and
b. Meet transportation demands and provide community facilities and services.

(3) The amendment will promote and protect the public health, safety, and general welfare.

The proposed amendment is consistent with the Goals, Objectives, and Policies of the City's Comprehensive Plan. The Zoning Atlas Map Amendment promotes and protects the public health, safety, and general welfare as the request as proposed is not out of character for the area and is similar to surrounding land uses and zoning designations. The current zoning of Single Family, 2 du/acre (RS-2) is not compatible with the surrounding area as this zoning category is suitable for areas with single family estates or other residentially zoned areas and not for areas that are commercial or industrial centers.

Technical Review Committee

All affected City and County Departments have reviewed the proposed Future Land Use Map and Zoning Atlas Map Amendments and have provided conditional approval based on compliance with requirements of the City Code and the Comprehensive Plan. The comments generated from the technical review and any responses by the applicant have been provided.

Staff Recommendation Future Land Use Map Amendment

The requested Application for Future Land Use Map Amendment meets the criteria specified in Section 125-136 of the City Code, the Comprehensive Plan, and does not adversely affect the public health, safety, convenience, and general welfare; Staff recommends that the Local Planning Agency (Planning Board) forward a recommendation of **APPROVAL** to the City Commission.

Staff Recommendation Zoning Atlas Map Amendment

The requested Application for Zoning Atlas Map Amendment meets the criteria specified in Section 125-136 of the City Code, the Comprehensive Plan, and does not adversely affect the public health, safety, convenience, and general welfare; Staff recommends that the Planning Board forward a recommendation of **APPROVAL** to the City Commission.

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

Application for Future Land Use Map Amendment

☒ Future Land Use Map Amendment – Large Scale (>10 acres)

☐ Future Land Use Map Amendment – Small Scale (<10 acres)

In accordance with Chapter 163.3187, Florida Statutes, The City of Fort Pierce will consider applications for land use changes on parcels in excess of 10 aces ("Large Scale Amendments") only twice each calendar year. The City Commission will consider applications for land use changes on parcels less than or equal to 10 acres with a maximum density of 10 units per acres or less at any time during the calendar year. You are encouraged to schedule a pre-application meeting with the planning staff and to submit your application up to three months in advance of the application deadline.

Application submission shall include the following:

•**TRC** (*Initial Submission): One (1) original and (8) paper copies of the application and support documents and provide one (1) electronic copy of the application packet as described below.

•**Planning Board**: One (1) original and (13) paper copies of the application and support documents and provide one (1) electronic copy of the application packet as described below.

•**City Commission**: One (1) original and (11) paper copies of the application and support documents and provide one (1) electronic copy of the application packet as described below.

In addition to a complete application, packets shall include:

- ☐ Warranty Deed & Legal Description
- ☐ St. Lucie County Property Record Card
- ☐ Statement of why there is a need for the proposed future land use map amendment and how the amendment will result in an orderly and logical development pattern; statements how amendment(s) are consistent with Comprehensive Plan; how future land use designation is compatible with future land use designations and existing land uses surrounding the amended lands; identify future land use designations and existing land uses within a ½ mile of the subject property that have the same or greater type of proposed future land use designation; data and analysis to support conclusions.
- ☐ Current Survey
- ☐ Environmental Study
- ☐ Traffic Impact Report
- ☐ *** Capacity Analysis-Separate Form
- ☐ Drainage Analysis
- ☐ Historical Report
- ☐ 1 CD of all documents submitted in PDF
- ☐ Other_____

1. Property Address/Location: 2192 Copenhaver Rd (SE Corner of Graham Rd. and Copenhaver Rd.)
2. Property Tax ID(s): 2313-432-0000-000-4
3. Total Acreage: 17.83
4. Existing Future Land Use Designation: RU - Residential Urban, St.Lucie County FLU
5. Existing Zoning Classification: RS-2 - Single Family, St.Lucie County Zoning
6. Proposed Zoning Classification: C-3
7. Other applications being submitted concurrent with this application, if any: Zoning Atlas Map Ammendment
   Annexation has already been applied for
8. Describe the existing uses, improvements and structures on the amendment lands:
   Currently a vacant site being used for agricultural cow grazing, proposing to develop into an RV storage site.
9. Are there any identified or possible historical structures on the amendment lands? No
10. The reason for making this request: Currently the site is Zoned RS2 with a Future Land Use of RU and is part of St.Lucie County. It is being annexed into the City.
11. **Capacity Analysis:**

I. Site Data:

	Existing Use	Future Land Use	Zoning
North	Single Family Residential	Single Family Residential	SLC - RS-2, Single Family, 2 DU/AC
South	Agricultural Land	Mixed Use	SLC - RS-2, Single Family, 2 DU/AC
East	Commercial	Commericial	FORT PIERCE - GENERAL COMMERCIAL
West	Agricultural Land	Residential Urban	SLC - AR-1, AGRICULTURAL RESIDENTIAL, 1 DU/AC

	Future Land Use	Zoning Classification	Maximum Intensity Residential: Dwelling Units per Acre Other: Square Footage	Total Acreage	Flood Zone
Current	RU - Residential Urban	RS-2 Single Family	2 DU/AC	17.83	X
Proposed	GC	C-3	466,005 SF	17.83	N/A

II. Public Facilities Information:

A. Potable Water:	
Average Use	Residential: 100 gallons per day per person (du x 2.6= persons x 100 gpd = demand) Other: 0.125 gallons per day per square foot
Demand Analysis	Maximum
Current Zoning	Total gallons per day 9,100
Proposed Zoning	Total gallons per day 58.251
Change in Demand	**Total gallons per day** 49,151

B. Wastewater:	
Average Use	Residential: 100 gallons per day per person (du x 2.6= persons x 100 gpd = demand) Other: 0.1 gallons per day per square foot
Demand Analysis	Maximum
Current Zoning	Total gallons per day 9,100
Proposed Zoning	Total gallons per day 46,601
Change in Demand	**Total gallons per day** 37,501

C. Parks and Recreation (Residential Classifications Only): N/A
(Du x 2.6 = persons + 44,227 = population /LOS)

Park Type	LOS	Existing Population Park Demand	Proposed Population Park Demand	Change in Demand
Regional	20 acres per 1,000 people	0		
Urban District	5 acres per 1,000 people	0		
Community	2.5 acres per 1,000 people	0		
Neighborhood	1.36 acres per 1,000 people	0		

D. Public Schools (Residential Classifications Only): N/A
Single Family: (du x 0.405 = students/70% K-8/30% High)
Multi-family: (du x 0.207 = students/70% K-8/30% High)

	K-8	High
School Name		
City		
Distance		
Current Zoning Enrollment Demand		
Proposed Zoning Enrollment Demand		
Change in Demand		

E. Solid Waste:
2 yard serves 15 units, 4 yard serves 30 units, 6 yard serves 45 units, 8 yard serves 60 units

Demand Analysis	Maximum
Current Zoning	6 yards
Proposed Zoning	4 yards
Change in Demand	-2 yards

F. Stormwater: Potential increase in volume discharged due to increased impervious coverage, reduced groundwater seepage or loss of surface water storage impacting Adopted LOS of 25-year 3-day storm Pre vs. Post Runoff (Storm sewers to convey 5 year- 1 day storm event; Canals to convey 3 year – 1 day storm event)	
Impact	The impervious area will be increased but the 25 year 3 day will be less in the post development than it is in the pre development

G. Transportation Analysis: Most recent ITE Code for use; HCM Roadway Capacity		
	AADT	**AM/PM Peak Hour Trips**
Demand Analysis	Maximum	Maximum
Current Zoning	331	35
Proposed Zoning	91	5
Change in Demand	Trips -240	Trips -30
Impact to Capacity		

12. Name of Owner(s): R V Development, LLC
Mailing Address: 547 Wash Roberts Lane
City MC Minnville State TN Zip 37110
Phone # 954-214-4553
E-mail:

13. Name of Applicant: Macritchie Storage Ventures, LLC
Mailing Address: 715 5th Avenue, SW, Suite 1700
City Calgary AB T2P 2X6 State Zip
Phone # 403-973-4882 Fax #
E-mail: blokhorst@macritchie.biz

14. Name of Representative: Blaine Bergstresser, P.E.
Mailing Address: 445 24th Street, Suite 200
City Vero Beach State FL Zip 32960
Phone # 772-794-4061 Fax #
E-mail: Blaine.Bergstresser@Kimley-Horn.com

15. Applicant Acknowledgements (Owner's signature must be notarized)

I certify that: (Check One)

☐ I (we) do hereby certify that I (we) own in fee simple the above referenced described property for which a change in Zoning Classification is requested.

☑ I (we) are not the owner of the above described property; however, the owners signature below authorizes the applicants the authority to act as agent for the owner(s) of record.

Applicant's Signature Date

715 5th Avenue, SW, Suite 1700
Address State Calgary AB T2P 2X6 Zip

403-973-4882 blokhorst@macritchie.biz
Phone Fax E-mail Address

16. Property Owners Acknowledgements: - This application will not be considered complete without the signature of all property owners of record, which shall serve as an acknowledgement of the submission of this application for a change in zoning classification. The property owner's signature(s) below shall also authorize the Applicant (if other than the property owner) and/or Agent to act in his/her behalf for the purposes of seeking this change to the City' Land Development Regulations for the property described herein.

954-214-4553
Property Owner's Name (Please Print) Phone

547 Wash Roberts Lane TN 37110
Address State Zip

James A Wynne
Property Owner's Signature Date

STATE OF FLORIDA)
ST LUCIE COUNTY)

The foregoing instrument was acknowledged before me this 31ST day of March, 2021, by James A Wynne who is personally known to me or has produced in person as identification.

Sheila Butcher
Signature of Notary (seal)

SHEILA BUTCHER STATE OF TENNESSEE NOTARY PUBLIC WARREN COUNTY

expires 7.27.21 SB

OFFICE USE:

DATE RECEIVED:_____ Signed:_____

File Number:_____ Check No: _____ Receipt No: _____

TRC Review:_____ Planning Board Review: _____ City Commission: _____

Ordinance No:_____ Date Approved: _____

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT
Florida

Application for Zoning Atlas Map Amendment

Application submission shall include the following:

•**TRC** (*Initial Submission): One (1) original and (8) paper copies of the application and support documents and provide one (1) electronic copy of the application packet as described below.

•**Planning Board**: One (1) original and (16) paper copies of the application and support documents and provide one (1) electronic copy of the application packet as described below.

•**City Commission**: One (1) original and (11) paper copies of the application and support documents and provide one (1) electronic copy of the application packet as described below.

In addition to a complete application, packets shall include:

- ☐ Warranty Deed & Legal Description
- ☐ St. Lucie County Property Record Card
- ☐ Statement of why there is a need for the proposed future land use map amendment and how the amendment will result in an orderly and logical development pattern; statements how amendment(s) are consistent with Comprehensive Plan; how future land use designation is compatible with future land use designations and existing land uses surrounding the amended lands; identify future land use designations and existing land uses within a ½ mile of the subject property that have the same or greater type of proposed future land use designation; data and analysis to support conclusions.
- ☐ Current Survey
- ☐ Environmental Study
- ☐ Traffic Impact Report
- ☐ *** Capacity Analysis-Separate Form
- ☐ Drainage Analysis
- ☐ Historical Report
- ☐ 1 CD of all documents submitted in PDF
- ☐ Other_____

1. Property Address/Location: 2192 Copenhaver Rd (SE Croner of Graham Rd and Copenhaver Rd.)
2. Property Tax ID(s): 2313-432-0000-000-4
3. Total Acreage: 17.83 Acres
4. Existing Future Land Use Designation: RU - Residential Urban
5. Existing Zoning Classification: RS-2 - Single Family, 2du/ac
6. Proposed Zoning Classification: C-3
7. Other applications being submitted concurrent with this application, if any: Future Land Use Amend

8. Describe the existing uses, improvements and structures on the amendment lands: Currently a vacant site, proposing to develop into an RV Storage site.

9. Are there any identified or possible historical structures on the amendment lands? No

10. The reason for making this request: Currently the site is Zoned RS-2 with a Future Land Use of RU and is partof St.Lucie County. It is being annexed into the City.

11. CAPACITY ANALYSIS

I. Site Data:

	Existing Use	Future Land Use	Zoning
North	Single Family Res	Single Family Residential	SLC - RS-2, SINGLE FAMILY, 2 DU/AC
South	Agricultural Land	Mixed Use	SLC- RS-2, SINGLE FAMILY, 2 DU/AC
East	Commercial	Commercial	FORT PIERCE - GENERAL COMMERCIAL
West	Agricultural Land	Residential Urban	SLC - AR-1, AGRICULTURE RESIDENTIAL, 1 DU/AC

	Future Land Use	Zoning Classification	Maximum Intensity Residential: Dwelling Units per Acre Other: Square Footage	Total Acreage	Flood Zone
Current	RU - Residential Urban	RS-2-Single Family	2 DU/AC	17.83	X
Proposed	GC	C-3	466,005 SF	17.83	N/A

II. Public Facilities Information:

A. Potable Water:	
Average Use	Residential: 100 gallons per day per person (du x 2.6 = persons x 100 gpd = demand) Other: 0.125 gallons per day per square foot
Demand Analysis	Maximum
Current Zoning	Total gallons per day 9,100
Proposed Zoning	Total gallons per day 58.251
Change in Demand	**Total gallons per day** 49,151

B. Wastewater:	
Average Use	Residential: 100 gallons per day per person (du x 2.6= persons x 100 gpd = demand) Other: 0.1 gallons per day per square foot
Demand Analysis	Maximum
Current Zoning	Total gallons per day 9,100
Proposed Zoning	Total gallons per day 46,601
Change in Demand	**Total gallons per day** 37,501

C. Parks and Recreation (Residential Classifications Only): N/A
(Du x 2.6 = persons + 44,227 = population /LOS)

Park Type	LOS	Existing Population Park Demand	Proposed Population Park Demand	Change in Demand
Regional	20 acres per 1,000 people			
Urban District	5 acres per 1,000 people			
Community	2.5 acres per 1,000 people			
Neighborhood	1.36 acres per 1,000 people			

D. Public Schools (Residential Classifications Only):
Single Family: (du x 0.405 = students/70% K-8/30% High)
Multi-family: (du x 0.207 = students/70% K-8/30% High) N/A

	K-8	High
School Name		
City		
Distance		
Current Zoning Enrollment Demand		
Proposed Zoning Enrollment Demand		
Change in Demand		

E. Solid Waste:
2 yard serves 15 units, 4 yard serves 30 units, 6 yard serves 45 units, 8 yard serves 60 units

Demand Analysis	Maximum
Current Zoning	6 yards
Proposed Zoning	4 yards
Change in Demand	-2 yards

F. Stormwater:
Potential increase in volume discharged due to increased impervious coverage, reduced groundwater seepage or loss of surface water storage impacting Adopted LOS of 25-year 3-day storm Pre vs. Post Runoff (Storm sewers to convey 5 year- 1 day storm event; Canals to convey 3 year – 1 day storm event)

Impact	The impervious area will be increased but the 25 year 3 day will be less in the post development than it is in the pre development

III. Transportation Analysis

G. Traffic Most recent ITE Code for use; HCM Roadway Capacity		
	AADT	**AM/PM Peak Hour Trips**
Demand Analysis	Maximum	Maximum
Current Zoning	331	35
Proposed Zoning	91	5
Change in Demand	Trips -240	Trips -30
Impact to Capacity		

12. Name of Owner(s): R V Development, LLC
Mailing Address: 547 Wash Roberts Lane
City MC Minnville State TN Zip 37110
Phone # 954-214-4553
E-mail:

13. Name of Applicant: Macritchie Storage Ventures, LLC
Mailing Address: 715 5th Avenue, SW, Suite 1700
City Calgary AB T2P 2X6 State Zip
Phone # 403-973-4882 Fax #
E-mail: blokhorst@macritchie.biz

14. Name of Representative: Blaine Bergstresser, P.E.
Mailing Address: 445 24th Street, Suite 200
City Vero Beach State FL Zip 32960
Phone # 772-794-4061 Fax #
E-mail: Blaine.Bergstresser@Kimley-Horn.com

15. Applicant Acknowledgements (Owner's signature must be notarized)

I certify that: (Check One)

☐ I (we) do hereby certify that I (we) own in fee simple the above referenced described property for which a change in Zoning Classification is requested.

☑ I (we) are not the owner of the above described property; however, the owners signature below authorizes the applicants the authority to act as agent for the owner(s) of record.

Applicant's Signature Date

715 5th Avenue, SW, Suite 1700		Calgary AB T2P 2X6
Address		State Zip
403-973-4882		blokhorst@macritchie.biz
Phone	Fax	E-mail Address

16. Property Owners Acknowledgements: - This application will not be considered complete without the signature of all property owners of record, which shall serve as an acknowledgement of the submission of this application for a change in zoning classification. The property owner's signature below shall also authorize the Applicant (if other than the property owner) and/or Agent to act in his/her behalf for the purposes of seeking this change to the City' Land Development Regulations for the property described herein.

	954-214-4553	
Property Owner's Name (Please Print)	Phone	
547 Wash Roberts Lane	TN	37110
Address	State	Zip
James A Wynne III		
Property Owner's Signature		Date

STATE OF FLORIDA)
ST LUCIE COUNTY)

The foregoing instrument was acknowledged before me this 31ST day of March, 2021, by James A. Wynne who is personally known to me or has produced in person as ide

Sheila Butcher
Signature of Notary

(seal) SHEILA BUTCHER STATE OF TENNESSEE NOTARY PUBLIC WARREN COUNTY

expires 7-27-21 SB

OFFICE USE:

DATE RECEIVED:_____ Signed:_____

File Number:_____ Check No: _____ Receipt No: _____

TRC Review:_____ Planning Board Review: _____ City Commission: _____

Ordinance No:_____ Date Approved: _____

Stanaro & Hurrell
Box 34

JOANNE HOLMAN, CLERK OF THE CIRCUIT COURT - SAINT LUCIE COUNTY
File Number: 2294957 OR BOOK 1828 PAGE 2810
Recorded:10/24/03 16:00

* Doc Assump: $ 0.00
* Doc Tax : $ 12,250.70
* Int Tax : $ 0.00

Prepared by and return to:
Chester B. Griffin, Esquire
Neill Griffin Fowler Tierney Neill & Marquis - Chartered
Post Office Box 1270
Fort Pierce, Florida 34954
Courthouse Box #50
Parcel ID Number: 2324-122-0001-0003 ; 2313-432-0000-000/4
2324-121-0000-000/3 [Space Above for Recording]

WARRANTY DEED

This Warranty Deed made this 24th day of ~~October~~ Sept, 2003, by **CHESTER B. GRIFFIN and RICHARD V. NEILL**, hereinafter called the grantor, to **R. V. DEVELOPMENT, LLC, a Florida limited liability corporation**, hereinafter called the grantee, whose address is: **2560 SE 12th Street, Pompano Beach, Florida 33062.**

Wherever used herein, the terms "grantor" and "grantee" shall include singular and plural, heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations, wherever the context so admits or requires.

WITNESSETH: That the said grantor, for and in consideration of the sum of $10.00, in hand paid by the said grantee, the receipt whereof is hereby acknowledged, does hereby grant, bargain, sell, alien, remise, release, convey and confirm unto the said grantee, and the grantee's heirs and assigns forever, the following described land, situated, lying, and being in St. Lucie County, Florida, to wit:

SEE EXHIBIT "A" ATTACHED HERETO

THE PROPERTY BEING CONVEYED HEREIN DOES NOT CONSTITUTE THE HOMESTEAD PROPERTY OF ANY OF THE GRANTORS.

Subject to restrictions, reservations and easements of record, if any, and taxes subsequent to 2002.

TOGETHER with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

TO HAVE AND TO HOLD, the same in fee simple forever.

AND the Grantor hereby covenants with said Grantee that the Grantor is lawfully seized of said land in fee simple; that the Grantor has good right and lawful authority to sell and convey said land; that the Grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2002; zoning ordinances and rights of way for public roads.

In Witness Whereof, the Grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered
in our presence:

Susan G. Spee
Print Name of Witness: Susan G. Spee
Witness as to Both

Marcia L Heffelfinger
Print Name of Witness: MARCIA L. HEFFELFINGER
Witness as to Both

CHESTER B. GRIFFIN

RICHARD V. NEILL

STATE OF FLORIDA
COUNTY OF ST. LUCIE

The foregoing was acknowledged before me this 24th day of ~~October~~ Sept, 2003, by **CHESTER B. GRIFFIN and RICHARD V. NEILL,** [✓] who are personally known to me or [ ] who produced their drivers license as identification.

MARCIA L. HEFFELFINGER
MY COMMISSION # CC 905632
EXPIRES: April 15, 2004
Bonded Thru Notary Public Underwriters

Marcia L. Heffelfinger
Print Name of Notary: MARCIA L. HEFFELFINGER
NOTARY PUBLIC - STATE OF FLORIDA
MY COMMISSION EXPIRES:

Exhibit "A"

That portion of theWest 1/2 of the SW 1/4 of the SE 1/4, lying West of the Westerly right of way line of I-95, of Section 13, Township 35 South, Range 39 East,lying and being in St. Lucie County, Florida, less and except road rights of way for I-95; Graham Road; Copenhaver Road and less canal rights of way for NSLRDD Canal No. 37 on South line.

AND

The West 3/4 of the North Half of the Northwest Quarter of the Northeast Quarter, Less road and canal rights of way for I-95; White Road, AND ALSO, the Southwest Quarter of the Northwest Quarter of the Northeast Quarter, Less road rights of way for I-95 and Less the South 125 feet of the West 375 feet thereof, all lying and being in Section 24, Township 35 South, Range 39 East, St. Lucie County, Florida.

Kimley»Horn

April 6, 2021

Jennifer Hofmeister, ACIP
Planning Director
City of Ft. Pierce
100 N. U.S. Highway 1
Ft. Pierce, FL 34950
772-467-3737

RE: Ft. Pierce RV Storage- 2192 Copenhaver Road

Dear Ms. Hofmeister,

We are proposing a Future Land Use Map Amendment and Zoning Atlas Map Amendment for parcel # 2313-432-0000-000-4 at 2192 Copenhaver Road. Currently the property is part of unincorporated St. Lucie County and is being annexed into the City of Ft. Pierce. The property has a current zoning of Rs-2 with a future land use of Residential Urban. We are proposing a zoning classification of C-3 with a future land use of General Commercial (GC). The current zoning allows for two(2) units per acre. The property is bordered by I-95 to the east and Graham Road to the North.

The Comprehensive Plan's goal for a General Commercial (GC) future land use is for commercial developments with higher intensity to be fronting major roadway corridors. The property's location along I-95 meets this goal and matches the intensity of the recently constructed Gander RV project east of I-95 that is less than 0.5 miles away.

The change of zoning and future land use will have less of a traffic impact than the existing single-family zoning. It will result in a reduction of 240 daily trips and 30 peak PM trips on the surrounding roadways. The change from residential to commercial will also reduce the demand on the parks and recreation, the public schools, and the solid waste demand. The only proposed increase in demand will be for water and wastewater. However, that is based off the maximum allowable square footage of the rezoning and future land use. Based off the submitted site plan the demand on the water and wastewater will be minimal. A storage facility will have less impact on water and wastewater than single-family homes.

The proposed zoning change from RS-2 to C-3 and the future land use change from Residential Urban to General Commercial meets the Comprehensive Plan's goal of commercial development along the I-95 corridor. The proposed RV Storage site will also have less demand for traffic, parks and recreation, public schools, solid waste, and water/wastewater than the existing single-family classification.

Should you have any additional questions please do not hesitate to contact me at (772) 794-4061 or Blaine.Bergstresser@kimley-horn.com.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.



Blaine Bergstresser P.E

ALTA/NSPS LAND TITLE SURVEY

FOR: R.V. DEVELOPMENT, LLC

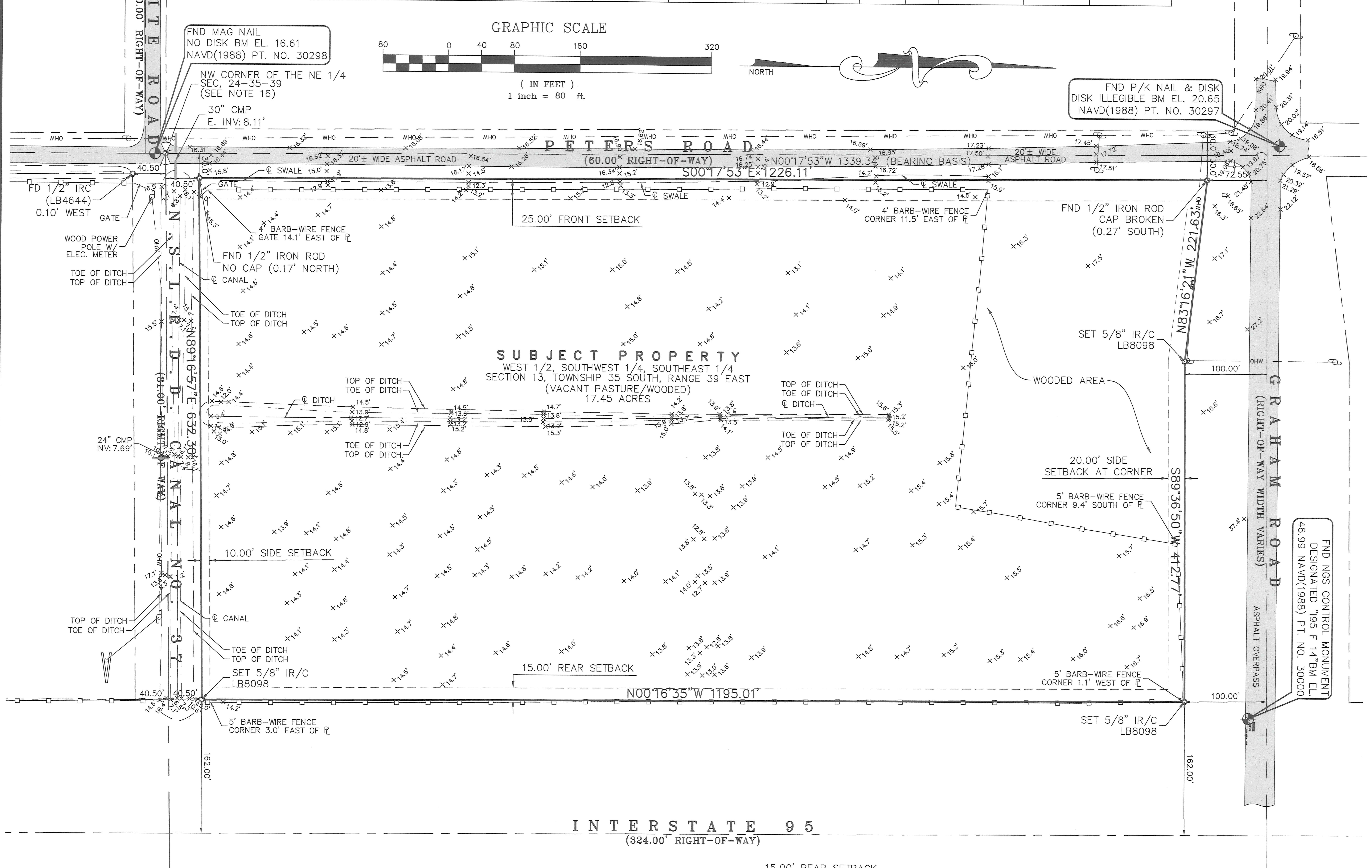
SURVEYORS NOTES AND REPORT:

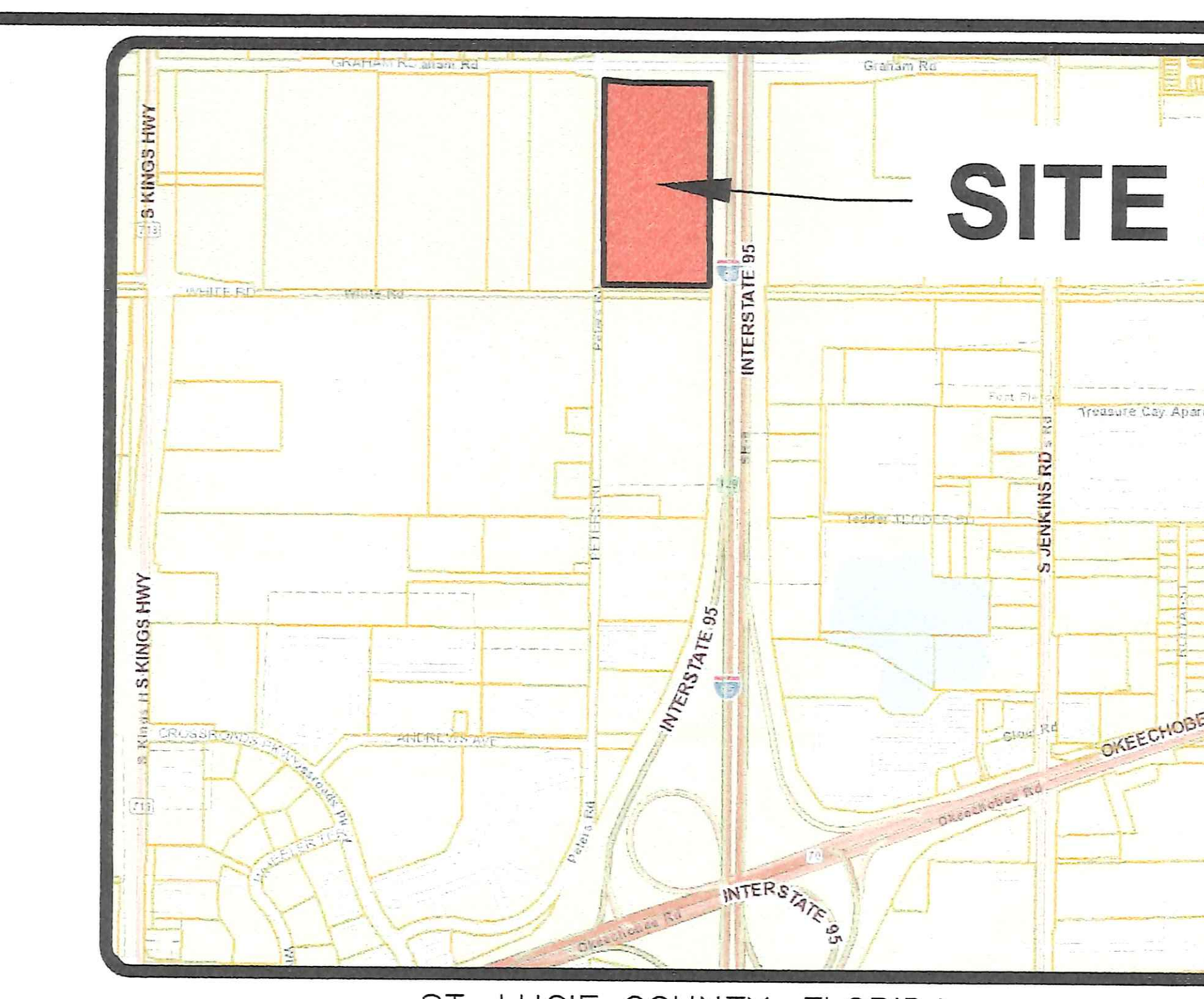
1. REPRODUCTIONS OF THIS MAP ARE NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. THIS SURVEY CANNOT BE TRANSFERRED OR ASSIGNED WITHOUT THE SPECIFIC WRITTEN PERMISSION OF ENGINEERING, DESIGN AND CONSTRUCTION, INC. IT IS A VIOLATION OF CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, TO ALTER THIS SURVEY WITHOUT THE EXPRESS PRIOR WRITTEN CONSENT OF THE SURVEYOR. ADDITIONS AND/OR DELETIONS MADE TO THE FACE OF THIS SURVEY WILL MAKE THIS SURVEY INVALID.
2. THE LAST DATE OF FIELD WORK WAS JANUARY 5, 2021.
3. SITE ADDRESS: 2192 COPENHAVER ROAD, FORT PIERCE, FLORIDA.
4. CURRENT DESCRIPTION(S) SHOWN HEREON PROVIDED BY: THE CLIENT. ALL MATTERS OF RECORD SHOWN HEREON ARE SHOWN IN REFERENCE TO TITLE COMMITMENT PREPARED BY FIRST AMERICAN TITLE INSURANCE COMPANY, COMMITMENT NUMBER 2140-2672737, DATED DECEMBER 4, 2020.
5. PARCELS CONTAIN A TOTAL OF 17.45 ACRES ACRES, MORE OR LESS.
6. THE EXPECTED USE OF THE LAND, AS CLASSIFIED IN THE MINIMUM TECHNICAL STANDARDS (61G17-6 F.A.C.), IS "RESIDENTIAL." THE MINIMUM RELATIVE DISTANCE ACCURACY FOR THIS TYPE OF BOUNDARY SURVEY IS 1 FOOT IN 10,000 FEET. THIS SURVEY EXCEEDS THE REQUIRED DISTANCE ACCURACY.
7. ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1989 (NAVD88) AND ARE BASED ON NGS CONTROL MONUMENT DESIGNATED I95 F 14, HAVING A PUBLISHED ELEVATION OF 46.99 FEET.
8. THIS BOUNDARY SURVEY HAS BEEN REFERENCED TO THE FLORIDA STATE PLANE BOUNDARY SYSTEM-EAST ZONE, NAD 83 (1990).
9. SUB-SURFACE IMPROVEMENTS INCLUDING UNDERGROUND UTILITIES, UTILITY SERVICES, WERE NOT LOCATED AS PART OF THIS SURVEY.
10. REVISIONS SHOWN HEREON DO NOT REPRESENT A "FIELD SURVEY UPDATE" UNLESS OTHERWISE NOTED.
11. BEARINGS SHOWN HERON ARE BASED UPON THE WEST LINE OF THE NORTHEAST 1/4 OF SECTION 24, ST. LUCIE COUNTY, FLORIDA PER THE LINE LABELED HERON AS (BEARING BASIS) AND ALL OTHER BEARINGS ARE RELATIVE THERETO. DISTANCES ARE IN U.S. SURVEY FEET AND DECIMAL PARTS THEREOF.
12. IN SOME INSTANCES, GRAPHIC REPRESENTATIONS AND SYMBOLS SHOWN HAVE BEEN EXAGGERATED TO MORE CLEARLY ILLUSTRATE THE RELATIONSHIP BETWEEN PHYSICAL IMPROVEMENTS AND/OR LOT LINES. THE DIMENSIONS SHOWN SHALL CONTROL THE LOCATION, OF THE IMPROVEMENTS, OVER THE SCALED POSITIONS.
13. THE OWNERSHIP OF PERIMETER FENCES, WALLS, HEDGES AND LANDSCAPING, IF ANY, SHOWN HEREON ARE NOT KNOWN AND ARE NOT LISTED AS ENCROACHMENTS. THEIR RELATIVE LOCATION IS SHOWN IN RELATION TO THE BOUNDARY LINES SHOWN.
14. THE SURVEY MAP SHOWN HEREON DOES NOT NECESSARILY CONTAIN ALL OF THE INFORMATION OBTAINED OR DEVELOPED BY THE UNDERSIGNED SURVEYOR IN HIS FIELD WORK, OFFICE WORK OR RESEARCH.
15. THE PROPERTY WHICH IS THE SUBJECT OF THIS SURVEY APPEARS TO BE SITUATE IN AN AREA OF MINIMAL FLOOD HAZARD AT THIS TIME PURSUANT TO F.E.M.A. FIRM NUMBER 12111C0167J, HAVING AN EFFECTIVE DATE OF FEBRUARY 16, 2012. FOR APPROXIMATE DELINEATION OF THE FLOOD ZONE LIMITS, REFER TO AFOREMENTIONED FIRM PANELS.
16. AT THE LOCATION SHOWN AS THE NORTHWEST CORNER OF THE NORTHEAST 1/4 OF THE SECTION HAS EVIDENCE OF PREVIOUS CONTROL/OCCUPATION. A #5 IRON ROD HAS BEEN RESET IN IT'S PLACE.

SYMBOL & ABBREVIATION LEGEND:

- AIR RELEASE VALVE
- AL — ARC LENGTH
- ASPH — ASPHALT
- BFP — BACK FLOW PREVENTER
- BENCHMARK (BM)
- BIKE RACK
- CATV — CABLE RISER
- (C) — CALCULATED
- CATCH BASIN
- ℄ — CENTERLINE
- CCR — CERTIFIED CORNER RECORD
- CLF — CHAIN LINK FENCE
- CHD. — CHORD
- CO — CLEAN OUT
- COMM RISER — COMMUNICATION RISER
- CONC — CONCRETE
- CONCRETE LIGHT POST
- CM — CONCRETE MONUMENT
- CPP — CONCRETE POWER POLE (CPP)
- CONCRETE POWER POLE W/STREET LIGHT
- CONCRETE SIGNAL LIGHT POLE
- CMP — CORRUGATED METAL PIPE
- CURB INLET
- DECORATIVE LIGHT POST
- (D) — DEED
- D.B. — DEED BOOK
- ø — DIAMETER (DIA.)
- DRAINAGE MANHOLE
- DIP — DUCTILE IRON PIPE
- E — EAST/EASTING
- EOW — EDGE OF WATER
- EB — ELECTRIC BOX
- EHH — ELECTRIC HAND HOLE (EHH)
- EM — ELECTRIC METER
- ELEC. PANEL — ELECTRICAL PANEL
- EL./ELEV. — ELEVATION
- FEMA — FEDERAL EMERGENCY MANAGEMENT AGENCY
- F.O. — FIBER OPTIC
- FOHH — FIBER OPTIC HAND HOLE
- FIBER OPTIC MARKER
- FIBER RISER — FIBER OPTIC RISER
- (M) — FIELD MEASURED
- F.F.E. — FINISHED FLOOR ELEVATION
- FDOT — FLORIDA DEPARTMENT OF TRANSPORTATION
- FPL — FLORIDA POWER AND LIGHT
- FT — FOOT
- FM — FORCE MAIN
- FND — FOUND
- FPL MANHOLE
- SQ FT. — SQUARE FEET
- GAS — GAS VALVE
- GIS — GEOGRAPHIC INFORMATION SYSTEMS
- GND — GROUND
- GROUND LIGHT
- GUY WIRE ANCHOR
- HANDICAP
- HDPE — HIGH DENSITY POLYETHYLENE PIPE
- HWF — HOG WIRE FENCE
- HYD — HYDRANT
- IN — INCH
- INV — INVERT
- IP — IRON PIPE
- IR — IRON ROD
- IR/C — IRON ROD AND CAP
- IRRIGATION CONTROL VALVE
- L — LENGTH
- LIGHT POST
- MAG/D — MAG NAIL MAG BRAND NAIL
- MAILBOX
- M.C. — MARTIN COUNTY
- MHWL — MEAN HIGH WATER LINE
- MLWL — MEAN LOWER WATER LINE
- METAL LIGHT POST
- MP — METAL PIPE
- MONITORING WELL
- MON — MONUMENT
- NGVD29 — NATIONAL GEODETIC VERTICAL DATUM OF 1929
- N/D — NON DESCRIPT NAIL AND DISK
- N.R. — NON RADIAL
- NAVD88 — NORTH AMERICAN VERTICAL DATUM OF 1988
- N — NORTH OR NORTHING
- No. — NUMBER
- O.R.B. — OFFICIAL RECORDS BOOK
- OHW — OVER HEAD WIRES
- PG — PAGE
- PCN — PARCEL CONTROL NUMBER
- PK NAIL — PARKER-KALON NAIL
- PK/D — PARKER-KALON NAIL & DISK
- PCP — PERMANENT CONTROL POINT
- PRM — PERMANENT REFERENCE MONUMENT
- P.B. — PLAT BOOK
- (P) — PLAT DATA
- P.O.B. — POINT OF BEGINNING
- P.O.C. — POINT OF COMMENCEMENT
- P.C.C. — POINT OF COMPOUND CURVE
- P.C. — POINT OF CURVATURE
- P.T. — POINT OF TANGENCY
- P.O.T. — POINT OF TERMINUS
- PVC — POLYVINYL CHLORIDE
- PSL — PORT SAINT LUCIE, FLORIDA
- PLS — PROFESSIONAL LAND SURVEYOR
- R — RADIUS
- RGE — RANGE
- RTK — REAL TIME KINEMATIC
- RWV — RECLAIMED WATER VALVE
- RLS — REGISTERED LAND SURVEYOR
- RCP — REINFORCED CONCRETE PIPE
- R/W — RIGHT-OF-WAY
- R/C — ROD AND CAP
- SANITARY MANHOLE
- SV — SANITARY VALVE
- SEC — SECTION
- PROPERTY CORNER
- RIGHT-OF-WAY CONTROL
- SIGN
- S — SOUTH
- SPIGOT
- SPRINKLER VALVE
- S.L.C. — ST. LUCIE COUNTY
- STA — STATION
- STORMWATER DRAINAGE MANHOLE
- STREET SIGN
- TELE RISER — TELEPHONE RISER BOX
- TOE — TOE OF SLOPE
- TOB — TOP OF BANK/BERM
- T.O.N. — TOP OF NUT
- X 0.0 — TOPOGRAPHIC DATA (SOFT SURFACE)
- X 0.00 — TOPOGRAPHIC DATA (HARD SURFACE)
- TWNSHP — TOWNSHIP
- TRAFFIC HANDHOLD
- TSCB — TRAFFIC SIGNAL CONTROL BOX
- TYP — TYPICAL
- UNK — UNKNOWN
- UNK HH — UNKNOWN HANDHOLD
- RISER BOX — UNKNOWN RISER BOX
- UNKNOWN TYPE MANHOLE
- VCP — VITRIFIED CLAY PIPE
- WM — WATER METER
- WATER SERVICE METER (WM)
- WV — WATER VALVE (WV)
- W — WEST
- WF — WOOD FENCE
- WOOD POLE STREET LIGHT
- WOOD POWER POLE

Zoning District		Maximum Gross Density (Du/Ac)	Minimum Lot Size (sf)	Minimum Lot Width	Minimum Road Frontage	Minimum Yard				Max. Hht.	Max. Lot Coverage by Buildings
						Front	Rear	Side	Side @ corner		
RS-2	RESIDENTIAL, SINGLE-FAMILY - 2	2.00	15,000	100.00	30.00	25(I)	15(g)(I)	10(I)	20(I)	35.00	20%





ST. LUCIE COUNTY, FLORIDA
VICINITY MAP
NO SCALE

LEGAL DESCRIPTION:

THAT PORTION OF THE WEST 1/2 OF THE SW 1/4 OF THE SE 1/4, LYING WEST OF THE WESTERLY RIGHT OF WAY LINE OF I-95, OF SECTION 13, TOWNSHIP 35 SOUTH, RANGE 39 EAST, LYING AND BEING IN ST. LUCIE COUNTY, FLORIDA, LESS AND EXCEPT ROAD RIGHTS OF WAY FOR I-95; GRAHAM ROAD; COPENHAVER ROAD AND LESS CANAL RIGHTS OF WAY FOR NSLRDD CANAL NO. 37 ON SOUTH LINE.

CONTAINING 17.45 ACRES ACRES, MORE OR LESS.

SCHEDULE B-II ITEMS

TITLE COMMITMENT PREPARED BY
FIRST AMERICAN TITLE INSURANCE COMPANY
COMMITMENT # 2140-2672737
COMMITMENT DATE: DECEMBER 4, 2020, AT 8:00 AM

1. DEFECTS, LIENS, ENCUMBRANCES, ADVERSE CLAIMS OR OTHER MATTERS, IF ANY, CREATED, FIRST APPEARING IN THE PUBLIC RECORDS OR ATTACHING SUBSEQUENT TO THE EFFECTIVE DATE BUT PRIOR TO THE DATE THE PROPOSED INSURED ACQUIRES FOR VALUE OF RECORD THE ESTATE OR INTEREST OR MORTGAGE THEREON COVERED BY THIS COMMITMENT.
   AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
2. ANY RIGHTS, INTERESTS, OR CLAIMS OF PARTIES IN POSSESSION OF THE LAND NOT SHOWN BY THE PUBLIC RECORDS.
   AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
3. ANY ENCROACHMENT, ENCUMBRANCE, VIOLATION, VARIATION OR ADVERSE CIRCUMSTANCE AFFECTING THE TITLE THAT WOULD BE DISCLOSED BY AN ACCURATE AND COMPLETE LAND SURVEY OF THE LAND.
   SHOWN HEREON.
4. ANY LIEN, FOR SERVICES, LABOR, OR MATERIALS IN CONNECTION WITH IMPROVEMENTS, REPAIRS OR RENOVATIONS PROVIDED BEFORE, ON, OR AFTER DATE OF POLICY, NOT SHOWN BY THE PUBLIC RECORDS.
   AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
5. ANY DISPUTE AS TO THE BOUNDARIES CAUSED BY A CHANGE IN THE LOCATION OF ANY WATER BODY WITHIN OR ADJACENT TO THE LAND PRIOR TO DATE OF POLICY, AND ANY ADVERSE CLAIM TO ALL OR PART OF THE LAND THAT IS, AT DATE OF POLICY, OR WAS PREVIOUSLY UNDER WATER.
   AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
6. TAXES OR SPECIAL ASSESSMENTS NOT SHOWN AS LIENS IN THE PUBLIC RECORDS OR IN THE RECORDS OF THE LOCAL TAX COLLECTING AUTHORITY, AT DATE OF POLICY.
   AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
7. ANY MINERALS OR MINERAL RIGHTS LEASED, GRANTED OR RETAINED BY CURRENT OR PRIOR OWNERS.
   AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
8. TAXES AND ASSESSMENTS FOR THE YEAR 2021 AND SUBSEQUENT YEARS, WHICH ARE NOT YET DUE AND PAYABLE.
   AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
9. EASEMENT GRANTED TO FLORIDA POWER & LIGHT COMPANY RECORDED IN BOOK 452, PAGE 1600 AND IN BOOK 680, PAGE 1696.
   EASEMENTS DO NOT AFFECT SUBJECT PROPERTY.
10. NOTICE OF CONSENT ORDER RECORDED IN BOOK 3738, PAGE 2484.
    AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
11. TERMS AND CONDITIONS OF ANY EXISTING UNRECORDED LEASE(S), AND ALL RIGHTS OF LESSEE(S) AND ANY PARTIES CLAIMING THROUGH THE LESSEE(S) UNDER THE LEASE(S).
    AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
12. ANY MAP OR DIAGRAM NOW OR PREVIOUSLY PROVIDED IS FOR REFERENCE AND INFORMATIONAL PURPOSES ONLY. THE COMPANY AND ITS AGENTS EXPRESSLY DISCLAIM ANY LIABILITY FOR ALLEGED LOSS OR DAMAGE WHICH MAY RESULT FROM RELIANCE UPON SUCH MAP(S) OR DIAGRAM(S). THE FOREGOING DOES NOT LIMIT ANY EXPRESS COVERAGES PROVIDED BY THE TERMS AND PROVISIONS OF ANY TITLE INSURANCE POLICY FOR MATTERS WHICH MIGHT BE REVEALED BY A SURVEY PREPARED AND CERTIFIED IN ACCORD WITH FLORIDA STATUTES SECTION 472.027.
    NOT A SURVEY MATTER.

ALTA CERTIFICATION:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 3, 4, 8, 11, 13, 14, 15, 16, & 19 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON JANUARY 5, 2021.

[Signature] MICHAEL T. OWEN License Number 5556 STATE OF FLORIDA Professional Surveyor and Mapper [Seal] 1-8-2021

MICHAEL T. OWEN PROFESSIONAL SURVEYOR AND MAPPER
FLORIDA REGISTRATION #5556

SIGNATURE DATE:

EDC
ENGINEERS ⊕ SURVEYORS
ENVIRONMENTAL
10250 VILLAGE PARKWAY
UNIT 201
PORT ST. LUCIE, FL 34987
☎ 772-462-2455
www.edc-inc.com
F.B.P.E. CERTIFICATE OF AUTHORIZATION 9935
L.B. CERTIFICATE OF AUTHORIZATION 8098

SPT	MTO	RH	20-426 ALTA.dwg	LAYOUT1	AS SHOWN	December 23, 2020
DRAWN BY	CHECKED BY	FIELD CREW	FILENAME	LAYOUT	SCALE	DATE

REVISION COMMENTS
DATE

ALTA/NSPS LAND TITLE SURVEY
FOR: R.V. DEVELOPMENT
THE W. 1/2 OF THE S.E. 1/4 OF THE S.W. 1/4 OF SEC. 13, TWNSHP. 35 SOUTH, RGE. 39 EAST
ST. LUCIE COUNTY, FLORIDA

EDC
10250 VILLAGE PARKWAY
UNIT 201
PORT ST. LUCIE, FL 34987
☎ 772-462-2455

20-426

1 OF 1

Z:\EDC-2020\20-426 - MacRitchie - 2192 Copenhaver Rd FPI\SURVEY\Dwg - PDF\Survey\20-426 ALTA.dwg, 1/8/2021 9:25 AM
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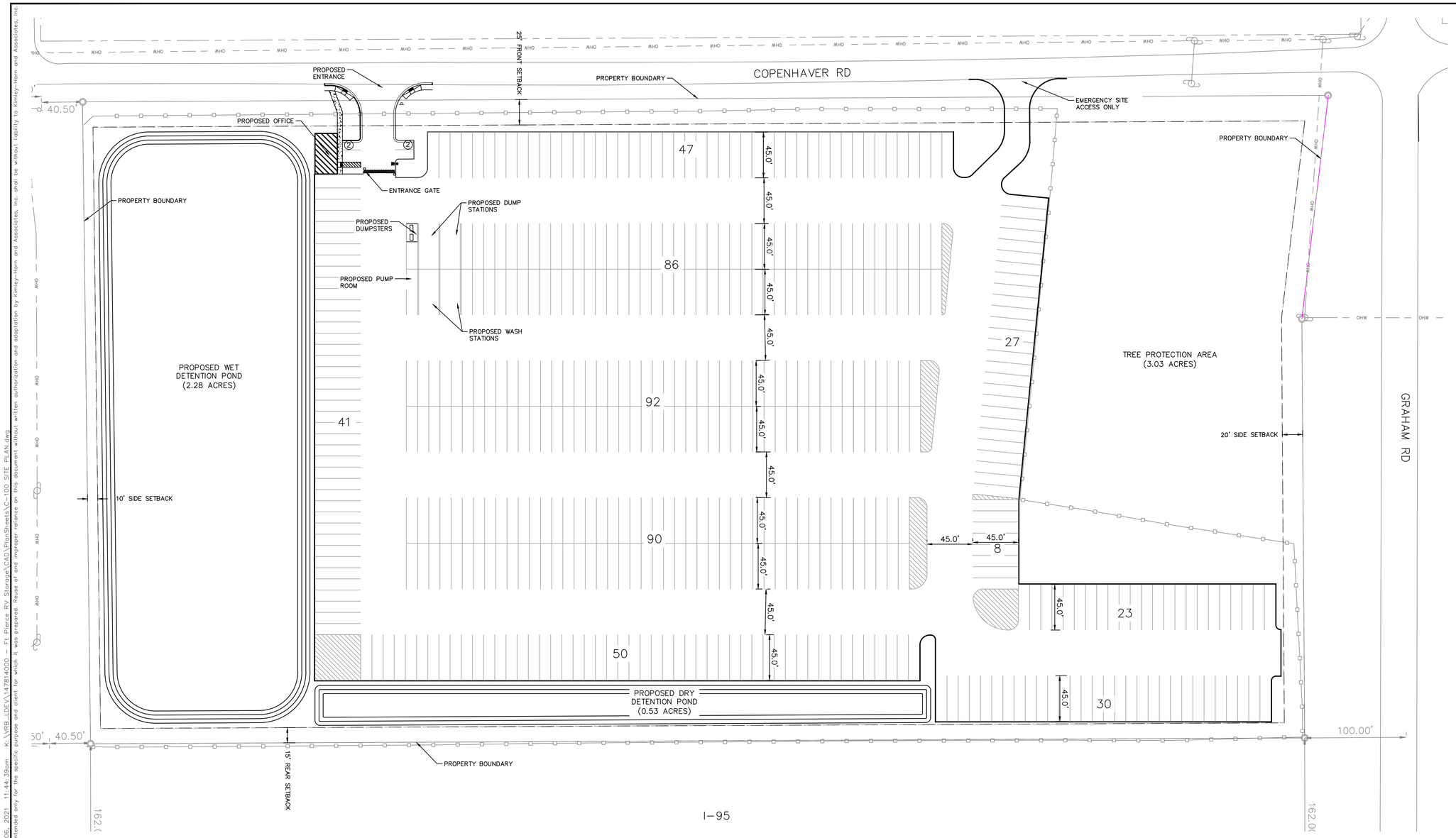


DEVELOPMENT DATA			
TAX PARCEL ID NO.	2313-432-0000-000-4		
ADDRESS	2192 COPENHAVER ROAD, FORT PIERCE, FL		
PROJECT USE	RV STORAGE FACILITY		
PROJECT ZONING	C-3		
RV SPACES PROPOSED	494 SPACES		
STANDARD SPACES PROPOSED	3 SPACES		
ACCESSIBLE SPACES PROPOSED	1 SPACE		
TOTAL AREA OF TRACT	760,033 SF	17.45 AC	100%
AREA OF PROPOSED BUILDINGS	880 SF	0.02 AC	0.12%
AREA OF PROPOSED PAVEMENT	414,267 SF	9.51 AC	54.51%
TOTAL PROPOSED IMPERVIOUS AREA	572,597 SF	12.34 AC	70.72%
AREA OF PROPOSED OPEN SPACE	222,374 SF	5.11 AC	29.26%
AREA OF PROPOSED POND	122,404 SF	2.81 AC	16.11%
OPEN SPACE REQUIRED	145,133 SF	3.33 AC	15%

OWNER
R V DEVELOPMENT, LLC
547 WASH ROBERTS LANE
MC MINNVILLE, TN, 37110

DEVELOPER
BEN LOKHORST
MACRITCHIE STORAGE VENTURES, LLC
715 5TH AVENUE, SW, SUITE 1700
CALGARY AB T2P 2X6
PHONE: 403-973-4882

FLOOD ZONE
PROPERTY LIES WITHIN FLOOD ZONE "X", ACCORDING TO THE F.I.R.M. MAP NO. 12111C0167J, DATE 02/16/2012.

LEGAL DESCRIPTION
THAT PORTION OF THE WEST 1/2 OF THE SW 1/4 OF THE SE 1/4 , LYING WEST OF THE WESTERLY RIGHT OF WAY LINE OF I-95, OF SECTION 13, TOWNSHIP 35 SOUTH, RANGE 39 EAST, LYING AND BEING IN ST. LUCIE COUNTY, FLORIDA, LESS AND EXCEPT ROAD RIGHTS OF WAY FOR I-95; GRAHAM ROAD; COPENHAVER ROAD AND LESS CANAL RIGHTS OF WAY FOR NSLRDD CANAL NO. 37 ON SOUTH LINE

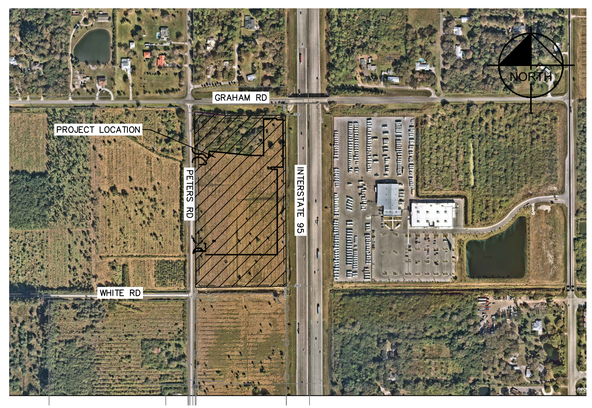
CONTAINING 17.45 ACRES ACRES, MORE OR LESS.

VERTICAL DATUM
THE ELEVATIONS SHOWN HERON ARE BASED ON THE NORTH AMERICAN DATUM OF 1988.

GENERAL NOTES:

1. HAZARDOUS WASTE DISPOSAL SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS
2. ALL LANDSCAPE AREAS ABUTTING VEHICULAR USE AREAS SHALL BE CURBED OR PROTECTED BY CURB STOPS.
3. ALL BUILDING, PARKING AND ACCESS AREAS SHALL DOCUMENT COMPLIANCE WITH THE REQUIREMENTS OF THE AMERICAN DISABILITIES ACT PRIOR TO THE ISSUANCE OF BUILDING PERMIT.
4. SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE IN THE PLACE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
5. LANDSCAPING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 153 OF THE LANDSCAPE CODE OF THE CITY OF PORT ST. LUCIE.
6. NO LANDSCAPING OTHER THAN GRASSES SHALL BE LOCATED WITHIN 10' OF A CITY UTILITY LINE OR APPURTENANCE. ALL OTHER UTILITIES SHALL BE A MINIMUM OF 5' HORIZONTAL SEPARATION FROM CITY UTILITY MAINS FOR PARALLEL INSTALLATIONS AND A MINIMUM 18" BELOW CITY MAINS. (ALL MEASUREMENTS ARE TAKEN FROM OUTSIDE TO OUTSIDE)
7. NO LANDSCAPING SHALL BE PLACED IN A MANNER THAT WOULD CREATE CONFLICTS WITH THE INTENDED OPERATION AND MAINTENANCE OF ANY EXISTING UTILITY.
8. THIS APPLICATION IS NOT VESTED FOR ANY MUNICIPAL FEES. ALL FEES ARE CALCULATED AT TIME OF PAYMENT. THIS INCLUDES SPECIFICALLY IMPACT FEES, UPLAND PRESERVE FEES AND ANY ADMINISTRATIVE REVIEW FEES FOR CITY DEPARTMENTS. NO FEES ARE VESTED BASED ON DATE OF CITY COUNCIL APPROVAL.
9. SIGNS ARE NOT PART OF THIS REVIEW AND SHALL BE PERMITTED SEPARATELY FROM THE APPLICATION. (SEE CHAPTER 155 (SIGN CODE) CITY OF PORT ST. LUCIE LAND DEVELOPMENT REGULATIONS.)
10. THE PROPERTY OWNER, CONTRACTOR, AND AUTHORIZED REPRESENTATIVES SHALL PROVIDE PICKUP, REMOVAL, AND DISPOSAL OF LITTER WITHIN THE PROJECT LIMITS AND SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE AREA FROM THE EDGE OF PAVEMENT TO THE PROPERTY LINE WITH IN THE CITY'S RIGHT-OF-WAY IN ACCORDANCE WITH CITY CODE, SECTION 41.08 (G)
11. FENCE POSTS SHOULD AVOID UTILITY SERVICE LINES AT ALL TIMES.
12. UTILITY SERVICES CAN BE CONNECTED ONLY AFTER THE MAINS ARE INSTALLED AND TURNED OVER TO THE CITY.

BUILDING SETBACKS	
	SETBACK
NORTH	20 FT
SOUTH	10 FT
EAST	15 FT
WEST	25 FT



LOCATION MAP
SCALE: 1"=1000'

No.	REVISIONS	DATE	BY

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LICENSED PROFESSIONAL ENGINEER ROBERT BLAINE BERGSTRESSER LICENSE No. 84566 STATE OF FLORIDA PROFESSIONAL ENGINEER DATE: 10/1/2021

KHA PROJECT 147814000
DATE 04/06/2021
SCALE AS SHOWN
DESIGNED BY BRB
DRAWN BY TJE
CHECKED BY BRB

SITE PLAN

FORT PIERCE RV STORAGE

FT. PIERCE FL

SHEET NUMBER
C-100

Posted By:Enright, Tyler Sheet Set:FT PIERCE RV STORAGE Layout:C-100 SITE PLAN April 06, 2021 11:44:39am K:\VRB_LDEV\147814000 - Ft Pierce RV Storage\CAD\PlanSheets\C-100 SITE PLAN.dwg
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Natural Resource Assessment

RV Storage Ft. Pierce

St. Lucie County, Florida

Prepared for:
Macritchie Storage Ventures, LLC
715 5th Avenue, SW, Suite 1700
Calgary AB T2P 2X6, Canada

147814000
March 2021
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445 24th Street, Suite 200
Vero Beach, FL 32960

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APPENDIX D – SHPO FLORIDA MASTER SITE FILE REPORT

Natural Resource Assessment
Technical Memorandum

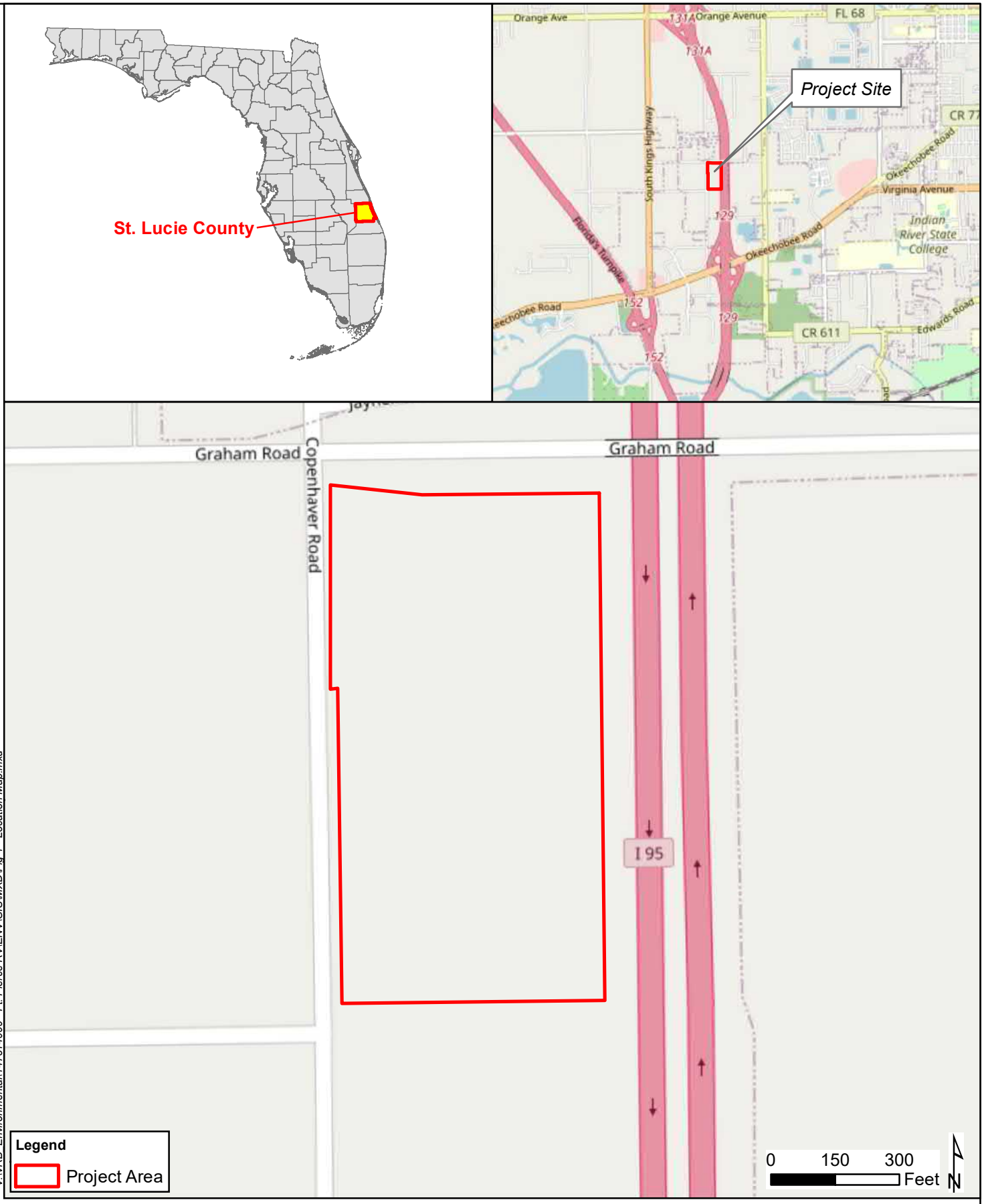
RV Storage Ft. Pierce
St. Lucie County, Florida

1.0 INTRODUCTION

The following technical memorandum summarizes a review of readily available documentation and the results of field reconnaissance conducted at the project site. The purpose of this Natural Resource Assessment was to characterize the existing conditions of the above-referenced project site relative to threatened and endangered species and their habitat, ecological communities, land cover and vegetation, wetlands, soils, hydrology, archaeological and historical resources, and floodplains.

The scope of this assessment included field reconnaissance to determine habitat present and to determine environmental regulatory constraints for this project site.

The project site is approximately 17 acres and is located in Fort Pierce, near the southeast corner of Graham Road and Copenhaver Road in Section 13, Township 35 South, Range 39 East, St. Lucie County, Florida. A location map is attached as ***Figure 1***. A portion of the U.S. Geological Service (USGS) 7.5-Minute Providence, Florida quadrangle map depicting the location of the project site is attached as ***Figure 2***. Based on review of the USGS quadrangle map, elevations on the project site are approximately 10 feet.



V:\VRB Environmental\147814000 - Ft. Pierce RV\ENV\GIS\MXD\Fig 1 - Location Map.mxd

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Project Location Map

Ft. Pierce RV Natural Resource Assessment
St. Lucie County, Florida

1 inch = 300 feet	PROJECT NUMBER: 147814000	FEBRUARY 2021	FIGURE 1



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Source: ESRI, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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USGS 7.5 Minute Quadrangle Map

Ft. Pierce RV Natural Resource Assessment
St. Lucie County, Florida

1 inch = 1,000 feet	PROJECT NUMBER: 147814000	FEBRUARY 2021	FIGURE 2

2.0 METHODOLOGY

The methodology for this assessment included a review of the following resources:

- Florida Natural Areas Inventory (FNAI) Biodiversity Matrix (http://www.fnai.org/biointro.cfm)
- Various Geographic Information System (GIS) data layers from the U.S. Fish and Wildlife Service (USFWS), U.S. Geological Survey (USGS), Florida Fish and Wildlife Conservation Commission (FWC) [(https://public.myfwc.com/FWRI/EagleNests/nestlocator.aspx)]
- USFWS IPaC data [(https://ecos.fws.gov/ipac/)]
- U.S. Department of Agriculture (USDA)/Natural Resources Conservation Service (NRCS) Soil Survey of St. Lucie County, Florida (http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx)
- State Historic Preservation Officer (SHPO), Florida Master Site File (http://www.flheritage.com/)
- USFWS National Wetlands Inventory (NWI) Maps (Web-based maps available from http://www.fws.gov/wetlands/Data/mapper.html)
- Federal Emergency Management Agency (FEMA) Digital Flood Insurance Rate Maps (FIRM; Web-based maps available from http://msc.fema.gov/)
- United States Geological Survey (USGS) Quadrangle Maps, Land Boundary Information System (LABINS; http://www.labins.org)
- South Florida Water Management District Interactive GIS Map (SFWMD.gov)
- Florida Department of Environmental Protection (FDEP) MapDirect GIS (https://floridadep.gov)
- St. Lucie County Land Development Code

On March 10, 2021 a field review of the project limits was conducted by environmental scientists to document the existing habitat conditions and determine potential wildlife utilization. The field review also included a 15% gopher tortoise survey.

3.0 EXISTING CONDITIONS

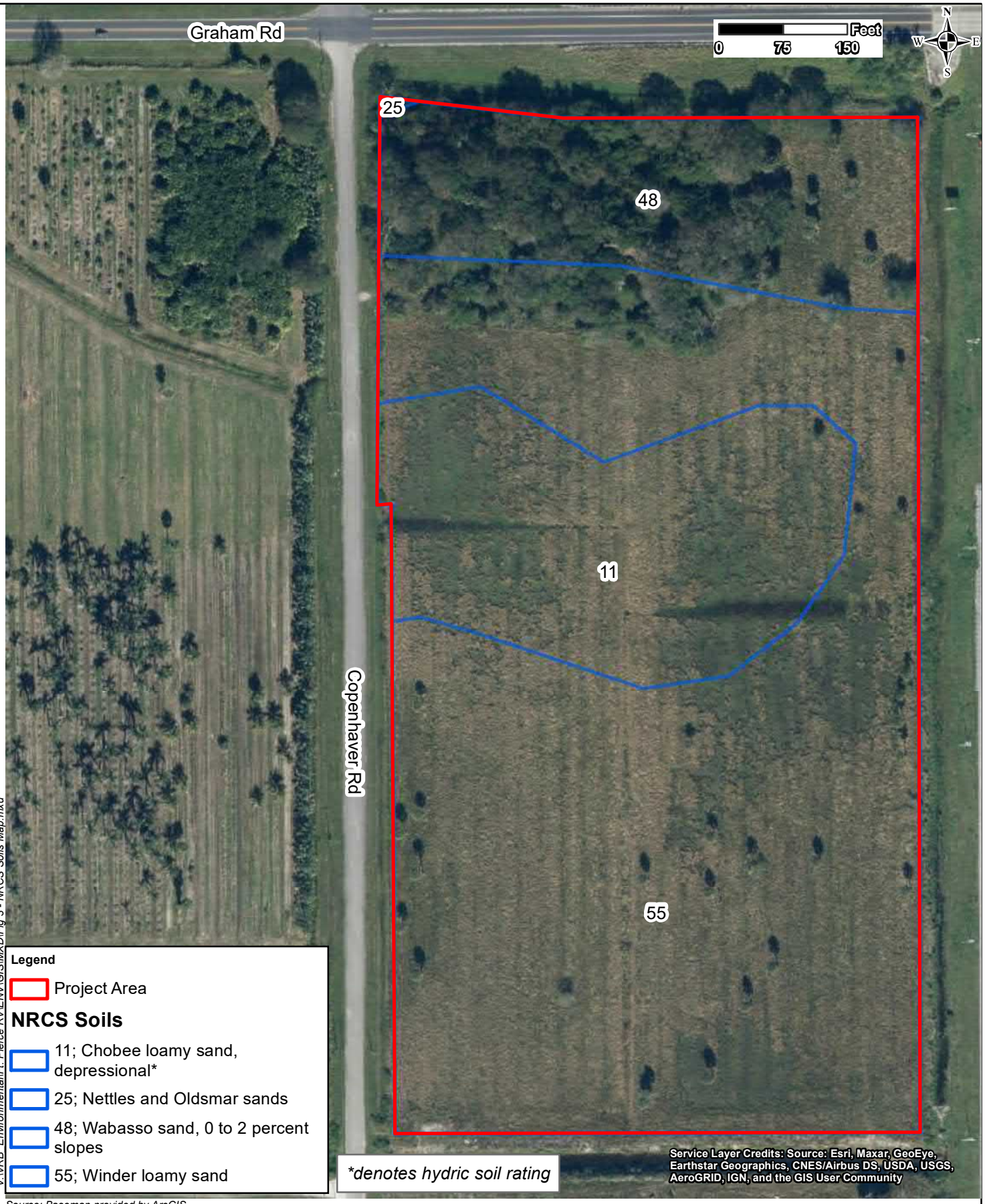
3.1 SOILS

The USDA/NRCS *Soil Survey of St. Lucie County, Florida,* maps the following soil on the property: (11) Chobee Loamy Sand, (25) Nettles and Oldsmar Sands, (48) Wabasso Sand, and (55) Winder Loamy Sand. A copy of the digital USDA/NRCS soils mapping data is illustrated in ***Figure 3*** and details regarding each soil are provided in ***Table 1***.

Table 1
NRCS Soils Identified Within Study Area

Soil ID Number[1]	Soil Name	Occurrence[2]	Characteristics	Drainage Class	Groundwater Depth	Hydric, Hydric Inclusions, or Non-hydric
11	Chobee Loamy Sand	Depressional areas	Moderately rapid to very slow permeability	Very poorly drained	Above surface to 10 inches	Hydric
25	Nettles and Oldsmar Sands	Broad flats and depressional areas	Very slow to slow	Poorly drained	10-40 inches	Non-hydric
48	Wabasso Sand	Flatwood areas	Rapid to moderately slow permeability	Poorly drained	10-40 inches	Non-hydric
55	Winder Loamy Sand	Depressional areas	Rapid to slow permeability	Poorly drained	10-40 inches	Non-hydric

[1] Reference: https://www.nrcs.usda.gov/Internet/FSE_MANUSCRIPTS/florida/FL111/0/lucie.pdf
[2] Reference: https://soilseries.sc.egov.usda.gov/OSD_Docs/A/ANKONA.html



V:\VRB Environmental\Ft. Pierce RV\ENV\GIS\MXD\Fig 3 - NRCS Soils Map.mxd

Source: Basemap provided by ArcGIS

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NRCS Soils Map

Ft. Pierce RV Natural Resource Assessment
St. Lucie County, Florida

1 inch = 150 feet	PROJECT NUMBER: 147814000	FEBRUARY 2021	FIGURE 3

3.2 LAND COVER AND NATURAL COMMUNITIES

Vegetative communities on the project site were identified through pedestrian transects and aerial photograph interpretation. Vegetative communities were classified using the *Florida Land Use, Cover, and Forms Classification System* (FLUCFCS, Florida Department of Transportation, 1999). A FLUCFCS map of the project site is attached as ***Figure 4***. The description of the upland land cover provided below characterizes dominant vegetation observed along random pedestrian transects and does not represent an all-inclusive vegetative inventory.

FLUCFCS 211 – IMPROVED PASTURES

This cover type encompassed approximately 13.25 acres of the project site and was primarily made up of smut grass (*Sporobolus indicus*) with scattered cabbage palm (*Sabal palmetto*), laurel oak (*Quercus laurifolia*), live oak (*Quercus virginiana*), and Brazilian pepper (*Schinus terebinthifolius*).

FLUCFCS 420 – UPLAND HARDWOOD FOREST

This cover type encompassed approximately 2.74 acres of the project site. The canopy was primarily made up of mature live oak and laurel oak, and cabbage palm. The understory included Brazilian pepper, saw palmetto (*Serenoa repens*), lantana (*Lantana camara*), and clover (*Trifolium* spp.).

3.3 WETLANDS, TIDAL WATERS AND OTHER SURFACE WATERS

The presence of wetlands was evaluated based on the Florida unified wetland delineation methodologies in accordance with Chapter 62-340, Florida Administrative Code (FAC) and Chapter 62-331 FAC under the State 404 Program. These methods consider prevalence of wetland vegetation, hydric soil indicators, and wetland hydrology. Surface waters include both natural and manmade bodies of water, such as streams, lakes, ponds, canals, and ditches. Based on initial database review and subsequent assessment of the vegetative communities, hydrologic conditions, and soils observed during on-site reconnaissance, there appears to be approximately 0.96 acres of wetlands and surface waters on-site.

FLUCFCS 510 – STREAMS AND WATERWAYS

This cover type encompassed approximately 0.14 acres of the project site and encompasses a surface water through the central portion of the property, which does not appear to connect to any other waterways. This surface water feature appears to have been historically excavated.

FLUCFCS 643 – WET PRAIRIES

This cover type encompassed approximately 0.82 acres of the project site and was primarily made up of smartweed (*Persicaria setacea*), hydrocotyl (*Hydrocotyle vulgaris*), torpedo grass (*Panicum repens*), jointed spikerush (*Eleocharis interstincta*), pickerel weed (*Pontederia cordata*), beaksedge (*Rhynchospora spp*.), and occasional smut grass.

3.4 WILDLIFE UTILIZATION

Wildlife observed included the mourning dove (*Zenaida macroura*), black vulture (*Coragyps atratus*), great blue heron (*Ardea herodias*), and monarch butterfly (*Danaus plexippus*).

3.5 ENDANGERED, THREATENED, AND SPECIES OF SPECIAL CONCERN

A list of protected species potentially occurring within the project vicinity was generated using the databases described in Section 2.0 Methodology. Information regarding previously documented occurrences, on-site observations conducted as part of this assessment, and likelihood of occurrence is summarized below.

FNAI – The FNAI report includes data from FNAI Matrix Unit 65769 (***Appendix A***). Based on the FNAI report, there are no documented listed species within the vicinity of the site. FNAI lists wood storks (*Mycteria Americana*) as likely to occur within the matrix unit.

FWC – There are no known wading bird colonies on, or within one mile of, the project site. Additionally, no bald eagles (*Haliaeetus leucocephalus*) or evidence of bald eagles were observed on the project site and there are no documented occurrences of bald eagles or their nests within one mile of the project site. No further coordination is anticipated regarding these species.

USFWS Consultation Areas – The project site is in the below-listed USFWS Consultation Areas.

- Audubon's crested caracara
- Florida scrub-jay
- Everglade snail kite
- Grasshopper sparrow

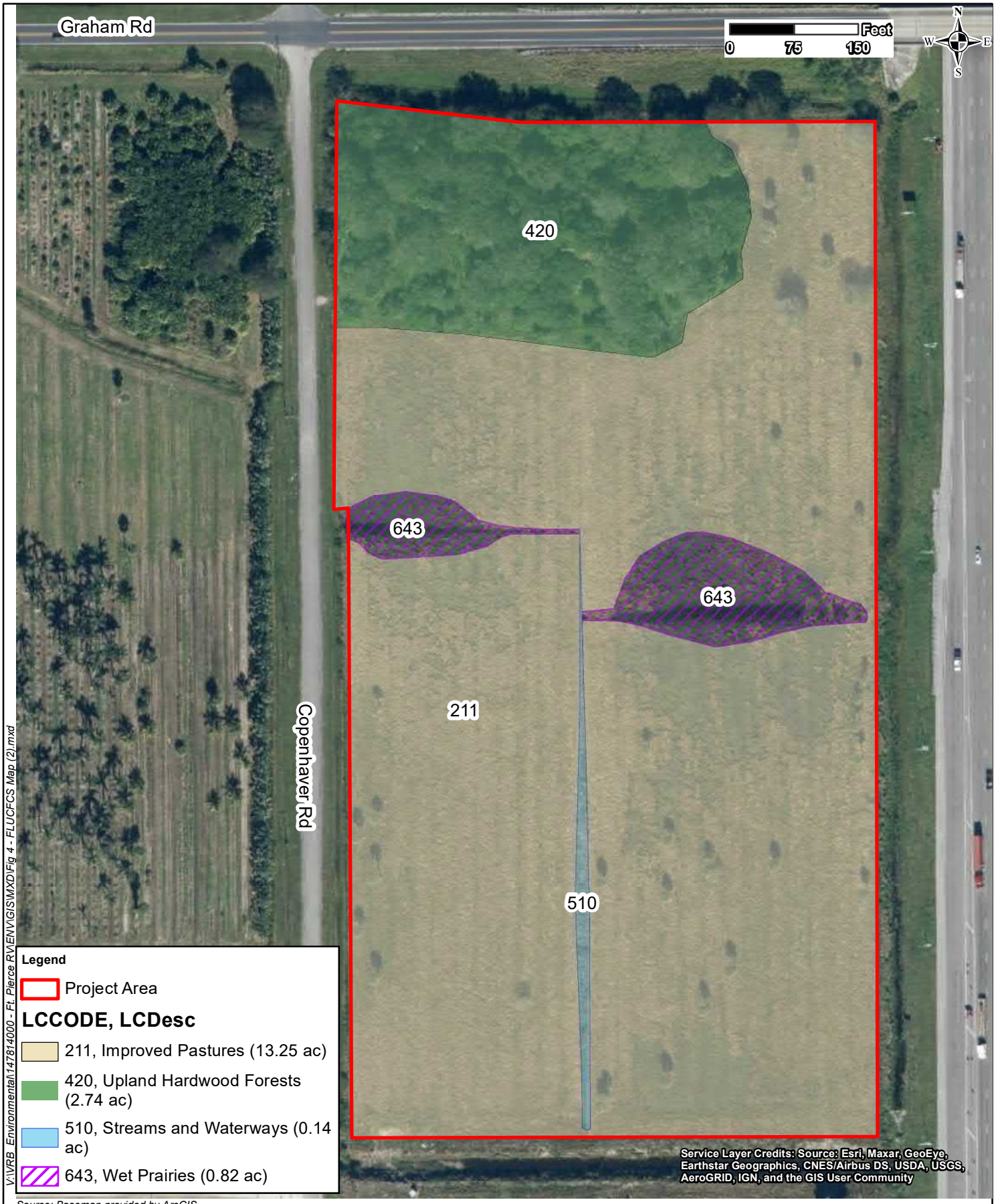
Habitat for the Florida scrub-jay, everglade snail kite, and grasshopper sparrow does not occur on-site, thus, no further coordination regarding these species is anticipated. Suitable habitat for the Audubon's crested caracara is present on-site, and the species is discussed further below.

USFWS Wood Stork Colonies – The project site is within the core foraging area (CFA) of two known wood stork colonies, North Fork St. Lucie River and Cypress Creek Bluefield Road. The CFA for an active wood stork colony is defined as a circular area within an 18.6-mile radius from the wood stork colony. Potential wood stork foraging habitat exists within the wetlands and surface water on-site. More on this is discussed below.

USFWS IPaC Data – The IPaC Trust Resources includes historical data in their reporting, which results in some species findings that do not reflect current on-site conditions. The following species are listed in the data and have suitable habitat within the project site: wood stork and Audubon's crested caracara. Species listed in the data that do not have suitable habitat on-site include: Everglade snail kite, Florida grasshopper sparrow, whooping crane, American alligator, hawksbill sea turtle, leatherback sea turtle, loggerhead sea turtle, Miami blue butterfly, Florida panther, and southeastern beach mouse. This dataset confirmed that the project site is not within any USFWS designated Critical Habitat (***Appendix A***).

Based on field reconnaissance and database reviews, a list of state and federally listed species potentially occurring on, or within the immediate vicinity of, the project site has been compiled. ***Table 2*** lists species that may occur and their likelihood of occurrence. Likelihood of occurrence is based on actual observation of the species, signs of the species (burrows, tracks, scat, etc.), observance of suitable habitat, or documented occurrences of the species within various databases.

Table 2						
Potential Listed Species Occurrence						
Common Name		Scientific Name	Federal Status	State Status	Comments	Likelihood of Occurrence
Birds	Wood Stork	*Mycteria americana*	T	FT	Observed On-site: No Observed in Proximity: No Habitat Present: Yes Habitat Type: Foraging	Moderate
	Audubon's Crested Caracara	*Polyborus plancus audubonii*	T	FT	Observed On-site: No Observed in Proximity: No Habitat Present: Yes Habitat Type: Nesting/foraging	Moderate
	Burrowing Owl	*Athene cunicularia*	NL	ST	Observed On-site: No Observed in Proximity: No Habitat Present: Marginal Habitat Type: Burrowing/foraging	Low
	Southeastern American Kestrel	*Falco sparverius paulus*	NL	ST	Observed On-site: No Observed in Proximity: No Habitat Present: Yes Habitat Type: Nesting/foraging	Moderate
	Florida Sandhill Crane	*Grus canadensis pratensis*	NL	ST	Observed On-site: No Observed in Proximity: No Habitat Present: Yes Habitat Type: Nesting/foraging	Moderate
Reptiles	Eastern Indigo Snake	*Drymarchon corais couperi*	T	FT	Observed On-site: No Observed in Proximity: No Habitat Present: Marginal Habitat Type: foraging	Low
	Gopher Tortoise	*Gopherus polyphemus*	C	ST	Observed On-site: No Observed in Proximity: No Habitat Present: Yes Habitat Type: Burrowing/foraging	Moderate
Federal Status: E = Endangered; T = Threatened; T(S/A) = Threatened due to Similarity of Appearance; C = Candidate Species; NL = Not Listed. State Status: FE- Federally Endangered; FT – Federally Threatened; FT(S/A) – Federally Threatened due to Similarity of Appearance; ST- State Threatened; SSC = Species of Special Concern. Note: Coordination is not required with FWC for Federally listed species.						



V:\VRB Environmental\147814000 - Ft. Pierce RV\ENV\GIS\MXD\Fig 4 - FLUCFCS Map (2).mxd

Source: Basemap provided by ArcGIS

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FLUCFCS Map

Ft. Pierce RV Natural Resource Assessment
St. Lucie County, Florida

1 inch = 150 feet	PROJECT NUMBER: 147814000	MARCH 2021	FIGURE 4

Based on the database review and field reconnaissance, the following species could occur on-site or require additional evaluation, survey, or permitting.

Eastern Indigo Snake

The eastern indigo snake occurs in a range of habitats, including pine flatwoods, scrubby flatwoods, high pine, dry prairie, tropical hardwood hammocks, edges of freshwater marshes, agricultural fields, coastal dunes, and human-altered habitats. The snake requires large tracts of land to survive and often winters in burrows of gopher tortoises, armadillos, cotton rats, and land crabs (in coastal areas) and forages in hydric habitats. No individuals were observed during field reconnaissance; however, marginal habitat for the eastern indigo snake does exist on-site. Thus, per the Eastern Indigo Snake Effect Determination Key (August 13, 2013), if the USFWS *Standard Protection Measures for the Eastern Indigo Snake* (***Appendix B***) are implemented during construction, impacts to the Eastern indigo snake are not anticipated to occur, and no further action is anticipated.

Audubon's Crested Caracara

The Audubon's crested caracara inhabits wet prairies with cabbage palms and may also be found in wooded areas with saw palmetto, pastures and farmlands, cypress, and scrub oaks. During field reconnaissance, potential nesting and foraging habitat for the caracara was observed on-site. Thus, consultation with USFWS and a crested caracara survey is recommended to determine the presence or absence of a nest onsite. Surveys must adhere to the *USFWS Crested Caracara Draft Survey Protocol Additional Guidance (2016-2017 Breeding Season)* (***Appendix C***) and begin no later than January 10 and continue through April 30.

Wood Stork

The wood stork inhabits both fresh and saltwater habitats, such as fresh and saltwater marshes, tidal flats, wet prairies, cypress swamps, and drainage features. As part of the Effect Determination Key for the Wood Stork in South Florida, 18.6-mile core foraging area (CFA) buffers were established around known wood stork colonies. These buffers monitor proposed impacts to suitable foraging habitats (SFH) for the wood stork, which include shallow-water areas containing relatively open (<25% aquatic vegetation) water with a permanent or seasonal water depth between 2 and 15 inches. No wood storks were observed during field reconnaissance; however, the surface water and wetlands on-site

provides SFH for wood storks. Therefore, if impacts to the surface water or wetlands are anticipated, coordination regarding the wood stork will be required with the SFWMD and a wood stork foraging assessment may be required. Further discussion is provided in Section 4.3 below.

Burrowing Owl

The Florida burrowing owl is a small, ground-dwelling owl that is boldly spotted and bared with brown and white. They often dig their own burrow and line the entrance with decorative materials prior to laying eggs at the bottom of the burrow. They inhabit high, sparsely vegetated, sandy ground and can be found in ruderal areas such as pastures, airports, ball fields, and road rights-of-ways. Burrowing owl habitat on-site is marginal, and no individuals or burrows were observed. No further action is required regarding this species.

Southeast American Kestrel

The southeast American Kestrel's range is limited by nest and perch site availability, foraging habitat and food supply all near one another. Kestrels utilize a wide variety of habitats and nest in open pine habitats, woodland edges, prairies, and pastures throughout much of Florida. Nest sites are in tall dead trees or utility poles generally with an unobstructed view of surroundings. No kestrels were observed within the project site, however, habitat is present on-site. A kestrel survey for the Florida subspecies (*Falco sparverius paulus*) is recommended before development occurs, which will need to be conducted during non-migratory periods when the northern kestrel would not be present. That survey can be conducted between May – August.

Sandhill Crane

The Florida sandhill crane is listed as threatened by the FWC and inhabits prairies, freshwater marshes, and pasture lands. This crane is known to forage within agricultural areas like feed lots and crop fields, golf courses and other open lawns. Potential foraging habitat occurs on-site; however, nesting habitat was marginal on-site and no sandhill cranes were observed. If Florida sandhill cranes are not nesting on-site, no further action is required.

Gopher Tortoise

The gopher tortoise is a burrowing tortoise that inhabits upland habitats such as pine flatwoods, xeric oak hammocks, and open sandy pastures, but can also often occur in disturbed areas. A 15% gopher tortoise burrow survey was conducted, and no gopher tortoises or their burrows were observed. Potential habitat for the gopher tortoise does occur on-site, and thus a 100% gopher tortoise survey will need to be completed no more than 90 days prior to construction. Impacts to or within 25 feet of gopher tortoise burrows require a relocation permit from FWC. This permit authorizes gopher tortoises to be relocated by an authorized agent off the development property to a protected certified recipient area.

Listed Plant Species

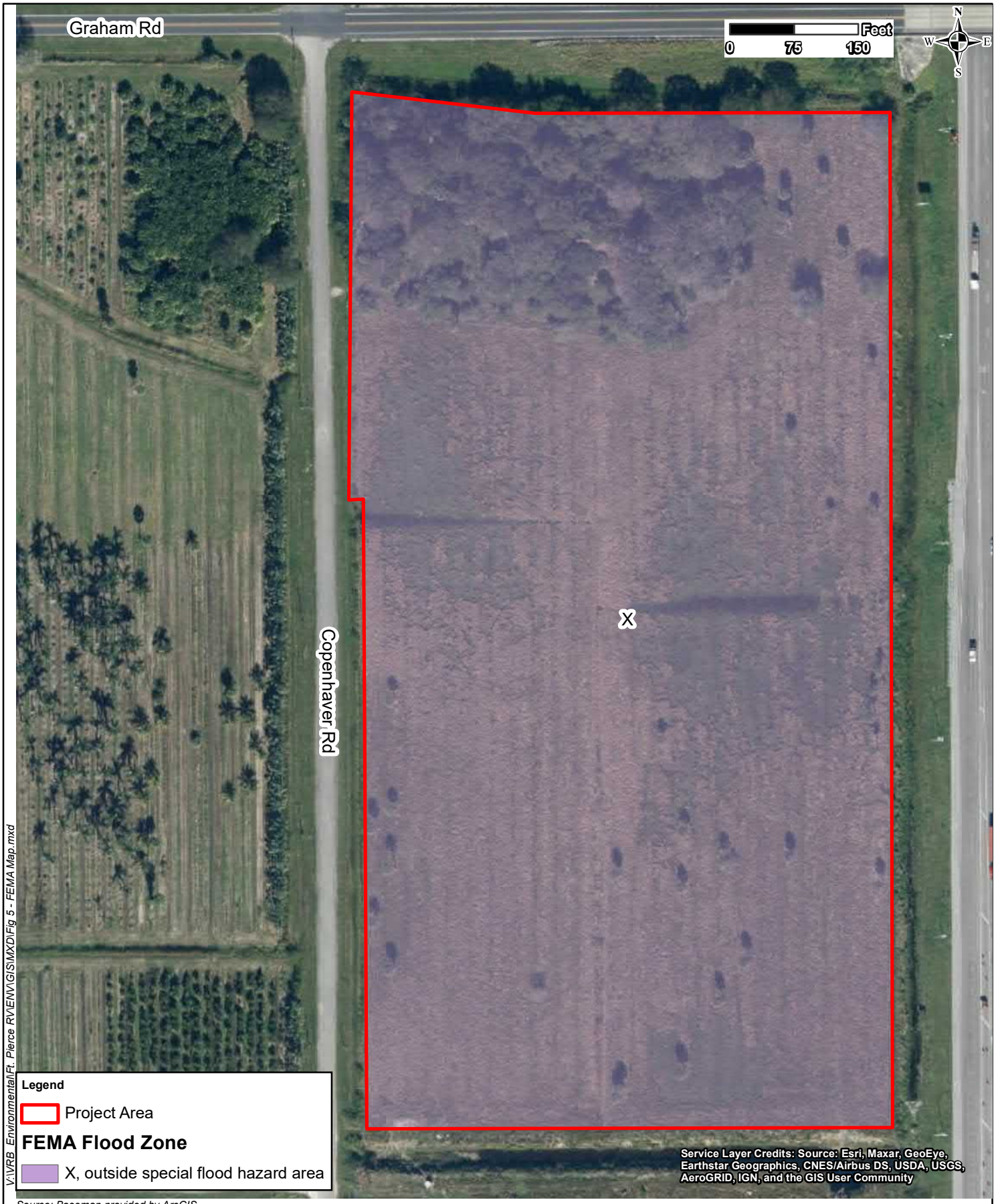
The Florida Department of Agriculture and Consumer Service's *Notes on Florida's Threatened and Endangered Plants*, and Richard Wunderlin's *Guide to Vascular Plants of Florida*, were consulted to assess habitat requirements for listed plant species. Although seven state-listed plants were noted by FNAI as possibly occurring in this area, none were observed during field reconnaissance. No further action is required regarding listed plant species.

3.6 HISTORIC AND ARCHAEOLOGICAL RESOURCES

Kimley-Horn requested an inquiry from the Department of State, State Historic Preservation Officer (SHPO) Division of Historical Resources Florida Master Site File (FMSF) regarding the presence of known historical or archaeological findings on the project site, or in the immediate vicinity (***Appendix D***). The FMSF lists two standing structures and one resource group within a 0.25-mile radius of the project area, however, none are within the project site, thus no historic or archaeological resources are anticipated to be impacted by development of the project site.

3.7 FLOODPLAIN INFORMATION

The FEMA FIRM panel [12061C0166E] indicates that the entirety of the project site is located within Flood Zone X – defined as areas determined to be outside of the special flood hazard area. A FEMA flood zone map is attached as ***Figure 5***. No required floodplain compensation is anticipated.



V:\IVRB Environmental\Ft. Pierce RV\ENV\GIS\MXD\Fig 5 - FEMA Map.mxd

Source: Basemap provided by ArcGIS

Kimley»Horn

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445 24th Street, Suite 200, Vero Beach, FL 32960
Phone (772) 794-4100
www.kimley-horn.com

FEMA Flood Zone Map

Ft. Pierce RV Natural Resource Assessment
St. Lucie County, Florida

1 inch = 150 feet	PROJECT NUMBER: 147814000	FEBRUARY 2021	FIGURE 5

4.0 REGULATORY REQUIREMENTS

4.1 LOCAL ENVIRONMENTAL ORDINANCES

Based on a review of the municipal codes and ordinances for St. Lucie County, existing permitting requirements and regulations of state and federal regulatory agencies must be followed and applied. Additionally, per the Land Development Code of St. Lucie County, vegetation removal activities of native species in unincorporated areas requires a Vegetation Removal Permit from the Public Works Director. A tree survey will be required to determine status of trees on-site.

The St. Lucie County Land Development Code also gives St. Lucie County regulatory authority over all wetlands, however this authority is carried out via coordination with state and federal agencies. Thus, a state or federal permit required for construction, dredging, filling, or alteration within jurisdictional wetlands will supersede the county permitting mechanism. Mitigation must demonstrate no net losses due to impacts of these areas. Additionally, a minimum 10-foot buffer zone of native upland transitional vegetation is required around any isolated wetlands preserved on development sites.

4.2 STATE REGULATORY REQUIREMENTS

Environmental Resource Permit

An Environmental Resource Permit (ERP) will be required for the project if impacts to the on-site surface water or wetlands are proposed. The ERP evaluates the project impacts to wetlands, surface waters, and stormwater management design including floodplain impacts. An ERP may also be required from the SFWMD if any stormwater improvements are proposed as part of this project. Drainage design and stormwater management is not discussed further in this report as the scope was limited to natural resources.

It should be noted that the FDEP has assumed administration of the Clean Water Act (CWA) Section 404 program. FDEP will process Section 404 permits within State-assumed Waters of the US (WOTUS) rather than the US Army Corps of Engineers (USACE). Based on a preliminary review, there do not appear to be WOTUS present on-site, and therefore, authorization under Section 404 should not be required.

Listed Species Permitting

The following state-listed species may potentially occur on-site:

- Gopher tortoise
- Southeastern American kestrel

Gopher Tortoise

Based on the presence of potential gopher tortoise habitat on-site, a 100% gopher tortoise burrow survey is required to be conducted within 90 days prior to construction commencement, and a gopher tortoise relocation permit will be required from FWC if any relocation is required.

Southeastern American kestrel

Based on the on-site habitat suitable for the southeastern American kestrel, a kestrel survey is recommended for the Florida subspecies prior to site development. This will need to be conducted between May and August.

4.3 FEDERAL REGULATORY REQUIREMENTS

Section 404 Dredge and Fill Permitting

Please refer to State Regulatory Requirements above. Based on a preliminary review, WOTUS do not appear to be present on-site, and therefore, authorization under Section 404 is not required. This project is not within 300 ft. of a USACE retained water, so permitting under Section 404 can be authorized under the DEP State 404 Program.

Federal Listed Species

The following federally listed species were observed or potentially occur on-site:

- Wood Stork
- Eastern indigo snake
- Audubon's crested caracara

Wood Stork

The proposed project occurs within the CFA of two wood stork colonies. Foraging habitat is present in the surface water through the central portion of the property. In accordance with USFWS's 2010 South Florida Programmatic Concurrence and Key, a wood stork foraging analysis may be required if impacts to SFH are proposed. Mitigation requirements will be based on this analysis.

Eastern Indigo Snake

Per the Eastern Indigo Snake Effect Determination Key (August 13, 2013), if the USFWS Standard Protection Measures for the Eastern Indigo Snake (***Appendix B***) are implemented during construction, impacts to the Eastern indigo snake are not anticipated to occur, and no further action is anticipated to be required.

Audubon's Crested Caracara

Potential caracara habitat exists on-site. Therefore, consultation with USFWS and a crested caracara survey is recommendedto determine the presence or absence of a nest on-site. Surveys must adhere to the USFWS Crested Caracara Draft Survey Protocol Additional Guidance (2016-2017 Breeding Season) and begin no later than January 10 and continue through April 30.

5.0 SUMMARY AND RECOMMENDATIONS

- A tree survey and Vegetation Removal Permit from St. Lucie County may be required for tree removal prior to development.
- An ERP from SFWMD will be required to authorize stormwater improvements and any wetland or surface water impacts as part of site development. Based on the FMSF, there were no historic or archaeological resources within the study area.
- The site does not appear to contain jurisdictional WOTUS, so authorization under Section 404 will not be required through a State 404 Program permit.
- The following state and federally listed species were observed or potentially occur on-site: Audubon's crested caracara, wood stork, gopher tortoise, Southeastern American kestrel, and Eastern indigo snake. Additional surveys and permits may be required for the crested caracara, gopher tortoise, kestrel, and wood stork. Implementation of the Standard Protection Measures is recommended for the eastern indigo snake.

- The project site is not within a FEMA designated floodplain, and additional engineering analysis regarding the floodplain is not anticipated. This topic will be evaluated during civil engineering design and permitting with the SFWMD.

APPENDIX A
FNAI BIODIVERSITY MATRIX
IPAC SPECIES LIST

1018 Thomasville Road
Suite 200-C
Tallahassee, FL 32303
850-224-8207
850-681-9364 fax
www.fnai.org

Florida Natural Areas Inventory

Biodiversity Matrix Query Results

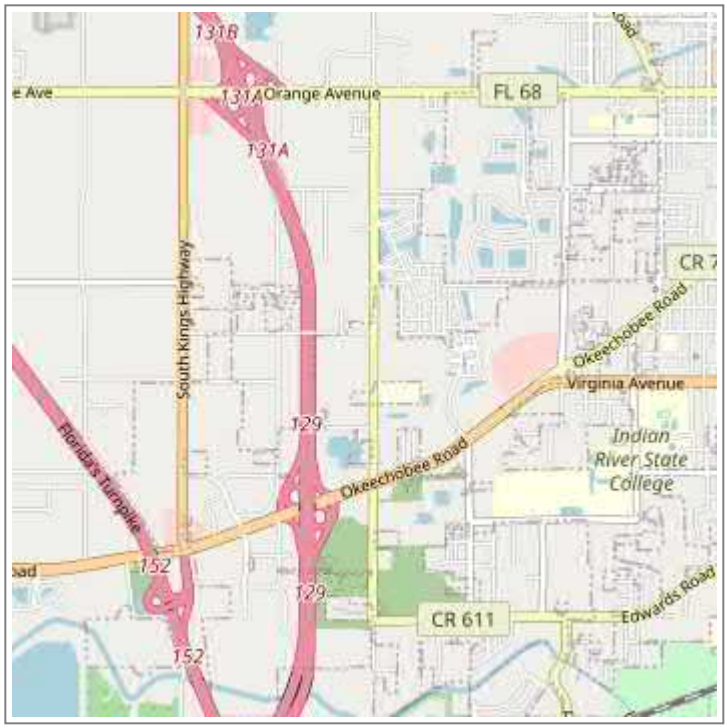
UNOFFICIAL REPORT

Created 3/15/2021

(Contact the FNAI Data Services Coordinator at 850.224.8207 or kbrinegar@fnai.fsu.edu for information on an official Standard Data Report)

NOTE: The Biodiversity Matrix includes only rare species and natural communities tracked by FNAI.

Report for 1 Matrix Unit: 65769



Descriptions

DOCUMENTED - There is a documented occurrence in the FNAI database of the species or community within this Matrix Unit.

DOCUMENTED-HISTORIC - There is a documented occurrence in the FNAI database of the species or community within this Matrix Unit; however the occurrence has not been observed/reported within the last twenty years.

LIKELY - The species or community is *known* to occur in this vicinity, and is considered likely within this Matrix Unit because:

1. documented occurrence overlaps this and adjacent Matrix Units, but the documentation isn't precise enough to indicate which of those Units the species or community is actually located in; *or*
2. there is a documented occurrence in the vicinity and there is suitable habitat for that species or community within this Matrix Unit.

POTENTIAL - This Matrix Unit lies within the known or predicted range of the species or community based on expert knowledge and environmental variables such as climate, soils, topography, and landcover.

Matrix Unit ID: 65769

0 **Documented** Elements Found

0 **Documented-Historic** Elements Found

2 **Likely** Elements Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
Mesic flatwoods	G4	S4	N	N
Mycteria americana Wood Stork	G4	S2	LT	FT

Matrix Unit ID: 65769

13 **Potential** Elements for Matrix Unit 65769

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing

Athene cunicularia floridana Florida Burrowing Owl	G4T3	S3	N	SSC
Coelorachis tuberculosa Piedmont Jointgrass	G3	S3	N	T
Conradina grandiflora Large-flowered Rosemary	G3	S3	N	T
Drymarchon couperi Eastern Indigo Snake	G3	S3	LT	FT
Eudocimus albus White Ibis	G5	S4	N	SSC
Glandularia maritima Coastal Vervain	G3	S3	N	E
Gopherus polyphemus Gopher Tortoise	G3	S3	C	ST
Lechea cernua Nodding Pinweed	G3	S3	N	T
Linum carteri var. smallii Small's Flax	G2T2	S2	N	E
Nemastylis floridana Celestial Lily	G2	S2	N	E
Pteroglossaspis ecristata Giant Orchid	G2G3	S2	N	T
Sceloporus woodi Florida Scrub Lizard	G2G3	S2S3	N	N
Sciurus niger shermani Sherman's Fox Squirrel	G5T3	S3	N	SSC

Disclaimer

The data maintained by the Florida Natural Areas Inventory represent the single most comprehensive source of information available on the locations of rare species and other significant ecological resources statewide. However, the data are not always based on comprehensive or site-specific field surveys. Therefore, this information should not be regarded as a final statement on the biological resources of the site being considered, nor should it be substituted for on-site surveys. FNAI shall not be held liable for the accuracy and completeness of these data, or opinions or conclusions drawn from these data. FNAI is not inviting reliance on these data. Inventory data are designed for the purposes of conservation planning and scientific research and are not intended for use as the primary criteria for regulatory decisions.

Unofficial Report

These results are considered unofficial. FNAI offers a Standard Data Request option for those needing certifiable data.

United States Department of the Interior

FISH AND WILDLIFE SERVICE
South Florida Ecological Services Field Office
1339 20th Street
Vero Beach, FL 32960-3559
Phone: (772) 562-3909 Fax: (772) 562-4288
http://fws.gov/verobeach

In Reply Refer To: March 18, 2021
Consultation Code: 04EF2000-2021-SLI-0510
Event Code: 04EF2000-2021-E-01258
Project Name: Ft. Pierce RV

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

South Florida Ecological Services Field Office
1339 20th Street
Vero Beach, FL 32960-3559
(772) 562-3909

Project Summary

Consultation Code: 04EF2000-2021-SLI-0510
Event Code: 04EF2000-2021-E-01258
Project Name: Ft. Pierce RV
Project Type: DEVELOPMENT
Project Description: NRA
Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@27.42731565,-80.38981320093714,14z



Counties: St. Lucie County, Florida

Endangered Species Act Species

There is a total of 16 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Florida Panther *Puma (=Felis) concolor coryi* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1763	Endangered
Puma (=mountain Lion) *Puma (=Felis) concolor (all subsp. except coryi)* Population: FL No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6049	Similarity of Appearance (Threatened)
Southeastern Beach Mouse *Peromyscus polionotus niveiventris* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/3951	Threatened

Birds

NAME	STATUS
Audubon's Crested Caracara *Polyborus plancus audubonii* Population: FL pop. No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8250	Threatened
Everglade Snail Kite *Rostrhamus sociabilis plumbeus* There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/7713	Endangered
Florida Grasshopper Sparrow *Ammodramus savannarum floridanus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/32	Endangered
Whooping Crane *Grus americana* Population: U.S.A. (CO, ID, FL, NM, UT, and the western half of Wyoming) No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/758	Experimental Population, Non-Essential
Wood Stork *Mycteria americana* Population: AL, FL, GA, MS, NC, SC No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8477	Threatened

Reptiles

NAME	STATUS
American Alligator *Alligator mississippiensis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/776	Similarity of Appearance (Threatened)
Hawksbill Sea Turtle *Eretmochelys imbricata* There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/3656	Endangered
Leatherback Sea Turtle *Dermochelys coriacea* There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/1493	Endangered
Loggerhead Sea Turtle *Caretta caretta* Population: Northwest Atlantic Ocean DPS There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/1110	Threatened

Insects

NAME	STATUS
Miami Blue Butterfly *Cyclargus (=Hemiargus) thomasi bethunebakeri*	Endangered

No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/3797

Flowering Plants

NAME	STATUS
Fragrant Prickly-apple *Cereus eriophorus var. fragrans*	Endangered

No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/982

Lakela's Mint *Dicerandra immaculata*	Endangered

No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/6390

Tiny Polygala *Polygala smallii*	Endangered

No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/996

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

APPENDIX B

STANDARD PROTECTION MEASURES FOR THE EASTERN INDIGO SNAKE

United States Department of the Interior

FISH AND WILDLIFE SERVICE
South Florida Ecological Services Office
1339 20th Street
Vero Beach, Florida 32960

August 1, 2017

Donnie Kinard
U.S. Army Corps of Engineers
Post Office Box 4970
Jacksonville, Florida 32232-0019

Subject: Consultation Key for the Eastern Indigo Snake – Revised

Dear Mr. Kinard:

This letter revises and replaces the January 25, 2010, and August 13, 2013, letters to the U.S. Army Corps of Engineers (Corps) regarding the use of the eastern indigo snake programmatic effect determination key (Key) for projects occurring within the South Florida Ecological Service's Office (SFESO) jurisdiction. This revision supersedes all prior versions of the Key in the SFESO area. The purpose of this revision is to clarify portions of the previous keys based on questions we have been asked, specifically related to habitat and refugia used by eastern indigo snakes (*Drymarchon corais couperi*), in the southern portion of their range and within the jurisdiction of the SFESO. This Key is provided pursuant to the Service's authorities under the Endangered Species Act of 1973, as amended (Act) (87 Stat. 884; 16 U.S.C.1531 *et seq.*). This Key revision has been assigned Service Consultation Code: 41420-2009-I-0467-R001.

The purpose of this Key is to assist the Corps (or other Federal action agency) in making appropriate effects determinations for the eastern indigo snake under section 7 of the Act, and streamline informal consultation with the SFESO for the eastern indigo snake when the proposed action can be walked through the Key. The Key is a tool available to the Corps (or other Federal action agency) for the purposes of expediting section 7 consultations. There is no requirement to use the Key. There will be cases when the use of the Key is not appropriate. These include, but are not limited to: where project specific information is outside of the scope of the Key or instances where there is new biological information about the species. In these cases, we recommend the Corps (or other Federal action agency) initiates traditional consultation pursuant to section 7 of the Act, and identify that consultation is being requested outside of the Key.

This Key uses project size and home ranges of eastern indigo snakes as the basis for making determinations of "may affect, but is not likely to adversely affect" (NLAA) and "may affect. and is likely to adversely affect" (may affect). Suitable habitat for the eastern indigo snake consists of a mosaic of habitats types, most of which occur throughout South Florida. Information on home ranges for individuals is not available in specific habitats in South Florida. Therefore, the SFESO uses the information from a 26-year study conducted by Layne and Steiner (1996) at Archbold Biological Station, Lake Placid, Florida, as the best available

information. Layne and Steiner (1996) determined the average home range size for a female eastern indigo snake was 46 acres and 184 acres for a male.

Projects that would remove/destroy less than 25 acres of eastern indigo snake habitat are expected to result in the loss of a portion of an eastern indigo snakes home range that would not impair the ability of the individual to feed, breed, and shelter. Therefore, the Service finds that take would not be reasonably certain to occur due to habitat loss. However, these projects have the potential to injure or kill an eastern indigo snake if the individual is crushed by equipment during site preparation or other project aspects. The Service's *Standard Protection Measures for the Eastern Indigo Snake* (Service 2013 or most current version) and the excavation of underground refugia (where a snake could be buried, trapped and/or injured), when implemented, are designed to avoid these forms of take. Consequently, projects less than 25 acres that include the Service's *Standard Protection Measures for the Eastern Indigo Snake* (Service 2013 or most current version) and a commitment to excavate underground refugia as part of the proposed action would be expected to avoid take and thus, may affect, but are not likely to adversely affect the species.

If a proposed project would impact less than 25 acres of vegetated eastern indigo snake habitat (not urban/ human-altered) completely surrounded by urban development, and an eastern indigo snake has been observed on site, the Key should not be used. The Service recommends formal consultation for this situation because of the expected increased value of the vegetated habitat within the individual's home range.

Projects that would remove 25 acres or more of eastern indigo snake habitat could remove more than half of a female eastern indigo snakes home range. This loss of habitat within a home range would be expected to significantly impair the ability of that individual to feed, breed, and shelter. Therefore, the Service finds take through habitat loss would be reasonably certain to occur and formal consultation is appropriate. Furthermore, these projects have the potential to injure or kill an eastern indigo snake if the individual is crushed by equipment during site preparation or other project aspects. The Service's *Standard Protection Measures* for the *Eastern Indigo Snake* (Service 2013 or most current version) and the excavation of underground refugia (where a snake could be buried, trapped and/or injured), when implemented, are designed to avoid these forms of take.

Eastern indigo snakes use a variety of habitat and are difficult to detect. Therefore, site specific information on the land use, observations of eastern indigo snakes within the vicinity, as well as other factors, as appropriate, will all be considered by the Service when making a final recommendation on the appropriate effects determination and whether it is appropriate to conclude consultation with the Corps (or other Federal action agency) formally or informally for projects that will impact 25 acres or more of habitat. Accordingly, when the use of the Key results in a determination of "may affect," the Corps (or other Federal action agency) is advised that consultation may be concluded informally or formally, depending on the project specific effects to eastern indigo snakes. Technical assistance from the Service can assist you in making a determination prior to submitting a request for consultation. In circumstances where the Corps (or other Federal action agency) desires to proceed with a consultation request prior to receiving

additional technical assistance from the Service, we recommend the agency documents the biological rationale for their determination and proceed with a request accordingly.

If the use of the Key results in a determination of "no effect," no further consultation is necessary with the SFESO. If the use of the Key results in a determination of "NLAA," the SFESO concurs with this determination based on the rationale provide above, and no further consultation is necessary for the effects of the proposed action on the eastern indigo snake. For "no effect" or "NLAA" determinations, the Service recommends that the Corps (or other Federal action agency) documents the pathway used to reach your no effect or NLAA determination in the project record and proceed with other species analysis as warranted.

Eastern Indigo Snake Programmatic Effect Determination Key
Revised July 2017
South Florida Ecological Service Office

Scope of the Key

This Key should be used only in the review of permit applications for effects determinations for the eastern indigo snake (*Drymarchon corais couperi*) within the South Florida Ecological Service's Office (SFESO) area (Broward, Charlotte, Collier, De Soto, Glades, Hardee, Hendry, Highlands, Lee, Indian River, Martin, Miami-Dade, Monroe, Okeechobee, Osceola, Palm Beach, Polk, Sarasota, and St. Lucie Counties). There is no designated critical habitat for the eastern indigo snake.

This Key is subject to revision as the Corps (or other Federal action agency) and Service deem necessary and in particular whenever there is new information on eastern indigo snake biology and effects of proposed projects.

The Key is a tool available to the Corps (or other Federal action agency) for the purposes of expediting section 7 consultations. There is no requirement to use the Key. There will be cases when the use of the Key is not appropriate. These include, but are not limited to: where project specific information is outside of the scope of the Key or instances where there is new biological information about the species. In these cases, we recommend the Corps (or other Federal action agency) initiates traditional consultation pursuant to section 7 of the Act, and identify that consultation is being requested outside of the Key.

Habitat

Habitat use varies seasonally between upland and wetland areas, especially in the more northern parts of the species' range. In southern parts of their range eastern indigo snakes are habitat generalists which use most available habitat types. Movements between habitat types in northern areas of their range may relate to the need for thermal refugia (protection from cold and/or heat).

In northern areas of their range eastern indigo snakes prefer an interspersion of tortoise-inhabited sandhills and wetlands (Landers and Speake 1980). In these northern regions eastern indigo

snakes most often use forested areas rich with gopher tortoise burrows, hollowed root channels, hollow logs, or the burrows of rodents, armadillos, or land crabs as thermal refugia during cooler seasons (Lawler 1977; Moler 1985a; Layne and Steiner 1996). The eastern indigo snake in the northern region is typically classified as a longleaf pine savanna specialist because here, in the northern four-fifths of its range, the eastern indigo snake is typically only found in vicinity of xeric longleaf pine–turkey oak sandhills inhabited by the gopher tortoise (Means 2006).

In the milder climates of central and southern Florida, comprising the remaining one fifth of its range, thermal refugia such as those provided by gopher tortoise burrows may not be as critical to survival of indigo snakes. Consequently, eastern indigo snakes in these regions use a more diverse assemblage of habitats such as pine flatwoods, scrubby flatwoods, floodplain edges, sand ridges, dry glades, tropical hammocks, edges of freshwater marshes, muckland fields, coastal dunes, and xeric sandhill communities; with highest population concentrations of eastern indigo snakes occurring in the sandhill and pineland regions of northern and central Florida (Service 1999). Eastern indigo snakes have also been found on agricultural lands with close proximity to wetlands (Zeigler 2006).

In south Florida, agricultural sites (*e.g.*, sugar cane fields and citrus groves) are occupied by eastern indigo snakes. The use of sugarcane fields by eastern indigo snakes was first documented by Layne and Steiner in 1996. In these areas there is typically an abundance of wetland and upland ecotones (due to the presence of many ditches and canals), which support a diverse prey base for foraging. In fact, some speculate agricultural areas may actually have a higher density of eastern indigo snakes than natural communities due to the increased availability of prey. Gopher tortoise burrows are absent at these locations but there is an abundance of both natural and artificial refugia. Enge and Endries (2009) reporting on the status of the eastern indigo snake included sugarcane fields and citrus groves in a Global Information Systems (GIS)-base map of potential eastern indigo snake habitat. Numerous sightings of eastern indigo snakes within sugarcane fields have been reported within south Florida (Florida Fish and Wildlife Conservation Commission Indigo Snake Database [Enge 2017]). A recent study associated with the Comprehensive Everglades Restoration Plan (CERP) (A-1 FEB Project formerly A-1 Reservoir; Service code: 41420-2006-F-0477) documented eastern indigo snakes within sugarcane fields. The snakes used artificial habitats such as piles of limerock, construction debris, and pump stations. Recent studies also associated with the CERP at the C-44 Project (Service code: 41420-2009-FA-0314), and C-43 Project (Service code: 41420-2007-F-0589) documented eastern indigo snakes within citrus groves. The snakes used artificial habitats such as boards, sheets of tin, construction debris, pipes, drain pipes in abandoned buildings and septic tanks.

In extreme south Florida (*i.e.*, the Everglades and Florida Keys), eastern indigo snakes also utilize tropical hardwood hammocks, pine rocklands, freshwater marshes, abandoned agricultural land, coastal prairie, mangrove swamps, and human-altered habitats. Though eastern indigo snakes have been found in all available habitats of south Florida it is thought they prefer hammocks and pine forests since most observations occur there and use of these areas is disproportionate compared to the relatively small total area of these habitats (Steiner *et al.* 1983).

Even though thermal stress may not be a limiting factor throughout the year in south Florida, eastern indigo snakes still seek and use underground refugia. On the sandy central ridge of central Florida, eastern indigo snakes use gopher tortoise burrows more (62 percent) than other underground refugia (Layne and Steiner 1996). Other underground refugia used include armadillo (*Dasypus novemcinctus*) burrows near citrus groves, cotton rat (*Sigmodon hispidus*) burrows, and land crab (*Cardisoma guanhumi*) burrows in coastal areas (Layne and Steiner 1996; Wilson and Porras 1983). Natural ground holes, hollows at the base of trees or shrubs, ground litter, trash piles, and crevices of rock-lined ditch walls are also used (Layne and Steiner 1996). These refugia are used most frequently where tortoise burrows are not available, principally in low-lying areas off the central and coastal ridges.

Minimization Measures

The Service developed protection measures for the eastern indigo snake "Standard Protection Measures for the Eastern Indigo Snake" (Service 2013) located at: https://www.fws.gov/verobeach/ReptilesPDFs/20130812_EIS%20Standard%20Protection%20Measures_final.pdf. These protections measures (or the most updated version) are considered a minimization measure for projects proposed within eastern indigo snake habitat.

Determinations

If the use of this Key results in a determination of "**no effect**," no further consultation is necessary with the SFESO.

If the use of this Key results in a determination of "**NLAA**," the SFESO concurs with this determination and no further consultation is necessary for the effects of the proposed action on the eastern indigo snake.

For no effect or NLAA determinations, the Corps (or other Federal action agency) should make a note in the project file indicating the pathway used to reach your no effect or NLAA determination.

If a proposed project would impact less than 25 acres of vegetated eastern indigo snake habitat (not urban/ human-altered) completely surrounded by urban development, and an eastern indigo snake has been observed on site, the subsequent Key should not be used. The Service recommends formal consultation for this situation because of the expected increased value of the vegetated habitat within the individual's home range.

If the use of this Key results in a determination of "**may affect**," consultation may be concluded informally or formally depending on project effects to eastern indigo snakes. Technical assistance from the Service can assist you in making a determination prior to submitting a request for consultation. In circumstances where the Corps desires to proceed with a consultation request prior to receiving additional technical assistance from the Service, we recommend the Corps document the biological rationale for their determination and proceed with a request accordingly.

A. Project is not located in open water or salt marsh.....go to B

Project is located solely in open water or salt marsh.....**no effect**

B. Permit will be conditioned for use of the Service's most current guidance for Standard Protection Measures For The Eastern Indigo Snake (currently 2013) during site preparation and project construction.....go to C

Permit will not be conditioned as above for the eastern indigo snake, or it is not known whether an applicant intends to use these measures and consultation with the Service is requested.....**may affect**

C. The project will impact less than 25 acres of eastern indigo snake habitat (*e.g.*, sandhill, scrub, pine flatwoods, pine rocklands, scrubby flatwoods, high pine, dry prairie, coastal prairie, mangrove swamps, tropical hardwood hammocks, hydric hammocks, edges of freshwater marshes, agricultural fields [including sugar cane fields and active, inactive, or abandoned citrus groves], and coastal dunes).....go to D

The project will impact 25 acres or more of eastern indigo snake habitat (*e.g.*, sandhill, scrub, pine flatwoods, pine rocklands, scrubby flatwoods, high pine, dry prairie, coastal prairie, mangrove swamps, tropical hardwood hammocks, hydric hammocks, edges of freshwater marshes, agricultural fields [including sugar cane fields and active, inactive, or abandoned citrus groves], and coastal dunes).....**may affect**

D. The project has no known holes, cavities, active or inactive gopher tortoise burrows, or other underground refugia where a snake could be buried, trapped and/or injured during project activities.....**NLAA**

The project has known holes, cavities, active or inactive gopher tortoise burrows, or other underground refugia where a snake could be buried, trapped and /or injured.....go to E

E. Any permit will be conditioned such that all gopher tortoise burrows, active or inactive, will be excavated prior to site manipulation in the vicinity of the burrow[1]. If an eastern indigo snake is encountered, the snake must be allowed to vacate the area prior to additional site manipulation in the vicinity. Any permit will also be conditioned such that holes, cavities, and snake refugia other than gopher tortoise burrows will be inspected each morning before planned site manipulation of a particular area, and, if occupied by an eastern indigo snake, no work will commence until the snake has vacated the vicinity of proposed work.....**NLAA**[2]

Permit will not be conditioned as outlined above.....**may affect**

End Key

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[1] If excavating potentially occupied burrows, active or inactive, individuals must first obtain state authorization via a Florida Fish and Wildlife Conservation Commission Authorized Gopher Tortoise Agent permit. The excavation method selected should also minimize the potential for injury of an indigo snake. Applicants should follow the excavation guidance provided within the most current Gopher Tortoise Permitting Guidelines found at http://myfwc.com/gophertortoise.

[2] Please note, if the proposed project will impact less than 25 acres of vegetated eastern indigo snake habitat (not urban/ human-altered) completely surrounded by urban development, and an eastern indigo snake has been observed on site, NLAA is not the appropriate conclusion. The Service recommends formal consultation for this situation because of the expected increased value of the vegetated habitat within the individual's home range

Working with the Fish and Wildlife Foundation of Florida, the Service has established a fund to support conservation and recovery for the eastern indigo snake. Any project that has the potential to affect the eastern indigo snake and/or its habitat is encouraged to make a voluntary contribution to this fund. If you would like additional information about how to make a contribution and how these monies are used to support eastern indigo snake recovery please contact Ashleigh Blackford, Connie Cassler, or José Rivera at 772-562-3559.

This revised Key is effective immediately upon receipt by the Corps. Should circumstances change or new information become available regarding the eastern indigo snake and/or implementation of the Key, the determinations herein may be reconsidered and this Key further revised or amended.

Thank you for your continued cooperation in the effort to conserve fish and wildlife resources. If you have any questions or comments regarding this Key, please contact the SFESO at 772-562-3909.

Sincerely,

Roxanna Hinzman
Field Supervisor
South Florida Ecological Services

Cc:
Corps, Jacksonville, Florida (Dale Beter, Muriel Blaisdell, Ingrid Gilbert, Angela Ryan, Irene Sadowski, Victoria White, Alisa Zarbo)
Service, Athens, Georgia (Michelle Elmore)
Service, Jacksonville, Florida (Annie Dziergowski)
Service, Panama City, Florida (Sean Blomquist)

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STANDARD PROTECTION MEASURES FOR THE EASTERN INDIGO SNAKE
U.S. Fish and Wildlife Service
August 12, 2013

The eastern indigo snake protection/education plan (Plan) below has been developed by the U.S. Fish and Wildlife Service (USFWS) in Florida for use by applicants and their construction personnel. At least **30 days prior** to any clearing/land alteration activities, the applicant shall notify the appropriate USFWS Field Office via e-mail that the Plan will be implemented as described below (North Florida Field Office: jaxregs@fws.gov; South Florida Field Office: verobeach@fws.gov; Panama City Field Office: panamacity@fws.gov). As long as the signatory of the e-mail certifies compliance with the below Plan (including use of the attached poster and brochure), no further written confirmation or "approval" from the USFWS is needed and the applicant may move forward with the project.

If the applicant decides to use an eastern indigo snake protection/education plan other than the approved Plan below, written confirmation or "approval" from the USFWS that the plan is adequate must be obtained. At least 30 days prior to any clearing/land alteration activities, the applicant shall submit their unique plan for review and approval. The USFWS will respond via e-mail, typically within 30 days of receiving the plan, either concurring that the plan is adequate or requesting additional information. A concurrence e-mail from the appropriate USFWS Field Office will fulfill approval requirements.

The Plan materials should consist of: 1) a combination of posters and pamphlets (see **Poster Information** section below); and 2) verbal educational instructions to construction personnel by supervisory or management personnel before any clearing/land alteration activities are initiated (see **Pre-Construction Activities** and **During Construction Activities** sections below).

POSTER INFORMATION

Posters with the following information shall be placed at strategic locations on the construction site and along any proposed access roads (a final poster for Plan compliance, to be printed on 11" x 17" or larger paper and laminated, is attached):

DESCRIPTION: The eastern indigo snake is one of the largest non-venomous snakes in North America, with individuals often reaching up to 8 feet in length. They derive their name from the glossy, blue-black color of their scales above and uniformly slate blue below. Frequently, they have orange to coral reddish coloration in the throat area, yet some specimens have been reported to only have cream coloration on the throat. These snakes are not typically aggressive and will attempt to crawl away when disturbed. Though indigo snakes rarely bite, they should NOT be handled.

SIMILAR SNAKES: The black racer is the only other solid black snake resembling the eastern indigo snake. However, black racers have a white or cream chin, thinner bodies, and WILL BITE if handled.

LIFE HISTORY: The eastern indigo snake occurs in a wide variety of terrestrial habitat types throughout Florida. Although they have a preference for uplands, they also utilize some wetlands

and agricultural areas. Eastern indigo snakes will often seek shelter inside gopher tortoise burrows and other below- and above-ground refugia, such as other animal burrows, stumps, roots, and debris piles. Females may lay from 4 - 12 white eggs as early as April through June, with young hatching in late July through October.

PROTECTION UNDER FEDERAL AND STATE LAW: The eastern indigo snake is classified as a Threatened species by both the USFWS and the Florida Fish and Wildlife Conservation Commission. "Taking" of eastern indigo snakes is prohibited by the Endangered Species Act without a permit. "Take" is defined by the USFWS as an attempt to kill, harm, harass, pursue, hunt, shoot, wound, trap, capture, collect, or engage in any such conduct. Penalties include a maximum fine of $25,000 for civil violations and up to $50,000 and/or imprisonment for criminal offenses, if convicted.

Only individuals currently authorized through an issued Incidental Take Statement in association with a USFWS Biological Opinion, or by a Section 10(a)(1)(A) permit issued by the USFWS, to handle an eastern indigo snake are allowed to do so.

IF YOU SEE A <u>LIVE</u> EASTERN INDIGO SNAKE ON THE SITE:

- Cease clearing activities and allow the live eastern indigo snake sufficient time to move away from the site without interference;
- Personnel must NOT attempt to touch or handle snake due to protected status.
- Take photographs of the snake, if possible, for identification and documentation purposes.
- Immediately notify supervisor or the applicant's designated agent, **and** the appropriate USFWS office, with the location information and condition of the snake.
- If the snake is located in a vicinity where continuation of the clearing or construction activities will cause harm to the snake, the activities must halt until such time that a representative of the USFWS returns the call (within one day) with further guidance as to when activities may resume.

IF YOU SEE A <u>DEAD</u> EASTERN INDIGO SNAKE ON THE SITE:

- Cease clearing activities and immediately notify supervisor or the applicant's designated agent, **and** the appropriate USFWS office, with the location information and condition of the snake.
- Take photographs of the snake, if possible, for identification and documentation purposes.
- Thoroughly soak the dead snake in water and then freeze the specimen. The appropriate wildlife agency will retrieve the dead snake.

Telephone numbers of USFWS Florida Field Offices to be contacted if a live or dead eastern indigo snake is encountered:

North Florida Field Office – (904) 731-3336
Panama City Field Office – (850) 769-0552
South Florida Field Office – (772) 562-3909

PRE-CONSTRUCTION ACTIVITIES

1. The applicant or designated agent will post educational posters in the construction office and throughout the construction site, including any access roads. The posters must be clearly visible to all construction staff. A sample poster is attached.

2. Prior to the onset of construction activities, the applicant/designated agent will conduct a meeting with all construction staff (annually for multi-year projects) to discuss identification of the snake, its protected status, what to do if a snake is observed within the project area, and applicable penalties that may be imposed if state and/or federal regulations are violated. An educational brochure including color photographs of the snake will be given to each staff member in attendance and additional copies will be provided to the construction superintendent to make available in the onsite construction office (a final brochure for Plan compliance, to be printed double-sided on 8.5" x 11" paper and then properly folded, is attached). Photos of eastern indigo snakes may be accessed on USFWS and/or FWC websites.

3. Construction staff will be informed that in the event that an eastern indigo snake (live or dead) is observed on the project site during construction activities, all such activities are to cease until the established procedures are implemented according to the Plan, which includes notification of the appropriate USFWS Field Office. The contact information for the USFWS is provided on the referenced posters and brochures.

DURING CONSTRUCTION ACTIVITIES

1. During initial site clearing activities, an onsite observer may be utilized to determine whether habitat conditions suggest a reasonable probability of an eastern indigo snake sighting (example: discovery of snake sheds, tracks, lots of refugia and cavities present in the area of clearing activities, and presence of gopher tortoises and burrows).

2. If an eastern indigo snake is discovered during gopher tortoise relocation activities (i.e. burrow excavation), the USFWS shall be contacted within one business day to obtain further guidance which may result in further project consultation.

3. Periodically during construction activities, the applicant's designated agent should visit the project area to observe the condition of the posters and Plan materials, and replace them as needed. Construction personnel should be reminded of the instructions (above) as to what is expected if any eastern indigo snakes are seen.

POST CONSTRUCTION ACTIVITIES

Whether or not eastern indigo snakes are observed during construction activities, a monitoring report should be submitted to the appropriate USFWS Field Office within 60 days of project completion. The report can be sent electronically to the appropriate USFWS e-mail address listed on page one of this Plan.

APPENDIX C

USFWS CRESTED CARACARA DRAFT SURVEY PROTOCOL ADDITIONAL GUIDANCE

USFWS Crested Caracara Draft Survey Protocol – Additional Guidance (2016-2017 Breeding Season)

The northern crested caracara (*Caracara cheriway*) is a resident, diurnal, and non-migratory raptor that occurs primarily in Florida, Texas, Arizona, Cuba, Mexico, Central America, and the northern portions of South America (Morrison and Dwyer 2012). Only the Florida population, which is isolated from the remainder of the species, is listed as threatened under the Endangered Species Act.

In order to avoid the potential for unauthorized take, future project sites within the caracara consultation area (Figure 1) containing habitats (same or similar) as described below should undergo a formal caracara survey to determine site utilization by caracaras. The intent of caracara surveys is three-fold: (1) to determine the location(s) of active caracara nest(s) that could be adversely affected by the proposed project; (2) to determine the presence and use of the project area by breeding and non-breeding caracaras, including the approximate boundaries of breeding territories, if possible; and (3) to determine the fate and productivity of any caracara nest found.

We recommend coordinating with the U.S. Fish and Wildlife Service (Service) prior to conducting surveys, including submittal of a proposed survey plan and list of observers which follows the guidance below. Following the guidance will ensure that the surveys are timed during the period of greatest detection to document caracaras within or adjacent to the proposed project. The Service has caracara observation and nest location data as well as designated caracara congregation areas that may be of use for planning surveys. For project consultations under the Endangered Species Act, surveys must follow this protocol and must be no older than the previous caracara nesting season (January – April) in order to be considered valid. In the event that construction or vegetation clearing activity will occur more than one year after permitting is completed, contact the Service to discuss the need for follow-up surveys.

Foraging and Nesting Habitat

The Florida caracara population commonly occurs on dry or wet prairies with scattered cabbage palms (*Sabal palmetto*). It may also be found in lightly wooded areas. Scattered saw palmetto (*Serenoa repens*), scrub oaks (*Quercus geminata, Q. minima, Q. pumila*), and cypress (*Taxodium* spp.) may also be present. Widespread changes in land use may have caused a change in habitat use in this species. Morrison and Humphrey (2001) found a strong association of caracara home ranges with improved pasture. The presence of seasonal wetlands, which may serve as foraging habitat, is an important factor in the attractiveness of these pastures to caracaras (Service 1999). Therefore, today we recognize caracara foraging habitat (and nesting territories) as those areas with short herbaceous vegetation. This includes native wet and dry prairies, but also improved, unimproved, and woodland pastures, sod farms, row crops, levees, and rangeland. Juvenile caracaras may also use citrus and tree farms.

The primary nesting substrate is cabbage palm, although there have been rare reports of nesting in slash pine (pers. obs.), cypress, oak, red cedar (Morrison 2007), Australian pine

(*Casuarina* sp.), saw palmetto, and black gum (*Nyssa sylvatica*), and even more atypical locations such as an electrical substation, radio tower, and billboard (Dwyer and DallaRosa 2015).

Survey Design and Planning

The protective area for a caracara nest is a radius of about 1,500 meters (m) (4,920 feet) from the nest. Therefore, the survey area should include the project area and a 1,500-m buffer zone around the perimeter of the project area (including access roads) to account for off-site nest trees in territories that might overlap onto the project area. A recent aerial photograph depicting the project boundary and buffer zone should be used to identify all areas of suitable habitat and to preliminarily map observation blocks. An observation block is defined as an area easily observable from one vantage point. Enough observation blocks must be identified to cover all suitable habitats within the project boundary and 1,500-m buffer. Surveyors should try to obtain legal access to non-project property within the survey area where suitable habitat exists; these efforts should be documented (e.g., copy of letter, email, etc.). If permission cannot be obtained, contact the Service for additional guidance prior to initiating surveys.

Prior to the first survey, a site visit should be conducted to confirm suitable habitat and the location of observation blocks. Based on this site assessment (*e.g.*, presence of visual obstructions), observation blocks may need to be revised. During the site visit, also identify observer survey stations (at least one per observation block). Survey stations should be located to allow full, unobstructed view of the observation block – strategic points are those where caracaras are more likely to be seen going to and from potential nesting or foraging sites. Based on the site assessment, update the aerial photo to show suitable habitat, and labeled observation blocks and their respective survey stations. The location of survey stations may be adjusted if needed based on initial survey results in order to obtain a different/better view of caracara activity. Any adjustments to the survey design should be documented via revised maps.

Observer Qualifications

Information from a recent study (Dwyer *et al.* 2012) suggested that the probability that a visit or series of visits (*i.e.*, a survey) would lead to the discovery of an existing caracara nest increases with an experienced observer. Due to their cryptic nest site locations and unorthodox method of foraging (walking on the ground), successful nest site surveys require a specific skillset acquired by conducting numerous surveys under the supervision of an experienced caracara surveyor. In addition, caracaras can be hard to find and identify at long distances, especially under low-light conditions. Caracaras may also be wary of humans and will change their behavior in the presence of people, which can make locating nests extremely difficult for less experienced observers. Due to these factors, surveys must be conducted by a qualified biologist having at least two years of experience conducting bird surveys and at least 40 hours of caracara survey experience (i.e., equivalent to one survey season) under the supervision of an experienced caracara surveyor. If an observer does not meet these minimum qualifications,

the observer should be accompanied by a qualified observer who will serve as the primary observer. Even in cases of qualified observers, and where staff resources allow it, having two observers at the same station can increase the probability of finding a nest.

Conducting Foraging and Nesting Surveys

The highest probability of success in finding caracara nests is during the period of January through March. This period covers the time when adult caracaras are foraging to feed nestlings and therefore, become more visible to observers. As such, surveys must start no later than January 10 and continue through April 30 to provide adequate data to conclude whether or not the site contains an active caracara nest and/or foraging habitat. If the survey starts after January 10, and no nest are found, the survey may not be considered valid by the Service. Surveys considered invalid should be repeated the following nesting season using the latest Service protocol to ensure that early nesting birds were not missed. Surveys should not be conducted in November or December without additional coordination with the Service to avoid disturbing nesting caracaras during nest initiation or incubation, when they are more prone to disturbance.

A complete survey of the project area consists of one survey session every two weeks of each observation block within the project area and the 1,500-m buffer from early January (i.e., Jan 1 - 10) through April 30 (unless a nest is found within the observation block prior to April 30; in that event, begin Productivity Surveys as described below). A survey session is defined as a single survey within an identified observation block initiated at least 15 minutes prior to sunrise and lasting 3 hours (Dwyer et al. 2012). The entire 3-hour survey session must be spent viewing the one observation block – observers cannot rotate between stations, cruise roads, or leave the observation block unless following a flying caracara. If the survey area is large or includes obstructed views, and multiple observation blocks are required, then multiple observers (preferred) or additional survey sessions will be needed to complete the survey of the entire project area. Afternoon or evening surveys are optional, but cannot be substituted for early morning surveys (in the event of not finding a nest). More frequent morning surveys (i.e., more than one during any two-week period) of an observation block are also optional, and can increase the probability of finding a nest, but cannot replace the subsequent “once per two-week surveys” through April 30 (in the event of not finding a nest).

Surveys should be conducted from inside a vehicle (best option is a truck or similar vehicle to maximize height and minimize view obstructions) or an appropriate wildlife blind using high-power binoculars. This minimizes caracara disturbance and behavior alteration, and increases the probability of finding nest locations. Depending on the distance being surveyed, or the proximity of the caracara/nest being observed, it may also be acceptable for the observer to be adjacent to the vehicle if that affords better viewing. A spotting scope is essential when documenting behavior of caracaras and confirming nest tree locations that are far away. If this cannot be accomplished (e.g., due to visibility or vehicle access restrictions), the Service should be contacted to provide site-specific guidance.

Weather conditions must be adequate to clearly view the whole area. Surveys should not be conducted when it is rainy or foggy (Dwyer *et al*. 2012). Wind speed should be less than 12 miles per hour (19 kilometers per hour; Beaufort Number 3). Weather conditions and other important information must be recorded on field data sheets as itemized below (see Reporting).

During the survey, from a stationary position, search for caracara activity, including birds perched in trees or on sentinel posts, flying along roads or levees, or carrying nesting material or food. Watch for other birds, such as American crows (*Corvus brachyrhynchos*), red-tailed hawks (*Buteo jamaicensis*), red-shouldered hawks (*Buteo lineatus*), bald eagles (*Haliaeetus leucocephalus*), and turkey vultures (*Cathertes aura*), that might elicit an aggressive response from caracaras. Nesting caracaras will often chase potential predators away from the nest, thus revealing their presence. Also, vultures can indicate the presence of carrion that may attract caracaras. If the observer is near or on a road, pay attention to road-killed animals that may serve as forage for caracaras. If in a pasture, look for cow or calf carcasses on which caracaras may forage.

If a caracara is sighted, document its activity (*i.e.*, foraging, roosting, preening, territorial behavior, etc.) and location on an aerial map. If a caracara is in flight, document on the aerial map the direction the bird came from, the direction it is flying in, and if it is carrying nesting material or food. Make all reasonable efforts to track the bird to a potential nest location. If a potential nest tree is detected, then the observer can reposition to improve observation of the bird's behavior. All observer locations during a survey should be marked on the aerial. All caracara observations must be recorded on the field data sheets, including time of observation, number of birds, plumage (adult/juvenile), activity/behavior (*e.g.*, perching, foraging, feeding, preening, courtship or territorial display, etc.), and nest stage (building, incubating, nestlings, fledglings), if applicable. Corresponding caracara locations and flight paths must be marked and labeled on the aerial map. Also mark any potential or confirmed nest tree locations on the aerial photo, with GPS coordinates of the observation site and an estimate of the direction and distance of the nest from the observation point (a rangefinder may help to measure distance). Do not try to approach the nest as this may cause the caracara to abandon their nesting attempt. It may be possible to use a compass bearing from two different locations to triangulate the location of a nest tree that may be too far away and not near recognizable landmarks.

Survey sessions of each observation block must be repeated at two week intervals. Once a nest tree location is confirmed, report the location to the Service and transition to Productivity Surveys. In addition to location of nest trees, the survey data described above can be used to understand the use of the survey area (*e.g.*, as foraging or roosting habitat) by both breeding and non-breeding caracaras. Non-breeding caracaras can include both juveniles and adults. Detailed survey data are also useful in approximating boundaries of breeding territories, which is typically important to identifying the number of territories that may be impacted by a proposed project and the anticipated effect that proposed activities may have on a breeding

caracara pair. This is especially true for projects which are large in size or include habitat conversion. For more details on caracaras, see Service (1999) and Morrison and Dwyer (2012).

Conducting Productivity Surveys

Once a nest tree is confirmed or highly suspected, begin productivity surveys. These surveys involve the same repeated, two-week visits, but the surveyor need only observe the nest for the amount of time necessary to determine nest status (*i.e.,* incubating, nestlings, fledglings, or failed) and may survey the nest tree at any time during the day (assuming the weather conditions are appropriate). This will likely require much less effort per day than nest surveys. Many times, a spotting scope can be more useful than binoculars in observing activity in the nest that will indicate the nest status. As nesting progresses, the nestlings will become more active and easier to observe. Record the bird activity and number of nestlings. Record the fledging date and number of fledglings. From the fledging date, and previous observations, estimate the egg-laying date. If the nest appears to fail, continue surveying the nest tree area until April 30 as re-nesting may occur. If nests are deemed active on April 30, continue surveying those nest trees until they are either successful or have failed.

Reporting

An example field data sheet is provided at the end of this document, but observers may use their own data sheet format as long as the required information is collected. Requirements for final reports are as follows:

1. Map of field-verified habitat types within the project area and 1,500-m buffer;
2. Copies of marked aerial photo(s) showing all suitable habitat, with labeled observation blocks and their respective survey stations (including any alternate station locations used);
3. For each survey station, copies of any photos taken that document the field of view, nest tree or caracaras;
4. Documentation of efforts to contact adjacent landowners, and copies of access agreements, if applicable;
5. A summary table with the following information for each observer: name, hours of experience conducting caracara surveys (as of January 1), approximate number of caracara nests previously found, and whether the observer served as a primary or secondary observer;
6. Copies of all individual field data sheets which include the following information for each survey:
    - observation block/survey station identification,
    - survey date,
    - observer name(s),
    - observer location (*e.g.*, in a vehicle, blind, on foot),
    - start and end times,

- start and end weather conditions (temperature, wind speed and direction, cloud cover, visibility, and precipitation),
- caracara location/activity details including (for each observation):
  - time of observation,
  - number of birds,
  - plumage,
  - activity/behavior, and
  - nesting stage, if applicable, and
- an aerial map showing all observed caracara locations and flight paths (labeled to correspond with activity details) and any potential/confirmed nest tree locations; and

7. Location data (*e.g.*, latitude/longitude) for all caracara observations and potential/confirmed nest trees in Excel, projected shapefile (the preferred projection is Florida Albers NAD83 in meters), or .kml/.kmz format and attributed to include the information in (6) above.

Additional survey or reporting requirements may exist if the caracara surveys are required by a Service Biological Opinion (BO)(in this event, refer to the Terms and Conditions of the BO). For questions or additional guidance regarding the above survey protocol, please contact the Service's caracara lead biologist, Steve Schubert, at 772-469-4249 or 772-562-3909.

Literature Cited

Dwyer, J.F., and J.P. Dalla Rosa. 2015. Use of anthropogenic nest substrates by crested caracaras. Southeastern Naturalist 12(1):N10-N15.

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U.S. Fish and Wildlife Service (Service). 1999. South Florida multi-species recovery plan. Atlanta, Georgia. http://www.fws.gov/verobeach/MSRPPDFs/AudubonsCrestedCaracara.pdf

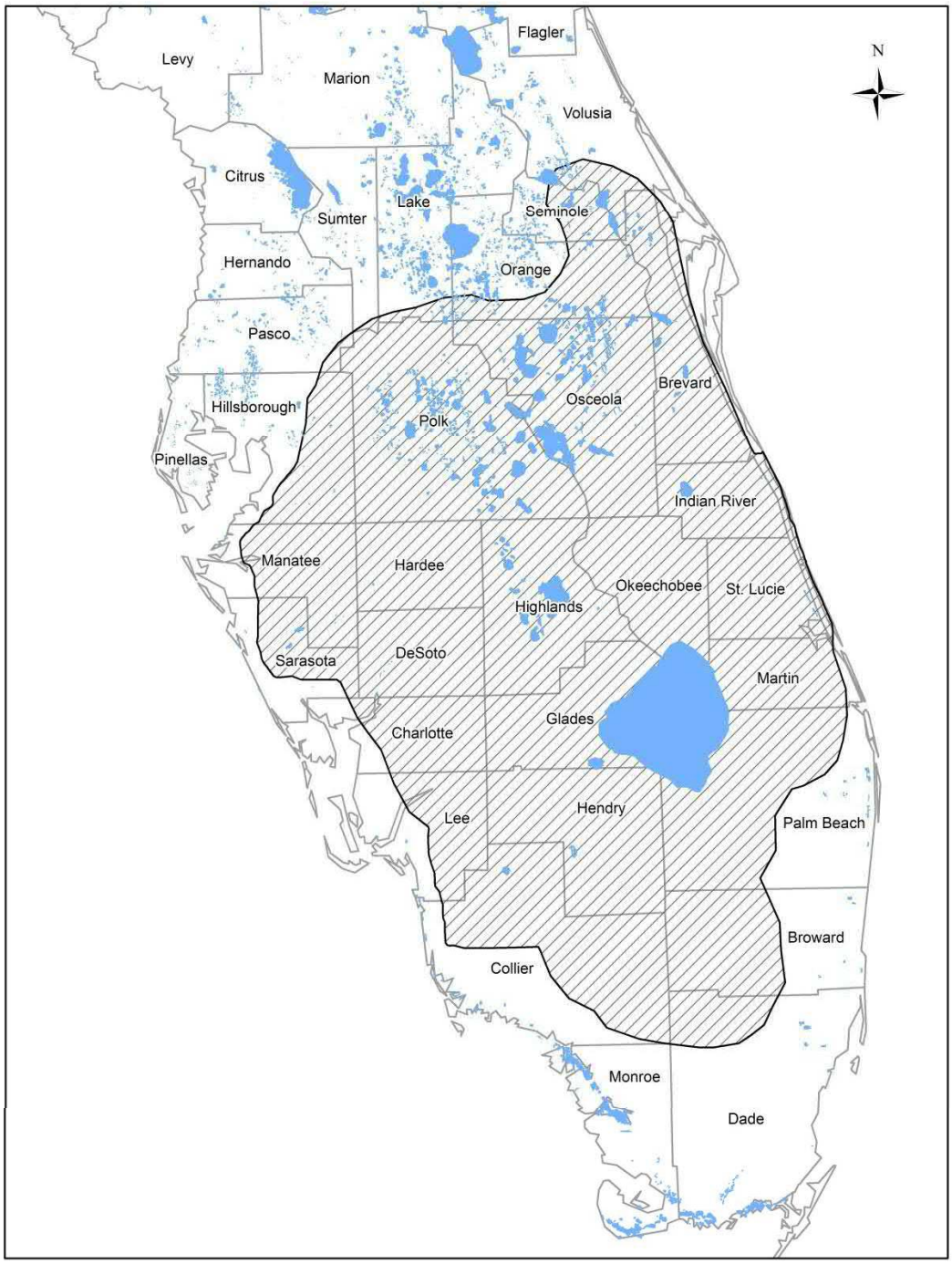


Figure 1. USFWS consultation area for crested caracara.

USFWS Crested Caracara Draft Survey Protocol –
Additional Guidance (2016-2017 Breeding Season)

Caracara Survey Form (updated 12/9/2016)

Project Name: _____

Location/Observation Block/Lat-Long:_____

Date	Start Time	Stop Time	Observer Name(s) and Experience Level(s)

Weather

Time	Air Temp	Wind Speed and Direction	% Cloud Cover	Cloud Type	Rain/Fog
Start:					
Finish:					

Observation Point Information

General Site and Habitat Conditions; Other Activities in the Area

Observations

(flight data, perching, preening, courtship, feeding, nest building, incubation, head throwback, diving, reaction to passing planes/traffic/pedestrians, other bird species, etc)

Observer Location	Age A/Im	Time	Description of behavior, flight path, etc

APPENDIX D

SHPO FLORIDA MASTER SITE FILE REPORT

This record search is for informational purposes only and does NOT constitute a project review. This search only identifies resources recorded at the Florida Master Site File and does NOT provide project approval from the Division of Historical Resources. Contact the Compliance and Review Section of the Division of Historical Resources at CompliancePermits@dos.MyFlorida.com for project review information.

March 15, 2021

Chloe Gossett
Kimley-Horn | 1920 Wekiva Way, Suite 200, West Palm Beach, FL 33411
Direct: 561 840 0217 | Mobile: 816 916 2233

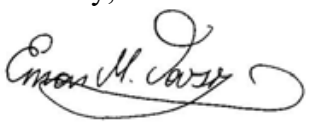
In response to your request on March 15, 2021, the Florida Master Site File lists two standing structures and one resource group recorded within 0.25 miles of the project area in St. Lucie County.

When interpreting the results of our search, please consider the following information:

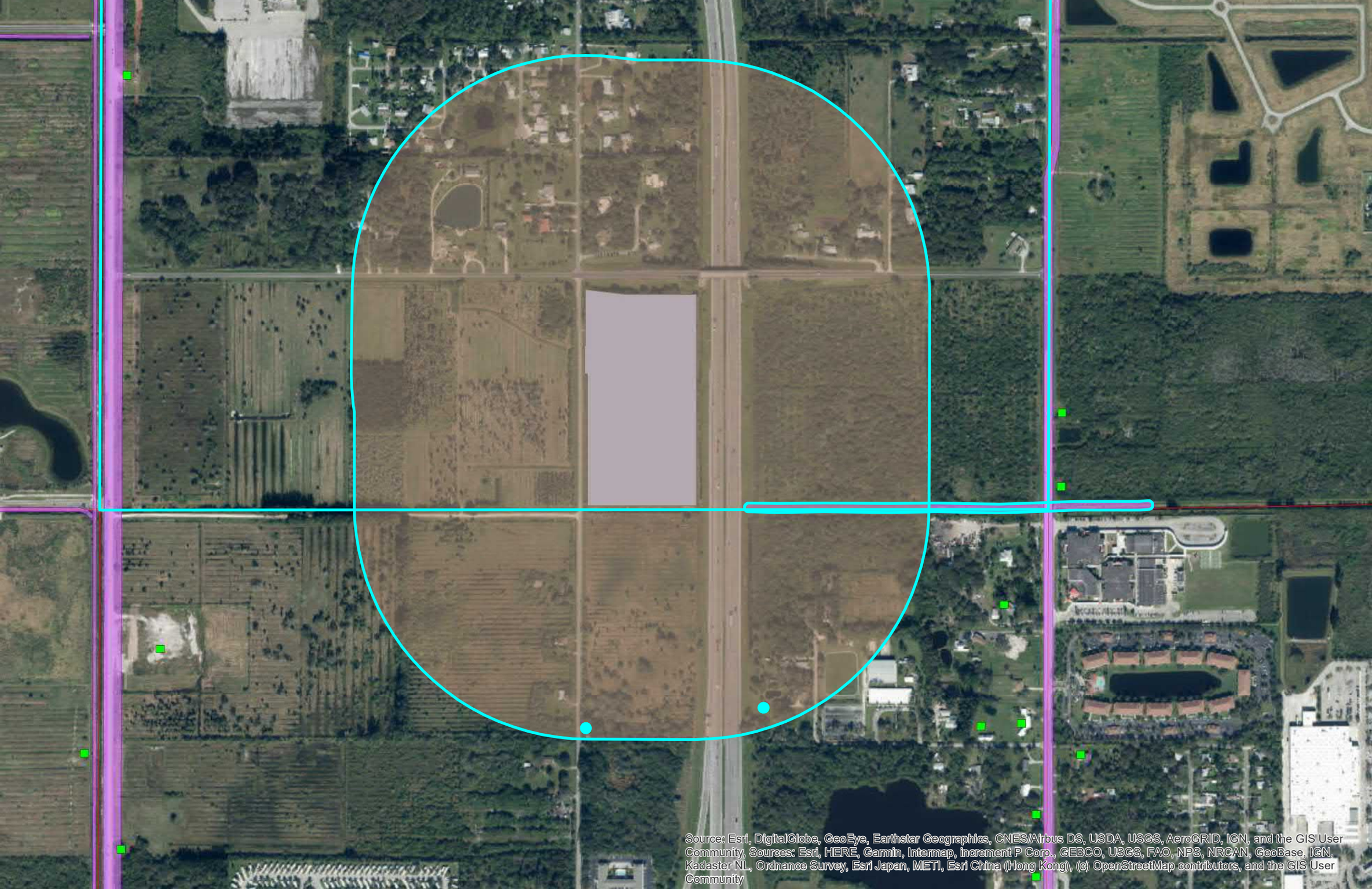
- **This search area may contain *unrecorded* archaeological sites, historical structures or other resources even if previously surveyed for cultural resources.**
- **Because vandalism and looting are common at Florida sites, we ask that you limit the distribution of location information on archaeological sites.**
- **While many of our records document historically significant resources, the documentation of a resource at the Florida Master Site File does not necessarily mean the resource is historically significant.**
- **Federal, state and local laws require formal environmental review for most projects. This search DOES NOT constitute such a review. If your project falls under these laws, you should contact the Compliance and Review Section of the Division of Historical Resources at** CompliancePermits@dos.MyFlorida.com

Please do not hesitate to contact us if you have any questions regarding the results of this search.

Sincerely,



Eman M. Vovsi, Ph.D.
Florida Master Site File
Eman.Vovsi@DOS.MyFlorida.com


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

AR=0
SS=2
CM=0
RG=1
BR=0
Total=3

Cultural Resource Roster

SiteID	Type	Site Name	Address	Additional Info	SHPO Eval	NR Status
SL01399	SS	2398 Peter Road	2398 Peter RD, Fort Pierce G.V.	1941 Masonry Vernacular		
SL01774	SS	6105 Tedder Road	6105 Tedder RD W, Ft Pierce	c1958 Masonry Vernacular	Not Eligible	
SL03140	RG	Canal No. 37	Fort Pierce	Linear Resource - 1 Contrib Resources	Not Eligible	

TRAFFIC IMPACT ANALYSIS

FORT PIERCE RV STORAGE

CITY OF FORT PIERCE, FL

Prepared for:

MACRITCHIE, INC.

Prepared by:

KIMLEY-HORN AND ASSOCIATES, INC.

MARCH 2021

Kimley»Horn

TRAFFIC IMPACT ANALYSIS

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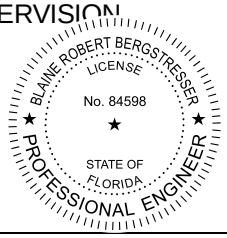
147814000
March 2021
© Kimley-Horn and Associates, Inc.
445 24th Street, Suite 200
Vero Beach, FL 32960

Kimley»Horn

THIS IS TO CERTIFY THAT THE ENCLOSED CALCULATIONS WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION.



Blaine Bergstresser, P.E.

Florida Registration #84598

Kimley-Horn Registry #696

Date: _____

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APPENDIX A: Conceptual Site Plan

APPENDIX B: GTCRPM Model Output

APPENDIX C: Turning Movement Counts

APPENDIX D: Intersection Volume Development Worksheets

APPENDIX E: Synchro (v10) Output

- AM Peak Hour
  - 2021 Existing Traffic Conditions
  - 2024 Future Year Background Traffic Conditions
  - 2024 Future Buildout Conditions
- PM Peak Hour
  - 2021 Existing Traffic Conditions
  - 2024 Future Year Background Traffic Conditions
  - 2024 Future Buildout Conditions

APPENDIX F: NCHRP Report 457 Output

INTRODUCTION

Kimley-Horn performed a traffic impact analysis (TIA) to support a Recreational Vehicle (RV) storage facility generally located on the south side of Graham Road, east of Copenhaver Road, and west of I-95 Turnpike in St. Lucie County, Florida. The project property is currently vacant and is in the process of being annexed into the City of Fort Pierce. The development is proposed to consist of ±503 RV storage spaces and anticipated to have a buildout year of 2024.

The TIA evaluates traffic operational conditions and identifies transportation improvement needs within the study area under existing, future background, and future buildout traffic conditions. The analysis has been performed in accordance with St. Lucie County *Land Development Code Section 11.02.09* as adjacent roadway segments to the development are maintained by St. Lucie County.

Access to the site will be provided via one full-access driveway onto Copenhaver Road. There will also be an emergency exit north of the main entrance on Copenhaver Road, but it will not be evaluated because it will not be used in typical conditions. The access points are shown on the conceptual site plan provided in **Appendix A**.

This traffic analysis is based on traffic data collected in the field and supplemented by information obtained from St. Lucie County and Florida Department of Transportation (FDOT) sources. The study observed the established procedures found in Institute of Transportation Engineers (ITE) sources, FDOT sources, and the *Highway Capacity Manual 6* (HCM 6).

PROJECT TRIP GENERATION

Trip generation for the development was determined using data found in the Institute of Transportation Engineers' (ITE) *Trip Generation Manual*, Tenth Edition. ITE land use code (LUC) 151 (Mini-Warehouse) was applied in the trip generation calculations using storage units as the independent variable.

The trip generation for the development is anticipated to be 91 daily net existing trips, 6 AM (3 in, 3 out) peak hour net new external trips, and 10 PM (5 in, 5 out) peak hour trips upon buildout. **Table 1** illustrates the trip generation calculations for the site.

Table 1 - Trip Generation of Proposed Development

Land Use	Intensity	Daily Trips	AM Peak Hour of Adjacent Street			PM Peak Hour of Adjacent Street		
			Total	In	Out	Total	In	Out
Proposed Development Mini-Warehouse (RV Storage)	503 Units	91	6	3	3	10	5	5
TOTAL NET EXISTING TRIPS		91	6	3	3	10	5	5

Trip Generation was calculated using the data from ITE's Trip Generation Manual, 10th Edition

Mini-Warehouse [ITE 151]

Daily	T = 18.86(x) - 4.09 (X/100 is number of storage units)
AM Peak Hour of Adjacent Street	T = 1.98(X) - 3.79; (X/100 is number of storage units); (51% in/49% out)
PM Peak Hour of Adjacent Street	T = 1.52(X) + 2.02; (X/100 is number of storage units); (50% in/50% out)

TRIP DISTRIBUTION, ASSIGNMENT, AND STUDY AREA

Projected traffic demand of project trips on study roadways was derived with use of the adopted regional travel demand model. Land use data for the project was entered into a new traffic analysis zone (TAZ) within the Greater Treasure Coast Regional Planning Model (GTCRPM) set and situated within the existing roadway network to appropriately represent project access. The model was used to assign trips for all trip purposes between allocated origin and destination pairs using project buildout year model data. Trip distribution for the project was extracted from the completed model assignment and reviewed for logic. The resulting model plots showing percent of daily project distribution are provided in **Appendix B**.

The study area was determined based on the St. Lucie County *Land Development Code Section 11.02.09*, which states that the study area should include all major roadways within 2.0-mile radius of the site. To determine roadway segments to be included in the TIA, a 1.0% significance test was performed for all major roadway segments within a 1.0-mile radius of the project site. Roadway segments that have less than 1.0% impact from the proposed development would be considered deminimis and will not be included within the roadway study area. The percent significance for project trips was determined by comparing the maximum directional peak hour project trips to the directional peak hour service capacity as provided the latest St. Lucie Transportation Planning Organization (TPO) Traffic Counts and Level of Service Report. Therefore, the following roadway segments were included within the project's study area:

- Copenhaver Road, from Graham Road to White Road

In addition to the above noted roadway segments, the following intersections are included within the study area:

- Graham Road & Copenhaver Road (unsignalized)
- Copenhaver Road & Project Driveway (unsignalized)

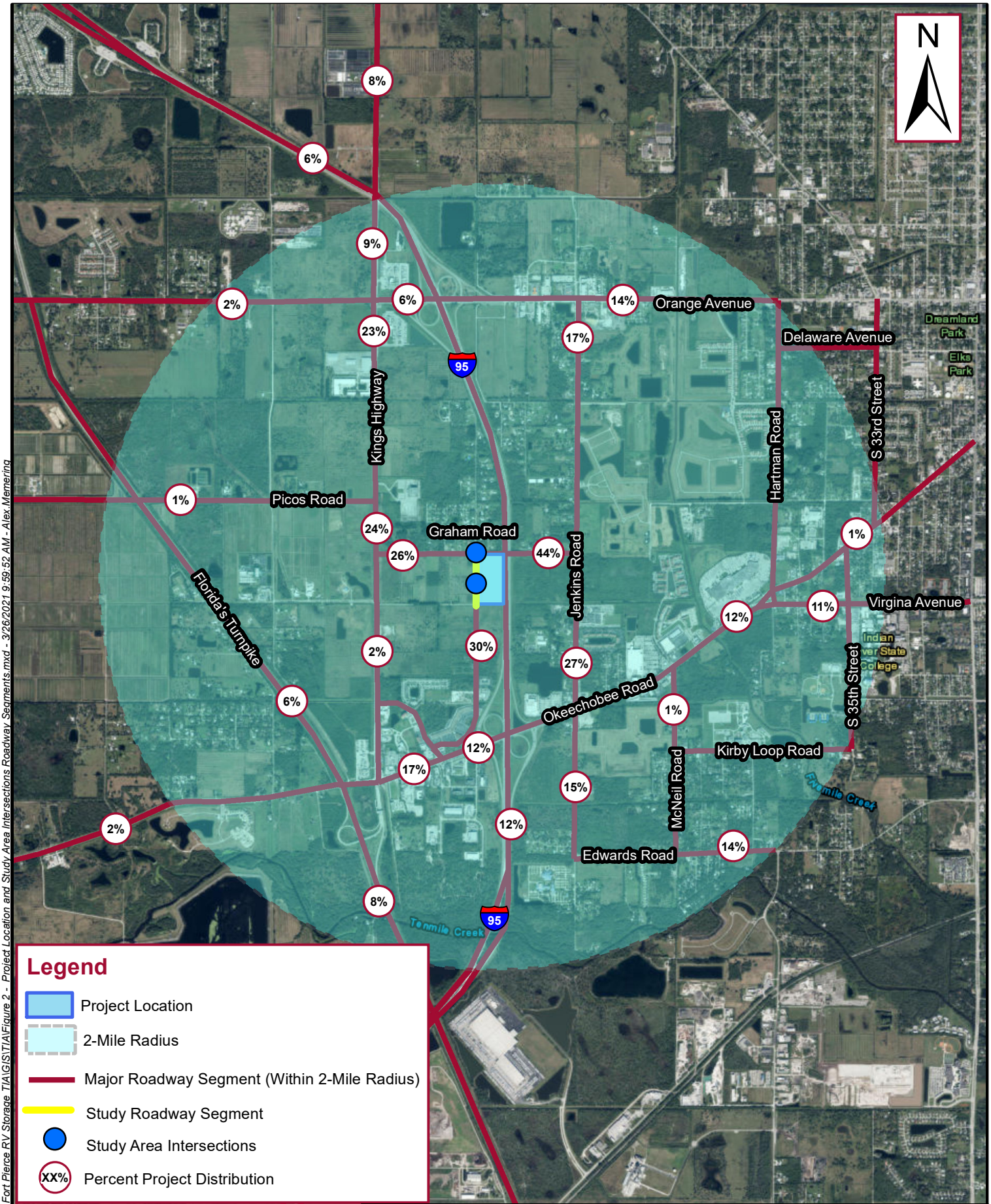
Table 2 illustrates the project impacts on roadways within a 2-mile radius per St. Lucie County Land Development Code 11.02.09 and the proposed study area. The site location, trip distribution, and study area for the traffic analysis is illustrated in **Figure 1**.

Table 2 – Study Area Determination

Roadway		Roadway Attributes [1]				Peak Hour Directional Maximum Service Volume [2]	PM Peak Hour Project Traffic				Significant Impact? [5]	Include In Study Area? [6]
From	To	Functional Classification	Area Type	Adopted LOS	Number of Lanes		% Assign [3]	NB / EB	SB / WB	Max % Impact [4]		
Copenhaver Road												
Graham Road	White Road	Local	U	D	2U	675	70.0%	4	4	0.59%	No	Yes [7]
Crossroads Parkway												
Okeechobee Road	Kings Highway	Local	U	D	2U	790	2.0%	0	0	0.00%	No	No
Delaware Avenue												
Hartman Road	S 33rd Street	Minor Collector	U	D	2U	600	2.0%	0	0	0.00%	No	No
Florida's Turnpike (SR 91)												
Orange Avenue	Okeechobee Road	Expressway	U	B	4D	2,260	6.0%	0	0	0.00%	No	No
Okeechobee Road	Glades Cut-Off Road	Expressway	U	D	4D	3,660	8.0%	0	0	0.00%	No	No
Graham Road												
Kings Highway	Jenkins Road	Local	U	D	2U	630	44.0%	2	2	0.32%	No	No
Hartman Road												
Okeechobee Road	Peterson Road	Minor Arterial	U	D	2U	750	0.0%	0	0	0.00%	No	No
Peterson Road	Deleware Avenue	Minor Arterial	U	D	2U	540	0.0%	0	0	0.00%	No	No
Deleware Avenue	Orange Avenue	Minor Arterial	U	D	2U	790	2.0%	0	0	0.00%	No	No
I-95												
Midway Road	Okeechobee Road	Interstate	U	C	6D	4,580	12.0%	1	1	0.02%	No	No
Okeechobee Road	Orange Avenue	Interstate	U	D	8D	7,320	0.0%	0	0	0.00%	No	No
Jenkins Road												
Edwards Road	Okeechobee Road	Minor Arterial	U	D	2U	880	15.0%	1	1	0.11%	No	No
Okeechobee Road	Graham Road	Minor Arterial	U	D	2U	920	27.0%	1	1	0.11%	No	No
Graham Road	Peterson Road	Minor Arterial	U	D	2U	630	17.0%	1	1	0.16%	No	No
Peterson Road	Orange Avenue	Minor Arterial	U	D	2U	920	14.0%	1	1	0.11%	No	No
Kings Highway												
Okeechobee Road	Crossroads Parkway	Principal Arterial	U	D	2U	830	0.0%	0	0	0.00%	No	No
Crossroads Parkway	Graham Road	Principal Arterial	U	D	2U	660	2.0%	0	0	0.00%	No	No
Graham Road	Picos Road	Principal Arterial	U	D	2U	660	24.0%	1	1	0.15%	No	No
Picos Road	Orange Avenue	Principal Arterial	U	D	2U	830	23.0%	1	1	0.12%	No	No
Orange Avenue	Angle Road	Principal Arterial	U	D	2U	870	9.0%	0	0	0.00%	No	No
Kirby Loop Road												
Edwards Road	35th Street	Minor Collector	U	D	2U	630	0.0%	0	0	0.00%	No	No
McNeil Road												
Okeechobee Road	Kirby Loop Road	Major Collector	U	D	2U	790	1.0%	0	0	0.00%	No	No
Kirby Loop Road	Edwards Road	Major Collector	U	D	2U	540	0.0%	0	0	0.00%	No	No
Okeechobee Road												
McCarty Road	Florida's Turnpike	Principal Arterial	R	B	4D	1,810	2.0%	0	0	0.00%	No	No
Florida's Turnpike	Kings Highway	Principal Arterial	U	C	4D	2,010	2.0%	0	0	0.00%	No	No
Kings Highway	Crossroads Parkway	Principal Arterial	U	D	6D	4,170	17.0%	1	1	0.02%	No	No
Crossroads Parkway	I-95	Principal Arterial	U	D	6D	4,170	6.0%	0	0	0.00%	No	No
I-95	Jenkins Road	Principal Arterial	U	D	6D	4,240	0.0%	0	0	0.00%	No	No
Jenkins Road	McNeil Road	Principal Arterial	U	D	6D	4,040	12.0%	1	1	0.02%	No	No
McNeil Road	Virginia Avenue	Principal Arterial	U	D	6D	3,170	12.0%	1	1	0.03%	No	No
Virginia Avenue	Hartman Road	Minor Arterial	U	D	4D	2,100	1.0%	0	0	0.00%	No	No
Hartman Road	35th St	Minor Arterial	U	D	4D	1,630	0.0%	0	0	0.00%	No	No
35th St	33rd St	Minor Arterial	U	D	4D	1,630	1.0%	0	0	0.00%	No	No
Orange Avenue												
Campbell Road	Kings Highway	Minor Arterial	R	D	2U	1,070	2.0%	0	0	0.00%	No	No
Kings Highway	I-95	Principal Arterial	U	D	4D	2,000	6.0%	0	0	0.00%	No	No
I-95	Jenkins Road	Principal Arterial	U	D	4D	2,000	0.0%	0	0	0.00%	No	No
Jenkins Road	Hartman Road	Principal Arterial	U	D	4D	2,000	14.0%	1	1	0.05%	No	No
Peters Road												
White Road	Crossroads Parkway	Local	U	D	2U	675	30.0%	2	2	0.30%	No	No
Picos Road												
Campbell Road	Kings Highway	Major Collector	U	D	2U	540	1.0%	0	0	0.00%	No	No
S 33rd Street												
Okeechobee Road	Deleware Avenue	Major Collector	U	D	2U	750	1.0%	0	0	0.00%	No	No
Deleware Avenue	Orange Avenue	Major Collector	U	D	2U	790	0.0%	0	0	0.00%	No	No
S 35th Street												
Kirby Loop Road	Cortez Boulevard	Minor Collector	U	D	2U	540	0.0%	0	0	0.00%	No	No
Cortez Boulevard	Virginia Avenue	Major Collector	U	D	2U	790	0.0%	0	0	0.00%	No	No
Virginia Avenue	Okeechobee Road	Major Collector	U	D	2U	750	1.0%	0	0	0.00%	No	No
Virginia Avenue												
Okeechobee Road	Hartman Road	Principal Arterial	U	D	6D	3,020	11.0%	1	1	0.03%	No	No
Hartman Road	S 35th Street	Principal Arterial	U	D	6D	3,020	10.0%	1	1	0.03%	No	No
S 35th Street	S 25th Street	Principal Arterial	U	D	6D	3,020	9.0%	0	0	0.00%	No	No

Notes:

1. The roadway attributes were obtained from the latest St. Lucie County Level of Service Report (Fall/Winter 2019/2020), 2010 FDOT St. Lucie County Federal Functional Classification Map, City of Fort Pierce Transportation Element, and supplemented with the 2020 FDOT Quality/LOS Tables.
2. Peak Hour Directional Maximum Service Volumes were determined using the sources listed in Note 1.
3. Percent project traffic assignment was calculated based on Greater Treasure Coast Regional Plannig Model (GTCRPM) Plots.
4. Percent impact was calculated as the maximum PM peak hour directional project traffic divided by the directional service volume.
5. A 1% significance test was perfomed for all major roadway segments within 1.0-mile radius of the project site.
6. The study area includes all roadway segments impacted by 1.0% or more of project traffic within 1.0-mile radius of the project site. Roadway segments that experience less than 1.0% impact from project traffic are considered deminimis impacts and are not included within the roadway study area.
7. The adjacent roadway segment of Copenhaver Road from Graham Road to White Road will be included within the study area as this the first accessed roadway from the site.



Kimley»Horn

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445 24th Street, Suite 200, Vero Beach FL 32960
Phone: 772 794 4100

FIGURE 1 - STUDY AREA, PROJECT LOCATION, AND TRIP DISTRIBUTION

FORT PIERCE RV STORAGE
CITY OF FORT PIERCE, FLORIDA

Project No.: 147814000	Not To Scale	March 2021	Page 7

Z:\OCA_Civil\147814000 - Fort Pierce RV Storage TIA\GIS\TIA\Figure 2 - Project Location and Study Area Intersections Roadway Segments.mxd - 3/26/2021 9:59:52 AM - Alex.Memering

HISTORICAL GROWTH RATE

The University of Florida's Bureau of Economic and Business Research (BEBR) analyzes population growth trends in counties throughout the state, along with other statistical metrics. To determine a reasonable background growth rate for the study area, the medium BEBR growth rate for St. Lucie County was calculated.

The medium BEBR growth rate for Year 2025 is approximately 1.55%. Therefore, a 1.55% annual background growth rate was applied for use on all roadway segments in this analysis to provide conservative results. Table 3 illustrates the growth rate calculations per BEBR population trends. Growth rate calculations are provided in **Table 3**.

Table 3 – Growth Rate Calculations

County	BEBR Pop Estimate	BEBR Population Projections (April 1)		
	Apr 1, 2019	Range	2025	2025
St. Lucie County	309,359	Low	319,300	0.46%
		Medium	342,900	1.55%
		High	364,600	2.55%

Source: Bureau of Economic and Business Research (BEBR) *Projections of Florida*

COMMITTED IMPROVEMENTS

Based on the St. Lucie Transportation Planning Organization (TPO) 2045 Long Range Transportation Plan (LRTP), the TPO's Transportation Improvement Program (TIP), and the Florida Department of Transportation (FDOT) 5-year work program, no improvements were located within the study area of the development.

ROADWAY SEGMENT ANALYSIS

The study area roadway segments were evaluated for level of service (LOS) and volume-to-capacity (v/c) ratios based on 2021 existing, 2024 future background, and 2024 future buildout conditions during both the AM and PM peak hours. AM peak hour (7AM-9AM) and PM (4PM-6PM) peak hour turning movement counts were performed at the study area intersections in March 2021. The turning movement counts were adjusted to peak season using adjustment factors published by FDOT. A peak season correctional factor from 2019 Florida Traffic Online was applied to the turning movement counts in order to grow the counts to typical peak season traffic conditions. The turning movement counts are provided in **Appendix C**.

AM and PM peak hour directional traffic volumes on the study area roadway segments were compared to the adopted LOS standard obtained from St. Lucie County and roadway service volumes from the 2020 FDOT Quality and Level of Service Handbook.

Based on 2021 existing conditions roadway segment analysis, all study area roadway segments are shown to operate acceptably during both the AM and PM peak hour. The existing AM and PM peak hour traffic conditions is provided in **Table 4** and **Table 5**, respectively.

FUTURE 2024 BACKGROUND TRAFFIC CONDITIONS ANALYSIS

The 2024 future background (without project) traffic volumes were developed by calculating the existing peak season traffic volumes and anticipated background growth applied through year 2024. An annual background growth rate of 1.55% was applied to the existing roadway segment volumes as previously calculated.

AM and PM peak hour directional traffic volumes on the study area roadway segments were compared to the adopted LOS standard as obtained from St. Lucie County guidelines and roadway service volumes from the 2020 FDOT Quality and Level of Service Handbook.

Table 6 and **Table 7** illustrate the 2024 future background (without project) traffic volumes and LOS analysis during AM and PM peak hour traffic conditions. The study area roadway segments are shown to operate acceptably during 2024 future background (without project) AM and PM peak hour traffic conditions.

FUTURE 2024 BUILDOUT TRAFFIC CONDITIONS ANALYSIS

The 2024 buildout (with project) traffic volumes were calculated as the sum of the background traffic volumes and project traffic. AM and PM peak hour directional traffic volumes on the study area roadway segments were compared to the adopted LOS standard as obtained from St. Lucie County guidelines and roadway service volumes from the 2020 FDOT Quality and Level of Service Handbook.

Table 8 and **Table 9** illustrate the 2024 buildout (with project) traffic volumes and LOS analysis during AM and PM peak hour traffic conditions. The study area roadway segments are shown to operate acceptably during 2024 buildout (with project) AM and PM peak hour traffic conditions.

Table 4 - Existing PM peak Hour Roadway Conditions

Roadway From	To	Roadway Attributes [1] Functional Classification	Area Type	Adopted LOS	Number of Lanes	Peak Hour Directional Maximum Service Volume [2]	Existing Peak Season Traffic Conditions Volumes [3] NB/EB	SB/WB	Max V/C Ratio	LOS
Copenhaver Road Graham Road	White Road	Local	U	D	2U	675	43	27	0.06	C

Notes:

1. The roadway attributes were obtained from the 2010 FDOT St. Lucie County Federal Functional Classification Map, St. Lucie County Transportation Element, and supplemented with the 2020 FDOT Quality/LOS Tables.
2. Peak Hour Directional Maximum Service Volumes were determined using the sources listed in Note 1.
3. Existing Peak Season Traffic Volumes obtained from turning movement counts performed in March 2021.

Table 5 - Existing PM peak Hour Roadway Conditions

Roadway From	To	Roadway Attributes [1] Functional Classification	Area Type	Adopted LOS	Number of Lanes	Peak Hour Directional Maximum Service Volume [2]	Existing Peak Season Traffic Conditions Volumes [3] NB/EB	SB/WB	Max V/C Ratio	LOS
Copenhaver Road Graham Road	White Road	Local	U	D	2U	675	41	47	0.07	C

Notes:

1. The roadway attributes were obtained from the 2010 FDOT St. Lucie County Federal Functional Classification Map, St. Lucie County Transportation Element, and supplemented with the 2020 FDOT Quality/LOS Tables.
2. Peak Hour Directional Maximum Service Volumes were determined using the sources listed in Note 1.
3. Existing Peak Season Traffic Volumes obtained from turning movement counts performed in March 2021.

Table 6 – Future Buildout AM Peak Hour Roadway Conditions

Roadway		Peak Hour Directional Maximum Service Volume [1]	Applied Growth Rate [2]	Future Background Peak Hour Traffic Conditions				AM Peak Hour Project Traffic			Future Buildout Peak Hour Traffic Conditions			
				Volumes [2]		Max V/C Ratio	LOS				Volumes [4]		Max V/C Ratio	LOS
From	To			NB / EB	SB / WB			% Assign [3]	NB / EB	SB / WB	NB / EB	SB / WB		
Copenhaver Road														
Graham Road	Project Driveway	675	1.55%	45	28	0.07	C	70.0%	2	2	47	30	0.07	C
Project Driveway	White Road	675	1.55%	45	28	0.07	C	30.0%	1	1	46	29	0.07	C

Notes:

1. The roadway attributes were obtained from the latest 2010 FDOT St. Lucie County Federal Functional Classification Map, St. Lucie County Transportation Element, and supplemented with the 2020 FDOT Quality/LOS Tables.

2. Peak Hour Directional Maximum Service Volumes were determined using the sources listed in Note 1.
3. Percent project traffic assignment was calculated as the maximum across roadway segment.
4. Buildout project traffic volumes are the summation of future background traffic and project traffic.

Table 7 – Future Buildout PM Peak Hour Roadway Conditions

Roadway		Peak Hour Directional Maximum Service Volume [1]	Applied Growth Rate [2]	Future Background Peak Hour Traffic Conditions				PM Peak Hour Project Traffic			Future Buildout Peak Hour Traffic Conditions			
				Volumes [2]		Max V/C Ratio	LOS				Volumes [4]		Max V/C Ratio	LOS
From	To			NB / EB	SB / WB			% Assign [3]	NB / EB	SB / WB	NB / EB	SB / WB		
Copenhaver Road														
Graham Road	Project Driveway	675	1.55%	43	49	0.07	C	70.0%	4	4	47	53	0.08	C
Project Driveway	White Road	675	1.55%	43	49	0.07	C	30.0%	2	2	45	51	0.08	C

Notes:

1. The roadway attributes were obtained from the latest 2010 FDOT St. Lucie County Federal Functional Classification Map, St. Lucie County Transportation Element, and supplemented with the 2020 FDOT Quality/LOS Tables.

2. Peak Hour Directional Maximum Service Volumes were determined using the sources listed in Note 1.
3. Percent project traffic assignment was calculated as the maximum across roadway segment.
4. Buildout project traffic volumes are the summation of future background traffic and project traffic.

INTERSECTION CAPACITY ANALYSIS

Intersection analyses was performed for the intersections within the project's study area. The intersection was evaluated for 2021 existing, 2024 future background (without project), and 2024 future buildout (with project) traffic conditions during both the AM and PM peak hour. AM peak hour (7AM-9AM) and PM (4PM-6PM) peak hour turning movement counts were performed at the study area intersections in March 2021. The turning movement counts were adjusted to peak season using adjustment factors published by FDOT. The turning movement counts are provided in **Appendix C**.

Intersection volume development worksheets detailing the future traffic development at the intersections are provided in **Appendix D**. The AM and PM peak hour intersection turning movement volumes at buildout for the study area intersections are illustrated in **Figure 2**.

2021 EXISTING TRAFFIC CONDITIONS ANALYSIS

Synchro (v10) software, which is based on *Highway Capacity Manual (2010*) was utilized to perform the intersection evaluations. Existing intersection geometry, peak hour factor and percent heavy vehicles (as obtained from the traffic counts) were input into Synchro (v10) for the analysis.

Table 8 details the intersection LOS results for 2021 existing traffic conditions. The study area intersection is shown to operate with an acceptable overall LOS and v/c ratio less than 1.0. Synchro 10 output is provided within **Appendix E**.

Table 8 – 2021 Existing Traffic Conditions Intersection Summary

Intersection	2021 Existing Conditions		
	Inter-section LOS	Inter-section Delay (S)	Max Movement V/C
AM Peak Hour Traffic			
Unsignalized[1] Graham Road & Copenhaver Road	B/B	10.7/11.2	0.07/0.07
PM Peak Hour Traffic			
Unsignalized[1] Graham Road & Copenhaver Road	B/B	10.2/11.0	0.06/0.03

Notes:
1. Intersection LOS and delay at unsignalized intersections are reported for the stop-controlled approaches only.

2024 FUTURE BACKGROUND TRAFFIC CONDITIONS ANALYSIS

The intersection of Graham Road and Copenhaver Road within the study area was evaluated for 2024 future background (without project) traffic conditions. An annual background growth rate of 1.55% was applied to the existing peak season volumes as outlined previously. **Table 9** details the results of the intersection analysis considering 2024 future background (without project) traffic volumes. The study area intersection is shown to operate with acceptable LOS, delays, and v/c ratios less than 1.0. Synchro 10 output is provided within **Appendix E**.

Table 9 – 2024 Future Background Traffic Conditions Intersection Summary

Intersection	2024 Future Background Conditions		
	Inter-section LOS	Inter-section Delay (S)	Max Movement V/C
AM Peak Hour Traffic			
Unsignalized[1]			
Graham Road & Copenhaver Road	B/B	10.8/11.4	0.08/0.08
PM Peak Hour Traffic			
Unsignalized[1]			
Graham Road & Copenhaver Road	B/B	10.2/11.1	0.06/0.03

Notes:
1. Intersection LOS and delay at unsignalized intersections are reported for the stop-controlled approaches only.

2024 FUTURE BUILDOUT TRAFFIC CONDITIONS ANALYSIS

The intersection and driveway within the study area was evaluated for 2024 buildout (with project) traffic conditions. Project traffic from the proposed development was added to the future background traffic volumes to calculate future buildout traffic volumes.

Table 10 details the results of the intersection analysis considering 2024 buildout (with project) traffic volumes. The study area intersection and project driveway are shown to operate with an acceptable level LOS and v/c ratio less than 1.0 upon buildout. Synchro 10 output is provided within **Appendix E**.

Table 10 – 2024 Future Buildout Traffic Conditions Intersection Summary

Intersection	2024 Future Buildout Conditions		
	Inter-section LOS	Inter-section Delay (S)	Inter-section V/C
AM Peak Hour Traffic			
Unsignalized[1]			
Graham Road & Copenhaver Road	B/B	10.9/11.5	0.08/0.08
Copenhaver Road & Project Driveway	A	9.7	0.01
PM Peak Hour Traffic			
Unsignalized[1]			
Graham Road & Copenhaver Road	B/B	10.5/11.2	0.08/0.03
Copenhaver Road & Project Driveway	A	9.7	0.01

Notes:
1. Intersection LOS and delay at unsignalized intersections are reported for the stop-controlled approaches only.

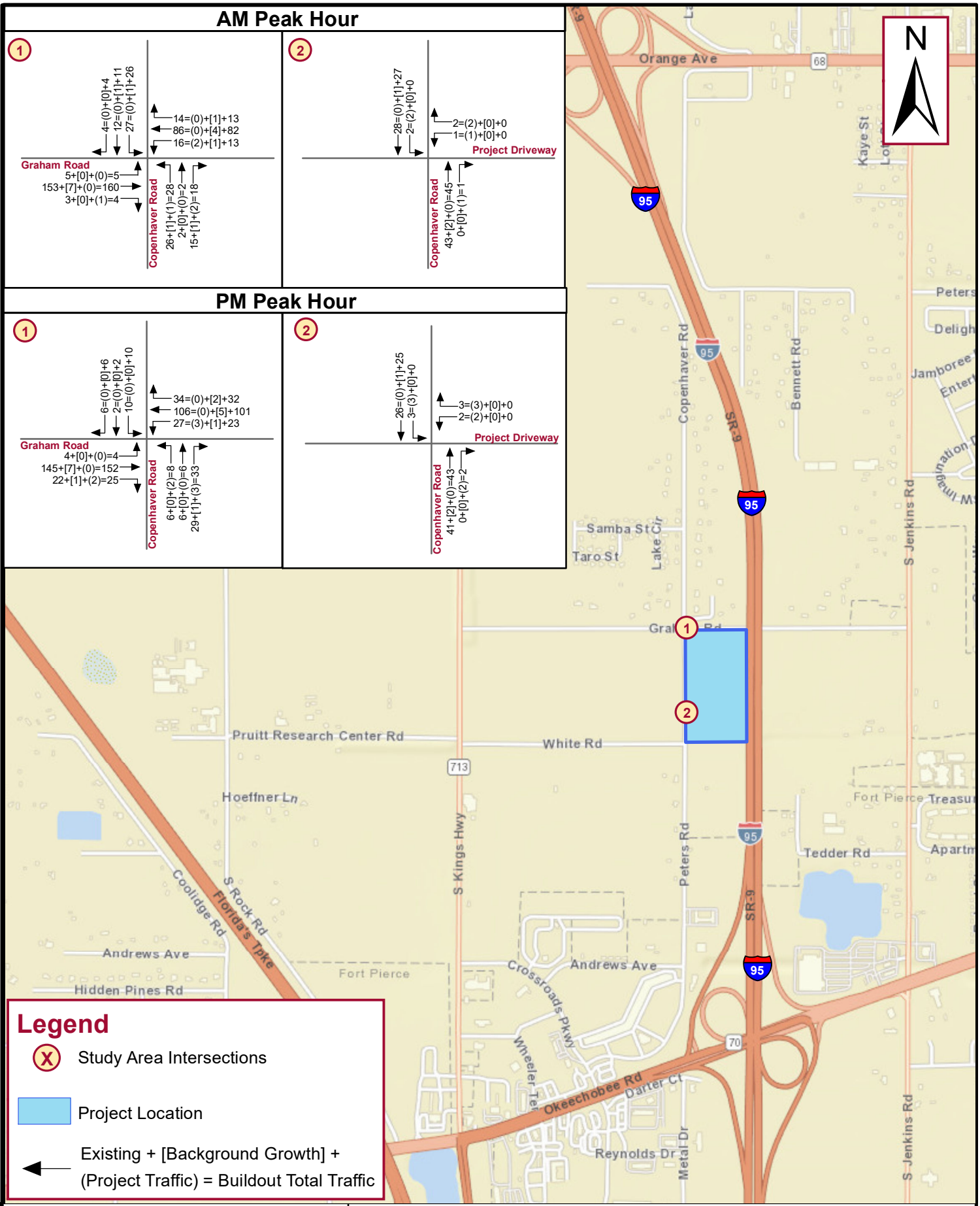


FIGURE 2 - AM & PM PEAK HOUR BUILDOUT TRAFFIC VOLUMES

FORT PIERCE RV STORAGE
CITY OF FORT PIERCE, FLORIDA

Kimley»Horn

© 2021 Kimley-Horn and Associates, Inc.
445 24th Street, Suite 200, Vero Beach FL 32960
Phone: 772 794 4100

Project No.: 147814000	Not To Scale	March 2021	Page 15

Z:\OCA_Civil\147814000 - Fort Pierce RV Storage TIA\GIS\TIA\Figure 2 - AM PM Peak Hour Buildout Traffic Volumes.mxd - 3/26/2021 10:02:24 AM - Alex.Memering

SITE ACCESS ANALYSIS

Access to the site will be provided via one full-access driveway onto Copenhaver Road. There will also be an emergency exit north of the main entrance on Copenhaver Road, but it was not be evaluated because it will not be used in typical conditions.

PROJECT DRIVEWAY AT PROPOSED FULL ACCESS DRIVEWAY

The observed traffic volumes on Copenhaver Road, as well as the projected ingress turning volumes at the proposed project driveway, were compared to the thresholds of the National Cooperative of Highway Research Programs (NCHRP) Report 457 for determination of whether a major road left-turn lane is required at a stop-controlled minor street intersection. Report NCHRP 457 compares the major street speed, approach volume, opposing volume, and left-turning volume to determine whether a dedicated left-turn lane is warranted on the major street approach. Based on the low ingress left-turn volumes projected at the project driveway, and the low existing traffic volumes on Copenhaver Road during the AM and PM peak hours, an exclusive southbound left-turn lane at the project driveway is not warranted based on the criteria within the NCHRP 457 analysis.

The observed traffic volumes on Copenhaver Road, as well as the projected ingress turning volumes at the proposed project driveway, were compared to the thresholds of the NCHRP Report 457 for determination of whether a major road right-turn lane is required at a stop-controlled minor street intersection. Report NCHRP 457 compares the major street speed, approach volume, and right-turning volume to determine whether a dedicated right-turn lane is warranted on the major street approach. Based on the low ingress right-turn volumes projected at the project driveway, and the low existing traffic volumes on Copenhaver Road during the AM and PM peak hours, an exclusive northbound right-turn lane at the project driveway is not warranted based on the criteria within the NCHRP 457 analysis.

The NCRHP Report 457 output for the southbound left-turn lane and northbound right-turn lane during the AM and PM peak hour are provided within **Appendix F**.

CONCLUSION

This traffic impact analysis was prepared to support the proposed Recreational Vehicle (RV) storage facility generally located on the south side of Graham Road, east of Copenhaver Road, and west of I-95 Turnpike in City of Fort Pierce, Florida. The project property is currently vacant and is in the process of being annexed into the City of Fort Pierce. The development is proposed to consist of ±503 RV storage spaces and anticipated to have a buildout year of 2024.

The analysis concludes that all road segments and intersections within the study area are anticipated to operate with acceptable LOS during both AM and PM peak hour 2021 existing, 2024 future background (without project), and 2024 future buildout traffic conditions.

Access to the site will be provided via one full-access driveway onto Copenhaver Road. There will also be an emergency exit north of the main entrance on Copenhaver Road, but it was not be evaluated because it will not be used in typical conditions. Based on the low ingress projected volumes at the project driveway on Copenhaver Road, no ingress turn lanes are warranted at the proposed project driveway.

The results within this report satisfy the requirements set forth by St. Lucie County for evaluating proposed development impacts.

APPENDICES

APPENDIX A:
Conceptual Site Plan

PRE-APP QUESTIONS:

1. WOULD THIS DEVELOPMENT TRIGGER A TRAFFIC STUDY?
2. WHAT ARE THE FIRE / LIFE SAFETY REQUIREMENTS? IN PARTICULAR, FOR SPRINKLERING OF THE CANOPIES OR IF FIRE HYDRANTS ARE REQUIRED AROUND THE SITE.
3. ARE THERE ANY OFF-SITE IMPROVEMENTS THAT ARE EXPECTED AS PART OF THIS DEVELOPMENT?
4. WHAT ARE THE SITE SCREENING AND SIGNAGE REQUIREMENTS. IN PARTICULAR, WE WOULD REQUEST VISIBILITY FROM I-95.

PROPOSED ENTRANCE
COPENHAVER RD
EMERGENCY SITE ACCESS ONLY
PROPOSED OFFICE
PROPOSED DUMP STATIONS
PROPOSED DUMPSTERS
PROPOSED PUMP ROOM
PROPOSED WASH STATIONS
PROPOSED DETENTION POND
TREE PROTECTION AREA
GRAHAM RD
PROPOSED SWALE
I-95

49
85
92
40
26
8
28
51
32

45.0'
40.0'

CANOPY SAMPLE



SITE DATA
SITE ADDRESS: 2192 COPENHAVER RD, FT PIERCE, FL
PARCEL ID: 2313432000000004

TOTAL SITE AREA: 17.375 AC
45' RV STORAGE: 443 SPACES
40' RV STORAGE: 60 SPACES
TOTAL RV STORAGE: 503 SPACES

ASSUMED ZONING: C-3 (GENERAL COMMERCIAL)

STORMWATER FACILITIES: ~3.74 AC
10-YR, 24-HOUR ASSUMED VOLUME: ≈8.57 AC-FT
25-YR, 72-HOUR ASSUMED VOLUME: ≈14.09 AC-FT

TREE PROTECTION AREA: ~3.03 AC

RV STORAGE - FT. PIERCE - CONCEPTUAL SITE PLAN

9 CANOPIES:
443 (11'X45') STALLS; 60 (11'X40' STALLS)

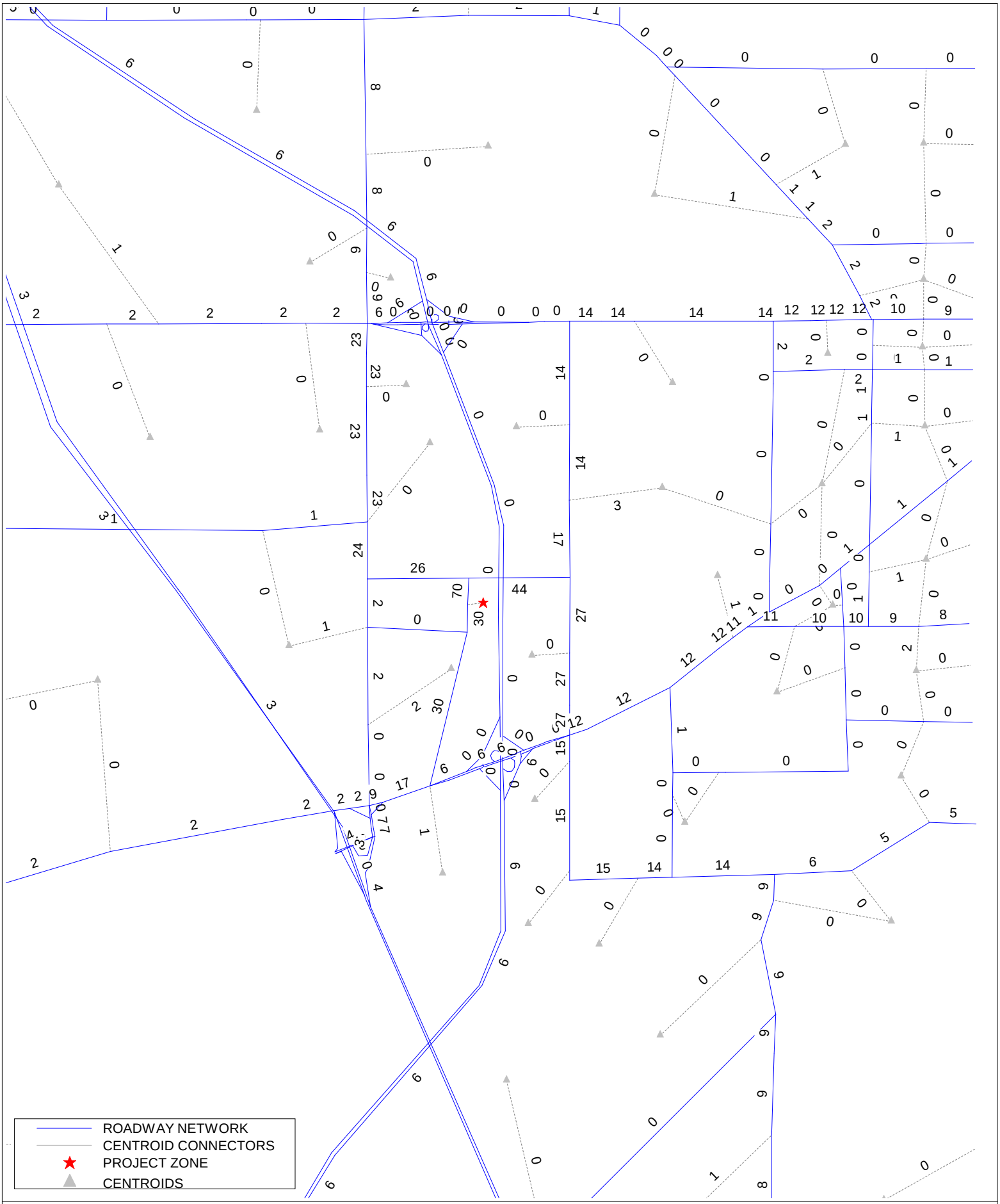
NORTH

GRAPHIC SCALE IN FEET
0 25 50 100

DATE: 11/30/2020

Kimley»Horn

APPENDIX B:
GTCRPM Model Output



MODEL RUN - FORT PIERCE RV STORAGE
TRAFFIC DISTRIBUTION (PERCENTAGES)
3/1/2021
C:\FSUTMS\D4\GTCRPM\NGTC33\Base\minor mods\OUTPUT\FINAL_LOADED_A05.NET

cube

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APPENDIX C:
Turning Movement Counts

AM and PM peak hour turning movement counts were performed on March 11, 2021.

		Graham Road & Copenhaver Road (AM Peak Hour)											
		Northbound			Southbound			Eastbound			Westbound		
Interval	Time	L	T	R	L	T	R	L	T	R	L	T	R
1	7:00	1	0	2	8	0	1	0	28	1	3	16	2
2	7:15	2	0	5	5	3	1	0	44	0	4	15	1
3	7:30	9	1	3	8	3	1	0	41	0	5	26	1
4	7:45	7	0	4	2	3	2	4	38	1	0	20	8
5	8:00	8	1	3	11	2	0	1	30	2	4	21	3
6	8:15	0	0	5	3	0	0	0	29	1	8	21	2
7	8:30	5	0	2	4	0	2	0	25	1	3	16	2
8	8:45	1	0	7	9	1	0	0	19	1	3	13	5
AM Peak Hour: 7:15AM - 8:15AM				PHF	0.90								
	PH Vol.	26	2	15	26	11	4	5	153	3	13	82	13

		Graham Road & Copenhaver Road (PM Peak Hour)											
		Northbound			Southbound			Eastbound			Westbound		
Interval	Time	L	T	R	L	T	R	L	T	R	L	T	R
1	16:00	1	0	2	3	2	1	2	37	3	3	24	3
2	16:15	2	1	2	3	1	2	0	27	4	4	23	7
3	16:30	2	3	5	1	0	4	3	34	7	5	37	7
4	16:45	1	1	10	5	1	2	1	38	7	7	16	7
5	17:00	3	2	6	2	0	0	0	28	4	7	21	8
6	17:15	0	0	8	2	1	0	0	45	4	4	27	10
7	17:30	2	1	6	2	0	2	2	31	4	10	26	8
8	17:45	3	0	10	6	0	2	1	23	2	8	25	4
PM Peak Hour: 4:30PM - 5:30PM				PHF	0.89								
	PH Vol.	6	6	29	10	2	6	4	145	22	23	101	32

		Project Driveway & Copenhaver Road (AM Peak Hour)											
		Northbound			Southbound			Eastbound			Westbound		
Interval	Time	L	T	R	L	T	R	L	T	R	L	T	R
1	7:00	0	3	0	0	4	0	0	0	0	0	0	0
2	7:15	0	7	0	0	7	0	0	0	0	0	0	0
3	7:30	0	13	0	0	8	0	0	0	0	0	0	0
4	7:45	0	11	0	0	4	0	0	0	0	0	0	0
5	8:00	0	12	0	0	8	0	0	0	0	0	0	0
6	8:15	0	5	0	0	9	0	0	0	0	0	0	0
7	8:30	0	7	0	0	4	0	0	0	0	0	0	0
8	8:45	0	8	0	0	5	0	0	0	0	0	0	0
AM Peak Hour: 7:15AM - 8:15AM													
	PH Vol.	0	43	0	0	27	0	0	0	0	0	0	0

		Project Driveway & Copenhaver Road (PM Peak Hour)											
		Northbound			Southbound			Eastbound			Westbound		
Interval	Time	L	T	R	L	T	R	L	T	R	L	T	R
1	16:00	0	3	0	0	8	0	0	0	0	0	0	0
2	16:15	0	5	0	0	8	0	0	0	0	0	0	0
3	16:30	0	10	0	0	4	0	0	0	0	0	0	0
4	16:45	0	12	0	0	8	0	0	0	0	0	0	0
5	17:00	0	11	0	0	9	0	0	0	0	0	0	0
6	17:15	0	8	0	0	4	0	0	0	0	0	0	0
7	17:30	0	9	0	0	5	0	0	0	0	0	0	0
8	17:45	0	13	0	0	0	0	0	0	0	0	0	0
PM Peak Hour: 4:30PM - 5:30PM													
	PH Vol.	0	41	0	0	25	0	0	0	0	0	0	0

APPENDIX D:
Intersection Volume Development Worksheets

INTERSECTION VOLUME DEVELOPMENT

Graham Road & Copenhaver Road

AM PEAK HOUR	Northbound			Southbound			Eastbound			Westbound		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Counted on 3/11/2021	26	2	15	26	11	4	5	153	3	13	82	13
Peak Season Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
2021 Peak Season Volumes	26	2	15	26	11	4	5	153	3	13	82	13
Annual Growth Rate	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%
2024 Background Growth	1	0	1	1	1	0	0	7	0	1	4	1
Traffic % Assignment	26%		44%						26%	44%		
Project Traffic Direction	OUT		OUT						IN	IN		
Project Traffic	1		2						1	2		
2024 Background Traffic	27	2	16	27	12	4	5	160	3	14	86	14
2024 Total Traffic	28	2	18	27	12	4	5	160	4	16	86	14

PM PEAK HOUR	Northbound			Southbound			Eastbound			Westbound		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Counted on 3/11/2021	6	6	29	10	2	6	4	145	22	23	101	32
Peak Season Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
2021 Peak Season Volumes	6	6	29	10	2	6	4	145	22	23	101	32
Annual Growth Rate	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%
2024 Background Growth	0	0	1	0	0	0	0	7	1	1	5	2
Traffic % Assignment	26%		44%						26%	44%		
Project Traffic Direction	OUT		OUT						IN	IN		
Project Traffic	2		3						2	3		
2024 Background Traffic	6	6	30	10	2	6	4	152	23	24	106	34
2024 Total Traffic	8	6	33	10	2	6	4	152	25	27	106	34

INTERSECTION VOLUME DEVELOPMENT

Copenhaver Road & Project Driveway

AM PEAK HOUR	Northbound			Southbound			Eastbound			Westbound		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Counted on 3/11/2021	0	43	0	0	27	0	0	0	0	0	0	0
Peak Season Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
2021 Peak Season Volumes	0	43	0	0	27	0	0	0	0	0	0	0
Annual Growth Rate	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%
2024 Background Growth	0	2	0	0	1	0	0	0	0	0	0	0
Traffic % Assignment			30%	70%						30%		70%
Project Traffic Direction			IN	IN						OUT		OUT
Project Traffic			1	2						1		2
2024 Background Traffic	0	45	0	0	28	0	0	0	0	0	0	0
2024 Total Traffic	0	45	1	2	28	0	0	0	0	1	0	2

PM PEAK HOUR	Northbound			Southbound			Eastbound			Westbound		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Counted on 3/11/2021	0	41	0	0	25	0	0	0	0	0	0	0
Peak Season Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
2021 Peak Season Volumes	0	41	0	0	25	0	0	0	0	0	0	0
Annual Growth Rate	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%
2024 Background Growth	0	2	0	0	1	0	0	0	0	0	0	0
Traffic % Assignment			30%	70%						30%		70%
Project Traffic Direction			IN	IN						OUT		OUT
Project Traffic			2	3						2		3
2024 Background Traffic	0	43	0	0	26	0	0	0	0	0	0	0
2024 Total Traffic	0	43	2	3	26	0	0	0	0	2	0	3

APPENDIX E:
Synchro (v10) Output

AM Peak Hour

2021 Existing Traffic Conditions



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	5	153	3	13	82	13	26	2	15	26	11	4
Future Volume (vph)	5	153	3	13	82	13	26	2	15	26	11	4
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	6	170	3	14	91	14	29	2	17	29	12	4
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	179	0	0	119	0	0	48	0	0	45	0
Sign Control		Free			Free			Stop			Stop	

Intersection Summary
Control Type: Unsignalized

Intersection	
Int Delay, s/veh	3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	5	153	3	13	82	13	26	2	15	26	11	4
Future Vol, veh/h	5	153	3	13	82	13	26	2	15	26	11	4
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	6	170	3	14	91	14	29	2	17	29	12	4

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	105	0	0	173	0	0	318	317	172	319	311	98
Stage 1	-	-	-	-	-	-	184	184	-	126	126	-
Stage 2	-	-	-	-	-	-	134	133	-	193	185	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1486	-	-	1404	-	-	635	599	872	634	604	958
Stage 1	-	-	-	-	-	-	818	747	-	878	792	-
Stage 2	-	-	-	-	-	-	869	786	-	809	747	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1486	-	-	1404	-	-	615	590	872	613	595	958
Mov Cap-2 Maneuver	-	-	-	-	-	-	615	590	-	613	595	-
Stage 1	-	-	-	-	-	-	815	744	-	874	783	-
Stage 2	-	-	-	-	-	-	842	777	-	788	744	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.2	0.9	10.7	11.2
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	684	1486	-	-	1404	-	-	630
HCM Lane V/C Ratio	0.07	0.004	-	-	0.01	-	-	0.072
HCM Control Delay (s)	10.7	7.4	0	-	7.6	0	-	11.2
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.2	0	-	-	0	-	-	0.2

2024 Future Year Background Traffic Conditions



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	5	160	3	14	86	14	27	2	16	27	12	4
Future Volume (vph)	5	160	3	14	86	14	27	2	16	27	12	4
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	6	178	3	16	96	16	30	2	18	30	13	4
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	187	0	0	128	0	0	50	0	0	47	0
Sign Control		Free			Free			Stop			Stop	

Intersection Summary
Control Type: Unsignalized

Intersection	
Int Delay, s/veh	3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	5	160	3	14	86	14	27	2	16	27	12	4
Future Vol, veh/h	5	160	3	14	86	14	27	2	16	27	12	4
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	6	178	3	16	96	16	30	2	18	30	13	4

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	112	0	0	181	0	0	337	336	180	338	329	104
Stage 1	-	-	-	-	-	-	192	192	-	136	136	-
Stage 2	-	-	-	-	-	-	145	144	-	202	193	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1478	-	-	1394	-	-	617	585	863	616	590	951
Stage 1	-	-	-	-	-	-	810	742	-	867	784	-
Stage 2	-	-	-	-	-	-	858	778	-	800	741	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1478	-	-	1394	-	-	595	575	863	594	580	951
Mov Cap-2 Maneuver	-	-	-	-	-	-	595	575	-	594	580	-
Stage 1	-	-	-	-	-	-	806	738	-	863	775	-
Stage 2	-	-	-	-	-	-	829	769	-	777	737	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.2	0.9	10.8	11.4
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	668	1478	-	-	1394	-	-	611
HCM Lane V/C Ratio	0.075	0.004	-	-	0.011	-	-	0.078
HCM Control Delay (s)	10.8	7.4	0	-	7.6	0	-	11.4
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.2	0	-	-	0	-	-	0.3

2024 Future Buildout Conditions



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	5	160	3	16	86	14	28	2	18	27	12	4
Future Volume (vph)	5	160	3	16	86	14	28	2	18	27	12	4
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	2%	2%	25%	13%	2%	2%	4%	2%	11%	2%	2%	2%
Adj. Flow (vph)	6	178	3	18	96	16	31	2	20	30	13	4
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	187	0	0	130	0	0	53	0	0	47	0
Sign Control		Free			Free			Stop			Stop	

Intersection Summary

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	3.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	5	160	3	16	86	14	28	2	18	27	12	4
Future Vol, veh/h	5	160	3	16	86	14	28	2	18	27	12	4
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	2	2	25	13	2	2	4	2	11	2	2	2
Mvmt Flow	6	178	3	18	96	16	31	2	20	30	13	4

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	112	0	0	181	0	0	341	340	180	343	333	104
Stage 1	-	-	-	-	-	-	192	192	-	140	140	-
Stage 2	-	-	-	-	-	-	149	148	-	203	193	-
Critical Hdwy	4.12	-	-	4.23	-	-	7.14	6.52	6.31	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.14	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.14	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.317	-	-	3.536	4.018	3.399	3.518	4.018	3.318
Pot Cap-1 Maneuver	1478	-	-	1331	-	-	609	582	840	611	587	951
Stage 1	-	-	-	-	-	-	805	742	-	863	781	-
Stage 2	-	-	-	-	-	-	849	775	-	799	741	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1478	-	-	1331	-	-	587	571	840	586	576	951
Mov Cap-2 Maneuver	-	-	-	-	-	-	587	571	-	586	576	-
Stage 1	-	-	-	-	-	-	801	738	-	859	770	-
Stage 2	-	-	-	-	-	-	819	764	-	774	737	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.2	1.1	10.9	11.5
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	661	1478	-	-	1331	-	-	605
HCM Lane V/C Ratio	0.081	0.004	-	-	0.013	-	-	0.079
HCM Control Delay (s)	10.9	7.4	0	-	7.7	0	-	11.5
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.3	0	-	-	0	-	-	0.3



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	1	2	45	1	2	28
Future Volume (vph)	1	2	45	1	2	28
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	100%	100%	2%	100%	100%	2%
Adj. Flow (vph)	1	2	50	1	2	31
Shared Lane Traffic (%)						
Lane Group Flow (vph)	3	0	51	0	0	33
Sign Control	Stop		Free			Free

Intersection Summary

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	0.6

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	1	2	45	1	2	28
Future Vol, veh/h	1	2	45	1	2	28
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	100	100	2	100	100	2
Mvmt Flow	1	2	50	1	2	31

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	86	51	0	0	51	0
Stage 1	51	-	-	-	-	-
Stage 2	35	-	-	-	-	-
Critical Hdwy	7.4	7.2	-	-	5.1	-
Critical Hdwy Stg 1	6.4	-	-	-	-	-
Critical Hdwy Stg 2	6.4	-	-	-	-	-
Follow-up Hdwy	4.4	4.2	-	-	3.1	-
Pot Cap-1 Maneuver	722	797	-	-	1104	-
Stage 1	771	-	-	-	-	-
Stage 2	785	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	721	797	-	-	1104	-
Mov Cap-2 Maneuver	721	-	-	-	-	-
Stage 1	771	-	-	-	-	-
Stage 2	783	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9.7	0	0.6
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	770	1104	-
HCM Lane V/C Ratio	-	-	0.004	0.002	-
HCM Control Delay (s)	-	-	9.7	8.3	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0	0	-

PM Peak Hour

2021 Existing Traffic Conditions



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	4	145	22	23	101	32	6	6	29	10	2	6
Future Volume (vph)	4	145	22	23	101	32	6	6	29	10	2	6
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Adj. Flow (vph)	4	163	25	26	113	36	7	7	33	11	2	7
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	192	0	0	175	0	0	47	0	0	20	0
Sign Control		Free			Free			Stop			Stop	

Intersection Summary
Control Type: Unsignalized

Intersection	
Int Delay, s/veh	2.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	4	145	22	23	101	32	6	6	29	10	2	6
Future Vol, veh/h	4	145	22	23	101	32	6	6	29	10	2	6
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	4	163	25	26	113	36	7	7	33	11	2	7

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	149	0	0	188	0	0	372	385	176	387	379	131
Stage 1	-	-	-	-	-	-	184	184	-	183	183	-
Stage 2	-	-	-	-	-	-	188	201	-	204	196	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1432	-	-	1386	-	-	585	549	867	572	553	919
Stage 1	-	-	-	-	-	-	818	747	-	819	748	-
Stage 2	-	-	-	-	-	-	814	735	-	798	739	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1432	-	-	1386	-	-	568	536	867	535	540	919
Mov Cap-2 Maneuver	-	-	-	-	-	-	568	536	-	535	540	-
Stage 1	-	-	-	-	-	-	816	745	-	817	732	-
Stage 2	-	-	-	-	-	-	789	720	-	759	737	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.2	1.1	10.2	11
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	743	1432	-	-	1386	-	-	622
HCM Lane V/C Ratio	0.062	0.003	-	-	0.019	-	-	0.033
HCM Control Delay (s)	10.2	7.5	0	-	7.6	0	-	11
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.2	0	-	-	0.1	-	-	0.1

2024 Future Year Background Traffic Conditions



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	4	152	23	24	106	34	6	6	30	10	2	6
Future Volume (vph)	4	152	23	24	106	34	6	6	30	10	2	6
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Adj. Flow (vph)	4	171	26	27	119	38	7	7	34	11	2	7
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	201	0	0	184	0	0	48	0	0	20	0
Sign Control		Free			Free			Stop			Stop	

Intersection Summary
Control Type: Unsignalized

Intersection	
Int Delay, s/veh	2.1

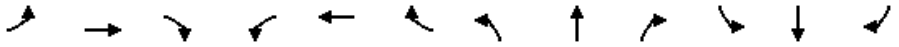
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	4	152	23	24	106	34	6	6	30	10	2	6
Future Vol, veh/h	4	152	23	24	106	34	6	6	30	10	2	6
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	4	171	26	27	119	38	7	7	34	11	2	7

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	157	0	0	197	0	0	389	403	184	405	397	138
Stage 1	-	-	-	-	-	-	192	192	-	192	192	-
Stage 2	-	-	-	-	-	-	197	211	-	213	205	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1423	-	-	1376	-	-	570	536	858	556	540	910
Stage 1	-	-	-	-	-	-	810	742	-	810	742	-
Stage 2	-	-	-	-	-	-	805	728	-	789	732	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1423	-	-	1376	-	-	553	523	858	519	527	910
Mov Cap-2 Maneuver	-	-	-	-	-	-	553	523	-	519	527	-
Stage 1	-	-	-	-	-	-	808	740	-	808	726	-
Stage 2	-	-	-	-	-	-	779	712	-	749	730	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.2	1.1	10.2	11.1
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	733	1423	-	-	1376	-	-	607
HCM Lane V/C Ratio	0.064	0.003	-	-	0.02	-	-	0.033
HCM Control Delay (s)	10.2	7.5	0	-	7.7	0	-	11.1
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.2	0	-	-	0.1	-	-	0.1

2024 Future Buildout Conditions



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	4	152	25	27	106	34	8	6	33	10	2	6
Future Volume (vph)	4	152	25	27	106	34	8	6	33	10	2	6
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Heavy Vehicles (%)	2%	2%	8%	11%	2%	2%	25%	2%	9%	2%	2%	2%
Adj. Flow (vph)	4	171	28	30	119	38	9	7	37	11	2	7
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	203	0	0	187	0	0	53	0	0	20	0
Sign Control		Free			Free			Stop			Stop	

Intersection Summary

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	2.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	4	152	25	27	106	34	8	6	33	10	2	6
Future Vol, veh/h	4	152	25	27	106	34	8	6	33	10	2	6
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	2	2	8	11	2	2	25	2	9	2	2	2
Mvmt Flow	4	171	28	30	119	38	9	7	37	11	2	7

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	157	0	0	199	0	0	396	410	185	413	405	138
Stage 1	-	-	-	-	-	-	193	193	-	198	198	-
Stage 2	-	-	-	-	-	-	203	217	-	215	207	-
Critical Hdwy	4.12	-	-	4.21	-	-	7.35	6.52	6.29	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.35	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.35	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.299	-	-	3.725	4.018	3.381	3.518	4.018	3.318
Pot Cap-1 Maneuver	1423	-	-	1321	-	-	525	531	840	549	535	910
Stage 1	-	-	-	-	-	-	759	741	-	804	737	-
Stage 2	-	-	-	-	-	-	749	723	-	787	731	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1423	-	-	1321	-	-	508	516	840	508	520	910
Mov Cap-2 Maneuver	-	-	-	-	-	-	508	516	-	508	520	-
Stage 1	-	-	-	-	-	-	757	739	-	802	719	-
Stage 2	-	-	-	-	-	-	723	705	-	743	729	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.2	1.3	10.5	11.2
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	705	1423	-	-	1321	-	-	598
HCM Lane V/C Ratio	0.075	0.003	-	-	0.023	-	-	0.034
HCM Control Delay (s)	10.5	7.5	0	-	7.8	0	-	11.2
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.2	0	-	-	0.1	-	-	0.1



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	2	3	43	2	3	26
Future Volume (vph)	2	3	43	2	3	26
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89
Heavy Vehicles (%)	100%	100%	2%	100%	100%	2%
Adj. Flow (vph)	2	3	48	2	3	29
Shared Lane Traffic (%)						
Lane Group Flow (vph)	5	0	50	0	0	32
Sign Control	Stop		Free			Free

Intersection Summary
Control Type: Unsignalized

Intersection	
Int Delay, s/veh	0.9

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	2	3	43	2	3	26
Future Vol, veh/h	2	3	43	2	3	26
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	100	100	2	100	100	2
Mvmt Flow	2	3	48	2	3	29

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	84	49	0	0	50	0
Stage 1	49	-	-	-	-	-
Stage 2	35	-	-	-	-	-
Critical Hdwy	7.4	7.2	-	-	5.1	-
Critical Hdwy Stg 1	6.4	-	-	-	-	-
Critical Hdwy Stg 2	6.4	-	-	-	-	-
Follow-up Hdwy	4.4	4.2	-	-	3.1	-
Pot Cap-1 Maneuver	724	800	-	-	1105	-
Stage 1	773	-	-	-	-	-
Stage 2	785	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	722	800	-	-	1105	-
Mov Cap-2 Maneuver	722	-	-	-	-	-
Stage 1	773	-	-	-	-	-
Stage 2	783	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9.7	0	0.9
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	767	1105	-
HCM Lane V/C Ratio	-	-	0.007	0.003	-
HCM Control Delay (s)	-	-	9.7	8.3	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0	0	-

APPENDIX F:
NCHRP Report 457 Output

NCHRP 457 - Graham Rd Copenhaver Rd
Southbound Left-Turn Lane
AM Peak Hour

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

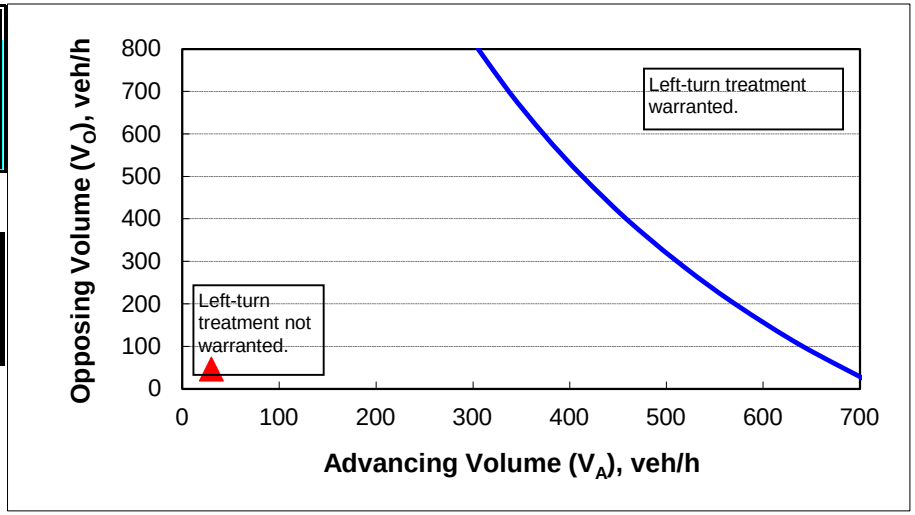
2-lane roadway (English)

INPUT

Variable	Value
85th percentile speed, mph:	35
Percent of left-turns in advancing volume (V_A), %:	7%
Advancing volume (V_A), veh/h:	30
Opposing volume (V_O), veh/h:	46

OUTPUT

Variable	Value
Limiting advancing volume (V_A), veh/h:	684
Guidance for determining the need for a major-road left-turn bay:	
Left-turn treatment NOT warranted.	



CALIBRATION CONSTANTS

Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

NCHRP 457 - Graham Rd Copenhaver Rd
Southbound Left-Turn Lane
PM Peak Hour

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

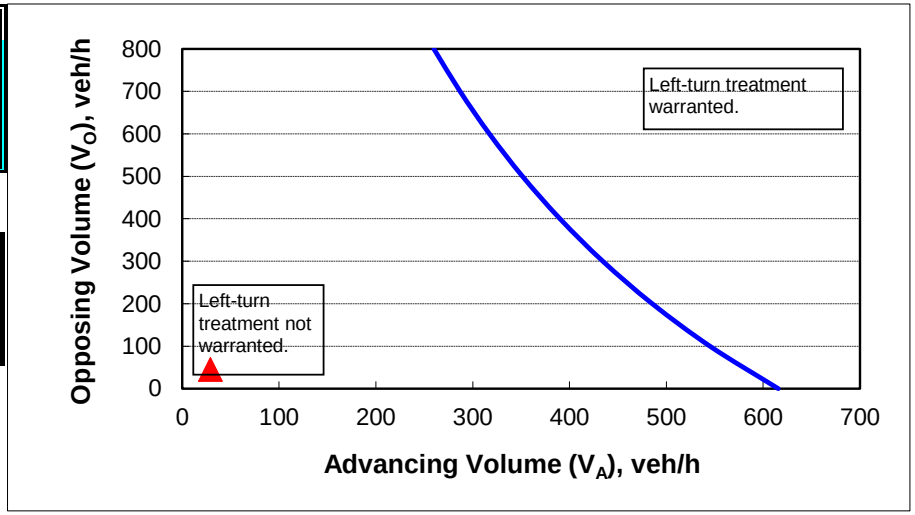
2-lane roadway (English)

INPUT

Variable	Value
85th percentile speed, mph:	35
Percent of left-turns in advancing volume (V_A), %:	10%
Advancing volume (V_A), veh/h:	29
Opposing volume (V_O), veh/h:	45

OUTPUT

Variable	Value
Limiting advancing volume (V_A), veh/h:	582
Guidance for determining the need for a major-road left-turn bay:	
Left-turn treatment NOT warranted.	



CALIBRATION CONSTANTS

Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

NCHRP 457 - Copenhaver Road Project Driveway
Northbound Right-Turn Lane
AM Peak Hour

Figure 2 - 6. Guideline for determining the need for a major-road right-turn bay at a two-way stop-controlled intersection.

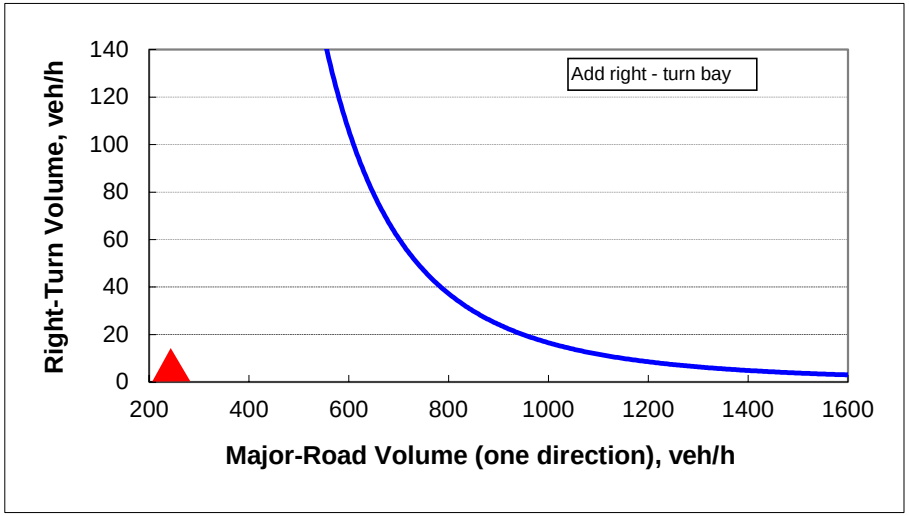
INPUT

Roadway geometry:	2-lane roadway

Variable	Value
Major-road speed, mph:	35
Major-road volume (one direction), veh/h:	45
Right-turn volume, veh/h:	1

OUTPUT

Variable	Value
Limiting right-turn volume, veh/h:	1304659
Guidance for determining the need for a major-road right-turn bay for a 2-lane roadway:	
Do NOT add right-turn bay.	



NCHRP 457 - Copenhaver Road Project Driveway
Northbound Right-Turn Lane
PM Peak Hour

Figure 2 - 6. Guideline for determining the need for a major-road right-turn bay at a two-way stop-controlled intersection.

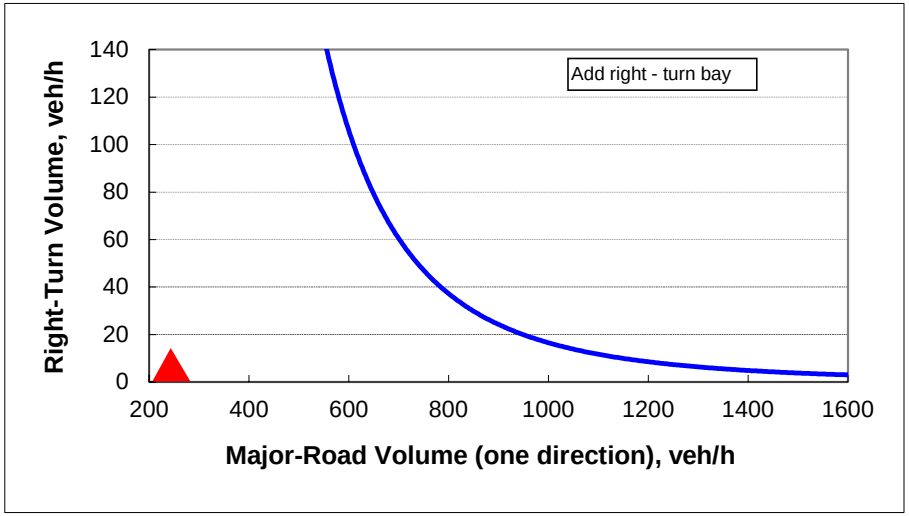
INPUT

Roadway geometry:	2-lane roadway

Variable	Value
Major-road speed, mph:	35
Major-road volume (one direction), veh/h:	43
Right-turn volume, veh/h:	2

OUTPUT

Variable	Value
Limiting right-turn volume, veh/h:	1539188
Guidance for determining the need for a major-road right-turn bay for a 2-lane roadway:	
Do NOT add right-turn bay.	



Fort Pierce RV Storage
CONCEPTUAL Drainage Report
Fort Pierce, FL
Drainage Report
KHA No: 147814000

Prepared For:
SFWMD
NSLWCD
City of Fort Pierce

Prepared By:
Kimley-Horn and Associates, Inc.
445 24st Street, Suite 200
Vero Beach, Florida 32960

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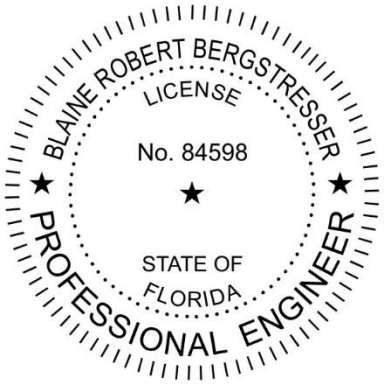
Kimley-Horn Project #: 147814000

FORT PIERCE RV STORAGE
FORT PIERCE, FL
DRAINAGE SUMMARY

Prepared For:
SFWMD
NSLWCD
City of Fort Pierce

Prepared By:
Kimley-Horn and Associates, Inc.
445 24st Street, Suite 200
Vero Beach, Florida 32962

This item has been digitally signed and sealed by Blaine Bergstresser, P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



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C. CURVE NUMBER 9
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APPENDIX

A. VICINITY MAPS

- General Location Map
- NRCS Soil Resource Report
- FEMA F.I.R.M.
- SFWMD Rainfall Maps

B. PRE-DEVELOPMENT CALCULATIONS

- Curve Number Calculations
- Time of Concentration Calculations
- Runoff Calculations
- Stage Storage Calculations
- Water Quality and Treatment Volume

C. POST-DEVELOPMENT CALCULATIONS

- Estimated Curve Number Calculations
- Estimated Runoff Calculations

D. SUPPORTING DOCUMENTATION

- Existing SFWMD ERP #56-100483-P

Kimley»Horn

FORT PIERCE RV STORAGE
Drainage Summary

INTRODUCTION

The drainage report is prepared to present the design of the storm water management system to serve the proposed Fort Pierce RV Storage project in Fort Pierce, FL.

The subject site consists of 756,855 square feet (approx. 17.38 acres) of undeveloped land. The site was originally used as pastureland for cattle, now the site contains agricultural pastures and woodlands. The proposed development consists of approximately 503 total RV storage spaces and 3.03 acres of proposed tree protection area at the Northwest corner of the site.

All elevations shown herein are shown in NAVD 88 unless otherwise noted.

SITE LOCATION

The general location of the proposed project site in Section 13, Township 35 South, Range 39 East in the City of Fort Pierce, St. Lucie County, Florida. The site is located at the corner of Peters Road and Graham Road to the west of Interstate 95. See **Appendix A** for General Location Map.

EXISTING SITE DESCRIPTION

A. EXISTING SITE AREA SUMMARY

The subject site consists of 756,855 square feet (approx. 17.38 acres) of undeveloped land that contains woodlands and agricultural pastures.

Below is the summary of the pre-development impervious and pervious areas:

Table 1:

Pre-Development Site:	**Onsite**
Pavement	0.00 ac
Total Impervious area (A)	**0.00 ac**
Pervious Area	17.38 ac
Total Pervious area (B)	**17.38 ac**
Total Site Area (A + B)	**17.38 ac**
% Total Impervious	**0.00%**
% Pervious	**100.00%**

B. TOPOGRAPHY

Survey data shows average existing site grades range from approximately +/- 13.0 ft to +/- 18.0 ft. with an average existing site grade of approximately +/- 14.0 ft. The sight slopes south with the high points on site being located to the north by the existing wooded area. There is a an existing swale located in the center of the site approximately

100 feet south of the wooded area border that runs south through the property and into the bordering canal (NSLRWCD Canal No. 37).

C. EXISTING LAND USE

The total land area of the project is +/- 17.38 acres and the vacant land consists of undeveloped gently sloping woodlands and agricultural pastures.

D. SOILS

The Soil Survey for this site located within Fort Pierce, Florida, as prepared by the United States Department of Agriculture (USDA), Natural Resource Conversation Service (NRCS), indicates the near surface soils consist of the following soils. Andreyev Engineering, Inc. (AEI) performed a geotechnical engineering investigation for the proposed site. See **Appendix G** for geotechnical report.

- Chobee Loamy Sand (#11) – Hydrologic Group C/D
- Wabasso Sand (#48) – Hydrologic Group C/D
- Winder Loamy Sand (#55) – Hydrologic Group C/D

E. EXISTING DRAINAGE PATTERN

The undeveloped site has one distinct drainage pattern, a large swale in the center of the site. The onsite runoff and discharge are collected via the onsite swale and ultimately discharged into the bordering NSLRWCD Canal No. 37. There is also a portion of the western portion of the site that discharges into the surrounding offsite swales along Peters Road, but these onsite swales ultimately discharge into the canal as well. Please refer to **Appendix C** for the Basin Map.

F. CURVE NUMBER

The site primarily contains Hydrologic Type “C/D” soil. A CN value of 80 was assumed for pervious areas and a CN value of 98 was assumed for impervious areas. Weighted CN values were calculated for each drainage basin as shown in Table 2 below. The CN calculations for the pre-development conditions can be found in **Appendix B**

G. TIME OF CONCENTRATION

The time of concentration (Tc) for the onsite basin was determined using the TR-55 method. A maximum sheet flow of 300 feet and shallow concentrated flow were calculated to determine the times as shown in Table 2 below. The Tc calculations for the pre-development conditions can be found in **Appendix B**.

Table 3:

Pre-Development Site:	Basin Area (ac)	Tc (min)	CN
Onsite	17.448	70.18	80

H. FLOOD PLAIN COMPENSATION

The site is in Flood Zone X per FEMA. Flood Zone X states that the area was determined to be outside the 0.2% annual chance floodplain.

PROPOSED SITE DESCRIPTION

A. PROPOSED SITE AREA SUMMARY

The proposed site shall consist of a 503 RV storage spaces with canopies, a small office building, a fenced tree protection area, one dry detention pond and one wet detention pond. The stormwater design implemented for the site shall consist of a dry pond located along the eastern border that collects the stormwater from the site and channels it into the southern wet detention pond. The wet detention pond will consist of approximately 3.52 acres and will contain a control structure to limit discharge into the bordering NSLRWCD Canal 37.

The post-development discharge rates for the proposed site will not exceed more than 2.0 inches of depth over the area served for any 24-hour period from the 10-year frequency, 72-hour duration rainfall event. For the proposed site, this comes out to 7.65 ac-ft in any 24-hour period. The criteria for the limited discharge rates was based on the drainage connection requirements set forth by North St. Lucie River Water Canal District.

Below are the estimates of the post-development impervious and pervious areas:

Table 4:

Post-Development Site:	**Onsite Basin**
Pavement	9.51 ac
Building	0.02 ac
Water Surface (Top of Bank)	3.615 ac
Total Impervious Area (A)	**13.145 ac**
Pervious Area	4.30 ac
Total Pervious Area (B)	**4.30 ac**
Total Site Area (A+B)	**17.45 ac**
% Total Impervious	**75.34%**
% Pervious	**24.66%**

B. POST DEVELOPMENT BASINS

The post development site can be described as having one distinct drainage basin. The existing basin pattern is consistent with the proposed post development drainage basin pattern, where the onsite runoff will discharge into the dry/wet ponds before ultimately discharging into the adjacent NSLRWCD Canal 37.

C. CURVE NUMBER

The post-development consists of a "full buildout" of the site. A CN value of 98 was used for all impervious area. A CN value of 80 was used for all pervious area. Please see attached CN calculations in **Appendix D**.

D. TIME OF CONCENTRATION

Time of concentration (Tc) for the onsite area was determined using the TR-55 method. A maximum sheet flow of 300 feet and shallow concentrated flow were calculated to determine the times as shown in Table 4 below. The Tc value was less than the minimum allowable Tc, therefore a Tc value of 10 minutes was used for the onsite and offsite roadway. Please see attached Tc calculations in **Appendix D**.

E. REQUIRED TREATMENT VOLUME (TV)

The proposed system is to provide sufficient water quality treatment per the City of Fort Pierce and SFWMD ERP criteria. The proposed stormwater design is to provide storage for the greater of 1 inch of runoff for the total drainage area or 2.5 inches for the total impervious area. This was determined to be 2.511 ac-ft for the onsite basin based on an overall site basin area of 17.45 acres with an estimated 69% impervious area.

Per SFWMD OFW criteria, the design water quality retention volume is to be 150% of the required treatment volume, which gives the proposed site a total required treatment volume of 3.767 ac-ft for the onsite basin.

The site is also required to provide 0.50 inches of dry pre-treatment over the site area for commercial development per SFWMD. Based on a total site area of 17.45 acres and estimated wet pond area of 3.52 acres, 0.57 acres of dry pre-treatment will be required for the site.

Table 6:

Post-Development:	Required TV	150% of TV (OFW)
Onsite	2.511 ac-ft	3.767 ac-ft

F. DISCHARGE RATES

The post-development discharge rates for the proposed site will not exceed more than 2.0 inches of depth over the area served for any 24-hour period from the 10-year frequency, 72-hour duration rainfall. For the proposed site, this comes out to 7.65 acft in any 24-hour period. This limited discharge criteria are based on the drainage connection

requirements set forth by North St. Lucie River Water Canal District and is what the closest permitted existing site was approved at.

G. NSLWCD REQUIREMENTS

The project site discharges to a NSLRWCD canal that ultimately contributes drainage to the North Fork of the St. Lucie River. The North Fork is a verified impaired waterbody for nutrients. As such, the system will be required to demonstrate that the average annual nutrient load in the post-development will not exceed that of the pre-development condition.

The proposed system will be designed to meet the treatment and attenuation design criteria for the South Florida Water Management District (SFWMD), the North St. Lucie River Water Control District (NSLRWCD), and the City of Fort Pierce. This includes an additional 50% water quality and net improvement provisions for sites with discharge to the South Fork of the St Lucie River Basin (verified impaired).

CONCLUSION

Post-development offsite discharge rates are limited by the NSLRWCD criteria of 2.0 inches of depth over the area served for any 24-hour period from the 10 year-72-hour storm event for allowable discharge in to the bordering NSLRWCD Canal 37. A limited discharge rate of 7.65 ac-ft is required for a 17.38-acre site.

The proposed development is to provide sufficient water quality treatment in accordance with all requirements set forth by City of Fort Pierce, North St. Lucie River Water Control District, and South Florida Water Management District. The total required treatment volume is to be an estimated 3.767 ac-ft for the overall onsite basin, with 0.57 acres of the required pre-treatment being dry pre-treatment.

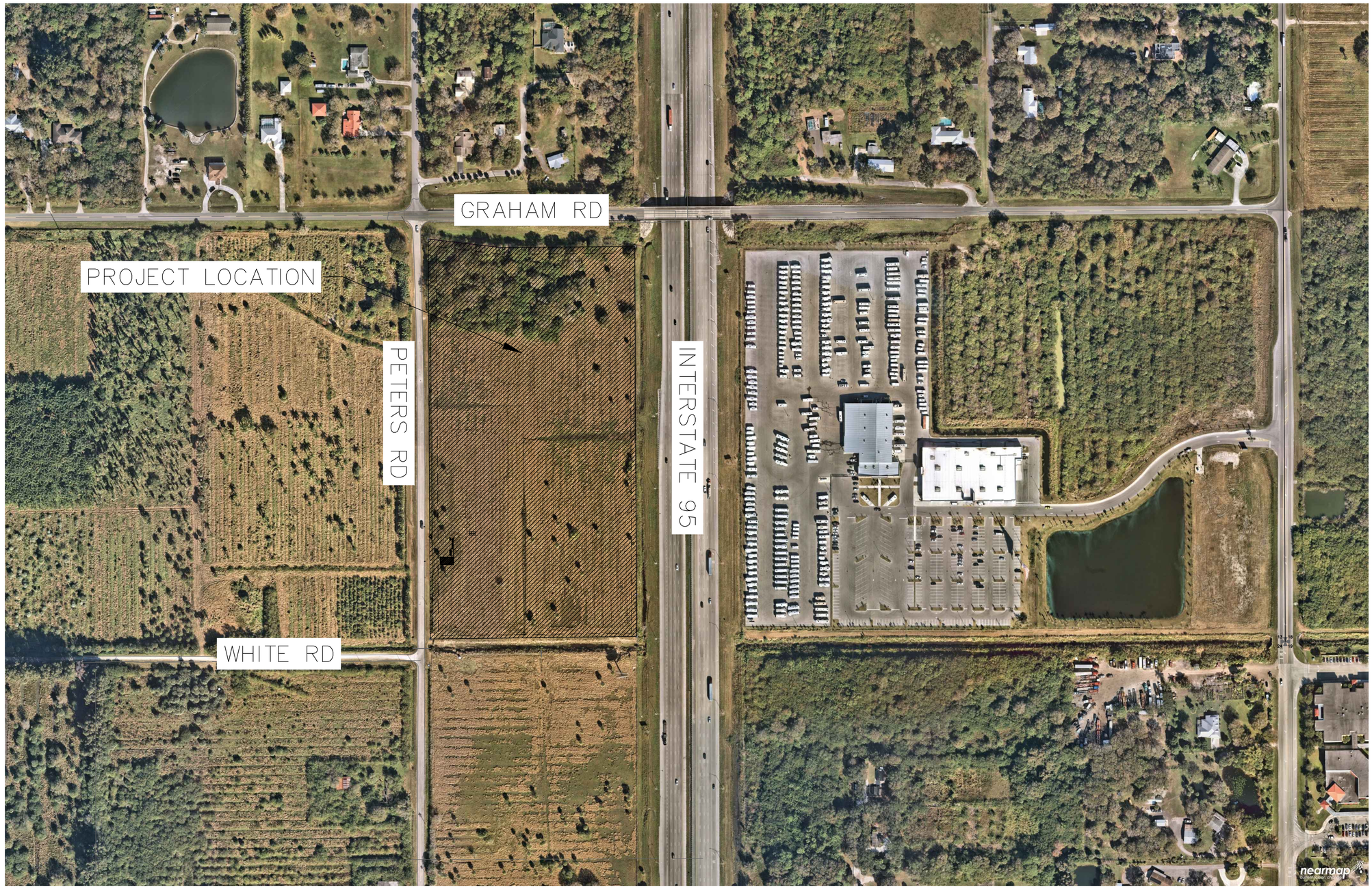
The proposed development is designed to maintain and improve the currently existing pre-development drainage pattern and will have an ultimate outfall to NSLRWCD Canal 37. All drainage design is to be in accordance with the requirements set forth by NSLRWCD, SFWMD, and the City of Fort Pierce.

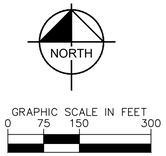
APPENDICES

APPENDIX A

VICINITY MAPS

Location Map





OWNER
R V DEVELOPMENT, LLC
547 WASH ROBERTS LANE
MC MINNVILLE, TN, 37110

DEVELOPER
BEN LOKHORST
MACRITCHIE STORAGE VENTURES, LLC
715 5TH AVENUE, SW, SUITE 1700
CALGARY AB T2P 2X6
PHONE: 403-973-4882

FLOOD ZONE
PROPERTY LIES WITHIN FLOOD ZONE "X", ACCORDING TO THE F.I.R.M. MAP NO. 12111C0167J, DATE 02/16/2012.

LEGAL DESCRIPTION
THAT PORTION OF THE WEST 1/2 OF THE SW 1/4 OF THE SE 1/4 , LYING WEST OF THE WESTERLY RIGHT OF WAY LINE OF I-95, OF SECTION 13, TOWNSHIP 35 SOUTH, RANGE 39 EAST, LYING AND BEING IN ST. LUCIE COUNTY, FLORIDA, LESS AND EXCEPT ROAD RIGHTS OF WAY FOR I-95; GRAHAM ROAD; COPENHAVER ROAD AND LESS CANAL RIGHTS OF WAY FOR NSLRDD CANAL NO. 37 ON SOUTH LINE

CONTAINING 17.45 ACRES ACRES, MORE OR LESS.

No.	REVISIONS	DATE	BY

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY BLAINE BERGSTRESSER, P.E. ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

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445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000696

LICENSED PROFESSIONAL ENGINEER
BLAINE ROBERT BERGSTRESSER
LICENSE No. 84598
STATE OF FLORIDA
DATE: 02/16/2021

KHA PROJECT 147814000
DATE 02/25/2021
SCALE AS SHOWN
DESIGNED BY BRB
DRAWN BY TJE
CHECKED BY BRB

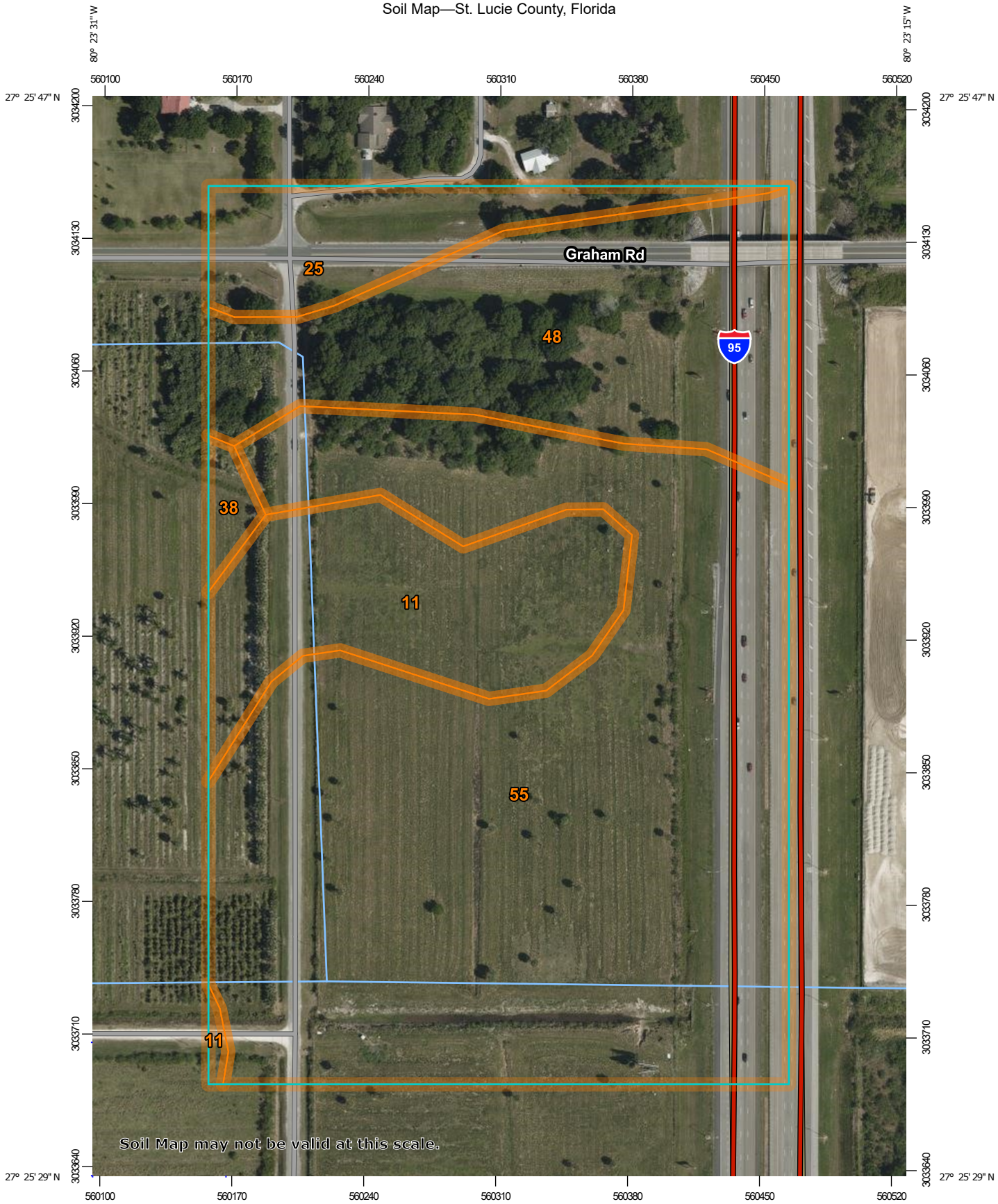
LOCATION MAP

FORT PIERCE RV
PREPARED FOR
MACRITCHIE, INC
FORT PIERCE FLORIDA

SHEET NUMBER
EX-01

Plotted By:Enright, Tyler Sheet Set:Kha Layout:Layout1 April 06, 2021 11:08:22am K:\VRB_LDEV\147814000 - Ft Pierce RV Storage\CAD\Exhibits\LOCATION MAP EXHIBIT.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

NRCS Soil Resource Report for Fort Pierce, Florida



Map Scale: 1:2,780 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 40 80 160 240

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: St. Lucie County, Florida
Survey Area Data: Version 14, Jun 9, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 6, 2019—Mar 23, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

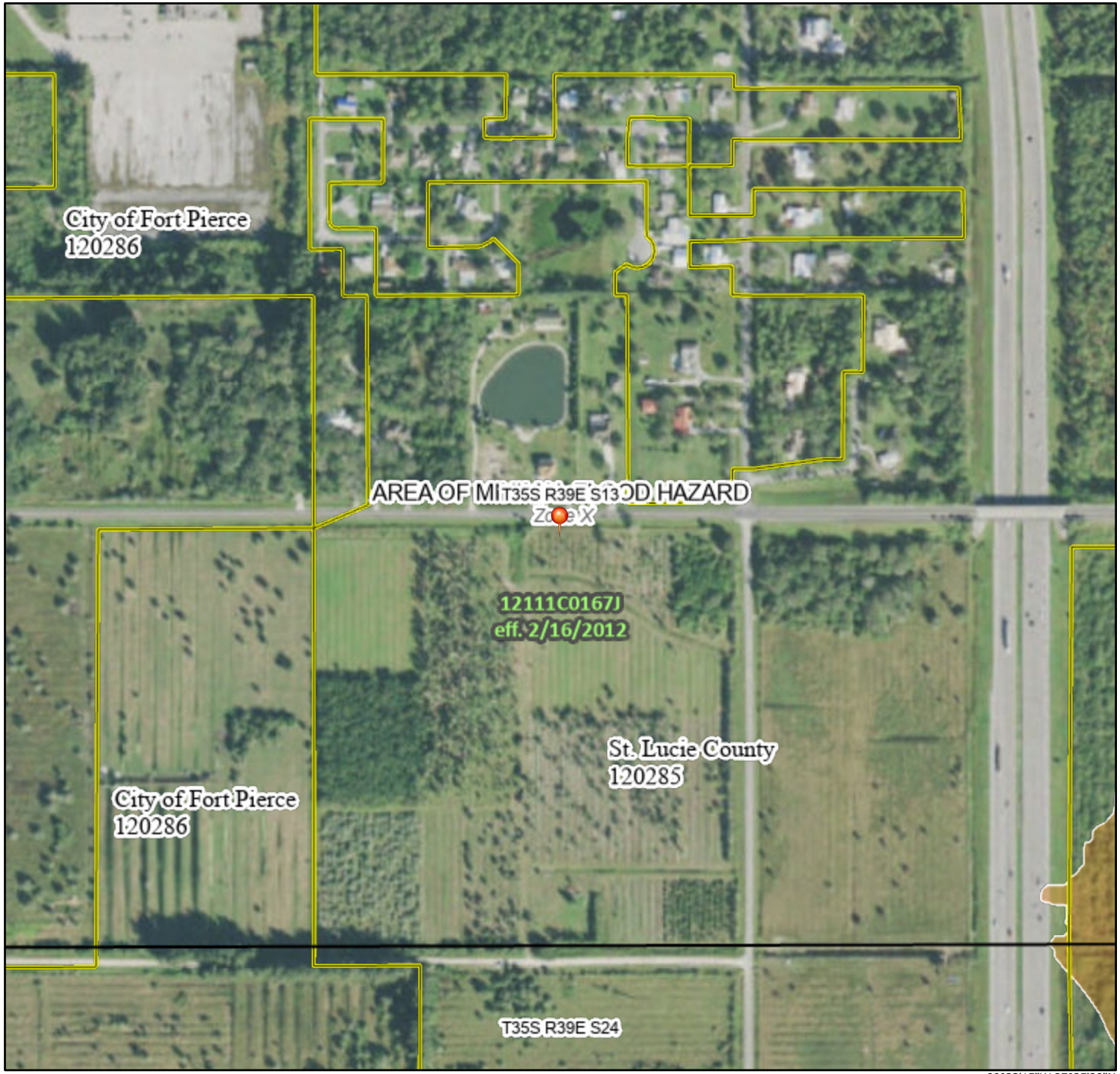
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
11	Chobee loamy sand, frequently ponded, 0 to 1 percent slopes	4.7	13.0%
25	Nettles and Oldsmar sands	2.6	7.1%
38	Riviera fine sand, 0 to 2 percent slopes	0.4	1.0%
48	Wabasso sand, 0 to 2 percent slopes	7.3	20.2%
55	Winder loamy sand	21.3	58.7%
Totals for Area of Interest		**36.2**	**100.0%**

FEMA Floodplain Maps

National Flood Hazard Layer FIRMette

FEMA

80°23'52"W 27°26'N



80°23'15"W 27°25'28"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/4/2021 at 8:35 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations (BFEs) shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Transverse Mercator State Plane Florida East FIPS 0901. The **horizontal datum** was NAD83 HARN, GRS1980 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713-3242** or visit its website at http://www.ngs.noaa.gov/.

Base map information shown on this FIRM was provided in digital format by St. Lucie County and the Florida Geographic Data Library.

This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

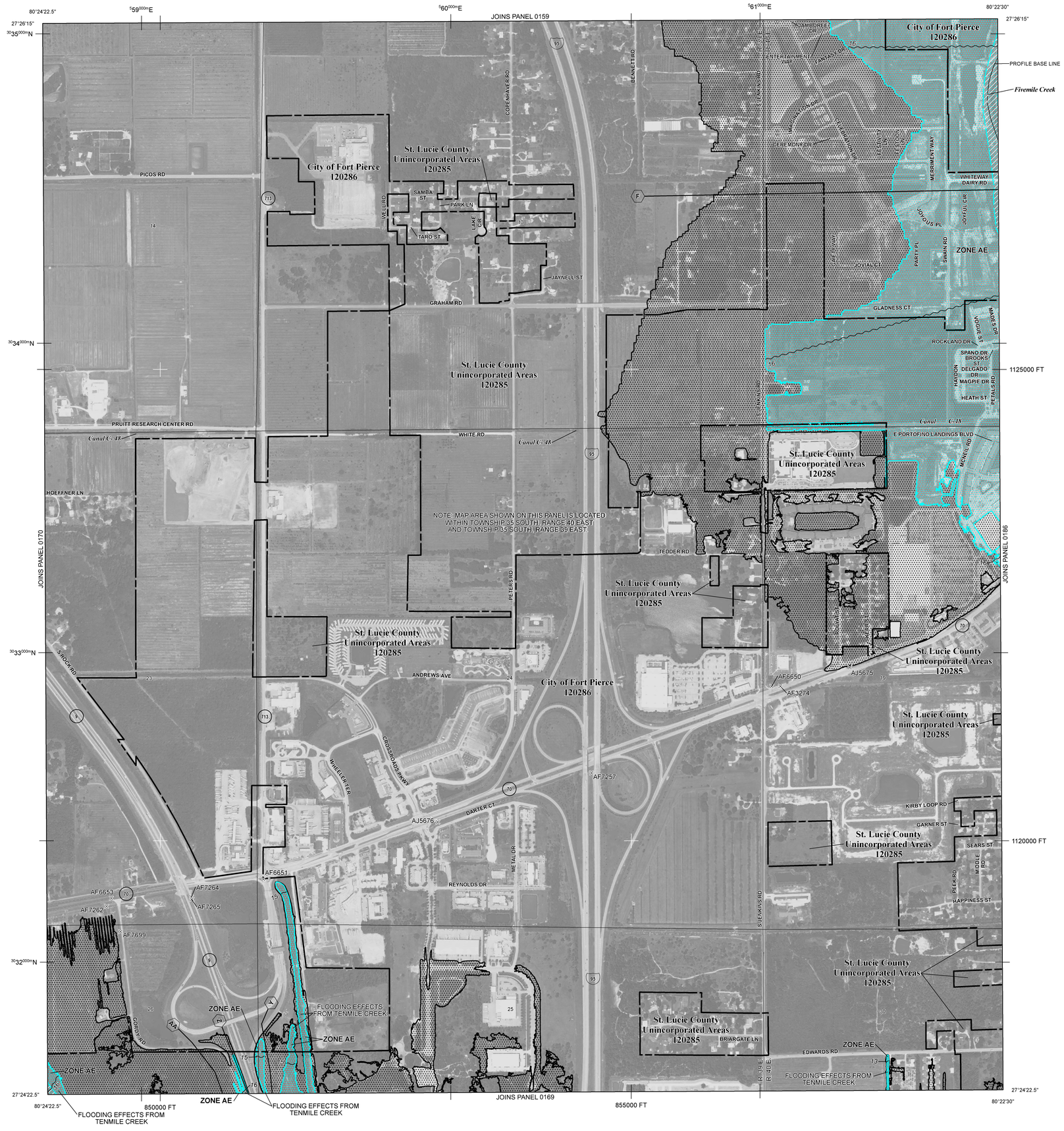
Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the **FEMA Map Information eXchange (FMIX)** at 1-877-336-2627 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FMIX may also be reached at its website at http://msc.fema.gov/.

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1-877-FEMA MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/nfip/.

The **"profile base lines"** depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the "profile base line", in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A No Base Flood Elevations determined.

ZONE AE Base Flood Elevations determined.

ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

ZONE AR Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

ZONE A99 Areas to be protected from 1% annual chance flood event by a Federal flood protection system under construction; no Base Flood Elevations determined.

ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities
- 513 — Base Flood Elevation line and value; elevation in feet*
- (EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988

- A — A — Cross section line
- 23 — 23 — Transect line
- 97°07'30", 32°22'30" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
- 4275000mE — 1000-meter Universal Transverse Mercator grid ticks, zone 17
- 6000000 FT — 5000-foot grid values: Florida State Plane coordinate system, East Zone (FIPSZONE = 0901), Transverse Mercator projection
- DX5510 — Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 — River Mile

MAP REPOSITORIES
Refer to Map Repositories List on Map Index

EFFECTIVE DATE OF COUNTYWIDE
FLOOD INSURANCE RATE MAP
August 19, 1991

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
November 4, 1992

June 30, 1999

February 16, 2012 - to update corporate limits, to add Base Flood Elevations, to add Special Flood Hazard Areas, to change Special Flood Hazard Areas, to add roads and road names, to update the effects of wave action, and to incorporate previously issued Letters of Map Revision.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'

250 0 250 500 750 1,000 FEET
150 0 150 300 METERS

NFIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0167J

FIRM

FLOOD INSURANCE RATE MAP

ST. LUCIE COUNTY, FLORIDA AND INCORPORATED AREAS

PANEL 167 OF 420

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
FORT PIERCE, CITY OF	120286	0167	J
ST. LUCIE COUNTY	120285	0167	J

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
12111C0167J

MAP REVISED
FEBRUARY 16, 2012

Federal Emergency Management Agency

SFWMD Rainfall Maps

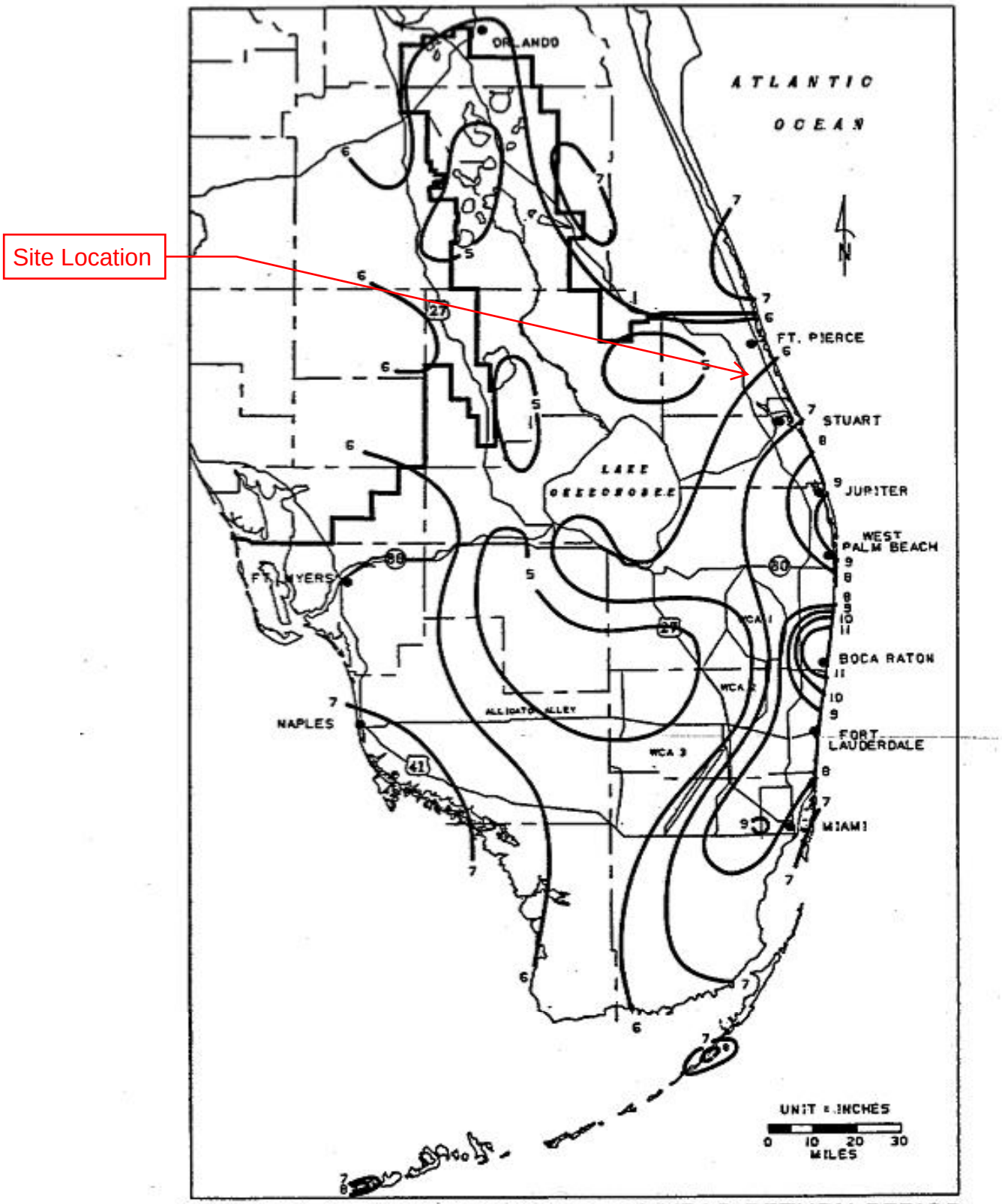


FIGURE C-4. 1-DAY RAINFALL: 10-YEAR RETURN PERIOD

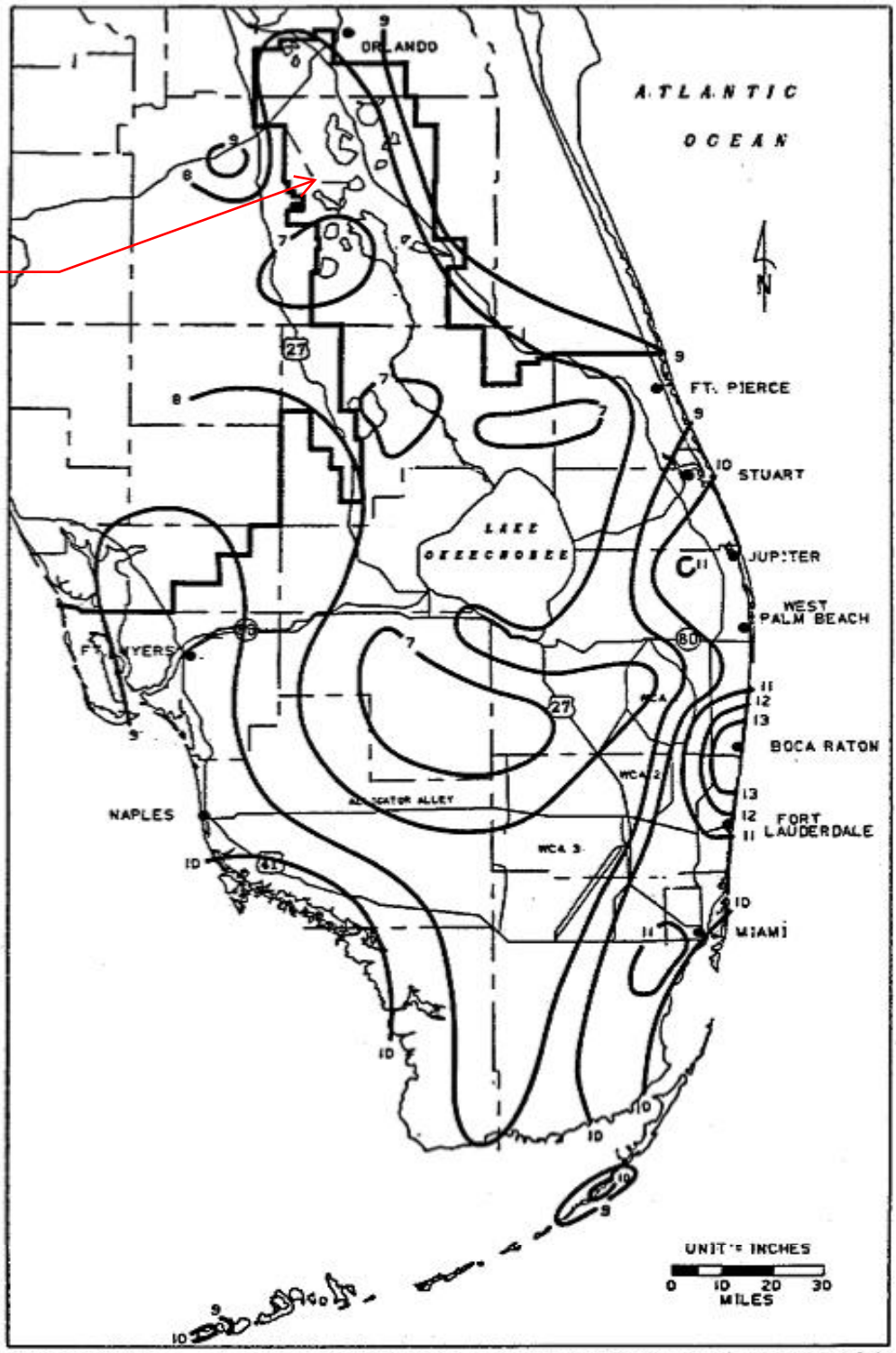


FIGURE C-7. 3-DAY RAINFALL: 10-YEAR RETURN PERIOD

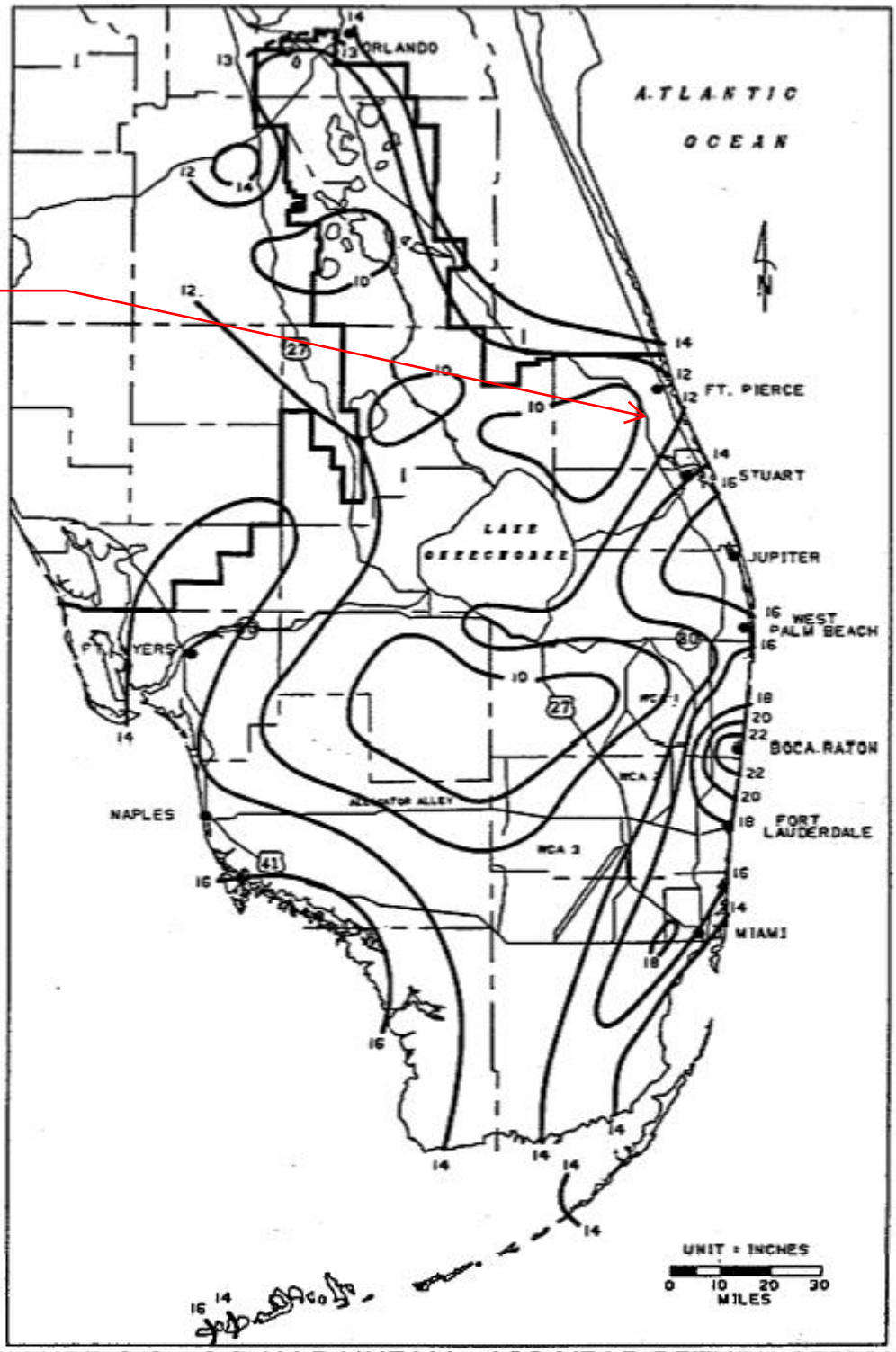


FIGURE C-9. 3-DAY RAINFALL: 100-YEAR RETURN PERIOD

APPENDIX B

Pre-Development Calculations

Pre-Development

Curve Number Calculations

Pre-Development Curve Number
TR-55 Methodology - Pre-Conditions

Pre-Development
Curve Number

Project Name: Fort Pierce RV Storage
Calculated By: TJE
Calculated Date: 4/6/2021

Basin Name: Undeveloped Onsite

Site	Description	Area (SF)	Area (AC)	% of Total	Surface	CN	CN x
	Impervious						
Undeveloped Onsite	Pavement	0	0.00	0.00%		98	0.00
	Building	0	0.00	0.00%		98	0.00
		0	0.00	0.00%		98	0.00
	Water Surface (Top of Bank)		0.00	0.00%		98	0.00
	Impervious Total =	*0*	*0.00*				
	Pervious						
	Group (D)	756,855	17.38	100.00%	Open, Good	80	80.00
	Total Basin Area =	***756,855***	***17.38***	***100.00%***	***CN =***	***80.00***	

Pre-Development

Time of Concentration Calculations

Pre-Development

Time of Concentration

Project Name: **Fort Pierce RV Storage**
Computed by: TJE
Date: 4/6/2021

Basin: **Onsite**

	Segment ID		
Sheet Flow	1	-	
1. Surface Description (Table 3-1)	Unpaved	-	TR-55
2. Manning's roughness coeff., n (Table 3-1)	0.4	-	TR-55
3. Flow Length, L (total <= 300 ft) (feet)	300	-	
4. 2-year 24-hour rainfall, P_2 (inches)	4.80	-	FDOT Fig. 5-13
5. Land slope, s (ft/ft)	0.0067	-	**Sub-total**
6. Tt =(0.007 * (nL)^0.8)/((P_2^0.5)*(s^0.4)) (hr)	1.09	-	1.09

	Segment ID		
Shallow Concentrated Flow	2	-	
7. Surface description (paved or unpaved)	unpaved	-	
8. Flow length, L (feet)	200	-	
9. Watercourse slope, s (ft/ft)	0.010	-	
10. Average velocity, V (TR-55 figure 3-1) (ft/s)	1.61	-	**Sub-total**
11. Tt = (L/(3600*V) (hr)	0.03	-	0.03

	Segment ID		
Channel Flow	3	-	
12. Cross section flow area, a (ft^2)	15.9	-	
13. Wetted perimeter, Pw (ft)	16.4	-	
14. Hydraulic radius, r = a/Pw (ft)	0.97	-	
15. Channel slope, s (ft/ft)	0.001	-	
16. Manning/s roughness coeff., n	0.013	-	
17. V = (1.49*($r^{2/3}$)*($s^{1/2}$))/n (ft/s)	2.94	-	
18. Flow length, L (ft)	480	-	**Sub-total**
19. Tt = (L/3600*V) (hr)	0.045	-	0.05

Total	**Total**	
20. Total Tc (hr)	1.17	hrs
21. Total Tc (min)	70.18	mins

Notes:

1. Methodology used in calculating Time of Concentration is as specified in US Department of Agriculture Technical Release 55, June 1986

Pre-Development

Runoff Calculations

Pre-Development

Runoff Volume Calculator

Based on the Soil Conservation Service Technical Release 55
***Urban Hydrology for Small Watersheds*, June 1986**

Project Name: Fort Pierce RV Storage
Calculated By: TJE
Calculated 4/6/2021

10 Year 24 Hour - Minimum Parking Lot Design Storm Event
10 Year 72 Hour - Allowable Discharge Design Storm Event
25 Year 72 Hour - Perimeter Berm Design Storm Event
100 Year 72 Hour - Finished Floor Elevation Design Storm Event

[Eq. 2-4] $S = \frac{1000}{CN} - 10$

[Eq. 2-3] $Q = \frac{(P - 0.2S)^2}{(P + 0.8S)}$

SFWMD

10 Year 24 Hour

INPUT:					
	P = Rainfall Depth:	6.00	inches		
	CN = Curve Number:	80.00			
	A = Basin Area:	17.38	acres		
	S = Potential Maximum Retention After Runoff Begins:	2.50			
	Q = Runoff:	3.78	inches =	0.32	feet
OUTPUT:					
	V = Runoff Volume:	***5.47***	***acre-feet***		

10 Year 72 Hour

INPUT:					
	P = Rainfall Depth:	8.50	inches		
	CN = Curve Number:	80.00			
	A = Basin Area:	17.38	acres		
	S = Potential Maximum Retention After Runoff Begins:	2.50			
	Q = Runoff:	6.10	inches =	0.51	feet
OUTPUT:					
	V = Runoff Volume:	***8.83***	***acre-feet***		

25 Year 72 Hour

INPUT:					
	P = Rainfall Depth:	9.50	inches		
	CN = Curve Number:	80.00			
	A = Basin Area:	17.38	acres		
	S = Potential Maximum Retention After Runoff Begins:	2.50			
	Q = Runoff:	7.04	inches =	0.59	feet
OUTPUT:					
	V = Runoff Volume:	***10.20***	***acre-feet***		

100 Year 72 Hour

INPUT:					
	P = Rainfall Depth:	12.23	inches		
	CN = Curve Number:	80.00			
	A = Basin Area:	17.38	acres		
	S = Potential Maximum Retention After Runoff Begins:	2.50			
	Q = Runoff:	9.67	inches =	0.81	feet
OUTPUT:					
	V = Runoff Volume:	***14.00***	***acre-feet***		

Pre-Development

Stage Storage Calculations

Pre-Development

Site Stage Storage Volume

Project Name: Fort Pierce Storage
Calculated By: TJE
Calculated Date 4/6/2021

ALL ELEVATIONS LISTED IN NAVD '88

ONSITE BASIN

Sub-Area	Area at Control Elevation		Total Storage
Low El.	10.00		
High El.	20.00		
Area (ft^2)	756855		
Area (acres)	17.37500		
Stage (NAVD)	Area (sf)	Volume (cf)	(ac-ft)
10.00	0.00	0.00	0.0000
10.20	219.97	79.85	0.0018
10.40	291.09	123.84	0.0028
10.60	372.42	182.06	0.0042
10.80	463.96	256.54	0.0059
11.00	565.71	349.34	0.0080
11.20	678.53	462.48	0.0106
11.40	815.95	598.19	0.0137
11.60	997.01	761.37	0.0175
11.80	1,252.66	960.78	0.0221
12.00	1,589.25	1,211.31	0.0278
12.20	1,969.70	1,529.16	0.0351
12.40	2,385.57	1,923.10	0.0441
12.60	2,864.45	2,400.21	0.0551
12.80	3,667.33	2,973.10	0.0683
13.00	5,099.80	3,706.57	0.0851
13.20	9,771.48	4,726.53	0.1085
13.40	17,249.76	6,680.83	0.1534
13.60	29,098.31	10,130.78	0.2326
13.80	62,373.21	15,950.44	0.3662
14.00	117,929.22	28,425.08	0.6526
14.20	175,501.88	52,010.93	1.1940
14.40	268,553.22	87,111.30	1.9998
14.60	384,963.29	140,821.94	3.2328
14.80	454,455.20	217,814.60	5.0003
15.00	501,314.98	308,705.64	7.0869
15.20	528,555.36	408,968.64	9.3886
15.40	553,468.35	514,679.71	11.8154
15.60	575,885.18	625,373.38	14.3566
15.80	600,627.97	740,550.42	17.0007
16.00	623,872.30	860,676.01	19.7584
16.20	643,721.47	985,450.47	22.6228
16.40	659,480.63	1,114,194.76	25.5784
16.60	670,775.89	1,246,090.89	28.6063
16.80	682,565.04	1,380,246.07	31.6861
17.00	694,590.94	1,516,759.08	34.8200
17.20	705,368.83	1,655,677.27	38.0091
17.40	711,795.93	1,796,751.03	41.2477
17.60	712,599.38	1,939,110.22	44.5158
17.80	712,601.93	2,081,630.09	47.7877
18.00	712,601.94	2,224,150.48	51.0595
18.20	712,601.94	2,366,670.87	54.3313
18.40	712,601.93	2,509,191.25	57.6031
18.60	712,601.94	2,651,711.64	60.8749
18.80	712,601.94	2,794,232.03	64.1467
19.00	712,601.93	2,936,752.42	67.4186
19.20	712,601.94	3,079,272.80	70.6904
19.40	712,601.94	3,221,793.19	73.9622
19.60	712,601.93	3,364,313.58	77.2340
19.80	712,601.94	3,506,833.96	80.5058
20.00	712,601.94	3,649,354.35	83.7776

TOTAL ONSITE

Sub-Area	Total Storage
Low El.	
High El.	
Area (ft^2)	
Area (acres)	
Stage (NAVD)	(ac-ft)
10.00	0.0000
10.20	0.0018
10.40	0.0028
10.60	0.0042
10.80	0.0059
11.00	0.0080
11.20	0.0106
11.40	0.0137
11.60	0.0175
11.80	0.0221
12.00	0.0278
12.20	0.0351
12.40	0.0441
12.60	0.0551
12.80	0.0683
13.00	0.0851
13.20	0.1085
13.40	0.1534
13.60	0.2326
13.80	0.3662
14.00	0.6526
14.20	1.1940
14.40	1.9998
14.60	3.2328
14.80	5.0003
15.00	7.0869
15.20	9.3886
15.40	11.8154
15.60	14.3566
15.80	17.0007
16.00	19.7584
16.20	22.6228
16.40	25.5784
16.60	28.6063
16.80	31.6861
17.00	34.8200
17.20	38.0091
17.40	41.2477
17.60	44.5158
17.80	47.7877
18.00	51.0595
18.20	54.3313
18.40	57.6031
18.60	60.8749
18.80	64.1467
19.00	67.4186
19.20	70.6904
19.40	73.9622
19.60	77.2340
19.80	80.5058
20.00	83.7776

APPENDIX C

Post-Development Calculations

Estimated Post-Development

Curve Number Calculations

Post-Development Curve Number
TR-55 Methodology - Post Conditions

Post-Development

Estimated Curve Number

Project Name: Fort Pierce RV Storage
Calculated By: TJE
Calculated Date: 4/6/2021

Basin Name: Onsite

Site	Description	Area (SF)	Area (AC)	% of Total	Surface	CN	CN x Area(%)
	Impervious						
Developed Onsite	Pavement	411,198	*9.440*	54.33%		98	53.24
	Building	880	*0.020*	0.12%		98	0.11
			0.000				
	Water Surface (Top of Bank)	122,404	*2.810*	16.17%		98	15.85
	Impervious Total =	*534,482*	*12.270*				
	Pervious						
	Group (D)	222,374	5.11	29.38%	Open, Good	80	23.51

Total Area =	***756,855***	***17.38***	***100.00%***	***CN =***	***92.71***

	Area (SF)	Area (AC)	% of Total			
Total Pavement =	***411,198***	9.44	***54.33%***		98	53.24
Total Building =	***880***	0.02	***0.12%***		98	0.11
Total Water Surface =	***122,404***	2.81	***16.17%***		98	15.85
Total Pervious =	***222,374***	5.105	***29.38%***		80	23.51

Total Project Area =	***756,855***	***17.38***	***100.00%***	***CN =***	***92.71***

Estimated Post-Development

Runoff Calculations

Post-Development
Runoff Volume Calculator

Based on the Soil Conservation Service Technical Release 55
***Urban Hydrology for Small Watersheds*, June 1986**

Project Name: Fort Pierce RV Storage
Calculated By: TJE
Calculated 4/6/2021

10 Year 24 Hour - Minimum Parking Lot Design Storm Event
10 Year 72 Hour - Minimum Pond Berm Design Storm Event
- Off-site Discharge Rates Design Storm Event
100 Year 72 Hour - Finished Floor Elevation Design Storm Event

[Eq. 2-4] $S = \frac{1000}{CN} - 10$

[Eq. 2-3] $Q = \frac{(P - 0.2S)^2}{(P + 0.8S)}$

SFWMD

10 Year 24 Hour

INPUT:					
	P = Rainfall Depth:	6.00	inches		
	CN = Curve Number:	95.00			
	A = Basin Area:	19.00	acres		
	S = Potential Maximum Retention After Runoff Begins:	0.53			
	Q = Runoff:	5.41	inches =	0.45	feet
OUTPUT:					
	V = Runoff Volume:	***8.57***	***acre-feet***		

10 Year 72 Hour

INPUT:					
	P = Rainfall Depth:	8.50	inches		
	CN = Curve Number:	95.00			
	A = Basin Area:	19.00	acres		
	S = Potential Maximum Retention After Runoff Begins:	0.53			
	Q = Runoff:	7.90	inches =	0.66	feet
OUTPUT:					
	V = Runoff Volume:	***12.51***	***acre-feet***		

25 Year 72 Hour

INPUT:					
	P = Rainfall Depth:	9.50	inches		
	CN = Curve Number:	95.00			
	A = Basin Area:	19.00	acres		
	S = Potential Maximum Retention After Runoff Begins:	0.53			
	Q = Runoff:	8.90	inches =	0.74	feet
OUTPUT:					
	V = Runoff Volume:	***14.09***	***acre-feet***		

100 Year 72 Hour

INPUT:					
	P = Rainfall Depth:	12.23	inches		
	CN = Curve Number:	95.00			
	A = Basin Area:	19.00	acres		
	S = Potential Maximum Retention After Runoff Begins:	0.53			
	Q = Runoff:	11.62	inches =	0.97	feet
OUTPUT:					
	V = Runoff Volume:	***18.40***	***acre-feet***		

Estimated Post-Development

Water Quality and Treatment Volume

Post-Development

Water Quality and Treatment Volume

Project Name: Fort Pierce RV Storage
Calculated By: TJE
Calculated Date: 4/6/2021

TREATMENT

	Basin Area	Required Pre-Treatment (1.0 in over Site Area)	Provided Treatment	Type of Treatment Provided
	(ac)	(ac-ft)	(ac-ft)	
SITE	17.375	3.826	4.000	Wet Detention Pond

WATER QUALITY

Site Area (ac)	17.380
Building Area* (ac)	0.020
Wet Detention Pond Area (ac)	2.810
Impervious Area (ac)	13.145
Pervious Area (ac)	4.300

Area Required for Dry Pretreatment (Total Site - Lake Area)	14.570
Required Dry Pretreatment (0.5" X Treatment Area)	0.607

Site Area for Water Quality = Site Area - Building Area - Pond	14.550
Site Area for Water Quality - Pervious =	10.250
Percentage Impervious for Water Quality =	70.4%

1" x Site Area (ac-ft)	1.448
2.5" x Percentage Impervious for Water Quality (ac-ft)	2.551
Treatment Required for Site (ac-ft)	2.551

Net Required Treatment (ac-ft) (150% for OFW)	3.826
Treatment Provided (ac-ft)	4.000

APPENDIX D

Supporting Documentation

Conceptual SFWMD ERP

Permit No. #56-100483-P

Drainage Calculations

for

Camping World Mass Grading
Fort Pierce, FL

Prepared By:

Engineering Design & Construction, Inc.
10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
Board of Professional Engineers Certificate of Authorization Number 9935

June 2018

R.J. Kennedy, P.E. #56218 Date
10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
(772) 462-2455

Drainage Calculation Summary

Project Description

The project consists of mass grading and construction of a stormwater water management system to serve a proposed outdoor recreation development (commercial/retail). The final development will see the construction of a 47,456 SF Gander Outdoors retail building, a 17,750 SF Camping World retail & sales building, a 15,035 SF service area, utilities, and the associated parking area. The project will mass grade a 28.97 acre portion of the larger 45.00 acre property. Of the 28.97 acres to be mass graded during this phase 26.53 acres will consist of the outdoor recreation facility and 2.44 acres will consist of a future commercial outparcel ("Outparcel 2"). The remaining 16.03 acres of the property will remain in its existing condition (agricultural). The stormwater management system will provide treatment and attenuation for 28.97 acres of development. Dry pre-treatment will be provided under this phase for the 26.53 acres of the outdoor recreation facility. The future outparcel will be required to provide for its own dry pre-treatment during its respective permitting & construction. There are 0.46 acres of man-made agricultural ditches (other surface waters) to be impacted by the project. The site will be served by the Fort Pierce Utilities Authority (FPUA) for water and wastewater.

The project is located north of Okeechobee Road (SR-70), east of Interstate 95, on Jenkins Road in the City of Fort Pierce. The parcel ID numbers are 2313-431-0000-000-1, 2313-441-0000-000-2, 2313-444-0040-000-3, 2313-443-0000-000-7, and 2313-434-0001-000-8. The project is located in Section 13, Township 35 South, and Range 39 East.

Please see the enclosed plans and appendices for more detailed site information.

Existing Drainage Conditions

The existing site consists of 45.00 acres of agricultural land (citrus groves). Drainage from the groves is conveyed overland by beds and furrows to a series of primary ditches. The ditches convey drainage south to an existing 36" flashboard riser structure that outfalls into the North St. Lucie River Water Control District (NSLRWCD) Canal 37. The existing outfall pipe is cantilevered above the normal control elevation (dry season 7.78 NAVD, wet season 4.53 NAVD) of Canal 37. The 36" flashboard riser structure does not have any weir plates or boards in place. During a June 2018 site visit an old tire was observed immediately in front of the structure. It did not appear to be acting as a weir or causing appreciable staging. As such, any water collected into the ditch is currently discharged into Canal 37 at the structure invert (8.65 NAVD). This free discharge condition appears to have persisted for a long time based on stain lines observed by EDC during the recent site visit.

There is not currently any comingle of runoff outside of the property boundaries. The eastern and northern boundaries drain into roadside swales. The western boundary drains into the Interstate 95 stormwater system. The southern boundary is divided by elevated banks along the NSLRWCD Canal 37 right-of-way.

Soils

Please see the enclose soils map. The majority of the site consists of Wabasso sand, 0 to 2 percent slopes and Winder loamy sand. A minor coverage of Hilolo loamy sand exists at the center of the site.

Control Elevation

As previously noted in the existing drainage section of this report, the site is currently controlled by a freely discharging pipe at elevation 8.65 NAVD. Water and stain lines were observed at the invert of this pipe during a June 2018 site visit.

There is an existing culvert pipe within the swale along Jenkins Road that outfalls directly to NSLRWD Canal 37. The culvert is at invert 11.19 NAVD. During the June 2018 site visit the invert of the pipe was observed to be dry.

NSLRWCD Canal 37 was observed to have a water level near the invert of a 60” culvert beneath Jenkins Road (elevation 5.60 NAVD).

It is important to note that the above observations were made following above average wet season rainfall during the last half of May. Based on SFWMD records the month of May experienced 448% of its average monthly rainfall.

Please see the following exhibits below.



Exhibit 1. Existing Site Control Structure



Exhibit 2. Existing Culvert in Jenkins Road Swale

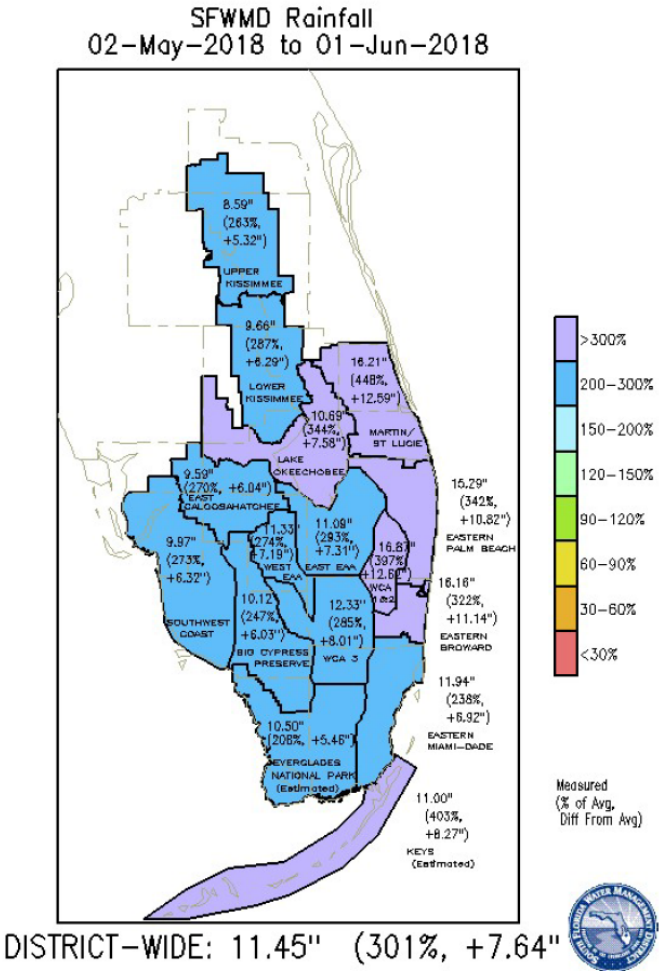


Exhibit 3. SFWMD Rainfall Map

Based on the above referenced information the following design control elevation has been determined to be 10.00 NAVD.

Tailwater

The proposed project will discharge to North St. Lucie River Water Control District (NSLRWCD) Canal No. 37. EDC obtained the drainage permit files for existing projects along this reach of canal. The adjacent Jenkins Road K-8 School (ERP 56-02469-P) and Portofino Landings (ERP 56-00577-S) developments have both historically been designed to the same tailwater condition. As such, the permitted tailwater condition has been adopted for the design of the Camping World stormwater management system. Please see the enclosed Appendix F for the associated supplemental information.

Proposed Drainage Conditions

The proposed project has been designed to maintain the existing drainage pattern and outfall location to NSLRWCD Canal 37. In the post-development condition there will be two (2) primary drainage basins within the overall 45.00 acre property.

Camping World and Outparcel

Drainage from the 26.53 acre outdoor recreation facility (“Camping World”) and 2.44 acre future outparcel (“Outparcel 2”) will be routed to a proposed wet detention lake system. The propose site plan for Camping World has been used for land use coverage. Land use coverage assumptions of 60% impervious, 20% building, and 20% pervious have been assumed for future Outparcel 2. Prior to discharge into the lake system Camping World will be routed through a dry detention area for pre-treatment. The future outparcel will be required to provide its own dry pre-treatment at its respective time for permitting and construction. The lake will outfall via a modified Type E control structure and the existing 36” pipe.

Existing Off-site (Remaining) 16.03 Acres

The remaining 16.03 acres of the property will remain in its existing condition until it is developed in the future. In order to not adversely affect existing drainage patterns, the proposed stormwater system has been designed to provide pass-through for the 16.03 acres. This also allows for future routing to the sites outfall location when this portion of the site is eventually developed. A directly connected pipe will be installed between the proposed wet detention lake and an existing ditch to remain. EDC has performed two (2) modeling scenarios in order to demonstrate that the stormwater system will function accordingly for pass through of the existing condition and future development of this area.

Please see the enclose construction plans and appendices for additional information.

Design Criteria

The system will be designed to satisfy the treatment and attenuation design criteria for the South Florida Water Management District (SFWMD), the North St. Lucie River Water Control District (NSLRWCD), and the City of Fort Pierce. This includes an additional 50% water quality and net improvement provisions for sites with discharge to the South Fork of the St Lucie River Basin (verified impaired).

Water Quality Treatment

The proposed system will provide water quality treatment in excess of the City of Fort Pierce and SFWMD ERP criteria. Water quality will be provided for the Camping World and Outparcel 2 in the proposed system. The remaining 16.03 acres is routed as pass through, thus treatment will not be provided at this time. Future development of the 16.03 acres will require construction of additional stormwater management facilities in order to provide the required water quality volume.

The site is required to meet additional water quality criteria for discharge to the St. Lucie Basin. The proposed system provides a net improvement for the average annual nutrient loads leaving the site. The design water quality retention volume is in excess of 150% of the SFWMD design volume (OFW criteria).

The stormwater management system will provide a mix of wet dry detention and wet to satisfy the above criteria. For these calculations please see the enclosed Appendices A and D.

Dry Pre-Treatment

Per the South Florida Water Management District, 0.50 inches of dry pre-treatment is required over the site for a commercial development. Please note, dry pre-treatment will be provided for only the Camping World portion of development. The future outparcel will be required to provide its own dry pre-treatment prior to discharging into the lake system. This will be provided at the time of permitting and development of the outparcel.

Camping World Development Area = 26.53 ac
Wet Detention Lake @ Control Elevation = 3.19 ac
0.5”/12 x (26.53 ac – 3.19 ac) = 0.97 acft of dry pre-treatment is required.

In order to provide the required dry pre-treatment the applicant proposes to construct two dry detention swales. The dry detention swales will capture runoff behind two modified Type E structures with horizontal weirs and provide pre-treatment prior to discharge into the wet detention lake. Minimum sized bleeders (3) will be installed on the structures.

Provided dry pre-treatment = 1.01 acft

Please note that the 1.01 acft of dry detention provided by swale system is credited towards the 6.31 acft of total water quality treatment required for the project. Thus, the remaining 5.30 acft is required to be provided in the wet detention lake. Please see Appendix A for the drainage calculations.

Net Improvement – Nutrient Loading Analysis

The project site discharges to a NSLRWCD canal that ultimately contributes drainage to the North Fork of the St. Lucie River. The North Fork is a verified impaired waterbody for nutrients. As such, the applicant is required to demonstrate that the average annual nutrient load in the post-development will not exceed that of the pre-development condition. The wet detention lake will provide sufficient residence time in the permanent pool volume to achieve the necessary level of nutrient removal. Please see Appendix D for the associated net improvement calculations.

Water Quantity

The proposed system is required to satisfy the attenuation and flood control criteria of the SFWMD and NSLRWCD. In order to account for both proposed and future condition EDC has provided two (2) ICPR modeling scenarios of the site.

Allowable Discharge

The allowable discharge for the receiving water (NSLRWCD Canal 37) is limited to 2” of depth over the area served for any 24 hour period from the 10-year, 72-hour duration rainfall.

Total site = 45.00 acres

Total Allowable Rate = 2”/12 x 45.00 acres = 7.65 acft in any 24-hour period

Scenario 1 – Developed Condition Model

The proposed stormwater system accounts for all future development of Camping World (26.53 acres), future Outparcel 2 (2.44 acres), and future off-site development of the remaining 16.03 acres. Camping World and Outparcel 2 are modeled as direct basin discharge to the proposed wet detention system. The future development of the 16.03 acres is uncertain at this time. As such, the ICPR model makes the following assumptions for this:

- The future development will construct its own stormwater management system and control structure.
- Discharge from the future system that will continue to pass through the Camping World lake.
- Discharge from the future system will be limited to the allowable NSLRWCD rate for its share of acreage.
- Allowable discharge from the future system has been routed as a rating curve.

Scenario 2 - Existing Off-Site Condition Model

As discussed in previous sections of this report the total contributing drainage area is 45.00 acres. The entire site drains south via ditches to an existing 36" flashboard riser structure into NSLRWCD Canal 37. The property is not currently controlled at the allowable NSLRWCD rate (free discharge, no weir, directly piped). Only 28.97 acres will be developed under this phase. The remaining 16.03 acres will remain in its existing condition. A direct piped connection to the Camping World system will be installed in order to maintain existing drainage patterns to the south (pass through). As such, the applicant has also provided a separate ICPR model that incorporates the storage and runoff from remaining 16.03 acres in its current condition. This analysis is provided to demonstrate that the proposed system will satisfy the applicable water quantity criteria during the time period that the 16.03 acres remains undeveloped. Drainage is sufficiently maintained on-site below existing elevations and adjacent properties will not be affected. Please see the below summary table and Appendix C for additional information.

Bleeder Orifice

The wet detention bleeder orifice shall be sized such that discharge is limited to 0.50" per day. The proposed bleeder orifice will be 4" in diameter. Please see Appendix A for bleeder sizing calculations.

Minimum Road and Parking

The minimum parking lot and driveway elevations are required to be set above the 10-year, 24-hour storm event stage. See the enclosed appendices and the summary table below for further details.

Minimum Perimeter Berm

The minimum perimeter berm elevation is required to be set above the 25-year, 72-hour storm event stage. See the enclosed appendices and the summary table below for further details.

Minimum Finished Floor

The minimum finished floor elevation is required to be set above the 100-year, 72-hour storm event with no discharge. See the enclosed appendices and the summary table below for further details.

Initial Storm Event Summary

CRITERIA	Rainfall Amount	Minimum/Required	Provided/Results
Minimum Road 10-year, 24-hour event	6.00 in	13.28 NAVD	16.00 NAVD
Allowable Discharge 10-year, 72-hour event	8.50 in	No more than 7.65 acft in any 24-hour period	7.27 acft max 24-hour discharge
Perimeter Berm 25-year, 72-hour event	9.50 in	15.45 NAVD	15.75 NAVD
Minimum FFE 100-year, 72-hour event	12.23 in	16.35 NAVD	18.50 NAVD

Recovery Storm Event Summary

Per SFWMD criteria, the system is required to recover to the proposed bleeder invert within 12-days after the design storm event. Due to the allowable discharge rate of the NSLRWCD the proposed system does not recovery entirely to the wet detention bleeder invert. As such, the applicant has run a back-to-back analysis of the stormwater management system with the model start elevation at the 12-day stage of the initial routing analysis. The proposed system continues to provide reasonable assurance of the required water quantity criteria. Please see Appendix C for this ICPR analysis.

CRITERIA	Rainfall Amount	Minimum/Required	Provided/Results
Minimum Road 10-year, 24-hour event	6.00 in	13.98 NAVD	16.00 NAVD
Allowable Discharge 10-year, 72-hour event	8.50 in	No more than 7.65 acft in any 24-hour period	7.54 acft max 24-hour discharge
Perimeter Berm 25-year, 72-hour event	9.50 in	15.55 NAVD	15.75 NAVD
Minimum FFE 100-year, 72-hour event	12.23 in	16.68 NAVD	18.50 NAVD

Existing Off-Site Condition Storm Event Summary

CRITERIA	Rainfall Amount	Minimum/Required	Provided/Results
Minimum Road 10-year, 24-hour event	6.00 in	13.20 NAVD	16.00 NAVD
Allowable Discharge 10-year, 72-hour event	8.50 in	No more than 7.65 acft in any 24-hour period	6.49 acft max 24-hour discharge
Perimeter Berm 25-year, 72-hour event	9.50 in	14.71 NAVD	15.75 NAVD 14.87 NAVD*
Minimum FFE 100-year, 72-hour event	12.23 in	15.57 NAVD	18.50 NAVD

*The minimum perimeter berm elevation of the 16.03 acre portion to remain is 14.87 NAVD.

Jenkins Road Turn Lane

A new right-turn lane and driveway will be constructed at the eastern boundary of the subject site within the Jenkins Road right-of-way. There is no existing ERP or associated drainage permit for this portion of Jenkins Road. This portion of Jenkins Road is crowned at the centerline. The southbound lane currently drains to a roadside swale along the eastern boundary of the subject site. All drainage collected by the swale is conveyed south to an existing culvert pipe that outfalls directly into NSLRWCD Canal 37 (no treatment or attenuation). Existing drainage patterns will be maintained for construction of the proposed turn lane and driveway. The turn lane will be sloped to the west in order to drain into the existing swale. South flowing conveyance in the swale will be maintained by a proposed 24” culvert beneath the driveway. All construction activities within the right-of-way are safety related improvements for access. The turn lane is less than 0.25 miles in length. As such, this portion of the project qualifies for an exemption under 62-330.051(4)c F.A.C.

Datum

All elevations included on the project construction plans are in reference to the North American Vertical Datum 1929. The vertical datum conversion was confirmed using Corpscon 6 software and was found to be 1.475 feet in the project area. This is used to convert NGVD to NAVD, in other words NGVD elevation minus 1.475 feet = NAVD elevation.

SFWMD Water Use Permitting

The proposed project will require dewatering for the construction of the lake and underground piping. As such, an individual permit for dewatering is being submitted concurrently with this application.

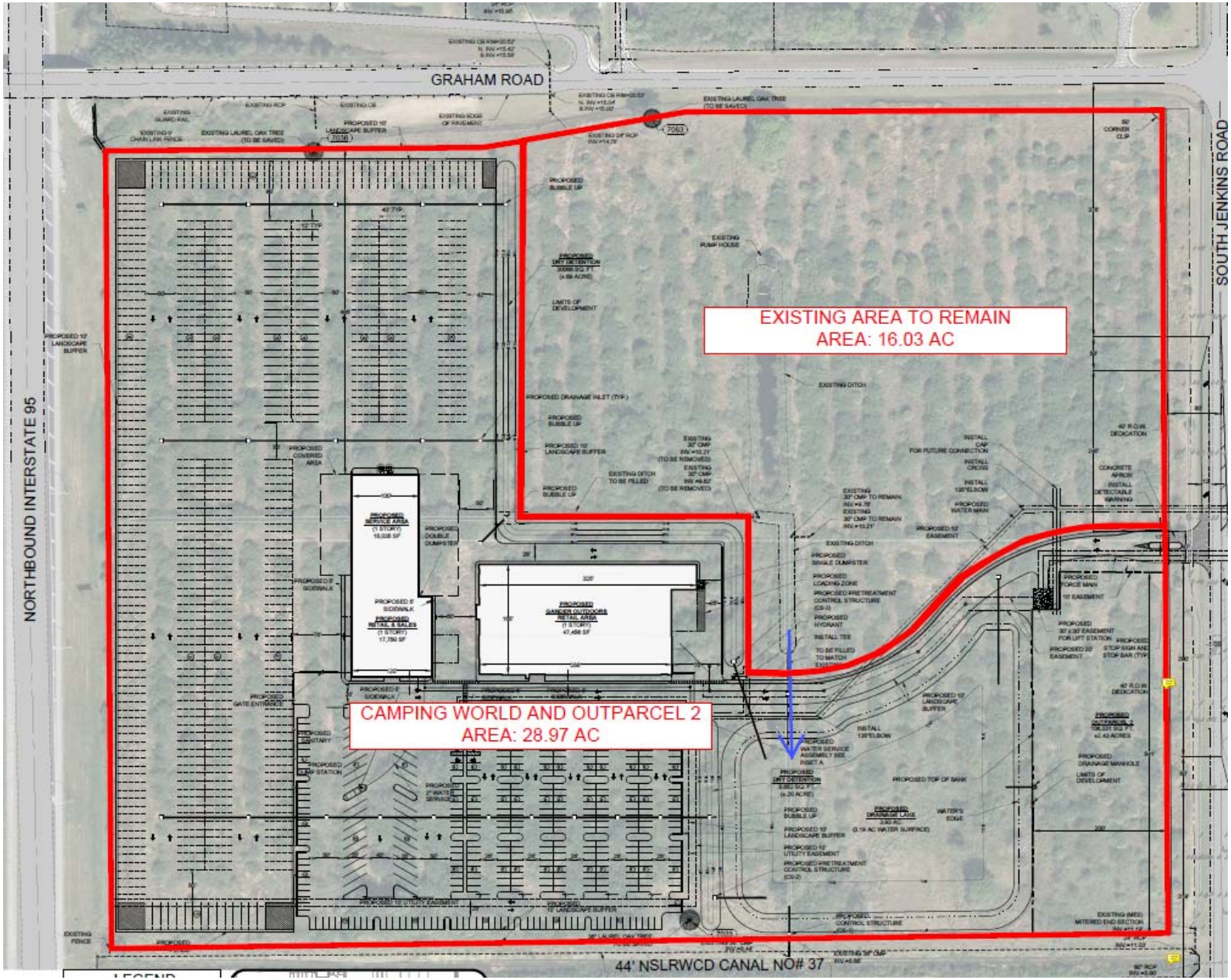
The proposed project is for mass grading only. Irrigation will not be constructed at this time. Upon permitting of the detailed construction plans a water use permit application for an irrigation well will be submitted.

Appendix A - Drainage Calculations

ENGINEERING DESIGN & CONSTRUCTION, INC
CIVIL ENGINEERS & SURVEYORS SPECIALIZING IN LAND DEVELOPMENT

10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
772-462-2455

Basin Map Exhibit



ENGINEERING DESIGN & CONSTRUCTION, INC
CIVIL ENGINEERS & SURVEYORS SPECIALIZING IN LAND DEVELOPMENT

10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
772-462-2455

Camping World and Outparcel - Post Development Stormwater Calculations

Project: Camping World
Project #: 16-225
Engineer: DCB
Date: 6/15/2018
Revised:

Land Use Table

Use	Imp. (ac)	Pervious (ac)	Total (ac)
Buildings =	1.84	0.00	1.84
*Future Building (Assume 20%) =	0.49	0.00	0.49
Impervious =	16.90	0.00	16.90
Future Impervious (Assume (60%) =	1.46	0.00	1.46
Dry Detention Area =	0.00	0.89	0.89
Wet Detention Area =	3.19	0.74	3.93
Pervious =	0.00	2.98	2.98
*Future Pervious =	0.00	0.49	0.49
Undeveloped or Preserve Land =	0.00	0.00	0.00
TOTAL =	23.88	5.09	28.97

*Future Outparcel Development Area = 2.44 ac
**Does not include off-site undeveloped site to be routed as pass through

Stage-Area Table

:see stage-storage chart for information.

Find Curve Number:

Avg. Pervious Ground El. = 15.00
Control Elevation = 10.00
Distance to Water Table = 4.00

Soil Storage Table

Depth to W.T. (ft)	Coastal Storage (in)	Flatwoods Storage (in)	Depression Storage (in)
1.0	0.6	0.6	0.6
1.5	1.6	1.6	1.4
2.0	2.5	2.5	2.1
2.5	4.6	4.0	3.3
3.0	6.6	5.4	4.4
3.25	7.7	6.3	5.0
3.5	8.8	7.2	5.6
4.0	10.9	9.0	6.8

Find the basin's soil classification and input below as "Soil Storage" using the above "Depth to W.T.".

Developed Compacted Pervious Area = 3.46 *Does not include BMP area
Undeveloped Pervious Area = 0.00
Soil Storage = 6.80
Soil Moisture Storage (S) = 0.61 inches
Curve Number = **94** inches

Time of Concentration

The following formulas are per the SCS "Urban Hydrology for Small Watersheds" Technical Publication-55.

Sheet flow occurs over plane surfaces.

$$T_{sf} = \frac{.007 * (n * L)^{.8}}{(P_2)^{.5} * (s)^{.4}}$$

T_{sf} = Time of Sheet Flow (hour)
n = Mannings Roughness Coefficient
P_2 = 2-year 24-hour Rainfall (inches)
s = Slope of Hydraulic Grade (feet/feet)
L = Flow Length (feet)

After 300-feet sheet flow usually becomes shallow concentrated flow.

(Unpaved) $V = 16.1345 * (s)^{.5}$
(Paved) $V = 20.3282 * (s)^{.5}$

T_{cf} = Time of Concentrated Flow (hour)
s = Slope of Hydraulic Grade (feet/feet)
V = Average Velocity (feet/second)

Use the velocity to solve for travel time.

$$T_t = \frac{L}{3600 * V}$$

T_t = Travel Time (hour)
L = Flow Length (feet)
V = Average Velocity (feet/second)

When determining flows in open channels use Manning's equation.

$$V = \frac{1.49 * r^{.67} * s^{.5}}{n}$$

r = Hydraulic Radius (feet) equal to a/p_w
s = Slope of Hydraulic Grade (feet/feet)
V = Average Velocity (feet/second)
n = Mannings Roughness Coefficient
a = cross sectional area (sq.ft.)
p_w = wetted perimeter (feet)

* Use the velocity to solve for travel time with the formula above.

This following calculations for the project have a segmented travel flow line.

T_1 = On site (sheet flow).

Parameters for T_{1A} :	n =	0.012	coefficient	
	P_2 =	5.00	inches	
	s =	0.001	foot/foot	
	L =	0	feet	
T_{1A} =	0.0000	hour =	0.00	minutes
T_t =	0.0000	hour =	0.0	
Parameters for T_{1b} :	n =	0.011	coefficient	
	P_2 =	5.00	inches	
	s =	0.020	foot/foot	
	L =	0	feet	
T_{1B} =	0.0000	hour =	0.00	minutes
T_t =	0.0000	hour =	0.0	

Parameter for T2:

V= 0.51021769

V=	0.16		
s =	0.005	foot/foot	
L =	0	feet	

T_1 =	0.0000	hour =	0.00	minutes
T_t =	0.0000	hour =	0.0	

used 10 minutes

TC= total T1A+T1B+T2 0.0

Camping World and Outparcel - Post-Development Water Quality Calculations

Project:	Camping World	**Engineer:**	DCB
Project #:	16-225	**Date:**	6/15/2018

1-inch Over the Project Area - per SFWMD

(Treated Volume) 1-inch * 1-ft/12-in * 28.970 (PROJECT AREA) = 2.41 (TREATED VOLUME) ac-ft

2.5-inches Times the Percent Impervious - per SFWMD

(Site Area) 28.970 (PROJECT AREA (AC)) - (3.189 (LAKES (AC)) + 2.329 (ROOFS (AC))) = 23.453 (SITE AREA) ac

(Impervious Area) 23.453 (SITE AREA (AC)) - 5.091 (PERVIOUS AREA (AC)) = 18.361 (IMPERVIOUS AREA) ac

(% Impervious) IMPERVIOUS AREA * 100% / SITE AREA (AC) = 78.29%

(2.5-in * % Imp.) 2.5-inches * 78.29% (PERCENT IMPERVIOUS) = 1.96 (INCHES TO BE TREATED)

(Treated Volume) 1.96 (TREATED (IN)) * 1-ft/12-in * 25.78 (PROJECT AREA - LAKES (AC)) = 4.21

	SFWMD - STD	SFWMD - OFW
Required Wet Detention (100%) =	**4.21**	**6.31**
Required Dry Detention (75%) =	**3.15**	**4.73**
Required Retention (50%) =	**2.10**	**3.15**

* An additional 0.5-inch of pretreatment for industrial or commercial projects will be needed.
** OFW volume is 150% of the standard SFWMD criteria

Camping World and Outparcel - Post Development Bleeder Size Calculations

Project: Camping World | **Engineer:** DCB
Project #: 16-225 | **Date:** 6/15/2018

Allowed discharge in the first 24-hours is .5-inches of the required detention.

(Discharge Volume) 0.5-inch * 1-ft/12-in * 25.782 (PROJECT AREA - LAKES (AC)) = 1.074 (TREATED VOLUME) ac-ft

(Conversion) 1-day / 86,400-sec. * 43,560-sf / 1-acre * 1.074 (VOLUME (AC-FT)) = 0.542 (DISCHARGE) cfs

Basin Area = 28.970 ac

Lake Area = 3.189 ac

Bleeder Elevation = 10.00 ft

Bleeder Size (dia) = 4.00 in * First iteration use 3-inch diameter bleeder.

Number of bleeders = 1.00 * Enter the number of bleeders.

Water Quality Stage = 11.60 ft * Enter water quality staqe elevation from the stage-storage table spread sheet.

Bleeder Sizing:

Size bleeder to discharge at a rate of 0.5 in/day for the contributing area.

For circular orifice use the following equation.

$$A = \frac{Q}{4.8 * (H)^{.5}}$$

Q = Maximum Flow (cfs)
A = Cross Sectional Area (sq.ft.)
H = Head above bleeder centroid (ft)

Results, Q = 0.542 cfs
H = 1.433 feet

A = 0.0942 sq.ft.

For diameter of the circular orifice use the following equation.

$$d = \left(\frac{4 * A}{Pi}\right)^{.5}$$

d = diameter (ft)
A = Cross Sectional Area (sq.ft.)

Results, A = 0.0942 sq.ft.

d = 0.3464 feet

Finally, the diameter in inches

d = 4.16 inches — Use 4.00" Bleeder

* If diameter is larger than 3-inches than "Bleeder Size" input information needs to be revised until bleeder input size and output diameter equal each other.

Note: add bleeder diameter to control elevation. Ensure that its less than weir elevation by three inches

Camping World and Outparcel - Post Development Stage Storage Calculations

Land use Category	Storage Type	Area (ac.)	From Elev.	To Elev.	Cumulative Stage-Storage (ac-ft)											
					10.00	10.50	11.00	11.50	12.00	12.50	13.50	14.50	15.50	16.50	17.50	18.50
Dry Detention Area																
Dry Detention Bottom - North	Vertical	0.1943	14.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.29	0.49	0.68	0.87
Dry Detention Slopes - North	Linear	0.4959	14.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.28	0.74	1.24	1.74
Dry Detention Bottom - South	Vertical	0.0539	13.50		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.11	0.16	0.22	0.27
Dry Detention Slopes - South	Linear	0.1448	13.50	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.12	0.25	0.40	0.54
DRY WATER QUALITY					**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.21**	**0.79**	**1.64**	**2.53**	**3.42**
Wet Dentention Area																
Wet Detention at C.E.	Vertical	3.1887	10.00		0.00	1.59	3.19	4.78	6.38	7.97	11.16	14.35	17.54	20.73	23.92	27.10
Wet Detention Slopes	Linear	0.7387	10.00	15.00	0.00	0.02	0.07	0.17	0.30	0.46	0.90	1.50	2.22	2.95	3.69	4.43
WET WATER QUALITY					**0.00**	**1.61**	**3.26**	**4.95**	**6.67**	**8.43**	**12.07**	**15.85**	**19.75**	**23.68**	**27.61**	**31.54**
Asphalt & Concrete	Linear	16.9001	16.00	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	7.61	21.13
Open Space	Linear	2.9764	15.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	1.12	3.10	5.95
Future Asphalt & Concrete	Linear	1.4614	16.50	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	1.46
Future Open Space	Linear	0.4871	15.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.18	0.51	0.97
	Sub-Total:	26.64		**Totals:**	**0.00**	**1.61**	**3.26**	**4.95**	**6.67**	**8.43**	**12.07**	**16.06**	**20.69**	**27.47**	**41.72**	**64.47**
Building Pads		1.84	*Not included in Stage-storage calculations													
Future Building Pad		0.49	*Future outparcel, see post development basin assumptions. Not included in Stage-storage calculations.													
	Total:	28.97														

ICPR Volume to Area Conversion

$A_2 = 2((V_2-V_1)/(S_2-S_1)) - A1$

Stage	Volume	Area
10.00	**0.00**	**0.194**
10.50	**1.61**	**6.257**
11.00	**3.26**	**0.000**
11.50	**4.95**	**6.747**
12.00	**6.67**	**0.000**
12.50	**8.43**	**7.042**
13.50	**12.07**	**0.000**
14.50	**16.06**	**7.981**
15.50	**20.69**	**0.000**
16.50	**27.47**	**13.555**
17.50	**41.72**	**14.946**
18.50	**64.47**	**0.000**

Set Water Quality Elevation

Total Water Quality Volume Required:	**6.31**	ac-ft	<---	See Water Quality Volume Calculation Sheet
Required Dry Detention Pre-Treatment:	**0.97**	ac-ft	<---	0.5"/12 x Camping World Project Area (26.53 ac - Lake)
Required Water Quality Dry Pre-Treatment Stage:	**15.71**		<---	Per Stage Storage in Dry Detention Area Only
Proposed Dry Pre-Treatment Weir Elevation:	**15.75**			
Dry Pre-Treatment Detention Volume Provided:	**1.01**			
Wet Detention Water Quality Volume Remaining:	**5.30**	ac-ft	<---	Total Required WQTV - Provided Dry Pre-Treatment
Required Water Quality Wet Detention Stage:	**11.60**	NAVD	<---	Per Stage Storage in Wet Detention Area Only
Proposed Wet Water Quality Weir Elevation:	**11.60**	NAVD		
Wet Water Quality Detention Volume Provided:	**5.30**	ac-ft	<---	Provided Wet Detention Volume between Bleeder and Weir
Total Water Quality Volume Provided:	**6.31**	ac-ft	<---	= Provided Dry Pre-Treatment + Provided Wet Detention

Sufficient Water Quality Treatment Provided

Existing Off-Site Basin Stormwater Calculations

Project: Camping World
Project #: 16-225
Engineer: DCB
Date: 6/15/2018
Revised:

Land Use Table

Use	Imp. (ac)	Pervious (ac)	Total (ac)
Buildings =	0.000	0.000	0.000
Impervious =	0.000	0.000	0.000
Dry Detention Area =	0.000	0.000	0.000
Existing Ditch Area =	0.662	0.000	0.662
Developed Compacted Open Space =	0.000	0.000	0.000
Undeveloped or Preserve Land =	0.000	15.368	15.368
TOTAL =	0.662	15.368	16.030

Stage-Area Table

:see stage-storage chart for information.

Find Curve Number:

Avg. Pervious Ground El. = 15.00
Control Elevation = 10.00
Distance to Water Table = 4.00

Soil Storage Table

Depth to W.T. (ft)	Coastal Storage (in)	Flatwoods Storage (in)	Depression Storage (in)
1.0	0.6	0.6	0.6
1.5	1.6	1.6	1.4
2.0	2.5	2.5	2.1
2.5	4.6	4.0	3.3
3.0	6.6	5.4	4.4
3.25	7.7	6.3	5.0
3.5	8.8	7.2	5.6
4.0	10.9	9.0	6.8

Find the basin's soil classification and input below as "Soil Storage" using the above "Depth to W.T.".

Developed Compacted Pervious Area = 7.68
Undeveloped Pervious Area = 7.68
Soil Storage = 6.80
Soil Moisture Storage (S) = 5.70 inches
Curve Number = **64** inches

Time of Concentration

The following formulas are per the SCS "Urban Hydrology for Small Watersheds" Technical Publication-55.

Sheet flow occurs over plane surfaces.

$$T_{sf} = \frac{.007 * (n * L)^{.8}}{(P_2)^{.5} * (s)^{.4}}$$

T_{sf} = Time of Sheet Flow (hour)
n = Mannings Roughness Coefficient
P_2 = 2-year 24-hour Rainfall (inches)
s = Slope of Hydraulic Grade (feet/feet)
L = Flow Length (feet)

After 300-feet sheet flow usually becomes shallow concentrated flow.

(Unpaved) $V = 16.1345 * (s)^{.5}$
(Paved) $V = 20.3282 * (s)^{.5}$

T_{cf} = Time of Concentrated Flow (hour)
s = Slope of Hydraulic Grade (feet/feet)
V = Average Velocity (feet/second)

Use the velocity to solve for travel time.

$$T_t = \frac{L}{3600 * V}$$

T_t = Travel Time (hour)
L = Flow Length (feet)
V = Average Velocity (feet/second)

When determining flows in open channels use Manning's equation.

$$V = \frac{1.49 * r^{.67} * s^{.5}}{n}$$

r = Hydraulic Radius (feet) equal to a/p_w
s = Slope of Hydraulic Grade (feet/feet)
V = Average Velocity (feet/second)
n = Mannings Roughness Coefficient
a = cross sectional area (sq.ft.)
p_w = wetted perimeter (feet)

* Use the velocity to solve for travel time with the formula above.

This following calculations for the project have a segmented travel flow line.

T_1 = On site (sheet flow).

Parameters for T_{1A} :	n =	0.012	coefficient
	P_2 =	5.00	inches
	s =	0.001	foot/foot
	L =	0	feet

T_{1A} =	0.0000	hour	=	0.00 minutes
T_t =	0.0000	hour	=	0.0

Parameters for T_{1b} :	n =	0.011	coefficient
	P_2 =	5.00	inches
	s =	0.020	foot/foot
	L =	0	feet

T_{1B} =	0.0000	hour	=	0.00 minutes
T_t =	0.0000	hour	=	0.0

Parameter for T2:

V= 0.51021769

V=	0.16	
s =	0.005	foot/foot
L =	0	feet

T_1 =	0.0000	hour	=	0.00 minutes
T_t =	0.0000	hour	=	0.0

used 10 minutes

TC= total T1A+T1B+T2 0.0

Existing Off-Site Basin-Stage Storage Calculations for Camping World

Land use Category	Storage Type	Area (ac.)	From Elev.	To Elev.	Cumulative Stage-Storage (ac-ft)											
					10.00	10.50	11.00	11.50	12.00	12.50	13.50	14.50	15.50	16.50	17.50	18.50
Existing Ditch @ C.E.	Vertical	0.6620	10.00		0.00	0.33	0.66	0.99	1.32	1.65	2.32	2.98	3.64	4.30	4.96	5.63
Existign Ditch Slopes	Linear	0.0000	10.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WATER QUALITY					**0.00**	**0.33**	**0.66**	**0.99**	**1.32**	**1.65**	**2.32**	**2.98**	**3.64**	**4.30**	**4.96**	**5.63**
Asphalt & Concrete	Linear	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Open Space	Linear	15.3680	13.50	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.56	10.25	23.05	38.42	53.79
	Sub-Total:	16.03		**Totals:**	**0.00**	**0.33**	**0.66**	**0.99**	**1.32**	**1.65**	**2.32**	**5.54**	**13.89**	**27.35**	**43.38**	**59.41**
Building Pads		0.00	*Not included in Stage-storage calculations													
	Total:	16.03														

ICPR Volume to Area Conversion

$A_2 = 2((V_2-V_1)/(S_2-S_1)) - A1$

Stage	Volume	Area
10.00	0.00	0.662
10.50	0.33	0.000
11.00	0.66	1.324
11.50	0.99	0.000
12.00	1.32	1.324
12.50	1.65	0.000
13.50	2.32	1.324
14.50	5.54	5.123
15.50	13.89	11.569
16.50	27.35	15.368
17.50	43.38	0.000
18.50	59.41	0.000

Appendix B - ICPR Routing Developed Condition Model Initial Storm Events

ENGINEERING DESIGN & CONSTRUCTION, INC
CIVIL ENGINEERS & SURVEYORS SPECIALIZING IN LAND DEVELOPMENT

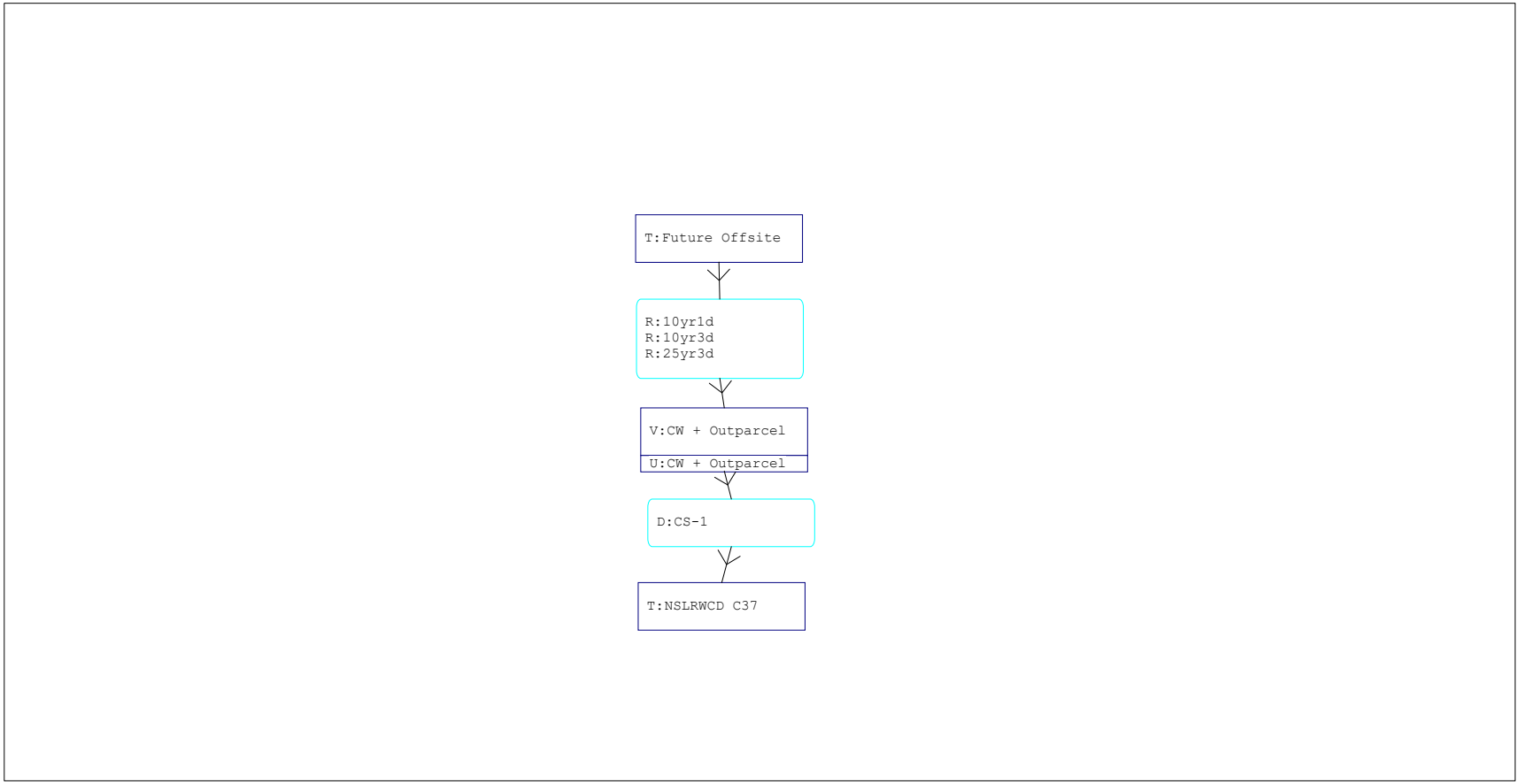
10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
772-462-2455

16-225 Camping World - Initial Storm Routing
Nodal Diagram

Nodes
A Stage/Area
V Stage/Volume
T Time/Stage
M Manhole

Basins
O Overland Flow
U SCS Unit CN
S SBUH CN
Y SCS Unit GA
Z SBUH GA

Links
P Pipe
W Weir
C Channel
D Drop Structure
B Bridge
R Rating Curve
H Breach
E Percolation
F Filter
X Exfil Trench



Interconnected Channel and Pond Routing Model (ICPR) ©2002 Streamline Technologies, Inc.

==========
==== Basins ====
==========

Name: CW + Outparcel Node: CW + Outparcel Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 28.970 Time Shift(hrs): 0.00
Curve Number: 94.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

==========
==== Nodes ====
==========

Name: CW + Outparcel Base Flow(cfs): 0.000 Init Stage(ft): 10.000
Group: BASE Warn Stage(ft): 18.500
Type: Stage/Volume

Stage(ft)	Volume(af)
10.000	0.0000
10.500	1.6100
11.000	3.2600
11.500	4.9500
12.000	6.6700
12.500	8.4300
13.500	12.0700
14.500	16.0600
15.500	20.6900
16.500	27.4700
17.500	41.7200
18.500	64.4700

Name: Future Offsite Base Flow(cfs): 0.000 Init Stage(ft): 13.000
Group: Offsite Warn Stage(ft): 18.500
Type: Time/Stage

Time(hrs)	Stage(ft)
0.00	13.000
62.00	13.000
360.00	13.000

Name: NSLRWCD C37 Base Flow(cfs): 0.000 Init Stage(ft): 7.780
Group: BASE Warn Stage(ft): 18.500
Type: Time/Stage

Time(hrs)	Stage(ft)
0.00	7.780
62.00	7.780
360.00	7.780

==========
==== Operating Tables ====
==========

Name: 10yr1d Group: 10yr1d
Type: Rating Curve
Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
24.00	1.00
120.00	0.00

Name: 10yr3d Group: 10yr3d
Type: Rating Curve

Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
62.00	1.41
360.00	0.00

Name: 25yr3d Group: 25yr3d
Type: Rating Curve
Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
62.00	1.58
360.00	0.00

==========

Drop Structures

==========

Name: CS-1 From Node: CW + Outparcel Length(ft): 35.00
Group: Outfalls To Node: NSLRWCD C37 Count: 1

	UPSTREAM	DOWNSTREAM		
Geometry:	Circular	Circular	Friction Equation:	Automatic
Span(in):	36.00	36.00	Solution Algorithm:	Most Restrictive
Rise(in):	36.00	36.00	Flow:	Both
Invert(ft):	8.650	8.440	Entrance Loss Coef:	0.000
Manning's N:	0.012000	0.012000	Exit Loss Coef:	1.000
Top Clip(in):	0.000	0.000	Outlet Ctrl Spec:	Use dc or tw
Bot Clip(in):	0.000	0.000	Inlet Ctrl Spec:	Use dc
			Solution Incs:	10

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Groove end projecting

*** Weir 1 of 4 for Drop Structure CS-1 ***

TABLE

Count: 1 Bottom Clip(in): 0.000
Type: Vertical: Mavis Top Clip(in): 0.000
Flow: Both Weir Disc Coef: 3.200
Geometry: Circular Orifice Disc Coef: 0.600

Span(in): 4.00 Invert(ft): 10.000
Rise(in): 4.00 Control Elev(ft): 10.000

*** Weir 2 of 4 for Drop Structure CS-1 ***

TABLE

Count: 1 Bottom Clip(in): 0.000
Type: Vertical: Mavis Top Clip(in): 0.000
Flow: Both Weir Disc Coef: 3.200
Geometry: Rectangular Orifice Disc Coef: 0.600

Span(in): 8.00 Invert(ft): 11.600
Rise(in): 6.00 Control Elev(ft): 11.600

*** Weir 3 of 4 for Drop Structure CS-1 ***

TABLE

Count: 1 Bottom Clip(in): 0.000
Type: Vertical: Mavis Top Clip(in): 0.000
Flow: Both Weir Disc Coef: 3.200
Geometry: Rectangular Orifice Disc Coef: 0.600

Span(in): 54.00 Invert(ft): 15.250
Rise(in): 6.00 Control Elev(ft): 15.250

*** Weir 4 of 4 for Drop Structure CS-1 ***

TABLE

Count: 1 Bottom Clip(in): 0.000
Type: Horizontal Top Clip(in): 0.000
Flow: Both Weir Disc Coef: 3.200
Geometry: Rectangular Orifice Disc Coef: 0.600

Span(in): 54.00 Invert(ft): 15.750
Rise(in): 18.00 Control Elev(ft): 15.750

```
================================================================================
==== Rating Curves =============================================================
================================================================================

         Name: 10yr1d              From Node: Future Offsite          Count: 1
        Group: 10yr1d                To Node: CW + Outparcel          Flow: Both

               TABLE           ELEV ON(ft)     ELEV OFF(ft)
           #1: 10yr1d          13.000          13.000
           #2:                 0.000           0.000
           #3:                 0.000           0.000
           #4:                 0.000           0.000



--------------------------------------------------------------------------------------------------------
         Name: 10yr3d              From Node: Future Offsite          Count: 1
        Group: 10yr3d                To Node: CW + Outparcel          Flow: Both

               TABLE           ELEV ON(ft)     ELEV OFF(ft)
           #1: 10yr3d          13.000          13.000
           #2:                 0.000           0.000
           #3:                 0.000           0.000
           #4:                 0.000           0.000



--------------------------------------------------------------------------------------------------------
         Name: 25yr3d              From Node: Future Offsite          Count: 1
        Group: 25yr3d                To Node: CW + Outparcel          Flow: Both

               TABLE           ELEV ON(ft)     ELEV OFF(ft)
           #1: 25yr3d          13.000          13.000
           #2:                 0.000           0.000
           #3:                 0.000           0.000
           #4:                 0.000           0.000



================================================================================
==== Hydrology Simulations =====================================================
================================================================================

          Name: 100yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\100yr3d.R32

       Override Defaults: Yes
    Storm Duration(hrs): 72.00
          Rainfall File: Sfwmd72
    Rainfall Amount(in): 12.23

Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         5.00

--------------------------------------------------------------------------------------------------------
          Name: 10yr1d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr1d.R32

       Override Defaults: Yes
    Storm Duration(hrs): 24.00
          Rainfall File: Scsiii
    Rainfall Amount(in): 6.00

Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         5.00

--------------------------------------------------------------------------------------------------------
          Name: 10yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr3d.R32

       Override Defaults: Yes
    Storm Duration(hrs): 72.00
          Rainfall File: Sfwmd72
    Rainfall Amount(in): 8.50

Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         5.00

--------------------------------------------------------------------------------------------------------
          Name: 25yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\25yr3d.R32

       Override Defaults: Yes
```

```
    Storm Duration(hrs): 72.00
          Rainfall File: Sfwmd72
    Rainfall Amount(in): 9.50

Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         5.00

================================================================================
==== Routing Simulations ======================================================
================================================================================

         Name: 100yr3d             Hydrology Sim: 100yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\100yr3d.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 360.00
     Min Calc Time(sec): 0.5000              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:


Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         15.000

Group           Run
--------------- -----
BASE            Yes
Offsite         Yes


--------------------------------------------------------------------------------------------------------
         Name: 10yr1d              Hydrology Sim: 10yr1d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr1d.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 360.00
     Min Calc Time(sec): 0.5000              Max Calc Time(sec): 60.0000
        Boundary Stages: 10yr1d                  Boundary Flows:


Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         15.000

Group           Run
--------------- -----
10yr1d          Yes
BASE            Yes
Offsite         Yes
Outfalls        Yes


--------------------------------------------------------------------------------------------------------
         Name: 10yr3d              Hydrology Sim: 10yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr3d.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 360.00
     Min Calc Time(sec): 0.5000              Max Calc Time(sec): 60.0000
        Boundary Stages: 10yr3d                  Boundary Flows:


Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         15.000

Group           Run
--------------- -----
10yr3d          Yes
BASE            Yes
Offsite         Yes
```

Outfalls Yes

Name: 25yr3d Hydrology Sim: 25yr3d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\25yr3d.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 360.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: 10yr3d Boundary Flows:

Time(hrs)	Print Inc(min)
360.000	15.000

Group	Run
25yr3d	Yes
BASE	Yes
Offsite	Yes
Outfalls	Yes

==== Boundary Conditions ====

Name: 10yr1d Node: NSLRWCD C37 Type: Stage

Time(hrs)	Stage(ft)
0.000	7.780
1.330	9.420
2.670	9.730
4.000	10.770
5.330	10.140
6.670	9.590
8.000	9.420
9.330	9.530
10.670	9.770
12.000	11.060
13.330	10.300
14.670	9.650
16.000	9.450
17.330	9.650
18.670	10.010
20.000	11.950
21.330	10.810
22.670	9.830
24.000	9.530
360.000	7.780

Name: 10yr3d Node: NSLRWCD C37 Type: Stage

Time(hrs)	Stage(ft)
0.000	7.780
4.000	10.580
8.000	10.950
12.000	12.060
16.000	11.360
20.000	10.760
24.000	10.580
28.000	10.700
32.000	10.960
36.000	12.390
40.000	11.540
44.000	10.830
48.000	10.610
52.000	10.830
56.000	11.230
60.000	13.370
64.000	12.110
68.000	11.020
72.000	10.700
360.000	7.780

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CW + Outparcel	BASE	100yr3d	73.00	16.35	18.50	0.0050	425735	60.00	156.04	0.00	0.00
CW + Outparcel	BASE	10yr1d	23.67	13.28	18.50	0.0050	163956	12.25	101.27	23.67	2.66
CW + Outparcel	BASE	10yr3d	68.41	15.17	18.50	0.0050	228225	60.00	109.14	72.01	3.79
CW + Outparcel	BASE	25yr3d	68.01	15.45	18.50	0.0050	245420	60.00	122.26	68.03	5.20
Future Offsite	Offsite	100yr3d	0.00	13.00	18.50	0.0000	0	0.00	0.00	0.00	0.00
Future Offsite	Offsite	10yr1d	0.00	13.00	18.50	0.0000	0	0.00	0.00	24.01	1.00
Future Offsite	Offsite	10yr3d	0.00	13.00	18.50	0.0000	0	0.00	0.00	62.01	1.41
Future Offsite	Offsite	25yr3d	0.00	13.00	18.50	0.0000	0	0.00	0.00	62.01	1.58
NSLRWCD C37	BASE	100yr3d	0.00	7.78	18.50	0.0000	0	0.00	0.00	0.00	0.00
NSLRWCD C37	BASE	10yr1d	20.01	11.94	18.50	0.0243	0	23.67	2.66	0.00	0.00
NSLRWCD C37	BASE	10yr3d	60.00	13.37	18.50	0.0117	0	72.01	3.79	0.00	0.00
NSLRWCD C37	BASE	25yr3d	60.00	13.37	18.50	0.0117	0	68.03	5.20	0.00	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	0.00	7.78	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	0.26	7.96	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	0.50	8.13	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	0.77	8.32	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	1.02	8.49	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	1.27	8.67	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	1.52	8.84	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	1.77	9.02	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	2.02	9.19	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	2.27	9.37	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	2.52	9.54	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	2.77	9.72	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	3.02	9.89	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	3.27	10.07	18.50	0	-0.01	0.00	-0.00	0.00
10yr3d	NSLRWCD C37	BASE	3.52	10.24	18.50	0	-0.10	0.00	-0.00	0.00
10yr3d	NSLRWCD C37	BASE	3.77	10.42	18.50	0	-0.21	0.00	-0.00	0.00
10yr3d	NSLRWCD C37	BASE	4.02	10.58	18.50	0	-0.27	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	4.27	10.60	18.50	0	-0.28	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	4.52	10.63	18.50	0	-0.28	0.00	-0.02	0.00
10yr3d	NSLRWCD C37	BASE	4.77	10.65	18.50	0	-0.29	0.00	-0.03	0.00
10yr3d	NSLRWCD C37	BASE	5.02	10.67	18.50	0	-0.30	0.00	-0.03	0.00
10yr3d	NSLRWCD C37	BASE	5.27	10.70	18.50	0	-0.31	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	5.52	10.72	18.50	0	-0.31	0.00	-0.05	0.00
10yr3d	NSLRWCD C37	BASE	5.77	10.74	18.50	0	-0.32	0.00	-0.05	0.00
10yr3d	NSLRWCD C37	BASE	6.02	10.77	18.50	0	-0.32	0.00	-0.06	0.00
10yr3d	NSLRWCD C37	BASE	6.27	10.79	18.50	0	-0.33	0.00	-0.07	0.00
10yr3d	NSLRWCD C37	BASE	6.52	10.81	18.50	0	-0.34	0.00	-0.07	0.00
10yr3d	NSLRWCD C37	BASE	6.77	10.84	18.50	0	-0.34	0.00	-0.08	0.00
10yr3d	NSLRWCD C37	BASE	7.02	10.86	18.50	0	-0.35	0.00	-0.09	0.00
10yr3d	NSLRWCD C37	BASE	7.27	10.88	18.50	0	-0.35	0.00	-0.09	0.00
10yr3d	NSLRWCD C37	BASE	7.52	10.91	18.50	0	-0.36	0.00	-0.10	0.00
10yr3d	NSLRWCD C37	BASE	7.77	10.93	18.50	0	-0.37	0.00	-0.11	0.00
10yr3d	NSLRWCD C37	BASE	8.02	10.95	18.50	0	-0.37	0.00	-0.12	0.00
10yr3d	NSLRWCD C37	BASE	8.27	11.02	18.50	0	-0.39	0.00	-0.12	0.00
10yr3d	NSLRWCD C37	BASE	8.52	11.09	18.50	0	-0.40	0.00	-0.13	0.00
10yr3d	NSLRWCD C37	BASE	8.77	11.16	18.50	0	-0.42	0.00	-0.14	0.00
10yr3d	NSLRWCD C37	BASE	9.02	11.23	18.50	0	-0.43	0.00	-0.15	0.00
10yr3d	NSLRWCD C37	BASE	9.27	11.30	18.50	0	-0.45	0.00	-0.16	0.00
10yr3d	NSLRWCD C37	BASE	9.52	11.37	18.50	0	-0.46	0.00	-0.17	0.00
10yr3d	NSLRWCD C37	BASE	9.77	11.44	18.50	0	-0.47	0.00	-0.18	0.00
10yr3d	NSLRWCD C37	BASE	10.02	11.51	18.50	0	-0.49	0.00	-0.19	0.00
10yr3d	NSLRWCD C37	BASE	10.27	11.58	18.50	0	-0.50	0.00	-0.20	0.00
10yr3d	NSLRWCD C37	BASE	10.52	11.65	18.50	0	-0.53	0.00	-0.21	0.00
10yr3d	NSLRWCD C37	BASE	10.77	11.72	18.50	0	-0.61	0.00	-0.22	0.00
10yr3d	NSLRWCD C37	BASE	11.02	11.79	18.50	0	-0.70	0.00	-0.23	0.00
10yr3d	NSLRWCD C37	BASE	11.27	11.86	18.50	0	-0.81	0.00	-0.25	0.00
10yr3d	NSLRWCD C37	BASE	11.52	11.93	18.50	0	-0.94	0.00	-0.27	0.00
10yr3d	NSLRWCD C37	BASE	11.77	12.00	18.50	0	-1.07	0.00	-0.29	0.00
10yr3d	NSLRWCD C37	BASE	12.02	12.06	18.50	0	-1.21	0.00	-0.31	0.00
10yr3d	NSLRWCD C37	BASE	12.27	12.01	18.50	0	-1.11	0.00	-0.34	0.00
10yr3d	NSLRWCD C37	BASE	12.52	11.97	18.50	0	-1.02	0.00	-0.36	0.00
10yr3d	NSLRWCD C37	BASE	12.77	11.93	18.50	0	-0.93	0.00	-0.38	0.00
10yr3d	NSLRWCD C37	BASE	13.02	11.88	18.50	0	-0.84	0.00	-0.40	0.00
10yr3d	NSLRWCD C37	BASE	13.27	11.84	18.50	0	-0.76	0.00	-0.41	0.00
10yr3d	NSLRWCD C37	BASE	13.52	11.79	18.50	0	-0.69	0.00	-0.43	0.00
10yr3d	NSLRWCD C37	BASE	13.77	11.75	18.50	0	-0.63	0.00	-0.44	0.00
10yr3d	NSLRWCD C37	BASE	14.02	11.71	18.50	0	-0.57	0.00	-0.45	0.00
10yr3d	NSLRWCD C37	BASE	14.27	11.66	18.50	0	-0.52	0.00	-0.46	0.00
10yr3d	NSLRWCD C37	BASE	14.52	11.62	18.50	0	-0.48	0.00	-0.47	0.00
10yr3d	NSLRWCD C37	BASE	14.77	11.58	18.50	0	-0.47	0.00	-0.48	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	15.02	11.53	18.50	0	-0.46	0.00	-0.49	0.00
10yr3d	NSLRWCD C37	BASE	15.27	11.49	18.50	0	-0.45	0.00	-0.50	0.00
10yr3d	NSLRWCD C37	BASE	15.52	11.44	18.50	0	-0.43	0.00	-0.51	0.00
10yr3d	NSLRWCD C37	BASE	15.77	11.40	18.50	0	-0.42	0.00	-0.52	0.00
10yr3d	NSLRWCD C37	BASE	16.02	11.36	18.50	0	-0.41	0.00	-0.53	0.00
10yr3d	NSLRWCD C37	BASE	16.27	11.32	18.50	0	-0.40	0.00	-0.54	0.00
10yr3d	NSLRWCD C37	BASE	16.52	11.28	18.50	0	-0.39	0.00	-0.55	0.00
10yr3d	NSLRWCD C37	BASE	16.77	11.25	18.50	0	-0.38	0.00	-0.55	0.00
10yr3d	NSLRWCD C37	BASE	17.02	11.21	18.50	0	-0.37	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	17.27	11.17	18.50	0	-0.36	0.00	-0.57	0.00
10yr3d	NSLRWCD C37	BASE	17.52	11.13	18.50	0	-0.35	0.00	-0.58	0.00
10yr3d	NSLRWCD C37	BASE	17.77	11.10	18.50	0	-0.33	0.00	-0.58	0.00
10yr3d	NSLRWCD C37	BASE	18.02	11.06	18.50	0	-0.32	0.00	-0.59	0.00
10yr3d	NSLRWCD C37	BASE	18.27	11.02	18.50	0	-0.31	0.00	-0.60	0.00
10yr3d	NSLRWCD C37	BASE	18.52	10.98	18.50	0	-0.30	0.00	-0.60	0.00
10yr3d	NSLRWCD C37	BASE	18.77	10.95	18.50	0	-0.28	0.00	-0.61	0.00
10yr3d	NSLRWCD C37	BASE	19.02	10.91	18.50	0	-0.27	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	19.27	10.87	18.50	0	-0.25	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	19.52	10.83	18.50	0	-0.23	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	19.77	10.80	18.50	0	-0.21	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	20.02	10.76	18.50	0	-0.19	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	20.27	10.75	18.50	0	-0.18	0.00	-0.64	0.00
10yr3d	NSLRWCD C37	BASE	20.52	10.74	18.50	0	-0.17	0.00	-0.64	0.00
10yr3d	NSLRWCD C37	BASE	20.77	10.73	18.50	0	-0.16	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	21.02	10.71	18.50	0	-0.15	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	21.27	10.70	18.50	0	-0.14	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	21.52	10.69	18.50	0	-0.13	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	21.77	10.68	18.50	0	-0.11	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	22.02	10.67	18.50	0	-0.09	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	22.27	10.66	18.50	0	-0.07	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	22.52	10.65	18.50	0	-0.04	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	22.77	10.64	18.50	0	0.04	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	23.02	10.62	18.50	0	0.07	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	23.27	10.61	18.50	0	0.09	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	23.52	10.60	18.50	0	0.11	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	23.77	10.59	18.50	0	0.12	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	24.02	10.58	18.50	0	0.14	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	24.27	10.59	18.50	0	0.14	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	24.52	10.60	18.50	0	0.14	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	24.77	10.60	18.50	0	0.14	0.00	-0.64	0.00
10yr3d	NSLRWCD C37	BASE	25.02	10.61	18.50	0	0.14	0.00	-0.64	0.00
10yr3d	NSLRWCD C37	BASE	25.27	10.62	18.50	0	0.15	0.00	-0.64	0.00
10yr3d	NSLRWCD C37	BASE	25.52	10.63	18.50	0	0.15	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	25.77	10.63	18.50	0	0.15	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	26.02	10.64	18.50	0	0.15	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	26.27	10.65	18.50	0	0.15	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	26.52	10.66	18.50	0	0.16	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	26.77	10.66	18.50	0	0.16	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	27.02	10.67	18.50	0	0.16	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	27.27	10.68	18.50	0	0.16	0.00	-0.61	0.00
10yr3d	NSLRWCD C37	BASE	27.52	10.69	18.50	0	0.16	0.00	-0.61	0.00
10yr3d	NSLRWCD C37	BASE	27.77	10.69	18.50	0	0.17	0.00	-0.61	0.00
10yr3d	NSLRWCD C37	BASE	28.02	10.70	18.50	0	0.17	0.00	-0.60	0.00
10yr3d	NSLRWCD C37	BASE	28.27	10.72	18.50	0	0.17	0.00	-0.60	0.00
10yr3d	NSLRWCD C37	BASE	28.52	10.73	18.50	0	0.16	0.00	-0.60	0.00
10yr3d	NSLRWCD C37	BASE	28.77	10.75	18.50	0	0.16	0.00	-0.59	0.00
10yr3d	NSLRWCD C37	BASE	29.02	10.77	18.50	0	0.16	0.00	-0.59	0.00
10yr3d	NSLRWCD C37	BASE	29.27	10.78	18.50	0	0.16	0.00	-0.59	0.00
10yr3d	NSLRWCD C37	BASE	29.52	10.80	18.50	0	0.15	0.00	-0.58	0.00
10yr3d	NSLRWCD C37	BASE	29.77	10.81	18.50	0	0.15	0.00	-0.58	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	30.02	10.83	18.50	0	0.15	0.00	-0.58	0.00
10yr3d	NSLRWCD C37	BASE	30.27	10.85	18.50	0	0.14	0.00	-0.57	0.00
10yr3d	NSLRWCD C37	BASE	30.52	10.86	18.50	0	0.14	0.00	-0.57	0.00
10yr3d	NSLRWCD C37	BASE	30.77	10.88	18.50	0	0.14	0.00	-0.57	0.00
10yr3d	NSLRWCD C37	BASE	31.02	10.90	18.50	0	0.14	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	31.27	10.91	18.50	0	0.13	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	31.52	10.93	18.50	0	0.13	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	31.77	10.94	18.50	0	0.13	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	32.02	10.97	18.50	0	0.12	0.00	-0.55	0.00
10yr3d	NSLRWCD C37	BASE	32.27	11.06	18.50	0	0.04	0.00	-0.55	0.00
10yr3d	NSLRWCD C37	BASE	32.52	11.14	18.50	0	-0.11	0.00	-0.55	0.00
10yr3d	NSLRWCD C37	BASE	32.77	11.23	18.50	0	-0.16	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	33.02	11.32	18.50	0	-0.19	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	33.27	11.41	18.50	0	-0.23	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	33.52	11.50	18.50	0	-0.25	0.00	-0.57	0.00
10yr3d	NSLRWCD C37	BASE	33.77	11.59	18.50	0	-0.28	0.00	-0.57	0.00
10yr3d	NSLRWCD C37	BASE	34.02	11.68	18.50	0	-0.35	0.00	-0.58	0.00
10yr3d	NSLRWCD C37	BASE	34.27	11.77	18.50	0	-0.47	0.00	-0.59	0.00
10yr3d	NSLRWCD C37	BASE	34.52	11.86	18.50	0	-0.62	0.00	-0.60	0.00
10yr3d	NSLRWCD C37	BASE	34.77	11.95	18.50	0	-0.79	0.00	-0.61	0.00
10yr3d	NSLRWCD C37	BASE	35.02	12.04	18.50	0	-0.98	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	35.27	12.13	18.50	0	-1.18	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	35.52	12.22	18.50	0	-1.36	0.00	-0.68	0.00
10yr3d	NSLRWCD C37	BASE	35.77	12.31	18.50	0	-1.49	0.00	-0.71	0.00
10yr3d	NSLRWCD C37	BASE	36.02	12.39	18.50	0	-1.59	0.00	-0.74	0.00
10yr3d	NSLRWCD C37	BASE	36.27	12.33	18.50	0	-1.52	0.00	-0.77	0.00
10yr3d	NSLRWCD C37	BASE	36.52	12.28	18.50	0	-1.44	0.00	-0.81	0.00
10yr3d	NSLRWCD C37	BASE	36.77	12.23	18.50	0	-1.35	0.00	-0.83	0.00
10yr3d	NSLRWCD C37	BASE	37.02	12.17	18.50	0	-1.25	0.00	-0.86	0.00
10yr3d	NSLRWCD C37	BASE	37.27	12.12	18.50	0	-1.13	0.00	-0.89	0.00
10yr3d	NSLRWCD C37	BASE	37.52	12.07	18.50	0	-1.00	0.00	-0.91	0.00
10yr3d	NSLRWCD C37	BASE	37.77	12.01	18.50	0	-0.87	0.00	-0.93	0.00
10yr3d	NSLRWCD C37	BASE	38.02	11.96	18.50	0	-0.74	0.00	-0.94	0.00
10yr3d	NSLRWCD C37	BASE	38.27	11.91	18.50	0	-0.62	0.00	-0.96	0.00
10yr3d	NSLRWCD C37	BASE	38.52	11.86	18.50	0	-0.51	0.00	-0.97	0.00
10yr3d	NSLRWCD C37	BASE	38.77	11.80	18.50	0	-0.40	0.00	-0.98	0.00
10yr3d	NSLRWCD C37	BASE	39.02	11.75	18.50	0	-0.30	0.00	-0.99	0.00
10yr3d	NSLRWCD C37	BASE	39.27	11.70	18.50	0	-0.20	0.00	-0.99	0.00
10yr3d	NSLRWCD C37	BASE	39.52	11.64	18.50	0	-0.11	0.00	-0.99	0.00
10yr3d	NSLRWCD C37	BASE	39.77	11.59	18.50	0	0.07	0.00	-0.99	0.00
10yr3d	NSLRWCD C37	BASE	40.02	11.54	18.50	0	0.14	0.00	-0.99	0.00
10yr3d	NSLRWCD C37	BASE	40.27	11.49	18.50	0	0.18	0.00	-0.99	0.00
10yr3d	NSLRWCD C37	BASE	40.52	11.45	18.50	0	0.22	0.00	-0.98	0.00
10yr3d	NSLRWCD C37	BASE	40.77	11.40	18.50	0	0.25	0.00	-0.98	0.00
10yr3d	NSLRWCD C37	BASE	41.02	11.36	18.50	0	0.29	0.00	-0.97	0.00
10yr3d	NSLRWCD C37	BASE	41.27	11.32	18.50	0	0.32	0.00	-0.97	0.00
10yr3d	NSLRWCD C37	BASE	41.52	11.27	18.50	0	0.35	0.00	-0.96	0.00
10yr3d	NSLRWCD C37	BASE	41.77	11.23	18.50	0	0.38	0.00	-0.95	0.00
10yr3d	NSLRWCD C37	BASE	42.02	11.18	18.50	0	0.41	0.00	-0.95	0.00
10yr3d	NSLRWCD C37	BASE	42.27	11.14	18.50	0	0.44	0.00	-0.94	0.00
10yr3d	NSLRWCD C37	BASE	42.52	11.09	18.50	0	0.47	0.00	-0.93	0.00
10yr3d	NSLRWCD C37	BASE	42.77	11.05	18.50	0	0.50	0.00	-0.92	0.00
10yr3d	NSLRWCD C37	BASE	43.02	11.00	18.50	0	0.53	0.00	-0.91	0.00
10yr3d	NSLRWCD C37	BASE	43.27	10.96	18.50	0	0.56	0.00	-0.90	0.00
10yr3d	NSLRWCD C37	BASE	43.52	10.92	18.50	0	0.59	0.00	-0.88	0.00
10yr3d	NSLRWCD C37	BASE	43.77	10.87	18.50	0	0.62	0.00	-0.87	0.00
10yr3d	NSLRWCD C37	BASE	44.02	10.83	18.50	0	0.65	0.00	-0.86	0.00
10yr3d	NSLRWCD C37	BASE	44.27	10.82	18.50	0	0.67	0.00	-0.84	0.00
10yr3d	NSLRWCD C37	BASE	44.52	10.80	18.50	0	0.69	0.00	-0.83	0.00
10yr3d	NSLRWCD C37	BASE	44.77	10.79	18.50	0	0.72	0.00	-0.82	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	45.02	10.77	18.50	0	0.74	0.00	-0.80	0.00
10yr3d	NSLRWCD C37	BASE	45.27	10.76	18.50	0	0.76	0.00	-0.78	0.00
10yr3d	NSLRWCD C37	BASE	45.52	10.75	18.50	0	0.78	0.00	-0.77	0.00
10yr3d	NSLRWCD C37	BASE	45.77	10.73	18.50	0	0.81	0.00	-0.75	0.00
10yr3d	NSLRWCD C37	BASE	46.02	10.72	18.50	0	0.83	0.00	-0.74	0.00
10yr3d	NSLRWCD C37	BASE	46.27	10.71	18.50	0	0.85	0.00	-0.72	0.00
10yr3d	NSLRWCD C37	BASE	46.52	10.69	18.50	0	0.88	0.00	-0.70	0.00
10yr3d	NSLRWCD C37	BASE	46.77	10.68	18.50	0	0.90	0.00	-0.68	0.00
10yr3d	NSLRWCD C37	BASE	47.02	10.66	18.50	0	0.92	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	47.27	10.65	18.50	0	0.95	0.00	-0.64	0.00
10yr3d	NSLRWCD C37	BASE	47.52	10.64	18.50	0	0.97	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	47.77	10.62	18.50	0	0.99	0.00	-0.60	0.00
10yr3d	NSLRWCD C37	BASE	48.02	10.61	18.50	0	1.02	0.00	-0.58	0.00
10yr3d	NSLRWCD C37	BASE	48.27	10.62	18.50	0	1.04	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	48.52	10.64	18.50	0	1.06	0.00	-0.54	0.00
10yr3d	NSLRWCD C37	BASE	48.77	10.65	18.50	0	1.08	0.00	-0.52	0.00
10yr3d	NSLRWCD C37	BASE	49.02	10.67	18.50	0	1.10	0.00	-0.50	0.00
10yr3d	NSLRWCD C37	BASE	49.27	10.68	18.50	0	1.12	0.00	-0.47	0.00
10yr3d	NSLRWCD C37	BASE	49.52	10.69	18.50	0	1.14	0.00	-0.45	0.00
10yr3d	NSLRWCD C37	BASE	49.77	10.71	18.50	0	1.16	0.00	-0.43	0.00
10yr3d	NSLRWCD C37	BASE	50.02	10.72	18.50	0	1.18	0.00	-0.40	0.00
10yr3d	NSLRWCD C37	BASE	50.27	10.73	18.50	0	1.21	0.00	-0.38	0.00
10yr3d	NSLRWCD C37	BASE	50.52	10.75	18.50	0	1.23	0.00	-0.35	0.00
10yr3d	NSLRWCD C37	BASE	50.77	10.76	18.50	0	1.26	0.00	-0.33	0.00
10yr3d	NSLRWCD C37	BASE	51.02	10.78	18.50	0	1.28	0.00	-0.30	0.00
10yr3d	NSLRWCD C37	BASE	51.27	10.79	18.50	0	1.30	0.00	-0.27	0.00
10yr3d	NSLRWCD C37	BASE	51.52	10.80	18.50	0	1.32	0.00	-0.25	0.00
10yr3d	NSLRWCD C37	BASE	51.77	10.82	18.50	0	1.35	0.00	-0.22	0.00
10yr3d	NSLRWCD C37	BASE	52.02	10.83	18.50	0	1.37	0.00	-0.19	0.00
10yr3d	NSLRWCD C37	BASE	52.27	10.86	18.50	0	1.40	0.00	-0.16	0.00
10yr3d	NSLRWCD C37	BASE	52.52	10.88	18.50	0	1.42	0.00	-0.13	0.00
10yr3d	NSLRWCD C37	BASE	52.77	10.91	18.50	0	1.44	0.00	-0.10	0.00
10yr3d	NSLRWCD C37	BASE	53.02	10.93	18.50	0	1.46	0.00	-0.07	0.00
10yr3d	NSLRWCD C37	BASE	53.27	10.96	18.50	0	1.48	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	53.52	10.98	18.50	0	1.51	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	53.77	11.01	18.50	0	1.53	0.00	0.02	0.00
10yr3d	NSLRWCD C37	BASE	54.02	11.03	18.50	0	1.55	0.00	0.05	0.00
10yr3d	NSLRWCD C37	BASE	54.27	11.06	18.50	0	1.58	0.00	0.08	0.00
10yr3d	NSLRWCD C37	BASE	54.52	11.08	18.50	0	1.60	0.00	0.12	0.00
10yr3d	NSLRWCD C37	BASE	54.77	11.11	18.50	0	1.63	0.00	0.15	0.00
10yr3d	NSLRWCD C37	BASE	55.02	11.13	18.50	0	1.65	0.00	0.18	0.00
10yr3d	NSLRWCD C37	BASE	55.27	11.16	18.50	0	1.68	0.00	0.22	0.00
10yr3d	NSLRWCD C37	BASE	55.52	11.18	18.50	0	1.71	0.00	0.25	0.00
10yr3d	NSLRWCD C37	BASE	55.77	11.21	18.50	0	1.73	0.00	0.29	0.00
10yr3d	NSLRWCD C37	BASE	56.02	11.24	18.50	0	1.76	0.00	0.33	0.00
10yr3d	NSLRWCD C37	BASE	56.27	11.37	18.50	0	1.77	0.00	0.36	0.00
10yr3d	NSLRWCD C37	BASE	56.52	11.51	18.50	0	1.78	0.00	0.40	0.00
10yr3d	NSLRWCD C37	BASE	56.77	11.64	18.50	0	1.79	0.00	0.44	0.00
10yr3d	NSLRWCD C37	BASE	57.02	11.77	18.50	0	1.79	0.00	0.47	0.00
10yr3d	NSLRWCD C37	BASE	57.27	11.91	18.50	0	1.74	0.00	0.51	0.00
10yr3d	NSLRWCD C37	BASE	57.52	12.04	18.50	0	1.62	0.00	0.54	0.00
10yr3d	NSLRWCD C37	BASE	57.77	12.17	18.50	0	1.50	0.00	0.58	0.00
10yr3d	NSLRWCD C37	BASE	58.02	12.31	18.50	0	1.37	0.00	0.61	0.00
10yr3d	NSLRWCD C37	BASE	58.27	12.44	18.50	0	1.23	0.00	0.63	0.00
10yr3d	NSLRWCD C37	BASE	58.52	12.58	18.50	0	1.09	0.00	0.66	0.00
10yr3d	NSLRWCD C37	BASE	58.77	12.71	18.50	0	0.93	0.00	0.68	0.00
10yr3d	NSLRWCD C37	BASE	59.02	12.84	18.50	0	0.76	0.00	0.69	0.00
10yr3d	NSLRWCD C37	BASE	59.26	12.98	18.50	0	0.60	0.00	0.71	0.00
10yr3d	NSLRWCD C37	BASE	59.50	13.10	18.50	0	0.45	0.00	0.72	0.00
10yr3d	NSLRWCD C37	BASE	59.75	13.24	18.50	0	0.86	0.00	0.73	0.00

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	60.00	13.37	18.50	0	1.50	0.00	0.76	0.00
10yr3d	NSLRWCD C37	BASE	60.25	13.29	18.50	0	2.08	0.00	0.79	0.00
10yr3d	NSLRWCD C37	BASE	60.50	13.21	18.50	0	2.36	0.00	0.84	0.00
10yr3d	NSLRWCD C37	BASE	60.76	13.13	18.50	0	2.54	0.00	0.89	0.00
10yr3d	NSLRWCD C37	BASE	61.00	13.05	18.50	0	2.65	0.00	0.94	0.00
10yr3d	NSLRWCD C37	BASE	61.25	12.98	18.50	0	2.75	0.00	1.00	0.00
10yr3d	NSLRWCD C37	BASE	61.51	12.90	18.50	0	2.84	0.00	1.06	0.00
10yr3d	NSLRWCD C37	BASE	61.76	12.82	18.50	0	2.92	0.00	1.12	0.00
10yr3d	NSLRWCD C37	BASE	62.01	12.74	18.50	0	2.99	0.00	1.18	0.00
10yr3d	NSLRWCD C37	BASE	62.26	12.66	18.50	0	3.06	0.00	1.24	0.00
10yr3d	NSLRWCD C37	BASE	62.51	12.58	18.50	0	3.13	0.00	1.31	0.00
10yr3d	NSLRWCD C37	BASE	62.76	12.50	18.50	0	3.19	0.00	1.37	0.00
10yr3d	NSLRWCD C37	BASE	63.01	12.42	18.50	0	3.25	0.00	1.44	0.00
10yr3d	NSLRWCD C37	BASE	63.26	12.34	18.50	0	3.31	0.00	1.51	0.00
10yr3d	NSLRWCD C37	BASE	63.51	12.27	18.50	0	3.36	0.00	1.57	0.00
10yr3d	NSLRWCD C37	BASE	63.76	12.19	18.50	0	3.42	0.00	1.64	0.00
10yr3d	NSLRWCD C37	BASE	64.01	12.11	18.50	0	3.47	0.00	1.72	0.00
10yr3d	NSLRWCD C37	BASE	64.26	12.04	18.50	0	3.52	0.00	1.79	0.00
10yr3d	NSLRWCD C37	BASE	64.51	11.97	18.50	0	3.56	0.00	1.86	0.00
10yr3d	NSLRWCD C37	BASE	64.76	11.90	18.50	0	3.60	0.00	1.93	0.00
10yr3d	NSLRWCD C37	BASE	65.01	11.84	18.50	0	3.64	0.00	2.01	0.00
10yr3d	NSLRWCD C37	BASE	65.26	11.77	18.50	0	3.65	0.00	2.08	0.00
10yr3d	NSLRWCD C37	BASE	65.51	11.70	18.50	0	3.67	0.00	2.16	0.00
10yr3d	NSLRWCD C37	BASE	65.76	11.63	18.50	0	3.68	0.00	2.24	0.00
10yr3d	NSLRWCD C37	BASE	66.01	11.56	18.50	0	3.69	0.00	2.31	0.00
10yr3d	NSLRWCD C37	BASE	66.26	11.50	18.50	0	3.70	0.00	2.39	0.00
10yr3d	NSLRWCD C37	BASE	66.51	11.43	18.50	0	3.71	0.00	2.47	0.00
10yr3d	NSLRWCD C37	BASE	66.76	11.36	18.50	0	3.72	0.00	2.54	0.00
10yr3d	NSLRWCD C37	BASE	67.01	11.29	18.50	0	3.73	0.00	2.62	0.00
10yr3d	NSLRWCD C37	BASE	67.26	11.22	18.50	0	3.74	0.00	2.70	0.00
10yr3d	NSLRWCD C37	BASE	67.51	11.15	18.50	0	3.75	0.00	2.77	0.00
10yr3d	NSLRWCD C37	BASE	67.76	11.09	18.50	0	3.76	0.00	2.85	0.00
10yr3d	NSLRWCD C37	BASE	68.01	11.02	18.50	0	3.77	0.00	2.93	0.00
10yr3d	NSLRWCD C37	BASE	68.26	11.00	18.50	0	3.77	0.00	3.01	0.00
10yr3d	NSLRWCD C37	BASE	68.51	10.98	18.50	0	3.77	0.00	3.09	0.00
10yr3d	NSLRWCD C37	BASE	68.76	10.96	18.50	0	3.78	0.00	3.16	0.00
10yr3d	NSLRWCD C37	BASE	69.01	10.94	18.50	0	3.78	0.00	3.24	0.00
10yr3d	NSLRWCD C37	BASE	69.26	10.92	18.50	0	3.78	0.00	3.32	0.00
10yr3d	NSLRWCD C37	BASE	69.51	10.90	18.50	0	3.78	0.00	3.40	0.00
10yr3d	NSLRWCD C37	BASE	69.76	10.88	18.50	0	3.78	0.00	3.48	0.00
10yr3d	NSLRWCD C37	BASE	70.01	10.86	18.50	0	3.78	0.00	3.55	0.00
10yr3d	NSLRWCD C37	BASE	70.26	10.84	18.50	0	3.79	0.00	3.63	0.00
10yr3d	NSLRWCD C37	BASE	70.51	10.82	18.50	0	3.79	0.00	3.71	0.00
10yr3d	NSLRWCD C37	BASE	70.76	10.80	18.50	0	3.79	0.00	3.79	0.00
10yr3d	NSLRWCD C37	BASE	71.01	10.78	18.50	0	3.79	0.00	3.87	0.00
10yr3d	NSLRWCD C37	BASE	71.26	10.76	18.50	0	3.79	0.00	3.94	0.00
10yr3d	NSLRWCD C37	BASE	71.51	10.74	18.50	0	3.79	0.00	4.02	0.00
10yr3d	NSLRWCD C37	BASE	71.76	10.72	18.50	0	3.79	0.00	4.10	0.00
10yr3d	NSLRWCD C37	BASE	72.01	10.70	18.50	0	3.79	0.00	4.18	0.00
10yr3d	NSLRWCD C37	BASE	72.26	10.70	18.50	0	3.79	0.00	4.26	0.00
10yr3d	NSLRWCD C37	BASE	72.51	10.69	18.50	0	3.79	0.00	4.34	0.00
10yr3d	NSLRWCD C37	BASE	72.76	10.69	18.50	0	3.78	0.00	4.41	0.00
10yr3d	NSLRWCD C37	BASE	73.01	10.69	18.50	0	3.78	0.00	4.49	0.00
10yr3d	NSLRWCD C37	BASE	73.26	10.69	18.50	0	3.77	0.00	4.57	0.00
10yr3d	NSLRWCD C37	BASE	73.51	10.68	18.50	0	3.77	0.00	4.65	0.00
10yr3d	NSLRWCD C37	BASE	73.76	10.68	18.50	0	3.76	0.00	4.73	0.00
10yr3d	NSLRWCD C37	BASE	74.01	10.68	18.50	0	3.76	0.00	4.80	0.00
10yr3d	NSLRWCD C37	BASE	74.26	10.68	18.50	0	3.75	0.00	4.88	0.00
10yr3d	NSLRWCD C37	BASE	74.51	10.67	18.50	0	3.75	0.00	4.96	0.00
10yr3d	NSLRWCD C37	BASE	74.76	10.67	18.50	0	3.74	0.00	5.04	0.00

Max Discharge Volume in 24-hrs = 7.27 acft
Less than Allowable 2" over 45 ac = 7.65 acft

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	75.01	10.67	18.50	0	3.74	0.00	5.11	0.00
10yr3d	NSLRWCD C37	BASE	75.26	10.67	18.50	0	3.73	0.00	5.19	0.00
10yr3d	NSLRWCD C37	BASE	75.51	10.66	18.50	0	3.73	0.00	5.27	0.00
10yr3d	NSLRWCD C37	BASE	75.76	10.66	18.50	0	3.72	0.00	5.35	0.00
10yr3d	NSLRWCD C37	BASE	76.01	10.66	18.50	0	3.72	0.00	5.42	0.00
10yr3d	NSLRWCD C37	BASE	76.26	10.66	18.50	0	3.71	0.00	5.50	0.00
10yr3d	NSLRWCD C37	BASE	76.51	10.65	18.50	0	3.71	0.00	5.58	0.00
10yr3d	NSLRWCD C37	BASE	76.76	10.65	18.50	0	3.70	0.00	5.65	0.00
10yr3d	NSLRWCD C37	BASE	77.01	10.65	18.50	0	3.70	0.00	5.73	0.00
10yr3d	NSLRWCD C37	BASE	77.26	10.65	18.50	0	3.69	0.00	5.81	0.00
10yr3d	NSLRWCD C37	BASE	77.51	10.64	18.50	0	3.69	0.00	5.88	0.00
10yr3d	NSLRWCD C37	BASE	77.76	10.64	18.50	0	3.68	0.00	5.96	0.00
10yr3d	NSLRWCD C37	BASE	78.01	10.64	18.50	0	3.68	0.00	6.03	0.00
10yr3d	NSLRWCD C37	BASE	78.26	10.64	18.50	0	3.67	0.00	6.11	0.00
10yr3d	NSLRWCD C37	BASE	78.51	10.63	18.50	0	3.67	0.00	6.19	0.00
10yr3d	NSLRWCD C37	BASE	78.76	10.63	18.50	0	3.66	0.00	6.26	0.00
10yr3d	NSLRWCD C37	BASE	79.01	10.63	18.50	0	3.66	0.00	6.34	0.00
10yr3d	NSLRWCD C37	BASE	79.26	10.63	18.50	0	3.65	0.00	6.41	0.00
10yr3d	NSLRWCD C37	BASE	79.51	10.62	18.50	0	3.65	0.00	6.49	0.00
10yr3d	NSLRWCD C37	BASE	79.76	10.62	18.50	0	3.64	0.00	6.56	0.00
10yr3d	NSLRWCD C37	BASE	80.01	10.62	18.50	0	3.64	0.00	6.64	0.00
10yr3d	NSLRWCD C37	BASE	80.26	10.62	18.50	0	3.63	0.00	6.71	0.00
10yr3d	NSLRWCD C37	BASE	80.51	10.61	18.50	0	3.62	0.00	6.79	0.00
10yr3d	NSLRWCD C37	BASE	80.76	10.61	18.50	0	3.62	0.00	6.86	0.00
10yr3d	NSLRWCD C37	BASE	81.01	10.61	18.50	0	3.61	0.00	6.94	0.00
10yr3d	NSLRWCD C37	BASE	81.26	10.61	18.50	0	3.61	0.00	7.01	0.00
10yr3d	NSLRWCD C37	BASE	81.51	10.60	18.50	0	3.60	0.00	7.09	0.00
10yr3d	NSLRWCD C37	BASE	81.76	10.60	18.50	0	3.60	0.00	7.16	0.00
10yr3d	NSLRWCD C37	BASE	82.01	10.60	18.50	0	3.59	0.00	7.24	0.00
10yr3d	NSLRWCD C37	BASE	82.26	10.60	18.50	0	3.59	0.00	7.31	0.00
10yr3d	NSLRWCD C37	BASE	82.51	10.59	18.50	0	3.58	0.00	7.38	0.00
10yr3d	NSLRWCD C37	BASE	82.76	10.59	18.50	0	3.58	0.00	7.46	0.00
10yr3d	NSLRWCD C37	BASE	83.01	10.59	18.50	0	3.57	0.00	7.53	0.00
10yr3d	NSLRWCD C37	BASE	83.26	10.59	18.50	0	3.56	0.00	7.61	0.00
10yr3d	NSLRWCD C37	BASE	83.51	10.58	18.50	0	3.56	0.00	7.68	0.00
10yr3d	NSLRWCD C37	BASE	83.76	10.58	18.50	0	3.55	0.00	7.75	0.00
10yr3d	NSLRWCD C37	BASE	84.01	10.58	18.50	0	3.55	0.00	7.83	0.00
10yr3d	NSLRWCD C37	BASE	84.26	10.58	18.50	0	3.54	0.00	7.90	0.00
10yr3d	NSLRWCD C37	BASE	84.51	10.57	18.50	0	3.54	0.00	7.97	0.00
10yr3d	NSLRWCD C37	BASE	84.76	10.57	18.50	0	3.53	0.00	8.05	0.00
10yr3d	NSLRWCD C37	BASE	85.01	10.57	18.50	0	3.52	0.00	8.12	0.00
10yr3d	NSLRWCD C37	BASE	85.26	10.57	18.50	0	3.52	0.00	8.19	0.00
10yr3d	NSLRWCD C37	BASE	85.51	10.56	18.50	0	3.51	0.00	8.26	0.00
10yr3d	NSLRWCD C37	BASE	85.76	10.56	18.50	0	3.51	0.00	8.34	0.00
10yr3d	NSLRWCD C37	BASE	86.01	10.56	18.50	0	3.50	0.00	8.41	0.00
10yr3d	NSLRWCD C37	BASE	86.26	10.56	18.50	0	3.50	0.00	8.48	0.00
10yr3d	NSLRWCD C37	BASE	86.51	10.55	18.50	0	3.49	0.00	8.55	0.00
10yr3d	NSLRWCD C37	BASE	86.76	10.55	18.50	0	3.48	0.00	8.62	0.00
10yr3d	NSLRWCD C37	BASE	87.01	10.55	18.50	0	3.48	0.00	8.70	0.00
10yr3d	NSLRWCD C37	BASE	87.26	10.55	18.50	0	3.47	0.00	8.77	0.00
10yr3d	NSLRWCD C37	BASE	87.51	10.54	18.50	0	3.47	0.00	8.84	0.00
10yr3d	NSLRWCD C37	BASE	87.76	10.54	18.50	0	3.46	0.00	8.91	0.00
10yr3d	NSLRWCD C37	BASE	88.01	10.54	18.50	0	3.46	0.00	8.98	0.00
10yr3d	NSLRWCD C37	BASE	88.26	10.54	18.50	0	3.45	0.00	9.05	0.00
10yr3d	NSLRWCD C37	BASE	88.51	10.53	18.50	0	3.44	0.00	9.13	0.00
10yr3d	NSLRWCD C37	BASE	88.76	10.53	18.50	0	3.44	0.00	9.20	0.00
10yr3d	NSLRWCD C37	BASE	89.01	10.53	18.50	0	3.43	0.00	9.27	0.00
10yr3d	NSLRWCD C37	BASE	89.26	10.53	18.50	0	3.43	0.00	9.34	0.00
10yr3d	NSLRWCD C37	BASE	89.51	10.52	18.50	0	3.42	0.00	9.41	0.00
10yr3d	NSLRWCD C37	BASE	89.76	10.52	18.50	0	3.41	0.00	9.48	0.00

Max Discharge Volume in 24-hrs = 7.27 acft
Less than Allowable 2" over 45 ac = 7.65 acft

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	90.01	10.52	18.50	0	3.41	0.00	9.55	0.00
10yr3d	NSLRWCD C37	BASE	90.26	10.51	18.50	0	3.40	0.00	9.62	0.00
10yr3d	NSLRWCD C37	BASE	90.51	10.51	18.50	0	3.40	0.00	9.69	0.00
10yr3d	NSLRWCD C37	BASE	90.76	10.51	18.50	0	3.39	0.00	9.76	0.00
10yr3d	NSLRWCD C37	BASE	91.01	10.51	18.50	0	3.38	0.00	9.83	0.00
10yr3d	NSLRWCD C37	BASE	91.26	10.50	18.50	0	3.38	0.00	9.90	0.00
10yr3d	NSLRWCD C37	BASE	91.51	10.50	18.50	0	3.37	0.00	9.97	0.00
10yr3d	NSLRWCD C37	BASE	91.76	10.50	18.50	0	3.37	0.00	10.04	0.00
10yr3d	NSLRWCD C37	BASE	92.01	10.50	18.50	0	3.36	0.00	10.11	0.00
10yr3d	NSLRWCD C37	BASE	92.26	10.49	18.50	0	3.35	0.00	10.18	0.00
10yr3d	NSLRWCD C37	BASE	92.51	10.49	18.50	0	3.35	0.00	10.25	0.00
10yr3d	NSLRWCD C37	BASE	92.76	10.49	18.50	0	3.34	0.00	10.32	0.00
10yr3d	NSLRWCD C37	BASE	93.01	10.49	18.50	0	3.34	0.00	10.39	0.00
10yr3d	NSLRWCD C37	BASE	93.26	10.48	18.50	0	3.33	0.00	10.46	0.00
10yr3d	NSLRWCD C37	BASE	93.51	10.48	18.50	0	3.32	0.00	10.52	0.00
10yr3d	NSLRWCD C37	BASE	93.76	10.48	18.50	0	3.32	0.00	10.59	0.00
10yr3d	NSLRWCD C37	BASE	94.01	10.48	18.50	0	3.31	0.00	10.66	0.00
10yr3d	NSLRWCD C37	BASE	94.26	10.47	18.50	0	3.31	0.00	10.73	0.00
10yr3d	NSLRWCD C37	BASE	94.51	10.47	18.50	0	3.30	0.00	10.80	0.00
10yr3d	NSLRWCD C37	BASE	94.76	10.47	18.50	0	3.29	0.00	10.87	0.00
10yr3d	NSLRWCD C37	BASE	95.01	10.47	18.50	0	3.29	0.00	10.93	0.00
10yr3d	NSLRWCD C37	BASE	95.26	10.46	18.50	0	3.28	0.00	11.00	0.00
10yr3d	NSLRWCD C37	BASE	95.51	10.46	18.50	0	3.28	0.00	11.07	0.00
10yr3d	NSLRWCD C37	BASE	95.76	10.46	18.50	0	3.27	0.00	11.14	0.00
10yr3d	NSLRWCD C37	BASE	96.01	10.46	18.50	0	3.26	0.00	11.21	0.00
10yr3d	NSLRWCD C37	BASE	96.26	10.45	18.50	0	3.26	0.00	11.27	0.00
10yr3d	NSLRWCD C37	BASE	96.51	10.45	18.50	0	3.25	0.00	11.34	0.00
10yr3d	NSLRWCD C37	BASE	96.76	10.45	18.50	0	3.25	0.00	11.41	0.00
10yr3d	NSLRWCD C37	BASE	97.01	10.45	18.50	0	3.24	0.00	11.47	0.00
10yr3d	NSLRWCD C37	BASE	97.26	10.44	18.50	0	3.23	0.00	11.54	0.00
10yr3d	NSLRWCD C37	BASE	97.51	10.44	18.50	0	3.23	0.00	11.61	0.00
10yr3d	NSLRWCD C37	BASE	97.76	10.44	18.50	0	3.22	0.00	11.67	0.00
10yr3d	NSLRWCD C37	BASE	98.01	10.44	18.50	0	3.22	0.00	11.74	0.00
10yr3d	NSLRWCD C37	BASE	98.26	10.43	18.50	0	3.21	0.00	11.81	0.00
10yr3d	NSLRWCD C37	BASE	98.51	10.43	18.50	0	3.20	0.00	11.87	0.00
10yr3d	NSLRWCD C37	BASE	98.76	10.43	18.50	0	3.20	0.00	11.94	0.00
10yr3d	NSLRWCD C37	BASE	99.01	10.43	18.50	0	3.19	0.00	12.01	0.00
10yr3d	NSLRWCD C37	BASE	99.26	10.42	18.50	0	3.19	0.00	12.07	0.00
10yr3d	NSLRWCD C37	BASE	99.51	10.42	18.50	0	3.18	0.00	12.14	0.00
10yr3d	NSLRWCD C37	BASE	99.76	10.42	18.50	0	3.17	0.00	12.20	0.00
10yr3d	NSLRWCD C37	BASE	100.01	10.42	18.50	0	3.17	0.00	12.27	0.00
10yr3d	NSLRWCD C37	BASE	100.26	10.41	18.50	0	3.16	0.00	12.33	0.00
10yr3d	NSLRWCD C37	BASE	100.51	10.41	18.50	0	3.15	0.00	12.40	0.00
10yr3d	NSLRWCD C37	BASE	100.76	10.41	18.50	0	3.15	0.00	12.46	0.00
10yr3d	NSLRWCD C37	BASE	101.01	10.41	18.50	0	3.14	0.00	12.53	0.00
10yr3d	NSLRWCD C37	BASE	101.26	10.40	18.50	0	3.14	0.00	12.59	0.00
10yr3d	NSLRWCD C37	BASE	101.51	10.40	18.50	0	3.13	0.00	12.66	0.00
10yr3d	NSLRWCD C37	BASE	101.76	10.40	18.50	0	3.12	0.00	12.72	0.00
10yr3d	NSLRWCD C37	BASE	102.01	10.40	18.50	0	3.12	0.00	12.79	0.00
10yr3d	NSLRWCD C37	BASE	102.26	10.39	18.50	0	3.11	0.00	12.85	0.00
10yr3d	NSLRWCD C37	BASE	102.51	10.39	18.50	0	3.11	0.00	12.92	0.00
10yr3d	NSLRWCD C37	BASE	102.76	10.39	18.50	0	3.10	0.00	12.98	0.00
10yr3d	NSLRWCD C37	BASE	103.01	10.39	18.50	0	3.09	0.00	13.04	0.00
10yr3d	NSLRWCD C37	BASE	103.26	10.38	18.50	0	3.09	0.00	13.11	0.00
10yr3d	NSLRWCD C37	BASE	103.51	10.38	18.50	0	3.08	0.00	13.17	0.00
10yr3d	NSLRWCD C37	BASE	103.76	10.38	18.50	0	3.08	0.00	13.24	0.00
10yr3d	NSLRWCD C37	BASE	104.01	10.38	18.50	0	3.07	0.00	13.30	0.00
10yr3d	NSLRWCD C37	BASE	104.26	10.37	18.50	0	3.06	0.00	13.36	0.00
10yr3d	NSLRWCD C37	BASE	104.51	10.37	18.50	0	3.06	0.00	13.43	0.00
10yr3d	NSLRWCD C37	BASE	104.76	10.37	18.50	0	3.05	0.00	13.49	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	105.01	10.37	18.50	0	3.04	0.00	13.55	0.00
10yr3d	NSLRWCD C37	BASE	105.26	10.36	18.50	0	3.04	0.00	13.61	0.00
10yr3d	NSLRWCD C37	BASE	105.51	10.36	18.50	0	3.03	0.00	13.68	0.00
10yr3d	NSLRWCD C37	BASE	105.76	10.36	18.50	0	3.03	0.00	13.74	0.00
10yr3d	NSLRWCD C37	BASE	106.01	10.36	18.50	0	3.02	0.00	13.80	0.00
10yr3d	NSLRWCD C37	BASE	106.26	10.35	18.50	0	3.01	0.00	13.86	0.00
10yr3d	NSLRWCD C37	BASE	106.51	10.35	18.50	0	3.01	0.00	13.93	0.00
10yr3d	NSLRWCD C37	BASE	106.76	10.35	18.50	0	3.00	0.00	13.99	0.00
10yr3d	NSLRWCD C37	BASE	107.01	10.35	18.50	0	2.99	0.00	14.05	0.00
10yr3d	NSLRWCD C37	BASE	107.26	10.34	18.50	0	2.99	0.00	14.11	0.00
10yr3d	NSLRWCD C37	BASE	107.51	10.34	18.50	0	2.98	0.00	14.17	0.00
10yr3d	NSLRWCD C37	BASE	107.76	10.34	18.50	0	2.98	0.00	14.24	0.00
10yr3d	NSLRWCD C37	BASE	108.01	10.33	18.50	0	2.97	0.00	14.30	0.00
10yr3d	NSLRWCD C37	BASE	108.26	10.33	18.50	0	2.96	0.00	14.36	0.00
10yr3d	NSLRWCD C37	BASE	108.51	10.33	18.50	0	2.96	0.00	14.42	0.00
10yr3d	NSLRWCD C37	BASE	108.76	10.33	18.50	0	2.95	0.00	14.48	0.00
10yr3d	NSLRWCD C37	BASE	109.01	10.32	18.50	0	2.94	0.00	14.54	0.00
10yr3d	NSLRWCD C37	BASE	109.26	10.32	18.50	0	2.94	0.00	14.60	0.00
10yr3d	NSLRWCD C37	BASE	109.51	10.32	18.50	0	2.93	0.00	14.66	0.00
10yr3d	NSLRWCD C37	BASE	109.76	10.32	18.50	0	2.93	0.00	14.72	0.00
10yr3d	NSLRWCD C37	BASE	110.01	10.31	18.50	0	2.92	0.00	14.78	0.00
10yr3d	NSLRWCD C37	BASE	110.26	10.31	18.50	0	2.91	0.00	14.84	0.00
10yr3d	NSLRWCD C37	BASE	110.51	10.31	18.50	0	2.91	0.00	14.90	0.00
10yr3d	NSLRWCD C37	BASE	110.76	10.31	18.50	0	2.90	0.00	14.96	0.00
10yr3d	NSLRWCD C37	BASE	111.01	10.30	18.50	0	2.89	0.00	15.02	0.00
10yr3d	NSLRWCD C37	BASE	111.26	10.30	18.50	0	2.89	0.00	15.08	0.00
10yr3d	NSLRWCD C37	BASE	111.51	10.30	18.50	0	2.88	0.00	15.14	0.00
10yr3d	NSLRWCD C37	BASE	111.76	10.30	18.50	0	2.88	0.00	15.20	0.00
10yr3d	NSLRWCD C37	BASE	112.01	10.29	18.50	0	2.87	0.00	15.26	0.00
10yr3d	NSLRWCD C37	BASE	112.26	10.29	18.50	0	2.86	0.00	15.32	0.00
10yr3d	NSLRWCD C37	BASE	112.51	10.29	18.50	0	2.86	0.00	15.38	0.00
10yr3d	NSLRWCD C37	BASE	112.76	10.29	18.50	0	2.85	0.00	15.44	0.00
10yr3d	NSLRWCD C37	BASE	113.01	10.28	18.50	0	2.84	0.00	15.50	0.00
10yr3d	NSLRWCD C37	BASE	113.26	10.28	18.50	0	2.84	0.00	15.56	0.00
10yr3d	NSLRWCD C37	BASE	113.51	10.28	18.50	0	2.83	0.00	15.62	0.00
10yr3d	NSLRWCD C37	BASE	113.76	10.28	18.50	0	2.83	0.00	15.67	0.00
10yr3d	NSLRWCD C37	BASE	114.01	10.27	18.50	0	2.82	0.00	15.73	0.00
10yr3d	NSLRWCD C37	BASE	114.26	10.27	18.50	0	2.81	0.00	15.79	0.00
10yr3d	NSLRWCD C37	BASE	114.51	10.27	18.50	0	2.81	0.00	15.85	0.00
10yr3d	NSLRWCD C37	BASE	114.76	10.27	18.50	0	2.80	0.00	15.91	0.00
10yr3d	NSLRWCD C37	BASE	115.01	10.26	18.50	0	2.79	0.00	15.96	0.00
10yr3d	NSLRWCD C37	BASE	115.26	10.26	18.50	0	2.79	0.00	16.02	0.00
10yr3d	NSLRWCD C37	BASE	115.51	10.26	18.50	0	2.78	0.00	16.08	0.00
10yr3d	NSLRWCD C37	BASE	115.76	10.26	18.50	0	2.78	0.00	16.14	0.00
10yr3d	NSLRWCD C37	BASE	116.01	10.25	18.50	0	2.77	0.00	16.19	0.00
10yr3d	NSLRWCD C37	BASE	116.26	10.25	18.50	0	2.76	0.00	16.25	0.00
10yr3d	NSLRWCD C37	BASE	116.51	10.25	18.50	0	2.76	0.00	16.31	0.00
10yr3d	NSLRWCD C37	BASE	116.76	10.25	18.50	0	2.75	0.00	16.37	0.00
10yr3d	NSLRWCD C37	BASE	117.01	10.24	18.50	0	2.74	0.00	16.42	0.00
10yr3d	NSLRWCD C37	BASE	117.26	10.24	18.50	0	2.74	0.00	16.48	0.00
10yr3d	NSLRWCD C37	BASE	117.51	10.24	18.50	0	2.73	0.00	16.54	0.00
10yr3d	NSLRWCD C37	BASE	117.76	10.24	18.50	0	2.72	0.00	16.59	0.00
10yr3d	NSLRWCD C37	BASE	118.01	10.23	18.50	0	2.72	0.00	16.65	0.00
10yr3d	NSLRWCD C37	BASE	118.26	10.23	18.50	0	2.71	0.00	16.70	0.00
10yr3d	NSLRWCD C37	BASE	118.51	10.23	18.50	0	2.71	0.00	16.76	0.00
10yr3d	NSLRWCD C37	BASE	118.76	10.23	18.50	0	2.70	0.00	16.82	0.00
10yr3d	NSLRWCD C37	BASE	119.01	10.22	18.50	0	2.69	0.00	16.87	0.00
10yr3d	NSLRWCD C37	BASE	119.26	10.22	18.50	0	2.69	0.00	16.93	0.00
10yr3d	NSLRWCD C37	BASE	119.51	10.22	18.50	0	2.68	0.00	16.98	0.00
10yr3d	NSLRWCD C37	BASE	119.76	10.22	18.50	0	2.67	0.00	17.04	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	120.01	10.21	18.50	0	2.67	0.00	17.09	0.00
10yr3d	NSLRWCD C37	BASE	120.26	10.21	18.50	0	2.66	0.00	17.15	0.00
10yr3d	NSLRWCD C37	BASE	120.51	10.21	18.50	0	2.66	0.00	17.20	0.00
10yr3d	NSLRWCD C37	BASE	120.76	10.21	18.50	0	2.65	0.00	17.26	0.00
10yr3d	NSLRWCD C37	BASE	121.01	10.20	18.50	0	2.64	0.00	17.31	0.00
10yr3d	NSLRWCD C37	BASE	121.26	10.20	18.50	0	2.64	0.00	17.37	0.00
10yr3d	NSLRWCD C37	BASE	121.51	10.20	18.50	0	2.63	0.00	17.42	0.00
10yr3d	NSLRWCD C37	BASE	121.76	10.20	18.50	0	2.62	0.00	17.48	0.00
10yr3d	NSLRWCD C37	BASE	122.01	10.19	18.50	0	2.62	0.00	17.53	0.00
10yr3d	NSLRWCD C37	BASE	122.26	10.19	18.50	0	2.61	0.00	17.58	0.00
10yr3d	NSLRWCD C37	BASE	122.51	10.19	18.50	0	2.61	0.00	17.64	0.00
10yr3d	NSLRWCD C37	BASE	122.76	10.19	18.50	0	2.60	0.00	17.69	0.00
10yr3d	NSLRWCD C37	BASE	123.01	10.18	18.50	0	2.59	0.00	17.75	0.00
10yr3d	NSLRWCD C37	BASE	123.26	10.18	18.50	0	2.59	0.00	17.80	0.00
10yr3d	NSLRWCD C37	BASE	123.51	10.18	18.50	0	2.58	0.00	17.85	0.00
10yr3d	NSLRWCD C37	BASE	123.76	10.18	18.50	0	2.57	0.00	17.91	0.00
10yr3d	NSLRWCD C37	BASE	124.01	10.17	18.50	0	2.57	0.00	17.96	0.00
10yr3d	NSLRWCD C37	BASE	124.26	10.17	18.50	0	2.56	0.00	18.01	0.00
10yr3d	NSLRWCD C37	BASE	124.51	10.17	18.50	0	2.56	0.00	18.06	0.00
10yr3d	NSLRWCD C37	BASE	124.76	10.17	18.50	0	2.55	0.00	18.12	0.00
10yr3d	NSLRWCD C37	BASE	125.01	10.16	18.50	0	2.54	0.00	18.17	0.00
10yr3d	NSLRWCD C37	BASE	125.26	10.16	18.50	0	2.54	0.00	18.22	0.00
10yr3d	NSLRWCD C37	BASE	125.51	10.16	18.50	0	2.53	0.00	18.27	0.00
10yr3d	NSLRWCD C37	BASE	125.76	10.15	18.50	0	2.52	0.00	18.33	0.00
10yr3d	NSLRWCD C37	BASE	126.01	10.15	18.50	0	2.52	0.00	18.38	0.00
10yr3d	NSLRWCD C37	BASE	126.26	10.15	18.50	0	2.51	0.00	18.43	0.00
10yr3d	NSLRWCD C37	BASE	126.51	10.15	18.50	0	2.50	0.00	18.48	0.00
10yr3d	NSLRWCD C37	BASE	126.76	10.14	18.50	0	2.50	0.00	18.53	0.00
10yr3d	NSLRWCD C37	BASE	127.01	10.14	18.50	0	2.49	0.00	18.59	0.00
10yr3d	NSLRWCD C37	BASE	127.26	10.14	18.50	0	2.48	0.00	18.64	0.00
10yr3d	NSLRWCD C37	BASE	127.51	10.14	18.50	0	2.48	0.00	18.69	0.00
10yr3d	NSLRWCD C37	BASE	127.76	10.13	18.50	0	2.47	0.00	18.74	0.00
10yr3d	NSLRWCD C37	BASE	128.01	10.13	18.50	0	2.46	0.00	18.79	0.00
10yr3d	NSLRWCD C37	BASE	128.26	10.13	18.50	0	2.46	0.00	18.84	0.00
10yr3d	NSLRWCD C37	BASE	128.51	10.13	18.50	0	2.45	0.00	18.89	0.00
10yr3d	NSLRWCD C37	BASE	128.76	10.12	18.50	0	2.45	0.00	18.94	0.00
10yr3d	NSLRWCD C37	BASE	129.01	10.12	18.50	0	2.44	0.00	18.99	0.00
10yr3d	NSLRWCD C37	BASE	129.26	10.12	18.50	0	2.43	0.00	19.04	0.00
10yr3d	NSLRWCD C37	BASE	129.51	10.12	18.50	0	2.43	0.00	19.09	0.00
10yr3d	NSLRWCD C37	BASE	129.76	10.11	18.50	0	2.42	0.00	19.14	0.00
10yr3d	NSLRWCD C37	BASE	130.01	10.11	18.50	0	2.41	0.00	19.19	0.00
10yr3d	NSLRWCD C37	BASE	130.26	10.11	18.50	0	2.41	0.00	19.24	0.00
10yr3d	NSLRWCD C37	BASE	130.51	10.11	18.50	0	2.40	0.00	19.29	0.00
10yr3d	NSLRWCD C37	BASE	130.76	10.10	18.50	0	2.39	0.00	19.34	0.00
10yr3d	NSLRWCD C37	BASE	131.01	10.10	18.50	0	2.39	0.00	19.39	0.00
10yr3d	NSLRWCD C37	BASE	131.26	10.10	18.50	0	2.38	0.00	19.44	0.00
10yr3d	NSLRWCD C37	BASE	131.51	10.10	18.50	0	2.37	0.00	19.49	0.00
10yr3d	NSLRWCD C37	BASE	131.76	10.09	18.50	0	2.37	0.00	19.54	0.00
10yr3d	NSLRWCD C37	BASE	132.01	10.09	18.50	0	2.36	0.00	19.59	0.00
10yr3d	NSLRWCD C37	BASE	132.26	10.09	18.50	0	2.36	0.00	19.64	0.00
10yr3d	NSLRWCD C37	BASE	132.51	10.09	18.50	0	2.35	0.00	19.69	0.00
10yr3d	NSLRWCD C37	BASE	132.76	10.08	18.50	0	2.34	0.00	19.73	0.00
10yr3d	NSLRWCD C37	BASE	133.01	10.08	18.50	0	2.34	0.00	19.78	0.00
10yr3d	NSLRWCD C37	BASE	133.26	10.08	18.50	0	2.33	0.00	19.83	0.00
10yr3d	NSLRWCD C37	BASE	133.51	10.08	18.50	0	2.32	0.00	19.88	0.00
10yr3d	NSLRWCD C37	BASE	133.76	10.07	18.50	0	2.32	0.00	19.93	0.00
10yr3d	NSLRWCD C37	BASE	134.01	10.07	18.50	0	2.31	0.00	19.97	0.00
10yr3d	NSLRWCD C37	BASE	134.26	10.07	18.50	0	2.30	0.00	20.02	0.00
10yr3d	NSLRWCD C37	BASE	134.51	10.07	18.50	0	2.30	0.00	20.07	0.00
10yr3d	NSLRWCD C37	BASE	134.76	10.06	18.50	0	2.29	0.00	20.12	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	135.01	10.06	18.50	0	2.29	0.00	20.16	0.00
10yr3d	NSLRWCD C37	BASE	135.26	10.06	18.50	0	2.28	0.00	20.21	0.00
10yr3d	NSLRWCD C37	BASE	135.51	10.06	18.50	0	2.27	0.00	20.26	0.00
10yr3d	NSLRWCD C37	BASE	135.76	10.05	18.50	0	2.27	0.00	20.30	0.00
10yr3d	NSLRWCD C37	BASE	136.01	10.05	18.50	0	2.26	0.00	20.35	0.00
10yr3d	NSLRWCD C37	BASE	136.26	10.05	18.50	0	2.25	0.00	20.40	0.00
10yr3d	NSLRWCD C37	BASE	136.51	10.05	18.50	0	2.25	0.00	20.44	0.00
10yr3d	NSLRWCD C37	BASE	136.76	10.04	18.50	0	2.24	0.00	20.49	0.00
10yr3d	NSLRWCD C37	BASE	137.01	10.04	18.50	0	2.23	0.00	20.54	0.00
10yr3d	NSLRWCD C37	BASE	137.26	10.04	18.50	0	2.23	0.00	20.58	0.00
10yr3d	NSLRWCD C37	BASE	137.51	10.04	18.50	0	2.22	0.00	20.63	0.00
10yr3d	NSLRWCD C37	BASE	137.76	10.03	18.50	0	2.22	0.00	20.68	0.00
10yr3d	NSLRWCD C37	BASE	138.01	10.03	18.50	0	2.21	0.00	20.72	0.00
10yr3d	NSLRWCD C37	BASE	138.26	10.03	18.50	0	2.20	0.00	20.77	0.00
10yr3d	NSLRWCD C37	BASE	138.51	10.03	18.50	0	2.20	0.00	20.81	0.00
10yr3d	NSLRWCD C37	BASE	138.76	10.02	18.50	0	2.19	0.00	20.86	0.00
10yr3d	NSLRWCD C37	BASE	139.01	10.02	18.50	0	2.18	0.00	20.90	0.00
10yr3d	NSLRWCD C37	BASE	139.26	10.02	18.50	0	2.18	0.00	20.95	0.00
10yr3d	NSLRWCD C37	BASE	139.51	10.02	18.50	0	2.17	0.00	20.99	0.00
10yr3d	NSLRWCD C37	BASE	139.76	10.01	18.50	0	2.17	0.00	21.04	0.00
10yr3d	NSLRWCD C37	BASE	140.01	10.01	18.50	0	2.16	0.00	21.08	0.00
10yr3d	NSLRWCD C37	BASE	140.26	10.01	18.50	0	2.15	0.00	21.13	0.00
10yr3d	NSLRWCD C37	BASE	140.51	10.01	18.50	0	2.15	0.00	21.17	0.00
10yr3d	NSLRWCD C37	BASE	140.76	10.00	18.50	0	2.14	0.00	21.22	0.00
10yr3d	NSLRWCD C37	BASE	141.01	10.00	18.50	0	2.13	0.00	21.26	0.00
10yr3d	NSLRWCD C37	BASE	141.26	10.00	18.50	0	2.13	0.00	21.30	0.00
10yr3d	NSLRWCD C37	BASE	141.51	10.00	18.50	0	2.12	0.00	21.35	0.00
10yr3d	NSLRWCD C37	BASE	141.76	9.99	18.50	0	2.12	0.00	21.39	0.00
10yr3d	NSLRWCD C37	BASE	142.01	9.99	18.50	0	2.11	0.00	21.43	0.00
10yr3d	NSLRWCD C37	BASE	142.26	9.99	18.50	0	2.10	0.00	21.48	0.00
10yr3d	NSLRWCD C37	BASE	142.51	9.99	18.50	0	2.10	0.00	21.52	0.00
10yr3d	NSLRWCD C37	BASE	142.76	9.98	18.50	0	2.09	0.00	21.57	0.00
10yr3d	NSLRWCD C37	BASE	143.01	9.98	18.50	0	2.09	0.00	21.61	0.00
10yr3d	NSLRWCD C37	BASE	143.26	9.98	18.50	0	2.08	0.00	21.65	0.00
10yr3d	NSLRWCD C37	BASE	143.51	9.98	18.50	0	2.07	0.00	21.69	0.00
10yr3d	NSLRWCD C37	BASE	143.76	9.97	18.50	0	2.07	0.00	21.74	0.00
10yr3d	NSLRWCD C37	BASE	144.01	9.97	18.50	0	2.06	0.00	21.78	0.00
10yr3d	NSLRWCD C37	BASE	144.26	9.97	18.50	0	2.05	0.00	21.82	0.00
10yr3d	NSLRWCD C37	BASE	144.51	9.96	18.50	0	2.05	0.00	21.86	0.00
10yr3d	NSLRWCD C37	BASE	144.76	9.96	18.50	0	2.04	0.00	21.91	0.00
10yr3d	NSLRWCD C37	BASE	145.01	9.96	18.50	0	2.04	0.00	21.95	0.00
10yr3d	NSLRWCD C37	BASE	145.26	9.96	18.50	0	2.03	0.00	21.99	0.00
10yr3d	NSLRWCD C37	BASE	145.51	9.95	18.50	0	2.02	0.00	22.03	0.00
10yr3d	NSLRWCD C37	BASE	145.76	9.95	18.50	0	2.02	0.00	22.07	0.00
10yr3d	NSLRWCD C37	BASE	146.01	9.95	18.50	0	2.01	0.00	22.12	0.00
10yr3d	NSLRWCD C37	BASE	146.26	9.95	18.50	0	2.00	0.00	22.16	0.00
10yr3d	NSLRWCD C37	BASE	146.51	9.94	18.50	0	2.00	0.00	22.20	0.00
10yr3d	NSLRWCD C37	BASE	146.76	9.94	18.50	0	1.99	0.00	22.24	0.00
10yr3d	NSLRWCD C37	BASE	147.01	9.94	18.50	0	1.99	0.00	22.28	0.00
10yr3d	NSLRWCD C37	BASE	147.26	9.94	18.50	0	1.98	0.00	22.32	0.00
10yr3d	NSLRWCD C37	BASE	147.51	9.93	18.50	0	1.97	0.00	22.36	0.00
10yr3d	NSLRWCD C37	BASE	147.76	9.93	18.50	0	1.97	0.00	22.40	0.00
10yr3d	NSLRWCD C37	BASE	148.01	9.93	18.50	0	1.96	0.00	22.44	0.00
10yr3d	NSLRWCD C37	BASE	148.26	9.93	18.50	0	1.96	0.00	22.48	0.00
10yr3d	NSLRWCD C37	BASE	148.51	9.92	18.50	0	1.95	0.00	22.53	0.00
10yr3d	NSLRWCD C37	BASE	148.76	9.92	18.50	0	1.94	0.00	22.57	0.00
10yr3d	NSLRWCD C37	BASE	149.01	9.92	18.50	0	1.94	0.00	22.61	0.00
10yr3d	NSLRWCD C37	BASE	149.26	9.92	18.50	0	1.93	0.00	22.65	0.00
10yr3d	NSLRWCD C37	BASE	149.51	9.91	18.50	0	1.92	0.00	22.69	0.00
10yr3d	NSLRWCD C37	BASE	149.76	9.91	18.50	0	1.92	0.00	22.72	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	150.01	9.91	18.50	0	1.91	0.00	22.76	0.00
10yr3d	NSLRWCD C37	BASE	150.26	9.91	18.50	0	1.91	0.00	22.80	0.00
10yr3d	NSLRWCD C37	BASE	150.51	9.90	18.50	0	1.90	0.00	22.84	0.00
10yr3d	NSLRWCD C37	BASE	150.76	9.90	18.50	0	1.89	0.00	22.88	0.00
10yr3d	NSLRWCD C37	BASE	151.01	9.90	18.50	0	1.89	0.00	22.92	0.00
10yr3d	NSLRWCD C37	BASE	151.26	9.90	18.50	0	1.88	0.00	22.96	0.00
10yr3d	NSLRWCD C37	BASE	151.51	9.89	18.50	0	1.88	0.00	23.00	0.00
10yr3d	NSLRWCD C37	BASE	151.76	9.89	18.50	0	1.87	0.00	23.04	0.00
10yr3d	NSLRWCD C37	BASE	152.01	9.89	18.50	0	1.86	0.00	23.08	0.00
10yr3d	NSLRWCD C37	BASE	152.26	9.89	18.50	0	1.86	0.00	23.11	0.00
10yr3d	NSLRWCD C37	BASE	152.51	9.88	18.50	0	1.85	0.00	23.15	0.00
10yr3d	NSLRWCD C37	BASE	152.76	9.88	18.50	0	1.85	0.00	23.19	0.00
10yr3d	NSLRWCD C37	BASE	153.01	9.88	18.50	0	1.84	0.00	23.23	0.00
10yr3d	NSLRWCD C37	BASE	153.26	9.88	18.50	0	1.83	0.00	23.27	0.00
10yr3d	NSLRWCD C37	BASE	153.51	9.87	18.50	0	1.83	0.00	23.31	0.00
10yr3d	NSLRWCD C37	BASE	153.76	9.87	18.50	0	1.82	0.00	23.34	0.00
10yr3d	NSLRWCD C37	BASE	154.01	9.87	18.50	0	1.82	0.00	23.38	0.00
10yr3d	NSLRWCD C37	BASE	154.26	9.87	18.50	0	1.81	0.00	23.42	0.00
10yr3d	NSLRWCD C37	BASE	154.51	9.86	18.50	0	1.80	0.00	23.46	0.00
10yr3d	NSLRWCD C37	BASE	154.76	9.86	18.50	0	1.80	0.00	23.49	0.00
10yr3d	NSLRWCD C37	BASE	155.01	9.86	18.50	0	1.79	0.00	23.53	0.00
10yr3d	NSLRWCD C37	BASE	155.26	9.86	18.50	0	1.79	0.00	23.57	0.00
10yr3d	NSLRWCD C37	BASE	155.51	9.85	18.50	0	1.78	0.00	23.60	0.00
10yr3d	NSLRWCD C37	BASE	155.76	9.85	18.50	0	1.77	0.00	23.64	0.00
10yr3d	NSLRWCD C37	BASE	156.01	9.85	18.50	0	1.77	0.00	23.68	0.00
10yr3d	NSLRWCD C37	BASE	156.26	9.85	18.50	0	1.76	0.00	23.71	0.00
10yr3d	NSLRWCD C37	BASE	156.51	9.84	18.50	0	1.76	0.00	23.75	0.00
10yr3d	NSLRWCD C37	BASE	156.76	9.84	18.50	0	1.75	0.00	23.79	0.00
10yr3d	NSLRWCD C37	BASE	157.01	9.84	18.50	0	1.74	0.00	23.82	0.00
10yr3d	NSLRWCD C37	BASE	157.26	9.84	18.50	0	1.74	0.00	23.86	0.00
10yr3d	NSLRWCD C37	BASE	157.51	9.83	18.50	0	1.73	0.00	23.89	0.00
10yr3d	NSLRWCD C37	BASE	157.76	9.83	18.50	0	1.73	0.00	23.93	0.00
10yr3d	NSLRWCD C37	BASE	158.01	9.83	18.50	0	1.72	0.00	23.97	0.00
10yr3d	NSLRWCD C37	BASE	158.26	9.83	18.50	0	1.72	0.00	24.00	0.00
10yr3d	NSLRWCD C37	BASE	158.51	9.82	18.50	0	1.71	0.00	24.04	0.00
10yr3d	NSLRWCD C37	BASE	158.76	9.82	18.50	0	1.70	0.00	24.07	0.00
10yr3d	NSLRWCD C37	BASE	159.01	9.82	18.50	0	1.70	0.00	24.11	0.00
10yr3d	NSLRWCD C37	BASE	159.26	9.82	18.50	0	1.69	0.00	24.14	0.00
10yr3d	NSLRWCD C37	BASE	159.51	9.81	18.50	0	1.69	0.00	24.18	0.00
10yr3d	NSLRWCD C37	BASE	159.76	9.81	18.50	0	1.68	0.00	24.21	0.00
10yr3d	NSLRWCD C37	BASE	160.01	9.81	18.50	0	1.67	0.00	24.25	0.00
10yr3d	NSLRWCD C37	BASE	160.26	9.81	18.50	0	1.67	0.00	24.28	0.00
10yr3d	NSLRWCD C37	BASE	160.51	9.80	18.50	0	1.66	0.00	24.31	0.00
10yr3d	NSLRWCD C37	BASE	160.76	9.80	18.50	0	1.66	0.00	24.35	0.00
10yr3d	NSLRWCD C37	BASE	161.01	9.80	18.50	0	1.65	0.00	24.38	0.00
10yr3d	NSLRWCD C37	BASE	161.26	9.80	18.50	0	1.65	0.00	24.42	0.00
10yr3d	NSLRWCD C37	BASE	161.51	9.79	18.50	0	1.64	0.00	24.45	0.00
10yr3d	NSLRWCD C37	BASE	161.76	9.79	18.50	0	1.63	0.00	24.49	0.00
10yr3d	NSLRWCD C37	BASE	162.01	9.79	18.50	0	1.63	0.00	24.52	0.00
10yr3d	NSLRWCD C37	BASE	162.26	9.78	18.50	0	1.62	0.00	24.55	0.00
10yr3d	NSLRWCD C37	BASE	162.51	9.78	18.50	0	1.62	0.00	24.59	0.00
10yr3d	NSLRWCD C37	BASE	162.76	9.78	18.50	0	1.61	0.00	24.62	0.00
10yr3d	NSLRWCD C37	BASE	163.01	9.78	18.50	0	1.61	0.00	24.65	0.00
10yr3d	NSLRWCD C37	BASE	163.26	9.77	18.50	0	1.60	0.00	24.69	0.00
10yr3d	NSLRWCD C37	BASE	163.51	9.77	18.50	0	1.60	0.00	24.72	0.00
10yr3d	NSLRWCD C37	BASE	163.76	9.77	18.50	0	1.59	0.00	24.75	0.00
10yr3d	NSLRWCD C37	BASE	164.01	9.77	18.50	0	1.58	0.00	24.78	0.00
10yr3d	NSLRWCD C37	BASE	164.26	9.76	18.50	0	1.58	0.00	24.82	0.00
10yr3d	NSLRWCD C37	BASE	164.51	9.76	18.50	0	1.57	0.00	24.85	0.00
10yr3d	NSLRWCD C37	BASE	164.76	9.76	18.50	0	1.57	0.00	24.88	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	165.01	9.76	18.50	0	1.56	0.00	24.91	0.00
10yr3d	NSLRWCD C37	BASE	165.26	9.75	18.50	0	1.56	0.00	24.95	0.00
10yr3d	NSLRWCD C37	BASE	165.51	9.75	18.50	0	1.55	0.00	24.98	0.00
10yr3d	NSLRWCD C37	BASE	165.76	9.75	18.50	0	1.54	0.00	25.01	0.00
10yr3d	NSLRWCD C37	BASE	166.01	9.75	18.50	0	1.54	0.00	25.04	0.00
10yr3d	NSLRWCD C37	BASE	166.26	9.74	18.50	0	1.53	0.00	25.07	0.00
10yr3d	NSLRWCD C37	BASE	166.51	9.74	18.50	0	1.52	0.00	25.11	0.00
10yr3d	NSLRWCD C37	BASE	166.76	9.74	18.50	0	1.51	0.00	25.14	0.00
10yr3d	NSLRWCD C37	BASE	167.01	9.74	18.50	0	1.51	0.00	25.17	0.00
10yr3d	NSLRWCD C37	BASE	167.26	9.73	18.50	0	1.50	0.00	25.20	0.00
10yr3d	NSLRWCD C37	BASE	167.51	9.73	18.50	0	1.49	0.00	25.23	0.00
10yr3d	NSLRWCD C37	BASE	167.76	9.73	18.50	0	1.48	0.00	25.26	0.00
10yr3d	NSLRWCD C37	BASE	168.01	9.73	18.50	0	1.48	0.00	25.29	0.00
10yr3d	NSLRWCD C37	BASE	168.26	9.72	18.50	0	1.47	0.00	25.32	0.00
10yr3d	NSLRWCD C37	BASE	168.51	9.72	18.50	0	1.46	0.00	25.35	0.00
10yr3d	NSLRWCD C37	BASE	168.76	9.72	18.50	0	1.46	0.00	25.38	0.00
10yr3d	NSLRWCD C37	BASE	169.01	9.72	18.50	0	1.45	0.00	25.41	0.00
10yr3d	NSLRWCD C37	BASE	169.26	9.71	18.50	0	1.44	0.00	25.44	0.00
10yr3d	NSLRWCD C37	BASE	169.51	9.71	18.50	0	1.44	0.00	25.47	0.00
10yr3d	NSLRWCD C37	BASE	169.76	9.71	18.50	0	1.43	0.00	25.50	0.00
10yr3d	NSLRWCD C37	BASE	170.01	9.71	18.50	0	1.42	0.00	25.53	0.00
10yr3d	NSLRWCD C37	BASE	170.26	9.70	18.50	0	1.42	0.00	25.56	0.00
10yr3d	NSLRWCD C37	BASE	170.51	9.70	18.50	0	1.41	0.00	25.59	0.00
10yr3d	NSLRWCD C37	BASE	170.76	9.70	18.50	0	1.40	0.00	25.62	0.00
10yr3d	NSLRWCD C37	BASE	171.01	9.70	18.50	0	1.40	0.00	25.65	0.00
10yr3d	NSLRWCD C37	BASE	171.26	9.69	18.50	0	1.39	0.00	25.68	0.00
10yr3d	NSLRWCD C37	BASE	171.51	9.69	18.50	0	1.39	0.00	25.71	0.00
10yr3d	NSLRWCD C37	BASE	171.76	9.69	18.50	0	1.38	0.00	25.73	0.00
10yr3d	NSLRWCD C37	BASE	172.01	9.69	18.50	0	1.37	0.00	25.76	0.00
10yr3d	NSLRWCD C37	BASE	172.26	9.68	18.50	0	1.37	0.00	25.79	0.00
10yr3d	NSLRWCD C37	BASE	172.51	9.68	18.50	0	1.36	0.00	25.82	0.00
10yr3d	NSLRWCD C37	BASE	172.76	9.68	18.50	0	1.36	0.00	25.85	0.00
10yr3d	NSLRWCD C37	BASE	173.01	9.68	18.50	0	1.35	0.00	25.87	0.00
10yr3d	NSLRWCD C37	BASE	173.26	9.67	18.50	0	1.34	0.00	25.90	0.00
10yr3d	NSLRWCD C37	BASE	173.51	9.67	18.50	0	1.34	0.00	25.93	0.00
10yr3d	NSLRWCD C37	BASE	173.76	9.67	18.50	0	1.33	0.00	25.96	0.00
10yr3d	NSLRWCD C37	BASE	174.01	9.67	18.50	0	1.33	0.00	25.99	0.00
10yr3d	NSLRWCD C37	BASE	174.26	9.66	18.50	0	1.32	0.00	26.01	0.00
10yr3d	NSLRWCD C37	BASE	174.51	9.66	18.50	0	1.31	0.00	26.04	0.00
10yr3d	NSLRWCD C37	BASE	174.76	9.66	18.50	0	1.31	0.00	26.07	0.00
10yr3d	NSLRWCD C37	BASE	175.01	9.66	18.50	0	1.30	0.00	26.09	0.00
10yr3d	NSLRWCD C37	BASE	175.26	9.65	18.50	0	1.30	0.00	26.12	0.00
10yr3d	NSLRWCD C37	BASE	175.51	9.65	18.50	0	1.29	0.00	26.15	0.00
10yr3d	NSLRWCD C37	BASE	175.76	9.65	18.50	0	1.28	0.00	26.17	0.00
10yr3d	NSLRWCD C37	BASE	176.01	9.65	18.50	0	1.28	0.00	26.20	0.00
10yr3d	NSLRWCD C37	BASE	176.26	9.64	18.50	0	1.27	0.00	26.23	0.00
10yr3d	NSLRWCD C37	BASE	176.51	9.64	18.50	0	1.27	0.00	26.25	0.00
10yr3d	NSLRWCD C37	BASE	176.76	9.64	18.50	0	1.26	0.00	26.28	0.00
10yr3d	NSLRWCD C37	BASE	177.01	9.64	18.50	0	1.26	0.00	26.31	0.00
10yr3d	NSLRWCD C37	BASE	177.26	9.63	18.50	0	1.25	0.00	26.33	0.00
10yr3d	NSLRWCD C37	BASE	177.51	9.63	18.50	0	1.25	0.00	26.36	0.00
10yr3d	NSLRWCD C37	BASE	177.76	9.63	18.50	0	1.24	0.00	26.38	0.00
10yr3d	NSLRWCD C37	BASE	178.01	9.63	18.50	0	1.24	0.00	26.41	0.00
10yr3d	NSLRWCD C37	BASE	178.26	9.62	18.50	0	1.23	0.00	26.43	0.00
10yr3d	NSLRWCD C37	BASE	178.51	9.62	18.50	0	1.22	0.00	26.46	0.00
10yr3d	NSLRWCD C37	BASE	178.76	9.62	18.50	0	1.22	0.00	26.48	0.00
10yr3d	NSLRWCD C37	BASE	179.01	9.62	18.50	0	1.22	0.00	26.51	0.00
10yr3d	NSLRWCD C37	BASE	179.26	9.61	18.50	0	1.21	0.00	26.53	0.00
10yr3d	NSLRWCD C37	BASE	179.51	9.61	18.50	0	1.21	0.00	26.56	0.00
10yr3d	NSLRWCD C37	BASE	179.76	9.61	18.50	0	1.20	0.00	26.58	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	180.01	9.60	18.50	0	1.20	0.00	26.61	0.00
10yr3d	NSLRWCD C37	BASE	180.26	9.60	18.50	0	1.19	0.00	26.63	0.00
10yr3d	NSLRWCD C37	BASE	180.51	9.60	18.50	0	1.19	0.00	26.66	0.00
10yr3d	NSLRWCD C37	BASE	180.76	9.60	18.50	0	1.18	0.00	26.68	0.00
10yr3d	NSLRWCD C37	BASE	181.01	9.59	18.50	0	1.18	0.00	26.71	0.00
10yr3d	NSLRWCD C37	BASE	181.26	9.59	18.50	0	1.17	0.00	26.73	0.00
10yr3d	NSLRWCD C37	BASE	181.51	9.59	18.50	0	1.17	0.00	26.76	0.00
10yr3d	NSLRWCD C37	BASE	181.76	9.59	18.50	0	1.16	0.00	26.78	0.00
10yr3d	NSLRWCD C37	BASE	182.01	9.58	18.50	0	1.16	0.00	26.80	0.00
10yr3d	NSLRWCD C37	BASE	182.26	9.58	18.50	0	1.16	0.00	26.83	0.00
10yr3d	NSLRWCD C37	BASE	182.51	9.58	18.50	0	1.15	0.00	26.85	0.00
10yr3d	NSLRWCD C37	BASE	182.76	9.58	18.50	0	1.15	0.00	26.88	0.00
10yr3d	NSLRWCD C37	BASE	183.01	9.57	18.50	0	1.14	0.00	26.90	0.00
10yr3d	NSLRWCD C37	BASE	183.26	9.57	18.50	0	1.14	0.00	26.92	0.00
10yr3d	NSLRWCD C37	BASE	183.51	9.57	18.50	0	1.14	0.00	26.95	0.00
10yr3d	NSLRWCD C37	BASE	183.76	9.57	18.50	0	1.13	0.00	26.97	0.00
10yr3d	NSLRWCD C37	BASE	184.01	9.56	18.50	0	1.13	0.00	26.99	0.00
10yr3d	NSLRWCD C37	BASE	184.26	9.56	18.50	0	1.12	0.00	27.02	0.00
10yr3d	NSLRWCD C37	BASE	184.51	9.56	18.50	0	1.12	0.00	27.04	0.00
10yr3d	NSLRWCD C37	BASE	184.76	9.56	18.50	0	1.12	0.00	27.06	0.00
10yr3d	NSLRWCD C37	BASE	185.01	9.55	18.50	0	1.11	0.00	27.09	0.00
10yr3d	NSLRWCD C37	BASE	185.26	9.55	18.50	0	1.11	0.00	27.11	0.00
10yr3d	NSLRWCD C37	BASE	185.51	9.55	18.50	0	1.11	0.00	27.13	0.00
10yr3d	NSLRWCD C37	BASE	185.76	9.55	18.50	0	1.10	0.00	27.15	0.00
10yr3d	NSLRWCD C37	BASE	186.01	9.54	18.50	0	1.10	0.00	27.18	0.00
10yr3d	NSLRWCD C37	BASE	186.26	9.54	18.50	0	1.10	0.00	27.20	0.00
10yr3d	NSLRWCD C37	BASE	186.51	9.54	18.50	0	1.09	0.00	27.22	0.00
10yr3d	NSLRWCD C37	BASE	186.76	9.54	18.50	0	1.09	0.00	27.24	0.00
10yr3d	NSLRWCD C37	BASE	187.01	9.53	18.50	0	1.08	0.00	27.27	0.00
10yr3d	NSLRWCD C37	BASE	187.26	9.53	18.50	0	1.08	0.00	27.29	0.00
10yr3d	NSLRWCD C37	BASE	187.51	9.53	18.50	0	1.08	0.00	27.31	0.00
10yr3d	NSLRWCD C37	BASE	187.76	9.53	18.50	0	1.07	0.00	27.33	0.00
10yr3d	NSLRWCD C37	BASE	188.01	9.52	18.50	0	1.07	0.00	27.36	0.00
10yr3d	NSLRWCD C37	BASE	188.26	9.52	18.50	0	1.07	0.00	27.38	0.00
10yr3d	NSLRWCD C37	BASE	188.51	9.52	18.50	0	1.07	0.00	27.40	0.00
10yr3d	NSLRWCD C37	BASE	188.76	9.52	18.50	0	1.06	0.00	27.42	0.00
10yr3d	NSLRWCD C37	BASE	189.01	9.51	18.50	0	1.06	0.00	27.44	0.00
10yr3d	NSLRWCD C37	BASE	189.26	9.51	18.50	0	1.06	0.00	27.47	0.00
10yr3d	NSLRWCD C37	BASE	189.51	9.51	18.50	0	1.05	0.00	27.49	0.00
10yr3d	NSLRWCD C37	BASE	189.76	9.51	18.50	0	1.05	0.00	27.51	0.00
10yr3d	NSLRWCD C37	BASE	190.01	9.50	18.50	0	1.05	0.00	27.53	0.00
10yr3d	NSLRWCD C37	BASE	190.26	9.50	18.50	0	1.04	0.00	27.55	0.00
10yr3d	NSLRWCD C37	BASE	190.51	9.50	18.50	0	1.04	0.00	27.57	0.00
10yr3d	NSLRWCD C37	BASE	190.76	9.50	18.50	0	1.04	0.00	27.60	0.00
10yr3d	NSLRWCD C37	BASE	191.01	9.49	18.50	0	1.03	0.00	27.62	0.00
10yr3d	NSLRWCD C37	BASE	191.26	9.49	18.50	0	1.03	0.00	27.64	0.00
10yr3d	NSLRWCD C37	BASE	191.51	9.49	18.50	0	1.03	0.00	27.66	0.00
10yr3d	NSLRWCD C37	BASE	191.76	9.49	18.50	0	1.03	0.00	27.68	0.00
10yr3d	NSLRWCD C37	BASE	192.01	9.48	18.50	0	1.02	0.00	27.70	0.00
10yr3d	NSLRWCD C37	BASE	192.26	9.48	18.50	0	1.02	0.00	27.72	0.00
10yr3d	NSLRWCD C37	BASE	192.51	9.48	18.50	0	1.02	0.00	27.74	0.00
10yr3d	NSLRWCD C37	BASE	192.76	9.48	18.50	0	1.01	0.00	27.77	0.00
10yr3d	NSLRWCD C37	BASE	193.01	9.47	18.50	0	1.01	0.00	27.79	0.00
10yr3d	NSLRWCD C37	BASE	193.26	9.47	18.50	0	1.01	0.00	27.81	0.00
10yr3d	NSLRWCD C37	BASE	193.51	9.47	18.50	0	1.01	0.00	27.83	0.00
10yr3d	NSLRWCD C37	BASE	193.76	9.47	18.50	0	1.00	0.00	27.85	0.00
10yr3d	NSLRWCD C37	BASE	194.01	9.46	18.50	0	1.00	0.00	27.87	0.00
10yr3d	NSLRWCD C37	BASE	194.26	9.46	18.50	0	1.00	0.00	27.89	0.00
10yr3d	NSLRWCD C37	BASE	194.51	9.46	18.50	0	1.00	0.00	27.91	0.00
10yr3d	NSLRWCD C37	BASE	194.76	9.46	18.50	0	0.99	0.00	27.93	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	195.01	9.45	18.50	0	0.99	0.00	27.95	0.00
10yr3d	NSLRWCD C37	BASE	195.26	9.45	18.50	0	0.99	0.00	27.97	0.00
10yr3d	NSLRWCD C37	BASE	195.51	9.45	18.50	0	0.99	0.00	27.99	0.00
10yr3d	NSLRWCD C37	BASE	195.76	9.45	18.50	0	0.98	0.00	28.01	0.00
10yr3d	NSLRWCD C37	BASE	196.01	9.44	18.50	0	0.98	0.00	28.03	0.00
10yr3d	NSLRWCD C37	BASE	196.26	9.44	18.50	0	0.98	0.00	28.05	0.00
10yr3d	NSLRWCD C37	BASE	196.51	9.44	18.50	0	0.98	0.00	28.07	0.00
10yr3d	NSLRWCD C37	BASE	196.76	9.44	18.50	0	0.97	0.00	28.09	0.00
10yr3d	NSLRWCD C37	BASE	197.01	9.43	18.50	0	0.97	0.00	28.11	0.00
10yr3d	NSLRWCD C37	BASE	197.26	9.43	18.50	0	0.97	0.00	28.13	0.00
10yr3d	NSLRWCD C37	BASE	197.51	9.43	18.50	0	0.97	0.00	28.15	0.00
10yr3d	NSLRWCD C37	BASE	197.76	9.42	18.50	0	0.96	0.00	28.17	0.00
10yr3d	NSLRWCD C37	BASE	198.01	9.42	18.50	0	0.96	0.00	28.19	0.00
10yr3d	NSLRWCD C37	BASE	198.26	9.42	18.50	0	0.96	0.00	28.21	0.00
10yr3d	NSLRWCD C37	BASE	198.51	9.42	18.50	0	0.96	0.00	28.23	0.00
10yr3d	NSLRWCD C37	BASE	198.76	9.41	18.50	0	0.95	0.00	28.25	0.00
10yr3d	NSLRWCD C37	BASE	199.01	9.41	18.50	0	0.95	0.00	28.27	0.00
10yr3d	NSLRWCD C37	BASE	199.26	9.41	18.50	0	0.95	0.00	28.29	0.00
10yr3d	NSLRWCD C37	BASE	199.51	9.41	18.50	0	0.95	0.00	28.31	0.00
10yr3d	NSLRWCD C37	BASE	199.76	9.40	18.50	0	0.95	0.00	28.33	0.00
10yr3d	NSLRWCD C37	BASE	200.01	9.40	18.50	0	0.94	0.00	28.35	0.00
10yr3d	NSLRWCD C37	BASE	200.26	9.40	18.50	0	0.94	0.00	28.37	0.00
10yr3d	NSLRWCD C37	BASE	200.51	9.40	18.50	0	0.94	0.00	28.39	0.00
10yr3d	NSLRWCD C37	BASE	200.76	9.39	18.50	0	0.94	0.00	28.41	0.00
10yr3d	NSLRWCD C37	BASE	201.01	9.39	18.50	0	0.93	0.00	28.43	0.00
10yr3d	NSLRWCD C37	BASE	201.26	9.39	18.50	0	0.93	0.00	28.45	0.00
10yr3d	NSLRWCD C37	BASE	201.51	9.39	18.50	0	0.93	0.00	28.47	0.00
10yr3d	NSLRWCD C37	BASE	201.76	9.38	18.50	0	0.93	0.00	28.49	0.00
10yr3d	NSLRWCD C37	BASE	202.01	9.38	18.50	0	0.93	0.00	28.51	0.00
10yr3d	NSLRWCD C37	BASE	202.26	9.38	18.50	0	0.92	0.00	28.53	0.00
10yr3d	NSLRWCD C37	BASE	202.51	9.38	18.50	0	0.92	0.00	28.54	0.00
10yr3d	NSLRWCD C37	BASE	202.76	9.37	18.50	0	0.92	0.00	28.56	0.00
10yr3d	NSLRWCD C37	BASE	203.01	9.37	18.50	0	0.92	0.00	28.58	0.00
10yr3d	NSLRWCD C37	BASE	203.26	9.37	18.50	0	0.92	0.00	28.60	0.00
10yr3d	NSLRWCD C37	BASE	203.51	9.37	18.50	0	0.91	0.00	28.62	0.00
10yr3d	NSLRWCD C37	BASE	203.76	9.36	18.50	0	0.91	0.00	28.64	0.00
10yr3d	NSLRWCD C37	BASE	204.01	9.36	18.50	0	0.91	0.00	28.66	0.00
10yr3d	NSLRWCD C37	BASE	204.26	9.36	18.50	0	0.91	0.00	28.68	0.00
10yr3d	NSLRWCD C37	BASE	204.51	9.36	18.50	0	0.91	0.00	28.70	0.00
10yr3d	NSLRWCD C37	BASE	204.76	9.35	18.50	0	0.90	0.00	28.71	0.00
10yr3d	NSLRWCD C37	BASE	205.01	9.35	18.50	0	0.90	0.00	28.73	0.00
10yr3d	NSLRWCD C37	BASE	205.26	9.35	18.50	0	0.90	0.00	28.75	0.00
10yr3d	NSLRWCD C37	BASE	205.51	9.35	18.50	0	0.90	0.00	28.77	0.00
10yr3d	NSLRWCD C37	BASE	205.76	9.34	18.50	0	0.90	0.00	28.79	0.00
10yr3d	NSLRWCD C37	BASE	206.01	9.34	18.50	0	0.89	0.00	28.81	0.00
10yr3d	NSLRWCD C37	BASE	206.26	9.34	18.50	0	0.89	0.00	28.83	0.00
10yr3d	NSLRWCD C37	BASE	206.51	9.34	18.50	0	0.89	0.00	28.84	0.00
10yr3d	NSLRWCD C37	BASE	206.76	9.33	18.50	0	0.89	0.00	28.86	0.00
10yr3d	NSLRWCD C37	BASE	207.01	9.33	18.50	0	0.89	0.00	28.88	0.00
10yr3d	NSLRWCD C37	BASE	207.26	9.33	18.50	0	0.89	0.00	28.90	0.00
10yr3d	NSLRWCD C37	BASE	207.51	9.33	18.50	0	0.88	0.00	28.92	0.00
10yr3d	NSLRWCD C37	BASE	207.76	9.32	18.50	0	0.88	0.00	28.94	0.00
10yr3d	NSLRWCD C37	BASE	208.01	9.32	18.50	0	0.88	0.00	28.95	0.00
10yr3d	NSLRWCD C37	BASE	208.26	9.32	18.50	0	0.88	0.00	28.97	0.00
10yr3d	NSLRWCD C37	BASE	208.51	9.32	18.50	0	0.88	0.00	28.99	0.00
10yr3d	NSLRWCD C37	BASE	208.76	9.31	18.50	0	0.87	0.00	29.01	0.00
10yr3d	NSLRWCD C37	BASE	209.01	9.31	18.50	0	0.87	0.00	29.03	0.00
10yr3d	NSLRWCD C37	BASE	209.26	9.31	18.50	0	0.87	0.00	29.04	0.00
10yr3d	NSLRWCD C37	BASE	209.51	9.31	18.50	0	0.87	0.00	29.06	0.00
10yr3d	NSLRWCD C37	BASE	209.76	9.30	18.50	0	0.87	0.00	29.08	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	210.01	9.30	18.50	0	0.87	0.00	29.10	0.00
10yr3d	NSLRWCD C37	BASE	210.26	9.30	18.50	0	0.86	0.00	29.12	0.00
10yr3d	NSLRWCD C37	BASE	210.51	9.30	18.50	0	0.86	0.00	29.13	0.00
10yr3d	NSLRWCD C37	BASE	210.76	9.29	18.50	0	0.86	0.00	29.15	0.00
10yr3d	NSLRWCD C37	BASE	211.01	9.29	18.50	0	0.86	0.00	29.17	0.00
10yr3d	NSLRWCD C37	BASE	211.26	9.29	18.50	0	0.86	0.00	29.19	0.00
10yr3d	NSLRWCD C37	BASE	211.51	9.29	18.50	0	0.86	0.00	29.20	0.00
10yr3d	NSLRWCD C37	BASE	211.76	9.28	18.50	0	0.85	0.00	29.22	0.00
10yr3d	NSLRWCD C37	BASE	212.01	9.28	18.50	0	0.85	0.00	29.24	0.00
10yr3d	NSLRWCD C37	BASE	212.26	9.28	18.50	0	0.85	0.00	29.26	0.00
10yr3d	NSLRWCD C37	BASE	212.51	9.28	18.50	0	0.85	0.00	29.28	0.00
10yr3d	NSLRWCD C37	BASE	212.76	9.27	18.50	0	0.85	0.00	29.29	0.00
10yr3d	NSLRWCD C37	BASE	213.01	9.27	18.50	0	0.85	0.00	29.31	0.00
10yr3d	NSLRWCD C37	BASE	213.26	9.27	18.50	0	0.84	0.00	29.33	0.00
10yr3d	NSLRWCD C37	BASE	213.51	9.27	18.50	0	0.84	0.00	29.35	0.00
10yr3d	NSLRWCD C37	BASE	213.76	9.26	18.50	0	0.84	0.00	29.36	0.00
10yr3d	NSLRWCD C37	BASE	214.01	9.26	18.50	0	0.84	0.00	29.38	0.00
10yr3d	NSLRWCD C37	BASE	214.26	9.26	18.50	0	0.84	0.00	29.40	0.00
10yr3d	NSLRWCD C37	BASE	214.51	9.26	18.50	0	0.84	0.00	29.41	0.00
10yr3d	NSLRWCD C37	BASE	214.76	9.25	18.50	0	0.83	0.00	29.43	0.00
10yr3d	NSLRWCD C37	BASE	215.01	9.25	18.50	0	0.83	0.00	29.45	0.00
10yr3d	NSLRWCD C37	BASE	215.26	9.25	18.50	0	0.83	0.00	29.47	0.00
10yr3d	NSLRWCD C37	BASE	215.51	9.25	18.50	0	0.83	0.00	29.48	0.00
10yr3d	NSLRWCD C37	BASE	215.76	9.24	18.50	0	0.83	0.00	29.50	0.00
10yr3d	NSLRWCD C37	BASE	216.01	9.24	18.50	0	0.83	0.00	29.52	0.00
10yr3d	NSLRWCD C37	BASE	216.26	9.24	18.50	0	0.83	0.00	29.53	0.00
10yr3d	NSLRWCD C37	BASE	216.51	9.23	18.50	0	0.82	0.00	29.55	0.00
10yr3d	NSLRWCD C37	BASE	216.76	9.23	18.50	0	0.82	0.00	29.57	0.00
10yr3d	NSLRWCD C37	BASE	217.01	9.23	18.50	0	0.82	0.00	29.59	0.00
10yr3d	NSLRWCD C37	BASE	217.26	9.23	18.50	0	0.82	0.00	29.60	0.00
10yr3d	NSLRWCD C37	BASE	217.51	9.22	18.50	0	0.82	0.00	29.62	0.00
10yr3d	NSLRWCD C37	BASE	217.76	9.22	18.50	0	0.82	0.00	29.64	0.00
10yr3d	NSLRWCD C37	BASE	218.01	9.22	18.50	0	0.81	0.00	29.65	0.00
10yr3d	NSLRWCD C37	BASE	218.26	9.22	18.50	0	0.81	0.00	29.67	0.00
10yr3d	NSLRWCD C37	BASE	218.51	9.21	18.50	0	0.81	0.00	29.69	0.00
10yr3d	NSLRWCD C37	BASE	218.76	9.21	18.50	0	0.81	0.00	29.70	0.00
10yr3d	NSLRWCD C37	BASE	219.01	9.21	18.50	0	0.81	0.00	29.72	0.00
10yr3d	NSLRWCD C37	BASE	219.26	9.21	18.50	0	0.81	0.00	29.74	0.00
10yr3d	NSLRWCD C37	BASE	219.51	9.20	18.50	0	0.81	0.00	29.75	0.00
10yr3d	NSLRWCD C37	BASE	219.76	9.20	18.50	0	0.80	0.00	29.77	0.00
10yr3d	NSLRWCD C37	BASE	220.01	9.20	18.50	0	0.80	0.00	29.79	0.00
10yr3d	NSLRWCD C37	BASE	220.26	9.20	18.50	0	0.80	0.00	29.80	0.00
10yr3d	NSLRWCD C37	BASE	220.51	9.19	18.50	0	0.80	0.00	29.82	0.00
10yr3d	NSLRWCD C37	BASE	220.76	9.19	18.50	0	0.80	0.00	29.84	0.00
10yr3d	NSLRWCD C37	BASE	221.01	9.19	18.50	0	0.80	0.00	29.85	0.00
10yr3d	NSLRWCD C37	BASE	221.26	9.19	18.50	0	0.80	0.00	29.87	0.00
10yr3d	NSLRWCD C37	BASE	221.51	9.18	18.50	0	0.79	0.00	29.89	0.00
10yr3d	NSLRWCD C37	BASE	221.76	9.18	18.50	0	0.79	0.00	29.90	0.00
10yr3d	NSLRWCD C37	BASE	222.01	9.18	18.50	0	0.79	0.00	29.92	0.00
10yr3d	NSLRWCD C37	BASE	222.26	9.18	18.50	0	0.79	0.00	29.93	0.00
10yr3d	NSLRWCD C37	BASE	222.51	9.17	18.50	0	0.79	0.00	29.95	0.00
10yr3d	NSLRWCD C37	BASE	222.76	9.17	18.50	0	0.79	0.00	29.97	0.00
10yr3d	NSLRWCD C37	BASE	223.01	9.17	18.50	0	0.79	0.00	29.98	0.00
10yr3d	NSLRWCD C37	BASE	223.26	9.17	18.50	0	0.78	0.00	30.00	0.00
10yr3d	NSLRWCD C37	BASE	223.51	9.16	18.50	0	0.78	0.00	30.02	0.00
10yr3d	NSLRWCD C37	BASE	223.76	9.16	18.50	0	0.78	0.00	30.03	0.00
10yr3d	NSLRWCD C37	BASE	224.01	9.16	18.50	0	0.78	0.00	30.05	0.00
10yr3d	NSLRWCD C37	BASE	224.26	9.16	18.50	0	0.78	0.00	30.06	0.00
10yr3d	NSLRWCD C37	BASE	224.51	9.15	18.50	0	0.78	0.00	30.08	0.00
10yr3d	NSLRWCD C37	BASE	224.76	9.15	18.50	0	0.78	0.00	30.10	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	225.01	9.15	18.50	0	0.77	0.00	30.11	0.00
10yr3d	NSLRWCD C37	BASE	225.26	9.15	18.50	0	0.77	0.00	30.13	0.00
10yr3d	NSLRWCD C37	BASE	225.51	9.14	18.50	0	0.77	0.00	30.14	0.00
10yr3d	NSLRWCD C37	BASE	225.76	9.14	18.50	0	0.77	0.00	30.16	0.00
10yr3d	NSLRWCD C37	BASE	226.01	9.14	18.50	0	0.77	0.00	30.18	0.00
10yr3d	NSLRWCD C37	BASE	226.26	9.14	18.50	0	0.77	0.00	30.19	0.00
10yr3d	NSLRWCD C37	BASE	226.51	9.13	18.50	0	0.77	0.00	30.21	0.00
10yr3d	NSLRWCD C37	BASE	226.76	9.13	18.50	0	0.76	0.00	30.22	0.00
10yr3d	NSLRWCD C37	BASE	227.01	9.13	18.50	0	0.76	0.00	30.24	0.00
10yr3d	NSLRWCD C37	BASE	227.26	9.13	18.50	0	0.76	0.00	30.26	0.00
10yr3d	NSLRWCD C37	BASE	227.51	9.12	18.50	0	0.76	0.00	30.27	0.00
10yr3d	NSLRWCD C37	BASE	227.76	9.12	18.50	0	0.76	0.00	30.29	0.00
10yr3d	NSLRWCD C37	BASE	228.01	9.12	18.50	0	0.76	0.00	30.30	0.00
10yr3d	NSLRWCD C37	BASE	228.26	9.12	18.50	0	0.76	0.00	30.32	0.00
10yr3d	NSLRWCD C37	BASE	228.51	9.11	18.50	0	0.76	0.00	30.33	0.00
10yr3d	NSLRWCD C37	BASE	228.76	9.11	18.50	0	0.75	0.00	30.35	0.00
10yr3d	NSLRWCD C37	BASE	229.01	9.11	18.50	0	0.75	0.00	30.36	0.00
10yr3d	NSLRWCD C37	BASE	229.26	9.11	18.50	0	0.75	0.00	30.38	0.00
10yr3d	NSLRWCD C37	BASE	229.51	9.10	18.50	0	0.75	0.00	30.40	0.00
10yr3d	NSLRWCD C37	BASE	229.76	9.10	18.50	0	0.75	0.00	30.41	0.00
10yr3d	NSLRWCD C37	BASE	230.01	9.10	18.50	0	0.75	0.00	30.43	0.00
10yr3d	NSLRWCD C37	BASE	230.26	9.10	18.50	0	0.75	0.00	30.44	0.00
10yr3d	NSLRWCD C37	BASE	230.51	9.09	18.50	0	0.75	0.00	30.46	0.00
10yr3d	NSLRWCD C37	BASE	230.76	9.09	18.50	0	0.74	0.00	30.47	0.00
10yr3d	NSLRWCD C37	BASE	231.01	9.09	18.50	0	0.74	0.00	30.49	0.00
10yr3d	NSLRWCD C37	BASE	231.26	9.09	18.50	0	0.74	0.00	30.50	0.00
10yr3d	NSLRWCD C37	BASE	231.51	9.08	18.50	0	0.74	0.00	30.52	0.00
10yr3d	NSLRWCD C37	BASE	231.76	9.08	18.50	0	0.74	0.00	30.53	0.00
10yr3d	NSLRWCD C37	BASE	232.01	9.08	18.50	0	0.74	0.00	30.55	0.00
10yr3d	NSLRWCD C37	BASE	232.26	9.08	18.50	0	0.74	0.00	30.56	0.00
10yr3d	NSLRWCD C37	BASE	232.51	9.07	18.50	0	0.73	0.00	30.58	0.00
10yr3d	NSLRWCD C37	BASE	232.76	9.07	18.50	0	0.73	0.00	30.60	0.00
10yr3d	NSLRWCD C37	BASE	233.01	9.07	18.50	0	0.73	0.00	30.61	0.00
10yr3d	NSLRWCD C37	BASE	233.26	9.07	18.50	0	0.73	0.00	30.63	0.00
10yr3d	NSLRWCD C37	BASE	233.51	9.06	18.50	0	0.73	0.00	30.64	0.00
10yr3d	NSLRWCD C37	BASE	233.76	9.06	18.50	0	0.73	0.00	30.66	0.00
10yr3d	NSLRWCD C37	BASE	234.01	9.06	18.50	0	0.73	0.00	30.67	0.00
10yr3d	NSLRWCD C37	BASE	234.26	9.05	18.50	0	0.73	0.00	30.69	0.00
10yr3d	NSLRWCD C37	BASE	234.51	9.05	18.50	0	0.72	0.00	30.70	0.00
10yr3d	NSLRWCD C37	BASE	234.76	9.05	18.50	0	0.72	0.00	30.72	0.00
10yr3d	NSLRWCD C37	BASE	235.01	9.05	18.50	0	0.72	0.00	30.73	0.00
10yr3d	NSLRWCD C37	BASE	235.26	9.04	18.50	0	0.72	0.00	30.75	0.00
10yr3d	NSLRWCD C37	BASE	235.51	9.04	18.50	0	0.72	0.00	30.76	0.00
10yr3d	NSLRWCD C37	BASE	235.76	9.04	18.50	0	0.72	0.00	30.78	0.00
10yr3d	NSLRWCD C37	BASE	236.01	9.04	18.50	0	0.72	0.00	30.79	0.00
10yr3d	NSLRWCD C37	BASE	236.26	9.03	18.50	0	0.72	0.00	30.80	0.00
10yr3d	NSLRWCD C37	BASE	236.51	9.03	18.50	0	0.71	0.00	30.82	0.00
10yr3d	NSLRWCD C37	BASE	236.76	9.03	18.50	0	0.71	0.00	30.83	0.00
10yr3d	NSLRWCD C37	BASE	237.01	9.03	18.50	0	0.71	0.00	30.85	0.00
10yr3d	NSLRWCD C37	BASE	237.26	9.02	18.50	0	0.71	0.00	30.86	0.00
10yr3d	NSLRWCD C37	BASE	237.51	9.02	18.50	0	0.71	0.00	30.88	0.00
10yr3d	NSLRWCD C37	BASE	237.76	9.02	18.50	0	0.71	0.00	30.89	0.00
10yr3d	NSLRWCD C37	BASE	238.01	9.02	18.50	0	0.71	0.00	30.91	0.00
10yr3d	NSLRWCD C37	BASE	238.26	9.01	18.50	0	0.71	0.00	30.92	0.00
10yr3d	NSLRWCD C37	BASE	238.51	9.01	18.50	0	0.71	0.00	30.94	0.00
10yr3d	NSLRWCD C37	BASE	238.76	9.01	18.50	0	0.70	0.00	30.95	0.00
10yr3d	NSLRWCD C37	BASE	239.01	9.01	18.50	0	0.70	0.00	30.97	0.00
10yr3d	NSLRWCD C37	BASE	239.26	9.00	18.50	0	0.70	0.00	30.98	0.00
10yr3d	NSLRWCD C37	BASE	239.51	9.00	18.50	0	0.70	0.00	31.00	0.00
10yr3d	NSLRWCD C37	BASE	239.76	9.00	18.50	0	0.70	0.00	31.01	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	240.01	9.00	18.50	0	0.70	0.00	31.02	0.00
10yr3d	NSLRWCD C37	BASE	240.26	8.99	18.50	0	0.70	0.00	31.04	0.00
10yr3d	NSLRWCD C37	BASE	240.51	8.99	18.50	0	0.70	0.00	31.05	0.00
10yr3d	NSLRWCD C37	BASE	240.76	8.99	18.50	0	0.69	0.00	31.07	0.00
10yr3d	NSLRWCD C37	BASE	241.01	8.99	18.50	0	0.69	0.00	31.08	0.00
10yr3d	NSLRWCD C37	BASE	241.26	8.98	18.50	0	0.69	0.00	31.10	0.00
10yr3d	NSLRWCD C37	BASE	241.51	8.98	18.50	0	0.69	0.00	31.11	0.00
10yr3d	NSLRWCD C37	BASE	241.76	8.98	18.50	0	0.69	0.00	31.12	0.00
10yr3d	NSLRWCD C37	BASE	242.01	8.98	18.50	0	0.69	0.00	31.14	0.00
10yr3d	NSLRWCD C37	BASE	242.26	8.97	18.50	0	0.69	0.00	31.15	0.00
10yr3d	NSLRWCD C37	BASE	242.51	8.97	18.50	0	0.69	0.00	31.17	0.00
10yr3d	NSLRWCD C37	BASE	242.76	8.97	18.50	0	0.69	0.00	31.18	0.00
10yr3d	NSLRWCD C37	BASE	243.01	8.97	18.50	0	0.68	0.00	31.20	0.00
10yr3d	NSLRWCD C37	BASE	243.26	8.96	18.50	0	0.68	0.00	31.21	0.00
10yr3d	NSLRWCD C37	BASE	243.51	8.96	18.50	0	0.68	0.00	31.22	0.00
10yr3d	NSLRWCD C37	BASE	243.76	8.96	18.50	0	0.68	0.00	31.24	0.00
10yr3d	NSLRWCD C37	BASE	244.01	8.96	18.50	0	0.68	0.00	31.25	0.00
10yr3d	NSLRWCD C37	BASE	244.26	8.95	18.50	0	0.68	0.00	31.27	0.00
10yr3d	NSLRWCD C37	BASE	244.51	8.95	18.50	0	0.68	0.00	31.28	0.00
10yr3d	NSLRWCD C37	BASE	244.76	8.95	18.50	0	0.68	0.00	31.29	0.00
10yr3d	NSLRWCD C37	BASE	245.01	8.95	18.50	0	0.67	0.00	31.31	0.00
10yr3d	NSLRWCD C37	BASE	245.26	8.94	18.50	0	0.67	0.00	31.32	0.00
10yr3d	NSLRWCD C37	BASE	245.51	8.94	18.50	0	0.67	0.00	31.34	0.00
10yr3d	NSLRWCD C37	BASE	245.76	8.94	18.50	0	0.67	0.00	31.35	0.00
10yr3d	NSLRWCD C37	BASE	246.01	8.94	18.50	0	0.67	0.00	31.36	0.00
10yr3d	NSLRWCD C37	BASE	246.26	8.93	18.50	0	0.67	0.00	31.38	0.00
10yr3d	NSLRWCD C37	BASE	246.51	8.93	18.50	0	0.67	0.00	31.39	0.00
10yr3d	NSLRWCD C37	BASE	246.76	8.93	18.50	0	0.67	0.00	31.40	0.00
10yr3d	NSLRWCD C37	BASE	247.01	8.93	18.50	0	0.67	0.00	31.42	0.00
10yr3d	NSLRWCD C37	BASE	247.26	8.92	18.50	0	0.66	0.00	31.43	0.00
10yr3d	NSLRWCD C37	BASE	247.51	8.92	18.50	0	0.66	0.00	31.45	0.00
10yr3d	NSLRWCD C37	BASE	247.76	8.92	18.50	0	0.66	0.00	31.46	0.00
10yr3d	NSLRWCD C37	BASE	248.01	8.92	18.50	0	0.66	0.00	31.47	0.00
10yr3d	NSLRWCD C37	BASE	248.26	8.91	18.50	0	0.66	0.00	31.49	0.00
10yr3d	NSLRWCD C37	BASE	248.51	8.91	18.50	0	0.66	0.00	31.50	0.00
10yr3d	NSLRWCD C37	BASE	248.76	8.91	18.50	0	0.66	0.00	31.51	0.00
10yr3d	NSLRWCD C37	BASE	249.01	8.91	18.50	0	0.66	0.00	31.53	0.00
10yr3d	NSLRWCD C37	BASE	249.26	8.90	18.50	0	0.66	0.00	31.54	0.00
10yr3d	NSLRWCD C37	BASE	249.51	8.90	18.50	0	0.65	0.00	31.55	0.00
10yr3d	NSLRWCD C37	BASE	249.76	8.90	18.50	0	0.65	0.00	31.57	0.00
10yr3d	NSLRWCD C37	BASE	250.01	8.90	18.50	0	0.65	0.00	31.58	0.00
10yr3d	NSLRWCD C37	BASE	250.26	8.89	18.50	0	0.65	0.00	31.60	0.00
10yr3d	NSLRWCD C37	BASE	250.51	8.89	18.50	0	0.65	0.00	31.61	0.00
10yr3d	NSLRWCD C37	BASE	250.76	8.89	18.50	0	0.65	0.00	31.62	0.00
10yr3d	NSLRWCD C37	BASE	251.01	8.89	18.50	0	0.65	0.00	31.64	0.00
10yr3d	NSLRWCD C37	BASE	251.26	8.88	18.50	0	0.65	0.00	31.65	0.00
10yr3d	NSLRWCD C37	BASE	251.51	8.88	18.50	0	0.65	0.00	31.66	0.00
10yr3d	NSLRWCD C37	BASE	251.76	8.88	18.50	0	0.64	0.00	31.68	0.00
10yr3d	NSLRWCD C37	BASE	252.01	8.87	18.50	0	0.64	0.00	31.69	0.00
10yr3d	NSLRWCD C37	BASE	252.26	8.87	18.50	0	0.64	0.00	31.70	0.00
10yr3d	NSLRWCD C37	BASE	252.51	8.87	18.50	0	0.64	0.00	31.72	0.00
10yr3d	NSLRWCD C37	BASE	252.76	8.87	18.50	0	0.64	0.00	31.73	0.00
10yr3d	NSLRWCD C37	BASE	253.01	8.86	18.50	0	0.64	0.00	31.74	0.00
10yr3d	NSLRWCD C37	BASE	253.26	8.86	18.50	0	0.64	0.00	31.75	0.00
10yr3d	NSLRWCD C37	BASE	253.51	8.86	18.50	0	0.64	0.00	31.77	0.00
10yr3d	NSLRWCD C37	BASE	253.76	8.86	18.50	0	0.64	0.00	31.78	0.00
10yr3d	NSLRWCD C37	BASE	254.01	8.85	18.50	0	0.63	0.00	31.79	0.00
10yr3d	NSLRWCD C37	BASE	254.26	8.85	18.50	0	0.63	0.00	31.81	0.00
10yr3d	NSLRWCD C37	BASE	254.51	8.85	18.50	0	0.63	0.00	31.82	0.00
10yr3d	NSLRWCD C37	BASE	254.76	8.85	18.50	0	0.63	0.00	31.83	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	255.01	8.84	18.50	0	0.63	0.00	31.85	0.00
10yr3d	NSLRWCD C37	BASE	255.26	8.84	18.50	0	0.63	0.00	31.86	0.00
10yr3d	NSLRWCD C37	BASE	255.51	8.84	18.50	0	0.63	0.00	31.87	0.00
10yr3d	NSLRWCD C37	BASE	255.76	8.84	18.50	0	0.63	0.00	31.89	0.00
10yr3d	NSLRWCD C37	BASE	256.01	8.83	18.50	0	0.63	0.00	31.90	0.00
10yr3d	NSLRWCD C37	BASE	256.26	8.83	18.50	0	0.62	0.00	31.91	0.00
10yr3d	NSLRWCD C37	BASE	256.51	8.83	18.50	0	0.62	0.00	31.92	0.00
10yr3d	NSLRWCD C37	BASE	256.76	8.83	18.50	0	0.62	0.00	31.94	0.00
10yr3d	NSLRWCD C37	BASE	257.01	8.82	18.50	0	0.62	0.00	31.95	0.00
10yr3d	NSLRWCD C37	BASE	257.26	8.82	18.50	0	0.62	0.00	31.96	0.00
10yr3d	NSLRWCD C37	BASE	257.51	8.82	18.50	0	0.62	0.00	31.98	0.00
10yr3d	NSLRWCD C37	BASE	257.76	8.82	18.50	0	0.62	0.00	31.99	0.00
10yr3d	NSLRWCD C37	BASE	258.01	8.81	18.50	0	0.62	0.00	32.00	0.00
10yr3d	NSLRWCD C37	BASE	258.26	8.81	18.50	0	0.62	0.00	32.01	0.00
10yr3d	NSLRWCD C37	BASE	258.51	8.81	18.50	0	0.62	0.00	32.03	0.00
10yr3d	NSLRWCD C37	BASE	258.76	8.81	18.50	0	0.61	0.00	32.04	0.00
10yr3d	NSLRWCD C37	BASE	259.01	8.80	18.50	0	0.61	0.00	32.05	0.00
10yr3d	NSLRWCD C37	BASE	259.26	8.80	18.50	0	0.61	0.00	32.06	0.00
10yr3d	NSLRWCD C37	BASE	259.51	8.80	18.50	0	0.61	0.00	32.08	0.00
10yr3d	NSLRWCD C37	BASE	259.76	8.80	18.50	0	0.61	0.00	32.09	0.00
10yr3d	NSLRWCD C37	BASE	260.01	8.79	18.50	0	0.61	0.00	32.10	0.00
10yr3d	NSLRWCD C37	BASE	260.26	8.79	18.50	0	0.61	0.00	32.12	0.00
10yr3d	NSLRWCD C37	BASE	260.51	8.79	18.50	0	0.61	0.00	32.13	0.00
10yr3d	NSLRWCD C37	BASE	260.76	8.79	18.50	0	0.61	0.00	32.14	0.00
10yr3d	NSLRWCD C37	BASE	261.01	8.78	18.50	0	0.61	0.00	32.15	0.00
10yr3d	NSLRWCD C37	BASE	261.26	8.78	18.50	0	0.60	0.00	32.17	0.00
10yr3d	NSLRWCD C37	BASE	261.51	8.78	18.50	0	0.60	0.00	32.18	0.00
10yr3d	NSLRWCD C37	BASE	261.76	8.78	18.50	0	0.60	0.00	32.19	0.00
10yr3d	NSLRWCD C37	BASE	262.01	8.77	18.50	0	0.60	0.00	32.20	0.00
10yr3d	NSLRWCD C37	BASE	262.26	8.77	18.50	0	0.60	0.00	32.22	0.00
10yr3d	NSLRWCD C37	BASE	262.51	8.77	18.50	0	0.60	0.00	32.23	0.00
10yr3d	NSLRWCD C37	BASE	262.76	8.77	18.50	0	0.60	0.00	32.24	0.00
10yr3d	NSLRWCD C37	BASE	263.01	8.76	18.50	0	0.60	0.00	32.25	0.00
10yr3d	NSLRWCD C37	BASE	263.26	8.76	18.50	0	0.60	0.00	32.26	0.00
10yr3d	NSLRWCD C37	BASE	263.51	8.76	18.50	0	0.59	0.00	32.28	0.00
10yr3d	NSLRWCD C37	BASE	263.76	8.76	18.50	0	0.59	0.00	32.29	0.00
10yr3d	NSLRWCD C37	BASE	264.01	8.75	18.50	0	0.59	0.00	32.30	0.00
10yr3d	NSLRWCD C37	BASE	264.26	8.75	18.50	0	0.59	0.00	32.31	0.00
10yr3d	NSLRWCD C37	BASE	264.51	8.75	18.50	0	0.59	0.00	32.33	0.00
10yr3d	NSLRWCD C37	BASE	264.76	8.75	18.50	0	0.59	0.00	32.34	0.00
10yr3d	NSLRWCD C37	BASE	265.01	8.74	18.50	0	0.59	0.00	32.35	0.00
10yr3d	NSLRWCD C37	BASE	265.26	8.74	18.50	0	0.59	0.00	32.36	0.00
10yr3d	NSLRWCD C37	BASE	265.51	8.74	18.50	0	0.59	0.00	32.37	0.00
10yr3d	NSLRWCD C37	BASE	265.76	8.74	18.50	0	0.59	0.00	32.39	0.00
10yr3d	NSLRWCD C37	BASE	266.01	8.73	18.50	0	0.58	0.00	32.40	0.00
10yr3d	NSLRWCD C37	BASE	266.26	8.73	18.50	0	0.58	0.00	32.41	0.00
10yr3d	NSLRWCD C37	BASE	266.51	8.73	18.50	0	0.58	0.00	32.42	0.00
10yr3d	NSLRWCD C37	BASE	266.76	8.73	18.50	0	0.58	0.00	32.43	0.00
10yr3d	NSLRWCD C37	BASE	267.01	8.72	18.50	0	0.58	0.00	32.45	0.00
10yr3d	NSLRWCD C37	BASE	267.26	8.72	18.50	0	0.58	0.00	32.46	0.00
10yr3d	NSLRWCD C37	BASE	267.51	8.72	18.50	0	0.58	0.00	32.47	0.00
10yr3d	NSLRWCD C37	BASE	267.76	8.72	18.50	0	0.58	0.00	32.48	0.00
10yr3d	NSLRWCD C37	BASE	268.01	8.71	18.50	0	0.58	0.00	32.49	0.00
10yr3d	NSLRWCD C37	BASE	268.26	8.71	18.50	0	0.58	0.00	32.51	0.00
10yr3d	NSLRWCD C37	BASE	268.51	8.71	18.50	0	0.58	0.00	32.52	0.00
10yr3d	NSLRWCD C37	BASE	268.76	8.71	18.50	0	0.57	0.00	32.53	0.00
10yr3d	NSLRWCD C37	BASE	269.01	8.70	18.50	0	0.57	0.00	32.54	0.00
10yr3d	NSLRWCD C37	BASE	269.26	8.70	18.50	0	0.57	0.00	32.55	0.00
10yr3d	NSLRWCD C37	BASE	269.51	8.70	18.50	0	0.57	0.00	32.57	0.00
10yr3d	NSLRWCD C37	BASE	269.76	8.69	18.50	0	0.57	0.00	32.58	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	270.01	8.69	18.50	0	0.57	0.00	32.59	0.00
10yr3d	NSLRWCD C37	BASE	270.26	8.69	18.50	0	0.57	0.00	32.60	0.00
10yr3d	NSLRWCD C37	BASE	270.51	8.69	18.50	0	0.57	0.00	32.61	0.00
10yr3d	NSLRWCD C37	BASE	270.76	8.68	18.50	0	0.57	0.00	32.62	0.00
10yr3d	NSLRWCD C37	BASE	271.01	8.68	18.50	0	0.57	0.00	32.64	0.00
10yr3d	NSLRWCD C37	BASE	271.26	8.68	18.50	0	0.56	0.00	32.65	0.00
10yr3d	NSLRWCD C37	BASE	271.51	8.68	18.50	0	0.56	0.00	32.66	0.00
10yr3d	NSLRWCD C37	BASE	271.76	8.67	18.50	0	0.56	0.00	32.67	0.00
10yr3d	NSLRWCD C37	BASE	272.01	8.67	18.50	0	0.56	0.00	32.68	0.00
10yr3d	NSLRWCD C37	BASE	272.26	8.67	18.50	0	0.56	0.00	32.69	0.00
10yr3d	NSLRWCD C37	BASE	272.51	8.67	18.50	0	0.56	0.00	32.71	0.00
10yr3d	NSLRWCD C37	BASE	272.76	8.66	18.50	0	0.56	0.00	32.72	0.00
10yr3d	NSLRWCD C37	BASE	273.01	8.66	18.50	0	0.56	0.00	32.73	0.00
10yr3d	NSLRWCD C37	BASE	273.26	8.66	18.50	0	0.56	0.00	32.74	0.00
10yr3d	NSLRWCD C37	BASE	273.51	8.66	18.50	0	0.56	0.00	32.75	0.00
10yr3d	NSLRWCD C37	BASE	273.76	8.65	18.50	0	0.56	0.00	32.76	0.00
10yr3d	NSLRWCD C37	BASE	274.01	8.65	18.50	0	0.55	0.00	32.78	0.00
10yr3d	NSLRWCD C37	BASE	274.26	8.65	18.50	0	0.55	0.00	32.79	0.00
10yr3d	NSLRWCD C37	BASE	274.51	8.65	18.50	0	0.55	0.00	32.80	0.00
10yr3d	NSLRWCD C37	BASE	274.76	8.64	18.50	0	0.55	0.00	32.81	0.00
10yr3d	NSLRWCD C37	BASE	275.01	8.64	18.50	0	0.55	0.00	32.82	0.00
10yr3d	NSLRWCD C37	BASE	275.26	8.64	18.50	0	0.55	0.00	32.83	0.00
10yr3d	NSLRWCD C37	BASE	275.51	8.64	18.50	0	0.55	0.00	32.84	0.00
10yr3d	NSLRWCD C37	BASE	275.76	8.63	18.50	0	0.55	0.00	32.85	0.00
10yr3d	NSLRWCD C37	BASE	276.01	8.63	18.50	0	0.55	0.00	32.87	0.00
10yr3d	NSLRWCD C37	BASE	276.26	8.63	18.50	0	0.55	0.00	32.88	0.00
10yr3d	NSLRWCD C37	BASE	276.51	8.63	18.50	0	0.55	0.00	32.89	0.00
10yr3d	NSLRWCD C37	BASE	276.76	8.62	18.50	0	0.54	0.00	32.90	0.00
10yr3d	NSLRWCD C37	BASE	277.01	8.62	18.50	0	0.54	0.00	32.91	0.00
10yr3d	NSLRWCD C37	BASE	277.26	8.62	18.50	0	0.54	0.00	32.92	0.00
10yr3d	NSLRWCD C37	BASE	277.51	8.62	18.50	0	0.54	0.00	32.93	0.00
10yr3d	NSLRWCD C37	BASE	277.76	8.61	18.50	0	0.54	0.00	32.94	0.00
10yr3d	NSLRWCD C37	BASE	278.01	8.61	18.50	0	0.54	0.00	32.96	0.00
10yr3d	NSLRWCD C37	BASE	278.26	8.61	18.50	0	0.54	0.00	32.97	0.00
10yr3d	NSLRWCD C37	BASE	278.51	8.61	18.50	0	0.54	0.00	32.98	0.00
10yr3d	NSLRWCD C37	BASE	278.76	8.60	18.50	0	0.54	0.00	32.99	0.00
10yr3d	NSLRWCD C37	BASE	279.01	8.60	18.50	0	0.54	0.00	33.00	0.00
10yr3d	NSLRWCD C37	BASE	279.26	8.60	18.50	0	0.54	0.00	33.01	0.00
10yr3d	NSLRWCD C37	BASE	279.51	8.60	18.50	0	0.54	0.00	33.02	0.00
10yr3d	NSLRWCD C37	BASE	279.76	8.59	18.50	0	0.53	0.00	33.03	0.00
10yr3d	NSLRWCD C37	BASE	280.01	8.59	18.50	0	0.53	0.00	33.04	0.00
10yr3d	NSLRWCD C37	BASE	280.26	8.59	18.50	0	0.53	0.00	33.06	0.00
10yr3d	NSLRWCD C37	BASE	280.51	8.59	18.50	0	0.53	0.00	33.07	0.00
10yr3d	NSLRWCD C37	BASE	280.76	8.58	18.50	0	0.53	0.00	33.08	0.00
10yr3d	NSLRWCD C37	BASE	281.01	8.58	18.50	0	0.53	0.00	33.09	0.00
10yr3d	NSLRWCD C37	BASE	281.26	8.58	18.50	0	0.53	0.00	33.10	0.00
10yr3d	NSLRWCD C37	BASE	281.51	8.58	18.50	0	0.53	0.00	33.11	0.00
10yr3d	NSLRWCD C37	BASE	281.76	8.57	18.50	0	0.53	0.00	33.12	0.00
10yr3d	NSLRWCD C37	BASE	282.01	8.57	18.50	0	0.53	0.00	33.13	0.00
10yr3d	NSLRWCD C37	BASE	282.26	8.57	18.50	0	0.53	0.00	33.14	0.00
10yr3d	NSLRWCD C37	BASE	282.51	8.57	18.50	0	0.53	0.00	33.15	0.00
10yr3d	NSLRWCD C37	BASE	282.76	8.56	18.50	0	0.53	0.00	33.17	0.00
10yr3d	NSLRWCD C37	BASE	283.01	8.56	18.50	0	0.52	0.00	33.18	0.00
10yr3d	NSLRWCD C37	BASE	283.26	8.56	18.50	0	0.52	0.00	33.19	0.00
10yr3d	NSLRWCD C37	BASE	283.51	8.56	18.50	0	0.52	0.00	33.20	0.00
10yr3d	NSLRWCD C37	BASE	283.76	8.55	18.50	0	0.52	0.00	33.21	0.00
10yr3d	NSLRWCD C37	BASE	284.01	8.55	18.50	0	0.52	0.00	33.22	0.00
10yr3d	NSLRWCD C37	BASE	284.26	8.55	18.50	0	0.52	0.00	33.23	0.00
10yr3d	NSLRWCD C37	BASE	284.51	8.55	18.50	0	0.52	0.00	33.24	0.00
10yr3d	NSLRWCD C37	BASE	284.76	8.54	18.50	0	0.52	0.00	33.25	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	285.01	8.54	18.50	0	0.52	0.00	33.26	0.00
10yr3d	NSLRWCD C37	BASE	285.26	8.54	18.50	0	0.52	0.00	33.27	0.00
10yr3d	NSLRWCD C37	BASE	285.51	8.54	18.50	0	0.52	0.00	33.28	0.00
10yr3d	NSLRWCD C37	BASE	285.76	8.53	18.50	0	0.52	0.00	33.29	0.00
10yr3d	NSLRWCD C37	BASE	286.01	8.53	18.50	0	0.52	0.00	33.30	0.00
10yr3d	NSLRWCD C37	BASE	286.26	8.53	18.50	0	0.51	0.00	33.32	0.00
10yr3d	NSLRWCD C37	BASE	286.51	8.53	18.50	0	0.51	0.00	33.33	0.00
10yr3d	NSLRWCD C37	BASE	286.76	8.52	18.50	0	0.51	0.00	33.34	0.00
10yr3d	NSLRWCD C37	BASE	287.01	8.52	18.50	0	0.51	0.00	33.35	0.00
10yr3d	NSLRWCD C37	BASE	287.26	8.52	18.50	0	0.51	0.00	33.36	0.00
10yr3d	NSLRWCD C37	BASE	287.51	8.52	18.50	0	0.51	0.00	33.37	0.00
10yr3d	NSLRWCD C37	BASE	287.76	8.51	18.50	0	0.51	0.00	33.38	0.00
10yr3d	NSLRWCD C37	BASE	288.01	8.51	18.50	0	0.51	0.00	33.39	0.00
10yr3d	NSLRWCD C37	BASE	288.26	8.51	18.50	0	0.51	0.00	33.40	0.00
10yr3d	NSLRWCD C37	BASE	288.51	8.50	18.50	0	0.51	0.00	33.41	0.00
10yr3d	NSLRWCD C37	BASE	288.76	8.50	18.50	0	0.51	0.00	33.42	0.00
10yr3d	NSLRWCD C37	BASE	289.01	8.50	18.50	0	0.51	0.00	33.43	0.00
10yr3d	NSLRWCD C37	BASE	289.26	8.50	18.50	0	0.51	0.00	33.44	0.00
10yr3d	NSLRWCD C37	BASE	289.51	8.49	18.50	0	0.51	0.00	33.45	0.00
10yr3d	NSLRWCD C37	BASE	289.76	8.49	18.50	0	0.51	0.00	33.46	0.00
10yr3d	NSLRWCD C37	BASE	290.01	8.49	18.50	0	0.51	0.00	33.47	0.00
10yr3d	NSLRWCD C37	BASE	290.26	8.49	18.50	0	0.51	0.00	33.48	0.00
10yr3d	NSLRWCD C37	BASE	290.51	8.48	18.50	0	0.51	0.00	33.49	0.00
10yr3d	NSLRWCD C37	BASE	290.76	8.48	18.50	0	0.50	0.00	33.51	0.00
10yr3d	NSLRWCD C37	BASE	291.01	8.48	18.50	0	0.50	0.00	33.52	0.00
10yr3d	NSLRWCD C37	BASE	291.26	8.48	18.50	0	0.50	0.00	33.53	0.00
10yr3d	NSLRWCD C37	BASE	291.51	8.47	18.50	0	0.50	0.00	33.54	0.00
10yr3d	NSLRWCD C37	BASE	291.76	8.47	18.50	0	0.50	0.00	33.55	0.00
10yr3d	NSLRWCD C37	BASE	292.01	8.47	18.50	0	0.50	0.00	33.56	0.00
10yr3d	NSLRWCD C37	BASE	292.26	8.47	18.50	0	0.50	0.00	33.57	0.00
10yr3d	NSLRWCD C37	BASE	292.51	8.46	18.50	0	0.50	0.00	33.58	0.00
10yr3d	NSLRWCD C37	BASE	292.76	8.46	18.50	0	0.50	0.00	33.59	0.00
10yr3d	NSLRWCD C37	BASE	293.01	8.46	18.50	0	0.50	0.00	33.60	0.00
10yr3d	NSLRWCD C37	BASE	293.26	8.46	18.50	0	0.50	0.00	33.61	0.00
10yr3d	NSLRWCD C37	BASE	293.51	8.45	18.50	0	0.50	0.00	33.62	0.00
10yr3d	NSLRWCD C37	BASE	293.76	8.45	18.50	0	0.50	0.00	33.63	0.00
10yr3d	NSLRWCD C37	BASE	294.01	8.45	18.50	0	0.50	0.00	33.64	0.00
10yr3d	NSLRWCD C37	BASE	294.26	8.45	18.50	0	0.50	0.00	33.65	0.00
10yr3d	NSLRWCD C37	BASE	294.51	8.44	18.50	0	0.50	0.00	33.66	0.00
10yr3d	NSLRWCD C37	BASE	294.76	8.44	18.50	0	0.50	0.00	33.67	0.00
10yr3d	NSLRWCD C37	BASE	295.01	8.44	18.50	0	0.50	0.00	33.68	0.00
10yr3d	NSLRWCD C37	BASE	295.26	8.44	18.50	0	0.50	0.00	33.69	0.00
10yr3d	NSLRWCD C37	BASE	295.51	8.43	18.50	0	0.50	0.00	33.70	0.00
10yr3d	NSLRWCD C37	BASE	295.76	8.43	18.50	0	0.50	0.00	33.71	0.00
10yr3d	NSLRWCD C37	BASE	296.01	8.43	18.50	0	0.50	0.00	33.72	0.00
10yr3d	NSLRWCD C37	BASE	296.26	8.43	18.50	0	0.50	0.00	33.73	0.00
10yr3d	NSLRWCD C37	BASE	296.51	8.42	18.50	0	0.50	0.00	33.74	0.00
10yr3d	NSLRWCD C37	BASE	296.76	8.42	18.50	0	0.50	0.00	33.75	0.00
10yr3d	NSLRWCD C37	BASE	297.01	8.42	18.50	0	0.50	0.00	33.76	0.00
10yr3d	NSLRWCD C37	BASE	297.26	8.42	18.50	0	0.50	0.00	33.77	0.00
10yr3d	NSLRWCD C37	BASE	297.51	8.41	18.50	0	0.50	0.00	33.78	0.00
10yr3d	NSLRWCD C37	BASE	297.76	8.41	18.50	0	0.50	0.00	33.79	0.00
10yr3d	NSLRWCD C37	BASE	298.01	8.41	18.50	0	0.50	0.00	33.81	0.00
10yr3d	NSLRWCD C37	BASE	298.26	8.41	18.50	0	0.50	0.00	33.82	0.00
10yr3d	NSLRWCD C37	BASE	298.51	8.40	18.50	0	0.50	0.00	33.83	0.00
10yr3d	NSLRWCD C37	BASE	298.76	8.40	18.50	0	0.50	0.00	33.84	0.00
10yr3d	NSLRWCD C37	BASE	299.01	8.40	18.50	0	0.50	0.00	33.85	0.00
10yr3d	NSLRWCD C37	BASE	299.26	8.40	18.50	0	0.50	0.00	33.86	0.00
10yr3d	NSLRWCD C37	BASE	299.51	8.39	18.50	0	0.50	0.00	33.87	0.00
10yr3d	NSLRWCD C37	BASE	299.76	8.39	18.50	0	0.50	0.00	33.88	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	300.01	8.39	18.50	0	0.50	0.00	33.89	0.00
10yr3d	NSLRWCD C37	BASE	300.26	8.39	18.50	0	0.50	0.00	33.90	0.00
10yr3d	NSLRWCD C37	BASE	300.51	8.38	18.50	0	0.50	0.00	33.91	0.00
10yr3d	NSLRWCD C37	BASE	300.76	8.38	18.50	0	0.50	0.00	33.92	0.00
10yr3d	NSLRWCD C37	BASE	301.01	8.38	18.50	0	0.50	0.00	33.93	0.00
10yr3d	NSLRWCD C37	BASE	301.26	8.38	18.50	0	0.49	0.00	33.94	0.00
10yr3d	NSLRWCD C37	BASE	301.51	8.37	18.50	0	0.49	0.00	33.95	0.00
10yr3d	NSLRWCD C37	BASE	301.76	8.37	18.50	0	0.49	0.00	33.96	0.00
10yr3d	NSLRWCD C37	BASE	302.01	8.37	18.50	0	0.49	0.00	33.97	0.00
10yr3d	NSLRWCD C37	BASE	302.26	8.37	18.50	0	0.49	0.00	33.98	0.00
10yr3d	NSLRWCD C37	BASE	302.51	8.36	18.50	0	0.49	0.00	33.99	0.00
10yr3d	NSLRWCD C37	BASE	302.76	8.36	18.50	0	0.49	0.00	34.00	0.00
10yr3d	NSLRWCD C37	BASE	303.01	8.36	18.50	0	0.49	0.00	34.01	0.00
10yr3d	NSLRWCD C37	BASE	303.26	8.36	18.50	0	0.49	0.00	34.02	0.00
10yr3d	NSLRWCD C37	BASE	303.51	8.35	18.50	0	0.49	0.00	34.03	0.00
10yr3d	NSLRWCD C37	BASE	303.76	8.35	18.50	0	0.49	0.00	34.04	0.00
10yr3d	NSLRWCD C37	BASE	304.01	8.35	18.50	0	0.49	0.00	34.05	0.00
10yr3d	NSLRWCD C37	BASE	304.26	8.35	18.50	0	0.49	0.00	34.06	0.00
10yr3d	NSLRWCD C37	BASE	304.51	8.34	18.50	0	0.49	0.00	34.07	0.00
10yr3d	NSLRWCD C37	BASE	304.76	8.34	18.50	0	0.49	0.00	34.08	0.00
10yr3d	NSLRWCD C37	BASE	305.01	8.34	18.50	0	0.49	0.00	34.09	0.00
10yr3d	NSLRWCD C37	BASE	305.26	8.34	18.50	0	0.49	0.00	34.10	0.00
10yr3d	NSLRWCD C37	BASE	305.51	8.33	18.50	0	0.49	0.00	34.11	0.00
10yr3d	NSLRWCD C37	BASE	305.76	8.33	18.50	0	0.49	0.00	34.12	0.00
10yr3d	NSLRWCD C37	BASE	306.01	8.33	18.50	0	0.49	0.00	34.13	0.00
10yr3d	NSLRWCD C37	BASE	306.26	8.32	18.50	0	0.49	0.00	34.14	0.00
10yr3d	NSLRWCD C37	BASE	306.51	8.32	18.50	0	0.49	0.00	34.15	0.00
10yr3d	NSLRWCD C37	BASE	306.76	8.32	18.50	0	0.49	0.00	34.16	0.00
10yr3d	NSLRWCD C37	BASE	307.01	8.32	18.50	0	0.49	0.00	34.17	0.00
10yr3d	NSLRWCD C37	BASE	307.26	8.31	18.50	0	0.49	0.00	34.18	0.00
10yr3d	NSLRWCD C37	BASE	307.51	8.31	18.50	0	0.49	0.00	34.19	0.00
10yr3d	NSLRWCD C37	BASE	307.76	8.31	18.50	0	0.49	0.00	34.20	0.00
10yr3d	NSLRWCD C37	BASE	308.01	8.31	18.50	0	0.49	0.00	34.21	0.00
10yr3d	NSLRWCD C37	BASE	308.26	8.30	18.50	0	0.49	0.00	34.22	0.00
10yr3d	NSLRWCD C37	BASE	308.51	8.30	18.50	0	0.49	0.00	34.23	0.00
10yr3d	NSLRWCD C37	BASE	308.76	8.30	18.50	0	0.49	0.00	34.24	0.00
10yr3d	NSLRWCD C37	BASE	309.01	8.30	18.50	0	0.49	0.00	34.25	0.00
10yr3d	NSLRWCD C37	BASE	309.26	8.29	18.50	0	0.49	0.00	34.26	0.00
10yr3d	NSLRWCD C37	BASE	309.51	8.29	18.50	0	0.49	0.00	34.27	0.00
10yr3d	NSLRWCD C37	BASE	309.76	8.29	18.50	0	0.49	0.00	34.28	0.00
10yr3d	NSLRWCD C37	BASE	310.01	8.29	18.50	0	0.49	0.00	34.29	0.00
10yr3d	NSLRWCD C37	BASE	310.26	8.28	18.50	0	0.49	0.00	34.30	0.00
10yr3d	NSLRWCD C37	BASE	310.51	8.28	18.50	0	0.49	0.00	34.31	0.00
10yr3d	NSLRWCD C37	BASE	310.76	8.28	18.50	0	0.49	0.00	34.32	0.00
10yr3d	NSLRWCD C37	BASE	311.01	8.28	18.50	0	0.48	0.00	34.33	0.00
10yr3d	NSLRWCD C37	BASE	311.26	8.27	18.50	0	0.48	0.00	34.34	0.00
10yr3d	NSLRWCD C37	BASE	311.51	8.27	18.50	0	0.48	0.00	34.35	0.00
10yr3d	NSLRWCD C37	BASE	311.76	8.27	18.50	0	0.48	0.00	34.36	0.00
10yr3d	NSLRWCD C37	BASE	312.01	8.27	18.50	0	0.48	0.00	34.37	0.00
10yr3d	NSLRWCD C37	BASE	312.26	8.26	18.50	0	0.48	0.00	34.38	0.00
10yr3d	NSLRWCD C37	BASE	312.51	8.26	18.50	0	0.48	0.00	34.39	0.00
10yr3d	NSLRWCD C37	BASE	312.76	8.26	18.50	0	0.48	0.00	34.40	0.00
10yr3d	NSLRWCD C37	BASE	313.01	8.26	18.50	0	0.48	0.00	34.41	0.00
10yr3d	NSLRWCD C37	BASE	313.26	8.25	18.50	0	0.48	0.00	34.42	0.00
10yr3d	NSLRWCD C37	BASE	313.51	8.25	18.50	0	0.48	0.00	34.43	0.00
10yr3d	NSLRWCD C37	BASE	313.76	8.25	18.50	0	0.48	0.00	34.44	0.00
10yr3d	NSLRWCD C37	BASE	314.01	8.25	18.50	0	0.48	0.00	34.45	0.00
10yr3d	NSLRWCD C37	BASE	314.26	8.24	18.50	0	0.48	0.00	34.46	0.00
10yr3d	NSLRWCD C37	BASE	314.51	8.24	18.50	0	0.48	0.00	34.47	0.00
10yr3d	NSLRWCD C37	BASE	314.76	8.24	18.50	0	0.48	0.00	34.48	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	315.01	8.24	18.50	0	0.48	0.00	34.49	0.00
10yr3d	NSLRWCD C37	BASE	315.26	8.23	18.50	0	0.48	0.00	34.50	0.00
10yr3d	NSLRWCD C37	BASE	315.51	8.23	18.50	0	0.48	0.00	34.51	0.00
10yr3d	NSLRWCD C37	BASE	315.76	8.23	18.50	0	0.48	0.00	34.52	0.00
10yr3d	NSLRWCD C37	BASE	316.01	8.23	18.50	0	0.48	0.00	34.53	0.00
10yr3d	NSLRWCD C37	BASE	316.26	8.22	18.50	0	0.48	0.00	34.54	0.00
10yr3d	NSLRWCD C37	BASE	316.51	8.22	18.50	0	0.48	0.00	34.55	0.00
10yr3d	NSLRWCD C37	BASE	316.76	8.22	18.50	0	0.48	0.00	34.56	0.00
10yr3d	NSLRWCD C37	BASE	317.01	8.22	18.50	0	0.48	0.00	34.57	0.00
10yr3d	NSLRWCD C37	BASE	317.26	8.21	18.50	0	0.48	0.00	34.58	0.00
10yr3d	NSLRWCD C37	BASE	317.51	8.21	18.50	0	0.48	0.00	34.59	0.00
10yr3d	NSLRWCD C37	BASE	317.76	8.21	18.50	0	0.48	0.00	34.60	0.00
10yr3d	NSLRWCD C37	BASE	318.01	8.21	18.50	0	0.48	0.00	34.61	0.00
10yr3d	NSLRWCD C37	BASE	318.26	8.20	18.50	0	0.48	0.00	34.62	0.00
10yr3d	NSLRWCD C37	BASE	318.51	8.20	18.50	0	0.48	0.00	34.63	0.00
10yr3d	NSLRWCD C37	BASE	318.76	8.20	18.50	0	0.48	0.00	34.64	0.00
10yr3d	NSLRWCD C37	BASE	319.01	8.20	18.50	0	0.48	0.00	34.65	0.00
10yr3d	NSLRWCD C37	BASE	319.26	8.19	18.50	0	0.48	0.00	34.66	0.00
10yr3d	NSLRWCD C37	BASE	319.51	8.19	18.50	0	0.47	0.00	34.67	0.00
10yr3d	NSLRWCD C37	BASE	319.76	8.19	18.50	0	0.47	0.00	34.68	0.00
10yr3d	NSLRWCD C37	BASE	320.01	8.19	18.50	0	0.47	0.00	34.69	0.00
10yr3d	NSLRWCD C37	BASE	320.26	8.18	18.50	0	0.47	0.00	34.70	0.00
10yr3d	NSLRWCD C37	BASE	320.51	8.18	18.50	0	0.47	0.00	34.71	0.00
10yr3d	NSLRWCD C37	BASE	320.76	8.18	18.50	0	0.47	0.00	34.72	0.00
10yr3d	NSLRWCD C37	BASE	321.01	8.18	18.50	0	0.47	0.00	34.73	0.00
10yr3d	NSLRWCD C37	BASE	321.26	8.17	18.50	0	0.47	0.00	34.74	0.00
10yr3d	NSLRWCD C37	BASE	321.51	8.17	18.50	0	0.47	0.00	34.75	0.00
10yr3d	NSLRWCD C37	BASE	321.76	8.17	18.50	0	0.47	0.00	34.76	0.00
10yr3d	NSLRWCD C37	BASE	322.01	8.17	18.50	0	0.47	0.00	34.77	0.00
10yr3d	NSLRWCD C37	BASE	322.26	8.16	18.50	0	0.47	0.00	34.78	0.00
10yr3d	NSLRWCD C37	BASE	322.51	8.16	18.50	0	0.47	0.00	34.79	0.00
10yr3d	NSLRWCD C37	BASE	322.76	8.16	18.50	0	0.47	0.00	34.80	0.00
10yr3d	NSLRWCD C37	BASE	323.01	8.16	18.50	0	0.47	0.00	34.81	0.00
10yr3d	NSLRWCD C37	BASE	323.26	8.15	18.50	0	0.47	0.00	34.82	0.00
10yr3d	NSLRWCD C37	BASE	323.51	8.15	18.50	0	0.47	0.00	34.83	0.00
10yr3d	NSLRWCD C37	BASE	323.76	8.15	18.50	0	0.47	0.00	34.84	0.00
10yr3d	NSLRWCD C37	BASE	324.01	8.14	18.50	0	0.47	0.00	34.85	0.00
10yr3d	NSLRWCD C37	BASE	324.26	8.14	18.50	0	0.47	0.00	34.86	0.00
10yr3d	NSLRWCD C37	BASE	324.51	8.14	18.50	0	0.47	0.00	34.87	0.00
10yr3d	NSLRWCD C37	BASE	324.76	8.14	18.50	0	0.47	0.00	34.88	0.00
10yr3d	NSLRWCD C37	BASE	325.01	8.13	18.50	0	0.47	0.00	34.88	0.00
10yr3d	NSLRWCD C37	BASE	325.26	8.13	18.50	0	0.47	0.00	34.89	0.00
10yr3d	NSLRWCD C37	BASE	325.51	8.13	18.50	0	0.47	0.00	34.90	0.00
10yr3d	NSLRWCD C37	BASE	325.76	8.13	18.50	0	0.47	0.00	34.91	0.00
10yr3d	NSLRWCD C37	BASE	326.01	8.12	18.50	0	0.47	0.00	34.92	0.00
10yr3d	NSLRWCD C37	BASE	326.26	8.12	18.50	0	0.47	0.00	34.93	0.00
10yr3d	NSLRWCD C37	BASE	326.51	8.12	18.50	0	0.47	0.00	34.94	0.00
10yr3d	NSLRWCD C37	BASE	326.76	8.12	18.50	0	0.46	0.00	34.95	0.00
10yr3d	NSLRWCD C37	BASE	327.01	8.11	18.50	0	0.46	0.00	34.96	0.00
10yr3d	NSLRWCD C37	BASE	327.26	8.11	18.50	0	0.46	0.00	34.97	0.00
10yr3d	NSLRWCD C37	BASE	327.51	8.11	18.50	0	0.46	0.00	34.98	0.00
10yr3d	NSLRWCD C37	BASE	327.76	8.11	18.50	0	0.46	0.00	34.99	0.00
10yr3d	NSLRWCD C37	BASE	328.01	8.10	18.50	0	0.46	0.00	35.00	0.00
10yr3d	NSLRWCD C37	BASE	328.26	8.10	18.50	0	0.46	0.00	35.01	0.00
10yr3d	NSLRWCD C37	BASE	328.51	8.10	18.50	0	0.46	0.00	35.02	0.00
10yr3d	NSLRWCD C37	BASE	328.76	8.10	18.50	0	0.46	0.00	35.03	0.00
10yr3d	NSLRWCD C37	BASE	329.01	8.09	18.50	0	0.46	0.00	35.04	0.00
10yr3d	NSLRWCD C37	BASE	329.26	8.09	18.50	0	0.46	0.00	35.05	0.00
10yr3d	NSLRWCD C37	BASE	329.51	8.09	18.50	0	0.46	0.00	35.06	0.00
10yr3d	NSLRWCD C37	BASE	329.76	8.09	18.50	0	0.46	0.00	35.07	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	330.01	8.08	18.50	0	0.46	0.00	35.08	0.00
10yr3d	NSLRWCD C37	BASE	330.26	8.08	18.50	0	0.46	0.00	35.09	0.00
10yr3d	NSLRWCD C37	BASE	330.51	8.08	18.50	0	0.46	0.00	35.10	0.00
10yr3d	NSLRWCD C37	BASE	330.76	8.08	18.50	0	0.46	0.00	35.10	0.00
10yr3d	NSLRWCD C37	BASE	331.01	8.07	18.50	0	0.46	0.00	35.11	0.00
10yr3d	NSLRWCD C37	BASE	331.26	8.07	18.50	0	0.46	0.00	35.12	0.00
10yr3d	NSLRWCD C37	BASE	331.51	8.07	18.50	0	0.46	0.00	35.13	0.00
10yr3d	NSLRWCD C37	BASE	331.76	8.07	18.50	0	0.46	0.00	35.14	0.00
10yr3d	NSLRWCD C37	BASE	332.01	8.06	18.50	0	0.46	0.00	35.15	0.00
10yr3d	NSLRWCD C37	BASE	332.26	8.06	18.50	0	0.46	0.00	35.16	0.00
10yr3d	NSLRWCD C37	BASE	332.51	8.06	18.50	0	0.46	0.00	35.17	0.00
10yr3d	NSLRWCD C37	BASE	332.76	8.06	18.50	0	0.46	0.00	35.18	0.00
10yr3d	NSLRWCD C37	BASE	333.01	8.05	18.50	0	0.46	0.00	35.19	0.00
10yr3d	NSLRWCD C37	BASE	333.26	8.05	18.50	0	0.46	0.00	35.20	0.00
10yr3d	NSLRWCD C37	BASE	333.51	8.05	18.50	0	0.45	0.00	35.21	0.00
10yr3d	NSLRWCD C37	BASE	333.76	8.05	18.50	0	0.45	0.00	35.22	0.00
10yr3d	NSLRWCD C37	BASE	334.01	8.04	18.50	0	0.45	0.00	35.23	0.00
10yr3d	NSLRWCD C37	BASE	334.26	8.04	18.50	0	0.45	0.00	35.24	0.00
10yr3d	NSLRWCD C37	BASE	334.51	8.04	18.50	0	0.45	0.00	35.25	0.00
10yr3d	NSLRWCD C37	BASE	334.76	8.04	18.50	0	0.45	0.00	35.26	0.00
10yr3d	NSLRWCD C37	BASE	335.01	8.03	18.50	0	0.45	0.00	35.27	0.00
10yr3d	NSLRWCD C37	BASE	335.26	8.03	18.50	0	0.45	0.00	35.27	0.00
10yr3d	NSLRWCD C37	BASE	335.51	8.03	18.50	0	0.45	0.00	35.28	0.00
10yr3d	NSLRWCD C37	BASE	335.76	8.03	18.50	0	0.45	0.00	35.29	0.00
10yr3d	NSLRWCD C37	BASE	336.01	8.02	18.50	0	0.45	0.00	35.30	0.00
10yr3d	NSLRWCD C37	BASE	336.26	8.02	18.50	0	0.45	0.00	35.31	0.00
10yr3d	NSLRWCD C37	BASE	336.51	8.02	18.50	0	0.45	0.00	35.32	0.00
10yr3d	NSLRWCD C37	BASE	336.76	8.02	18.50	0	0.45	0.00	35.33	0.00
10yr3d	NSLRWCD C37	BASE	337.01	8.01	18.50	0	0.45	0.00	35.34	0.00
10yr3d	NSLRWCD C37	BASE	337.26	8.01	18.50	0	0.45	0.00	35.35	0.00
10yr3d	NSLRWCD C37	BASE	337.51	8.01	18.50	0	0.45	0.00	35.36	0.00
10yr3d	NSLRWCD C37	BASE	337.76	8.01	18.50	0	0.45	0.00	35.37	0.00
10yr3d	NSLRWCD C37	BASE	338.01	8.00	18.50	0	0.45	0.00	35.38	0.00
10yr3d	NSLRWCD C37	BASE	338.26	8.00	18.50	0	0.45	0.00	35.39	0.00
10yr3d	NSLRWCD C37	BASE	338.51	8.00	18.50	0	0.45	0.00	35.40	0.00
10yr3d	NSLRWCD C37	BASE	338.76	8.00	18.50	0	0.45	0.00	35.40	0.00
10yr3d	NSLRWCD C37	BASE	339.01	7.99	18.50	0	0.45	0.00	35.41	0.00
10yr3d	NSLRWCD C37	BASE	339.26	7.99	18.50	0	0.45	0.00	35.42	0.00
10yr3d	NSLRWCD C37	BASE	339.51	7.99	18.50	0	0.45	0.00	35.43	0.00
10yr3d	NSLRWCD C37	BASE	339.76	7.99	18.50	0	0.44	0.00	35.44	0.00
10yr3d	NSLRWCD C37	BASE	340.01	7.98	18.50	0	0.44	0.00	35.45	0.00
10yr3d	NSLRWCD C37	BASE	340.26	7.98	18.50	0	0.44	0.00	35.46	0.00
10yr3d	NSLRWCD C37	BASE	340.51	7.98	18.50	0	0.44	0.00	35.47	0.00
10yr3d	NSLRWCD C37	BASE	340.76	7.98	18.50	0	0.44	0.00	35.48	0.00
10yr3d	NSLRWCD C37	BASE	341.01	7.97	18.50	0	0.44	0.00	35.49	0.00
10yr3d	NSLRWCD C37	BASE	341.26	7.97	18.50	0	0.44	0.00	35.50	0.00
10yr3d	NSLRWCD C37	BASE	341.51	7.97	18.50	0	0.44	0.00	35.51	0.00
10yr3d	NSLRWCD C37	BASE	341.76	7.96	18.50	0	0.44	0.00	35.51	0.00
10yr3d	NSLRWCD C37	BASE	342.01	7.96	18.50	0	0.44	0.00	35.52	0.00
10yr3d	NSLRWCD C37	BASE	342.26	7.96	18.50	0	0.44	0.00	35.53	0.00
10yr3d	NSLRWCD C37	BASE	342.51	7.96	18.50	0	0.44	0.00	35.54	0.00
10yr3d	NSLRWCD C37	BASE	342.76	7.95	18.50	0	0.44	0.00	35.55	0.00
10yr3d	NSLRWCD C37	BASE	343.01	7.95	18.50	0	0.44	0.00	35.56	0.00
10yr3d	NSLRWCD C37	BASE	343.26	7.95	18.50	0	0.44	0.00	35.57	0.00
10yr3d	NSLRWCD C37	BASE	343.51	7.95	18.50	0	0.44	0.00	35.58	0.00
10yr3d	NSLRWCD C37	BASE	343.76	7.94	18.50	0	0.44	0.00	35.59	0.00
10yr3d	NSLRWCD C37	BASE	344.01	7.94	18.50	0	0.44	0.00	35.60	0.00
10yr3d	NSLRWCD C37	BASE	344.26	7.94	18.50	0	0.44	0.00	35.61	0.00
10yr3d	NSLRWCD C37	BASE	344.51	7.94	18.50	0	0.44	0.00	35.61	0.00
10yr3d	NSLRWCD C37	BASE	344.76	7.93	18.50	0	0.44	0.00	35.62	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	345.01	7.93	18.50	0	0.44	0.00	35.63	0.00
10yr3d	NSLRWCD C37	BASE	345.26	7.93	18.50	0	0.44	0.00	35.64	0.00
10yr3d	NSLRWCD C37	BASE	345.51	7.93	18.50	0	0.43	0.00	35.65	0.00
10yr3d	NSLRWCD C37	BASE	345.76	7.92	18.50	0	0.43	0.00	35.66	0.00
10yr3d	NSLRWCD C37	BASE	346.01	7.92	18.50	0	0.43	0.00	35.67	0.00
10yr3d	NSLRWCD C37	BASE	346.26	7.92	18.50	0	0.43	0.00	35.68	0.00
10yr3d	NSLRWCD C37	BASE	346.51	7.92	18.50	0	0.43	0.00	35.69	0.00
10yr3d	NSLRWCD C37	BASE	346.76	7.91	18.50	0	0.43	0.00	35.69	0.00
10yr3d	NSLRWCD C37	BASE	347.01	7.91	18.50	0	0.43	0.00	35.70	0.00
10yr3d	NSLRWCD C37	BASE	347.26	7.91	18.50	0	0.43	0.00	35.71	0.00
10yr3d	NSLRWCD C37	BASE	347.51	7.91	18.50	0	0.43	0.00	35.72	0.00
10yr3d	NSLRWCD C37	BASE	347.76	7.90	18.50	0	0.43	0.00	35.73	0.00
10yr3d	NSLRWCD C37	BASE	348.01	7.90	18.50	0	0.43	0.00	35.74	0.00
10yr3d	NSLRWCD C37	BASE	348.26	7.90	18.50	0	0.43	0.00	35.75	0.00
10yr3d	NSLRWCD C37	BASE	348.51	7.90	18.50	0	0.43	0.00	35.76	0.00
10yr3d	NSLRWCD C37	BASE	348.76	7.89	18.50	0	0.43	0.00	35.77	0.00
10yr3d	NSLRWCD C37	BASE	349.01	7.89	18.50	0	0.43	0.00	35.78	0.00
10yr3d	NSLRWCD C37	BASE	349.26	7.89	18.50	0	0.43	0.00	35.78	0.00
10yr3d	NSLRWCD C37	BASE	349.51	7.89	18.50	0	0.43	0.00	35.79	0.00
10yr3d	NSLRWCD C37	BASE	349.76	7.88	18.50	0	0.43	0.00	35.80	0.00
10yr3d	NSLRWCD C37	BASE	350.01	7.88	18.50	0	0.43	0.00	35.81	0.00
10yr3d	NSLRWCD C37	BASE	350.26	7.88	18.50	0	0.43	0.00	35.82	0.00
10yr3d	NSLRWCD C37	BASE	350.51	7.88	18.50	0	0.43	0.00	35.83	0.00
10yr3d	NSLRWCD C37	BASE	350.76	7.87	18.50	0	0.42	0.00	35.84	0.00
10yr3d	NSLRWCD C37	BASE	351.01	7.87	18.50	0	0.42	0.00	35.85	0.00
10yr3d	NSLRWCD C37	BASE	351.26	7.87	18.50	0	0.42	0.00	35.85	0.00
10yr3d	NSLRWCD C37	BASE	351.51	7.87	18.50	0	0.42	0.00	35.86	0.00
10yr3d	NSLRWCD C37	BASE	351.76	7.86	18.50	0	0.42	0.00	35.87	0.00
10yr3d	NSLRWCD C37	BASE	352.01	7.86	18.50	0	0.42	0.00	35.88	0.00
10yr3d	NSLRWCD C37	BASE	352.26	7.86	18.50	0	0.42	0.00	35.89	0.00
10yr3d	NSLRWCD C37	BASE	352.51	7.86	18.50	0	0.42	0.00	35.90	0.00
10yr3d	NSLRWCD C37	BASE	352.76	7.85	18.50	0	0.42	0.00	35.91	0.00
10yr3d	NSLRWCD C37	BASE	353.01	7.85	18.50	0	0.42	0.00	35.92	0.00
10yr3d	NSLRWCD C37	BASE	353.26	7.85	18.50	0	0.42	0.00	35.92	0.00
10yr3d	NSLRWCD C37	BASE	353.51	7.85	18.50	0	0.42	0.00	35.93	0.00
10yr3d	NSLRWCD C37	BASE	353.76	7.84	18.50	0	0.42	0.00	35.94	0.00
10yr3d	NSLRWCD C37	BASE	354.01	7.84	18.50	0	0.42	0.00	35.95	0.00
10yr3d	NSLRWCD C37	BASE	354.26	7.84	18.50	0	0.42	0.00	35.96	0.00
10yr3d	NSLRWCD C37	BASE	354.51	7.84	18.50	0	0.42	0.00	35.97	0.00
10yr3d	NSLRWCD C37	BASE	354.76	7.83	18.50	0	0.42	0.00	35.98	0.00
10yr3d	NSLRWCD C37	BASE	355.01	7.83	18.50	0	0.42	0.00	35.98	0.00
10yr3d	NSLRWCD C37	BASE	355.26	7.83	18.50	0	0.42	0.00	35.99	0.00
10yr3d	NSLRWCD C37	BASE	355.51	7.83	18.50	0	0.42	0.00	36.00	0.00
10yr3d	NSLRWCD C37	BASE	355.76	7.82	18.50	0	0.41	0.00	36.01	0.00
10yr3d	NSLRWCD C37	BASE	356.01	7.82	18.50	0	0.41	0.00	36.02	0.00
10yr3d	NSLRWCD C37	BASE	356.26	7.82	18.50	0	0.41	0.00	36.03	0.00
10yr3d	NSLRWCD C37	BASE	356.51	7.82	18.50	0	0.41	0.00	36.04	0.00
10yr3d	NSLRWCD C37	BASE	356.76	7.81	18.50	0	0.41	0.00	36.04	0.00
10yr3d	NSLRWCD C37	BASE	357.01	7.81	18.50	0	0.41	0.00	36.05	0.00
10yr3d	NSLRWCD C37	BASE	357.26	7.81	18.50	0	0.41	0.00	36.06	0.00
10yr3d	NSLRWCD C37	BASE	357.51	7.81	18.50	0	0.41	0.00	36.07	0.00
10yr3d	NSLRWCD C37	BASE	357.76	7.80	18.50	0	0.41	0.00	36.08	0.00
10yr3d	NSLRWCD C37	BASE	358.01	7.80	18.50	0	0.41	0.00	36.09	0.00
10yr3d	NSLRWCD C37	BASE	358.26	7.80	18.50	0	0.41	0.00	36.10	0.00
10yr3d	NSLRWCD C37	BASE	358.51	7.80	18.50	0	0.41	0.00	36.10	0.00
10yr3d	NSLRWCD C37	BASE	358.76	7.79	18.50	0	0.41	0.00	36.11	0.00
10yr3d	NSLRWCD C37	BASE	359.01	7.79	18.50	0	0.41	0.00	36.12	0.00
10yr3d	NSLRWCD C37	BASE	359.26	7.79	18.50	0	0.41	0.00	36.13	0.00
10yr3d	NSLRWCD C37	BASE	359.51	7.79	18.50	0	0.41	0.00	36.14	0.00
10yr3d	NSLRWCD C37	BASE	359.76	7.78	18.50	0	0.41	0.00	36.15	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	360.01	7.78	18.50	0	0.41	0.00	36.15	0.00
10yr3d	NSLRWCD C37	BASE	360.01	7.78	18.50	0	0.41	0.00	36.15	0.00

Appendix C - ICPR Routing
Developed Condition
Recovery Storm Events

ENGINEERING DESIGN & CONSTRUCTION, INC
CIVIL ENGINEERS & SURVEYORS SPECIALIZING IN LAND DEVELOPMENT

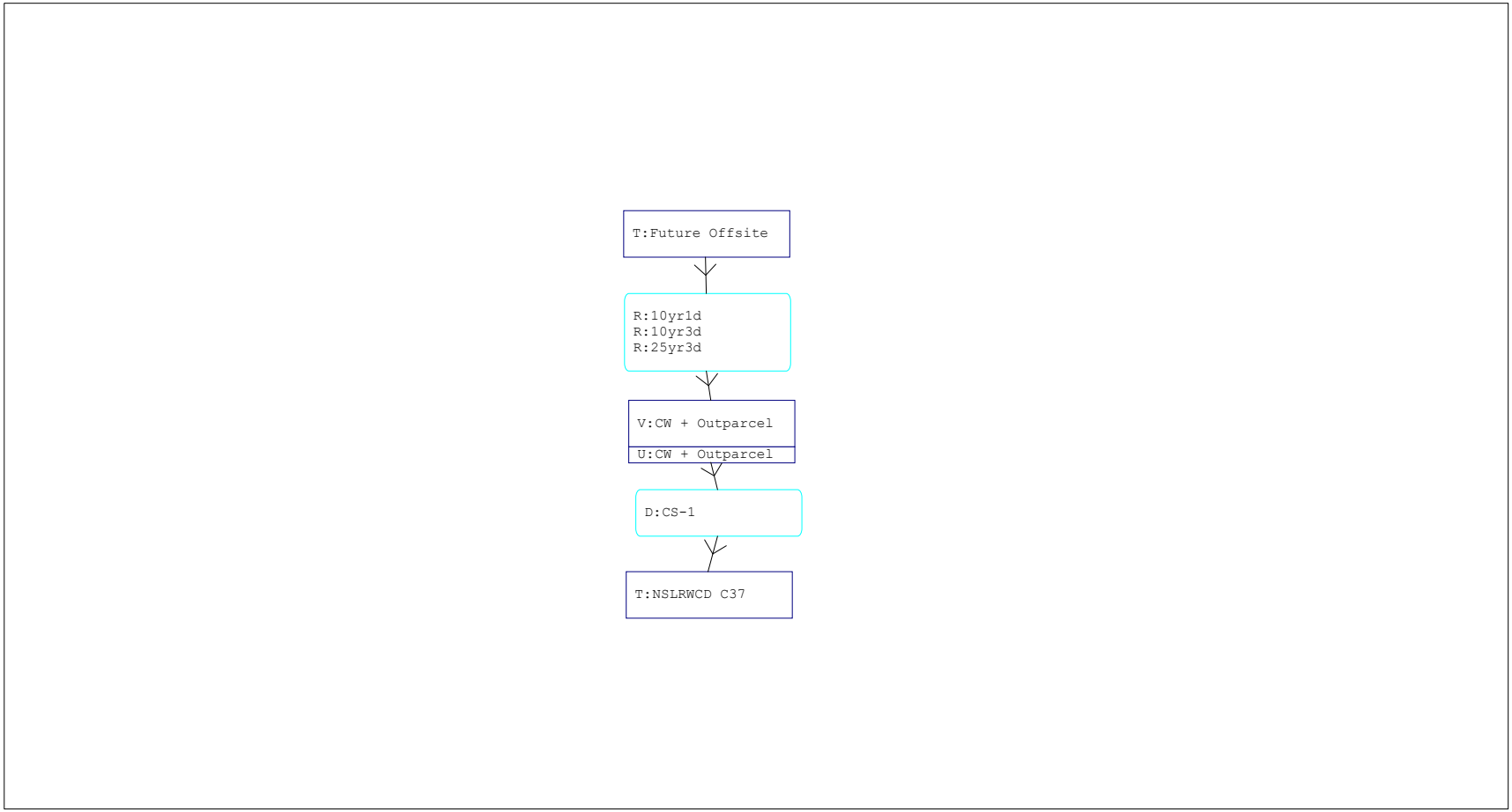
10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
772-462-2455

16-225 Camping World - Recovery Storm Routing
Nodal Diagram

Nodes
A Stage/Area
V Stage/Volume
T Time/Stage
M Manhole

Basins
O Overland Flow
U SCS Unit CN
S SBUH CN
Y SCS Unit GA
Z SBUH GA

Links
P Pipe
W Weir
C Channel
D Drop Structure
B Bridge
R Rating Curve
H Breach
E Percolation
F Filter
X Exfil Trench



Interconnected Channel and Pond Routing Model (ICPR) ©2002 Streamline Technologies, Inc.

==========
==== Basins ====
==========

Name: CW + Outparcel Node: CW + Outparcel Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 28.970 Time Shift(hrs): 0.00
Curve Number: 94.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

==========
==== Nodes ====
==========

Name: CW + Outparcel Base Flow(cfs): 0.000 Init Stage(ft): 11.100
Group: BASE Warn Stage(ft): 18.500
Type: Stage/Volume

Stage(ft)	Volume(af)
10.000	0.0000
10.500	1.6100
11.000	3.2600
11.500	4.9500
12.000	6.6700
12.500	8.4300
13.500	12.0700
14.500	16.0600
15.500	20.6900
16.500	27.4700
17.500	41.7200
18.500	64.4700

Name: Future Offsite Base Flow(cfs): 0.000 Init Stage(ft): 13.000
Group: Offsite Warn Stage(ft): 18.500
Type: Time/Stage

Time(hrs)	Stage(ft)
0.00	13.000
62.00	13.000
360.00	13.000

Name: NSLRWCD C37 Base Flow(cfs): 0.000 Init Stage(ft): 7.780
Group: BASE Warn Stage(ft): 18.500
Type: Time/Stage

Time(hrs)	Stage(ft)
0.00	7.780
62.00	7.780
360.00	7.780

==========
==== Operating Tables ====
==========

Name: 10yr1d Group: 10yr1d
Type: Rating Curve
Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
24.00	1.00
120.00	0.00

Name: 10yr3d Group: 10yr3d
Type: Rating Curve

Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
62.00	1.41
360.00	0.00

Name: 25yr3d Group: 25yr3d
Type: Rating Curve
Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
62.00	1.58
360.00	0.00

==========
==== Drop Structures ==========
==========

Name: CS-1 From Node: CW + Outparcel Length(ft): 35.00
Group: Outfalls To Node: NSLRWCD C37 Count: 1

	UPSTREAM	DOWNSTREAM		
Geometry:	Circular	Circular	Friction Equation:	Automatic
Span(in):	36.00	36.00	Solution Algorithm:	Most Restrictive
Rise(in):	36.00	36.00	Flow:	Both
Invert(ft):	8.650	8.440	Entrance Loss Coef:	0.000
Manning's N:	0.012000	0.012000	Exit Loss Coef:	1.000
Top Clip(in):	0.000	0.000	Outlet Ctrl Spec:	Use dc or tw
Bot Clip(in):	0.000	0.000	Inlet Ctrl Spec:	Use dc
			Solution Incs:	10

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Groove end projecting

*** Weir 1 of 4 for Drop Structure CS-1 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Circular	Orifice Disc Coef:	0.600
Span(in):	4.00	Invert(ft):	10.000
Rise(in):	4.00	Control Elev(ft):	10.000

*** Weir 2 of 4 for Drop Structure CS-1 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	8.00	Invert(ft):	11.600
Rise(in):	6.00	Control Elev(ft):	11.600

*** Weir 3 of 4 for Drop Structure CS-1 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	54.00	Invert(ft):	15.250
Rise(in):	6.00	Control Elev(ft):	15.250

*** Weir 4 of 4 for Drop Structure CS-1 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Horizontal	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	54.00	Invert(ft):	15.750
Rise(in):	18.00	Control Elev(ft):	15.750

```
================================================================================
==== Rating Curves =============================================================
================================================================================

         Name: 10yr1d              From Node: Future Offsite          Count: 1
        Group: 10yr1d                To Node: CW + Outparcel          Flow: Both

               TABLE           ELEV ON(ft)     ELEV OFF(ft)
           #1: 10yr1d          13.000          13.000
           #2:                 0.000           0.000
           #3:                 0.000           0.000
           #4:                 0.000           0.000



--------------------------------------------------------------------------------------------------------
         Name: 10yr3d              From Node: Future Offsite          Count: 1
        Group: 10yr3d                To Node: CW + Outparcel          Flow: Both

               TABLE           ELEV ON(ft)     ELEV OFF(ft)
           #1: 10yr3d          13.000          13.000
           #2:                 0.000           0.000
           #3:                 0.000           0.000
           #4:                 0.000           0.000



--------------------------------------------------------------------------------------------------------
         Name: 25yr3d              From Node: Future Offsite          Count: 1
        Group: 25yr3d                To Node: CW + Outparcel          Flow: Both

               TABLE           ELEV ON(ft)     ELEV OFF(ft)
           #1: 25yr3d          13.000          13.000
           #2:                 0.000           0.000
           #3:                 0.000           0.000
           #4:                 0.000           0.000



================================================================================
==== Hydrology Simulations =====================================================
================================================================================

          Name: 100yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\100yr3d.R32

       Override Defaults: Yes
    Storm Duration(hrs): 72.00
          Rainfall File: Sfwmd72
    Rainfall Amount(in): 12.23

Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         5.00

--------------------------------------------------------------------------------------------------------
          Name: 10yr1d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr1d.R32

       Override Defaults: Yes
    Storm Duration(hrs): 24.00
          Rainfall File: Scsiii
    Rainfall Amount(in): 6.00

Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         5.00

--------------------------------------------------------------------------------------------------------
          Name: 10yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr3d.R32

       Override Defaults: Yes
    Storm Duration(hrs): 72.00
          Rainfall File: Sfwmd72
    Rainfall Amount(in): 8.50

Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         5.00

--------------------------------------------------------------------------------------------------------
          Name: 25yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\25yr3d.R32

       Override Defaults: Yes
```

```
    Storm Duration(hrs): 72.00
          Rainfall File: Sfwmd72
    Rainfall Amount(in): 9.50

Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         5.00

================================================================================
==== Routing Simulations ======================================================
================================================================================

         Name: 100yr3d             Hydrology Sim: 100yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\100yr3d.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 360.00
     Min Calc Time(sec): 0.5000              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:


Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         15.000

Group           Run
--------------- -----
BASE            Yes
Offsite         Yes


--------------------------------------------------------------------------------------------------------
         Name: 10yr1d              Hydrology Sim: 10yr1d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr1d.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 360.00
     Min Calc Time(sec): 0.5000              Max Calc Time(sec): 60.0000
        Boundary Stages: 10yr1d                  Boundary Flows:


Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         15.000

Group           Run
--------------- -----
10yr1d          Yes
BASE            Yes
Offsite         Yes
Outfalls        Yes


--------------------------------------------------------------------------------------------------------
         Name: 10yr3d              Hydrology Sim: 10yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr3d.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 360.00
     Min Calc Time(sec): 0.5000              Max Calc Time(sec): 60.0000
        Boundary Stages: 10yr3d                  Boundary Flows:


Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         15.000

Group           Run
--------------- -----
10yr3d          Yes
BASE            Yes
Offsite         Yes
```

Outfalls Yes

Name: 25yr3d Hydrology Sim: 25yr3d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\25yr3d.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 360.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: 10yr3d Boundary Flows:

Time(hrs)	Print Inc(min)
360.000	15.000

Group	Run
25yr3d	Yes
BASE	Yes
Offsite	Yes
Outfalls	Yes

==== Boundary Conditions ====

Name: 10yr1d Node: NSLRWCD C37 Type: Stage

Time(hrs)	Stage(ft)
0.000	7.780
1.330	9.420
2.670	9.730
4.000	10.770
5.330	10.140
6.670	9.590
8.000	9.420
9.330	9.530
10.670	9.770
12.000	11.060
13.330	10.300
14.670	9.650
16.000	9.450
17.330	9.650
18.670	10.010
20.000	11.950
21.330	10.810
22.670	9.830
24.000	9.530
360.000	7.780

Name: 10yr3d Node: NSLRWCD C37 Type: Stage

Time(hrs)	Stage(ft)
0.000	7.780
4.000	10.580
8.000	10.950
12.000	12.060
16.000	11.360
20.000	10.760
24.000	10.580
28.000	10.700
32.000	10.960
36.000	12.390
40.000	11.540
44.000	10.830
48.000	10.610
52.000	10.830
56.000	11.230
60.000	13.370
64.000	12.110
68.000	11.020
72.000	10.700
360.000	7.780

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CW + Outparcel	BASE	100yr3d	73.00	16.68	18.50	0.0050	520942	60.00	155.99	0.00	0.00
CW + Outparcel	BASE	10yr1d	20.17	13.98	18.50	0.0050	176465	12.25	101.23	18.47	3.15
CW + Outparcel	BASE	10yr3d	68.21	15.32	18.50	0.0050	237336	60.00	109.13	68.24	4.10
CW + Outparcel	BASE	25yr3d	64.28	15.55	18.50	0.0050	258455	60.00	122.31	64.76	6.12
Future Offsite	Offsite	100yr3d	0.00	13.00	18.50	0.0000	0	0.00	0.00	0.00	0.00
Future Offsite	Offsite	10yr1d	0.00	13.00	18.50	0.0000	0	0.00	0.00	24.00	1.00
Future Offsite	Offsite	10yr3d	0.00	13.00	18.50	0.0000	0	0.00	0.00	62.01	1.41
Future Offsite	Offsite	25yr3d	0.00	13.00	18.50	0.0000	0	0.00	0.00	62.01	1.58
NSLRWCD C37	BASE	100yr3d	0.00	7.78	18.50	0.0000	0	0.00	0.00	0.00	0.00
NSLRWCD C37	BASE	10yr1d	20.00	11.95	18.50	0.0243	0	18.47	3.15	0.00	0.00
NSLRWCD C37	BASE	10yr3d	60.00	13.37	18.50	0.0117	0	68.24	4.10	0.00	0.00
NSLRWCD C37	BASE	25yr3d	60.00	13.37	18.50	0.0117	0	64.76	6.12	0.00	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	0.00	7.78	18.50	0	0.41	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	0.26	7.96	18.50	0	0.41	0.00	0.01	0.00
10yr3d	NSLRWCD C37	BASE	0.50	8.13	18.50	0	0.40	0.00	0.02	0.00
10yr3d	NSLRWCD C37	BASE	0.77	8.32	18.50	0	0.40	0.00	0.03	0.00
10yr3d	NSLRWCD C37	BASE	1.02	8.49	18.50	0	0.40	0.00	0.03	0.00
10yr3d	NSLRWCD C37	BASE	1.27	8.67	18.50	0	0.40	0.00	0.04	0.00
10yr3d	NSLRWCD C37	BASE	1.52	8.84	18.50	0	0.40	0.00	0.05	0.00
10yr3d	NSLRWCD C37	BASE	1.77	9.02	18.50	0	0.40	0.00	0.06	0.00
10yr3d	NSLRWCD C37	BASE	2.02	9.19	18.50	0	0.40	0.00	0.07	0.00
10yr3d	NSLRWCD C37	BASE	2.27	9.37	18.50	0	0.40	0.00	0.08	0.00
10yr3d	NSLRWCD C37	BASE	2.52	9.54	18.50	0	0.40	0.00	0.08	0.00
10yr3d	NSLRWCD C37	BASE	2.77	9.72	18.50	0	0.40	0.00	0.09	0.00
10yr3d	NSLRWCD C37	BASE	3.02	9.89	18.50	0	0.40	0.00	0.10	0.00
10yr3d	NSLRWCD C37	BASE	3.27	10.07	18.50	0	0.40	0.00	0.11	0.00
10yr3d	NSLRWCD C37	BASE	3.52	10.24	18.50	0	0.38	0.00	0.12	0.00
10yr3d	NSLRWCD C37	BASE	3.77	10.42	18.50	0	0.34	0.00	0.12	0.00
10yr3d	NSLRWCD C37	BASE	4.02	10.58	18.50	0	0.29	0.00	0.13	0.00
10yr3d	NSLRWCD C37	BASE	4.27	10.60	18.50	0	0.28	0.00	0.14	0.00
10yr3d	NSLRWCD C37	BASE	4.52	10.63	18.50	0	0.28	0.00	0.14	0.00
10yr3d	NSLRWCD C37	BASE	4.77	10.65	18.50	0	0.27	0.00	0.15	0.00
10yr3d	NSLRWCD C37	BASE	5.02	10.67	18.50	0	0.26	0.00	0.15	0.00
10yr3d	NSLRWCD C37	BASE	5.27	10.70	18.50	0	0.25	0.00	0.16	0.00
10yr3d	NSLRWCD C37	BASE	5.52	10.72	18.50	0	0.25	0.00	0.16	0.00
10yr3d	NSLRWCD C37	BASE	5.77	10.74	18.50	0	0.24	0.00	0.17	0.00
10yr3d	NSLRWCD C37	BASE	6.02	10.77	18.50	0	0.23	0.00	0.17	0.00
10yr3d	NSLRWCD C37	BASE	6.27	10.79	18.50	0	0.22	0.00	0.18	0.00
10yr3d	NSLRWCD C37	BASE	6.52	10.81	18.50	0	0.21	0.00	0.18	0.00
10yr3d	NSLRWCD C37	BASE	6.77	10.84	18.50	0	0.20	0.00	0.19	0.00
10yr3d	NSLRWCD C37	BASE	7.02	10.86	18.50	0	0.19	0.00	0.19	0.00
10yr3d	NSLRWCD C37	BASE	7.27	10.88	18.50	0	0.18	0.00	0.20	0.00
10yr3d	NSLRWCD C37	BASE	7.52	10.91	18.50	0	0.17	0.00	0.20	0.00
10yr3d	NSLRWCD C37	BASE	7.77	10.93	18.50	0	0.16	0.00	0.20	0.00
10yr3d	NSLRWCD C37	BASE	8.02	10.95	18.50	0	0.15	0.00	0.21	0.00
10yr3d	NSLRWCD C37	BASE	8.27	11.02	18.50	0	0.10	0.00	0.21	0.00
10yr3d	NSLRWCD C37	BASE	8.52	11.09	18.50	0	-0.03	0.00	0.21	0.00
10yr3d	NSLRWCD C37	BASE	8.77	11.16	18.50	0	-0.11	0.00	0.21	0.00
10yr3d	NSLRWCD C37	BASE	9.02	11.23	18.50	0	-0.15	0.00	0.20	0.00
10yr3d	NSLRWCD C37	BASE	9.27	11.30	18.50	0	-0.19	0.00	0.20	0.00
10yr3d	NSLRWCD C37	BASE	9.52	11.37	18.50	0	-0.21	0.00	0.20	0.00
10yr3d	NSLRWCD C37	BASE	9.77	11.44	18.50	0	-0.24	0.00	0.19	0.00
10yr3d	NSLRWCD C37	BASE	10.02	11.51	18.50	0	-0.26	0.00	0.19	0.00
10yr3d	NSLRWCD C37	BASE	10.27	11.58	18.50	0	-0.28	0.00	0.18	0.00
10yr3d	NSLRWCD C37	BASE	10.52	11.65	18.50	0	-0.32	0.00	0.18	0.00
10yr3d	NSLRWCD C37	BASE	10.77	11.72	18.50	0	-0.40	0.00	0.17	0.00
10yr3d	NSLRWCD C37	BASE	11.02	11.79	18.50	0	-0.50	0.00	0.16	0.00
10yr3d	NSLRWCD C37	BASE	11.27	11.86	18.50	0	-0.62	0.00	0.15	0.00
10yr3d	NSLRWCD C37	BASE	11.52	11.93	18.50	0	-0.75	0.00	0.13	0.00
10yr3d	NSLRWCD C37	BASE	11.77	12.00	18.50	0	-0.90	0.00	0.12	0.00
10yr3d	NSLRWCD C37	BASE	12.02	12.06	18.50	0	-1.04	0.00	0.10	0.00
10yr3d	NSLRWCD C37	BASE	12.27	12.01	18.50	0	-0.93	0.00	0.08	0.00
10yr3d	NSLRWCD C37	BASE	12.52	11.97	18.50	0	-0.84	0.00	0.06	0.00
10yr3d	NSLRWCD C37	BASE	12.77	11.93	18.50	0	-0.74	0.00	0.04	0.00
10yr3d	NSLRWCD C37	BASE	13.02	11.88	18.50	0	-0.65	0.00	0.03	0.00
10yr3d	NSLRWCD C37	BASE	13.27	11.84	18.50	0	-0.57	0.00	0.01	0.00
10yr3d	NSLRWCD C37	BASE	13.52	11.79	18.50	0	-0.49	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	13.77	11.75	18.50	0	-0.42	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	14.02	11.71	18.50	0	-0.35	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	14.27	11.66	18.50	0	-0.29	0.00	-0.02	0.00
10yr3d	NSLRWCD C37	BASE	14.52	11.62	18.50	0	-0.25	0.00	-0.03	0.00
10yr3d	NSLRWCD C37	BASE	14.77	11.58	18.50	0	-0.22	0.00	-0.03	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	15.02	11.53	18.50	0	-0.20	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	15.27	11.49	18.50	0	-0.18	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	15.52	11.44	18.50	0	-0.15	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	15.77	11.40	18.50	0	-0.12	0.00	-0.05	0.00
10yr3d	NSLRWCD C37	BASE	16.02	11.36	18.50	0	-0.07	0.00	-0.05	0.00
10yr3d	NSLRWCD C37	BASE	16.27	11.32	18.50	0	0.05	0.00	-0.05	0.00
10yr3d	NSLRWCD C37	BASE	16.52	11.28	18.50	0	0.10	0.00	-0.05	0.00
10yr3d	NSLRWCD C37	BASE	16.77	11.25	18.50	0	0.13	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	17.02	11.21	18.50	0	0.16	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	17.27	11.17	18.50	0	0.18	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	17.52	11.13	18.50	0	0.20	0.00	-0.03	0.00
10yr3d	NSLRWCD C37	BASE	17.77	11.10	18.50	0	0.22	0.00	-0.03	0.00
10yr3d	NSLRWCD C37	BASE	18.02	11.06	18.50	0	0.24	0.00	-0.02	0.00
10yr3d	NSLRWCD C37	BASE	18.27	11.02	18.50	0	0.25	0.00	-0.02	0.00
10yr3d	NSLRWCD C37	BASE	18.52	10.98	18.50	0	0.27	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	18.77	10.95	18.50	0	0.28	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	19.02	10.91	18.50	0	0.29	0.00	-0.00	0.00
10yr3d	NSLRWCD C37	BASE	19.27	10.87	18.50	0	0.31	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	19.52	10.83	18.50	0	0.32	0.00	0.01	0.00
10yr3d	NSLRWCD C37	BASE	19.77	10.80	18.50	0	0.33	0.00	0.02	0.00
10yr3d	NSLRWCD C37	BASE	20.02	10.76	18.50	0	0.34	0.00	0.02	0.00
10yr3d	NSLRWCD C37	BASE	20.27	10.75	18.50	0	0.35	0.00	0.03	0.00
10yr3d	NSLRWCD C37	BASE	20.52	10.74	18.50	0	0.35	0.00	0.04	0.00
10yr3d	NSLRWCD C37	BASE	20.77	10.73	18.50	0	0.35	0.00	0.05	0.00
10yr3d	NSLRWCD C37	BASE	21.02	10.71	18.50	0	0.36	0.00	0.05	0.00
10yr3d	NSLRWCD C37	BASE	21.27	10.70	18.50	0	0.36	0.00	0.06	0.00
10yr3d	NSLRWCD C37	BASE	21.52	10.69	18.50	0	0.37	0.00	0.07	0.00
10yr3d	NSLRWCD C37	BASE	21.77	10.68	18.50	0	0.37	0.00	0.08	0.00
10yr3d	NSLRWCD C37	BASE	22.02	10.67	18.50	0	0.38	0.00	0.08	0.00
10yr3d	NSLRWCD C37	BASE	22.27	10.66	18.50	0	0.38	0.00	0.09	0.00
10yr3d	NSLRWCD C37	BASE	22.52	10.65	18.50	0	0.38	0.00	0.10	0.00
10yr3d	NSLRWCD C37	BASE	22.77	10.64	18.50	0	0.39	0.00	0.11	0.00
10yr3d	NSLRWCD C37	BASE	23.02	10.62	18.50	0	0.39	0.00	0.11	0.00
10yr3d	NSLRWCD C37	BASE	23.27	10.61	18.50	0	0.40	0.00	0.12	0.00
10yr3d	NSLRWCD C37	BASE	23.52	10.60	18.50	0	0.40	0.00	0.13	0.00
10yr3d	NSLRWCD C37	BASE	23.77	10.59	18.50	0	0.40	0.00	0.14	0.00
10yr3d	NSLRWCD C37	BASE	24.02	10.58	18.50	0	0.41	0.00	0.15	0.00
10yr3d	NSLRWCD C37	BASE	24.27	10.59	18.50	0	0.41	0.00	0.16	0.00
10yr3d	NSLRWCD C37	BASE	24.52	10.60	18.50	0	0.41	0.00	0.16	0.00
10yr3d	NSLRWCD C37	BASE	24.77	10.60	18.50	0	0.41	0.00	0.17	0.00
10yr3d	NSLRWCD C37	BASE	25.02	10.61	18.50	0	0.41	0.00	0.18	0.00
10yr3d	NSLRWCD C37	BASE	25.27	10.62	18.50	0	0.41	0.00	0.19	0.00
10yr3d	NSLRWCD C37	BASE	25.52	10.63	18.50	0	0.41	0.00	0.20	0.00
10yr3d	NSLRWCD C37	BASE	25.77	10.63	18.50	0	0.41	0.00	0.21	0.00
10yr3d	NSLRWCD C37	BASE	26.02	10.64	18.50	0	0.41	0.00	0.22	0.00
10yr3d	NSLRWCD C37	BASE	26.27	10.65	18.50	0	0.41	0.00	0.22	0.00
10yr3d	NSLRWCD C37	BASE	26.52	10.66	18.50	0	0.41	0.00	0.23	0.00
10yr3d	NSLRWCD C37	BASE	26.77	10.66	18.50	0	0.41	0.00	0.24	0.00
10yr3d	NSLRWCD C37	BASE	27.02	10.67	18.50	0	0.42	0.00	0.25	0.00
10yr3d	NSLRWCD C37	BASE	27.27	10.68	18.50	0	0.42	0.00	0.26	0.00
10yr3d	NSLRWCD C37	BASE	27.52	10.69	18.50	0	0.43	0.00	0.27	0.00
10yr3d	NSLRWCD C37	BASE	27.77	10.69	18.50	0	0.44	0.00	0.28	0.00
10yr3d	NSLRWCD C37	BASE	28.02	10.70	18.50	0	0.44	0.00	0.28	0.00
10yr3d	NSLRWCD C37	BASE	28.27	10.72	18.50	0	0.45	0.00	0.29	0.00
10yr3d	NSLRWCD C37	BASE	28.52	10.73	18.50	0	0.46	0.00	0.30	0.00
10yr3d	NSLRWCD C37	BASE	28.77	10.75	18.50	0	0.47	0.00	0.31	0.00
10yr3d	NSLRWCD C37	BASE	29.02	10.77	18.50	0	0.47	0.00	0.32	0.00
10yr3d	NSLRWCD C37	BASE	29.27	10.78	18.50	0	0.48	0.00	0.33	0.00
10yr3d	NSLRWCD C37	BASE	29.52	10.80	18.50	0	0.49	0.00	0.34	0.00
10yr3d	NSLRWCD C37	BASE	29.77	10.81	18.50	0	0.50	0.00	0.35	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	30.02	10.83	18.50	0	0.51	0.00	0.36	0.00
10yr3d	NSLRWCD C37	BASE	30.27	10.85	18.50	0	0.52	0.00	0.37	0.00
10yr3d	NSLRWCD C37	BASE	30.52	10.86	18.50	0	0.53	0.00	0.38	0.00
10yr3d	NSLRWCD C37	BASE	30.77	10.88	18.50	0	0.54	0.00	0.40	0.00
10yr3d	NSLRWCD C37	BASE	31.02	10.90	18.50	0	0.55	0.00	0.41	0.00
10yr3d	NSLRWCD C37	BASE	31.27	10.91	18.50	0	0.56	0.00	0.42	0.00
10yr3d	NSLRWCD C37	BASE	31.52	10.93	18.50	0	0.57	0.00	0.43	0.00
10yr3d	NSLRWCD C37	BASE	31.77	10.94	18.50	0	0.58	0.00	0.44	0.00
10yr3d	NSLRWCD C37	BASE	32.02	10.97	18.50	0	0.60	0.00	0.45	0.00
10yr3d	NSLRWCD C37	BASE	32.27	11.06	18.50	0	0.59	0.00	0.47	0.00
10yr3d	NSLRWCD C37	BASE	32.52	11.14	18.50	0	0.59	0.00	0.48	0.00
10yr3d	NSLRWCD C37	BASE	32.77	11.23	18.50	0	0.58	0.00	0.49	0.00
10yr3d	NSLRWCD C37	BASE	33.02	11.32	18.50	0	0.57	0.00	0.50	0.00
10yr3d	NSLRWCD C37	BASE	33.27	11.41	18.50	0	0.56	0.00	0.51	0.00
10yr3d	NSLRWCD C37	BASE	33.52	11.50	18.50	0	0.55	0.00	0.53	0.00
10yr3d	NSLRWCD C37	BASE	33.77	11.59	18.50	0	0.54	0.00	0.54	0.00
10yr3d	NSLRWCD C37	BASE	34.02	11.68	18.50	0	0.50	0.00	0.55	0.00
10yr3d	NSLRWCD C37	BASE	34.27	11.77	18.50	0	0.43	0.00	0.56	0.00
10yr3d	NSLRWCD C37	BASE	34.52	11.86	18.50	0	0.30	0.00	0.57	0.00
10yr3d	NSLRWCD C37	BASE	34.77	11.95	18.50	0	-0.21	0.00	0.57	0.00
10yr3d	NSLRWCD C37	BASE	35.02	12.04	18.50	0	-0.52	0.00	0.56	0.00
10yr3d	NSLRWCD C37	BASE	35.27	12.13	18.50	0	-0.76	0.00	0.55	0.00
10yr3d	NSLRWCD C37	BASE	35.52	12.22	18.50	0	-0.99	0.00	0.53	0.00
10yr3d	NSLRWCD C37	BASE	35.77	12.31	18.50	0	-1.12	0.00	0.51	0.00
10yr3d	NSLRWCD C37	BASE	36.02	12.39	18.50	0	-1.22	0.00	0.48	0.00
10yr3d	NSLRWCD C37	BASE	36.27	12.33	18.50	0	-1.10	0.00	0.46	0.00
10yr3d	NSLRWCD C37	BASE	36.52	12.28	18.50	0	-0.95	0.00	0.44	0.00
10yr3d	NSLRWCD C37	BASE	36.77	12.23	18.50	0	-0.78	0.00	0.42	0.00
10yr3d	NSLRWCD C37	BASE	37.02	12.17	18.50	0	-0.52	0.00	0.40	0.00
10yr3d	NSLRWCD C37	BASE	37.27	12.12	18.50	0	-0.22	0.00	0.40	0.00
10yr3d	NSLRWCD C37	BASE	37.52	12.07	18.50	0	0.40	0.00	0.40	0.00
10yr3d	NSLRWCD C37	BASE	37.77	12.01	18.50	0	0.65	0.00	0.41	0.00
10yr3d	NSLRWCD C37	BASE	38.02	11.96	18.50	0	0.80	0.00	0.43	0.00
10yr3d	NSLRWCD C37	BASE	38.27	11.91	18.50	0	0.93	0.00	0.44	0.00
10yr3d	NSLRWCD C37	BASE	38.52	11.86	18.50	0	1.04	0.00	0.46	0.00
10yr3d	NSLRWCD C37	BASE	38.77	11.80	18.50	0	1.11	0.00	0.49	0.00
10yr3d	NSLRWCD C37	BASE	39.02	11.75	18.50	0	1.16	0.00	0.51	0.00
10yr3d	NSLRWCD C37	BASE	39.27	11.70	18.50	0	1.20	0.00	0.53	0.00
10yr3d	NSLRWCD C37	BASE	39.52	11.64	18.50	0	1.23	0.00	0.56	0.00
10yr3d	NSLRWCD C37	BASE	39.77	11.59	18.50	0	1.26	0.00	0.58	0.00
10yr3d	NSLRWCD C37	BASE	40.02	11.54	18.50	0	1.29	0.00	0.61	0.00
10yr3d	NSLRWCD C37	BASE	40.27	11.49	18.50	0	1.31	0.00	0.64	0.00
10yr3d	NSLRWCD C37	BASE	40.52	11.45	18.50	0	1.33	0.00	0.66	0.00
10yr3d	NSLRWCD C37	BASE	40.77	11.40	18.50	0	1.35	0.00	0.69	0.00
10yr3d	NSLRWCD C37	BASE	41.02	11.36	18.50	0	1.37	0.00	0.72	0.00
10yr3d	NSLRWCD C37	BASE	41.27	11.32	18.50	0	1.39	0.00	0.75	0.00
10yr3d	NSLRWCD C37	BASE	41.52	11.27	18.50	0	1.41	0.00	0.78	0.00
10yr3d	NSLRWCD C37	BASE	41.77	11.23	18.50	0	1.43	0.00	0.81	0.00
10yr3d	NSLRWCD C37	BASE	42.02	11.18	18.50	0	1.45	0.00	0.84	0.00
10yr3d	NSLRWCD C37	BASE	42.27	11.14	18.50	0	1.47	0.00	0.87	0.00
10yr3d	NSLRWCD C37	BASE	42.52	11.09	18.50	0	1.48	0.00	0.90	0.00
10yr3d	NSLRWCD C37	BASE	42.77	11.05	18.50	0	1.50	0.00	0.93	0.00
10yr3d	NSLRWCD C37	BASE	43.02	11.00	18.50	0	1.52	0.00	0.96	0.00
10yr3d	NSLRWCD C37	BASE	43.27	10.96	18.50	0	1.53	0.00	0.99	0.00
10yr3d	NSLRWCD C37	BASE	43.52	10.92	18.50	0	1.55	0.00	1.02	0.00
10yr3d	NSLRWCD C37	BASE	43.77	10.87	18.50	0	1.56	0.00	1.06	0.00
10yr3d	NSLRWCD C37	BASE	44.02	10.83	18.50	0	1.58	0.00	1.09	0.00
10yr3d	NSLRWCD C37	BASE	44.27	10.82	18.50	0	1.59	0.00	1.12	0.00
10yr3d	NSLRWCD C37	BASE	44.52	10.80	18.50	0	1.60	0.00	1.15	0.00
10yr3d	NSLRWCD C37	BASE	44.77	10.79	18.50	0	1.61	0.00	1.19	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	45.02	10.77	18.50	0	1.62	0.00	1.22	0.00
10yr3d	NSLRWCD C37	BASE	45.27	10.76	18.50	0	1.63	0.00	1.25	0.00
10yr3d	NSLRWCD C37	BASE	45.52	10.75	18.50	0	1.64	0.00	1.29	0.00
10yr3d	NSLRWCD C37	BASE	45.77	10.73	18.50	0	1.65	0.00	1.32	0.00
10yr3d	NSLRWCD C37	BASE	46.02	10.72	18.50	0	1.66	0.00	1.36	0.00
10yr3d	NSLRWCD C37	BASE	46.27	10.71	18.50	0	1.67	0.00	1.39	0.00
10yr3d	NSLRWCD C37	BASE	46.52	10.69	18.50	0	1.67	0.00	1.42	0.00
10yr3d	NSLRWCD C37	BASE	46.77	10.68	18.50	0	1.68	0.00	1.46	0.00
10yr3d	NSLRWCD C37	BASE	47.02	10.66	18.50	0	1.69	0.00	1.49	0.00
10yr3d	NSLRWCD C37	BASE	47.27	10.65	18.50	0	1.70	0.00	1.53	0.00
10yr3d	NSLRWCD C37	BASE	47.52	10.64	18.50	0	1.71	0.00	1.56	0.00
10yr3d	NSLRWCD C37	BASE	47.77	10.62	18.50	0	1.72	0.00	1.60	0.00
10yr3d	NSLRWCD C37	BASE	48.02	10.61	18.50	0	1.73	0.00	1.64	0.00
10yr3d	NSLRWCD C37	BASE	48.27	10.62	18.50	0	1.73	0.00	1.67	0.00
10yr3d	NSLRWCD C37	BASE	48.52	10.64	18.50	0	1.74	0.00	1.71	0.00
10yr3d	NSLRWCD C37	BASE	48.77	10.65	18.50	0	1.74	0.00	1.74	0.00
10yr3d	NSLRWCD C37	BASE	49.02	10.67	18.50	0	1.75	0.00	1.78	0.00
10yr3d	NSLRWCD C37	BASE	49.27	10.68	18.50	0	1.75	0.00	1.81	0.00
10yr3d	NSLRWCD C37	BASE	49.52	10.69	18.50	0	1.76	0.00	1.85	0.00
10yr3d	NSLRWCD C37	BASE	49.77	10.71	18.50	0	1.77	0.00	1.89	0.00
10yr3d	NSLRWCD C37	BASE	50.02	10.72	18.50	0	1.77	0.00	1.92	0.00
10yr3d	NSLRWCD C37	BASE	50.27	10.73	18.50	0	1.78	0.00	1.96	0.00
10yr3d	NSLRWCD C37	BASE	50.52	10.75	18.50	0	1.79	0.00	2.00	0.00
10yr3d	NSLRWCD C37	BASE	50.77	10.76	18.50	0	1.79	0.00	2.03	0.00
10yr3d	NSLRWCD C37	BASE	51.02	10.78	18.50	0	1.80	0.00	2.07	0.00
10yr3d	NSLRWCD C37	BASE	51.27	10.79	18.50	0	1.81	0.00	2.11	0.00
10yr3d	NSLRWCD C37	BASE	51.52	10.80	18.50	0	1.82	0.00	2.15	0.00
10yr3d	NSLRWCD C37	BASE	51.77	10.82	18.50	0	1.83	0.00	2.18	0.00
10yr3d	NSLRWCD C37	BASE	52.02	10.83	18.50	0	1.83	0.00	2.22	0.00
10yr3d	NSLRWCD C37	BASE	52.27	10.86	18.50	0	1.84	0.00	2.26	0.00
10yr3d	NSLRWCD C37	BASE	52.52	10.88	18.50	0	1.85	0.00	2.30	0.00
10yr3d	NSLRWCD C37	BASE	52.77	10.91	18.50	0	1.86	0.00	2.34	0.00
10yr3d	NSLRWCD C37	BASE	53.02	10.93	18.50	0	1.87	0.00	2.38	0.00
10yr3d	NSLRWCD C37	BASE	53.27	10.96	18.50	0	1.89	0.00	2.41	0.00
10yr3d	NSLRWCD C37	BASE	53.52	10.98	18.50	0	1.90	0.00	2.45	0.00
10yr3d	NSLRWCD C37	BASE	53.77	11.01	18.50	0	1.91	0.00	2.49	0.00
10yr3d	NSLRWCD C37	BASE	54.02	11.03	18.50	0	1.93	0.00	2.53	0.00
10yr3d	NSLRWCD C37	BASE	54.27	11.06	18.50	0	1.94	0.00	2.57	0.00
10yr3d	NSLRWCD C37	BASE	54.52	11.08	18.50	0	1.96	0.00	2.61	0.00
10yr3d	NSLRWCD C37	BASE	54.77	11.11	18.50	0	1.98	0.00	2.65	0.00
10yr3d	NSLRWCD C37	BASE	55.02	11.13	18.50	0	2.00	0.00	2.69	0.00
10yr3d	NSLRWCD C37	BASE	55.27	11.16	18.50	0	2.02	0.00	2.74	0.00
10yr3d	NSLRWCD C37	BASE	55.52	11.18	18.50	0	2.04	0.00	2.78	0.00
10yr3d	NSLRWCD C37	BASE	55.77	11.21	18.50	0	2.06	0.00	2.82	0.00
10yr3d	NSLRWCD C37	BASE	56.02	11.24	18.50	0	2.08	0.00	2.86	0.00
10yr3d	NSLRWCD C37	BASE	56.27	11.37	18.50	0	2.08	0.00	2.91	0.00
10yr3d	NSLRWCD C37	BASE	56.52	11.51	18.50	0	2.08	0.00	2.95	0.00
10yr3d	NSLRWCD C37	BASE	56.77	11.64	18.50	0	2.09	0.00	2.99	0.00
10yr3d	NSLRWCD C37	BASE	57.02	11.77	18.50	0	2.09	0.00	3.03	0.00
10yr3d	NSLRWCD C37	BASE	57.27	11.91	18.50	0	2.04	0.00	3.08	0.00
10yr3d	NSLRWCD C37	BASE	57.52	12.04	18.50	0	1.94	0.00	3.12	0.00
10yr3d	NSLRWCD C37	BASE	57.77	12.17	18.50	0	1.83	0.00	3.16	0.00
10yr3d	NSLRWCD C37	BASE	58.02	12.31	18.50	0	1.73	0.00	3.19	0.00
10yr3d	NSLRWCD C37	BASE	58.27	12.44	18.50	0	1.62	0.00	3.23	0.00
10yr3d	NSLRWCD C37	BASE	58.52	12.58	18.50	0	1.50	0.00	3.26	0.00
10yr3d	NSLRWCD C37	BASE	58.77	12.71	18.50	0	1.39	0.00	3.29	0.00
10yr3d	NSLRWCD C37	BASE	59.02	12.84	18.50	0	1.28	0.00	3.32	0.00
10yr3d	NSLRWCD C37	BASE	59.26	12.97	18.50	0	1.18	0.00	3.34	0.00
10yr3d	NSLRWCD C37	BASE	59.50	13.10	18.50	0	1.11	0.00	3.37	0.00
10yr3d	NSLRWCD C37	BASE	59.75	13.24	18.50	0	1.31	0.00	3.39	0.00

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	60.00	13.37	18.50	0	1.78	0.00	3.42	0.00
10yr3d	NSLRWCD C37	BASE	60.25	13.29	18.50	0	2.28	0.00	3.47	0.00
10yr3d	NSLRWCD C37	BASE	60.50	13.21	18.50	0	2.53	0.00	3.51	0.00
10yr3d	NSLRWCD C37	BASE	60.75	13.13	18.50	0	2.68	0.00	3.57	0.00
10yr3d	NSLRWCD C37	BASE	61.00	13.05	18.50	0	2.79	0.00	3.63	0.00
10yr3d	NSLRWCD C37	BASE	61.26	12.97	18.50	0	2.88	0.00	3.68	0.00
10yr3d	NSLRWCD C37	BASE	61.51	12.90	18.50	0	2.97	0.00	3.74	0.00
10yr3d	NSLRWCD C37	BASE	61.76	12.82	18.50	0	3.04	0.00	3.81	0.00
10yr3d	NSLRWCD C37	BASE	62.01	12.74	18.50	0	3.11	0.00	3.87	0.00
10yr3d	NSLRWCD C37	BASE	62.26	12.66	18.50	0	3.18	0.00	3.94	0.00
10yr3d	NSLRWCD C37	BASE	62.51	12.58	18.50	0	3.24	0.00	4.00	0.00
10yr3d	NSLRWCD C37	BASE	62.76	12.50	18.50	0	3.30	0.00	4.07	0.00
10yr3d	NSLRWCD C37	BASE	63.01	12.42	18.50	0	3.36	0.00	4.14	0.00
10yr3d	NSLRWCD C37	BASE	63.26	12.34	18.50	0	3.41	0.00	4.21	0.00
10yr3d	NSLRWCD C37	BASE	63.51	12.27	18.50	0	3.46	0.00	4.28	0.00
10yr3d	NSLRWCD C37	BASE	63.76	12.19	18.50	0	3.52	0.00	4.35	0.00
10yr3d	NSLRWCD C37	BASE	64.01	12.11	18.50	0	3.58	0.00	4.42	0.00
10yr3d	NSLRWCD C37	BASE	64.26	12.04	18.50	0	3.65	0.00	4.50	0.00
10yr3d	NSLRWCD C37	BASE	64.51	11.97	18.50	0	3.71	0.00	4.58	0.00
10yr3d	NSLRWCD C37	BASE	64.76	11.90	18.50	0	3.77	0.00	4.65	0.00
10yr3d	NSLRWCD C37	BASE	65.01	11.84	18.50	0	3.81	0.00	4.73	0.00
10yr3d	NSLRWCD C37	BASE	65.26	11.77	18.50	0	3.84	0.00	4.81	0.00
10yr3d	NSLRWCD C37	BASE	65.51	11.70	18.50	0	3.87	0.00	4.89	0.00
10yr3d	NSLRWCD C37	BASE	65.76	11.63	18.50	0	3.89	0.00	4.97	0.00
10yr3d	NSLRWCD C37	BASE	66.01	11.56	18.50	0	3.92	0.00	5.05	0.00
10yr3d	NSLRWCD C37	BASE	66.26	11.50	18.50	0	3.94	0.00	5.13	0.00
10yr3d	NSLRWCD C37	BASE	66.51	11.43	18.50	0	3.97	0.00	5.21	0.00
10yr3d	NSLRWCD C37	BASE	66.76	11.36	18.50	0	3.99	0.00	5.30	0.00
10yr3d	NSLRWCD C37	BASE	67.01	11.29	18.50	0	4.01	0.00	5.38	0.00
10yr3d	NSLRWCD C37	BASE	67.26	11.22	18.50	0	4.03	0.00	5.46	0.00
10yr3d	NSLRWCD C37	BASE	67.51	11.15	18.50	0	4.05	0.00	5.54	0.00
10yr3d	NSLRWCD C37	BASE	67.76	11.09	18.50	0	4.07	0.00	5.63	0.00
10yr3d	NSLRWCD C37	BASE	68.01	11.02	18.50	0	4.09	0.00	5.71	0.00
10yr3d	NSLRWCD C37	BASE	68.26	11.00	18.50	0	4.10	0.00	5.80	0.00
10yr3d	NSLRWCD C37	BASE	68.51	10.98	18.50	0	4.09	0.00	5.88	0.00
10yr3d	NSLRWCD C37	BASE	68.76	10.96	18.50	0	4.08	0.00	5.97	0.00
10yr3d	NSLRWCD C37	BASE	69.01	10.94	18.50	0	4.07	0.00	6.05	0.00
10yr3d	NSLRWCD C37	BASE	69.26	10.92	18.50	0	4.06	0.00	6.13	0.00
10yr3d	NSLRWCD C37	BASE	69.51	10.90	18.50	0	4.06	0.00	6.22	0.00
10yr3d	NSLRWCD C37	BASE	69.76	10.88	18.50	0	4.05	0.00	6.30	0.00
10yr3d	NSLRWCD C37	BASE	70.01	10.86	18.50	0	4.04	0.00	6.39	0.00
10yr3d	NSLRWCD C37	BASE	70.26	10.84	18.50	0	4.03	0.00	6.47	0.00
10yr3d	NSLRWCD C37	BASE	70.51	10.82	18.50	0	4.02	0.00	6.55	0.00
10yr3d	NSLRWCD C37	BASE	70.76	10.80	18.50	0	4.01	0.00	6.64	0.00
10yr3d	NSLRWCD C37	BASE	71.01	10.78	18.50	0	4.01	0.00	6.72	0.00
10yr3d	NSLRWCD C37	BASE	71.26	10.76	18.50	0	4.00	0.00	6.80	0.00
10yr3d	NSLRWCD C37	BASE	71.51	10.74	18.50	0	3.99	0.00	6.88	0.00
10yr3d	NSLRWCD C37	BASE	71.76	10.72	18.50	0	3.99	0.00	6.97	0.00
10yr3d	NSLRWCD C37	BASE	72.01	10.70	18.50	0	3.98	0.00	7.05	0.00
10yr3d	NSLRWCD C37	BASE	72.26	10.70	18.50	0	3.96	0.00	7.13	0.00
10yr3d	NSLRWCD C37	BASE	72.51	10.69	18.50	0	3.93	0.00	7.21	0.00
10yr3d	NSLRWCD C37	BASE	72.76	10.69	18.50	0	3.89	0.00	7.29	0.00
10yr3d	NSLRWCD C37	BASE	73.01	10.69	18.50	0	3.86	0.00	7.37	0.00
10yr3d	NSLRWCD C37	BASE	73.26	10.69	18.50	0	3.85	0.00	7.45	0.00
10yr3d	NSLRWCD C37	BASE	73.51	10.68	18.50	0	3.84	0.00	7.53	0.00
10yr3d	NSLRWCD C37	BASE	73.76	10.68	18.50	0	3.84	0.00	7.61	0.00
10yr3d	NSLRWCD C37	BASE	74.01	10.68	18.50	0	3.83	0.00	7.69	0.00
10yr3d	NSLRWCD C37	BASE	74.26	10.68	18.50	0	3.83	0.00	7.77	0.00
10yr3d	NSLRWCD C37	BASE	74.51	10.67	18.50	0	3.82	0.00	7.85	0.00
10yr3d	NSLRWCD C37	BASE	74.76	10.67	18.50	0	3.82	0.00	7.93	0.00

Max Discharge Volume in 24-hrs = 7.54 acft
Less than Allowable 2" over 45 ac = 7.65 acft

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	75.01	10.67	18.50	0	3.81	0.00	8.01	0.00
10yr3d	NSLRWCD C37	BASE	75.26	10.67	18.50	0	3.81	0.00	8.09	0.00
10yr3d	NSLRWCD C37	BASE	75.51	10.66	18.50	0	3.80	0.00	8.16	0.00
10yr3d	NSLRWCD C37	BASE	75.76	10.66	18.50	0	3.80	0.00	8.24	0.00
10yr3d	NSLRWCD C37	BASE	76.01	10.66	18.50	0	3.79	0.00	8.32	0.00
10yr3d	NSLRWCD C37	BASE	76.26	10.66	18.50	0	3.79	0.00	8.40	0.00
10yr3d	NSLRWCD C37	BASE	76.51	10.65	18.50	0	3.78	0.00	8.48	0.00
10yr3d	NSLRWCD C37	BASE	76.76	10.65	18.50	0	3.78	0.00	8.56	0.00
10yr3d	NSLRWCD C37	BASE	77.01	10.65	18.50	0	3.77	0.00	8.63	0.00
10yr3d	NSLRWCD C37	BASE	77.26	10.65	18.50	0	3.77	0.00	8.71	0.00
10yr3d	NSLRWCD C37	BASE	77.51	10.64	18.50	0	3.76	0.00	8.79	0.00
10yr3d	NSLRWCD C37	BASE	77.76	10.64	18.50	0	3.76	0.00	8.87	0.00
10yr3d	NSLRWCD C37	BASE	78.01	10.64	18.50	0	3.75	0.00	8.94	0.00
10yr3d	NSLRWCD C37	BASE	78.26	10.64	18.50	0	3.75	0.00	9.02	0.00
10yr3d	NSLRWCD C37	BASE	78.51	10.63	18.50	0	3.74	0.00	9.10	0.00
10yr3d	NSLRWCD C37	BASE	78.76	10.63	18.50	0	3.74	0.00	9.18	0.00
10yr3d	NSLRWCD C37	BASE	79.01	10.63	18.50	0	3.73	0.00	9.25	0.00
10yr3d	NSLRWCD C37	BASE	79.26	10.63	18.50	0	3.73	0.00	9.33	0.00
10yr3d	NSLRWCD C37	BASE	79.51	10.62	18.50	0	3.72	0.00	9.41	0.00
10yr3d	NSLRWCD C37	BASE	79.76	10.62	18.50	0	3.72	0.00	9.48	0.00
10yr3d	NSLRWCD C37	BASE	80.01	10.62	18.50	0	3.71	0.00	9.56	0.00
10yr3d	NSLRWCD C37	BASE	80.26	10.62	18.50	0	3.71	0.00	9.64	0.00
10yr3d	NSLRWCD C37	BASE	80.51	10.61	18.50	0	3.70	0.00	9.71	0.00
10yr3d	NSLRWCD C37	BASE	80.76	10.61	18.50	0	3.70	0.00	9.79	0.00
10yr3d	NSLRWCD C37	BASE	81.01	10.61	18.50	0	3.69	0.00	9.87	0.00
10yr3d	NSLRWCD C37	BASE	81.26	10.61	18.50	0	3.69	0.00	9.94	0.00
10yr3d	NSLRWCD C37	BASE	81.51	10.60	18.50	0	3.68	0.00	10.02	0.00
10yr3d	NSLRWCD C37	BASE	81.76	10.60	18.50	0	3.67	0.00	10.10	0.00
10yr3d	NSLRWCD C37	BASE	82.01	10.60	18.50	0	3.67	0.00	10.17	0.00
10yr3d	NSLRWCD C37	BASE	82.26	10.60	18.50	0	3.66	0.00	10.25	0.00
10yr3d	NSLRWCD C37	BASE	82.51	10.59	18.50	0	3.66	0.00	10.32	0.00
10yr3d	NSLRWCD C37	BASE	82.76	10.59	18.50	0	3.65	0.00	10.40	0.00
10yr3d	NSLRWCD C37	BASE	83.01	10.59	18.50	0	3.65	0.00	10.47	0.00
10yr3d	NSLRWCD C37	BASE	83.26	10.59	18.50	0	3.64	0.00	10.55	0.00
10yr3d	NSLRWCD C37	BASE	83.51	10.58	18.50	0	3.64	0.00	10.62	0.00
10yr3d	NSLRWCD C37	BASE	83.76	10.58	18.50	0	3.63	0.00	10.70	0.00
10yr3d	NSLRWCD C37	BASE	84.01	10.58	18.50	0	3.63	0.00	10.77	0.00
10yr3d	NSLRWCD C37	BASE	84.26	10.58	18.50	0	3.62	0.00	10.85	0.00
10yr3d	NSLRWCD C37	BASE	84.51	10.57	18.50	0	3.62	0.00	10.92	0.00
10yr3d	NSLRWCD C37	BASE	84.76	10.57	18.50	0	3.61	0.00	11.00	0.00
10yr3d	NSLRWCD C37	BASE	85.01	10.57	18.50	0	3.60	0.00	11.07	0.00
10yr3d	NSLRWCD C37	BASE	85.26	10.57	18.50	0	3.60	0.00	11.15	0.00
10yr3d	NSLRWCD C37	BASE	85.51	10.56	18.50	0	3.59	0.00	11.22	0.00
10yr3d	NSLRWCD C37	BASE	85.76	10.56	18.50	0	3.59	0.00	11.30	0.00
10yr3d	NSLRWCD C37	BASE	86.01	10.56	18.50	0	3.58	0.00	11.37	0.00
10yr3d	NSLRWCD C37	BASE	86.26	10.56	18.50	0	3.58	0.00	11.44	0.00
10yr3d	NSLRWCD C37	BASE	86.51	10.55	18.50	0	3.57	0.00	11.52	0.00
10yr3d	NSLRWCD C37	BASE	86.76	10.55	18.50	0	3.57	0.00	11.59	0.00
10yr3d	NSLRWCD C37	BASE	87.01	10.55	18.50	0	3.56	0.00	11.66	0.00
10yr3d	NSLRWCD C37	BASE	87.26	10.55	18.50	0	3.55	0.00	11.74	0.00
10yr3d	NSLRWCD C37	BASE	87.51	10.54	18.50	0	3.55	0.00	11.81	0.00
10yr3d	NSLRWCD C37	BASE	87.76	10.54	18.50	0	3.54	0.00	11.89	0.00
10yr3d	NSLRWCD C37	BASE	88.01	10.54	18.50	0	3.54	0.00	11.96	0.00
10yr3d	NSLRWCD C37	BASE	88.26	10.54	18.50	0	3.53	0.00	12.03	0.00
10yr3d	NSLRWCD C37	BASE	88.51	10.53	18.50	0	3.53	0.00	12.10	0.00
10yr3d	NSLRWCD C37	BASE	88.76	10.53	18.50	0	3.52	0.00	12.18	0.00
10yr3d	NSLRWCD C37	BASE	89.01	10.53	18.50	0	3.51	0.00	12.25	0.00
10yr3d	NSLRWCD C37	BASE	89.26	10.53	18.50	0	3.51	0.00	12.32	0.00
10yr3d	NSLRWCD C37	BASE	89.51	10.52	18.50	0	3.50	0.00	12.39	0.00
10yr3d	NSLRWCD C37	BASE	89.76	10.52	18.50	0	3.50	0.00	12.47	0.00

Max Discharge Volume in 24-hrs = 7.54 acft
Less than Allowable 2" over 45 ac = 7.65 acft

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	90.01	10.52	18.50	0	3.49	0.00	12.54	0.00
10yr3d	NSLRWCD C37	BASE	90.26	10.51	18.50	0	3.49	0.00	12.61	0.00
10yr3d	NSLRWCD C37	BASE	90.51	10.51	18.50	0	3.48	0.00	12.68	0.00
10yr3d	NSLRWCD C37	BASE	90.76	10.51	18.50	0	3.47	0.00	12.75	0.00
10yr3d	NSLRWCD C37	BASE	91.01	10.51	18.50	0	3.47	0.00	12.83	0.00
10yr3d	NSLRWCD C37	BASE	91.26	10.50	18.50	0	3.46	0.00	12.90	0.00
10yr3d	NSLRWCD C37	BASE	91.51	10.50	18.50	0	3.46	0.00	12.97	0.00
10yr3d	NSLRWCD C37	BASE	91.76	10.50	18.50	0	3.45	0.00	13.04	0.00
10yr3d	NSLRWCD C37	BASE	92.01	10.50	18.50	0	3.44	0.00	13.11	0.00
10yr3d	NSLRWCD C37	BASE	92.26	10.49	18.50	0	3.44	0.00	13.18	0.00
10yr3d	NSLRWCD C37	BASE	92.51	10.49	18.50	0	3.43	0.00	13.25	0.00
10yr3d	NSLRWCD C37	BASE	92.76	10.49	18.50	0	3.43	0.00	13.33	0.00
10yr3d	NSLRWCD C37	BASE	93.01	10.49	18.50	0	3.42	0.00	13.40	0.00
10yr3d	NSLRWCD C37	BASE	93.26	10.48	18.50	0	3.41	0.00	13.47	0.00
10yr3d	NSLRWCD C37	BASE	93.51	10.48	18.50	0	3.41	0.00	13.54	0.00
10yr3d	NSLRWCD C37	BASE	93.76	10.48	18.50	0	3.40	0.00	13.61	0.00
10yr3d	NSLRWCD C37	BASE	94.01	10.48	18.50	0	3.40	0.00	13.68	0.00
10yr3d	NSLRWCD C37	BASE	94.26	10.47	18.50	0	3.39	0.00	13.75	0.00
10yr3d	NSLRWCD C37	BASE	94.51	10.47	18.50	0	3.38	0.00	13.82	0.00
10yr3d	NSLRWCD C37	BASE	94.76	10.47	18.50	0	3.38	0.00	13.89	0.00
10yr3d	NSLRWCD C37	BASE	95.01	10.47	18.50	0	3.37	0.00	13.96	0.00
10yr3d	NSLRWCD C37	BASE	95.26	10.46	18.50	0	3.37	0.00	14.03	0.00
10yr3d	NSLRWCD C37	BASE	95.51	10.46	18.50	0	3.36	0.00	14.10	0.00
10yr3d	NSLRWCD C37	BASE	95.76	10.46	18.50	0	3.35	0.00	14.17	0.00
10yr3d	NSLRWCD C37	BASE	96.01	10.46	18.50	0	3.35	0.00	14.23	0.00
10yr3d	NSLRWCD C37	BASE	96.26	10.45	18.50	0	3.34	0.00	14.30	0.00
10yr3d	NSLRWCD C37	BASE	96.51	10.45	18.50	0	3.34	0.00	14.37	0.00
10yr3d	NSLRWCD C37	BASE	96.76	10.45	18.50	0	3.33	0.00	14.44	0.00
10yr3d	NSLRWCD C37	BASE	97.01	10.45	18.50	0	3.32	0.00	14.51	0.00
10yr3d	NSLRWCD C37	BASE	97.26	10.44	18.50	0	3.32	0.00	14.58	0.00
10yr3d	NSLRWCD C37	BASE	97.51	10.44	18.50	0	3.31	0.00	14.65	0.00
10yr3d	NSLRWCD C37	BASE	97.76	10.44	18.50	0	3.31	0.00	14.72	0.00
10yr3d	NSLRWCD C37	BASE	98.01	10.44	18.50	0	3.30	0.00	14.78	0.00
10yr3d	NSLRWCD C37	BASE	98.26	10.43	18.50	0	3.29	0.00	14.85	0.00
10yr3d	NSLRWCD C37	BASE	98.51	10.43	18.50	0	3.29	0.00	14.92	0.00
10yr3d	NSLRWCD C37	BASE	98.76	10.43	18.50	0	3.28	0.00	14.99	0.00
10yr3d	NSLRWCD C37	BASE	99.01	10.43	18.50	0	3.28	0.00	15.06	0.00
10yr3d	NSLRWCD C37	BASE	99.26	10.42	18.50	0	3.27	0.00	15.12	0.00
10yr3d	NSLRWCD C37	BASE	99.51	10.42	18.50	0	3.26	0.00	15.19	0.00
10yr3d	NSLRWCD C37	BASE	99.76	10.42	18.50	0	3.26	0.00	15.26	0.00
10yr3d	NSLRWCD C37	BASE	100.01	10.42	18.50	0	3.25	0.00	15.33	0.00
10yr3d	NSLRWCD C37	BASE	100.26	10.41	18.50	0	3.24	0.00	15.39	0.00
10yr3d	NSLRWCD C37	BASE	100.51	10.41	18.50	0	3.24	0.00	15.46	0.00
10yr3d	NSLRWCD C37	BASE	100.76	10.41	18.50	0	3.23	0.00	15.53	0.00
10yr3d	NSLRWCD C37	BASE	101.01	10.41	18.50	0	3.23	0.00	15.59	0.00
10yr3d	NSLRWCD C37	BASE	101.26	10.40	18.50	0	3.22	0.00	15.66	0.00
10yr3d	NSLRWCD C37	BASE	101.51	10.40	18.50	0	3.21	0.00	15.73	0.00
10yr3d	NSLRWCD C37	BASE	101.76	10.40	18.50	0	3.21	0.00	15.79	0.00
10yr3d	NSLRWCD C37	BASE	102.01	10.40	18.50	0	3.20	0.00	15.86	0.00
10yr3d	NSLRWCD C37	BASE	102.26	10.39	18.50	0	3.20	0.00	15.92	0.00
10yr3d	NSLRWCD C37	BASE	102.51	10.39	18.50	0	3.19	0.00	15.99	0.00
10yr3d	NSLRWCD C37	BASE	102.76	10.39	18.50	0	3.18	0.00	16.06	0.00
10yr3d	NSLRWCD C37	BASE	103.01	10.39	18.50	0	3.18	0.00	16.12	0.00
10yr3d	NSLRWCD C37	BASE	103.26	10.38	18.50	0	3.17	0.00	16.19	0.00
10yr3d	NSLRWCD C37	BASE	103.51	10.38	18.50	0	3.16	0.00	16.25	0.00
10yr3d	NSLRWCD C37	BASE	103.76	10.38	18.50	0	3.16	0.00	16.32	0.00
10yr3d	NSLRWCD C37	BASE	104.01	10.38	18.50	0	3.15	0.00	16.38	0.00
10yr3d	NSLRWCD C37	BASE	104.26	10.37	18.50	0	3.15	0.00	16.45	0.00
10yr3d	NSLRWCD C37	BASE	104.51	10.37	18.50	0	3.14	0.00	16.51	0.00
10yr3d	NSLRWCD C37	BASE	104.76	10.37	18.50	0	3.13	0.00	16.58	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	105.01	10.37	18.50	0	3.13	0.00	16.64	0.00
10yr3d	NSLRWCD C37	BASE	105.26	10.36	18.50	0	3.12	0.00	16.71	0.00
10yr3d	NSLRWCD C37	BASE	105.51	10.36	18.50	0	3.12	0.00	16.77	0.00
10yr3d	NSLRWCD C37	BASE	105.76	10.36	18.50	0	3.11	0.00	16.84	0.00
10yr3d	NSLRWCD C37	BASE	106.01	10.36	18.50	0	3.10	0.00	16.90	0.00
10yr3d	NSLRWCD C37	BASE	106.26	10.35	18.50	0	3.10	0.00	16.96	0.00
10yr3d	NSLRWCD C37	BASE	106.51	10.35	18.50	0	3.09	0.00	17.03	0.00
10yr3d	NSLRWCD C37	BASE	106.76	10.35	18.50	0	3.08	0.00	17.09	0.00
10yr3d	NSLRWCD C37	BASE	107.01	10.35	18.50	0	3.08	0.00	17.16	0.00
10yr3d	NSLRWCD C37	BASE	107.26	10.34	18.50	0	3.07	0.00	17.22	0.00
10yr3d	NSLRWCD C37	BASE	107.51	10.34	18.50	0	3.07	0.00	17.28	0.00
10yr3d	NSLRWCD C37	BASE	107.76	10.34	18.50	0	3.06	0.00	17.35	0.00
10yr3d	NSLRWCD C37	BASE	108.01	10.33	18.50	0	3.05	0.00	17.41	0.00
10yr3d	NSLRWCD C37	BASE	108.26	10.33	18.50	0	3.05	0.00	17.47	0.00
10yr3d	NSLRWCD C37	BASE	108.51	10.33	18.50	0	3.04	0.00	17.54	0.00
10yr3d	NSLRWCD C37	BASE	108.76	10.33	18.50	0	3.03	0.00	17.60	0.00
10yr3d	NSLRWCD C37	BASE	109.01	10.32	18.50	0	3.03	0.00	17.66	0.00
10yr3d	NSLRWCD C37	BASE	109.26	10.32	18.50	0	3.02	0.00	17.72	0.00
10yr3d	NSLRWCD C37	BASE	109.51	10.32	18.50	0	3.02	0.00	17.79	0.00
10yr3d	NSLRWCD C37	BASE	109.76	10.32	18.50	0	3.01	0.00	17.85	0.00
10yr3d	NSLRWCD C37	BASE	110.01	10.31	18.50	0	3.00	0.00	17.91	0.00
10yr3d	NSLRWCD C37	BASE	110.26	10.31	18.50	0	3.00	0.00	17.97	0.00
10yr3d	NSLRWCD C37	BASE	110.51	10.31	18.50	0	2.99	0.00	18.03	0.00
10yr3d	NSLRWCD C37	BASE	110.76	10.31	18.50	0	2.98	0.00	18.10	0.00
10yr3d	NSLRWCD C37	BASE	111.01	10.30	18.50	0	2.98	0.00	18.16	0.00
10yr3d	NSLRWCD C37	BASE	111.26	10.30	18.50	0	2.97	0.00	18.22	0.00
10yr3d	NSLRWCD C37	BASE	111.51	10.30	18.50	0	2.96	0.00	18.28	0.00
10yr3d	NSLRWCD C37	BASE	111.76	10.30	18.50	0	2.96	0.00	18.34	0.00
10yr3d	NSLRWCD C37	BASE	112.01	10.29	18.50	0	2.95	0.00	18.40	0.00
10yr3d	NSLRWCD C37	BASE	112.26	10.29	18.50	0	2.95	0.00	18.46	0.00
10yr3d	NSLRWCD C37	BASE	112.51	10.29	18.50	0	2.94	0.00	18.52	0.00
10yr3d	NSLRWCD C37	BASE	112.76	10.29	18.50	0	2.93	0.00	18.58	0.00
10yr3d	NSLRWCD C37	BASE	113.01	10.28	18.50	0	2.93	0.00	18.65	0.00
10yr3d	NSLRWCD C37	BASE	113.26	10.28	18.50	0	2.92	0.00	18.71	0.00
10yr3d	NSLRWCD C37	BASE	113.51	10.28	18.50	0	2.91	0.00	18.77	0.00
10yr3d	NSLRWCD C37	BASE	113.76	10.28	18.50	0	2.91	0.00	18.83	0.00
10yr3d	NSLRWCD C37	BASE	114.01	10.27	18.50	0	2.90	0.00	18.89	0.00
10yr3d	NSLRWCD C37	BASE	114.26	10.27	18.50	0	2.90	0.00	18.95	0.00
10yr3d	NSLRWCD C37	BASE	114.51	10.27	18.50	0	2.89	0.00	19.01	0.00
10yr3d	NSLRWCD C37	BASE	114.76	10.27	18.50	0	2.88	0.00	19.07	0.00
10yr3d	NSLRWCD C37	BASE	115.01	10.26	18.50	0	2.88	0.00	19.12	0.00
10yr3d	NSLRWCD C37	BASE	115.26	10.26	18.50	0	2.87	0.00	19.18	0.00
10yr3d	NSLRWCD C37	BASE	115.51	10.26	18.50	0	2.86	0.00	19.24	0.00
10yr3d	NSLRWCD C37	BASE	115.76	10.26	18.50	0	2.86	0.00	19.30	0.00
10yr3d	NSLRWCD C37	BASE	116.01	10.25	18.50	0	2.85	0.00	19.36	0.00
10yr3d	NSLRWCD C37	BASE	116.26	10.25	18.50	0	2.84	0.00	19.42	0.00
10yr3d	NSLRWCD C37	BASE	116.51	10.25	18.50	0	2.84	0.00	19.48	0.00
10yr3d	NSLRWCD C37	BASE	116.76	10.25	18.50	0	2.83	0.00	19.54	0.00
10yr3d	NSLRWCD C37	BASE	117.01	10.24	18.50	0	2.83	0.00	19.60	0.00
10yr3d	NSLRWCD C37	BASE	117.26	10.24	18.50	0	2.82	0.00	19.65	0.00
10yr3d	NSLRWCD C37	BASE	117.51	10.24	18.50	0	2.81	0.00	19.71	0.00
10yr3d	NSLRWCD C37	BASE	117.76	10.24	18.50	0	2.81	0.00	19.77	0.00
10yr3d	NSLRWCD C37	BASE	118.01	10.23	18.50	0	2.80	0.00	19.83	0.00
10yr3d	NSLRWCD C37	BASE	118.26	10.23	18.50	0	2.79	0.00	19.89	0.00
10yr3d	NSLRWCD C37	BASE	118.51	10.23	18.50	0	2.79	0.00	19.94	0.00
10yr3d	NSLRWCD C37	BASE	118.76	10.23	18.50	0	2.78	0.00	20.00	0.00
10yr3d	NSLRWCD C37	BASE	119.01	10.22	18.50	0	2.77	0.00	20.06	0.00
10yr3d	NSLRWCD C37	BASE	119.26	10.22	18.50	0	2.77	0.00	20.12	0.00
10yr3d	NSLRWCD C37	BASE	119.51	10.22	18.50	0	2.76	0.00	20.17	0.00
10yr3d	NSLRWCD C37	BASE	119.76	10.22	18.50	0	2.76	0.00	20.23	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	120.01	10.21	18.50	0	2.75	0.00	20.29	0.00
10yr3d	NSLRWCD C37	BASE	120.26	10.21	18.50	0	2.74	0.00	20.34	0.00
10yr3d	NSLRWCD C37	BASE	120.51	10.21	18.50	0	2.74	0.00	20.40	0.00
10yr3d	NSLRWCD C37	BASE	120.76	10.21	18.50	0	2.73	0.00	20.46	0.00
10yr3d	NSLRWCD C37	BASE	121.01	10.20	18.50	0	2.72	0.00	20.51	0.00
10yr3d	NSLRWCD C37	BASE	121.26	10.20	18.50	0	2.72	0.00	20.57	0.00
10yr3d	NSLRWCD C37	BASE	121.51	10.20	18.50	0	2.71	0.00	20.63	0.00
10yr3d	NSLRWCD C37	BASE	121.76	10.20	18.50	0	2.70	0.00	20.68	0.00
10yr3d	NSLRWCD C37	BASE	122.01	10.19	18.50	0	2.70	0.00	20.74	0.00
10yr3d	NSLRWCD C37	BASE	122.26	10.19	18.50	0	2.69	0.00	20.79	0.00
10yr3d	NSLRWCD C37	BASE	122.51	10.19	18.50	0	2.69	0.00	20.85	0.00
10yr3d	NSLRWCD C37	BASE	122.76	10.19	18.50	0	2.68	0.00	20.90	0.00
10yr3d	NSLRWCD C37	BASE	123.01	10.18	18.50	0	2.67	0.00	20.96	0.00
10yr3d	NSLRWCD C37	BASE	123.26	10.18	18.50	0	2.67	0.00	21.01	0.00
10yr3d	NSLRWCD C37	BASE	123.51	10.18	18.50	0	2.66	0.00	21.07	0.00
10yr3d	NSLRWCD C37	BASE	123.76	10.18	18.50	0	2.65	0.00	21.12	0.00
10yr3d	NSLRWCD C37	BASE	124.01	10.17	18.50	0	2.65	0.00	21.18	0.00
10yr3d	NSLRWCD C37	BASE	124.26	10.17	18.50	0	2.64	0.00	21.23	0.00
10yr3d	NSLRWCD C37	BASE	124.51	10.17	18.50	0	2.63	0.00	21.29	0.00
10yr3d	NSLRWCD C37	BASE	124.76	10.17	18.50	0	2.63	0.00	21.34	0.00
10yr3d	NSLRWCD C37	BASE	125.01	10.16	18.50	0	2.62	0.00	21.40	0.00
10yr3d	NSLRWCD C37	BASE	125.26	10.16	18.50	0	2.61	0.00	21.45	0.00
10yr3d	NSLRWCD C37	BASE	125.51	10.16	18.50	0	2.61	0.00	21.50	0.00
10yr3d	NSLRWCD C37	BASE	125.76	10.15	18.50	0	2.60	0.00	21.56	0.00
10yr3d	NSLRWCD C37	BASE	126.01	10.15	18.50	0	2.60	0.00	21.61	0.00
10yr3d	NSLRWCD C37	BASE	126.26	10.15	18.50	0	2.59	0.00	21.67	0.00
10yr3d	NSLRWCD C37	BASE	126.51	10.15	18.50	0	2.58	0.00	21.72	0.00
10yr3d	NSLRWCD C37	BASE	126.76	10.14	18.50	0	2.58	0.00	21.77	0.00
10yr3d	NSLRWCD C37	BASE	127.01	10.14	18.50	0	2.57	0.00	21.83	0.00
10yr3d	NSLRWCD C37	BASE	127.26	10.14	18.50	0	2.56	0.00	21.88	0.00
10yr3d	NSLRWCD C37	BASE	127.51	10.14	18.50	0	2.56	0.00	21.93	0.00
10yr3d	NSLRWCD C37	BASE	127.76	10.13	18.50	0	2.55	0.00	21.98	0.00
10yr3d	NSLRWCD C37	BASE	128.01	10.13	18.50	0	2.54	0.00	22.04	0.00
10yr3d	NSLRWCD C37	BASE	128.26	10.13	18.50	0	2.54	0.00	22.09	0.00
10yr3d	NSLRWCD C37	BASE	128.51	10.13	18.50	0	2.53	0.00	22.14	0.00
10yr3d	NSLRWCD C37	BASE	128.76	10.12	18.50	0	2.52	0.00	22.19	0.00
10yr3d	NSLRWCD C37	BASE	129.01	10.12	18.50	0	2.52	0.00	22.25	0.00
10yr3d	NSLRWCD C37	BASE	129.26	10.12	18.50	0	2.51	0.00	22.30	0.00
10yr3d	NSLRWCD C37	BASE	129.51	10.12	18.50	0	2.50	0.00	22.35	0.00
10yr3d	NSLRWCD C37	BASE	129.76	10.11	18.50	0	2.50	0.00	22.40	0.00
10yr3d	NSLRWCD C37	BASE	130.01	10.11	18.50	0	2.49	0.00	22.45	0.00
10yr3d	NSLRWCD C37	BASE	130.26	10.11	18.50	0	2.48	0.00	22.50	0.00
10yr3d	NSLRWCD C37	BASE	130.51	10.11	18.50	0	2.48	0.00	22.56	0.00
10yr3d	NSLRWCD C37	BASE	130.76	10.10	18.50	0	2.47	0.00	22.61	0.00
10yr3d	NSLRWCD C37	BASE	131.01	10.10	18.50	0	2.46	0.00	22.66	0.00
10yr3d	NSLRWCD C37	BASE	131.26	10.10	18.50	0	2.46	0.00	22.71	0.00
10yr3d	NSLRWCD C37	BASE	131.51	10.10	18.50	0	2.45	0.00	22.76	0.00
10yr3d	NSLRWCD C37	BASE	131.76	10.09	18.50	0	2.44	0.00	22.81	0.00
10yr3d	NSLRWCD C37	BASE	132.01	10.09	18.50	0	2.44	0.00	22.86	0.00
10yr3d	NSLRWCD C37	BASE	132.26	10.09	18.50	0	2.43	0.00	22.91	0.00
10yr3d	NSLRWCD C37	BASE	132.51	10.09	18.50	0	2.42	0.00	22.96	0.00
10yr3d	NSLRWCD C37	BASE	132.76	10.08	18.50	0	2.42	0.00	23.01	0.00
10yr3d	NSLRWCD C37	BASE	133.01	10.08	18.50	0	2.41	0.00	23.06	0.00
10yr3d	NSLRWCD C37	BASE	133.26	10.08	18.50	0	2.41	0.00	23.11	0.00
10yr3d	NSLRWCD C37	BASE	133.51	10.08	18.50	0	2.40	0.00	23.16	0.00
10yr3d	NSLRWCD C37	BASE	133.76	10.07	18.50	0	2.39	0.00	23.21	0.00
10yr3d	NSLRWCD C37	BASE	134.01	10.07	18.50	0	2.39	0.00	23.26	0.00
10yr3d	NSLRWCD C37	BASE	134.26	10.07	18.50	0	2.38	0.00	23.31	0.00
10yr3d	NSLRWCD C37	BASE	134.51	10.07	18.50	0	2.37	0.00	23.36	0.00
10yr3d	NSLRWCD C37	BASE	134.76	10.06	18.50	0	2.37	0.00	23.41	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	135.01	10.06	18.50	0	2.36	0.00	23.45	0.00
10yr3d	NSLRWCD C37	BASE	135.26	10.06	18.50	0	2.35	0.00	23.50	0.00
10yr3d	NSLRWCD C37	BASE	135.51	10.06	18.50	0	2.35	0.00	23.55	0.00
10yr3d	NSLRWCD C37	BASE	135.76	10.05	18.50	0	2.34	0.00	23.60	0.00
10yr3d	NSLRWCD C37	BASE	136.01	10.05	18.50	0	2.33	0.00	23.65	0.00
10yr3d	NSLRWCD C37	BASE	136.26	10.05	18.50	0	2.33	0.00	23.70	0.00
10yr3d	NSLRWCD C37	BASE	136.51	10.05	18.50	0	2.32	0.00	23.74	0.00
10yr3d	NSLRWCD C37	BASE	136.76	10.04	18.50	0	2.31	0.00	23.79	0.00
10yr3d	NSLRWCD C37	BASE	137.01	10.04	18.50	0	2.31	0.00	23.84	0.00
10yr3d	NSLRWCD C37	BASE	137.26	10.04	18.50	0	2.30	0.00	23.89	0.00
10yr3d	NSLRWCD C37	BASE	137.51	10.04	18.50	0	2.30	0.00	23.94	0.00
10yr3d	NSLRWCD C37	BASE	137.76	10.03	18.50	0	2.29	0.00	23.98	0.00
10yr3d	NSLRWCD C37	BASE	138.01	10.03	18.50	0	2.28	0.00	24.03	0.00
10yr3d	NSLRWCD C37	BASE	138.26	10.03	18.50	0	2.28	0.00	24.08	0.00
10yr3d	NSLRWCD C37	BASE	138.51	10.03	18.50	0	2.27	0.00	24.12	0.00
10yr3d	NSLRWCD C37	BASE	138.76	10.02	18.50	0	2.26	0.00	24.17	0.00
10yr3d	NSLRWCD C37	BASE	139.01	10.02	18.50	0	2.26	0.00	24.22	0.00
10yr3d	NSLRWCD C37	BASE	139.26	10.02	18.50	0	2.25	0.00	24.26	0.00
10yr3d	NSLRWCD C37	BASE	139.51	10.02	18.50	0	2.24	0.00	24.31	0.00
10yr3d	NSLRWCD C37	BASE	139.76	10.01	18.50	0	2.24	0.00	24.36	0.00
10yr3d	NSLRWCD C37	BASE	140.01	10.01	18.50	0	2.23	0.00	24.40	0.00
10yr3d	NSLRWCD C37	BASE	140.26	10.01	18.50	0	2.22	0.00	24.45	0.00
10yr3d	NSLRWCD C37	BASE	140.51	10.01	18.50	0	2.22	0.00	24.50	0.00
10yr3d	NSLRWCD C37	BASE	140.76	10.00	18.50	0	2.21	0.00	24.54	0.00
10yr3d	NSLRWCD C37	BASE	141.01	10.00	18.50	0	2.21	0.00	24.59	0.00
10yr3d	NSLRWCD C37	BASE	141.26	10.00	18.50	0	2.20	0.00	24.63	0.00
10yr3d	NSLRWCD C37	BASE	141.51	10.00	18.50	0	2.20	0.00	24.68	0.00
10yr3d	NSLRWCD C37	BASE	141.76	9.99	18.50	0	2.19	0.00	24.72	0.00
10yr3d	NSLRWCD C37	BASE	142.01	9.99	18.50	0	2.18	0.00	24.77	0.00
10yr3d	NSLRWCD C37	BASE	142.26	9.99	18.50	0	2.18	0.00	24.81	0.00
10yr3d	NSLRWCD C37	BASE	142.51	9.99	18.50	0	2.17	0.00	24.86	0.00
10yr3d	NSLRWCD C37	BASE	142.76	9.98	18.50	0	2.16	0.00	24.90	0.00
10yr3d	NSLRWCD C37	BASE	143.01	9.98	18.50	0	2.16	0.00	24.95	0.00
10yr3d	NSLRWCD C37	BASE	143.26	9.98	18.50	0	2.15	0.00	24.99	0.00
10yr3d	NSLRWCD C37	BASE	143.51	9.98	18.50	0	2.14	0.00	25.04	0.00
10yr3d	NSLRWCD C37	BASE	143.76	9.97	18.50	0	2.14	0.00	25.08	0.00
10yr3d	NSLRWCD C37	BASE	144.01	9.97	18.50	0	2.13	0.00	25.12	0.00
10yr3d	NSLRWCD C37	BASE	144.26	9.97	18.50	0	2.12	0.00	25.17	0.00
10yr3d	NSLRWCD C37	BASE	144.51	9.96	18.50	0	2.12	0.00	25.21	0.00
10yr3d	NSLRWCD C37	BASE	144.76	9.96	18.50	0	2.11	0.00	25.26	0.00
10yr3d	NSLRWCD C37	BASE	145.01	9.96	18.50	0	2.11	0.00	25.30	0.00
10yr3d	NSLRWCD C37	BASE	145.26	9.96	18.50	0	2.10	0.00	25.34	0.00
10yr3d	NSLRWCD C37	BASE	145.51	9.95	18.50	0	2.09	0.00	25.39	0.00
10yr3d	NSLRWCD C37	BASE	145.76	9.95	18.50	0	2.09	0.00	25.43	0.00
10yr3d	NSLRWCD C37	BASE	146.01	9.95	18.50	0	2.08	0.00	25.47	0.00
10yr3d	NSLRWCD C37	BASE	146.26	9.95	18.50	0	2.07	0.00	25.52	0.00
10yr3d	NSLRWCD C37	BASE	146.51	9.94	18.50	0	2.07	0.00	25.56	0.00
10yr3d	NSLRWCD C37	BASE	146.76	9.94	18.50	0	2.06	0.00	25.60	0.00
10yr3d	NSLRWCD C37	BASE	147.01	9.94	18.50	0	2.05	0.00	25.64	0.00
10yr3d	NSLRWCD C37	BASE	147.26	9.94	18.50	0	2.05	0.00	25.69	0.00
10yr3d	NSLRWCD C37	BASE	147.51	9.93	18.50	0	2.04	0.00	25.73	0.00
10yr3d	NSLRWCD C37	BASE	147.76	9.93	18.50	0	2.04	0.00	25.77	0.00
10yr3d	NSLRWCD C37	BASE	148.01	9.93	18.50	0	2.03	0.00	25.81	0.00
10yr3d	NSLRWCD C37	BASE	148.26	9.93	18.50	0	2.02	0.00	25.85	0.00
10yr3d	NSLRWCD C37	BASE	148.51	9.92	18.50	0	2.02	0.00	25.90	0.00
10yr3d	NSLRWCD C37	BASE	148.76	9.92	18.50	0	2.01	0.00	25.94	0.00
10yr3d	NSLRWCD C37	BASE	149.01	9.92	18.50	0	2.00	0.00	25.98	0.00
10yr3d	NSLRWCD C37	BASE	149.26	9.92	18.50	0	2.00	0.00	26.02	0.00
10yr3d	NSLRWCD C37	BASE	149.51	9.91	18.50	0	1.99	0.00	26.06	0.00
10yr3d	NSLRWCD C37	BASE	149.76	9.91	18.50	0	1.99	0.00	26.10	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	150.01	9.91	18.50	0	1.98	0.00	26.14	0.00
10yr3d	NSLRWCD C37	BASE	150.26	9.91	18.50	0	1.97	0.00	26.18	0.00
10yr3d	NSLRWCD C37	BASE	150.51	9.90	18.50	0	1.97	0.00	26.22	0.00
10yr3d	NSLRWCD C37	BASE	150.76	9.90	18.50	0	1.96	0.00	26.27	0.00
10yr3d	NSLRWCD C37	BASE	151.01	9.90	18.50	0	1.95	0.00	26.31	0.00
10yr3d	NSLRWCD C37	BASE	151.26	9.90	18.50	0	1.95	0.00	26.35	0.00
10yr3d	NSLRWCD C37	BASE	151.51	9.89	18.50	0	1.94	0.00	26.39	0.00
10yr3d	NSLRWCD C37	BASE	151.76	9.89	18.50	0	1.94	0.00	26.43	0.00
10yr3d	NSLRWCD C37	BASE	152.01	9.89	18.50	0	1.93	0.00	26.47	0.00
10yr3d	NSLRWCD C37	BASE	152.26	9.89	18.50	0	1.92	0.00	26.51	0.00
10yr3d	NSLRWCD C37	BASE	152.51	9.88	18.50	0	1.92	0.00	26.55	0.00
10yr3d	NSLRWCD C37	BASE	152.76	9.88	18.50	0	1.91	0.00	26.59	0.00
10yr3d	NSLRWCD C37	BASE	153.01	9.88	18.50	0	1.90	0.00	26.62	0.00
10yr3d	NSLRWCD C37	BASE	153.26	9.88	18.50	0	1.90	0.00	26.66	0.00
10yr3d	NSLRWCD C37	BASE	153.51	9.87	18.50	0	1.89	0.00	26.70	0.00
10yr3d	NSLRWCD C37	BASE	153.76	9.87	18.50	0	1.89	0.00	26.74	0.00
10yr3d	NSLRWCD C37	BASE	154.01	9.87	18.50	0	1.88	0.00	26.78	0.00
10yr3d	NSLRWCD C37	BASE	154.26	9.87	18.50	0	1.87	0.00	26.82	0.00
10yr3d	NSLRWCD C37	BASE	154.51	9.86	18.50	0	1.87	0.00	26.86	0.00
10yr3d	NSLRWCD C37	BASE	154.76	9.86	18.50	0	1.86	0.00	26.90	0.00
10yr3d	NSLRWCD C37	BASE	155.01	9.86	18.50	0	1.86	0.00	26.94	0.00
10yr3d	NSLRWCD C37	BASE	155.26	9.86	18.50	0	1.85	0.00	26.97	0.00
10yr3d	NSLRWCD C37	BASE	155.51	9.85	18.50	0	1.84	0.00	27.01	0.00
10yr3d	NSLRWCD C37	BASE	155.76	9.85	18.50	0	1.84	0.00	27.05	0.00
10yr3d	NSLRWCD C37	BASE	156.01	9.85	18.50	0	1.83	0.00	27.09	0.00
10yr3d	NSLRWCD C37	BASE	156.26	9.85	18.50	0	1.83	0.00	27.13	0.00
10yr3d	NSLRWCD C37	BASE	156.51	9.84	18.50	0	1.82	0.00	27.16	0.00
10yr3d	NSLRWCD C37	BASE	156.76	9.84	18.50	0	1.81	0.00	27.20	0.00
10yr3d	NSLRWCD C37	BASE	157.01	9.84	18.50	0	1.81	0.00	27.24	0.00
10yr3d	NSLRWCD C37	BASE	157.26	9.84	18.50	0	1.80	0.00	27.28	0.00
10yr3d	NSLRWCD C37	BASE	157.51	9.83	18.50	0	1.79	0.00	27.31	0.00
10yr3d	NSLRWCD C37	BASE	157.76	9.83	18.50	0	1.79	0.00	27.35	0.00
10yr3d	NSLRWCD C37	BASE	158.01	9.83	18.50	0	1.78	0.00	27.39	0.00
10yr3d	NSLRWCD C37	BASE	158.26	9.83	18.50	0	1.78	0.00	27.42	0.00
10yr3d	NSLRWCD C37	BASE	158.51	9.82	18.50	0	1.77	0.00	27.46	0.00
10yr3d	NSLRWCD C37	BASE	158.76	9.82	18.50	0	1.76	0.00	27.50	0.00
10yr3d	NSLRWCD C37	BASE	159.01	9.82	18.50	0	1.76	0.00	27.53	0.00
10yr3d	NSLRWCD C37	BASE	159.26	9.82	18.50	0	1.75	0.00	27.57	0.00
10yr3d	NSLRWCD C37	BASE	159.51	9.81	18.50	0	1.75	0.00	27.61	0.00
10yr3d	NSLRWCD C37	BASE	159.76	9.81	18.50	0	1.74	0.00	27.64	0.00
10yr3d	NSLRWCD C37	BASE	160.01	9.81	18.50	0	1.73	0.00	27.68	0.00
10yr3d	NSLRWCD C37	BASE	160.26	9.81	18.50	0	1.73	0.00	27.71	0.00
10yr3d	NSLRWCD C37	BASE	160.51	9.80	18.50	0	1.72	0.00	27.75	0.00
10yr3d	NSLRWCD C37	BASE	160.76	9.80	18.50	0	1.72	0.00	27.78	0.00
10yr3d	NSLRWCD C37	BASE	161.01	9.80	18.50	0	1.71	0.00	27.82	0.00
10yr3d	NSLRWCD C37	BASE	161.26	9.80	18.50	0	1.71	0.00	27.85	0.00
10yr3d	NSLRWCD C37	BASE	161.51	9.79	18.50	0	1.70	0.00	27.89	0.00
10yr3d	NSLRWCD C37	BASE	161.76	9.79	18.50	0	1.69	0.00	27.93	0.00
10yr3d	NSLRWCD C37	BASE	162.01	9.79	18.50	0	1.69	0.00	27.96	0.00
10yr3d	NSLRWCD C37	BASE	162.26	9.78	18.50	0	1.68	0.00	27.99	0.00
10yr3d	NSLRWCD C37	BASE	162.51	9.78	18.50	0	1.68	0.00	28.03	0.00
10yr3d	NSLRWCD C37	BASE	162.76	9.78	18.50	0	1.67	0.00	28.06	0.00
10yr3d	NSLRWCD C37	BASE	163.01	9.78	18.50	0	1.66	0.00	28.10	0.00
10yr3d	NSLRWCD C37	BASE	163.26	9.77	18.50	0	1.66	0.00	28.13	0.00
10yr3d	NSLRWCD C37	BASE	163.51	9.77	18.50	0	1.65	0.00	28.17	0.00
10yr3d	NSLRWCD C37	BASE	163.76	9.77	18.50	0	1.65	0.00	28.20	0.00
10yr3d	NSLRWCD C37	BASE	164.01	9.77	18.50	0	1.64	0.00	28.24	0.00
10yr3d	NSLRWCD C37	BASE	164.26	9.76	18.50	0	1.64	0.00	28.27	0.00
10yr3d	NSLRWCD C37	BASE	164.51	9.76	18.50	0	1.63	0.00	28.30	0.00
10yr3d	NSLRWCD C37	BASE	164.76	9.76	18.50	0	1.62	0.00	28.34	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	165.01	9.76	18.50	0	1.62	0.00	28.37	0.00
10yr3d	NSLRWCD C37	BASE	165.26	9.75	18.50	0	1.61	0.00	28.40	0.00
10yr3d	NSLRWCD C37	BASE	165.51	9.75	18.50	0	1.61	0.00	28.44	0.00
10yr3d	NSLRWCD C37	BASE	165.76	9.75	18.50	0	1.60	0.00	28.47	0.00
10yr3d	NSLRWCD C37	BASE	166.01	9.75	18.50	0	1.59	0.00	28.50	0.00
10yr3d	NSLRWCD C37	BASE	166.26	9.74	18.50	0	1.59	0.00	28.54	0.00
10yr3d	NSLRWCD C37	BASE	166.51	9.74	18.50	0	1.58	0.00	28.57	0.00
10yr3d	NSLRWCD C37	BASE	166.76	9.74	18.50	0	1.58	0.00	28.60	0.00
10yr3d	NSLRWCD C37	BASE	167.01	9.74	18.50	0	1.57	0.00	28.63	0.00
10yr3d	NSLRWCD C37	BASE	167.26	9.73	18.50	0	1.57	0.00	28.67	0.00
10yr3d	NSLRWCD C37	BASE	167.51	9.73	18.50	0	1.56	0.00	28.70	0.00
10yr3d	NSLRWCD C37	BASE	167.76	9.73	18.50	0	1.55	0.00	28.73	0.00
10yr3d	NSLRWCD C37	BASE	168.01	9.73	18.50	0	1.55	0.00	28.76	0.00
10yr3d	NSLRWCD C37	BASE	168.26	9.72	18.50	0	1.54	0.00	28.79	0.00
10yr3d	NSLRWCD C37	BASE	168.51	9.72	18.50	0	1.53	0.00	28.83	0.00
10yr3d	NSLRWCD C37	BASE	168.76	9.72	18.50	0	1.53	0.00	28.86	0.00
10yr3d	NSLRWCD C37	BASE	169.01	9.72	18.50	0	1.52	0.00	28.89	0.00
10yr3d	NSLRWCD C37	BASE	169.26	9.71	18.50	0	1.51	0.00	28.92	0.00
10yr3d	NSLRWCD C37	BASE	169.51	9.71	18.50	0	1.50	0.00	28.95	0.00
10yr3d	NSLRWCD C37	BASE	169.76	9.71	18.50	0	1.50	0.00	28.98	0.00
10yr3d	NSLRWCD C37	BASE	170.01	9.71	18.50	0	1.49	0.00	29.01	0.00
10yr3d	NSLRWCD C37	BASE	170.26	9.70	18.50	0	1.48	0.00	29.04	0.00
10yr3d	NSLRWCD C37	BASE	170.51	9.70	18.50	0	1.47	0.00	29.07	0.00
10yr3d	NSLRWCD C37	BASE	170.76	9.70	18.50	0	1.47	0.00	29.11	0.00
10yr3d	NSLRWCD C37	BASE	171.01	9.70	18.50	0	1.46	0.00	29.14	0.00
10yr3d	NSLRWCD C37	BASE	171.26	9.69	18.50	0	1.45	0.00	29.17	0.00
10yr3d	NSLRWCD C37	BASE	171.51	9.69	18.50	0	1.45	0.00	29.20	0.00
10yr3d	NSLRWCD C37	BASE	171.76	9.69	18.50	0	1.44	0.00	29.23	0.00
10yr3d	NSLRWCD C37	BASE	172.01	9.69	18.50	0	1.43	0.00	29.25	0.00
10yr3d	NSLRWCD C37	BASE	172.26	9.68	18.50	0	1.43	0.00	29.28	0.00
10yr3d	NSLRWCD C37	BASE	172.51	9.68	18.50	0	1.42	0.00	29.31	0.00
10yr3d	NSLRWCD C37	BASE	172.76	9.68	18.50	0	1.41	0.00	29.34	0.00
10yr3d	NSLRWCD C37	BASE	173.01	9.68	18.50	0	1.41	0.00	29.37	0.00
10yr3d	NSLRWCD C37	BASE	173.26	9.67	18.50	0	1.40	0.00	29.40	0.00
10yr3d	NSLRWCD C37	BASE	173.51	9.67	18.50	0	1.39	0.00	29.43	0.00
10yr3d	NSLRWCD C37	BASE	173.76	9.67	18.50	0	1.39	0.00	29.46	0.00
10yr3d	NSLRWCD C37	BASE	174.01	9.67	18.50	0	1.38	0.00	29.49	0.00
10yr3d	NSLRWCD C37	BASE	174.26	9.66	18.50	0	1.38	0.00	29.52	0.00
10yr3d	NSLRWCD C37	BASE	174.51	9.66	18.50	0	1.37	0.00	29.54	0.00
10yr3d	NSLRWCD C37	BASE	174.76	9.66	18.50	0	1.36	0.00	29.57	0.00
10yr3d	NSLRWCD C37	BASE	175.01	9.66	18.50	0	1.36	0.00	29.60	0.00
10yr3d	NSLRWCD C37	BASE	175.26	9.65	18.50	0	1.35	0.00	29.63	0.00
10yr3d	NSLRWCD C37	BASE	175.51	9.65	18.50	0	1.35	0.00	29.66	0.00
10yr3d	NSLRWCD C37	BASE	175.76	9.65	18.50	0	1.34	0.00	29.68	0.00
10yr3d	NSLRWCD C37	BASE	176.01	9.65	18.50	0	1.33	0.00	29.71	0.00
10yr3d	NSLRWCD C37	BASE	176.26	9.64	18.50	0	1.33	0.00	29.74	0.00
10yr3d	NSLRWCD C37	BASE	176.51	9.64	18.50	0	1.32	0.00	29.77	0.00
10yr3d	NSLRWCD C37	BASE	176.76	9.64	18.50	0	1.31	0.00	29.79	0.00
10yr3d	NSLRWCD C37	BASE	177.01	9.64	18.50	0	1.31	0.00	29.82	0.00
10yr3d	NSLRWCD C37	BASE	177.26	9.63	18.50	0	1.30	0.00	29.85	0.00
10yr3d	NSLRWCD C37	BASE	177.51	9.63	18.50	0	1.30	0.00	29.87	0.00
10yr3d	NSLRWCD C37	BASE	177.76	9.63	18.50	0	1.29	0.00	29.90	0.00
10yr3d	NSLRWCD C37	BASE	178.01	9.63	18.50	0	1.28	0.00	29.93	0.00
10yr3d	NSLRWCD C37	BASE	178.26	9.62	18.50	0	1.28	0.00	29.95	0.00
10yr3d	NSLRWCD C37	BASE	178.51	9.62	18.50	0	1.27	0.00	29.98	0.00
10yr3d	NSLRWCD C37	BASE	178.76	9.62	18.50	0	1.27	0.00	30.01	0.00
10yr3d	NSLRWCD C37	BASE	179.01	9.62	18.50	0	1.26	0.00	30.03	0.00
10yr3d	NSLRWCD C37	BASE	179.26	9.61	18.50	0	1.25	0.00	30.06	0.00
10yr3d	NSLRWCD C37	BASE	179.51	9.61	18.50	0	1.25	0.00	30.09	0.00
10yr3d	NSLRWCD C37	BASE	179.76	9.61	18.50	0	1.24	0.00	30.11	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	180.01	9.60	18.50	0	1.24	0.00	30.14	0.00
10yr3d	NSLRWCD C37	BASE	180.26	9.60	18.50	0	1.23	0.00	30.16	0.00
10yr3d	NSLRWCD C37	BASE	180.51	9.60	18.50	0	1.23	0.00	30.19	0.00
10yr3d	NSLRWCD C37	BASE	180.76	9.60	18.50	0	1.22	0.00	30.21	0.00
10yr3d	NSLRWCD C37	BASE	181.01	9.59	18.50	0	1.22	0.00	30.24	0.00
10yr3d	NSLRWCD C37	BASE	181.26	9.59	18.50	0	1.21	0.00	30.26	0.00
10yr3d	NSLRWCD C37	BASE	181.51	9.59	18.50	0	1.21	0.00	30.29	0.00
10yr3d	NSLRWCD C37	BASE	181.76	9.59	18.50	0	1.20	0.00	30.31	0.00
10yr3d	NSLRWCD C37	BASE	182.01	9.58	18.50	0	1.20	0.00	30.34	0.00
10yr3d	NSLRWCD C37	BASE	182.26	9.58	18.50	0	1.19	0.00	30.36	0.00
10yr3d	NSLRWCD C37	BASE	182.51	9.58	18.50	0	1.19	0.00	30.39	0.00
10yr3d	NSLRWCD C37	BASE	182.76	9.58	18.50	0	1.18	0.00	30.41	0.00
10yr3d	NSLRWCD C37	BASE	183.01	9.57	18.50	0	1.18	0.00	30.44	0.00
10yr3d	NSLRWCD C37	BASE	183.26	9.57	18.50	0	1.17	0.00	30.46	0.00
10yr3d	NSLRWCD C37	BASE	183.51	9.57	18.50	0	1.17	0.00	30.48	0.00
10yr3d	NSLRWCD C37	BASE	183.76	9.57	18.50	0	1.17	0.00	30.51	0.00
10yr3d	NSLRWCD C37	BASE	184.01	9.56	18.50	0	1.16	0.00	30.53	0.00
10yr3d	NSLRWCD C37	BASE	184.26	9.56	18.50	0	1.16	0.00	30.56	0.00
10yr3d	NSLRWCD C37	BASE	184.51	9.56	18.50	0	1.15	0.00	30.58	0.00
10yr3d	NSLRWCD C37	BASE	184.76	9.56	18.50	0	1.15	0.00	30.60	0.00
10yr3d	NSLRWCD C37	BASE	185.01	9.55	18.50	0	1.14	0.00	30.63	0.00
10yr3d	NSLRWCD C37	BASE	185.26	9.55	18.50	0	1.14	0.00	30.65	0.00
10yr3d	NSLRWCD C37	BASE	185.51	9.55	18.50	0	1.14	0.00	30.68	0.00
10yr3d	NSLRWCD C37	BASE	185.76	9.55	18.50	0	1.13	0.00	30.70	0.00
10yr3d	NSLRWCD C37	BASE	186.01	9.54	18.50	0	1.13	0.00	30.72	0.00
10yr3d	NSLRWCD C37	BASE	186.26	9.54	18.50	0	1.12	0.00	30.75	0.00
10yr3d	NSLRWCD C37	BASE	186.51	9.54	18.50	0	1.12	0.00	30.77	0.00
10yr3d	NSLRWCD C37	BASE	186.76	9.54	18.50	0	1.12	0.00	30.79	0.00
10yr3d	NSLRWCD C37	BASE	187.01	9.53	18.50	0	1.11	0.00	30.81	0.00
10yr3d	NSLRWCD C37	BASE	187.26	9.53	18.50	0	1.11	0.00	30.84	0.00
10yr3d	NSLRWCD C37	BASE	187.51	9.53	18.50	0	1.11	0.00	30.86	0.00
10yr3d	NSLRWCD C37	BASE	187.76	9.53	18.50	0	1.10	0.00	30.88	0.00
10yr3d	NSLRWCD C37	BASE	188.01	9.52	18.50	0	1.10	0.00	30.91	0.00
10yr3d	NSLRWCD C37	BASE	188.26	9.52	18.50	0	1.09	0.00	30.93	0.00
10yr3d	NSLRWCD C37	BASE	188.51	9.52	18.50	0	1.09	0.00	30.95	0.00
10yr3d	NSLRWCD C37	BASE	188.76	9.52	18.50	0	1.09	0.00	30.97	0.00
10yr3d	NSLRWCD C37	BASE	189.01	9.51	18.50	0	1.08	0.00	31.00	0.00
10yr3d	NSLRWCD C37	BASE	189.26	9.51	18.50	0	1.08	0.00	31.02	0.00
10yr3d	NSLRWCD C37	BASE	189.51	9.51	18.50	0	1.08	0.00	31.04	0.00
10yr3d	NSLRWCD C37	BASE	189.76	9.51	18.50	0	1.07	0.00	31.06	0.00
10yr3d	NSLRWCD C37	BASE	190.01	9.50	18.50	0	1.07	0.00	31.09	0.00
10yr3d	NSLRWCD C37	BASE	190.26	9.50	18.50	0	1.07	0.00	31.11	0.00
10yr3d	NSLRWCD C37	BASE	190.51	9.50	18.50	0	1.06	0.00	31.13	0.00
10yr3d	NSLRWCD C37	BASE	190.76	9.50	18.50	0	1.06	0.00	31.15	0.00
10yr3d	NSLRWCD C37	BASE	191.01	9.49	18.50	0	1.06	0.00	31.17	0.00
10yr3d	NSLRWCD C37	BASE	191.26	9.49	18.50	0	1.05	0.00	31.19	0.00
10yr3d	NSLRWCD C37	BASE	191.51	9.49	18.50	0	1.05	0.00	31.22	0.00
10yr3d	NSLRWCD C37	BASE	191.76	9.49	18.50	0	1.05	0.00	31.24	0.00
10yr3d	NSLRWCD C37	BASE	192.01	9.48	18.50	0	1.04	0.00	31.26	0.00
10yr3d	NSLRWCD C37	BASE	192.26	9.48	18.50	0	1.04	0.00	31.28	0.00
10yr3d	NSLRWCD C37	BASE	192.51	9.48	18.50	0	1.04	0.00	31.30	0.00
10yr3d	NSLRWCD C37	BASE	192.76	9.48	18.50	0	1.03	0.00	31.32	0.00
10yr3d	NSLRWCD C37	BASE	193.01	9.47	18.50	0	1.03	0.00	31.35	0.00
10yr3d	NSLRWCD C37	BASE	193.26	9.47	18.50	0	1.03	0.00	31.37	0.00
10yr3d	NSLRWCD C37	BASE	193.51	9.47	18.50	0	1.03	0.00	31.39	0.00
10yr3d	NSLRWCD C37	BASE	193.76	9.47	18.50	0	1.02	0.00	31.41	0.00
10yr3d	NSLRWCD C37	BASE	194.01	9.46	18.50	0	1.02	0.00	31.43	0.00
10yr3d	NSLRWCD C37	BASE	194.26	9.46	18.50	0	1.02	0.00	31.45	0.00
10yr3d	NSLRWCD C37	BASE	194.51	9.46	18.50	0	1.01	0.00	31.47	0.00
10yr3d	NSLRWCD C37	BASE	194.76	9.46	18.50	0	1.01	0.00	31.49	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	195.01	9.45	18.50	0	1.01	0.00	31.51	0.00
10yr3d	NSLRWCD C37	BASE	195.26	9.45	18.50	0	1.01	0.00	31.53	0.00
10yr3d	NSLRWCD C37	BASE	195.51	9.45	18.50	0	1.00	0.00	31.56	0.00
10yr3d	NSLRWCD C37	BASE	195.76	9.45	18.50	0	1.00	0.00	31.58	0.00
10yr3d	NSLRWCD C37	BASE	196.01	9.44	18.50	0	1.00	0.00	31.60	0.00
10yr3d	NSLRWCD C37	BASE	196.26	9.44	18.50	0	0.99	0.00	31.62	0.00
10yr3d	NSLRWCD C37	BASE	196.51	9.44	18.50	0	0.99	0.00	31.64	0.00
10yr3d	NSLRWCD C37	BASE	196.76	9.44	18.50	0	0.99	0.00	31.66	0.00
10yr3d	NSLRWCD C37	BASE	197.01	9.43	18.50	0	0.99	0.00	31.68	0.00
10yr3d	NSLRWCD C37	BASE	197.26	9.43	18.50	0	0.98	0.00	31.70	0.00
10yr3d	NSLRWCD C37	BASE	197.51	9.43	18.50	0	0.98	0.00	31.72	0.00
10yr3d	NSLRWCD C37	BASE	197.76	9.42	18.50	0	0.98	0.00	31.74	0.00
10yr3d	NSLRWCD C37	BASE	198.01	9.42	18.50	0	0.98	0.00	31.76	0.00
10yr3d	NSLRWCD C37	BASE	198.26	9.42	18.50	0	0.97	0.00	31.78	0.00
10yr3d	NSLRWCD C37	BASE	198.51	9.42	18.50	0	0.97	0.00	31.80	0.00
10yr3d	NSLRWCD C37	BASE	198.76	9.41	18.50	0	0.97	0.00	31.82	0.00
10yr3d	NSLRWCD C37	BASE	199.01	9.41	18.50	0	0.97	0.00	31.84	0.00
10yr3d	NSLRWCD C37	BASE	199.26	9.41	18.50	0	0.96	0.00	31.86	0.00
10yr3d	NSLRWCD C37	BASE	199.51	9.41	18.50	0	0.96	0.00	31.88	0.00
10yr3d	NSLRWCD C37	BASE	199.76	9.40	18.50	0	0.96	0.00	31.90	0.00
10yr3d	NSLRWCD C37	BASE	200.01	9.40	18.50	0	0.96	0.00	31.92	0.00
10yr3d	NSLRWCD C37	BASE	200.26	9.40	18.50	0	0.95	0.00	31.94	0.00
10yr3d	NSLRWCD C37	BASE	200.51	9.40	18.50	0	0.95	0.00	31.96	0.00
10yr3d	NSLRWCD C37	BASE	200.76	9.39	18.50	0	0.95	0.00	31.98	0.00
10yr3d	NSLRWCD C37	BASE	201.01	9.39	18.50	0	0.95	0.00	32.00	0.00
10yr3d	NSLRWCD C37	BASE	201.26	9.39	18.50	0	0.95	0.00	32.02	0.00
10yr3d	NSLRWCD C37	BASE	201.51	9.39	18.50	0	0.94	0.00	32.04	0.00
10yr3d	NSLRWCD C37	BASE	201.76	9.38	18.50	0	0.94	0.00	32.06	0.00
10yr3d	NSLRWCD C37	BASE	202.01	9.38	18.50	0	0.94	0.00	32.08	0.00
10yr3d	NSLRWCD C37	BASE	202.26	9.38	18.50	0	0.94	0.00	32.10	0.00
10yr3d	NSLRWCD C37	BASE	202.51	9.38	18.50	0	0.93	0.00	32.12	0.00
10yr3d	NSLRWCD C37	BASE	202.76	9.37	18.50	0	0.93	0.00	32.13	0.00
10yr3d	NSLRWCD C37	BASE	203.01	9.37	18.50	0	0.93	0.00	32.15	0.00
10yr3d	NSLRWCD C37	BASE	203.26	9.37	18.50	0	0.93	0.00	32.17	0.00
10yr3d	NSLRWCD C37	BASE	203.51	9.37	18.50	0	0.93	0.00	32.19	0.00
10yr3d	NSLRWCD C37	BASE	203.76	9.36	18.50	0	0.92	0.00	32.21	0.00
10yr3d	NSLRWCD C37	BASE	204.01	9.36	18.50	0	0.92	0.00	32.23	0.00
10yr3d	NSLRWCD C37	BASE	204.26	9.36	18.50	0	0.92	0.00	32.25	0.00
10yr3d	NSLRWCD C37	BASE	204.51	9.36	18.50	0	0.92	0.00	32.27	0.00
10yr3d	NSLRWCD C37	BASE	204.76	9.35	18.50	0	0.91	0.00	32.29	0.00
10yr3d	NSLRWCD C37	BASE	205.01	9.35	18.50	0	0.91	0.00	32.31	0.00
10yr3d	NSLRWCD C37	BASE	205.26	9.35	18.50	0	0.91	0.00	32.32	0.00
10yr3d	NSLRWCD C37	BASE	205.51	9.35	18.50	0	0.91	0.00	32.34	0.00
10yr3d	NSLRWCD C37	BASE	205.76	9.34	18.50	0	0.91	0.00	32.36	0.00
10yr3d	NSLRWCD C37	BASE	206.01	9.34	18.50	0	0.90	0.00	32.38	0.00
10yr3d	NSLRWCD C37	BASE	206.26	9.34	18.50	0	0.90	0.00	32.40	0.00
10yr3d	NSLRWCD C37	BASE	206.51	9.34	18.50	0	0.90	0.00	32.42	0.00
10yr3d	NSLRWCD C37	BASE	206.76	9.33	18.50	0	0.90	0.00	32.44	0.00
10yr3d	NSLRWCD C37	BASE	207.01	9.33	18.50	0	0.90	0.00	32.46	0.00
10yr3d	NSLRWCD C37	BASE	207.26	9.33	18.50	0	0.89	0.00	32.47	0.00
10yr3d	NSLRWCD C37	BASE	207.51	9.33	18.50	0	0.89	0.00	32.49	0.00
10yr3d	NSLRWCD C37	BASE	207.76	9.32	18.50	0	0.89	0.00	32.51	0.00
10yr3d	NSLRWCD C37	BASE	208.01	9.32	18.50	0	0.89	0.00	32.53	0.00
10yr3d	NSLRWCD C37	BASE	208.26	9.32	18.50	0	0.89	0.00	32.55	0.00
10yr3d	NSLRWCD C37	BASE	208.51	9.32	18.50	0	0.89	0.00	32.57	0.00
10yr3d	NSLRWCD C37	BASE	208.76	9.31	18.50	0	0.88	0.00	32.58	0.00
10yr3d	NSLRWCD C37	BASE	209.01	9.31	18.50	0	0.88	0.00	32.60	0.00
10yr3d	NSLRWCD C37	BASE	209.26	9.31	18.50	0	0.88	0.00	32.62	0.00
10yr3d	NSLRWCD C37	BASE	209.51	9.31	18.50	0	0.88	0.00	32.64	0.00
10yr3d	NSLRWCD C37	BASE	209.76	9.30	18.50	0	0.88	0.00	32.66	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	210.01	9.30	18.50	0	0.87	0.00	32.68	0.00
10yr3d	NSLRWCD C37	BASE	210.26	9.30	18.50	0	0.87	0.00	32.69	0.00
10yr3d	NSLRWCD C37	BASE	210.51	9.30	18.50	0	0.87	0.00	32.71	0.00
10yr3d	NSLRWCD C37	BASE	210.76	9.29	18.50	0	0.87	0.00	32.73	0.00
10yr3d	NSLRWCD C37	BASE	211.01	9.29	18.50	0	0.87	0.00	32.75	0.00
10yr3d	NSLRWCD C37	BASE	211.26	9.29	18.50	0	0.87	0.00	32.76	0.00
10yr3d	NSLRWCD C37	BASE	211.51	9.29	18.50	0	0.86	0.00	32.78	0.00
10yr3d	NSLRWCD C37	BASE	211.76	9.28	18.50	0	0.86	0.00	32.80	0.00
10yr3d	NSLRWCD C37	BASE	212.01	9.28	18.50	0	0.86	0.00	32.82	0.00
10yr3d	NSLRWCD C37	BASE	212.26	9.28	18.50	0	0.86	0.00	32.84	0.00
10yr3d	NSLRWCD C37	BASE	212.51	9.28	18.50	0	0.86	0.00	32.85	0.00
10yr3d	NSLRWCD C37	BASE	212.76	9.27	18.50	0	0.85	0.00	32.87	0.00
10yr3d	NSLRWCD C37	BASE	213.01	9.27	18.50	0	0.85	0.00	32.89	0.00
10yr3d	NSLRWCD C37	BASE	213.26	9.27	18.50	0	0.85	0.00	32.91	0.00
10yr3d	NSLRWCD C37	BASE	213.51	9.27	18.50	0	0.85	0.00	32.92	0.00
10yr3d	NSLRWCD C37	BASE	213.76	9.26	18.50	0	0.85	0.00	32.94	0.00
10yr3d	NSLRWCD C37	BASE	214.01	9.26	18.50	0	0.85	0.00	32.96	0.00
10yr3d	NSLRWCD C37	BASE	214.26	9.26	18.50	0	0.84	0.00	32.98	0.00
10yr3d	NSLRWCD C37	BASE	214.51	9.26	18.50	0	0.84	0.00	32.99	0.00
10yr3d	NSLRWCD C37	BASE	214.76	9.25	18.50	0	0.84	0.00	33.01	0.00
10yr3d	NSLRWCD C37	BASE	215.01	9.25	18.50	0	0.84	0.00	33.03	0.00
10yr3d	NSLRWCD C37	BASE	215.26	9.25	18.50	0	0.84	0.00	33.05	0.00
10yr3d	NSLRWCD C37	BASE	215.51	9.25	18.50	0	0.84	0.00	33.06	0.00
10yr3d	NSLRWCD C37	BASE	215.76	9.24	18.50	0	0.83	0.00	33.08	0.00
10yr3d	NSLRWCD C37	BASE	216.01	9.24	18.50	0	0.83	0.00	33.10	0.00
10yr3d	NSLRWCD C37	BASE	216.26	9.24	18.50	0	0.83	0.00	33.12	0.00
10yr3d	NSLRWCD C37	BASE	216.51	9.23	18.50	0	0.83	0.00	33.13	0.00
10yr3d	NSLRWCD C37	BASE	216.76	9.23	18.50	0	0.83	0.00	33.15	0.00
10yr3d	NSLRWCD C37	BASE	217.01	9.23	18.50	0	0.83	0.00	33.17	0.00
10yr3d	NSLRWCD C37	BASE	217.26	9.23	18.50	0	0.82	0.00	33.18	0.00
10yr3d	NSLRWCD C37	BASE	217.51	9.22	18.50	0	0.82	0.00	33.20	0.00
10yr3d	NSLRWCD C37	BASE	217.76	9.22	18.50	0	0.82	0.00	33.22	0.00
10yr3d	NSLRWCD C37	BASE	218.01	9.22	18.50	0	0.82	0.00	33.23	0.00
10yr3d	NSLRWCD C37	BASE	218.26	9.22	18.50	0	0.82	0.00	33.25	0.00
10yr3d	NSLRWCD C37	BASE	218.51	9.21	18.50	0	0.82	0.00	33.27	0.00
10yr3d	NSLRWCD C37	BASE	218.76	9.21	18.50	0	0.82	0.00	33.29	0.00
10yr3d	NSLRWCD C37	BASE	219.01	9.21	18.50	0	0.81	0.00	33.30	0.00
10yr3d	NSLRWCD C37	BASE	219.26	9.21	18.50	0	0.81	0.00	33.32	0.00
10yr3d	NSLRWCD C37	BASE	219.51	9.20	18.50	0	0.81	0.00	33.34	0.00
10yr3d	NSLRWCD C37	BASE	219.76	9.20	18.50	0	0.81	0.00	33.35	0.00
10yr3d	NSLRWCD C37	BASE	220.01	9.20	18.50	0	0.81	0.00	33.37	0.00
10yr3d	NSLRWCD C37	BASE	220.26	9.20	18.50	0	0.81	0.00	33.39	0.00
10yr3d	NSLRWCD C37	BASE	220.51	9.19	18.50	0	0.80	0.00	33.40	0.00
10yr3d	NSLRWCD C37	BASE	220.76	9.19	18.50	0	0.80	0.00	33.42	0.00
10yr3d	NSLRWCD C37	BASE	221.01	9.19	18.50	0	0.80	0.00	33.44	0.00
10yr3d	NSLRWCD C37	BASE	221.26	9.19	18.50	0	0.80	0.00	33.45	0.00
10yr3d	NSLRWCD C37	BASE	221.51	9.18	18.50	0	0.80	0.00	33.47	0.00
10yr3d	NSLRWCD C37	BASE	221.76	9.18	18.50	0	0.80	0.00	33.49	0.00
10yr3d	NSLRWCD C37	BASE	222.01	9.18	18.50	0	0.80	0.00	33.50	0.00
10yr3d	NSLRWCD C37	BASE	222.26	9.18	18.50	0	0.79	0.00	33.52	0.00
10yr3d	NSLRWCD C37	BASE	222.51	9.17	18.50	0	0.79	0.00	33.53	0.00
10yr3d	NSLRWCD C37	BASE	222.76	9.17	18.50	0	0.79	0.00	33.55	0.00
10yr3d	NSLRWCD C37	BASE	223.01	9.17	18.50	0	0.79	0.00	33.57	0.00
10yr3d	NSLRWCD C37	BASE	223.26	9.17	18.50	0	0.79	0.00	33.58	0.00
10yr3d	NSLRWCD C37	BASE	223.51	9.16	18.50	0	0.79	0.00	33.60	0.00
10yr3d	NSLRWCD C37	BASE	223.76	9.16	18.50	0	0.79	0.00	33.62	0.00
10yr3d	NSLRWCD C37	BASE	224.01	9.16	18.50	0	0.78	0.00	33.63	0.00
10yr3d	NSLRWCD C37	BASE	224.26	9.16	18.50	0	0.78	0.00	33.65	0.00
10yr3d	NSLRWCD C37	BASE	224.51	9.15	18.50	0	0.78	0.00	33.66	0.00
10yr3d	NSLRWCD C37	BASE	224.76	9.15	18.50	0	0.78	0.00	33.68	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	225.01	9.15	18.50	0	0.78	0.00	33.70	0.00
10yr3d	NSLRWCD C37	BASE	225.26	9.15	18.50	0	0.78	0.00	33.71	0.00
10yr3d	NSLRWCD C37	BASE	225.51	9.14	18.50	0	0.78	0.00	33.73	0.00
10yr3d	NSLRWCD C37	BASE	225.76	9.14	18.50	0	0.77	0.00	33.74	0.00
10yr3d	NSLRWCD C37	BASE	226.01	9.14	18.50	0	0.77	0.00	33.76	0.00
10yr3d	NSLRWCD C37	BASE	226.26	9.14	18.50	0	0.77	0.00	33.78	0.00
10yr3d	NSLRWCD C37	BASE	226.51	9.13	18.50	0	0.77	0.00	33.79	0.00
10yr3d	NSLRWCD C37	BASE	226.76	9.13	18.50	0	0.77	0.00	33.81	0.00
10yr3d	NSLRWCD C37	BASE	227.01	9.13	18.50	0	0.77	0.00	33.82	0.00
10yr3d	NSLRWCD C37	BASE	227.26	9.13	18.50	0	0.77	0.00	33.84	0.00
10yr3d	NSLRWCD C37	BASE	227.51	9.12	18.50	0	0.76	0.00	33.86	0.00
10yr3d	NSLRWCD C37	BASE	227.76	9.12	18.50	0	0.76	0.00	33.87	0.00
10yr3d	NSLRWCD C37	BASE	228.01	9.12	18.50	0	0.76	0.00	33.89	0.00
10yr3d	NSLRWCD C37	BASE	228.26	9.12	18.50	0	0.76	0.00	33.90	0.00
10yr3d	NSLRWCD C37	BASE	228.51	9.11	18.50	0	0.76	0.00	33.92	0.00
10yr3d	NSLRWCD C37	BASE	228.76	9.11	18.50	0	0.76	0.00	33.93	0.00
10yr3d	NSLRWCD C37	BASE	229.01	9.11	18.50	0	0.76	0.00	33.95	0.00
10yr3d	NSLRWCD C37	BASE	229.26	9.11	18.50	0	0.75	0.00	33.97	0.00
10yr3d	NSLRWCD C37	BASE	229.51	9.10	18.50	0	0.75	0.00	33.98	0.00
10yr3d	NSLRWCD C37	BASE	229.76	9.10	18.50	0	0.75	0.00	34.00	0.00
10yr3d	NSLRWCD C37	BASE	230.01	9.10	18.50	0	0.75	0.00	34.01	0.00
10yr3d	NSLRWCD C37	BASE	230.26	9.10	18.50	0	0.75	0.00	34.03	0.00
10yr3d	NSLRWCD C37	BASE	230.51	9.09	18.50	0	0.75	0.00	34.04	0.00
10yr3d	NSLRWCD C37	BASE	230.76	9.09	18.50	0	0.75	0.00	34.06	0.00
10yr3d	NSLRWCD C37	BASE	231.01	9.09	18.50	0	0.75	0.00	34.07	0.00
10yr3d	NSLRWCD C37	BASE	231.26	9.09	18.50	0	0.74	0.00	34.09	0.00
10yr3d	NSLRWCD C37	BASE	231.51	9.08	18.50	0	0.74	0.00	34.11	0.00
10yr3d	NSLRWCD C37	BASE	231.76	9.08	18.50	0	0.74	0.00	34.12	0.00
10yr3d	NSLRWCD C37	BASE	232.01	9.08	18.50	0	0.74	0.00	34.14	0.00
10yr3d	NSLRWCD C37	BASE	232.26	9.08	18.50	0	0.74	0.00	34.15	0.00
10yr3d	NSLRWCD C37	BASE	232.51	9.07	18.50	0	0.74	0.00	34.17	0.00
10yr3d	NSLRWCD C37	BASE	232.76	9.07	18.50	0	0.74	0.00	34.18	0.00
10yr3d	NSLRWCD C37	BASE	233.01	9.07	18.50	0	0.73	0.00	34.20	0.00
10yr3d	NSLRWCD C37	BASE	233.26	9.07	18.50	0	0.73	0.00	34.21	0.00
10yr3d	NSLRWCD C37	BASE	233.51	9.06	18.50	0	0.73	0.00	34.23	0.00
10yr3d	NSLRWCD C37	BASE	233.76	9.06	18.50	0	0.73	0.00	34.24	0.00
10yr3d	NSLRWCD C37	BASE	234.01	9.06	18.50	0	0.73	0.00	34.26	0.00
10yr3d	NSLRWCD C37	BASE	234.26	9.05	18.50	0	0.73	0.00	34.27	0.00
10yr3d	NSLRWCD C37	BASE	234.51	9.05	18.50	0	0.73	0.00	34.29	0.00
10yr3d	NSLRWCD C37	BASE	234.76	9.05	18.50	0	0.73	0.00	34.30	0.00
10yr3d	NSLRWCD C37	BASE	235.01	9.05	18.50	0	0.72	0.00	34.32	0.00
10yr3d	NSLRWCD C37	BASE	235.26	9.04	18.50	0	0.72	0.00	34.33	0.00
10yr3d	NSLRWCD C37	BASE	235.51	9.04	18.50	0	0.72	0.00	34.35	0.00
10yr3d	NSLRWCD C37	BASE	235.76	9.04	18.50	0	0.72	0.00	34.36	0.00
10yr3d	NSLRWCD C37	BASE	236.01	9.04	18.50	0	0.72	0.00	34.38	0.00
10yr3d	NSLRWCD C37	BASE	236.26	9.03	18.50	0	0.72	0.00	34.39	0.00
10yr3d	NSLRWCD C37	BASE	236.51	9.03	18.50	0	0.72	0.00	34.41	0.00
10yr3d	NSLRWCD C37	BASE	236.76	9.03	18.50	0	0.72	0.00	34.42	0.00
10yr3d	NSLRWCD C37	BASE	237.01	9.03	18.50	0	0.71	0.00	34.44	0.00
10yr3d	NSLRWCD C37	BASE	237.26	9.02	18.50	0	0.71	0.00	34.45	0.00
10yr3d	NSLRWCD C37	BASE	237.51	9.02	18.50	0	0.71	0.00	34.47	0.00
10yr3d	NSLRWCD C37	BASE	237.76	9.02	18.50	0	0.71	0.00	34.48	0.00
10yr3d	NSLRWCD C37	BASE	238.01	9.02	18.50	0	0.71	0.00	34.50	0.00
10yr3d	NSLRWCD C37	BASE	238.26	9.01	18.50	0	0.71	0.00	34.51	0.00
10yr3d	NSLRWCD C37	BASE	238.51	9.01	18.50	0	0.71	0.00	34.52	0.00
10yr3d	NSLRWCD C37	BASE	238.76	9.01	18.50	0	0.71	0.00	34.54	0.00
10yr3d	NSLRWCD C37	BASE	239.01	9.01	18.50	0	0.70	0.00	34.55	0.00
10yr3d	NSLRWCD C37	BASE	239.26	9.00	18.50	0	0.70	0.00	34.57	0.00
10yr3d	NSLRWCD C37	BASE	239.51	9.00	18.50	0	0.70	0.00	34.58	0.00
10yr3d	NSLRWCD C37	BASE	239.76	9.00	18.50	0	0.70	0.00	34.60	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	240.01	9.00	18.50	0	0.70	0.00	34.61	0.00
10yr3d	NSLRWCD C37	BASE	240.26	8.99	18.50	0	0.70	0.00	34.63	0.00
10yr3d	NSLRWCD C37	BASE	240.51	8.99	18.50	0	0.70	0.00	34.64	0.00
10yr3d	NSLRWCD C37	BASE	240.76	8.99	18.50	0	0.70	0.00	34.65	0.00
10yr3d	NSLRWCD C37	BASE	241.01	8.99	18.50	0	0.70	0.00	34.67	0.00
10yr3d	NSLRWCD C37	BASE	241.26	8.98	18.50	0	0.69	0.00	34.68	0.00
10yr3d	NSLRWCD C37	BASE	241.51	8.98	18.50	0	0.69	0.00	34.70	0.00
10yr3d	NSLRWCD C37	BASE	241.76	8.98	18.50	0	0.69	0.00	34.71	0.00
10yr3d	NSLRWCD C37	BASE	242.01	8.98	18.50	0	0.69	0.00	34.73	0.00
10yr3d	NSLRWCD C37	BASE	242.26	8.97	18.50	0	0.69	0.00	34.74	0.00
10yr3d	NSLRWCD C37	BASE	242.51	8.97	18.50	0	0.69	0.00	34.76	0.00
10yr3d	NSLRWCD C37	BASE	242.76	8.97	18.50	0	0.69	0.00	34.77	0.00
10yr3d	NSLRWCD C37	BASE	243.01	8.97	18.50	0	0.69	0.00	34.78	0.00
10yr3d	NSLRWCD C37	BASE	243.26	8.96	18.50	0	0.68	0.00	34.80	0.00
10yr3d	NSLRWCD C37	BASE	243.51	8.96	18.50	0	0.68	0.00	34.81	0.00
10yr3d	NSLRWCD C37	BASE	243.76	8.96	18.50	0	0.68	0.00	34.83	0.00
10yr3d	NSLRWCD C37	BASE	244.01	8.96	18.50	0	0.68	0.00	34.84	0.00
10yr3d	NSLRWCD C37	BASE	244.26	8.95	18.50	0	0.68	0.00	34.85	0.00
10yr3d	NSLRWCD C37	BASE	244.51	8.95	18.50	0	0.68	0.00	34.87	0.00
10yr3d	NSLRWCD C37	BASE	244.76	8.95	18.50	0	0.68	0.00	34.88	0.00
10yr3d	NSLRWCD C37	BASE	245.01	8.95	18.50	0	0.68	0.00	34.90	0.00
10yr3d	NSLRWCD C37	BASE	245.26	8.94	18.50	0	0.68	0.00	34.91	0.00
10yr3d	NSLRWCD C37	BASE	245.51	8.94	18.50	0	0.67	0.00	34.92	0.00
10yr3d	NSLRWCD C37	BASE	245.76	8.94	18.50	0	0.67	0.00	34.94	0.00
10yr3d	NSLRWCD C37	BASE	246.01	8.94	18.50	0	0.67	0.00	34.95	0.00
10yr3d	NSLRWCD C37	BASE	246.26	8.93	18.50	0	0.67	0.00	34.97	0.00
10yr3d	NSLRWCD C37	BASE	246.51	8.93	18.50	0	0.67	0.00	34.98	0.00
10yr3d	NSLRWCD C37	BASE	246.76	8.93	18.50	0	0.67	0.00	34.99	0.00
10yr3d	NSLRWCD C37	BASE	247.01	8.93	18.50	0	0.67	0.00	35.01	0.00
10yr3d	NSLRWCD C37	BASE	247.26	8.92	18.50	0	0.67	0.00	35.02	0.00
10yr3d	NSLRWCD C37	BASE	247.51	8.92	18.50	0	0.66	0.00	35.03	0.00
10yr3d	NSLRWCD C37	BASE	247.76	8.92	18.50	0	0.66	0.00	35.05	0.00
10yr3d	NSLRWCD C37	BASE	248.01	8.92	18.50	0	0.66	0.00	35.06	0.00
10yr3d	NSLRWCD C37	BASE	248.26	8.91	18.50	0	0.66	0.00	35.08	0.00
10yr3d	NSLRWCD C37	BASE	248.51	8.91	18.50	0	0.66	0.00	35.09	0.00
10yr3d	NSLRWCD C37	BASE	248.76	8.91	18.50	0	0.66	0.00	35.10	0.00
10yr3d	NSLRWCD C37	BASE	249.01	8.91	18.50	0	0.66	0.00	35.12	0.00
10yr3d	NSLRWCD C37	BASE	249.26	8.90	18.50	0	0.66	0.00	35.13	0.00
10yr3d	NSLRWCD C37	BASE	249.51	8.90	18.50	0	0.66	0.00	35.14	0.00
10yr3d	NSLRWCD C37	BASE	249.76	8.90	18.50	0	0.65	0.00	35.16	0.00
10yr3d	NSLRWCD C37	BASE	250.01	8.90	18.50	0	0.65	0.00	35.17	0.00
10yr3d	NSLRWCD C37	BASE	250.26	8.89	18.50	0	0.65	0.00	35.18	0.00
10yr3d	NSLRWCD C37	BASE	250.51	8.89	18.50	0	0.65	0.00	35.20	0.00
10yr3d	NSLRWCD C37	BASE	250.76	8.89	18.50	0	0.65	0.00	35.21	0.00
10yr3d	NSLRWCD C37	BASE	251.01	8.89	18.50	0	0.65	0.00	35.22	0.00
10yr3d	NSLRWCD C37	BASE	251.26	8.88	18.50	0	0.65	0.00	35.24	0.00
10yr3d	NSLRWCD C37	BASE	251.51	8.88	18.50	0	0.65	0.00	35.25	0.00
10yr3d	NSLRWCD C37	BASE	251.76	8.88	18.50	0	0.65	0.00	35.26	0.00
10yr3d	NSLRWCD C37	BASE	252.01	8.87	18.50	0	0.64	0.00	35.28	0.00
10yr3d	NSLRWCD C37	BASE	252.26	8.87	18.50	0	0.64	0.00	35.29	0.00
10yr3d	NSLRWCD C37	BASE	252.51	8.87	18.50	0	0.64	0.00	35.30	0.00
10yr3d	NSLRWCD C37	BASE	252.76	8.87	18.50	0	0.64	0.00	35.32	0.00
10yr3d	NSLRWCD C37	BASE	253.01	8.86	18.50	0	0.64	0.00	35.33	0.00
10yr3d	NSLRWCD C37	BASE	253.26	8.86	18.50	0	0.64	0.00	35.34	0.00
10yr3d	NSLRWCD C37	BASE	253.51	8.86	18.50	0	0.64	0.00	35.36	0.00
10yr3d	NSLRWCD C37	BASE	253.76	8.86	18.50	0	0.64	0.00	35.37	0.00
10yr3d	NSLRWCD C37	BASE	254.01	8.85	18.50	0	0.64	0.00	35.38	0.00
10yr3d	NSLRWCD C37	BASE	254.26	8.85	18.50	0	0.63	0.00	35.40	0.00
10yr3d	NSLRWCD C37	BASE	254.51	8.85	18.50	0	0.63	0.00	35.41	0.00
10yr3d	NSLRWCD C37	BASE	254.76	8.85	18.50	0	0.63	0.00	35.42	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	255.01	8.84	18.50	0	0.63	0.00	35.44	0.00
10yr3d	NSLRWCD C37	BASE	255.26	8.84	18.50	0	0.63	0.00	35.45	0.00
10yr3d	NSLRWCD C37	BASE	255.51	8.84	18.50	0	0.63	0.00	35.46	0.00
10yr3d	NSLRWCD C37	BASE	255.76	8.84	18.50	0	0.63	0.00	35.48	0.00
10yr3d	NSLRWCD C37	BASE	256.01	8.83	18.50	0	0.63	0.00	35.49	0.00
10yr3d	NSLRWCD C37	BASE	256.26	8.83	18.50	0	0.63	0.00	35.50	0.00
10yr3d	NSLRWCD C37	BASE	256.51	8.83	18.50	0	0.62	0.00	35.51	0.00
10yr3d	NSLRWCD C37	BASE	256.76	8.83	18.50	0	0.62	0.00	35.53	0.00
10yr3d	NSLRWCD C37	BASE	257.01	8.82	18.50	0	0.62	0.00	35.54	0.00
10yr3d	NSLRWCD C37	BASE	257.26	8.82	18.50	0	0.62	0.00	35.55	0.00
10yr3d	NSLRWCD C37	BASE	257.51	8.82	18.50	0	0.62	0.00	35.57	0.00
10yr3d	NSLRWCD C37	BASE	257.76	8.82	18.50	0	0.62	0.00	35.58	0.00
10yr3d	NSLRWCD C37	BASE	258.01	8.81	18.50	0	0.62	0.00	35.59	0.00
10yr3d	NSLRWCD C37	BASE	258.26	8.81	18.50	0	0.62	0.00	35.60	0.00
10yr3d	NSLRWCD C37	BASE	258.51	8.81	18.50	0	0.62	0.00	35.62	0.00
10yr3d	NSLRWCD C37	BASE	258.76	8.81	18.50	0	0.62	0.00	35.63	0.00
10yr3d	NSLRWCD C37	BASE	259.01	8.80	18.50	0	0.61	0.00	35.64	0.00
10yr3d	NSLRWCD C37	BASE	259.26	8.80	18.50	0	0.61	0.00	35.65	0.00
10yr3d	NSLRWCD C37	BASE	259.51	8.80	18.50	0	0.61	0.00	35.67	0.00
10yr3d	NSLRWCD C37	BASE	259.76	8.80	18.50	0	0.61	0.00	35.68	0.00
10yr3d	NSLRWCD C37	BASE	260.01	8.79	18.50	0	0.61	0.00	35.69	0.00
10yr3d	NSLRWCD C37	BASE	260.26	8.79	18.50	0	0.61	0.00	35.71	0.00
10yr3d	NSLRWCD C37	BASE	260.51	8.79	18.50	0	0.61	0.00	35.72	0.00
10yr3d	NSLRWCD C37	BASE	260.76	8.79	18.50	0	0.61	0.00	35.73	0.00
10yr3d	NSLRWCD C37	BASE	261.01	8.78	18.50	0	0.61	0.00	35.74	0.00
10yr3d	NSLRWCD C37	BASE	261.26	8.78	18.50	0	0.60	0.00	35.76	0.00
10yr3d	NSLRWCD C37	BASE	261.51	8.78	18.50	0	0.60	0.00	35.77	0.00
10yr3d	NSLRWCD C37	BASE	261.76	8.78	18.50	0	0.60	0.00	35.78	0.00
10yr3d	NSLRWCD C37	BASE	262.01	8.77	18.50	0	0.60	0.00	35.79	0.00
10yr3d	NSLRWCD C37	BASE	262.26	8.77	18.50	0	0.60	0.00	35.81	0.00
10yr3d	NSLRWCD C37	BASE	262.51	8.77	18.50	0	0.60	0.00	35.82	0.00
10yr3d	NSLRWCD C37	BASE	262.76	8.77	18.50	0	0.60	0.00	35.83	0.00
10yr3d	NSLRWCD C37	BASE	263.01	8.76	18.50	0	0.60	0.00	35.84	0.00
10yr3d	NSLRWCD C37	BASE	263.26	8.76	18.50	0	0.60	0.00	35.85	0.00
10yr3d	NSLRWCD C37	BASE	263.51	8.76	18.50	0	0.60	0.00	35.87	0.00
10yr3d	NSLRWCD C37	BASE	263.76	8.76	18.50	0	0.59	0.00	35.88	0.00
10yr3d	NSLRWCD C37	BASE	264.01	8.75	18.50	0	0.59	0.00	35.89	0.00
10yr3d	NSLRWCD C37	BASE	264.26	8.75	18.50	0	0.59	0.00	35.90	0.00
10yr3d	NSLRWCD C37	BASE	264.51	8.75	18.50	0	0.59	0.00	35.92	0.00
10yr3d	NSLRWCD C37	BASE	264.76	8.75	18.50	0	0.59	0.00	35.93	0.00
10yr3d	NSLRWCD C37	BASE	265.01	8.74	18.50	0	0.59	0.00	35.94	0.00
10yr3d	NSLRWCD C37	BASE	265.26	8.74	18.50	0	0.59	0.00	35.95	0.00
10yr3d	NSLRWCD C37	BASE	265.51	8.74	18.50	0	0.59	0.00	35.96	0.00
10yr3d	NSLRWCD C37	BASE	265.76	8.74	18.50	0	0.59	0.00	35.98	0.00
10yr3d	NSLRWCD C37	BASE	266.01	8.73	18.50	0	0.59	0.00	35.99	0.00
10yr3d	NSLRWCD C37	BASE	266.26	8.73	18.50	0	0.58	0.00	36.00	0.00
10yr3d	NSLRWCD C37	BASE	266.51	8.73	18.50	0	0.58	0.00	36.01	0.00
10yr3d	NSLRWCD C37	BASE	266.76	8.73	18.50	0	0.58	0.00	36.03	0.00
10yr3d	NSLRWCD C37	BASE	267.01	8.72	18.50	0	0.58	0.00	36.04	0.00
10yr3d	NSLRWCD C37	BASE	267.26	8.72	18.50	0	0.58	0.00	36.05	0.00
10yr3d	NSLRWCD C37	BASE	267.51	8.72	18.50	0	0.58	0.00	36.06	0.00
10yr3d	NSLRWCD C37	BASE	267.76	8.72	18.50	0	0.58	0.00	36.07	0.00
10yr3d	NSLRWCD C37	BASE	268.01	8.71	18.50	0	0.58	0.00	36.08	0.00
10yr3d	NSLRWCD C37	BASE	268.26	8.71	18.50	0	0.58	0.00	36.10	0.00
10yr3d	NSLRWCD C37	BASE	268.51	8.71	18.50	0	0.58	0.00	36.11	0.00
10yr3d	NSLRWCD C37	BASE	268.76	8.71	18.50	0	0.57	0.00	36.12	0.00
10yr3d	NSLRWCD C37	BASE	269.01	8.70	18.50	0	0.57	0.00	36.13	0.00
10yr3d	NSLRWCD C37	BASE	269.26	8.70	18.50	0	0.57	0.00	36.14	0.00
10yr3d	NSLRWCD C37	BASE	269.51	8.70	18.50	0	0.57	0.00	36.16	0.00
10yr3d	NSLRWCD C37	BASE	269.76	8.69	18.50	0	0.57	0.00	36.17	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	270.01	8.69	18.50	0	0.57	0.00	36.18	0.00
10yr3d	NSLRWCD C37	BASE	270.26	8.69	18.50	0	0.57	0.00	36.19	0.00
10yr3d	NSLRWCD C37	BASE	270.51	8.69	18.50	0	0.57	0.00	36.20	0.00
10yr3d	NSLRWCD C37	BASE	270.76	8.68	18.50	0	0.57	0.00	36.22	0.00
10yr3d	NSLRWCD C37	BASE	271.01	8.68	18.50	0	0.57	0.00	36.23	0.00
10yr3d	NSLRWCD C37	BASE	271.26	8.68	18.50	0	0.57	0.00	36.24	0.00
10yr3d	NSLRWCD C37	BASE	271.51	8.68	18.50	0	0.56	0.00	36.25	0.00
10yr3d	NSLRWCD C37	BASE	271.76	8.67	18.50	0	0.56	0.00	36.26	0.00
10yr3d	NSLRWCD C37	BASE	272.01	8.67	18.50	0	0.56	0.00	36.27	0.00
10yr3d	NSLRWCD C37	BASE	272.26	8.67	18.50	0	0.56	0.00	36.28	0.00
10yr3d	NSLRWCD C37	BASE	272.51	8.67	18.50	0	0.56	0.00	36.30	0.00
10yr3d	NSLRWCD C37	BASE	272.76	8.66	18.50	0	0.56	0.00	36.31	0.00
10yr3d	NSLRWCD C37	BASE	273.01	8.66	18.50	0	0.56	0.00	36.32	0.00
10yr3d	NSLRWCD C37	BASE	273.26	8.66	18.50	0	0.56	0.00	36.33	0.00
10yr3d	NSLRWCD C37	BASE	273.51	8.66	18.50	0	0.56	0.00	36.34	0.00
10yr3d	NSLRWCD C37	BASE	273.76	8.65	18.50	0	0.56	0.00	36.35	0.00
10yr3d	NSLRWCD C37	BASE	274.01	8.65	18.50	0	0.56	0.00	36.37	0.00
10yr3d	NSLRWCD C37	BASE	274.26	8.65	18.50	0	0.55	0.00	36.38	0.00
10yr3d	NSLRWCD C37	BASE	274.51	8.65	18.50	0	0.55	0.00	36.39	0.00
10yr3d	NSLRWCD C37	BASE	274.76	8.64	18.50	0	0.55	0.00	36.40	0.00
10yr3d	NSLRWCD C37	BASE	275.01	8.64	18.50	0	0.55	0.00	36.41	0.00
10yr3d	NSLRWCD C37	BASE	275.26	8.64	18.50	0	0.55	0.00	36.42	0.00
10yr3d	NSLRWCD C37	BASE	275.51	8.64	18.50	0	0.55	0.00	36.43	0.00
10yr3d	NSLRWCD C37	BASE	275.76	8.63	18.50	0	0.55	0.00	36.45	0.00
10yr3d	NSLRWCD C37	BASE	276.01	8.63	18.50	0	0.55	0.00	36.46	0.00
10yr3d	NSLRWCD C37	BASE	276.26	8.63	18.50	0	0.55	0.00	36.47	0.00
10yr3d	NSLRWCD C37	BASE	276.51	8.63	18.50	0	0.55	0.00	36.48	0.00
10yr3d	NSLRWCD C37	BASE	276.76	8.62	18.50	0	0.55	0.00	36.49	0.00
10yr3d	NSLRWCD C37	BASE	277.01	8.62	18.50	0	0.54	0.00	36.50	0.00
10yr3d	NSLRWCD C37	BASE	277.26	8.62	18.50	0	0.54	0.00	36.51	0.00
10yr3d	NSLRWCD C37	BASE	277.51	8.62	18.50	0	0.54	0.00	36.52	0.00
10yr3d	NSLRWCD C37	BASE	277.76	8.61	18.50	0	0.54	0.00	36.54	0.00
10yr3d	NSLRWCD C37	BASE	278.01	8.61	18.50	0	0.54	0.00	36.55	0.00
10yr3d	NSLRWCD C37	BASE	278.26	8.61	18.50	0	0.54	0.00	36.56	0.00
10yr3d	NSLRWCD C37	BASE	278.51	8.61	18.50	0	0.54	0.00	36.57	0.00
10yr3d	NSLRWCD C37	BASE	278.76	8.60	18.50	0	0.54	0.00	36.58	0.00
10yr3d	NSLRWCD C37	BASE	279.01	8.60	18.50	0	0.54	0.00	36.59	0.00
10yr3d	NSLRWCD C37	BASE	279.26	8.60	18.50	0	0.54	0.00	36.60	0.00
10yr3d	NSLRWCD C37	BASE	279.51	8.60	18.50	0	0.54	0.00	36.61	0.00
10yr3d	NSLRWCD C37	BASE	279.76	8.59	18.50	0	0.53	0.00	36.62	0.00
10yr3d	NSLRWCD C37	BASE	280.01	8.59	18.50	0	0.53	0.00	36.64	0.00
10yr3d	NSLRWCD C37	BASE	280.26	8.59	18.50	0	0.53	0.00	36.65	0.00
10yr3d	NSLRWCD C37	BASE	280.51	8.59	18.50	0	0.53	0.00	36.66	0.00
10yr3d	NSLRWCD C37	BASE	280.76	8.58	18.50	0	0.53	0.00	36.67	0.00
10yr3d	NSLRWCD C37	BASE	281.01	8.58	18.50	0	0.53	0.00	36.68	0.00
10yr3d	NSLRWCD C37	BASE	281.26	8.58	18.50	0	0.53	0.00	36.69	0.00
10yr3d	NSLRWCD C37	BASE	281.51	8.58	18.50	0	0.53	0.00	36.70	0.00
10yr3d	NSLRWCD C37	BASE	281.76	8.57	18.50	0	0.53	0.00	36.71	0.00
10yr3d	NSLRWCD C37	BASE	282.01	8.57	18.50	0	0.53	0.00	36.72	0.00
10yr3d	NSLRWCD C37	BASE	282.26	8.57	18.50	0	0.53	0.00	36.73	0.00
10yr3d	NSLRWCD C37	BASE	282.51	8.57	18.50	0	0.53	0.00	36.75	0.00
10yr3d	NSLRWCD C37	BASE	282.76	8.56	18.50	0	0.53	0.00	36.76	0.00
10yr3d	NSLRWCD C37	BASE	283.01	8.56	18.50	0	0.52	0.00	36.77	0.00
10yr3d	NSLRWCD C37	BASE	283.26	8.56	18.50	0	0.52	0.00	36.78	0.00
10yr3d	NSLRWCD C37	BASE	283.51	8.56	18.50	0	0.52	0.00	36.79	0.00
10yr3d	NSLRWCD C37	BASE	283.76	8.55	18.50	0	0.52	0.00	36.80	0.00
10yr3d	NSLRWCD C37	BASE	284.01	8.55	18.50	0	0.52	0.00	36.81	0.00
10yr3d	NSLRWCD C37	BASE	284.26	8.55	18.50	0	0.52	0.00	36.82	0.00
10yr3d	NSLRWCD C37	BASE	284.51	8.55	18.50	0	0.52	0.00	36.83	0.00
10yr3d	NSLRWCD C37	BASE	284.76	8.54	18.50	0	0.52	0.00	36.84	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	285.01	8.54	18.50	0	0.52	0.00	36.85	0.00
10yr3d	NSLRWCD C37	BASE	285.26	8.54	18.50	0	0.52	0.00	36.86	0.00
10yr3d	NSLRWCD C37	BASE	285.51	8.54	18.50	0	0.52	0.00	36.87	0.00
10yr3d	NSLRWCD C37	BASE	285.76	8.53	18.50	0	0.52	0.00	36.89	0.00
10yr3d	NSLRWCD C37	BASE	286.01	8.53	18.50	0	0.52	0.00	36.90	0.00
10yr3d	NSLRWCD C37	BASE	286.26	8.53	18.50	0	0.52	0.00	36.91	0.00
10yr3d	NSLRWCD C37	BASE	286.51	8.53	18.50	0	0.51	0.00	36.92	0.00
10yr3d	NSLRWCD C37	BASE	286.76	8.52	18.50	0	0.51	0.00	36.93	0.00
10yr3d	NSLRWCD C37	BASE	287.01	8.52	18.50	0	0.51	0.00	36.94	0.00
10yr3d	NSLRWCD C37	BASE	287.26	8.52	18.50	0	0.51	0.00	36.95	0.00
10yr3d	NSLRWCD C37	BASE	287.51	8.52	18.50	0	0.51	0.00	36.96	0.00
10yr3d	NSLRWCD C37	BASE	287.76	8.51	18.50	0	0.51	0.00	36.97	0.00
10yr3d	NSLRWCD C37	BASE	288.01	8.51	18.50	0	0.51	0.00	36.98	0.00
10yr3d	NSLRWCD C37	BASE	288.26	8.51	18.50	0	0.51	0.00	36.99	0.00
10yr3d	NSLRWCD C37	BASE	288.51	8.50	18.50	0	0.51	0.00	37.00	0.00
10yr3d	NSLRWCD C37	BASE	288.76	8.50	18.50	0	0.51	0.00	37.01	0.00
10yr3d	NSLRWCD C37	BASE	289.01	8.50	18.50	0	0.51	0.00	37.02	0.00
10yr3d	NSLRWCD C37	BASE	289.26	8.50	18.50	0	0.51	0.00	37.03	0.00
10yr3d	NSLRWCD C37	BASE	289.51	8.49	18.50	0	0.51	0.00	37.04	0.00
10yr3d	NSLRWCD C37	BASE	289.76	8.49	18.50	0	0.51	0.00	37.05	0.00
10yr3d	NSLRWCD C37	BASE	290.01	8.49	18.50	0	0.51	0.00	37.06	0.00
10yr3d	NSLRWCD C37	BASE	290.26	8.49	18.50	0	0.51	0.00	37.08	0.00
10yr3d	NSLRWCD C37	BASE	290.51	8.48	18.50	0	0.51	0.00	37.09	0.00
10yr3d	NSLRWCD C37	BASE	290.76	8.48	18.50	0	0.50	0.00	37.10	0.00
10yr3d	NSLRWCD C37	BASE	291.01	8.48	18.50	0	0.50	0.00	37.11	0.00
10yr3d	NSLRWCD C37	BASE	291.26	8.48	18.50	0	0.50	0.00	37.12	0.00
10yr3d	NSLRWCD C37	BASE	291.51	8.47	18.50	0	0.50	0.00	37.13	0.00
10yr3d	NSLRWCD C37	BASE	291.76	8.47	18.50	0	0.50	0.00	37.14	0.00
10yr3d	NSLRWCD C37	BASE	292.01	8.47	18.50	0	0.50	0.00	37.15	0.00
10yr3d	NSLRWCD C37	BASE	292.26	8.47	18.50	0	0.50	0.00	37.16	0.00
10yr3d	NSLRWCD C37	BASE	292.51	8.46	18.50	0	0.50	0.00	37.17	0.00
10yr3d	NSLRWCD C37	BASE	292.76	8.46	18.50	0	0.50	0.00	37.18	0.00
10yr3d	NSLRWCD C37	BASE	293.01	8.46	18.50	0	0.50	0.00	37.19	0.00
10yr3d	NSLRWCD C37	BASE	293.26	8.46	18.50	0	0.50	0.00	37.20	0.00
10yr3d	NSLRWCD C37	BASE	293.51	8.45	18.50	0	0.50	0.00	37.21	0.00
10yr3d	NSLRWCD C37	BASE	293.76	8.45	18.50	0	0.50	0.00	37.22	0.00
10yr3d	NSLRWCD C37	BASE	294.01	8.45	18.50	0	0.50	0.00	37.23	0.00
10yr3d	NSLRWCD C37	BASE	294.26	8.45	18.50	0	0.50	0.00	37.24	0.00
10yr3d	NSLRWCD C37	BASE	294.51	8.44	18.50	0	0.50	0.00	37.25	0.00
10yr3d	NSLRWCD C37	BASE	294.76	8.44	18.50	0	0.50	0.00	37.26	0.00
10yr3d	NSLRWCD C37	BASE	295.01	8.44	18.50	0	0.50	0.00	37.27	0.00
10yr3d	NSLRWCD C37	BASE	295.26	8.44	18.50	0	0.50	0.00	37.28	0.00
10yr3d	NSLRWCD C37	BASE	295.51	8.43	18.50	0	0.50	0.00	37.29	0.00
10yr3d	NSLRWCD C37	BASE	295.76	8.43	18.50	0	0.50	0.00	37.30	0.00
10yr3d	NSLRWCD C37	BASE	296.01	8.43	18.50	0	0.50	0.00	37.31	0.00
10yr3d	NSLRWCD C37	BASE	296.26	8.43	18.50	0	0.50	0.00	37.32	0.00
10yr3d	NSLRWCD C37	BASE	296.51	8.42	18.50	0	0.50	0.00	37.33	0.00
10yr3d	NSLRWCD C37	BASE	296.76	8.42	18.50	0	0.50	0.00	37.34	0.00
10yr3d	NSLRWCD C37	BASE	297.01	8.42	18.50	0	0.50	0.00	37.36	0.00
10yr3d	NSLRWCD C37	BASE	297.26	8.42	18.50	0	0.50	0.00	37.37	0.00
10yr3d	NSLRWCD C37	BASE	297.51	8.41	18.50	0	0.50	0.00	37.38	0.00
10yr3d	NSLRWCD C37	BASE	297.76	8.41	18.50	0	0.50	0.00	37.39	0.00
10yr3d	NSLRWCD C37	BASE	298.01	8.41	18.50	0	0.50	0.00	37.40	0.00
10yr3d	NSLRWCD C37	BASE	298.26	8.41	18.50	0	0.50	0.00	37.41	0.00
10yr3d	NSLRWCD C37	BASE	298.51	8.40	18.50	0	0.50	0.00	37.42	0.00
10yr3d	NSLRWCD C37	BASE	298.76	8.40	18.50	0	0.50	0.00	37.43	0.00
10yr3d	NSLRWCD C37	BASE	299.01	8.40	18.50	0	0.50	0.00	37.44	0.00
10yr3d	NSLRWCD C37	BASE	299.26	8.40	18.50	0	0.50	0.00	37.45	0.00
10yr3d	NSLRWCD C37	BASE	299.51	8.39	18.50	0	0.50	0.00	37.46	0.00
10yr3d	NSLRWCD C37	BASE	299.76	8.39	18.50	0	0.50	0.00	37.47	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	300.01	8.39	18.50	0	0.50	0.00	37.48	0.00
10yr3d	NSLRWCD C37	BASE	300.26	8.39	18.50	0	0.50	0.00	37.49	0.00
10yr3d	NSLRWCD C37	BASE	300.51	8.38	18.50	0	0.50	0.00	37.50	0.00
10yr3d	NSLRWCD C37	BASE	300.76	8.38	18.50	0	0.50	0.00	37.51	0.00
10yr3d	NSLRWCD C37	BASE	301.01	8.38	18.50	0	0.50	0.00	37.52	0.00
10yr3d	NSLRWCD C37	BASE	301.26	8.38	18.50	0	0.49	0.00	37.53	0.00
10yr3d	NSLRWCD C37	BASE	301.51	8.37	18.50	0	0.49	0.00	37.54	0.00
10yr3d	NSLRWCD C37	BASE	301.76	8.37	18.50	0	0.49	0.00	37.55	0.00
10yr3d	NSLRWCD C37	BASE	302.01	8.37	18.50	0	0.49	0.00	37.56	0.00
10yr3d	NSLRWCD C37	BASE	302.26	8.37	18.50	0	0.49	0.00	37.57	0.00
10yr3d	NSLRWCD C37	BASE	302.51	8.36	18.50	0	0.49	0.00	37.58	0.00
10yr3d	NSLRWCD C37	BASE	302.76	8.36	18.50	0	0.49	0.00	37.59	0.00
10yr3d	NSLRWCD C37	BASE	303.01	8.36	18.50	0	0.49	0.00	37.60	0.00
10yr3d	NSLRWCD C37	BASE	303.26	8.36	18.50	0	0.49	0.00	37.61	0.00
10yr3d	NSLRWCD C37	BASE	303.51	8.35	18.50	0	0.49	0.00	37.62	0.00
10yr3d	NSLRWCD C37	BASE	303.76	8.35	18.50	0	0.49	0.00	37.63	0.00
10yr3d	NSLRWCD C37	BASE	304.01	8.35	18.50	0	0.49	0.00	37.64	0.00
10yr3d	NSLRWCD C37	BASE	304.26	8.35	18.50	0	0.49	0.00	37.65	0.00
10yr3d	NSLRWCD C37	BASE	304.51	8.34	18.50	0	0.49	0.00	37.66	0.00
10yr3d	NSLRWCD C37	BASE	304.76	8.34	18.50	0	0.49	0.00	37.67	0.00
10yr3d	NSLRWCD C37	BASE	305.01	8.34	18.50	0	0.49	0.00	37.68	0.00
10yr3d	NSLRWCD C37	BASE	305.26	8.34	18.50	0	0.49	0.00	37.69	0.00
10yr3d	NSLRWCD C37	BASE	305.51	8.33	18.50	0	0.49	0.00	37.70	0.00
10yr3d	NSLRWCD C37	BASE	305.76	8.33	18.50	0	0.49	0.00	37.71	0.00
10yr3d	NSLRWCD C37	BASE	306.01	8.33	18.50	0	0.49	0.00	37.72	0.00
10yr3d	NSLRWCD C37	BASE	306.26	8.32	18.50	0	0.49	0.00	37.73	0.00
10yr3d	NSLRWCD C37	BASE	306.51	8.32	18.50	0	0.49	0.00	37.74	0.00
10yr3d	NSLRWCD C37	BASE	306.76	8.32	18.50	0	0.49	0.00	37.75	0.00
10yr3d	NSLRWCD C37	BASE	307.01	8.32	18.50	0	0.49	0.00	37.76	0.00
10yr3d	NSLRWCD C37	BASE	307.26	8.31	18.50	0	0.49	0.00	37.77	0.00
10yr3d	NSLRWCD C37	BASE	307.51	8.31	18.50	0	0.49	0.00	37.78	0.00
10yr3d	NSLRWCD C37	BASE	307.76	8.31	18.50	0	0.49	0.00	37.79	0.00
10yr3d	NSLRWCD C37	BASE	308.01	8.31	18.50	0	0.49	0.00	37.80	0.00
10yr3d	NSLRWCD C37	BASE	308.26	8.30	18.50	0	0.49	0.00	37.81	0.00
10yr3d	NSLRWCD C37	BASE	308.51	8.30	18.50	0	0.49	0.00	37.82	0.00
10yr3d	NSLRWCD C37	BASE	308.76	8.30	18.50	0	0.49	0.00	37.83	0.00
10yr3d	NSLRWCD C37	BASE	309.01	8.30	18.50	0	0.49	0.00	37.84	0.00
10yr3d	NSLRWCD C37	BASE	309.26	8.29	18.50	0	0.49	0.00	37.85	0.00
10yr3d	NSLRWCD C37	BASE	309.51	8.29	18.50	0	0.49	0.00	37.86	0.00
10yr3d	NSLRWCD C37	BASE	309.76	8.29	18.50	0	0.49	0.00	37.87	0.00
10yr3d	NSLRWCD C37	BASE	310.01	8.29	18.50	0	0.49	0.00	37.88	0.00
10yr3d	NSLRWCD C37	BASE	310.26	8.28	18.50	0	0.49	0.00	37.89	0.00
10yr3d	NSLRWCD C37	BASE	310.51	8.28	18.50	0	0.49	0.00	37.90	0.00
10yr3d	NSLRWCD C37	BASE	310.76	8.28	18.50	0	0.49	0.00	37.91	0.00
10yr3d	NSLRWCD C37	BASE	311.01	8.28	18.50	0	0.48	0.00	37.92	0.00
10yr3d	NSLRWCD C37	BASE	311.26	8.27	18.50	0	0.48	0.00	37.93	0.00
10yr3d	NSLRWCD C37	BASE	311.51	8.27	18.50	0	0.48	0.00	37.94	0.00
10yr3d	NSLRWCD C37	BASE	311.76	8.27	18.50	0	0.48	0.00	37.95	0.00
10yr3d	NSLRWCD C37	BASE	312.01	8.27	18.50	0	0.48	0.00	37.96	0.00
10yr3d	NSLRWCD C37	BASE	312.26	8.26	18.50	0	0.48	0.00	37.97	0.00
10yr3d	NSLRWCD C37	BASE	312.51	8.26	18.50	0	0.48	0.00	37.98	0.00
10yr3d	NSLRWCD C37	BASE	312.76	8.26	18.50	0	0.48	0.00	37.99	0.00
10yr3d	NSLRWCD C37	BASE	313.01	8.26	18.50	0	0.48	0.00	38.00	0.00
10yr3d	NSLRWCD C37	BASE	313.26	8.25	18.50	0	0.48	0.00	38.01	0.00
10yr3d	NSLRWCD C37	BASE	313.51	8.25	18.50	0	0.48	0.00	38.02	0.00
10yr3d	NSLRWCD C37	BASE	313.76	8.25	18.50	0	0.48	0.00	38.03	0.00
10yr3d	NSLRWCD C37	BASE	314.01	8.25	18.50	0	0.48	0.00	38.04	0.00
10yr3d	NSLRWCD C37	BASE	314.26	8.24	18.50	0	0.48	0.00	38.05	0.00
10yr3d	NSLRWCD C37	BASE	314.51	8.24	18.50	0	0.48	0.00	38.06	0.00
10yr3d	NSLRWCD C37	BASE	314.76	8.24	18.50	0	0.48	0.00	38.07	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	315.01	8.24	18.50	0	0.48	0.00	38.08	0.00
10yr3d	NSLRWCD C37	BASE	315.26	8.23	18.50	0	0.48	0.00	38.09	0.00
10yr3d	NSLRWCD C37	BASE	315.51	8.23	18.50	0	0.48	0.00	38.10	0.00
10yr3d	NSLRWCD C37	BASE	315.76	8.23	18.50	0	0.48	0.00	38.11	0.00
10yr3d	NSLRWCD C37	BASE	316.01	8.23	18.50	0	0.48	0.00	38.12	0.00
10yr3d	NSLRWCD C37	BASE	316.26	8.22	18.50	0	0.48	0.00	38.13	0.00
10yr3d	NSLRWCD C37	BASE	316.51	8.22	18.50	0	0.48	0.00	38.14	0.00
10yr3d	NSLRWCD C37	BASE	316.76	8.22	18.50	0	0.48	0.00	38.15	0.00
10yr3d	NSLRWCD C37	BASE	317.01	8.22	18.50	0	0.48	0.00	38.16	0.00
10yr3d	NSLRWCD C37	BASE	317.26	8.21	18.50	0	0.48	0.00	38.17	0.00
10yr3d	NSLRWCD C37	BASE	317.51	8.21	18.50	0	0.48	0.00	38.18	0.00
10yr3d	NSLRWCD C37	BASE	317.76	8.21	18.50	0	0.48	0.00	38.19	0.00
10yr3d	NSLRWCD C37	BASE	318.01	8.21	18.50	0	0.48	0.00	38.20	0.00
10yr3d	NSLRWCD C37	BASE	318.26	8.20	18.50	0	0.48	0.00	38.21	0.00
10yr3d	NSLRWCD C37	BASE	318.51	8.20	18.50	0	0.48	0.00	38.22	0.00
10yr3d	NSLRWCD C37	BASE	318.76	8.20	18.50	0	0.48	0.00	38.23	0.00
10yr3d	NSLRWCD C37	BASE	319.01	8.20	18.50	0	0.48	0.00	38.24	0.00
10yr3d	NSLRWCD C37	BASE	319.26	8.19	18.50	0	0.48	0.00	38.25	0.00
10yr3d	NSLRWCD C37	BASE	319.51	8.19	18.50	0	0.47	0.00	38.26	0.00
10yr3d	NSLRWCD C37	BASE	319.76	8.19	18.50	0	0.47	0.00	38.27	0.00
10yr3d	NSLRWCD C37	BASE	320.01	8.19	18.50	0	0.47	0.00	38.28	0.00
10yr3d	NSLRWCD C37	BASE	320.26	8.18	18.50	0	0.47	0.00	38.29	0.00
10yr3d	NSLRWCD C37	BASE	320.51	8.18	18.50	0	0.47	0.00	38.30	0.00
10yr3d	NSLRWCD C37	BASE	320.76	8.18	18.50	0	0.47	0.00	38.31	0.00
10yr3d	NSLRWCD C37	BASE	321.01	8.18	18.50	0	0.47	0.00	38.32	0.00
10yr3d	NSLRWCD C37	BASE	321.26	8.17	18.50	0	0.47	0.00	38.33	0.00
10yr3d	NSLRWCD C37	BASE	321.51	8.17	18.50	0	0.47	0.00	38.34	0.00
10yr3d	NSLRWCD C37	BASE	321.76	8.17	18.50	0	0.47	0.00	38.35	0.00
10yr3d	NSLRWCD C37	BASE	322.01	8.17	18.50	0	0.47	0.00	38.36	0.00
10yr3d	NSLRWCD C37	BASE	322.26	8.16	18.50	0	0.47	0.00	38.37	0.00
10yr3d	NSLRWCD C37	BASE	322.51	8.16	18.50	0	0.47	0.00	38.38	0.00
10yr3d	NSLRWCD C37	BASE	322.76	8.16	18.50	0	0.47	0.00	38.39	0.00
10yr3d	NSLRWCD C37	BASE	323.01	8.16	18.50	0	0.47	0.00	38.40	0.00
10yr3d	NSLRWCD C37	BASE	323.26	8.15	18.50	0	0.47	0.00	38.41	0.00
10yr3d	NSLRWCD C37	BASE	323.51	8.15	18.50	0	0.47	0.00	38.42	0.00
10yr3d	NSLRWCD C37	BASE	323.76	8.15	18.50	0	0.47	0.00	38.43	0.00
10yr3d	NSLRWCD C37	BASE	324.01	8.14	18.50	0	0.47	0.00	38.44	0.00
10yr3d	NSLRWCD C37	BASE	324.26	8.14	18.50	0	0.47	0.00	38.45	0.00
10yr3d	NSLRWCD C37	BASE	324.51	8.14	18.50	0	0.47	0.00	38.46	0.00
10yr3d	NSLRWCD C37	BASE	324.76	8.14	18.50	0	0.47	0.00	38.47	0.00
10yr3d	NSLRWCD C37	BASE	325.01	8.13	18.50	0	0.47	0.00	38.48	0.00
10yr3d	NSLRWCD C37	BASE	325.26	8.13	18.50	0	0.47	0.00	38.49	0.00
10yr3d	NSLRWCD C37	BASE	325.51	8.13	18.50	0	0.47	0.00	38.50	0.00
10yr3d	NSLRWCD C37	BASE	325.76	8.13	18.50	0	0.47	0.00	38.50	0.00
10yr3d	NSLRWCD C37	BASE	326.01	8.12	18.50	0	0.47	0.00	38.51	0.00
10yr3d	NSLRWCD C37	BASE	326.26	8.12	18.50	0	0.47	0.00	38.52	0.00
10yr3d	NSLRWCD C37	BASE	326.51	8.12	18.50	0	0.47	0.00	38.53	0.00
10yr3d	NSLRWCD C37	BASE	326.76	8.12	18.50	0	0.47	0.00	38.54	0.00
10yr3d	NSLRWCD C37	BASE	327.01	8.11	18.50	0	0.46	0.00	38.55	0.00
10yr3d	NSLRWCD C37	BASE	327.26	8.11	18.50	0	0.46	0.00	38.56	0.00
10yr3d	NSLRWCD C37	BASE	327.51	8.11	18.50	0	0.46	0.00	38.57	0.00
10yr3d	NSLRWCD C37	BASE	327.76	8.11	18.50	0	0.46	0.00	38.58	0.00
10yr3d	NSLRWCD C37	BASE	328.01	8.10	18.50	0	0.46	0.00	38.59	0.00
10yr3d	NSLRWCD C37	BASE	328.26	8.10	18.50	0	0.46	0.00	38.60	0.00
10yr3d	NSLRWCD C37	BASE	328.51	8.10	18.50	0	0.46	0.00	38.61	0.00
10yr3d	NSLRWCD C37	BASE	328.76	8.10	18.50	0	0.46	0.00	38.62	0.00
10yr3d	NSLRWCD C37	BASE	329.01	8.09	18.50	0	0.46	0.00	38.63	0.00
10yr3d	NSLRWCD C37	BASE	329.26	8.09	18.50	0	0.46	0.00	38.64	0.00
10yr3d	NSLRWCD C37	BASE	329.51	8.09	18.50	0	0.46	0.00	38.65	0.00
10yr3d	NSLRWCD C37	BASE	329.76	8.09	18.50	0	0.46	0.00	38.66	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	330.01	8.08	18.50	0	0.46	0.00	38.67	0.00
10yr3d	NSLRWCD C37	BASE	330.26	8.08	18.50	0	0.46	0.00	38.68	0.00
10yr3d	NSLRWCD C37	BASE	330.51	8.08	18.50	0	0.46	0.00	38.69	0.00
10yr3d	NSLRWCD C37	BASE	330.76	8.08	18.50	0	0.46	0.00	38.70	0.00
10yr3d	NSLRWCD C37	BASE	331.01	8.07	18.50	0	0.46	0.00	38.71	0.00
10yr3d	NSLRWCD C37	BASE	331.26	8.07	18.50	0	0.46	0.00	38.72	0.00
10yr3d	NSLRWCD C37	BASE	331.51	8.07	18.50	0	0.46	0.00	38.72	0.00
10yr3d	NSLRWCD C37	BASE	331.76	8.07	18.50	0	0.46	0.00	38.73	0.00
10yr3d	NSLRWCD C37	BASE	332.01	8.06	18.50	0	0.46	0.00	38.74	0.00
10yr3d	NSLRWCD C37	BASE	332.26	8.06	18.50	0	0.46	0.00	38.75	0.00
10yr3d	NSLRWCD C37	BASE	332.51	8.06	18.50	0	0.46	0.00	38.76	0.00
10yr3d	NSLRWCD C37	BASE	332.76	8.06	18.50	0	0.46	0.00	38.77	0.00
10yr3d	NSLRWCD C37	BASE	333.01	8.05	18.50	0	0.46	0.00	38.78	0.00
10yr3d	NSLRWCD C37	BASE	333.26	8.05	18.50	0	0.46	0.00	38.79	0.00
10yr3d	NSLRWCD C37	BASE	333.51	8.05	18.50	0	0.45	0.00	38.80	0.00
10yr3d	NSLRWCD C37	BASE	333.76	8.05	18.50	0	0.45	0.00	38.81	0.00
10yr3d	NSLRWCD C37	BASE	334.01	8.04	18.50	0	0.45	0.00	38.82	0.00
10yr3d	NSLRWCD C37	BASE	334.26	8.04	18.50	0	0.45	0.00	38.83	0.00
10yr3d	NSLRWCD C37	BASE	334.51	8.04	18.50	0	0.45	0.00	38.84	0.00
10yr3d	NSLRWCD C37	BASE	334.76	8.04	18.50	0	0.45	0.00	38.85	0.00
10yr3d	NSLRWCD C37	BASE	335.01	8.03	18.50	0	0.45	0.00	38.86	0.00
10yr3d	NSLRWCD C37	BASE	335.26	8.03	18.50	0	0.45	0.00	38.87	0.00
10yr3d	NSLRWCD C37	BASE	335.51	8.03	18.50	0	0.45	0.00	38.87	0.00
10yr3d	NSLRWCD C37	BASE	335.76	8.03	18.50	0	0.45	0.00	38.88	0.00
10yr3d	NSLRWCD C37	BASE	336.01	8.02	18.50	0	0.45	0.00	38.89	0.00
10yr3d	NSLRWCD C37	BASE	336.26	8.02	18.50	0	0.45	0.00	38.90	0.00
10yr3d	NSLRWCD C37	BASE	336.51	8.02	18.50	0	0.45	0.00	38.91	0.00
10yr3d	NSLRWCD C37	BASE	336.76	8.02	18.50	0	0.45	0.00	38.92	0.00
10yr3d	NSLRWCD C37	BASE	337.01	8.01	18.50	0	0.45	0.00	38.93	0.00
10yr3d	NSLRWCD C37	BASE	337.26	8.01	18.50	0	0.45	0.00	38.94	0.00
10yr3d	NSLRWCD C37	BASE	337.51	8.01	18.50	0	0.45	0.00	38.95	0.00
10yr3d	NSLRWCD C37	BASE	337.76	8.01	18.50	0	0.45	0.00	38.96	0.00
10yr3d	NSLRWCD C37	BASE	338.01	8.00	18.50	0	0.45	0.00	38.97	0.00
10yr3d	NSLRWCD C37	BASE	338.26	8.00	18.50	0	0.45	0.00	38.98	0.00
10yr3d	NSLRWCD C37	BASE	338.51	8.00	18.50	0	0.45	0.00	38.99	0.00
10yr3d	NSLRWCD C37	BASE	338.76	8.00	18.50	0	0.45	0.00	39.00	0.00
10yr3d	NSLRWCD C37	BASE	339.01	7.99	18.50	0	0.45	0.00	39.00	0.00
10yr3d	NSLRWCD C37	BASE	339.26	7.99	18.50	0	0.45	0.00	39.01	0.00
10yr3d	NSLRWCD C37	BASE	339.51	7.99	18.50	0	0.45	0.00	39.02	0.00
10yr3d	NSLRWCD C37	BASE	339.76	7.99	18.50	0	0.44	0.00	39.03	0.00
10yr3d	NSLRWCD C37	BASE	340.01	7.98	18.50	0	0.44	0.00	39.04	0.00
10yr3d	NSLRWCD C37	BASE	340.26	7.98	18.50	0	0.44	0.00	39.05	0.00
10yr3d	NSLRWCD C37	BASE	340.51	7.98	18.50	0	0.44	0.00	39.06	0.00
10yr3d	NSLRWCD C37	BASE	340.76	7.98	18.50	0	0.44	0.00	39.07	0.00
10yr3d	NSLRWCD C37	BASE	341.01	7.97	18.50	0	0.44	0.00	39.08	0.00
10yr3d	NSLRWCD C37	BASE	341.26	7.97	18.50	0	0.44	0.00	39.09	0.00
10yr3d	NSLRWCD C37	BASE	341.51	7.97	18.50	0	0.44	0.00	39.10	0.00
10yr3d	NSLRWCD C37	BASE	341.76	7.96	18.50	0	0.44	0.00	39.11	0.00
10yr3d	NSLRWCD C37	BASE	342.01	7.96	18.50	0	0.44	0.00	39.11	0.00
10yr3d	NSLRWCD C37	BASE	342.26	7.96	18.50	0	0.44	0.00	39.12	0.00
10yr3d	NSLRWCD C37	BASE	342.51	7.96	18.50	0	0.44	0.00	39.13	0.00
10yr3d	NSLRWCD C37	BASE	342.76	7.95	18.50	0	0.44	0.00	39.14	0.00
10yr3d	NSLRWCD C37	BASE	343.01	7.95	18.50	0	0.44	0.00	39.15	0.00
10yr3d	NSLRWCD C37	BASE	343.26	7.95	18.50	0	0.44	0.00	39.16	0.00
10yr3d	NSLRWCD C37	BASE	343.51	7.95	18.50	0	0.44	0.00	39.17	0.00
10yr3d	NSLRWCD C37	BASE	343.76	7.94	18.50	0	0.44	0.00	39.18	0.00
10yr3d	NSLRWCD C37	BASE	344.01	7.94	18.50	0	0.44	0.00	39.19	0.00
10yr3d	NSLRWCD C37	BASE	344.26	7.94	18.50	0	0.44	0.00	39.20	0.00
10yr3d	NSLRWCD C37	BASE	344.51	7.94	18.50	0	0.44	0.00	39.21	0.00
10yr3d	NSLRWCD C37	BASE	344.76	7.93	18.50	0	0.44	0.00	39.21	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	345.01	7.93	18.50	0	0.44	0.00	39.22	0.00
10yr3d	NSLRWCD C37	BASE	345.26	7.93	18.50	0	0.44	0.00	39.23	0.00
10yr3d	NSLRWCD C37	BASE	345.51	7.93	18.50	0	0.43	0.00	39.24	0.00
10yr3d	NSLRWCD C37	BASE	345.76	7.92	18.50	0	0.43	0.00	39.25	0.00
10yr3d	NSLRWCD C37	BASE	346.01	7.92	18.50	0	0.43	0.00	39.26	0.00
10yr3d	NSLRWCD C37	BASE	346.26	7.92	18.50	0	0.43	0.00	39.27	0.00
10yr3d	NSLRWCD C37	BASE	346.51	7.92	18.50	0	0.43	0.00	39.28	0.00
10yr3d	NSLRWCD C37	BASE	346.76	7.91	18.50	0	0.43	0.00	39.29	0.00
10yr3d	NSLRWCD C37	BASE	347.01	7.91	18.50	0	0.43	0.00	39.30	0.00
10yr3d	NSLRWCD C37	BASE	347.26	7.91	18.50	0	0.43	0.00	39.30	0.00
10yr3d	NSLRWCD C37	BASE	347.51	7.91	18.50	0	0.43	0.00	39.31	0.00
10yr3d	NSLRWCD C37	BASE	347.76	7.90	18.50	0	0.43	0.00	39.32	0.00
10yr3d	NSLRWCD C37	BASE	348.01	7.90	18.50	0	0.43	0.00	39.33	0.00
10yr3d	NSLRWCD C37	BASE	348.26	7.90	18.50	0	0.43	0.00	39.34	0.00
10yr3d	NSLRWCD C37	BASE	348.51	7.90	18.50	0	0.43	0.00	39.35	0.00
10yr3d	NSLRWCD C37	BASE	348.76	7.89	18.50	0	0.43	0.00	39.36	0.00
10yr3d	NSLRWCD C37	BASE	349.01	7.89	18.50	0	0.43	0.00	39.37	0.00
10yr3d	NSLRWCD C37	BASE	349.26	7.89	18.50	0	0.43	0.00	39.38	0.00
10yr3d	NSLRWCD C37	BASE	349.51	7.89	18.50	0	0.43	0.00	39.38	0.00
10yr3d	NSLRWCD C37	BASE	349.76	7.88	18.50	0	0.43	0.00	39.39	0.00
10yr3d	NSLRWCD C37	BASE	350.01	7.88	18.50	0	0.43	0.00	39.40	0.00
10yr3d	NSLRWCD C37	BASE	350.26	7.88	18.50	0	0.43	0.00	39.41	0.00
10yr3d	NSLRWCD C37	BASE	350.51	7.88	18.50	0	0.43	0.00	39.42	0.00
10yr3d	NSLRWCD C37	BASE	350.76	7.87	18.50	0	0.42	0.00	39.43	0.00
10yr3d	NSLRWCD C37	BASE	351.01	7.87	18.50	0	0.42	0.00	39.44	0.00
10yr3d	NSLRWCD C37	BASE	351.26	7.87	18.50	0	0.42	0.00	39.45	0.00
10yr3d	NSLRWCD C37	BASE	351.51	7.87	18.50	0	0.42	0.00	39.45	0.00
10yr3d	NSLRWCD C37	BASE	351.76	7.86	18.50	0	0.42	0.00	39.46	0.00
10yr3d	NSLRWCD C37	BASE	352.01	7.86	18.50	0	0.42	0.00	39.47	0.00
10yr3d	NSLRWCD C37	BASE	352.26	7.86	18.50	0	0.42	0.00	39.48	0.00
10yr3d	NSLRWCD C37	BASE	352.51	7.86	18.50	0	0.42	0.00	39.49	0.00
10yr3d	NSLRWCD C37	BASE	352.76	7.85	18.50	0	0.42	0.00	39.50	0.00
10yr3d	NSLRWCD C37	BASE	353.01	7.85	18.50	0	0.42	0.00	39.51	0.00
10yr3d	NSLRWCD C37	BASE	353.26	7.85	18.50	0	0.42	0.00	39.52	0.00
10yr3d	NSLRWCD C37	BASE	353.51	7.85	18.50	0	0.42	0.00	39.52	0.00
10yr3d	NSLRWCD C37	BASE	353.76	7.84	18.50	0	0.42	0.00	39.53	0.00
10yr3d	NSLRWCD C37	BASE	354.01	7.84	18.50	0	0.42	0.00	39.54	0.00
10yr3d	NSLRWCD C37	BASE	354.26	7.84	18.50	0	0.42	0.00	39.55	0.00
10yr3d	NSLRWCD C37	BASE	354.51	7.84	18.50	0	0.42	0.00	39.56	0.00
10yr3d	NSLRWCD C37	BASE	354.76	7.83	18.50	0	0.42	0.00	39.57	0.00
10yr3d	NSLRWCD C37	BASE	355.01	7.83	18.50	0	0.42	0.00	39.58	0.00
10yr3d	NSLRWCD C37	BASE	355.26	7.83	18.50	0	0.42	0.00	39.58	0.00
10yr3d	NSLRWCD C37	BASE	355.51	7.83	18.50	0	0.42	0.00	39.59	0.00
10yr3d	NSLRWCD C37	BASE	355.76	7.82	18.50	0	0.41	0.00	39.60	0.00
10yr3d	NSLRWCD C37	BASE	356.01	7.82	18.50	0	0.41	0.00	39.61	0.00
10yr3d	NSLRWCD C37	BASE	356.26	7.82	18.50	0	0.41	0.00	39.62	0.00
10yr3d	NSLRWCD C37	BASE	356.51	7.82	18.50	0	0.41	0.00	39.63	0.00
10yr3d	NSLRWCD C37	BASE	356.76	7.81	18.50	0	0.41	0.00	39.64	0.00
10yr3d	NSLRWCD C37	BASE	357.01	7.81	18.50	0	0.41	0.00	39.64	0.00
10yr3d	NSLRWCD C37	BASE	357.26	7.81	18.50	0	0.41	0.00	39.65	0.00
10yr3d	NSLRWCD C37	BASE	357.51	7.81	18.50	0	0.41	0.00	39.66	0.00
10yr3d	NSLRWCD C37	BASE	357.76	7.80	18.50	0	0.41	0.00	39.67	0.00
10yr3d	NSLRWCD C37	BASE	358.01	7.80	18.50	0	0.41	0.00	39.68	0.00
10yr3d	NSLRWCD C37	BASE	358.26	7.80	18.50	0	0.41	0.00	39.69	0.00
10yr3d	NSLRWCD C37	BASE	358.51	7.80	18.50	0	0.41	0.00	39.70	0.00
10yr3d	NSLRWCD C37	BASE	358.76	7.79	18.50	0	0.41	0.00	39.70	0.00
10yr3d	NSLRWCD C37	BASE	359.01	7.79	18.50	0	0.41	0.00	39.71	0.00
10yr3d	NSLRWCD C37	BASE	359.26	7.79	18.50	0	0.41	0.00	39.72	0.00
10yr3d	NSLRWCD C37	BASE	359.51	7.79	18.50	0	0.41	0.00	39.73	0.00
10yr3d	NSLRWCD C37	BASE	359.76	7.78	18.50	0	0.41	0.00	39.74	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	360.01	7.78	18.50	0	0.41	0.00	39.75	0.00
10yr3d	NSLRWCD C37	BASE	360.01	7.78	18.50	0	0.41	0.00	39.75	0.00

Appendix D - ICPR Routing
Existing Off-Site Condition Model

ENGINEERING DESIGN & CONSTRUCTION, INC
CIVIL ENGINEERS & SURVEYORS SPECIALIZING IN LAND DEVELOPMENT

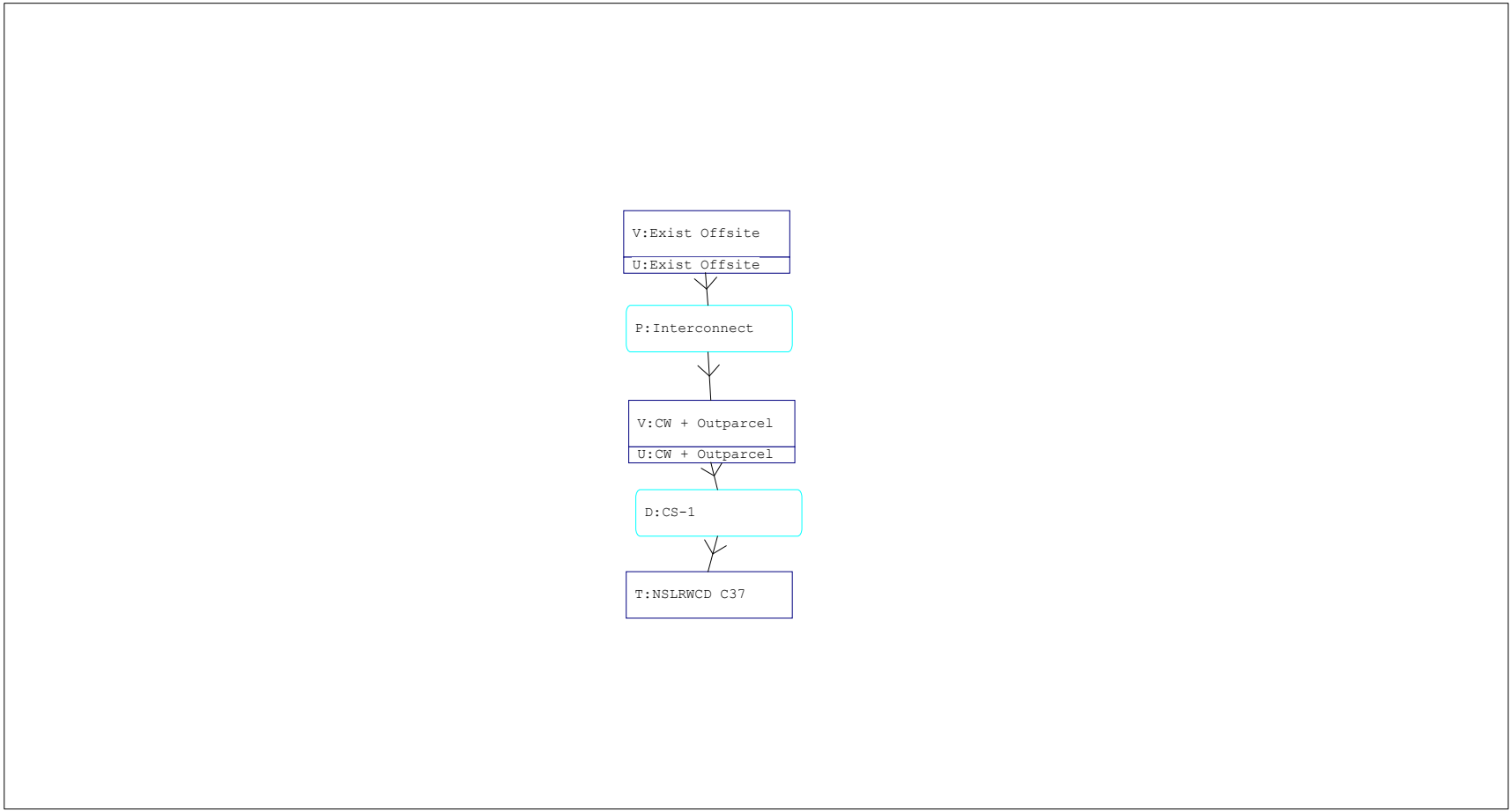
10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
772-462-2455

16-225 Camping World - Existing Off-Site Condition Storm Routing
Nodal Diagram

Nodes
A Stage/Area
V Stage/Volume
T Time/Stage
M Manhole

Basins
O Overland Flow
U SCS Unit CN
S SBUH CN
Y SCS Unit GA
Z SBUH GA

Links
P Pipe
W Weir
C Channel
D Drop Structure
B Bridge
R Rating Curve
H Breach
E Percolation
F Filter
X Exfil Trench



Interconnected Channel and Pond Routing Model (ICPR) ©2002 Streamline Technologies, Inc.

==========
==== Basins ====
==========

Name: CW + Outparcel Node: CW + Outparcel Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 28.970 Time Shift(hrs): 0.00
Curve Number: 94.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: Exist Offsite Node: Exist Offsite Status: Onsite
Group: Offsite Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 16.030 Time Shift(hrs): 0.00
Curve Number: 64.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

==========
==== Nodes ====
==========

Name: CW + Outparcel Base Flow(cfs): 0.000 Init Stage(ft): 10.000
Group: BASE Warn Stage(ft): 18.500
Type: Stage/Volume

Stage(ft)	Volume(af)
10.000	0.0000
10.500	1.6100
11.000	3.2600
11.500	4.9500
12.000	6.6700
12.500	8.4300
13.500	12.0700
14.500	16.0600
15.500	20.6900
16.500	27.4700
17.500	41.7200
18.500	64.4700

Name: Exist Offsite Base Flow(cfs): 0.000 Init Stage(ft): 10.000
Group: Offsite Warn Stage(ft): 18.500
Type: Stage/Volume

Stage(ft)	Volume(af)
10.000	0.0000
10.500	0.3300
11.000	0.6600
11.500	0.9900
12.000	1.3200
12.500	1.6500
13.500	2.3200
14.500	5.5400
15.500	13.8900
16.500	27.3500
17.500	43.3800
18.500	59.4100

Name: NSLRWCD C37 Base Flow(cfs): 0.000 Init Stage(ft): 7.780
Group: BASE Warn Stage(ft): 18.500
Type: Time/Stage

Time(hrs)	Stage(ft)
0.00	7.780

62.00	7.780
360.00	7.780

==========
==== Operating Tables ====
==========

Name: 10yr1d Group: 10yr1d
Type: Rating Curve
Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
24.00	1.00
120.00	0.00

Name: 10yr3d Group: 10yr3d
Type: Rating Curve
Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
62.00	1.41
360.00	0.00

Name: 25yr3d Group: 25yr3d
Type: Rating Curve
Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
62.00	1.58
360.00	0.00

==========
==== Pipes ====
==========

Name: Interconnect From Node: Exist Offsite Length(ft): 144.00
Group: BASE To Node: CW + Outparcel Count: 1
Friction Equation: Automatic
Solution Algorithm: Most Restrictive
Flow: Both
Entrance Loss Coef: 0.00
Exit Loss Coef: 1.00
Bend Loss Coef: 0.00
Outlet Ctrl Spec: Use dc or tw
Inlet Ctrl Spec: Use dc
Stabilizer Option: None

	UPSTREAM	DOWNSTREAM
Geometry:	Circular	Circular
Span(in):	36.00	36.00
Rise(in):	36.00	36.00
Invert(ft):	9.500	5.000
Manning's N:	0.012000	0.012000
Top Clip(in):	0.000	0.000
Bot Clip(in):	0.000	0.000

Upstream FHWA Inlet Edge Description:
Circular Concrete: Groove end projecting

Downstream FHWA Inlet Edge Description:
Circular Concrete: Groove end projecting

==========
==== Drop Structures ====
==========

Name: CS-1 From Node: CW + Outparcel Length(ft): 35.00
Group: Outfalls To Node: NSLRWCD C37 Count: 1

Friction Equation: Automatic
Solution Algorithm: Most Restrictive
Flow: Both
Entrance Loss Coef: 0.000
Exit Loss Coef: 1.000
Outlet Ctrl Spec: Use dc or tw
Inlet Ctrl Spec: Use dc
Solution Incs: 10

	UPSTREAM	DOWNSTREAM
Geometry:	Circular	Circular
Span(in):	36.00	36.00
Rise(in):	36.00	36.00
Invert(ft):	8.650	8.440
Manning's N:	0.012000	0.012000
Top Clip(in):	0.000	0.000
Bot Clip(in):	0.000	0.000

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Groove end projecting

*** Weir 1 of 4 for Drop Structure CS-1 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Circular	Orifice Disc Coef:	0.600
Span(in):	4.00	Invert(ft):	10.000
Rise(in):	4.00	Control Elev(ft):	10.000

*** Weir 2 of 4 for Drop Structure CS-1 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	8.00	Invert(ft):	11.600
Rise(in):	6.00	Control Elev(ft):	11.600

*** Weir 3 of 4 for Drop Structure CS-1 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	54.00	Invert(ft):	15.250
Rise(in):	6.00	Control Elev(ft):	15.250

*** Weir 4 of 4 for Drop Structure CS-1 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Horizontal	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	54.00	Invert(ft):	15.750
Rise(in):	18.00	Control Elev(ft):	15.750

==========
==== Hydrology Simulations ==========
==========

Name: 100yr3d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\100yr3d.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: Sfwmd72
Rainfall Amount(in): 12.23

Time(hrs)	Print Inc(min)
360.000	5.00

Name: 10yr1d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr1d.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: Scsiii
Rainfall Amount(in): 6.00

Time(hrs)	Print Inc(min)
360.000	5.00

Name: 10yr3d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr3d.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: Sfwmd72
Rainfall Amount(in): 8.50

Time(hrs) Print Inc(min)
--- ---
360.000 5.00

Name: 25yr3d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\25yr3d.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: Sfwmd72
Rainfall Amount(in): 9.50

Time(hrs) Print Inc(min)
--- ---
360.000 5.00

==========
==== Routing Simulations ==========
==========

Name: 100yr3d Hydrology Sim: 100yr3d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\100yr3d.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 360.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

Time(hrs) Print Inc(min)
--- ---
360.000 15.000

Group Run
--- ---
BASE Yes
Offsite Yes

Name: 10yr1d Hydrology Sim: 10yr1d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr1d.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 360.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: 10yr1d Boundary Flows:

Time(hrs) Print Inc(min)
--- ---
360.000 15.000

Group Run
--- ---
10yr1d Yes
BASE Yes
Offsite Yes
Outfalls Yes

Name: 10yr3d Hydrology Sim: 10yr3d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr3d.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 360.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: 10yr3d Boundary Flows:

Time(hrs)	Print Inc(min)
360.000	15.000

Group	Run
10yr3d	Yes
BASE	Yes
Offsite	Yes
Outfalls	Yes

Name: 25yr3d Hydrology Sim: 25yr3d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\25yr3d.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 360.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: 10yr3d Boundary Flows:

Time(hrs)	Print Inc(min)
360.000	15.000

Group	Run
25yr3d	Yes
BASE	Yes
Offsite	Yes
Outfalls	Yes

==========
==== Boundary Conditions ====
==========

Name: 10yr1d Node: NSLRWCD C37 Type: Stage

Time(hrs)	Stage(ft)
0.000	7.780
1.330	9.420
2.670	9.730
4.000	10.770
5.330	10.140
6.670	9.590
8.000	9.420
9.330	9.530
10.670	9.770
12.000	11.060
13.330	10.300
14.670	9.650
16.000	9.450
17.330	9.650
18.670	10.010
20.000	11.950
21.330	10.810
22.670	9.830
24.000	9.530
360.000	7.780

Name: 10yr3d Node: NSLRWCD C37 Type: Stage

Time(hrs)	Stage(ft)
0.000	7.780
4.000	10.580
8.000	10.950
12.000	12.060
16.000	11.360
20.000	10.760
24.000	10.580
28.000	10.700
32.000	10.960
36.000	12.390
40.000	11.540
44.000	10.830
48.000	10.610
52.000	10.830

56.000	11.230
60.000	13.370
64.000	12.110
68.000	11.020
72.000	10.700
360.000	7.780

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CW + Outparcel	BASE	100yr3d	72.88	15.57	18.50	0.0050	263581	60.00	134.38	0.00	0.00
CW + Outparcel	BASE	10yr1d	22.13	13.20	18.50	0.0050	163152	12.25	105.61	22.46	2.60
CW + Outparcel	BASE	10yr3d	68.48	14.45	18.50	0.0050	186591	60.00	102.60	72.00	3.39
CW + Outparcel	BASE	25yr3d	72.00	14.71	18.50	0.0050	200623	60.00	111.46	72.03	3.55
Exist Offsite	Offsite	100yr3d	73.03	15.57	18.50	0.0050	487057	60.00	68.72	33.42	5.55
Exist Offsite	Offsite	10yr1d	22.13	13.20	18.50	0.0050	68196	12.25	26.08	161.98	10.23
Exist Offsite	Offsite	10yr3d	68.52	14.45	18.50	0.0050	243084	60.00	40.99	246.24	11.36
Exist Offsite	Offsite	25yr3d	72.01	14.71	18.50	0.0050	299401	60.00	48.36	256.04	10.02
NSLRWCD C37	BASE	100yr3d	0.00	7.78	18.50	0.0000	0	0.00	0.00	0.00	0.00
NSLRWCD C37	BASE	10yr1d	20.00	11.94	18.50	0.0243	0	22.46	2.60	0.00	0.00
NSLRWCD C37	BASE	10yr3d	60.00	13.37	18.50	0.0117	0	72.00	3.39	0.00	0.00
NSLRWCD C37	BASE	25yr3d	60.00	13.37	18.50	0.0117	0	72.03	3.55	0.00	0.00

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	0.00	7.78	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	0.26	7.96	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	0.50	8.13	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	0.77	8.32	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	1.02	8.49	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	1.27	8.67	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	1.52	8.84	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	1.77	9.02	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	2.02	9.19	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	2.27	9.37	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	2.52	9.54	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	2.77	9.72	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	3.02	9.89	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	3.27	10.07	18.50	0	-0.01	0.00	-0.00	0.00
10yr3d	NSLRWCD C37	BASE	3.52	10.24	18.50	0	-0.10	0.00	-0.00	0.00
10yr3d	NSLRWCD C37	BASE	3.77	10.42	18.50	0	-0.21	0.00	-0.00	0.00
10yr3d	NSLRWCD C37	BASE	4.02	10.58	18.50	0	-0.27	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	4.27	10.60	18.50	0	-0.28	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	4.52	10.63	18.50	0	-0.28	0.00	-0.02	0.00
10yr3d	NSLRWCD C37	BASE	4.77	10.65	18.50	0	-0.29	0.00	-0.03	0.00
10yr3d	NSLRWCD C37	BASE	5.02	10.67	18.50	0	-0.30	0.00	-0.03	0.00
10yr3d	NSLRWCD C37	BASE	5.27	10.70	18.50	0	-0.31	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	5.52	10.72	18.50	0	-0.31	0.00	-0.05	0.00
10yr3d	NSLRWCD C37	BASE	5.77	10.74	18.50	0	-0.32	0.00	-0.05	0.00
10yr3d	NSLRWCD C37	BASE	6.02	10.77	18.50	0	-0.32	0.00	-0.06	0.00
10yr3d	NSLRWCD C37	BASE	6.27	10.79	18.50	0	-0.33	0.00	-0.07	0.00
10yr3d	NSLRWCD C37	BASE	6.52	10.81	18.50	0	-0.34	0.00	-0.07	0.00
10yr3d	NSLRWCD C37	BASE	6.77	10.84	18.50	0	-0.34	0.00	-0.08	0.00
10yr3d	NSLRWCD C37	BASE	7.02	10.86	18.50	0	-0.35	0.00	-0.09	0.00
10yr3d	NSLRWCD C37	BASE	7.27	10.88	18.50	0	-0.35	0.00	-0.09	0.00
10yr3d	NSLRWCD C37	BASE	7.52	10.91	18.50	0	-0.36	0.00	-0.10	0.00
10yr3d	NSLRWCD C37	BASE	7.77	10.93	18.50	0	-0.37	0.00	-0.11	0.00
10yr3d	NSLRWCD C37	BASE	8.02	10.95	18.50	0	-0.37	0.00	-0.12	0.00
10yr3d	NSLRWCD C37	BASE	8.27	11.02	18.50	0	-0.39	0.00	-0.12	0.00
10yr3d	NSLRWCD C37	BASE	8.52	11.09	18.50	0	-0.40	0.00	-0.13	0.00
10yr3d	NSLRWCD C37	BASE	8.77	11.16	18.50	0	-0.42	0.00	-0.14	0.00
10yr3d	NSLRWCD C37	BASE	9.02	11.23	18.50	0	-0.43	0.00	-0.15	0.00
10yr3d	NSLRWCD C37	BASE	9.27	11.30	18.50	0	-0.45	0.00	-0.16	0.00
10yr3d	NSLRWCD C37	BASE	9.52	11.37	18.50	0	-0.46	0.00	-0.17	0.00
10yr3d	NSLRWCD C37	BASE	9.77	11.44	18.50	0	-0.47	0.00	-0.18	0.00
10yr3d	NSLRWCD C37	BASE	10.02	11.51	18.50	0	-0.49	0.00	-0.19	0.00
10yr3d	NSLRWCD C37	BASE	10.27	11.58	18.50	0	-0.50	0.00	-0.20	0.00
10yr3d	NSLRWCD C37	BASE	10.52	11.65	18.50	0	-0.53	0.00	-0.21	0.00
10yr3d	NSLRWCD C37	BASE	10.77	11.72	18.50	0	-0.61	0.00	-0.22	0.00
10yr3d	NSLRWCD C37	BASE	11.02	11.79	18.50	0	-0.70	0.00	-0.23	0.00
10yr3d	NSLRWCD C37	BASE	11.27	11.86	18.50	0	-0.81	0.00	-0.25	0.00
10yr3d	NSLRWCD C37	BASE	11.52	11.93	18.50	0	-0.94	0.00	-0.27	0.00
10yr3d	NSLRWCD C37	BASE	11.77	12.00	18.50	0	-1.08	0.00	-0.29	0.00
10yr3d	NSLRWCD C37	BASE	12.02	12.06	18.50	0	-1.22	0.00	-0.31	0.00
10yr3d	NSLRWCD C37	BASE	12.27	12.01	18.50	0	-1.12	0.00	-0.34	0.00
10yr3d	NSLRWCD C37	BASE	12.52	11.97	18.50	0	-1.03	0.00	-0.36	0.00
10yr3d	NSLRWCD C37	BASE	12.77	11.93	18.50	0	-0.94	0.00	-0.38	0.00
10yr3d	NSLRWCD C37	BASE	13.02	11.88	18.50	0	-0.86	0.00	-0.40	0.00
10yr3d	NSLRWCD C37	BASE	13.27	11.84	18.50	0	-0.78	0.00	-0.41	0.00
10yr3d	NSLRWCD C37	BASE	13.52	11.79	18.50	0	-0.71	0.00	-0.43	0.00
10yr3d	NSLRWCD C37	BASE	13.77	11.75	18.50	0	-0.64	0.00	-0.44	0.00
10yr3d	NSLRWCD C37	BASE	14.02	11.71	18.50	0	-0.59	0.00	-0.46	0.00
10yr3d	NSLRWCD C37	BASE	14.27	11.66	18.50	0	-0.54	0.00	-0.47	0.00
10yr3d	NSLRWCD C37	BASE	14.52	11.62	18.50	0	-0.50	0.00	-0.48	0.00
10yr3d	NSLRWCD C37	BASE	14.77	11.58	18.50	0	-0.49	0.00	-0.49	0.00

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	15.02	11.53	18.50	0	-0.48	0.00	-0.50	0.00
10yr3d	NSLRWCD C37	BASE	15.27	11.49	18.50	0	-0.47	0.00	-0.51	0.00
10yr3d	NSLRWCD C37	BASE	15.52	11.44	18.50	0	-0.46	0.00	-0.52	0.00
10yr3d	NSLRWCD C37	BASE	15.77	11.40	18.50	0	-0.45	0.00	-0.53	0.00
10yr3d	NSLRWCD C37	BASE	16.02	11.36	18.50	0	-0.44	0.00	-0.54	0.00
10yr3d	NSLRWCD C37	BASE	16.27	11.32	18.50	0	-0.43	0.00	-0.55	0.00
10yr3d	NSLRWCD C37	BASE	16.52	11.28	18.50	0	-0.42	0.00	-0.55	0.00
10yr3d	NSLRWCD C37	BASE	16.77	11.25	18.50	0	-0.41	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	17.02	11.21	18.50	0	-0.40	0.00	-0.57	0.00
10yr3d	NSLRWCD C37	BASE	17.27	11.17	18.50	0	-0.39	0.00	-0.58	0.00
10yr3d	NSLRWCD C37	BASE	17.52	11.13	18.50	0	-0.38	0.00	-0.59	0.00
10yr3d	NSLRWCD C37	BASE	17.77	11.10	18.50	0	-0.37	0.00	-0.59	0.00
10yr3d	NSLRWCD C37	BASE	18.02	11.06	18.50	0	-0.36	0.00	-0.60	0.00
10yr3d	NSLRWCD C37	BASE	18.27	11.02	18.50	0	-0.35	0.00	-0.61	0.00
10yr3d	NSLRWCD C37	BASE	18.52	10.98	18.50	0	-0.34	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	18.77	10.95	18.50	0	-0.33	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	19.02	10.91	18.50	0	-0.32	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	19.27	10.87	18.50	0	-0.30	0.00	-0.64	0.00
10yr3d	NSLRWCD C37	BASE	19.52	10.83	18.50	0	-0.29	0.00	-0.64	0.00
10yr3d	NSLRWCD C37	BASE	19.77	10.80	18.50	0	-0.28	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	20.02	10.76	18.50	0	-0.26	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	20.27	10.75	18.50	0	-0.26	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	20.52	10.74	18.50	0	-0.25	0.00	-0.67	0.00
10yr3d	NSLRWCD C37	BASE	20.77	10.73	18.50	0	-0.25	0.00	-0.67	0.00
10yr3d	NSLRWCD C37	BASE	21.02	10.71	18.50	0	-0.24	0.00	-0.68	0.00
10yr3d	NSLRWCD C37	BASE	21.27	10.70	18.50	0	-0.23	0.00	-0.68	0.00
10yr3d	NSLRWCD C37	BASE	21.52	10.69	18.50	0	-0.23	0.00	-0.69	0.00
10yr3d	NSLRWCD C37	BASE	21.77	10.68	18.50	0	-0.22	0.00	-0.69	0.00
10yr3d	NSLRWCD C37	BASE	22.02	10.67	18.50	0	-0.21	0.00	-0.69	0.00
10yr3d	NSLRWCD C37	BASE	22.27	10.66	18.50	0	-0.21	0.00	-0.70	0.00
10yr3d	NSLRWCD C37	BASE	22.52	10.65	18.50	0	-0.20	0.00	-0.70	0.00
10yr3d	NSLRWCD C37	BASE	22.77	10.64	18.50	0	-0.19	0.00	-0.71	0.00
10yr3d	NSLRWCD C37	BASE	23.02	10.62	18.50	0	-0.18	0.00	-0.71	0.00
10yr3d	NSLRWCD C37	BASE	23.27	10.61	18.50	0	-0.18	0.00	-0.71	0.00
10yr3d	NSLRWCD C37	BASE	23.52	10.60	18.50	0	-0.17	0.00	-0.72	0.00
10yr3d	NSLRWCD C37	BASE	23.77	10.59	18.50	0	-0.16	0.00	-0.72	0.00
10yr3d	NSLRWCD C37	BASE	24.02	10.58	18.50	0	-0.15	0.00	-0.72	0.00
10yr3d	NSLRWCD C37	BASE	24.27	10.59	18.50	0	-0.15	0.00	-0.73	0.00
10yr3d	NSLRWCD C37	BASE	24.52	10.60	18.50	0	-0.15	0.00	-0.73	0.00
10yr3d	NSLRWCD C37	BASE	24.77	10.60	18.50	0	-0.15	0.00	-0.73	0.00
10yr3d	NSLRWCD C37	BASE	25.02	10.61	18.50	0	-0.15	0.00	-0.74	0.00
10yr3d	NSLRWCD C37	BASE	25.27	10.62	18.50	0	-0.15	0.00	-0.74	0.00
10yr3d	NSLRWCD C37	BASE	25.52	10.63	18.50	0	-0.15	0.00	-0.74	0.00
10yr3d	NSLRWCD C37	BASE	25.77	10.63	18.50	0	-0.15	0.00	-0.75	0.00
10yr3d	NSLRWCD C37	BASE	26.02	10.64	18.50	0	-0.15	0.00	-0.75	0.00
10yr3d	NSLRWCD C37	BASE	26.27	10.65	18.50	0	-0.15	0.00	-0.75	0.00
10yr3d	NSLRWCD C37	BASE	26.52	10.66	18.50	0	-0.15	0.00	-0.76	0.00
10yr3d	NSLRWCD C37	BASE	26.77	10.66	18.50	0	-0.15	0.00	-0.76	0.00
10yr3d	NSLRWCD C37	BASE	27.02	10.67	18.50	0	-0.15	0.00	-0.76	0.00
10yr3d	NSLRWCD C37	BASE	27.27	10.68	18.50	0	-0.15	0.00	-0.77	0.00
10yr3d	NSLRWCD C37	BASE	27.52	10.69	18.50	0	-0.15	0.00	-0.77	0.00
10yr3d	NSLRWCD C37	BASE	27.77	10.69	18.50	0	-0.15	0.00	-0.77	0.00
10yr3d	NSLRWCD C37	BASE	28.02	10.70	18.50	0	-0.15	0.00	-0.77	0.00
10yr3d	NSLRWCD C37	BASE	28.27	10.72	18.50	0	-0.15	0.00	-0.78	0.00
10yr3d	NSLRWCD C37	BASE	28.52	10.73	18.50	0	-0.16	0.00	-0.78	0.00
10yr3d	NSLRWCD C37	BASE	28.77	10.75	18.50	0	-0.16	0.00	-0.78	0.00
10yr3d	NSLRWCD C37	BASE	29.02	10.77	18.50	0	-0.17	0.00	-0.79	0.00
10yr3d	NSLRWCD C37	BASE	29.27	10.78	18.50	0	-0.17	0.00	-0.79	0.00
10yr3d	NSLRWCD C37	BASE	29.52	10.80	18.50	0	-0.18	0.00	-0.79	0.00
10yr3d	NSLRWCD C37	BASE	29.77	10.81	18.50	0	-0.18	0.00	-0.80	0.00

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	30.02	10.83	18.50	0	-0.18	0.00	-0.80	0.00
10yr3d	NSLRWCD C37	BASE	30.27	10.85	18.50	0	-0.19	0.00	-0.81	0.00
10yr3d	NSLRWCD C37	BASE	30.52	10.86	18.50	0	-0.19	0.00	-0.81	0.00
10yr3d	NSLRWCD C37	BASE	30.77	10.88	18.50	0	-0.19	0.00	-0.81	0.00
10yr3d	NSLRWCD C37	BASE	31.02	10.90	18.50	0	-0.20	0.00	-0.82	0.00
10yr3d	NSLRWCD C37	BASE	31.27	10.91	18.50	0	-0.20	0.00	-0.82	0.00
10yr3d	NSLRWCD C37	BASE	31.52	10.93	18.50	0	-0.20	0.00	-0.83	0.00
10yr3d	NSLRWCD C37	BASE	31.77	10.94	18.50	0	-0.21	0.00	-0.83	0.00
10yr3d	NSLRWCD C37	BASE	32.02	10.97	18.50	0	-0.21	0.00	-0.83	0.00
10yr3d	NSLRWCD C37	BASE	32.27	11.06	18.50	0	-0.24	0.00	-0.84	0.00
10yr3d	NSLRWCD C37	BASE	32.52	11.14	18.50	0	-0.27	0.00	-0.84	0.00
10yr3d	NSLRWCD C37	BASE	32.77	11.23	18.50	0	-0.30	0.00	-0.85	0.00
10yr3d	NSLRWCD C37	BASE	33.02	11.32	18.50	0	-0.32	0.00	-0.86	0.00
10yr3d	NSLRWCD C37	BASE	33.27	11.41	18.50	0	-0.34	0.00	-0.86	0.00
10yr3d	NSLRWCD C37	BASE	33.52	11.50	18.50	0	-0.36	0.00	-0.87	0.00
10yr3d	NSLRWCD C37	BASE	33.77	11.59	18.50	0	-0.38	0.00	-0.88	0.00
10yr3d	NSLRWCD C37	BASE	34.02	11.68	18.50	0	-0.44	0.00	-0.89	0.00
10yr3d	NSLRWCD C37	BASE	34.27	11.77	18.50	0	-0.56	0.00	-0.90	0.00
10yr3d	NSLRWCD C37	BASE	34.52	11.86	18.50	0	-0.71	0.00	-0.91	0.00
10yr3d	NSLRWCD C37	BASE	34.77	11.95	18.50	0	-0.88	0.00	-0.93	0.00
10yr3d	NSLRWCD C37	BASE	35.02	12.04	18.50	0	-1.06	0.00	-0.95	0.00
10yr3d	NSLRWCD C37	BASE	35.27	12.13	18.50	0	-1.26	0.00	-0.97	0.00
10yr3d	NSLRWCD C37	BASE	35.52	12.22	18.50	0	-1.44	0.00	-1.00	0.00
10yr3d	NSLRWCD C37	BASE	35.77	12.31	18.50	0	-1.57	0.00	-1.03	0.00
10yr3d	NSLRWCD C37	BASE	36.02	12.39	18.50	0	-1.67	0.00	-1.06	0.00
10yr3d	NSLRWCD C37	BASE	36.27	12.33	18.50	0	-1.60	0.00	-1.10	0.00
10yr3d	NSLRWCD C37	BASE	36.52	12.28	18.50	0	-1.52	0.00	-1.13	0.00
10yr3d	NSLRWCD C37	BASE	36.77	12.23	18.50	0	-1.44	0.00	-1.16	0.00
10yr3d	NSLRWCD C37	BASE	37.02	12.17	18.50	0	-1.34	0.00	-1.19	0.00
10yr3d	NSLRWCD C37	BASE	37.27	12.12	18.50	0	-1.23	0.00	-1.22	0.00
10yr3d	NSLRWCD C37	BASE	37.52	12.07	18.50	0	-1.10	0.00	-1.24	0.00
10yr3d	NSLRWCD C37	BASE	37.77	12.01	18.50	0	-0.98	0.00	-1.26	0.00
10yr3d	NSLRWCD C37	BASE	38.02	11.96	18.50	0	-0.86	0.00	-1.28	0.00
10yr3d	NSLRWCD C37	BASE	38.27	11.91	18.50	0	-0.75	0.00	-1.30	0.00
10yr3d	NSLRWCD C37	BASE	38.52	11.86	18.50	0	-0.65	0.00	-1.31	0.00
10yr3d	NSLRWCD C37	BASE	38.77	11.80	18.50	0	-0.55	0.00	-1.32	0.00
10yr3d	NSLRWCD C37	BASE	39.02	11.75	18.50	0	-0.47	0.00	-1.33	0.00
10yr3d	NSLRWCD C37	BASE	39.27	11.70	18.50	0	-0.39	0.00	-1.34	0.00
10yr3d	NSLRWCD C37	BASE	39.52	11.64	18.50	0	-0.33	0.00	-1.35	0.00
10yr3d	NSLRWCD C37	BASE	39.77	11.59	18.50	0	-0.30	0.00	-1.36	0.00
10yr3d	NSLRWCD C37	BASE	40.02	11.54	18.50	0	-0.28	0.00	-1.36	0.00
10yr3d	NSLRWCD C37	BASE	40.27	11.49	18.50	0	-0.26	0.00	-1.37	0.00
10yr3d	NSLRWCD C37	BASE	40.52	11.45	18.50	0	-0.24	0.00	-1.37	0.00
10yr3d	NSLRWCD C37	BASE	40.77	11.40	18.50	0	-0.22	0.00	-1.38	0.00
10yr3d	NSLRWCD C37	BASE	41.02	11.36	18.50	0	-0.19	0.00	-1.38	0.00
10yr3d	NSLRWCD C37	BASE	41.27	11.32	18.50	0	-0.17	0.00	-1.39	0.00
10yr3d	NSLRWCD C37	BASE	41.52	11.27	18.50	0	-0.14	0.00	-1.39	0.00
10yr3d	NSLRWCD C37	BASE	41.77	11.23	18.50	0	-0.10	0.00	-1.39	0.00
10yr3d	NSLRWCD C37	BASE	42.02	11.18	18.50	0	-0.01	0.00	-1.39	0.00
10yr3d	NSLRWCD C37	BASE	42.27	11.14	18.50	0	0.10	0.00	-1.39	0.00
10yr3d	NSLRWCD C37	BASE	42.52	11.09	18.50	0	0.14	0.00	-1.39	0.00
10yr3d	NSLRWCD C37	BASE	42.77	11.05	18.50	0	0.17	0.00	-1.39	0.00
10yr3d	NSLRWCD C37	BASE	43.02	11.00	18.50	0	0.19	0.00	-1.38	0.00
10yr3d	NSLRWCD C37	BASE	43.27	10.96	18.50	0	0.21	0.00	-1.38	0.00
10yr3d	NSLRWCD C37	BASE	43.52	10.92	18.50	0	0.24	0.00	-1.37	0.00
10yr3d	NSLRWCD C37	BASE	43.77	10.87	18.50	0	0.25	0.00	-1.37	0.00
10yr3d	NSLRWCD C37	BASE	44.02	10.83	18.50	0	0.27	0.00	-1.36	0.00
10yr3d	NSLRWCD C37	BASE	44.27	10.82	18.50	0	0.28	0.00	-1.36	0.00
10yr3d	NSLRWCD C37	BASE	44.52	10.80	18.50	0	0.28	0.00	-1.35	0.00
10yr3d	NSLRWCD C37	BASE	44.77	10.79	18.50	0	0.29	0.00	-1.35	0.00

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	45.02	10.77	18.50	0	0.30	0.00	-1.34	0.00
10yr3d	NSLRWCD C37	BASE	45.27	10.76	18.50	0	0.30	0.00	-1.33	0.00
10yr3d	NSLRWCD C37	BASE	45.52	10.75	18.50	0	0.31	0.00	-1.33	0.00
10yr3d	NSLRWCD C37	BASE	45.77	10.73	18.50	0	0.32	0.00	-1.32	0.00
10yr3d	NSLRWCD C37	BASE	46.02	10.72	18.50	0	0.32	0.00	-1.31	0.00
10yr3d	NSLRWCD C37	BASE	46.27	10.71	18.50	0	0.33	0.00	-1.31	0.00
10yr3d	NSLRWCD C37	BASE	46.52	10.69	18.50	0	0.33	0.00	-1.30	0.00
10yr3d	NSLRWCD C37	BASE	46.77	10.68	18.50	0	0.34	0.00	-1.29	0.00
10yr3d	NSLRWCD C37	BASE	47.02	10.66	18.50	0	0.34	0.00	-1.29	0.00
10yr3d	NSLRWCD C37	BASE	47.27	10.65	18.50	0	0.35	0.00	-1.28	0.00
10yr3d	NSLRWCD C37	BASE	47.52	10.64	18.50	0	0.35	0.00	-1.27	0.00
10yr3d	NSLRWCD C37	BASE	47.77	10.62	18.50	0	0.36	0.00	-1.27	0.00
10yr3d	NSLRWCD C37	BASE	48.02	10.61	18.50	0	0.36	0.00	-1.26	0.00
10yr3d	NSLRWCD C37	BASE	48.27	10.62	18.50	0	0.36	0.00	-1.25	0.00
10yr3d	NSLRWCD C37	BASE	48.52	10.64	18.50	0	0.36	0.00	-1.24	0.00
10yr3d	NSLRWCD C37	BASE	48.77	10.65	18.50	0	0.36	0.00	-1.24	0.00
10yr3d	NSLRWCD C37	BASE	49.02	10.67	18.50	0	0.36	0.00	-1.23	0.00
10yr3d	NSLRWCD C37	BASE	49.27	10.68	18.50	0	0.36	0.00	-1.22	0.00
10yr3d	NSLRWCD C37	BASE	49.52	10.69	18.50	0	0.36	0.00	-1.21	0.00
10yr3d	NSLRWCD C37	BASE	49.77	10.71	18.50	0	0.36	0.00	-1.21	0.00
10yr3d	NSLRWCD C37	BASE	50.02	10.72	18.50	0	0.35	0.00	-1.20	0.00
10yr3d	NSLRWCD C37	BASE	50.27	10.73	18.50	0	0.35	0.00	-1.19	0.00
10yr3d	NSLRWCD C37	BASE	50.52	10.75	18.50	0	0.35	0.00	-1.18	0.00
10yr3d	NSLRWCD C37	BASE	50.77	10.76	18.50	0	0.35	0.00	-1.18	0.00
10yr3d	NSLRWCD C37	BASE	51.02	10.78	18.50	0	0.35	0.00	-1.17	0.00
10yr3d	NSLRWCD C37	BASE	51.27	10.79	18.50	0	0.35	0.00	-1.16	0.00
10yr3d	NSLRWCD C37	BASE	51.52	10.80	18.50	0	0.35	0.00	-1.15	0.00
10yr3d	NSLRWCD C37	BASE	51.77	10.82	18.50	0	0.35	0.00	-1.15	0.00
10yr3d	NSLRWCD C37	BASE	52.02	10.83	18.50	0	0.35	0.00	-1.14	0.00
10yr3d	NSLRWCD C37	BASE	52.27	10.86	18.50	0	0.35	0.00	-1.13	0.00
10yr3d	NSLRWCD C37	BASE	52.52	10.88	18.50	0	0.34	0.00	-1.13	0.00
10yr3d	NSLRWCD C37	BASE	52.77	10.91	18.50	0	0.34	0.00	-1.12	0.00
10yr3d	NSLRWCD C37	BASE	53.02	10.93	18.50	0	0.34	0.00	-1.11	0.00
10yr3d	NSLRWCD C37	BASE	53.27	10.96	18.50	0	0.34	0.00	-1.11	0.00
10yr3d	NSLRWCD C37	BASE	53.52	10.98	18.50	0	0.34	0.00	-1.10	0.00
10yr3d	NSLRWCD C37	BASE	53.77	11.01	18.50	0	0.35	0.00	-1.09	0.00
10yr3d	NSLRWCD C37	BASE	54.02	11.03	18.50	0	0.37	0.00	-1.08	0.00
10yr3d	NSLRWCD C37	BASE	54.27	11.06	18.50	0	0.38	0.00	-1.08	0.00
10yr3d	NSLRWCD C37	BASE	54.52	11.08	18.50	0	0.41	0.00	-1.07	0.00
10yr3d	NSLRWCD C37	BASE	54.77	11.11	18.50	0	0.44	0.00	-1.06	0.00
10yr3d	NSLRWCD C37	BASE	55.02	11.13	18.50	0	0.47	0.00	-1.05	0.00
10yr3d	NSLRWCD C37	BASE	55.27	11.16	18.50	0	0.50	0.00	-1.04	0.00
10yr3d	NSLRWCD C37	BASE	55.52	11.18	18.50	0	0.54	0.00	-1.03	0.00
10yr3d	NSLRWCD C37	BASE	55.77	11.21	18.50	0	0.59	0.00	-1.02	0.00
10yr3d	NSLRWCD C37	BASE	56.02	11.24	18.50	0	0.64	0.00	-1.00	0.00
10yr3d	NSLRWCD C37	BASE	56.27	11.37	18.50	0	0.66	0.00	-0.99	0.00
10yr3d	NSLRWCD C37	BASE	56.52	11.51	18.50	0	0.69	0.00	-0.98	0.00
10yr3d	NSLRWCD C37	BASE	56.77	11.64	18.50	0	0.71	0.00	-0.96	0.00
10yr3d	NSLRWCD C37	BASE	57.02	11.77	18.50	0	0.68	0.00	-0.95	0.00
10yr3d	NSLRWCD C37	BASE	57.27	11.91	18.50	0	0.60	0.00	-0.93	0.00
10yr3d	NSLRWCD C37	BASE	57.52	12.04	18.50	0	0.36	0.00	-0.93	0.00
10yr3d	NSLRWCD C37	BASE	57.77	12.17	18.50	0	-0.43	0.00	-0.93	0.00
10yr3d	NSLRWCD C37	BASE	58.02	12.31	18.50	0	-0.72	0.00	-0.94	0.00
10yr3d	NSLRWCD C37	BASE	58.27	12.44	18.50	0	-0.91	0.00	-0.95	0.00
10yr3d	NSLRWCD C37	BASE	58.52	12.58	18.50	0	-1.07	0.00	-0.98	0.00
10yr3d	NSLRWCD C37	BASE	58.77	12.71	18.50	0	-1.19	0.00	-1.00	0.00
10yr3d	NSLRWCD C37	BASE	59.01	12.84	18.50	0	-1.28	0.00	-1.02	0.00
10yr3d	NSLRWCD C37	BASE	59.25	12.97	18.50	0	-1.35	0.00	-1.05	0.00
10yr3d	NSLRWCD C37	BASE	59.51	13.11	18.50	0	-1.38	0.00	-1.08	0.00
10yr3d	NSLRWCD C37	BASE	59.75	13.24	18.50	0	-1.14	0.00	-1.10	0.00

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	60.00	13.37	18.50	0	0.53	0.00	-1.11	0.00
10yr3d	NSLRWCD C37	BASE	60.25	13.29	18.50	0	1.50	0.00	-1.09	0.00
10yr3d	NSLRWCD C37	BASE	60.50	13.21	18.50	0	1.82	0.00	-1.05	0.00
10yr3d	NSLRWCD C37	BASE	60.76	13.13	18.50	0	2.01	0.00	-1.01	0.00
10yr3d	NSLRWCD C37	BASE	61.01	13.05	18.50	0	2.13	0.00	-0.97	0.00
10yr3d	NSLRWCD C37	BASE	61.25	12.98	18.50	0	2.23	0.00	-0.93	0.00
10yr3d	NSLRWCD C37	BASE	61.52	12.89	18.50	0	2.33	0.00	-0.88	0.00
10yr3d	NSLRWCD C37	BASE	61.77	12.81	18.50	0	2.42	0.00	-0.83	0.00
10yr3d	NSLRWCD C37	BASE	62.02	12.73	18.50	0	2.50	0.00	-0.78	0.00
10yr3d	NSLRWCD C37	BASE	62.27	12.66	18.50	0	2.58	0.00	-0.73	0.00
10yr3d	NSLRWCD C37	BASE	62.52	12.58	18.50	0	2.65	0.00	-0.67	0.00
10yr3d	NSLRWCD C37	BASE	62.77	12.50	18.50	0	2.72	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	63.02	12.42	18.50	0	2.79	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	63.27	12.34	18.50	0	2.85	0.00	-0.50	0.00
10yr3d	NSLRWCD C37	BASE	63.52	12.26	18.50	0	2.92	0.00	-0.44	0.00
10yr3d	NSLRWCD C37	BASE	63.77	12.18	18.50	0	2.98	0.00	-0.38	0.00
10yr3d	NSLRWCD C37	BASE	64.02	12.11	18.50	0	3.04	0.00	-0.32	0.00
10yr3d	NSLRWCD C37	BASE	64.27	12.04	18.50	0	3.09	0.00	-0.25	0.00
10yr3d	NSLRWCD C37	BASE	64.52	11.97	18.50	0	3.14	0.00	-0.19	0.00
10yr3d	NSLRWCD C37	BASE	64.77	11.90	18.50	0	3.18	0.00	-0.12	0.00
10yr3d	NSLRWCD C37	BASE	65.02	11.83	18.50	0	3.22	0.00	-0.06	0.00
10yr3d	NSLRWCD C37	BASE	65.27	11.77	18.50	0	3.23	0.00	0.01	0.00
10yr3d	NSLRWCD C37	BASE	65.52	11.70	18.50	0	3.25	0.00	0.08	0.00
10yr3d	NSLRWCD C37	BASE	65.77	11.63	18.50	0	3.26	0.00	0.14	0.00
10yr3d	NSLRWCD C37	BASE	66.02	11.56	18.50	0	3.28	0.00	0.21	0.00
10yr3d	NSLRWCD C37	BASE	66.27	11.49	18.50	0	3.29	0.00	0.28	0.00
10yr3d	NSLRWCD C37	BASE	66.52	11.42	18.50	0	3.30	0.00	0.35	0.00
10yr3d	NSLRWCD C37	BASE	66.77	11.36	18.50	0	3.31	0.00	0.41	0.00
10yr3d	NSLRWCD C37	BASE	67.02	11.29	18.50	0	3.32	0.00	0.48	0.00
10yr3d	NSLRWCD C37	BASE	67.27	11.22	18.50	0	3.33	0.00	0.55	0.00
10yr3d	NSLRWCD C37	BASE	67.52	11.15	18.50	0	3.34	0.00	0.62	0.00
10yr3d	NSLRWCD C37	BASE	67.77	11.08	18.50	0	3.35	0.00	0.69	0.00
10yr3d	NSLRWCD C37	BASE	68.02	11.02	18.50	0	3.36	0.00	0.76	0.00
10yr3d	NSLRWCD C37	BASE	68.27	11.00	18.50	0	3.36	0.00	0.83	0.00
10yr3d	NSLRWCD C37	BASE	68.52	10.98	18.50	0	3.36	0.00	0.90	0.00
10yr3d	NSLRWCD C37	BASE	68.77	10.96	18.50	0	3.36	0.00	0.97	0.00
10yr3d	NSLRWCD C37	BASE	69.02	10.94	18.50	0	3.37	0.00	1.04	0.00
10yr3d	NSLRWCD C37	BASE	69.27	10.92	18.50	0	3.37	0.00	1.11	0.00
10yr3d	NSLRWCD C37	BASE	69.52	10.90	18.50	0	3.37	0.00	1.18	0.00
10yr3d	NSLRWCD C37	BASE	69.77	10.88	18.50	0	3.37	0.00	1.24	0.00
10yr3d	NSLRWCD C37	BASE	70.02	10.86	18.50	0	3.37	0.00	1.31	0.00
10yr3d	NSLRWCD C37	BASE	70.27	10.84	18.50	0	3.37	0.00	1.38	0.00
10yr3d	NSLRWCD C37	BASE	70.52	10.82	18.50	0	3.38	0.00	1.45	0.00
10yr3d	NSLRWCD C37	BASE	70.77	10.80	18.50	0	3.38	0.00	1.52	0.00
10yr3d	NSLRWCD C37	BASE	71.02	10.78	18.50	0	3.38	0.00	1.59	0.00
10yr3d	NSLRWCD C37	BASE	71.27	10.76	18.50	0	3.38	0.00	1.66	0.00
10yr3d	NSLRWCD C37	BASE	71.52	10.74	18.50	0	3.38	0.00	1.73	0.00
10yr3d	NSLRWCD C37	BASE	71.77	10.72	18.50	0	3.39	0.00	1.80	0.00
10yr3d	NSLRWCD C37	BASE	72.02	10.70	18.50	0	3.39	0.00	1.87	0.00
10yr3d	NSLRWCD C37	BASE	72.27	10.70	18.50	0	3.39	0.00	1.94	0.00
10yr3d	NSLRWCD C37	BASE	72.52	10.69	18.50	0	3.38	0.00	2.01	0.00
10yr3d	NSLRWCD C37	BASE	72.77	10.69	18.50	0	3.38	0.00	2.08	0.00
10yr3d	NSLRWCD C37	BASE	73.02	10.69	18.50	0	3.37	0.00	2.15	0.00
10yr3d	NSLRWCD C37	BASE	73.27	10.69	18.50	0	3.37	0.00	2.22	0.00
10yr3d	NSLRWCD C37	BASE	73.52	10.68	18.50	0	3.37	0.00	2.29	0.00
10yr3d	NSLRWCD C37	BASE	73.77	10.68	18.50	0	3.36	0.00	2.36	0.00
10yr3d	NSLRWCD C37	BASE	74.02	10.68	18.50	0	3.36	0.00	2.43	0.00
10yr3d	NSLRWCD C37	BASE	74.27	10.68	18.50	0	3.35	0.00	2.50	0.00
10yr3d	NSLRWCD C37	BASE	74.52	10.67	18.50	0	3.35	0.00	2.57	0.00
10yr3d	NSLRWCD C37	BASE	74.77	10.67	18.50	0	3.35	0.00	2.64	0.00

Max Discharge Volume in 24-hrs = 6.49 acft
Less than Allowable 2" over 45 ac = 7.65 acft

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	75.02	10.67	18.50	0	3.34	0.00	2.71	0.00
10yr3d	NSLRWCD C37	BASE	75.27	10.67	18.50	0	3.34	0.00	2.78	0.00
10yr3d	NSLRWCD C37	BASE	75.52	10.66	18.50	0	3.33	0.00	2.85	0.00
10yr3d	NSLRWCD C37	BASE	75.77	10.66	18.50	0	3.33	0.00	2.91	0.00
10yr3d	NSLRWCD C37	BASE	76.02	10.66	18.50	0	3.32	0.00	2.98	0.00
10yr3d	NSLRWCD C37	BASE	76.27	10.66	18.50	0	3.32	0.00	3.05	0.00
10yr3d	NSLRWCD C37	BASE	76.52	10.65	18.50	0	3.32	0.00	3.12	0.00
10yr3d	NSLRWCD C37	BASE	76.77	10.65	18.50	0	3.31	0.00	3.19	0.00
10yr3d	NSLRWCD C37	BASE	77.02	10.65	18.50	0	3.31	0.00	3.26	0.00
10yr3d	NSLRWCD C37	BASE	77.27	10.65	18.50	0	3.30	0.00	3.33	0.00
10yr3d	NSLRWCD C37	BASE	77.52	10.64	18.50	0	3.30	0.00	3.39	0.00
10yr3d	NSLRWCD C37	BASE	77.77	10.64	18.50	0	3.29	0.00	3.46	0.00
10yr3d	NSLRWCD C37	BASE	78.02	10.64	18.50	0	3.29	0.00	3.53	0.00
10yr3d	NSLRWCD C37	BASE	78.27	10.64	18.50	0	3.29	0.00	3.60	0.00
10yr3d	NSLRWCD C37	BASE	78.52	10.63	18.50	0	3.28	0.00	3.67	0.00
10yr3d	NSLRWCD C37	BASE	78.77	10.63	18.50	0	3.28	0.00	3.73	0.00
10yr3d	NSLRWCD C37	BASE	79.02	10.63	18.50	0	3.27	0.00	3.80	0.00
10yr3d	NSLRWCD C37	BASE	79.27	10.63	18.50	0	3.27	0.00	3.87	0.00
10yr3d	NSLRWCD C37	BASE	79.52	10.62	18.50	0	3.26	0.00	3.94	0.00
10yr3d	NSLRWCD C37	BASE	79.77	10.62	18.50	0	3.26	0.00	4.00	0.00
10yr3d	NSLRWCD C37	BASE	80.02	10.62	18.50	0	3.25	0.00	4.07	0.00
10yr3d	NSLRWCD C37	BASE	80.27	10.62	18.50	0	3.25	0.00	4.14	0.00
10yr3d	NSLRWCD C37	BASE	80.52	10.61	18.50	0	3.25	0.00	4.21	0.00
10yr3d	NSLRWCD C37	BASE	80.77	10.61	18.50	0	3.24	0.00	4.27	0.00
10yr3d	NSLRWCD C37	BASE	81.02	10.61	18.50	0	3.24	0.00	4.34	0.00
10yr3d	NSLRWCD C37	BASE	81.27	10.61	18.50	0	3.23	0.00	4.41	0.00
10yr3d	NSLRWCD C37	BASE	81.52	10.60	18.50	0	3.23	0.00	4.47	0.00
10yr3d	NSLRWCD C37	BASE	81.77	10.60	18.50	0	3.22	0.00	4.54	0.00
10yr3d	NSLRWCD C37	BASE	82.02	10.60	18.50	0	3.22	0.00	4.61	0.00
10yr3d	NSLRWCD C37	BASE	82.27	10.60	18.50	0	3.21	0.00	4.67	0.00
10yr3d	NSLRWCD C37	BASE	82.52	10.59	18.50	0	3.21	0.00	4.74	0.00
10yr3d	NSLRWCD C37	BASE	82.77	10.59	18.50	0	3.20	0.00	4.81	0.00
10yr3d	NSLRWCD C37	BASE	83.02	10.59	18.50	0	3.20	0.00	4.87	0.00
10yr3d	NSLRWCD C37	BASE	83.27	10.59	18.50	0	3.19	0.00	4.94	0.00
10yr3d	NSLRWCD C37	BASE	83.52	10.58	18.50	0	3.19	0.00	5.00	0.00
10yr3d	NSLRWCD C37	BASE	83.77	10.58	18.50	0	3.18	0.00	5.07	0.00
10yr3d	NSLRWCD C37	BASE	84.02	10.58	18.50	0	3.18	0.00	5.13	0.00
10yr3d	NSLRWCD C37	BASE	84.27	10.58	18.50	0	3.18	0.00	5.20	0.00
10yr3d	NSLRWCD C37	BASE	84.52	10.57	18.50	0	3.17	0.00	5.27	0.00
10yr3d	NSLRWCD C37	BASE	84.77	10.57	18.50	0	3.17	0.00	5.33	0.00
10yr3d	NSLRWCD C37	BASE	85.02	10.57	18.50	0	3.16	0.00	5.40	0.00
10yr3d	NSLRWCD C37	BASE	85.27	10.57	18.50	0	3.16	0.00	5.46	0.00
10yr3d	NSLRWCD C37	BASE	85.52	10.56	18.50	0	3.15	0.00	5.53	0.00
10yr3d	NSLRWCD C37	BASE	85.77	10.56	18.50	0	3.15	0.00	5.59	0.00
10yr3d	NSLRWCD C37	BASE	86.02	10.56	18.50	0	3.14	0.00	5.66	0.00
10yr3d	NSLRWCD C37	BASE	86.27	10.56	18.50	0	3.14	0.00	5.72	0.00
10yr3d	NSLRWCD C37	BASE	86.52	10.55	18.50	0	3.13	0.00	5.79	0.00
10yr3d	NSLRWCD C37	BASE	86.77	10.55	18.50	0	3.13	0.00	5.85	0.00
10yr3d	NSLRWCD C37	BASE	87.02	10.55	18.50	0	3.12	0.00	5.92	0.00
10yr3d	NSLRWCD C37	BASE	87.27	10.55	18.50	0	3.12	0.00	5.98	0.00
10yr3d	NSLRWCD C37	BASE	87.52	10.54	18.50	0	3.11	0.00	6.04	0.00
10yr3d	NSLRWCD C37	BASE	87.77	10.54	18.50	0	3.10	0.00	6.11	0.00
10yr3d	NSLRWCD C37	BASE	88.02	10.54	18.50	0	3.10	0.00	6.17	0.00
10yr3d	NSLRWCD C37	BASE	88.27	10.54	18.50	0	3.09	0.00	6.24	0.00
10yr3d	NSLRWCD C37	BASE	88.52	10.53	18.50	0	3.09	0.00	6.30	0.00
10yr3d	NSLRWCD C37	BASE	88.77	10.53	18.50	0	3.08	0.00	6.36	0.00
10yr3d	NSLRWCD C37	BASE	89.02	10.53	18.50	0	3.08	0.00	6.43	0.00
10yr3d	NSLRWCD C37	BASE	89.27	10.52	18.50	0	3.07	0.00	6.49	0.00
10yr3d	NSLRWCD C37	BASE	89.52	10.52	18.50	0	3.07	0.00	6.56	0.00
10yr3d	NSLRWCD C37	BASE	89.77	10.52	18.50	0	3.06	0.00	6.62	0.00

Max Discharge Volume in 24-hrs = 6.49 acft
Less than Allowable 2" over 45 ac = 7.65 acft

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	90.02	10.52	18.50	0	3.06	0.00	6.68	0.00
10yr3d	NSLRWCD C37	BASE	90.27	10.51	18.50	0	3.05	0.00	6.74	0.00
10yr3d	NSLRWCD C37	BASE	90.52	10.51	18.50	0	3.05	0.00	6.81	0.00
10yr3d	NSLRWCD C37	BASE	90.77	10.51	18.50	0	3.04	0.00	6.87	0.00
10yr3d	NSLRWCD C37	BASE	91.02	10.51	18.50	0	3.04	0.00	6.93	0.00
10yr3d	NSLRWCD C37	BASE	91.27	10.50	18.50	0	3.03	0.00	7.00	0.00
10yr3d	NSLRWCD C37	BASE	91.52	10.50	18.50	0	3.02	0.00	7.06	0.00
10yr3d	NSLRWCD C37	BASE	91.77	10.50	18.50	0	3.02	0.00	7.12	0.00
10yr3d	NSLRWCD C37	BASE	92.02	10.50	18.50	0	3.01	0.00	7.18	0.00
10yr3d	NSLRWCD C37	BASE	92.27	10.49	18.50	0	3.01	0.00	7.25	0.00
10yr3d	NSLRWCD C37	BASE	92.52	10.49	18.50	0	3.00	0.00	7.31	0.00
10yr3d	NSLRWCD C37	BASE	92.77	10.49	18.50	0	3.00	0.00	7.37	0.00
10yr3d	NSLRWCD C37	BASE	93.02	10.49	18.50	0	2.99	0.00	7.43	0.00
10yr3d	NSLRWCD C37	BASE	93.27	10.48	18.50	0	2.98	0.00	7.49	0.00
10yr3d	NSLRWCD C37	BASE	93.52	10.48	18.50	0	2.98	0.00	7.55	0.00
10yr3d	NSLRWCD C37	BASE	93.77	10.48	18.50	0	2.97	0.00	7.62	0.00
10yr3d	NSLRWCD C37	BASE	94.02	10.48	18.50	0	2.97	0.00	7.68	0.00
10yr3d	NSLRWCD C37	BASE	94.27	10.47	18.50	0	2.96	0.00	7.74	0.00
10yr3d	NSLRWCD C37	BASE	94.52	10.47	18.50	0	2.95	0.00	7.80	0.00
10yr3d	NSLRWCD C37	BASE	94.77	10.47	18.50	0	2.95	0.00	7.86	0.00
10yr3d	NSLRWCD C37	BASE	95.02	10.47	18.50	0	2.94	0.00	7.92	0.00
10yr3d	NSLRWCD C37	BASE	95.27	10.46	18.50	0	2.94	0.00	7.98	0.00
10yr3d	NSLRWCD C37	BASE	95.52	10.46	18.50	0	2.93	0.00	8.04	0.00
10yr3d	NSLRWCD C37	BASE	95.77	10.46	18.50	0	2.92	0.00	8.10	0.00
10yr3d	NSLRWCD C37	BASE	96.02	10.46	18.50	0	2.92	0.00	8.16	0.00
10yr3d	NSLRWCD C37	BASE	96.27	10.45	18.50	0	2.91	0.00	8.22	0.00
10yr3d	NSLRWCD C37	BASE	96.52	10.45	18.50	0	2.91	0.00	8.28	0.00
10yr3d	NSLRWCD C37	BASE	96.77	10.45	18.50	0	2.90	0.00	8.34	0.00
10yr3d	NSLRWCD C37	BASE	97.02	10.45	18.50	0	2.89	0.00	8.40	0.00
10yr3d	NSLRWCD C37	BASE	97.27	10.44	18.50	0	2.89	0.00	8.46	0.00
10yr3d	NSLRWCD C37	BASE	97.52	10.44	18.50	0	2.88	0.00	8.52	0.00
10yr3d	NSLRWCD C37	BASE	97.77	10.44	18.50	0	2.87	0.00	8.58	0.00
10yr3d	NSLRWCD C37	BASE	98.02	10.44	18.50	0	2.87	0.00	8.64	0.00
10yr3d	NSLRWCD C37	BASE	98.27	10.43	18.50	0	2.86	0.00	8.70	0.00
10yr3d	NSLRWCD C37	BASE	98.52	10.43	18.50	0	2.85	0.00	8.76	0.00
10yr3d	NSLRWCD C37	BASE	98.77	10.43	18.50	0	2.85	0.00	8.82	0.00
10yr3d	NSLRWCD C37	BASE	99.02	10.43	18.50	0	2.84	0.00	8.88	0.00
10yr3d	NSLRWCD C37	BASE	99.27	10.42	18.50	0	2.83	0.00	8.94	0.00
10yr3d	NSLRWCD C37	BASE	99.52	10.42	18.50	0	2.83	0.00	9.00	0.00
10yr3d	NSLRWCD C37	BASE	99.77	10.42	18.50	0	2.82	0.00	9.05	0.00
10yr3d	NSLRWCD C37	BASE	100.02	10.42	18.50	0	2.81	0.00	9.11	0.00
10yr3d	NSLRWCD C37	BASE	100.27	10.41	18.50	0	2.81	0.00	9.17	0.00
10yr3d	NSLRWCD C37	BASE	100.52	10.41	18.50	0	2.80	0.00	9.23	0.00
10yr3d	NSLRWCD C37	BASE	100.77	10.41	18.50	0	2.79	0.00	9.29	0.00
10yr3d	NSLRWCD C37	BASE	101.02	10.41	18.50	0	2.78	0.00	9.34	0.00
10yr3d	NSLRWCD C37	BASE	101.27	10.40	18.50	0	2.78	0.00	9.40	0.00
10yr3d	NSLRWCD C37	BASE	101.52	10.40	18.50	0	2.77	0.00	9.46	0.00
10yr3d	NSLRWCD C37	BASE	101.77	10.40	18.50	0	2.76	0.00	9.51	0.00
10yr3d	NSLRWCD C37	BASE	102.02	10.40	18.50	0	2.76	0.00	9.57	0.00
10yr3d	NSLRWCD C37	BASE	102.27	10.39	18.50	0	2.75	0.00	9.63	0.00
10yr3d	NSLRWCD C37	BASE	102.52	10.39	18.50	0	2.74	0.00	9.69	0.00
10yr3d	NSLRWCD C37	BASE	102.77	10.39	18.50	0	2.73	0.00	9.74	0.00
10yr3d	NSLRWCD C37	BASE	103.02	10.39	18.50	0	2.73	0.00	9.80	0.00
10yr3d	NSLRWCD C37	BASE	103.27	10.38	18.50	0	2.72	0.00	9.85	0.00
10yr3d	NSLRWCD C37	BASE	103.52	10.38	18.50	0	2.71	0.00	9.91	0.00
10yr3d	NSLRWCD C37	BASE	103.77	10.38	18.50	0	2.70	0.00	9.97	0.00
10yr3d	NSLRWCD C37	BASE	104.02	10.38	18.50	0	2.70	0.00	10.02	0.00
10yr3d	NSLRWCD C37	BASE	104.27	10.37	18.50	0	2.69	0.00	10.08	0.00
10yr3d	NSLRWCD C37	BASE	104.52	10.37	18.50	0	2.68	0.00	10.13	0.00
10yr3d	NSLRWCD C37	BASE	104.77	10.37	18.50	0	2.67	0.00	10.19	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	105.02	10.37	18.50	0	2.67	0.00	10.24	0.00
10yr3d	NSLRWCD C37	BASE	105.27	10.36	18.50	0	2.66	0.00	10.30	0.00
10yr3d	NSLRWCD C37	BASE	105.52	10.36	18.50	0	2.65	0.00	10.35	0.00
10yr3d	NSLRWCD C37	BASE	105.77	10.36	18.50	0	2.64	0.00	10.41	0.00
10yr3d	NSLRWCD C37	BASE	106.02	10.36	18.50	0	2.64	0.00	10.46	0.00
10yr3d	NSLRWCD C37	BASE	106.27	10.35	18.50	0	2.63	0.00	10.52	0.00
10yr3d	NSLRWCD C37	BASE	106.52	10.35	18.50	0	2.62	0.00	10.57	0.00
10yr3d	NSLRWCD C37	BASE	106.77	10.35	18.50	0	2.61	0.00	10.63	0.00
10yr3d	NSLRWCD C37	BASE	107.02	10.34	18.50	0	2.61	0.00	10.68	0.00
10yr3d	NSLRWCD C37	BASE	107.27	10.34	18.50	0	2.60	0.00	10.73	0.00
10yr3d	NSLRWCD C37	BASE	107.52	10.34	18.50	0	2.59	0.00	10.79	0.00
10yr3d	NSLRWCD C37	BASE	107.77	10.34	18.50	0	2.58	0.00	10.84	0.00
10yr3d	NSLRWCD C37	BASE	108.02	10.33	18.50	0	2.57	0.00	10.89	0.00
10yr3d	NSLRWCD C37	BASE	108.27	10.33	18.50	0	2.57	0.00	10.95	0.00
10yr3d	NSLRWCD C37	BASE	108.52	10.33	18.50	0	2.56	0.00	11.00	0.00
10yr3d	NSLRWCD C37	BASE	108.77	10.33	18.50	0	2.55	0.00	11.05	0.00
10yr3d	NSLRWCD C37	BASE	109.02	10.32	18.50	0	2.54	0.00	11.11	0.00
10yr3d	NSLRWCD C37	BASE	109.27	10.32	18.50	0	2.54	0.00	11.16	0.00
10yr3d	NSLRWCD C37	BASE	109.52	10.32	18.50	0	2.53	0.00	11.21	0.00
10yr3d	NSLRWCD C37	BASE	109.77	10.32	18.50	0	2.52	0.00	11.26	0.00
10yr3d	NSLRWCD C37	BASE	110.02	10.31	18.50	0	2.51	0.00	11.31	0.00
10yr3d	NSLRWCD C37	BASE	110.27	10.31	18.50	0	2.50	0.00	11.37	0.00
10yr3d	NSLRWCD C37	BASE	110.52	10.31	18.50	0	2.50	0.00	11.42	0.00
10yr3d	NSLRWCD C37	BASE	110.77	10.31	18.50	0	2.49	0.00	11.47	0.00
10yr3d	NSLRWCD C37	BASE	111.02	10.30	18.50	0	2.48	0.00	11.52	0.00
10yr3d	NSLRWCD C37	BASE	111.27	10.30	18.50	0	2.47	0.00	11.57	0.00
10yr3d	NSLRWCD C37	BASE	111.52	10.30	18.50	0	2.46	0.00	11.62	0.00
10yr3d	NSLRWCD C37	BASE	111.77	10.30	18.50	0	2.45	0.00	11.67	0.00
10yr3d	NSLRWCD C37	BASE	112.02	10.29	18.50	0	2.45	0.00	11.72	0.00
10yr3d	NSLRWCD C37	BASE	112.27	10.29	18.50	0	2.44	0.00	11.77	0.00
10yr3d	NSLRWCD C37	BASE	112.52	10.29	18.50	0	2.43	0.00	11.82	0.00
10yr3d	NSLRWCD C37	BASE	112.77	10.29	18.50	0	2.42	0.00	11.87	0.00
10yr3d	NSLRWCD C37	BASE	113.02	10.28	18.50	0	2.41	0.00	11.92	0.00
10yr3d	NSLRWCD C37	BASE	113.27	10.28	18.50	0	2.41	0.00	11.97	0.00
10yr3d	NSLRWCD C37	BASE	113.52	10.28	18.50	0	2.40	0.00	12.02	0.00
10yr3d	NSLRWCD C37	BASE	113.77	10.28	18.50	0	2.39	0.00	12.07	0.00
10yr3d	NSLRWCD C37	BASE	114.02	10.27	18.50	0	2.38	0.00	12.12	0.00
10yr3d	NSLRWCD C37	BASE	114.27	10.27	18.50	0	2.37	0.00	12.17	0.00
10yr3d	NSLRWCD C37	BASE	114.52	10.27	18.50	0	2.36	0.00	12.22	0.00
10yr3d	NSLRWCD C37	BASE	114.77	10.27	18.50	0	2.35	0.00	12.27	0.00
10yr3d	NSLRWCD C37	BASE	115.02	10.26	18.50	0	2.35	0.00	12.32	0.00
10yr3d	NSLRWCD C37	BASE	115.27	10.26	18.50	0	2.34	0.00	12.37	0.00
10yr3d	NSLRWCD C37	BASE	115.52	10.26	18.50	0	2.33	0.00	12.41	0.00
10yr3d	NSLRWCD C37	BASE	115.77	10.26	18.50	0	2.32	0.00	12.46	0.00
10yr3d	NSLRWCD C37	BASE	116.02	10.25	18.50	0	2.31	0.00	12.51	0.00
10yr3d	NSLRWCD C37	BASE	116.27	10.25	18.50	0	2.30	0.00	12.56	0.00
10yr3d	NSLRWCD C37	BASE	116.52	10.25	18.50	0	2.29	0.00	12.61	0.00
10yr3d	NSLRWCD C37	BASE	116.77	10.25	18.50	0	2.28	0.00	12.65	0.00
10yr3d	NSLRWCD C37	BASE	117.02	10.24	18.50	0	2.28	0.00	12.70	0.00
10yr3d	NSLRWCD C37	BASE	117.27	10.24	18.50	0	2.27	0.00	12.75	0.00
10yr3d	NSLRWCD C37	BASE	117.52	10.24	18.50	0	2.26	0.00	12.79	0.00
10yr3d	NSLRWCD C37	BASE	117.77	10.24	18.50	0	2.25	0.00	12.84	0.00
10yr3d	NSLRWCD C37	BASE	118.02	10.23	18.50	0	2.24	0.00	12.89	0.00
10yr3d	NSLRWCD C37	BASE	118.27	10.23	18.50	0	2.23	0.00	12.93	0.00
10yr3d	NSLRWCD C37	BASE	118.52	10.23	18.50	0	2.22	0.00	12.98	0.00
10yr3d	NSLRWCD C37	BASE	118.77	10.23	18.50	0	2.21	0.00	13.02	0.00
10yr3d	NSLRWCD C37	BASE	119.02	10.22	18.50	0	2.20	0.00	13.07	0.00
10yr3d	NSLRWCD C37	BASE	119.27	10.22	18.50	0	2.19	0.00	13.12	0.00
10yr3d	NSLRWCD C37	BASE	119.52	10.22	18.50	0	2.19	0.00	13.16	0.00
10yr3d	NSLRWCD C37	BASE	119.77	10.22	18.50	0	2.18	0.00	13.21	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	120.02	10.21	18.50	0	2.17	0.00	13.25	0.00
10yr3d	NSLRWCD C37	BASE	120.27	10.21	18.50	0	2.16	0.00	13.30	0.00
10yr3d	NSLRWCD C37	BASE	120.52	10.21	18.50	0	2.15	0.00	13.34	0.00
10yr3d	NSLRWCD C37	BASE	120.77	10.21	18.50	0	2.14	0.00	13.38	0.00
10yr3d	NSLRWCD C37	BASE	121.02	10.20	18.50	0	2.13	0.00	13.43	0.00
10yr3d	NSLRWCD C37	BASE	121.27	10.20	18.50	0	2.12	0.00	13.47	0.00
10yr3d	NSLRWCD C37	BASE	121.52	10.20	18.50	0	2.11	0.00	13.52	0.00
10yr3d	NSLRWCD C37	BASE	121.77	10.20	18.50	0	2.10	0.00	13.56	0.00
10yr3d	NSLRWCD C37	BASE	122.02	10.19	18.50	0	2.09	0.00	13.60	0.00
10yr3d	NSLRWCD C37	BASE	122.27	10.19	18.50	0	2.08	0.00	13.65	0.00
10yr3d	NSLRWCD C37	BASE	122.52	10.19	18.50	0	2.07	0.00	13.69	0.00
10yr3d	NSLRWCD C37	BASE	122.77	10.19	18.50	0	2.06	0.00	13.73	0.00
10yr3d	NSLRWCD C37	BASE	123.02	10.18	18.50	0	2.05	0.00	13.77	0.00
10yr3d	NSLRWCD C37	BASE	123.27	10.18	18.50	0	2.04	0.00	13.82	0.00
10yr3d	NSLRWCD C37	BASE	123.52	10.18	18.50	0	2.03	0.00	13.86	0.00
10yr3d	NSLRWCD C37	BASE	123.77	10.18	18.50	0	2.02	0.00	13.90	0.00
10yr3d	NSLRWCD C37	BASE	124.02	10.17	18.50	0	2.01	0.00	13.94	0.00
10yr3d	NSLRWCD C37	BASE	124.27	10.17	18.50	0	2.00	0.00	13.98	0.00
10yr3d	NSLRWCD C37	BASE	124.52	10.17	18.50	0	1.99	0.00	14.03	0.00
10yr3d	NSLRWCD C37	BASE	124.77	10.17	18.50	0	1.98	0.00	14.07	0.00
10yr3d	NSLRWCD C37	BASE	125.02	10.16	18.50	0	1.97	0.00	14.11	0.00
10yr3d	NSLRWCD C37	BASE	125.27	10.16	18.50	0	1.96	0.00	14.15	0.00
10yr3d	NSLRWCD C37	BASE	125.52	10.16	18.50	0	1.95	0.00	14.19	0.00
10yr3d	NSLRWCD C37	BASE	125.77	10.15	18.50	0	1.94	0.00	14.23	0.00
10yr3d	NSLRWCD C37	BASE	126.02	10.15	18.50	0	1.93	0.00	14.27	0.00
10yr3d	NSLRWCD C37	BASE	126.27	10.15	18.50	0	1.92	0.00	14.31	0.00
10yr3d	NSLRWCD C37	BASE	126.52	10.15	18.50	0	1.91	0.00	14.35	0.00
10yr3d	NSLRWCD C37	BASE	126.77	10.14	18.50	0	1.90	0.00	14.39	0.00
10yr3d	NSLRWCD C37	BASE	127.02	10.14	18.50	0	1.89	0.00	14.43	0.00
10yr3d	NSLRWCD C37	BASE	127.27	10.14	18.50	0	1.88	0.00	14.47	0.00
10yr3d	NSLRWCD C37	BASE	127.52	10.14	18.50	0	1.87	0.00	14.50	0.00
10yr3d	NSLRWCD C37	BASE	127.77	10.13	18.50	0	1.86	0.00	14.54	0.00
10yr3d	NSLRWCD C37	BASE	128.02	10.13	18.50	0	1.85	0.00	14.58	0.00
10yr3d	NSLRWCD C37	BASE	128.27	10.13	18.50	0	1.84	0.00	14.62	0.00
10yr3d	NSLRWCD C37	BASE	128.52	10.13	18.50	0	1.83	0.00	14.66	0.00
10yr3d	NSLRWCD C37	BASE	128.77	10.12	18.50	0	1.81	0.00	14.69	0.00
10yr3d	NSLRWCD C37	BASE	129.02	10.12	18.50	0	1.80	0.00	14.73	0.00
10yr3d	NSLRWCD C37	BASE	129.27	10.12	18.50	0	1.79	0.00	14.77	0.00
10yr3d	NSLRWCD C37	BASE	129.52	10.12	18.50	0	1.78	0.00	14.81	0.00
10yr3d	NSLRWCD C37	BASE	129.77	10.11	18.50	0	1.77	0.00	14.84	0.00
10yr3d	NSLRWCD C37	BASE	130.02	10.11	18.50	0	1.76	0.00	14.88	0.00
10yr3d	NSLRWCD C37	BASE	130.27	10.11	18.50	0	1.75	0.00	14.92	0.00
10yr3d	NSLRWCD C37	BASE	130.52	10.11	18.50	0	1.74	0.00	14.95	0.00
10yr3d	NSLRWCD C37	BASE	130.77	10.10	18.50	0	1.73	0.00	14.99	0.00
10yr3d	NSLRWCD C37	BASE	131.02	10.10	18.50	0	1.72	0.00	15.02	0.00
10yr3d	NSLRWCD C37	BASE	131.27	10.10	18.50	0	1.71	0.00	15.06	0.00
10yr3d	NSLRWCD C37	BASE	131.52	10.10	18.50	0	1.69	0.00	15.09	0.00
10yr3d	NSLRWCD C37	BASE	131.77	10.09	18.50	0	1.68	0.00	15.13	0.00
10yr3d	NSLRWCD C37	BASE	132.02	10.09	18.50	0	1.67	0.00	15.16	0.00
10yr3d	NSLRWCD C37	BASE	132.27	10.09	18.50	0	1.66	0.00	15.20	0.00
10yr3d	NSLRWCD C37	BASE	132.52	10.09	18.50	0	1.65	0.00	15.23	0.00
10yr3d	NSLRWCD C37	BASE	132.77	10.08	18.50	0	1.64	0.00	15.27	0.00
10yr3d	NSLRWCD C37	BASE	133.02	10.08	18.50	0	1.63	0.00	15.30	0.00
10yr3d	NSLRWCD C37	BASE	133.27	10.08	18.50	0	1.62	0.00	15.33	0.00
10yr3d	NSLRWCD C37	BASE	133.52	10.08	18.50	0	1.61	0.00	15.37	0.00
10yr3d	NSLRWCD C37	BASE	133.77	10.07	18.50	0	1.59	0.00	15.40	0.00
10yr3d	NSLRWCD C37	BASE	134.02	10.07	18.50	0	1.58	0.00	15.43	0.00
10yr3d	NSLRWCD C37	BASE	134.27	10.07	18.50	0	1.57	0.00	15.46	0.00
10yr3d	NSLRWCD C37	BASE	134.52	10.07	18.50	0	1.56	0.00	15.50	0.00
10yr3d	NSLRWCD C37	BASE	134.77	10.06	18.50	0	1.55	0.00	15.53	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	135.02	10.06	18.50	0	1.53	0.00	15.56	0.00
10yr3d	NSLRWCD C37	BASE	135.27	10.06	18.50	0	1.52	0.00	15.59	0.00
10yr3d	NSLRWCD C37	BASE	135.52	10.06	18.50	0	1.50	0.00	15.62	0.00
10yr3d	NSLRWCD C37	BASE	135.77	10.05	18.50	0	1.49	0.00	15.65	0.00
10yr3d	NSLRWCD C37	BASE	136.02	10.05	18.50	0	1.47	0.00	15.68	0.00
10yr3d	NSLRWCD C37	BASE	136.27	10.05	18.50	0	1.46	0.00	15.72	0.00
10yr3d	NSLRWCD C37	BASE	136.52	10.05	18.50	0	1.44	0.00	15.75	0.00
10yr3d	NSLRWCD C37	BASE	136.77	10.04	18.50	0	1.43	0.00	15.77	0.00
10yr3d	NSLRWCD C37	BASE	137.02	10.04	18.50	0	1.41	0.00	15.80	0.00
10yr3d	NSLRWCD C37	BASE	137.27	10.04	18.50	0	1.40	0.00	15.83	0.00
10yr3d	NSLRWCD C37	BASE	137.52	10.04	18.50	0	1.38	0.00	15.86	0.00
10yr3d	NSLRWCD C37	BASE	137.77	10.03	18.50	0	1.37	0.00	15.89	0.00
10yr3d	NSLRWCD C37	BASE	138.02	10.03	18.50	0	1.36	0.00	15.92	0.00
10yr3d	NSLRWCD C37	BASE	138.27	10.03	18.50	0	1.34	0.00	15.95	0.00
10yr3d	NSLRWCD C37	BASE	138.52	10.03	18.50	0	1.33	0.00	15.97	0.00
10yr3d	NSLRWCD C37	BASE	138.77	10.02	18.50	0	1.31	0.00	16.00	0.00
10yr3d	NSLRWCD C37	BASE	139.02	10.02	18.50	0	1.30	0.00	16.03	0.00
10yr3d	NSLRWCD C37	BASE	139.27	10.02	18.50	0	1.28	0.00	16.05	0.00
10yr3d	NSLRWCD C37	BASE	139.52	10.02	18.50	0	1.27	0.00	16.08	0.00
10yr3d	NSLRWCD C37	BASE	139.77	10.01	18.50	0	1.25	0.00	16.11	0.00
10yr3d	NSLRWCD C37	BASE	140.02	10.01	18.50	0	1.24	0.00	16.13	0.00
10yr3d	NSLRWCD C37	BASE	140.27	10.01	18.50	0	1.22	0.00	16.16	0.00
10yr3d	NSLRWCD C37	BASE	140.52	10.01	18.50	0	1.21	0.00	16.18	0.00
10yr3d	NSLRWCD C37	BASE	140.77	10.00	18.50	0	1.20	0.00	16.21	0.00
10yr3d	NSLRWCD C37	BASE	141.02	10.00	18.50	0	1.18	0.00	16.23	0.00
10yr3d	NSLRWCD C37	BASE	141.27	10.00	18.50	0	1.17	0.00	16.26	0.00
10yr3d	NSLRWCD C37	BASE	141.52	10.00	18.50	0	1.16	0.00	16.28	0.00
10yr3d	NSLRWCD C37	BASE	141.77	9.99	18.50	0	1.14	0.00	16.30	0.00
10yr3d	NSLRWCD C37	BASE	142.02	9.99	18.50	0	1.13	0.00	16.33	0.00
10yr3d	NSLRWCD C37	BASE	142.27	9.99	18.50	0	1.12	0.00	16.35	0.00
10yr3d	NSLRWCD C37	BASE	142.52	9.99	18.50	0	1.11	0.00	16.37	0.00
10yr3d	NSLRWCD C37	BASE	142.77	9.98	18.50	0	1.09	0.00	16.40	0.00
10yr3d	NSLRWCD C37	BASE	143.02	9.98	18.50	0	1.08	0.00	16.42	0.00
10yr3d	NSLRWCD C37	BASE	143.27	9.98	18.50	0	1.07	0.00	16.44	0.00
10yr3d	NSLRWCD C37	BASE	143.52	9.97	18.50	0	1.06	0.00	16.46	0.00
10yr3d	NSLRWCD C37	BASE	143.77	9.97	18.50	0	1.05	0.00	16.49	0.00
10yr3d	NSLRWCD C37	BASE	144.02	9.97	18.50	0	1.04	0.00	16.51	0.00
10yr3d	NSLRWCD C37	BASE	144.27	9.97	18.50	0	1.03	0.00	16.53	0.00
10yr3d	NSLRWCD C37	BASE	144.52	9.96	18.50	0	1.02	0.00	16.55	0.00
10yr3d	NSLRWCD C37	BASE	144.77	9.96	18.50	0	1.01	0.00	16.57	0.00
10yr3d	NSLRWCD C37	BASE	145.02	9.96	18.50	0	1.00	0.00	16.59	0.00
10yr3d	NSLRWCD C37	BASE	145.27	9.96	18.50	0	0.99	0.00	16.61	0.00
10yr3d	NSLRWCD C37	BASE	145.52	9.95	18.50	0	0.98	0.00	16.63	0.00
10yr3d	NSLRWCD C37	BASE	145.77	9.95	18.50	0	0.97	0.00	16.65	0.00
10yr3d	NSLRWCD C37	BASE	146.02	9.95	18.50	0	0.96	0.00	16.67	0.00
10yr3d	NSLRWCD C37	BASE	146.27	9.95	18.50	0	0.95	0.00	16.69	0.00
10yr3d	NSLRWCD C37	BASE	146.52	9.94	18.50	0	0.94	0.00	16.71	0.00
10yr3d	NSLRWCD C37	BASE	146.77	9.94	18.50	0	0.93	0.00	16.73	0.00
10yr3d	NSLRWCD C37	BASE	147.02	9.94	18.50	0	0.92	0.00	16.75	0.00
10yr3d	NSLRWCD C37	BASE	147.27	9.94	18.50	0	0.91	0.00	16.77	0.00
10yr3d	NSLRWCD C37	BASE	147.52	9.93	18.50	0	0.90	0.00	16.79	0.00
10yr3d	NSLRWCD C37	BASE	147.77	9.93	18.50	0	0.89	0.00	16.81	0.00
10yr3d	NSLRWCD C37	BASE	148.02	9.93	18.50	0	0.89	0.00	16.82	0.00
10yr3d	NSLRWCD C37	BASE	148.27	9.93	18.50	0	0.88	0.00	16.84	0.00
10yr3d	NSLRWCD C37	BASE	148.52	9.92	18.50	0	0.87	0.00	16.86	0.00
10yr3d	NSLRWCD C37	BASE	148.77	9.92	18.50	0	0.86	0.00	16.88	0.00
10yr3d	NSLRWCD C37	BASE	149.02	9.92	18.50	0	0.85	0.00	16.90	0.00
10yr3d	NSLRWCD C37	BASE	149.27	9.92	18.50	0	0.85	0.00	16.91	0.00
10yr3d	NSLRWCD C37	BASE	149.52	9.91	18.50	0	0.84	0.00	16.93	0.00
10yr3d	NSLRWCD C37	BASE	149.77	9.91	18.50	0	0.83	0.00	16.95	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	150.02	9.91	18.50	0	0.82	0.00	16.97	0.00
10yr3d	NSLRWCD C37	BASE	150.27	9.91	18.50	0	0.82	0.00	16.98	0.00
10yr3d	NSLRWCD C37	BASE	150.52	9.90	18.50	0	0.81	0.00	17.00	0.00
10yr3d	NSLRWCD C37	BASE	150.77	9.90	18.50	0	0.80	0.00	17.02	0.00
10yr3d	NSLRWCD C37	BASE	151.02	9.90	18.50	0	0.79	0.00	17.03	0.00
10yr3d	NSLRWCD C37	BASE	151.27	9.90	18.50	0	0.79	0.00	17.05	0.00
10yr3d	NSLRWCD C37	BASE	151.52	9.89	18.50	0	0.78	0.00	17.06	0.00
10yr3d	NSLRWCD C37	BASE	151.77	9.89	18.50	0	0.77	0.00	17.08	0.00
10yr3d	NSLRWCD C37	BASE	152.02	9.89	18.50	0	0.77	0.00	17.10	0.00
10yr3d	NSLRWCD C37	BASE	152.27	9.89	18.50	0	0.76	0.00	17.11	0.00
10yr3d	NSLRWCD C37	BASE	152.52	9.88	18.50	0	0.75	0.00	17.13	0.00
10yr3d	NSLRWCD C37	BASE	152.77	9.88	18.50	0	0.75	0.00	17.14	0.00
10yr3d	NSLRWCD C37	BASE	153.02	9.88	18.50	0	0.74	0.00	17.16	0.00
10yr3d	NSLRWCD C37	BASE	153.27	9.88	18.50	0	0.74	0.00	17.17	0.00
10yr3d	NSLRWCD C37	BASE	153.52	9.87	18.50	0	0.73	0.00	17.19	0.00
10yr3d	NSLRWCD C37	BASE	153.77	9.87	18.50	0	0.72	0.00	17.20	0.00
10yr3d	NSLRWCD C37	BASE	154.02	9.87	18.50	0	0.72	0.00	17.22	0.00
10yr3d	NSLRWCD C37	BASE	154.27	9.87	18.50	0	0.71	0.00	17.23	0.00
10yr3d	NSLRWCD C37	BASE	154.52	9.86	18.50	0	0.71	0.00	17.25	0.00
10yr3d	NSLRWCD C37	BASE	154.77	9.86	18.50	0	0.70	0.00	17.26	0.00
10yr3d	NSLRWCD C37	BASE	155.02	9.86	18.50	0	0.70	0.00	17.28	0.00
10yr3d	NSLRWCD C37	BASE	155.27	9.86	18.50	0	0.69	0.00	17.29	0.00
10yr3d	NSLRWCD C37	BASE	155.52	9.85	18.50	0	0.69	0.00	17.31	0.00
10yr3d	NSLRWCD C37	BASE	155.77	9.85	18.50	0	0.68	0.00	17.32	0.00
10yr3d	NSLRWCD C37	BASE	156.02	9.85	18.50	0	0.68	0.00	17.33	0.00
10yr3d	NSLRWCD C37	BASE	156.27	9.85	18.50	0	0.67	0.00	17.35	0.00
10yr3d	NSLRWCD C37	BASE	156.52	9.84	18.50	0	0.67	0.00	17.36	0.00
10yr3d	NSLRWCD C37	BASE	156.77	9.84	18.50	0	0.66	0.00	17.38	0.00
10yr3d	NSLRWCD C37	BASE	157.02	9.84	18.50	0	0.66	0.00	17.39	0.00
10yr3d	NSLRWCD C37	BASE	157.27	9.84	18.50	0	0.65	0.00	17.40	0.00
10yr3d	NSLRWCD C37	BASE	157.52	9.83	18.50	0	0.65	0.00	17.42	0.00
10yr3d	NSLRWCD C37	BASE	157.77	9.83	18.50	0	0.64	0.00	17.43	0.00
10yr3d	NSLRWCD C37	BASE	158.02	9.83	18.50	0	0.64	0.00	17.44	0.00
10yr3d	NSLRWCD C37	BASE	158.27	9.83	18.50	0	0.63	0.00	17.46	0.00
10yr3d	NSLRWCD C37	BASE	158.52	9.82	18.50	0	0.63	0.00	17.47	0.00
10yr3d	NSLRWCD C37	BASE	158.77	9.82	18.50	0	0.63	0.00	17.48	0.00
10yr3d	NSLRWCD C37	BASE	159.02	9.82	18.50	0	0.62	0.00	17.50	0.00
10yr3d	NSLRWCD C37	BASE	159.27	9.82	18.50	0	0.62	0.00	17.51	0.00
10yr3d	NSLRWCD C37	BASE	159.52	9.81	18.50	0	0.61	0.00	17.52	0.00
10yr3d	NSLRWCD C37	BASE	159.77	9.81	18.50	0	0.61	0.00	17.53	0.00
10yr3d	NSLRWCD C37	BASE	160.02	9.81	18.50	0	0.61	0.00	17.55	0.00
10yr3d	NSLRWCD C37	BASE	160.27	9.81	18.50	0	0.60	0.00	17.56	0.00
10yr3d	NSLRWCD C37	BASE	160.52	9.80	18.50	0	0.60	0.00	17.57	0.00
10yr3d	NSLRWCD C37	BASE	160.77	9.80	18.50	0	0.59	0.00	17.58	0.00
10yr3d	NSLRWCD C37	BASE	161.02	9.80	18.50	0	0.59	0.00	17.60	0.00
10yr3d	NSLRWCD C37	BASE	161.27	9.79	18.50	0	0.59	0.00	17.61	0.00
10yr3d	NSLRWCD C37	BASE	161.52	9.79	18.50	0	0.58	0.00	17.62	0.00
10yr3d	NSLRWCD C37	BASE	161.77	9.79	18.50	0	0.58	0.00	17.63	0.00
10yr3d	NSLRWCD C37	BASE	162.02	9.79	18.50	0	0.58	0.00	17.64	0.00
10yr3d	NSLRWCD C37	BASE	162.27	9.78	18.50	0	0.57	0.00	17.66	0.00
10yr3d	NSLRWCD C37	BASE	162.52	9.78	18.50	0	0.57	0.00	17.67	0.00
10yr3d	NSLRWCD C37	BASE	162.77	9.78	18.50	0	0.57	0.00	17.68	0.00
10yr3d	NSLRWCD C37	BASE	163.02	9.78	18.50	0	0.56	0.00	17.69	0.00
10yr3d	NSLRWCD C37	BASE	163.27	9.77	18.50	0	0.56	0.00	17.70	0.00
10yr3d	NSLRWCD C37	BASE	163.52	9.77	18.50	0	0.56	0.00	17.71	0.00
10yr3d	NSLRWCD C37	BASE	163.77	9.77	18.50	0	0.56	0.00	17.73	0.00
10yr3d	NSLRWCD C37	BASE	164.02	9.77	18.50	0	0.55	0.00	17.74	0.00
10yr3d	NSLRWCD C37	BASE	164.27	9.76	18.50	0	0.55	0.00	17.75	0.00
10yr3d	NSLRWCD C37	BASE	164.52	9.76	18.50	0	0.55	0.00	17.76	0.00
10yr3d	NSLRWCD C37	BASE	164.77	9.76	18.50	0	0.54	0.00	17.77	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	165.02	9.76	18.50	0	0.54	0.00	17.78	0.00
10yr3d	NSLRWCD C37	BASE	165.27	9.75	18.50	0	0.54	0.00	17.79	0.00
10yr3d	NSLRWCD C37	BASE	165.52	9.75	18.50	0	0.54	0.00	17.80	0.00
10yr3d	NSLRWCD C37	BASE	165.77	9.75	18.50	0	0.53	0.00	17.82	0.00
10yr3d	NSLRWCD C37	BASE	166.02	9.75	18.50	0	0.53	0.00	17.83	0.00
10yr3d	NSLRWCD C37	BASE	166.27	9.74	18.50	0	0.53	0.00	17.84	0.00
10yr3d	NSLRWCD C37	BASE	166.52	9.74	18.50	0	0.53	0.00	17.85	0.00
10yr3d	NSLRWCD C37	BASE	166.77	9.74	18.50	0	0.53	0.00	17.86	0.00
10yr3d	NSLRWCD C37	BASE	167.02	9.74	18.50	0	0.52	0.00	17.87	0.00
10yr3d	NSLRWCD C37	BASE	167.27	9.73	18.50	0	0.52	0.00	17.88	0.00
10yr3d	NSLRWCD C37	BASE	167.52	9.73	18.50	0	0.52	0.00	17.89	0.00
10yr3d	NSLRWCD C37	BASE	167.77	9.73	18.50	0	0.52	0.00	17.90	0.00
10yr3d	NSLRWCD C37	BASE	168.02	9.73	18.50	0	0.52	0.00	17.91	0.00
10yr3d	NSLRWCD C37	BASE	168.27	9.72	18.50	0	0.51	0.00	17.92	0.00
10yr3d	NSLRWCD C37	BASE	168.52	9.72	18.50	0	0.51	0.00	17.93	0.00
10yr3d	NSLRWCD C37	BASE	168.77	9.72	18.50	0	0.51	0.00	17.95	0.00
10yr3d	NSLRWCD C37	BASE	169.02	9.72	18.50	0	0.51	0.00	17.96	0.00
10yr3d	NSLRWCD C37	BASE	169.27	9.71	18.50	0	0.51	0.00	17.97	0.00
10yr3d	NSLRWCD C37	BASE	169.52	9.71	18.50	0	0.51	0.00	17.98	0.00
10yr3d	NSLRWCD C37	BASE	169.77	9.71	18.50	0	0.51	0.00	17.99	0.00
10yr3d	NSLRWCD C37	BASE	170.02	9.71	18.50	0	0.50	0.00	18.00	0.00
10yr3d	NSLRWCD C37	BASE	170.27	9.70	18.50	0	0.50	0.00	18.01	0.00
10yr3d	NSLRWCD C37	BASE	170.52	9.70	18.50	0	0.50	0.00	18.02	0.00
10yr3d	NSLRWCD C37	BASE	170.77	9.70	18.50	0	0.50	0.00	18.03	0.00
10yr3d	NSLRWCD C37	BASE	171.02	9.70	18.50	0	0.50	0.00	18.04	0.00
10yr3d	NSLRWCD C37	BASE	171.27	9.69	18.50	0	0.50	0.00	18.05	0.00
10yr3d	NSLRWCD C37	BASE	171.52	9.69	18.50	0	0.50	0.00	18.06	0.00
10yr3d	NSLRWCD C37	BASE	171.77	9.69	18.50	0	0.50	0.00	18.07	0.00
10yr3d	NSLRWCD C37	BASE	172.02	9.69	18.50	0	0.50	0.00	18.08	0.00
10yr3d	NSLRWCD C37	BASE	172.27	9.68	18.50	0	0.50	0.00	18.09	0.00
10yr3d	NSLRWCD C37	BASE	172.52	9.68	18.50	0	0.50	0.00	18.10	0.00
10yr3d	NSLRWCD C37	BASE	172.77	9.68	18.50	0	0.50	0.00	18.11	0.00
10yr3d	NSLRWCD C37	BASE	173.02	9.68	18.50	0	0.50	0.00	18.12	0.00
10yr3d	NSLRWCD C37	BASE	173.27	9.67	18.50	0	0.50	0.00	18.13	0.00
10yr3d	NSLRWCD C37	BASE	173.52	9.67	18.50	0	0.50	0.00	18.14	0.00
10yr3d	NSLRWCD C37	BASE	173.77	9.67	18.50	0	0.50	0.00	18.15	0.00
10yr3d	NSLRWCD C37	BASE	174.02	9.67	18.50	0	0.50	0.00	18.16	0.00
10yr3d	NSLRWCD C37	BASE	174.27	9.66	18.50	0	0.50	0.00	18.17	0.00
10yr3d	NSLRWCD C37	BASE	174.52	9.66	18.50	0	0.50	0.00	18.18	0.00
10yr3d	NSLRWCD C37	BASE	174.77	9.66	18.50	0	0.50	0.00	18.19	0.00
10yr3d	NSLRWCD C37	BASE	175.02	9.66	18.50	0	0.49	0.00	18.20	0.00
10yr3d	NSLRWCD C37	BASE	175.27	9.65	18.50	0	0.49	0.00	18.21	0.00
10yr3d	NSLRWCD C37	BASE	175.52	9.65	18.50	0	0.49	0.00	18.22	0.00
10yr3d	NSLRWCD C37	BASE	175.77	9.65	18.50	0	0.49	0.00	18.23	0.00
10yr3d	NSLRWCD C37	BASE	176.02	9.65	18.50	0	0.49	0.00	18.24	0.00
10yr3d	NSLRWCD C37	BASE	176.27	9.64	18.50	0	0.49	0.00	18.25	0.00
10yr3d	NSLRWCD C37	BASE	176.52	9.64	18.50	0	0.49	0.00	18.26	0.00
10yr3d	NSLRWCD C37	BASE	176.77	9.64	18.50	0	0.49	0.00	18.28	0.00
10yr3d	NSLRWCD C37	BASE	177.02	9.64	18.50	0	0.49	0.00	18.29	0.00
10yr3d	NSLRWCD C37	BASE	177.27	9.63	18.50	0	0.49	0.00	18.30	0.00
10yr3d	NSLRWCD C37	BASE	177.52	9.63	18.50	0	0.49	0.00	18.31	0.00
10yr3d	NSLRWCD C37	BASE	177.77	9.63	18.50	0	0.49	0.00	18.32	0.00
10yr3d	NSLRWCD C37	BASE	178.02	9.63	18.50	0	0.49	0.00	18.33	0.00
10yr3d	NSLRWCD C37	BASE	178.27	9.62	18.50	0	0.49	0.00	18.34	0.00
10yr3d	NSLRWCD C37	BASE	178.52	9.62	18.50	0	0.49	0.00	18.35	0.00
10yr3d	NSLRWCD C37	BASE	178.77	9.62	18.50	0	0.49	0.00	18.36	0.00
10yr3d	NSLRWCD C37	BASE	179.02	9.61	18.50	0	0.49	0.00	18.37	0.00
10yr3d	NSLRWCD C37	BASE	179.27	9.61	18.50	0	0.49	0.00	18.38	0.00
10yr3d	NSLRWCD C37	BASE	179.52	9.61	18.50	0	0.49	0.00	18.39	0.00
10yr3d	NSLRWCD C37	BASE	179.77	9.61	18.50	0	0.49	0.00	18.40	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	180.02	9.60	18.50	0	0.49	0.00	18.41	0.00
10yr3d	NSLRWCD C37	BASE	180.27	9.60	18.50	0	0.49	0.00	18.42	0.00
10yr3d	NSLRWCD C37	BASE	180.52	9.60	18.50	0	0.48	0.00	18.43	0.00
10yr3d	NSLRWCD C37	BASE	180.77	9.60	18.50	0	0.48	0.00	18.44	0.00
10yr3d	NSLRWCD C37	BASE	181.02	9.59	18.50	0	0.48	0.00	18.45	0.00
10yr3d	NSLRWCD C37	BASE	181.27	9.59	18.50	0	0.48	0.00	18.46	0.00
10yr3d	NSLRWCD C37	BASE	181.52	9.59	18.50	0	0.48	0.00	18.47	0.00
10yr3d	NSLRWCD C37	BASE	181.77	9.59	18.50	0	0.48	0.00	18.48	0.00
10yr3d	NSLRWCD C37	BASE	182.02	9.58	18.50	0	0.48	0.00	18.49	0.00
10yr3d	NSLRWCD C37	BASE	182.27	9.58	18.50	0	0.48	0.00	18.50	0.00
10yr3d	NSLRWCD C37	BASE	182.52	9.58	18.50	0	0.48	0.00	18.51	0.00
10yr3d	NSLRWCD C37	BASE	182.77	9.58	18.50	0	0.48	0.00	18.52	0.00
10yr3d	NSLRWCD C37	BASE	183.02	9.57	18.50	0	0.48	0.00	18.53	0.00
10yr3d	NSLRWCD C37	BASE	183.27	9.57	18.50	0	0.48	0.00	18.54	0.00
10yr3d	NSLRWCD C37	BASE	183.52	9.57	18.50	0	0.48	0.00	18.55	0.00
10yr3d	NSLRWCD C37	BASE	183.77	9.57	18.50	0	0.48	0.00	18.56	0.00
10yr3d	NSLRWCD C37	BASE	184.02	9.56	18.50	0	0.48	0.00	18.57	0.00
10yr3d	NSLRWCD C37	BASE	184.27	9.56	18.50	0	0.48	0.00	18.58	0.00
10yr3d	NSLRWCD C37	BASE	184.52	9.56	18.50	0	0.48	0.00	18.59	0.00
10yr3d	NSLRWCD C37	BASE	184.77	9.56	18.50	0	0.48	0.00	18.60	0.00
10yr3d	NSLRWCD C37	BASE	185.02	9.55	18.50	0	0.48	0.00	18.61	0.00
10yr3d	NSLRWCD C37	BASE	185.27	9.55	18.50	0	0.48	0.00	18.62	0.00
10yr3d	NSLRWCD C37	BASE	185.52	9.55	18.50	0	0.48	0.00	18.62	0.00
10yr3d	NSLRWCD C37	BASE	185.77	9.55	18.50	0	0.48	0.00	18.63	0.00
10yr3d	NSLRWCD C37	BASE	186.02	9.54	18.50	0	0.48	0.00	18.64	0.00
10yr3d	NSLRWCD C37	BASE	186.27	9.54	18.50	0	0.47	0.00	18.65	0.00
10yr3d	NSLRWCD C37	BASE	186.52	9.54	18.50	0	0.47	0.00	18.66	0.00
10yr3d	NSLRWCD C37	BASE	186.77	9.54	18.50	0	0.47	0.00	18.67	0.00
10yr3d	NSLRWCD C37	BASE	187.02	9.53	18.50	0	0.47	0.00	18.68	0.00
10yr3d	NSLRWCD C37	BASE	187.27	9.53	18.50	0	0.47	0.00	18.69	0.00
10yr3d	NSLRWCD C37	BASE	187.52	9.53	18.50	0	0.47	0.00	18.70	0.00
10yr3d	NSLRWCD C37	BASE	187.77	9.53	18.50	0	0.47	0.00	18.71	0.00
10yr3d	NSLRWCD C37	BASE	188.02	9.52	18.50	0	0.47	0.00	18.72	0.00
10yr3d	NSLRWCD C37	BASE	188.27	9.52	18.50	0	0.47	0.00	18.73	0.00
10yr3d	NSLRWCD C37	BASE	188.52	9.52	18.50	0	0.47	0.00	18.74	0.00
10yr3d	NSLRWCD C37	BASE	188.77	9.52	18.50	0	0.47	0.00	18.75	0.00
10yr3d	NSLRWCD C37	BASE	189.02	9.51	18.50	0	0.47	0.00	18.76	0.00
10yr3d	NSLRWCD C37	BASE	189.27	9.51	18.50	0	0.47	0.00	18.77	0.00
10yr3d	NSLRWCD C37	BASE	189.52	9.51	18.50	0	0.47	0.00	18.78	0.00
10yr3d	NSLRWCD C37	BASE	189.77	9.51	18.50	0	0.47	0.00	18.79	0.00
10yr3d	NSLRWCD C37	BASE	190.02	9.50	18.50	0	0.47	0.00	18.80	0.00
10yr3d	NSLRWCD C37	BASE	190.27	9.50	18.50	0	0.47	0.00	18.81	0.00
10yr3d	NSLRWCD C37	BASE	190.52	9.50	18.50	0	0.47	0.00	18.82	0.00
10yr3d	NSLRWCD C37	BASE	190.77	9.50	18.50	0	0.47	0.00	18.83	0.00
10yr3d	NSLRWCD C37	BASE	191.02	9.49	18.50	0	0.47	0.00	18.84	0.00
10yr3d	NSLRWCD C37	BASE	191.27	9.49	18.50	0	0.47	0.00	18.85	0.00
10yr3d	NSLRWCD C37	BASE	191.52	9.49	18.50	0	0.47	0.00	18.86	0.00
10yr3d	NSLRWCD C37	BASE	191.77	9.49	18.50	0	0.46	0.00	18.87	0.00
10yr3d	NSLRWCD C37	BASE	192.02	9.48	18.50	0	0.46	0.00	18.88	0.00
10yr3d	NSLRWCD C37	BASE	192.27	9.48	18.50	0	0.46	0.00	18.89	0.00
10yr3d	NSLRWCD C37	BASE	192.52	9.48	18.50	0	0.46	0.00	18.90	0.00
10yr3d	NSLRWCD C37	BASE	192.77	9.48	18.50	0	0.46	0.00	18.91	0.00
10yr3d	NSLRWCD C37	BASE	193.02	9.47	18.50	0	0.46	0.00	18.92	0.00
10yr3d	NSLRWCD C37	BASE	193.27	9.47	18.50	0	0.46	0.00	18.93	0.00
10yr3d	NSLRWCD C37	BASE	193.52	9.47	18.50	0	0.46	0.00	18.93	0.00
10yr3d	NSLRWCD C37	BASE	193.77	9.47	18.50	0	0.46	0.00	18.94	0.00
10yr3d	NSLRWCD C37	BASE	194.02	9.46	18.50	0	0.46	0.00	18.95	0.00
10yr3d	NSLRWCD C37	BASE	194.27	9.46	18.50	0	0.46	0.00	18.96	0.00
10yr3d	NSLRWCD C37	BASE	194.52	9.46	18.50	0	0.46	0.00	18.97	0.00
10yr3d	NSLRWCD C37	BASE	194.77	9.46	18.50	0	0.46	0.00	18.98	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	195.02	9.45	18.50	0	0.46	0.00	18.99	0.00
10yr3d	NSLRWCD C37	BASE	195.27	9.45	18.50	0	0.46	0.00	19.00	0.00
10yr3d	NSLRWCD C37	BASE	195.52	9.45	18.50	0	0.46	0.00	19.01	0.00
10yr3d	NSLRWCD C37	BASE	195.77	9.45	18.50	0	0.46	0.00	19.02	0.00
10yr3d	NSLRWCD C37	BASE	196.02	9.44	18.50	0	0.46	0.00	19.03	0.00
10yr3d	NSLRWCD C37	BASE	196.27	9.44	18.50	0	0.46	0.00	19.04	0.00
10yr3d	NSLRWCD C37	BASE	196.52	9.44	18.50	0	0.46	0.00	19.05	0.00
10yr3d	NSLRWCD C37	BASE	196.77	9.44	18.50	0	0.46	0.00	19.06	0.00
10yr3d	NSLRWCD C37	BASE	197.02	9.43	18.50	0	0.46	0.00	19.07	0.00
10yr3d	NSLRWCD C37	BASE	197.27	9.43	18.50	0	0.45	0.00	19.08	0.00
10yr3d	NSLRWCD C37	BASE	197.52	9.43	18.50	0	0.45	0.00	19.09	0.00
10yr3d	NSLRWCD C37	BASE	197.77	9.42	18.50	0	0.45	0.00	19.10	0.00
10yr3d	NSLRWCD C37	BASE	198.02	9.42	18.50	0	0.45	0.00	19.11	0.00
10yr3d	NSLRWCD C37	BASE	198.27	9.42	18.50	0	0.45	0.00	19.11	0.00
10yr3d	NSLRWCD C37	BASE	198.52	9.42	18.50	0	0.45	0.00	19.12	0.00
10yr3d	NSLRWCD C37	BASE	198.77	9.41	18.50	0	0.45	0.00	19.13	0.00
10yr3d	NSLRWCD C37	BASE	199.02	9.41	18.50	0	0.45	0.00	19.14	0.00
10yr3d	NSLRWCD C37	BASE	199.27	9.41	18.50	0	0.45	0.00	19.15	0.00
10yr3d	NSLRWCD C37	BASE	199.52	9.41	18.50	0	0.45	0.00	19.16	0.00
10yr3d	NSLRWCD C37	BASE	199.77	9.40	18.50	0	0.45	0.00	19.17	0.00
10yr3d	NSLRWCD C37	BASE	200.02	9.40	18.50	0	0.45	0.00	19.18	0.00
10yr3d	NSLRWCD C37	BASE	200.27	9.40	18.50	0	0.45	0.00	19.19	0.00
10yr3d	NSLRWCD C37	BASE	200.52	9.40	18.50	0	0.45	0.00	19.20	0.00
10yr3d	NSLRWCD C37	BASE	200.77	9.39	18.50	0	0.45	0.00	19.21	0.00
10yr3d	NSLRWCD C37	BASE	201.02	9.39	18.50	0	0.45	0.00	19.22	0.00
10yr3d	NSLRWCD C37	BASE	201.27	9.39	18.50	0	0.45	0.00	19.23	0.00
10yr3d	NSLRWCD C37	BASE	201.52	9.39	18.50	0	0.45	0.00	19.24	0.00
10yr3d	NSLRWCD C37	BASE	201.77	9.38	18.50	0	0.45	0.00	19.24	0.00
10yr3d	NSLRWCD C37	BASE	202.02	9.38	18.50	0	0.45	0.00	19.25	0.00
10yr3d	NSLRWCD C37	BASE	202.27	9.38	18.50	0	0.45	0.00	19.26	0.00
10yr3d	NSLRWCD C37	BASE	202.52	9.38	18.50	0	0.45	0.00	19.27	0.00
10yr3d	NSLRWCD C37	BASE	202.77	9.37	18.50	0	0.44	0.00	19.28	0.00
10yr3d	NSLRWCD C37	BASE	203.02	9.37	18.50	0	0.44	0.00	19.29	0.00
10yr3d	NSLRWCD C37	BASE	203.27	9.37	18.50	0	0.44	0.00	19.30	0.00
10yr3d	NSLRWCD C37	BASE	203.52	9.37	18.50	0	0.44	0.00	19.31	0.00
10yr3d	NSLRWCD C37	BASE	203.77	9.36	18.50	0	0.44	0.00	19.32	0.00
10yr3d	NSLRWCD C37	BASE	204.02	9.36	18.50	0	0.44	0.00	19.33	0.00
10yr3d	NSLRWCD C37	BASE	204.27	9.36	18.50	0	0.44	0.00	19.34	0.00
10yr3d	NSLRWCD C37	BASE	204.52	9.36	18.50	0	0.44	0.00	19.35	0.00
10yr3d	NSLRWCD C37	BASE	204.77	9.35	18.50	0	0.44	0.00	19.35	0.00
10yr3d	NSLRWCD C37	BASE	205.02	9.35	18.50	0	0.44	0.00	19.36	0.00
10yr3d	NSLRWCD C37	BASE	205.27	9.35	18.50	0	0.44	0.00	19.37	0.00
10yr3d	NSLRWCD C37	BASE	205.52	9.35	18.50	0	0.44	0.00	19.38	0.00
10yr3d	NSLRWCD C37	BASE	205.77	9.34	18.50	0	0.44	0.00	19.39	0.00
10yr3d	NSLRWCD C37	BASE	206.02	9.34	18.50	0	0.44	0.00	19.40	0.00
10yr3d	NSLRWCD C37	BASE	206.27	9.34	18.50	0	0.44	0.00	19.41	0.00
10yr3d	NSLRWCD C37	BASE	206.52	9.34	18.50	0	0.44	0.00	19.42	0.00
10yr3d	NSLRWCD C37	BASE	206.77	9.33	18.50	0	0.44	0.00	19.43	0.00
10yr3d	NSLRWCD C37	BASE	207.02	9.33	18.50	0	0.44	0.00	19.44	0.00
10yr3d	NSLRWCD C37	BASE	207.27	9.33	18.50	0	0.44	0.00	19.45	0.00
10yr3d	NSLRWCD C37	BASE	207.52	9.33	18.50	0	0.44	0.00	19.45	0.00
10yr3d	NSLRWCD C37	BASE	207.77	9.32	18.50	0	0.44	0.00	19.46	0.00
10yr3d	NSLRWCD C37	BASE	208.02	9.32	18.50	0	0.44	0.00	19.47	0.00
10yr3d	NSLRWCD C37	BASE	208.27	9.32	18.50	0	0.44	0.00	19.48	0.00
10yr3d	NSLRWCD C37	BASE	208.52	9.32	18.50	0	0.43	0.00	19.49	0.00
10yr3d	NSLRWCD C37	BASE	208.77	9.31	18.50	0	0.43	0.00	19.50	0.00
10yr3d	NSLRWCD C37	BASE	209.02	9.31	18.50	0	0.43	0.00	19.51	0.00
10yr3d	NSLRWCD C37	BASE	209.27	9.31	18.50	0	0.43	0.00	19.52	0.00
10yr3d	NSLRWCD C37	BASE	209.52	9.31	18.50	0	0.43	0.00	19.53	0.00
10yr3d	NSLRWCD C37	BASE	209.77	9.30	18.50	0	0.43	0.00	19.54	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	210.02	9.30	18.50	0	0.43	0.00	19.54	0.00
10yr3d	NSLRWCD C37	BASE	210.27	9.30	18.50	0	0.43	0.00	19.55	0.00
10yr3d	NSLRWCD C37	BASE	210.52	9.30	18.50	0	0.43	0.00	19.56	0.00
10yr3d	NSLRWCD C37	BASE	210.77	9.29	18.50	0	0.43	0.00	19.57	0.00
10yr3d	NSLRWCD C37	BASE	211.02	9.29	18.50	0	0.43	0.00	19.58	0.00
10yr3d	NSLRWCD C37	BASE	211.27	9.29	18.50	0	0.43	0.00	19.59	0.00
10yr3d	NSLRWCD C37	BASE	211.52	9.29	18.50	0	0.43	0.00	19.60	0.00
10yr3d	NSLRWCD C37	BASE	211.77	9.28	18.50	0	0.43	0.00	19.61	0.00
10yr3d	NSLRWCD C37	BASE	212.02	9.28	18.50	0	0.43	0.00	19.62	0.00
10yr3d	NSLRWCD C37	BASE	212.27	9.28	18.50	0	0.43	0.00	19.62	0.00
10yr3d	NSLRWCD C37	BASE	212.52	9.28	18.50	0	0.43	0.00	19.63	0.00
10yr3d	NSLRWCD C37	BASE	212.77	9.27	18.50	0	0.43	0.00	19.64	0.00
10yr3d	NSLRWCD C37	BASE	213.02	9.27	18.50	0	0.43	0.00	19.65	0.00
10yr3d	NSLRWCD C37	BASE	213.27	9.27	18.50	0	0.43	0.00	19.66	0.00
10yr3d	NSLRWCD C37	BASE	213.52	9.27	18.50	0	0.43	0.00	19.67	0.00
10yr3d	NSLRWCD C37	BASE	213.77	9.26	18.50	0	0.43	0.00	19.68	0.00
10yr3d	NSLRWCD C37	BASE	214.02	9.26	18.50	0	0.42	0.00	19.69	0.00
10yr3d	NSLRWCD C37	BASE	214.27	9.26	18.50	0	0.42	0.00	19.69	0.00
10yr3d	NSLRWCD C37	BASE	214.52	9.26	18.50	0	0.42	0.00	19.70	0.00
10yr3d	NSLRWCD C37	BASE	214.77	9.25	18.50	0	0.42	0.00	19.71	0.00
10yr3d	NSLRWCD C37	BASE	215.02	9.25	18.50	0	0.42	0.00	19.72	0.00
10yr3d	NSLRWCD C37	BASE	215.27	9.25	18.50	0	0.42	0.00	19.73	0.00
10yr3d	NSLRWCD C37	BASE	215.52	9.24	18.50	0	0.42	0.00	19.74	0.00
10yr3d	NSLRWCD C37	BASE	215.77	9.24	18.50	0	0.42	0.00	19.75	0.00
10yr3d	NSLRWCD C37	BASE	216.02	9.24	18.50	0	0.42	0.00	19.76	0.00
10yr3d	NSLRWCD C37	BASE	216.27	9.24	18.50	0	0.42	0.00	19.76	0.00
10yr3d	NSLRWCD C37	BASE	216.52	9.23	18.50	0	0.42	0.00	19.77	0.00
10yr3d	NSLRWCD C37	BASE	216.77	9.23	18.50	0	0.42	0.00	19.78	0.00
10yr3d	NSLRWCD C37	BASE	217.02	9.23	18.50	0	0.42	0.00	19.79	0.00
10yr3d	NSLRWCD C37	BASE	217.27	9.23	18.50	0	0.42	0.00	19.80	0.00
10yr3d	NSLRWCD C37	BASE	217.52	9.22	18.50	0	0.42	0.00	19.81	0.00
10yr3d	NSLRWCD C37	BASE	217.77	9.22	18.50	0	0.42	0.00	19.82	0.00
10yr3d	NSLRWCD C37	BASE	218.02	9.22	18.50	0	0.42	0.00	19.82	0.00
10yr3d	NSLRWCD C37	BASE	218.27	9.22	18.50	0	0.42	0.00	19.83	0.00
10yr3d	NSLRWCD C37	BASE	218.52	9.21	18.50	0	0.42	0.00	19.84	0.00
10yr3d	NSLRWCD C37	BASE	218.77	9.21	18.50	0	0.42	0.00	19.85	0.00
10yr3d	NSLRWCD C37	BASE	219.02	9.21	18.50	0	0.42	0.00	19.86	0.00
10yr3d	NSLRWCD C37	BASE	219.27	9.21	18.50	0	0.42	0.00	19.87	0.00
10yr3d	NSLRWCD C37	BASE	219.52	9.20	18.50	0	0.41	0.00	19.88	0.00
10yr3d	NSLRWCD C37	BASE	219.77	9.20	18.50	0	0.41	0.00	19.88	0.00
10yr3d	NSLRWCD C37	BASE	220.02	9.20	18.50	0	0.41	0.00	19.89	0.00
10yr3d	NSLRWCD C37	BASE	220.27	9.20	18.50	0	0.41	0.00	19.90	0.00
10yr3d	NSLRWCD C37	BASE	220.52	9.19	18.50	0	0.41	0.00	19.91	0.00
10yr3d	NSLRWCD C37	BASE	220.77	9.19	18.50	0	0.41	0.00	19.92	0.00
10yr3d	NSLRWCD C37	BASE	221.02	9.19	18.50	0	0.41	0.00	19.93	0.00
10yr3d	NSLRWCD C37	BASE	221.27	9.19	18.50	0	0.41	0.00	19.94	0.00
10yr3d	NSLRWCD C37	BASE	221.52	9.18	18.50	0	0.41	0.00	19.94	0.00
10yr3d	NSLRWCD C37	BASE	221.77	9.18	18.50	0	0.41	0.00	19.95	0.00
10yr3d	NSLRWCD C37	BASE	222.02	9.18	18.50	0	0.41	0.00	19.96	0.00
10yr3d	NSLRWCD C37	BASE	222.27	9.18	18.50	0	0.41	0.00	19.97	0.00
10yr3d	NSLRWCD C37	BASE	222.52	9.17	18.50	0	0.41	0.00	19.98	0.00
10yr3d	NSLRWCD C37	BASE	222.77	9.17	18.50	0	0.41	0.00	19.99	0.00
10yr3d	NSLRWCD C37	BASE	223.02	9.17	18.50	0	0.41	0.00	20.00	0.00
10yr3d	NSLRWCD C37	BASE	223.27	9.17	18.50	0	0.41	0.00	20.00	0.00
10yr3d	NSLRWCD C37	BASE	223.52	9.16	18.50	0	0.41	0.00	20.01	0.00
10yr3d	NSLRWCD C37	BASE	223.77	9.16	18.50	0	0.41	0.00	20.02	0.00
10yr3d	NSLRWCD C37	BASE	224.02	9.16	18.50	0	0.41	0.00	20.03	0.00
10yr3d	NSLRWCD C37	BASE	224.27	9.16	18.50	0	0.41	0.00	20.04	0.00
10yr3d	NSLRWCD C37	BASE	224.52	9.15	18.50	0	0.41	0.00	20.05	0.00
10yr3d	NSLRWCD C37	BASE	224.77	9.15	18.50	0	0.41	0.00	20.05	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	225.02	9.15	18.50	0	0.40	0.00	20.06	0.00
10yr3d	NSLRWCD C37	BASE	225.27	9.15	18.50	0	0.40	0.00	20.07	0.00
10yr3d	NSLRWCD C37	BASE	225.52	9.14	18.50	0	0.40	0.00	20.08	0.00
10yr3d	NSLRWCD C37	BASE	225.77	9.14	18.50	0	0.40	0.00	20.09	0.00
10yr3d	NSLRWCD C37	BASE	226.02	9.14	18.50	0	0.40	0.00	20.10	0.00
10yr3d	NSLRWCD C37	BASE	226.27	9.14	18.50	0	0.40	0.00	20.10	0.00
10yr3d	NSLRWCD C37	BASE	226.52	9.13	18.50	0	0.40	0.00	20.11	0.00
10yr3d	NSLRWCD C37	BASE	226.77	9.13	18.50	0	0.40	0.00	20.12	0.00
10yr3d	NSLRWCD C37	BASE	227.02	9.13	18.50	0	0.40	0.00	20.13	0.00
10yr3d	NSLRWCD C37	BASE	227.27	9.13	18.50	0	0.40	0.00	20.14	0.00
10yr3d	NSLRWCD C37	BASE	227.52	9.12	18.50	0	0.40	0.00	20.15	0.00
10yr3d	NSLRWCD C37	BASE	227.77	9.12	18.50	0	0.40	0.00	20.15	0.00
10yr3d	NSLRWCD C37	BASE	228.02	9.12	18.50	0	0.40	0.00	20.16	0.00
10yr3d	NSLRWCD C37	BASE	228.27	9.12	18.50	0	0.40	0.00	20.17	0.00
10yr3d	NSLRWCD C37	BASE	228.52	9.11	18.50	0	0.40	0.00	20.18	0.00
10yr3d	NSLRWCD C37	BASE	228.77	9.11	18.50	0	0.40	0.00	20.19	0.00
10yr3d	NSLRWCD C37	BASE	229.02	9.11	18.50	0	0.40	0.00	20.20	0.00
10yr3d	NSLRWCD C37	BASE	229.27	9.11	18.50	0	0.40	0.00	20.20	0.00
10yr3d	NSLRWCD C37	BASE	229.52	9.10	18.50	0	0.40	0.00	20.21	0.00
10yr3d	NSLRWCD C37	BASE	229.77	9.10	18.50	0	0.40	0.00	20.22	0.00
10yr3d	NSLRWCD C37	BASE	230.02	9.10	18.50	0	0.40	0.00	20.23	0.00
10yr3d	NSLRWCD C37	BASE	230.27	9.10	18.50	0	0.40	0.00	20.24	0.00
10yr3d	NSLRWCD C37	BASE	230.52	9.09	18.50	0	0.39	0.00	20.24	0.00
10yr3d	NSLRWCD C37	BASE	230.77	9.09	18.50	0	0.39	0.00	20.25	0.00
10yr3d	NSLRWCD C37	BASE	231.02	9.09	18.50	0	0.39	0.00	20.26	0.00
10yr3d	NSLRWCD C37	BASE	231.27	9.09	18.50	0	0.39	0.00	20.27	0.00
10yr3d	NSLRWCD C37	BASE	231.52	9.08	18.50	0	0.39	0.00	20.28	0.00
10yr3d	NSLRWCD C37	BASE	231.77	9.08	18.50	0	0.39	0.00	20.28	0.00
10yr3d	NSLRWCD C37	BASE	232.02	9.08	18.50	0	0.39	0.00	20.29	0.00
10yr3d	NSLRWCD C37	BASE	232.27	9.08	18.50	0	0.39	0.00	20.30	0.00
10yr3d	NSLRWCD C37	BASE	232.52	9.07	18.50	0	0.39	0.00	20.31	0.00
10yr3d	NSLRWCD C37	BASE	232.77	9.07	18.50	0	0.39	0.00	20.32	0.00
10yr3d	NSLRWCD C37	BASE	233.02	9.07	18.50	0	0.39	0.00	20.33	0.00
10yr3d	NSLRWCD C37	BASE	233.27	9.06	18.50	0	0.39	0.00	20.33	0.00
10yr3d	NSLRWCD C37	BASE	233.52	9.06	18.50	0	0.39	0.00	20.34	0.00
10yr3d	NSLRWCD C37	BASE	233.77	9.06	18.50	0	0.39	0.00	20.35	0.00
10yr3d	NSLRWCD C37	BASE	234.02	9.06	18.50	0	0.39	0.00	20.36	0.00
10yr3d	NSLRWCD C37	BASE	234.27	9.05	18.50	0	0.39	0.00	20.37	0.00
10yr3d	NSLRWCD C37	BASE	234.52	9.05	18.50	0	0.39	0.00	20.37	0.00
10yr3d	NSLRWCD C37	BASE	234.77	9.05	18.50	0	0.39	0.00	20.38	0.00
10yr3d	NSLRWCD C37	BASE	235.02	9.05	18.50	0	0.39	0.00	20.39	0.00
10yr3d	NSLRWCD C37	BASE	235.27	9.04	18.50	0	0.39	0.00	20.40	0.00
10yr3d	NSLRWCD C37	BASE	235.52	9.04	18.50	0	0.39	0.00	20.41	0.00
10yr3d	NSLRWCD C37	BASE	235.77	9.04	18.50	0	0.39	0.00	20.41	0.00
10yr3d	NSLRWCD C37	BASE	236.02	9.04	18.50	0	0.38	0.00	20.42	0.00
10yr3d	NSLRWCD C37	BASE	236.27	9.03	18.50	0	0.38	0.00	20.43	0.00
10yr3d	NSLRWCD C37	BASE	236.52	9.03	18.50	0	0.38	0.00	20.44	0.00
10yr3d	NSLRWCD C37	BASE	236.77	9.03	18.50	0	0.38	0.00	20.45	0.00
10yr3d	NSLRWCD C37	BASE	237.02	9.03	18.50	0	0.38	0.00	20.45	0.00
10yr3d	NSLRWCD C37	BASE	237.27	9.02	18.50	0	0.38	0.00	20.46	0.00
10yr3d	NSLRWCD C37	BASE	237.52	9.02	18.50	0	0.38	0.00	20.47	0.00
10yr3d	NSLRWCD C37	BASE	237.77	9.02	18.50	0	0.38	0.00	20.48	0.00
10yr3d	NSLRWCD C37	BASE	238.02	9.02	18.50	0	0.38	0.00	20.48	0.00
10yr3d	NSLRWCD C37	BASE	238.27	9.01	18.50	0	0.38	0.00	20.49	0.00
10yr3d	NSLRWCD C37	BASE	238.52	9.01	18.50	0	0.38	0.00	20.50	0.00
10yr3d	NSLRWCD C37	BASE	238.77	9.01	18.50	0	0.38	0.00	20.51	0.00
10yr3d	NSLRWCD C37	BASE	239.02	9.01	18.50	0	0.38	0.00	20.52	0.00
10yr3d	NSLRWCD C37	BASE	239.27	9.00	18.50	0	0.38	0.00	20.52	0.00
10yr3d	NSLRWCD C37	BASE	239.52	9.00	18.50	0	0.38	0.00	20.53	0.00
10yr3d	NSLRWCD C37	BASE	239.77	9.00	18.50	0	0.38	0.00	20.54	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	240.02	9.00	18.50	0	0.38	0.00	20.55	0.00
10yr3d	NSLRWCD C37	BASE	240.27	8.99	18.50	0	0.38	0.00	20.56	0.00
10yr3d	NSLRWCD C37	BASE	240.52	8.99	18.50	0	0.38	0.00	20.56	0.00
10yr3d	NSLRWCD C37	BASE	240.77	8.99	18.50	0	0.38	0.00	20.57	0.00
10yr3d	NSLRWCD C37	BASE	241.02	8.99	18.50	0	0.38	0.00	20.58	0.00
10yr3d	NSLRWCD C37	BASE	241.27	8.98	18.50	0	0.38	0.00	20.59	0.00
10yr3d	NSLRWCD C37	BASE	241.52	8.98	18.50	0	0.37	0.00	20.59	0.00
10yr3d	NSLRWCD C37	BASE	241.77	8.98	18.50	0	0.37	0.00	20.60	0.00
10yr3d	NSLRWCD C37	BASE	242.02	8.98	18.50	0	0.37	0.00	20.61	0.00
10yr3d	NSLRWCD C37	BASE	242.27	8.97	18.50	0	0.37	0.00	20.62	0.00
10yr3d	NSLRWCD C37	BASE	242.52	8.97	18.50	0	0.37	0.00	20.62	0.00
10yr3d	NSLRWCD C37	BASE	242.77	8.97	18.50	0	0.37	0.00	20.63	0.00
10yr3d	NSLRWCD C37	BASE	243.02	8.97	18.50	0	0.37	0.00	20.64	0.00
10yr3d	NSLRWCD C37	BASE	243.27	8.96	18.50	0	0.37	0.00	20.65	0.00
10yr3d	NSLRWCD C37	BASE	243.52	8.96	18.50	0	0.37	0.00	20.66	0.00
10yr3d	NSLRWCD C37	BASE	243.77	8.96	18.50	0	0.37	0.00	20.66	0.00
10yr3d	NSLRWCD C37	BASE	244.02	8.96	18.50	0	0.37	0.00	20.67	0.00
10yr3d	NSLRWCD C37	BASE	244.27	8.95	18.50	0	0.37	0.00	20.68	0.00
10yr3d	NSLRWCD C37	BASE	244.52	8.95	18.50	0	0.37	0.00	20.69	0.00
10yr3d	NSLRWCD C37	BASE	244.77	8.95	18.50	0	0.37	0.00	20.69	0.00
10yr3d	NSLRWCD C37	BASE	245.02	8.95	18.50	0	0.37	0.00	20.70	0.00
10yr3d	NSLRWCD C37	BASE	245.27	8.94	18.50	0	0.37	0.00	20.71	0.00
10yr3d	NSLRWCD C37	BASE	245.51	8.94	18.50	0	0.37	0.00	20.72	0.00
10yr3d	NSLRWCD C37	BASE	245.75	8.94	18.50	0	0.37	0.00	20.72	0.00
10yr3d	NSLRWCD C37	BASE	246.01	8.94	18.50	0	0.37	0.00	20.73	0.00
10yr3d	NSLRWCD C37	BASE	246.25	8.93	18.50	0	0.37	0.00	20.74	0.00
10yr3d	NSLRWCD C37	BASE	246.51	8.93	18.50	0	0.37	0.00	20.75	0.00
10yr3d	NSLRWCD C37	BASE	246.76	8.93	18.50	0	0.37	0.00	20.75	0.00
10yr3d	NSLRWCD C37	BASE	247.01	8.93	18.50	0	0.36	0.00	20.76	0.00
10yr3d	NSLRWCD C37	BASE	247.26	8.92	18.50	0	0.36	0.00	20.77	0.00
10yr3d	NSLRWCD C37	BASE	247.51	8.92	18.50	0	0.36	0.00	20.78	0.00
10yr3d	NSLRWCD C37	BASE	247.76	8.92	18.50	0	0.36	0.00	20.78	0.00
10yr3d	NSLRWCD C37	BASE	248.01	8.92	18.50	0	0.36	0.00	20.79	0.00
10yr3d	NSLRWCD C37	BASE	248.26	8.91	18.50	0	0.36	0.00	20.80	0.00
10yr3d	NSLRWCD C37	BASE	248.51	8.91	18.50	0	0.36	0.00	20.81	0.00
10yr3d	NSLRWCD C37	BASE	248.76	8.91	18.50	0	0.36	0.00	20.81	0.00
10yr3d	NSLRWCD C37	BASE	249.01	8.91	18.50	0	0.36	0.00	20.82	0.00
10yr3d	NSLRWCD C37	BASE	249.26	8.90	18.50	0	0.36	0.00	20.83	0.00
10yr3d	NSLRWCD C37	BASE	249.51	8.90	18.50	0	0.36	0.00	20.84	0.00
10yr3d	NSLRWCD C37	BASE	249.76	8.90	18.50	0	0.36	0.00	20.84	0.00
10yr3d	NSLRWCD C37	BASE	250.01	8.90	18.50	0	0.36	0.00	20.85	0.00
10yr3d	NSLRWCD C37	BASE	250.26	8.89	18.50	0	0.36	0.00	20.86	0.00
10yr3d	NSLRWCD C37	BASE	250.51	8.89	18.50	0	0.36	0.00	20.87	0.00
10yr3d	NSLRWCD C37	BASE	250.76	8.89	18.50	0	0.36	0.00	20.87	0.00
10yr3d	NSLRWCD C37	BASE	251.01	8.89	18.50	0	0.36	0.00	20.88	0.00
10yr3d	NSLRWCD C37	BASE	251.26	8.88	18.50	0	0.36	0.00	20.89	0.00
10yr3d	NSLRWCD C37	BASE	251.51	8.88	18.50	0	0.36	0.00	20.90	0.00
10yr3d	NSLRWCD C37	BASE	251.76	8.88	18.50	0	0.36	0.00	20.90	0.00
10yr3d	NSLRWCD C37	BASE	252.01	8.87	18.50	0	0.36	0.00	20.91	0.00
10yr3d	NSLRWCD C37	BASE	252.26	8.87	18.50	0	0.36	0.00	20.92	0.00
10yr3d	NSLRWCD C37	BASE	252.51	8.87	18.50	0	0.35	0.00	20.93	0.00
10yr3d	NSLRWCD C37	BASE	252.76	8.87	18.50	0	0.35	0.00	20.93	0.00
10yr3d	NSLRWCD C37	BASE	253.01	8.86	18.50	0	0.35	0.00	20.94	0.00
10yr3d	NSLRWCD C37	BASE	253.26	8.86	18.50	0	0.35	0.00	20.95	0.00
10yr3d	NSLRWCD C37	BASE	253.51	8.86	18.50	0	0.35	0.00	20.95	0.00
10yr3d	NSLRWCD C37	BASE	253.76	8.86	18.50	0	0.35	0.00	20.96	0.00
10yr3d	NSLRWCD C37	BASE	254.01	8.85	18.50	0	0.35	0.00	20.97	0.00
10yr3d	NSLRWCD C37	BASE	254.26	8.85	18.50	0	0.35	0.00	20.98	0.00
10yr3d	NSLRWCD C37	BASE	254.51	8.85	18.50	0	0.35	0.00	20.98	0.00
10yr3d	NSLRWCD C37	BASE	254.76	8.85	18.50	0	0.35	0.00	20.99	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	255.01	8.84	18.50	0	0.35	0.00	21.00	0.00
10yr3d	NSLRWCD C37	BASE	255.26	8.84	18.50	0	0.35	0.00	21.01	0.00
10yr3d	NSLRWCD C37	BASE	255.51	8.84	18.50	0	0.35	0.00	21.01	0.00
10yr3d	NSLRWCD C37	BASE	255.76	8.84	18.50	0	0.35	0.00	21.02	0.00
10yr3d	NSLRWCD C37	BASE	256.01	8.83	18.50	0	0.35	0.00	21.03	0.00
10yr3d	NSLRWCD C37	BASE	256.26	8.83	18.50	0	0.35	0.00	21.03	0.00
10yr3d	NSLRWCD C37	BASE	256.51	8.83	18.50	0	0.35	0.00	21.04	0.00
10yr3d	NSLRWCD C37	BASE	256.76	8.83	18.50	0	0.35	0.00	21.05	0.00
10yr3d	NSLRWCD C37	BASE	257.01	8.82	18.50	0	0.35	0.00	21.06	0.00
10yr3d	NSLRWCD C37	BASE	257.26	8.82	18.50	0	0.35	0.00	21.06	0.00
10yr3d	NSLRWCD C37	BASE	257.51	8.82	18.50	0	0.35	0.00	21.07	0.00
10yr3d	NSLRWCD C37	BASE	257.76	8.82	18.50	0	0.35	0.00	21.08	0.00
10yr3d	NSLRWCD C37	BASE	258.01	8.81	18.50	0	0.34	0.00	21.08	0.00
10yr3d	NSLRWCD C37	BASE	258.26	8.81	18.50	0	0.34	0.00	21.09	0.00
10yr3d	NSLRWCD C37	BASE	258.51	8.81	18.50	0	0.34	0.00	21.10	0.00
10yr3d	NSLRWCD C37	BASE	258.76	8.81	18.50	0	0.34	0.00	21.11	0.00
10yr3d	NSLRWCD C37	BASE	259.01	8.80	18.50	0	0.34	0.00	21.11	0.00
10yr3d	NSLRWCD C37	BASE	259.26	8.80	18.50	0	0.34	0.00	21.12	0.00
10yr3d	NSLRWCD C37	BASE	259.51	8.80	18.50	0	0.34	0.00	21.13	0.00
10yr3d	NSLRWCD C37	BASE	259.76	8.80	18.50	0	0.34	0.00	21.13	0.00
10yr3d	NSLRWCD C37	BASE	260.01	8.79	18.50	0	0.34	0.00	21.14	0.00
10yr3d	NSLRWCD C37	BASE	260.26	8.79	18.50	0	0.34	0.00	21.15	0.00
10yr3d	NSLRWCD C37	BASE	260.51	8.79	18.50	0	0.34	0.00	21.15	0.00
10yr3d	NSLRWCD C37	BASE	260.76	8.79	18.50	0	0.34	0.00	21.16	0.00
10yr3d	NSLRWCD C37	BASE	261.01	8.78	18.50	0	0.34	0.00	21.17	0.00
10yr3d	NSLRWCD C37	BASE	261.26	8.78	18.50	0	0.34	0.00	21.18	0.00
10yr3d	NSLRWCD C37	BASE	261.51	8.78	18.50	0	0.34	0.00	21.18	0.00
10yr3d	NSLRWCD C37	BASE	261.76	8.78	18.50	0	0.34	0.00	21.19	0.00
10yr3d	NSLRWCD C37	BASE	262.01	8.77	18.50	0	0.34	0.00	21.20	0.00
10yr3d	NSLRWCD C37	BASE	262.26	8.77	18.50	0	0.34	0.00	21.20	0.00
10yr3d	NSLRWCD C37	BASE	262.51	8.77	18.50	0	0.34	0.00	21.21	0.00
10yr3d	NSLRWCD C37	BASE	262.76	8.77	18.50	0	0.34	0.00	21.22	0.00
10yr3d	NSLRWCD C37	BASE	263.01	8.76	18.50	0	0.34	0.00	21.22	0.00
10yr3d	NSLRWCD C37	BASE	263.26	8.76	18.50	0	0.33	0.00	21.23	0.00
10yr3d	NSLRWCD C37	BASE	263.51	8.76	18.50	0	0.33	0.00	21.24	0.00
10yr3d	NSLRWCD C37	BASE	263.76	8.76	18.50	0	0.33	0.00	21.25	0.00
10yr3d	NSLRWCD C37	BASE	264.01	8.75	18.50	0	0.33	0.00	21.25	0.00
10yr3d	NSLRWCD C37	BASE	264.26	8.75	18.50	0	0.33	0.00	21.26	0.00
10yr3d	NSLRWCD C37	BASE	264.51	8.75	18.50	0	0.33	0.00	21.27	0.00
10yr3d	NSLRWCD C37	BASE	264.76	8.75	18.50	0	0.33	0.00	21.27	0.00
10yr3d	NSLRWCD C37	BASE	265.01	8.74	18.50	0	0.33	0.00	21.28	0.00
10yr3d	NSLRWCD C37	BASE	265.26	8.74	18.50	0	0.33	0.00	21.29	0.00
10yr3d	NSLRWCD C37	BASE	265.51	8.74	18.50	0	0.33	0.00	21.29	0.00
10yr3d	NSLRWCD C37	BASE	265.76	8.74	18.50	0	0.33	0.00	21.30	0.00
10yr3d	NSLRWCD C37	BASE	266.01	8.73	18.50	0	0.33	0.00	21.31	0.00
10yr3d	NSLRWCD C37	BASE	266.26	8.73	18.50	0	0.33	0.00	21.31	0.00
10yr3d	NSLRWCD C37	BASE	266.51	8.73	18.50	0	0.33	0.00	21.32	0.00
10yr3d	NSLRWCD C37	BASE	266.76	8.73	18.50	0	0.33	0.00	21.33	0.00
10yr3d	NSLRWCD C37	BASE	267.01	8.72	18.50	0	0.33	0.00	21.33	0.00
10yr3d	NSLRWCD C37	BASE	267.26	8.72	18.50	0	0.33	0.00	21.34	0.00
10yr3d	NSLRWCD C37	BASE	267.51	8.72	18.50	0	0.33	0.00	21.35	0.00
10yr3d	NSLRWCD C37	BASE	267.76	8.72	18.50	0	0.33	0.00	21.35	0.00
10yr3d	NSLRWCD C37	BASE	268.01	8.71	18.50	0	0.33	0.00	21.36	0.00
10yr3d	NSLRWCD C37	BASE	268.26	8.71	18.50	0	0.33	0.00	21.37	0.00
10yr3d	NSLRWCD C37	BASE	268.51	8.71	18.50	0	0.33	0.00	21.37	0.00
10yr3d	NSLRWCD C37	BASE	268.76	8.71	18.50	0	0.32	0.00	21.38	0.00
10yr3d	NSLRWCD C37	BASE	269.01	8.70	18.50	0	0.32	0.00	21.39	0.00
10yr3d	NSLRWCD C37	BASE	269.26	8.70	18.50	0	0.32	0.00	21.39	0.00
10yr3d	NSLRWCD C37	BASE	269.51	8.70	18.50	0	0.32	0.00	21.40	0.00
10yr3d	NSLRWCD C37	BASE	269.76	8.69	18.50	0	0.32	0.00	21.41	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	270.01	8.69	18.50	0	0.32	0.00	21.42	0.00
10yr3d	NSLRWCD C37	BASE	270.26	8.69	18.50	0	0.32	0.00	21.42	0.00
10yr3d	NSLRWCD C37	BASE	270.51	8.69	18.50	0	0.32	0.00	21.43	0.00
10yr3d	NSLRWCD C37	BASE	270.76	8.68	18.50	0	0.32	0.00	21.43	0.00
10yr3d	NSLRWCD C37	BASE	271.01	8.68	18.50	0	0.32	0.00	21.44	0.00
10yr3d	NSLRWCD C37	BASE	271.26	8.68	18.50	0	0.32	0.00	21.45	0.00
10yr3d	NSLRWCD C37	BASE	271.51	8.68	18.50	0	0.32	0.00	21.45	0.00
10yr3d	NSLRWCD C37	BASE	271.76	8.67	18.50	0	0.32	0.00	21.46	0.00
10yr3d	NSLRWCD C37	BASE	272.01	8.67	18.50	0	0.32	0.00	21.47	0.00
10yr3d	NSLRWCD C37	BASE	272.26	8.67	18.50	0	0.32	0.00	21.47	0.00
10yr3d	NSLRWCD C37	BASE	272.51	8.67	18.50	0	0.32	0.00	21.48	0.00
10yr3d	NSLRWCD C37	BASE	272.76	8.66	18.50	0	0.32	0.00	21.49	0.00
10yr3d	NSLRWCD C37	BASE	273.01	8.66	18.50	0	0.32	0.00	21.49	0.00
10yr3d	NSLRWCD C37	BASE	273.26	8.66	18.50	0	0.32	0.00	21.50	0.00
10yr3d	NSLRWCD C37	BASE	273.51	8.66	18.50	0	0.32	0.00	21.51	0.00
10yr3d	NSLRWCD C37	BASE	273.76	8.65	18.50	0	0.32	0.00	21.51	0.00
10yr3d	NSLRWCD C37	BASE	274.01	8.65	18.50	0	0.32	0.00	21.52	0.00
10yr3d	NSLRWCD C37	BASE	274.26	8.65	18.50	0	0.31	0.00	21.53	0.00
10yr3d	NSLRWCD C37	BASE	274.51	8.65	18.50	0	0.31	0.00	21.53	0.00
10yr3d	NSLRWCD C37	BASE	274.76	8.64	18.50	0	0.31	0.00	21.54	0.00
10yr3d	NSLRWCD C37	BASE	275.01	8.64	18.50	0	0.31	0.00	21.55	0.00
10yr3d	NSLRWCD C37	BASE	275.26	8.64	18.50	0	0.31	0.00	21.55	0.00
10yr3d	NSLRWCD C37	BASE	275.51	8.64	18.50	0	0.31	0.00	21.56	0.00
10yr3d	NSLRWCD C37	BASE	275.76	8.63	18.50	0	0.31	0.00	21.57	0.00
10yr3d	NSLRWCD C37	BASE	276.01	8.63	18.50	0	0.31	0.00	21.57	0.00
10yr3d	NSLRWCD C37	BASE	276.26	8.63	18.50	0	0.31	0.00	21.58	0.00
10yr3d	NSLRWCD C37	BASE	276.51	8.63	18.50	0	0.31	0.00	21.59	0.00
10yr3d	NSLRWCD C37	BASE	276.76	8.62	18.50	0	0.31	0.00	21.59	0.00
10yr3d	NSLRWCD C37	BASE	277.01	8.62	18.50	0	0.31	0.00	21.60	0.00
10yr3d	NSLRWCD C37	BASE	277.26	8.62	18.50	0	0.31	0.00	21.60	0.00
10yr3d	NSLRWCD C37	BASE	277.51	8.62	18.50	0	0.31	0.00	21.61	0.00
10yr3d	NSLRWCD C37	BASE	277.76	8.61	18.50	0	0.31	0.00	21.62	0.00
10yr3d	NSLRWCD C37	BASE	278.01	8.61	18.50	0	0.31	0.00	21.62	0.00
10yr3d	NSLRWCD C37	BASE	278.26	8.61	18.50	0	0.31	0.00	21.63	0.00
10yr3d	NSLRWCD C37	BASE	278.51	8.61	18.50	0	0.31	0.00	21.64	0.00
10yr3d	NSLRWCD C37	BASE	278.76	8.60	18.50	0	0.31	0.00	21.64	0.00
10yr3d	NSLRWCD C37	BASE	279.01	8.60	18.50	0	0.31	0.00	21.65	0.00
10yr3d	NSLRWCD C37	BASE	279.26	8.60	18.50	0	0.31	0.00	21.66	0.00
10yr3d	NSLRWCD C37	BASE	279.51	8.60	18.50	0	0.31	0.00	21.66	0.00
10yr3d	NSLRWCD C37	BASE	279.76	8.59	18.50	0	0.30	0.00	21.67	0.00
10yr3d	NSLRWCD C37	BASE	280.01	8.59	18.50	0	0.30	0.00	21.67	0.00
10yr3d	NSLRWCD C37	BASE	280.26	8.59	18.50	0	0.30	0.00	21.68	0.00
10yr3d	NSLRWCD C37	BASE	280.51	8.59	18.50	0	0.30	0.00	21.69	0.00
10yr3d	NSLRWCD C37	BASE	280.76	8.58	18.50	0	0.30	0.00	21.69	0.00
10yr3d	NSLRWCD C37	BASE	281.01	8.58	18.50	0	0.30	0.00	21.70	0.00
10yr3d	NSLRWCD C37	BASE	281.26	8.58	18.50	0	0.30	0.00	21.71	0.00
10yr3d	NSLRWCD C37	BASE	281.51	8.58	18.50	0	0.30	0.00	21.71	0.00
10yr3d	NSLRWCD C37	BASE	281.76	8.57	18.50	0	0.30	0.00	21.72	0.00
10yr3d	NSLRWCD C37	BASE	282.01	8.57	18.50	0	0.30	0.00	21.72	0.00
10yr3d	NSLRWCD C37	BASE	282.26	8.57	18.50	0	0.30	0.00	21.73	0.00
10yr3d	NSLRWCD C37	BASE	282.51	8.57	18.50	0	0.30	0.00	21.74	0.00
10yr3d	NSLRWCD C37	BASE	282.76	8.56	18.50	0	0.30	0.00	21.74	0.00
10yr3d	NSLRWCD C37	BASE	283.01	8.56	18.50	0	0.30	0.00	21.75	0.00
10yr3d	NSLRWCD C37	BASE	283.26	8.56	18.50	0	0.30	0.00	21.75	0.00
10yr3d	NSLRWCD C37	BASE	283.51	8.56	18.50	0	0.30	0.00	21.76	0.00
10yr3d	NSLRWCD C37	BASE	283.76	8.55	18.50	0	0.30	0.00	21.77	0.00
10yr3d	NSLRWCD C37	BASE	284.01	8.55	18.50	0	0.30	0.00	21.77	0.00
10yr3d	NSLRWCD C37	BASE	284.26	8.55	18.50	0	0.30	0.00	21.78	0.00
10yr3d	NSLRWCD C37	BASE	284.51	8.55	18.50	0	0.30	0.00	21.79	0.00
10yr3d	NSLRWCD C37	BASE	284.76	8.54	18.50	0	0.30	0.00	21.79	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	285.01	8.54	18.50	0	0.29	0.00	21.80	0.00
10yr3d	NSLRWCD C37	BASE	285.26	8.54	18.50	0	0.29	0.00	21.80	0.00
10yr3d	NSLRWCD C37	BASE	285.51	8.54	18.50	0	0.29	0.00	21.81	0.00
10yr3d	NSLRWCD C37	BASE	285.76	8.53	18.50	0	0.29	0.00	21.82	0.00
10yr3d	NSLRWCD C37	BASE	286.01	8.53	18.50	0	0.29	0.00	21.82	0.00
10yr3d	NSLRWCD C37	BASE	286.26	8.53	18.50	0	0.29	0.00	21.83	0.00
10yr3d	NSLRWCD C37	BASE	286.51	8.53	18.50	0	0.29	0.00	21.83	0.00
10yr3d	NSLRWCD C37	BASE	286.76	8.52	18.50	0	0.29	0.00	21.84	0.00
10yr3d	NSLRWCD C37	BASE	287.01	8.52	18.50	0	0.29	0.00	21.85	0.00
10yr3d	NSLRWCD C37	BASE	287.26	8.52	18.50	0	0.29	0.00	21.85	0.00
10yr3d	NSLRWCD C37	BASE	287.51	8.52	18.50	0	0.29	0.00	21.86	0.00
10yr3d	NSLRWCD C37	BASE	287.76	8.51	18.50	0	0.29	0.00	21.86	0.00
10yr3d	NSLRWCD C37	BASE	288.01	8.51	18.50	0	0.29	0.00	21.87	0.00
10yr3d	NSLRWCD C37	BASE	288.26	8.51	18.50	0	0.29	0.00	21.88	0.00
10yr3d	NSLRWCD C37	BASE	288.51	8.50	18.50	0	0.29	0.00	21.88	0.00
10yr3d	NSLRWCD C37	BASE	288.76	8.50	18.50	0	0.29	0.00	21.89	0.00
10yr3d	NSLRWCD C37	BASE	289.01	8.50	18.50	0	0.29	0.00	21.89	0.00
10yr3d	NSLRWCD C37	BASE	289.26	8.50	18.50	0	0.29	0.00	21.90	0.00
10yr3d	NSLRWCD C37	BASE	289.51	8.49	18.50	0	0.29	0.00	21.91	0.00
10yr3d	NSLRWCD C37	BASE	289.76	8.49	18.50	0	0.29	0.00	21.91	0.00
10yr3d	NSLRWCD C37	BASE	290.01	8.49	18.50	0	0.29	0.00	21.92	0.00
10yr3d	NSLRWCD C37	BASE	290.26	8.49	18.50	0	0.29	0.00	21.92	0.00
10yr3d	NSLRWCD C37	BASE	290.51	8.48	18.50	0	0.28	0.00	21.93	0.00
10yr3d	NSLRWCD C37	BASE	290.76	8.48	18.50	0	0.28	0.00	21.94	0.00
10yr3d	NSLRWCD C37	BASE	291.01	8.48	18.50	0	0.28	0.00	21.94	0.00
10yr3d	NSLRWCD C37	BASE	291.26	8.48	18.50	0	0.28	0.00	21.95	0.00
10yr3d	NSLRWCD C37	BASE	291.51	8.47	18.50	0	0.28	0.00	21.95	0.00
10yr3d	NSLRWCD C37	BASE	291.76	8.47	18.50	0	0.28	0.00	21.96	0.00
10yr3d	NSLRWCD C37	BASE	292.01	8.47	18.50	0	0.28	0.00	21.96	0.00
10yr3d	NSLRWCD C37	BASE	292.26	8.47	18.50	0	0.28	0.00	21.97	0.00
10yr3d	NSLRWCD C37	BASE	292.51	8.46	18.50	0	0.28	0.00	21.98	0.00
10yr3d	NSLRWCD C37	BASE	292.76	8.46	18.50	0	0.28	0.00	21.98	0.00
10yr3d	NSLRWCD C37	BASE	293.01	8.46	18.50	0	0.28	0.00	21.99	0.00
10yr3d	NSLRWCD C37	BASE	293.26	8.46	18.50	0	0.28	0.00	21.99	0.00
10yr3d	NSLRWCD C37	BASE	293.51	8.45	18.50	0	0.28	0.00	22.00	0.00
10yr3d	NSLRWCD C37	BASE	293.76	8.45	18.50	0	0.28	0.00	22.01	0.00
10yr3d	NSLRWCD C37	BASE	294.01	8.45	18.50	0	0.28	0.00	22.01	0.00
10yr3d	NSLRWCD C37	BASE	294.26	8.45	18.50	0	0.28	0.00	22.02	0.00
10yr3d	NSLRWCD C37	BASE	294.51	8.44	18.50	0	0.28	0.00	22.02	0.00
10yr3d	NSLRWCD C37	BASE	294.76	8.44	18.50	0	0.28	0.00	22.03	0.00
10yr3d	NSLRWCD C37	BASE	295.01	8.44	18.50	0	0.28	0.00	22.03	0.00
10yr3d	NSLRWCD C37	BASE	295.26	8.44	18.50	0	0.28	0.00	22.04	0.00
10yr3d	NSLRWCD C37	BASE	295.51	8.43	18.50	0	0.28	0.00	22.05	0.00
10yr3d	NSLRWCD C37	BASE	295.76	8.43	18.50	0	0.28	0.00	22.05	0.00
10yr3d	NSLRWCD C37	BASE	296.01	8.43	18.50	0	0.27	0.00	22.06	0.00
10yr3d	NSLRWCD C37	BASE	296.26	8.43	18.50	0	0.27	0.00	22.06	0.00
10yr3d	NSLRWCD C37	BASE	296.51	8.42	18.50	0	0.27	0.00	22.07	0.00
10yr3d	NSLRWCD C37	BASE	296.76	8.42	18.50	0	0.27	0.00	22.07	0.00
10yr3d	NSLRWCD C37	BASE	297.01	8.42	18.50	0	0.27	0.00	22.08	0.00
10yr3d	NSLRWCD C37	BASE	297.26	8.42	18.50	0	0.27	0.00	22.08	0.00
10yr3d	NSLRWCD C37	BASE	297.51	8.41	18.50	0	0.27	0.00	22.09	0.00
10yr3d	NSLRWCD C37	BASE	297.76	8.41	18.50	0	0.27	0.00	22.10	0.00
10yr3d	NSLRWCD C37	BASE	298.01	8.41	18.50	0	0.27	0.00	22.10	0.00
10yr3d	NSLRWCD C37	BASE	298.26	8.41	18.50	0	0.27	0.00	22.11	0.00
10yr3d	NSLRWCD C37	BASE	298.51	8.40	18.50	0	0.27	0.00	22.11	0.00
10yr3d	NSLRWCD C37	BASE	298.76	8.40	18.50	0	0.27	0.00	22.12	0.00
10yr3d	NSLRWCD C37	BASE	299.01	8.40	18.50	0	0.27	0.00	22.12	0.00
10yr3d	NSLRWCD C37	BASE	299.26	8.40	18.50	0	0.27	0.00	22.13	0.00
10yr3d	NSLRWCD C37	BASE	299.51	8.39	18.50	0	0.27	0.00	22.14	0.00
10yr3d	NSLRWCD C37	BASE	299.76	8.39	18.50	0	0.27	0.00	22.14	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	300.01	8.39	18.50	0	0.27	0.00	22.15	0.00
10yr3d	NSLRWCD C37	BASE	300.26	8.39	18.50	0	0.27	0.00	22.15	0.00
10yr3d	NSLRWCD C37	BASE	300.51	8.38	18.50	0	0.27	0.00	22.16	0.00
10yr3d	NSLRWCD C37	BASE	300.76	8.38	18.50	0	0.27	0.00	22.16	0.00
10yr3d	NSLRWCD C37	BASE	301.01	8.38	18.50	0	0.27	0.00	22.17	0.00
10yr3d	NSLRWCD C37	BASE	301.26	8.38	18.50	0	0.26	0.00	22.17	0.00
10yr3d	NSLRWCD C37	BASE	301.51	8.37	18.50	0	0.26	0.00	22.18	0.00
10yr3d	NSLRWCD C37	BASE	301.76	8.37	18.50	0	0.26	0.00	22.18	0.00
10yr3d	NSLRWCD C37	BASE	302.01	8.37	18.50	0	0.26	0.00	22.19	0.00
10yr3d	NSLRWCD C37	BASE	302.26	8.37	18.50	0	0.26	0.00	22.20	0.00
10yr3d	NSLRWCD C37	BASE	302.51	8.36	18.50	0	0.26	0.00	22.20	0.00
10yr3d	NSLRWCD C37	BASE	302.76	8.36	18.50	0	0.26	0.00	22.21	0.00
10yr3d	NSLRWCD C37	BASE	303.01	8.36	18.50	0	0.26	0.00	22.21	0.00
10yr3d	NSLRWCD C37	BASE	303.26	8.36	18.50	0	0.26	0.00	22.22	0.00
10yr3d	NSLRWCD C37	BASE	303.51	8.35	18.50	0	0.26	0.00	22.22	0.00
10yr3d	NSLRWCD C37	BASE	303.76	8.35	18.50	0	0.26	0.00	22.23	0.00
10yr3d	NSLRWCD C37	BASE	304.01	8.35	18.50	0	0.26	0.00	22.23	0.00
10yr3d	NSLRWCD C37	BASE	304.26	8.35	18.50	0	0.26	0.00	22.24	0.00
10yr3d	NSLRWCD C37	BASE	304.51	8.34	18.50	0	0.26	0.00	22.24	0.00
10yr3d	NSLRWCD C37	BASE	304.76	8.34	18.50	0	0.26	0.00	22.25	0.00
10yr3d	NSLRWCD C37	BASE	305.01	8.34	18.50	0	0.26	0.00	22.25	0.00
10yr3d	NSLRWCD C37	BASE	305.26	8.34	18.50	0	0.26	0.00	22.26	0.00
10yr3d	NSLRWCD C37	BASE	305.51	8.33	18.50	0	0.26	0.00	22.27	0.00
10yr3d	NSLRWCD C37	BASE	305.76	8.33	18.50	0	0.26	0.00	22.27	0.00
10yr3d	NSLRWCD C37	BASE	306.01	8.33	18.50	0	0.26	0.00	22.28	0.00
10yr3d	NSLRWCD C37	BASE	306.26	8.32	18.50	0	0.26	0.00	22.28	0.00
10yr3d	NSLRWCD C37	BASE	306.51	8.32	18.50	0	0.26	0.00	22.29	0.00
10yr3d	NSLRWCD C37	BASE	306.76	8.32	18.50	0	0.25	0.00	22.29	0.00
10yr3d	NSLRWCD C37	BASE	307.01	8.32	18.50	0	0.25	0.00	22.30	0.00
10yr3d	NSLRWCD C37	BASE	307.26	8.31	18.50	0	0.25	0.00	22.30	0.00
10yr3d	NSLRWCD C37	BASE	307.51	8.31	18.50	0	0.25	0.00	22.31	0.00
10yr3d	NSLRWCD C37	BASE	307.76	8.31	18.50	0	0.25	0.00	22.31	0.00
10yr3d	NSLRWCD C37	BASE	308.01	8.31	18.50	0	0.25	0.00	22.32	0.00
10yr3d	NSLRWCD C37	BASE	308.26	8.30	18.50	0	0.25	0.00	22.32	0.00
10yr3d	NSLRWCD C37	BASE	308.51	8.30	18.50	0	0.25	0.00	22.33	0.00
10yr3d	NSLRWCD C37	BASE	308.76	8.30	18.50	0	0.25	0.00	22.33	0.00
10yr3d	NSLRWCD C37	BASE	309.01	8.30	18.50	0	0.25	0.00	22.34	0.00
10yr3d	NSLRWCD C37	BASE	309.26	8.29	18.50	0	0.25	0.00	22.34	0.00
10yr3d	NSLRWCD C37	BASE	309.51	8.29	18.50	0	0.25	0.00	22.35	0.00
10yr3d	NSLRWCD C37	BASE	309.76	8.29	18.50	0	0.25	0.00	22.35	0.00
10yr3d	NSLRWCD C37	BASE	310.01	8.29	18.50	0	0.25	0.00	22.36	0.00
10yr3d	NSLRWCD C37	BASE	310.26	8.28	18.50	0	0.25	0.00	22.36	0.00
10yr3d	NSLRWCD C37	BASE	310.51	8.28	18.50	0	0.25	0.00	22.37	0.00
10yr3d	NSLRWCD C37	BASE	310.76	8.28	18.50	0	0.25	0.00	22.37	0.00
10yr3d	NSLRWCD C37	BASE	311.01	8.28	18.50	0	0.25	0.00	22.38	0.00
10yr3d	NSLRWCD C37	BASE	311.26	8.27	18.50	0	0.25	0.00	22.38	0.00
10yr3d	NSLRWCD C37	BASE	311.51	8.27	18.50	0	0.25	0.00	22.39	0.00
10yr3d	NSLRWCD C37	BASE	311.76	8.27	18.50	0	0.25	0.00	22.40	0.00
10yr3d	NSLRWCD C37	BASE	312.01	8.27	18.50	0	0.24	0.00	22.40	0.00
10yr3d	NSLRWCD C37	BASE	312.26	8.26	18.50	0	0.24	0.00	22.41	0.00
10yr3d	NSLRWCD C37	BASE	312.51	8.26	18.50	0	0.24	0.00	22.41	0.00
10yr3d	NSLRWCD C37	BASE	312.76	8.26	18.50	0	0.24	0.00	22.42	0.00
10yr3d	NSLRWCD C37	BASE	313.01	8.26	18.50	0	0.24	0.00	22.42	0.00
10yr3d	NSLRWCD C37	BASE	313.26	8.25	18.50	0	0.24	0.00	22.43	0.00
10yr3d	NSLRWCD C37	BASE	313.51	8.25	18.50	0	0.24	0.00	22.43	0.00
10yr3d	NSLRWCD C37	BASE	313.76	8.25	18.50	0	0.24	0.00	22.44	0.00
10yr3d	NSLRWCD C37	BASE	314.01	8.25	18.50	0	0.24	0.00	22.44	0.00
10yr3d	NSLRWCD C37	BASE	314.26	8.24	18.50	0	0.24	0.00	22.45	0.00
10yr3d	NSLRWCD C37	BASE	314.51	8.24	18.50	0	0.24	0.00	22.45	0.00
10yr3d	NSLRWCD C37	BASE	314.76	8.24	18.50	0	0.24	0.00	22.46	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	315.01	8.24	18.50	0	0.24	0.00	22.46	0.00
10yr3d	NSLRWCD C37	BASE	315.26	8.23	18.50	0	0.24	0.00	22.47	0.00
10yr3d	NSLRWCD C37	BASE	315.51	8.23	18.50	0	0.24	0.00	22.47	0.00
10yr3d	NSLRWCD C37	BASE	315.76	8.23	18.50	0	0.24	0.00	22.48	0.00
10yr3d	NSLRWCD C37	BASE	316.01	8.23	18.50	0	0.24	0.00	22.48	0.00
10yr3d	NSLRWCD C37	BASE	316.26	8.22	18.50	0	0.24	0.00	22.48	0.00
10yr3d	NSLRWCD C37	BASE	316.51	8.22	18.50	0	0.24	0.00	22.49	0.00
10yr3d	NSLRWCD C37	BASE	316.76	8.22	18.50	0	0.24	0.00	22.49	0.00
10yr3d	NSLRWCD C37	BASE	317.01	8.22	18.50	0	0.24	0.00	22.50	0.00
10yr3d	NSLRWCD C37	BASE	317.26	8.21	18.50	0	0.24	0.00	22.50	0.00
10yr3d	NSLRWCD C37	BASE	317.51	8.21	18.50	0	0.23	0.00	22.51	0.00
10yr3d	NSLRWCD C37	BASE	317.76	8.21	18.50	0	0.23	0.00	22.51	0.00
10yr3d	NSLRWCD C37	BASE	318.01	8.21	18.50	0	0.23	0.00	22.52	0.00
10yr3d	NSLRWCD C37	BASE	318.26	8.20	18.50	0	0.23	0.00	22.52	0.00
10yr3d	NSLRWCD C37	BASE	318.51	8.20	18.50	0	0.23	0.00	22.53	0.00
10yr3d	NSLRWCD C37	BASE	318.76	8.20	18.50	0	0.23	0.00	22.53	0.00
10yr3d	NSLRWCD C37	BASE	319.01	8.20	18.50	0	0.23	0.00	22.54	0.00
10yr3d	NSLRWCD C37	BASE	319.26	8.19	18.50	0	0.23	0.00	22.54	0.00
10yr3d	NSLRWCD C37	BASE	319.51	8.19	18.50	0	0.23	0.00	22.55	0.00
10yr3d	NSLRWCD C37	BASE	319.76	8.19	18.50	0	0.23	0.00	22.55	0.00
10yr3d	NSLRWCD C37	BASE	320.01	8.19	18.50	0	0.23	0.00	22.56	0.00
10yr3d	NSLRWCD C37	BASE	320.26	8.18	18.50	0	0.23	0.00	22.56	0.00
10yr3d	NSLRWCD C37	BASE	320.51	8.18	18.50	0	0.23	0.00	22.57	0.00
10yr3d	NSLRWCD C37	BASE	320.76	8.18	18.50	0	0.23	0.00	22.57	0.00
10yr3d	NSLRWCD C37	BASE	321.01	8.18	18.50	0	0.23	0.00	22.58	0.00
10yr3d	NSLRWCD C37	BASE	321.26	8.17	18.50	0	0.23	0.00	22.58	0.00
10yr3d	NSLRWCD C37	BASE	321.51	8.17	18.50	0	0.23	0.00	22.59	0.00
10yr3d	NSLRWCD C37	BASE	321.76	8.17	18.50	0	0.23	0.00	22.59	0.00
10yr3d	NSLRWCD C37	BASE	322.01	8.17	18.50	0	0.23	0.00	22.59	0.00
10yr3d	NSLRWCD C37	BASE	322.26	8.16	18.50	0	0.23	0.00	22.60	0.00
10yr3d	NSLRWCD C37	BASE	322.51	8.16	18.50	0	0.23	0.00	22.60	0.00
10yr3d	NSLRWCD C37	BASE	322.76	8.16	18.50	0	0.23	0.00	22.61	0.00
10yr3d	NSLRWCD C37	BASE	323.01	8.16	18.50	0	0.22	0.00	22.61	0.00
10yr3d	NSLRWCD C37	BASE	323.26	8.15	18.50	0	0.22	0.00	22.62	0.00
10yr3d	NSLRWCD C37	BASE	323.51	8.15	18.50	0	0.22	0.00	22.62	0.00
10yr3d	NSLRWCD C37	BASE	323.76	8.15	18.50	0	0.22	0.00	22.63	0.00
10yr3d	NSLRWCD C37	BASE	324.01	8.14	18.50	0	0.22	0.00	22.63	0.00
10yr3d	NSLRWCD C37	BASE	324.26	8.14	18.50	0	0.22	0.00	22.64	0.00
10yr3d	NSLRWCD C37	BASE	324.51	8.14	18.50	0	0.22	0.00	22.64	0.00
10yr3d	NSLRWCD C37	BASE	324.76	8.14	18.50	0	0.22	0.00	22.65	0.00
10yr3d	NSLRWCD C37	BASE	325.01	8.13	18.50	0	0.22	0.00	22.65	0.00
10yr3d	NSLRWCD C37	BASE	325.26	8.13	18.50	0	0.22	0.00	22.65	0.00
10yr3d	NSLRWCD C37	BASE	325.51	8.13	18.50	0	0.22	0.00	22.66	0.00
10yr3d	NSLRWCD C37	BASE	325.76	8.13	18.50	0	0.22	0.00	22.66	0.00
10yr3d	NSLRWCD C37	BASE	326.01	8.12	18.50	0	0.22	0.00	22.67	0.00
10yr3d	NSLRWCD C37	BASE	326.26	8.12	18.50	0	0.22	0.00	22.67	0.00
10yr3d	NSLRWCD C37	BASE	326.51	8.12	18.50	0	0.22	0.00	22.68	0.00
10yr3d	NSLRWCD C37	BASE	326.76	8.12	18.50	0	0.22	0.00	22.68	0.00
10yr3d	NSLRWCD C37	BASE	327.01	8.11	18.50	0	0.22	0.00	22.69	0.00
10yr3d	NSLRWCD C37	BASE	327.26	8.11	18.50	0	0.22	0.00	22.69	0.00
10yr3d	NSLRWCD C37	BASE	327.51	8.11	18.50	0	0.22	0.00	22.70	0.00
10yr3d	NSLRWCD C37	BASE	327.76	8.11	18.50	0	0.22	0.00	22.70	0.00
10yr3d	NSLRWCD C37	BASE	328.01	8.10	18.50	0	0.22	0.00	22.70	0.00
10yr3d	NSLRWCD C37	BASE	328.26	8.10	18.50	0	0.21	0.00	22.71	0.00
10yr3d	NSLRWCD C37	BASE	328.51	8.10	18.50	0	0.21	0.00	22.71	0.00
10yr3d	NSLRWCD C37	BASE	328.76	8.10	18.50	0	0.21	0.00	22.72	0.00
10yr3d	NSLRWCD C37	BASE	329.01	8.09	18.50	0	0.21	0.00	22.72	0.00
10yr3d	NSLRWCD C37	BASE	329.26	8.09	18.50	0	0.21	0.00	22.73	0.00
10yr3d	NSLRWCD C37	BASE	329.51	8.09	18.50	0	0.21	0.00	22.73	0.00
10yr3d	NSLRWCD C37	BASE	329.76	8.09	18.50	0	0.21	0.00	22.74	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	330.01	8.08	18.50	0	0.21	0.00	22.74	0.00
10yr3d	NSLRWCD C37	BASE	330.26	8.08	18.50	0	0.21	0.00	22.74	0.00
10yr3d	NSLRWCD C37	BASE	330.51	8.08	18.50	0	0.21	0.00	22.75	0.00
10yr3d	NSLRWCD C37	BASE	330.76	8.08	18.50	0	0.21	0.00	22.75	0.00
10yr3d	NSLRWCD C37	BASE	331.01	8.07	18.50	0	0.21	0.00	22.76	0.00
10yr3d	NSLRWCD C37	BASE	331.26	8.07	18.50	0	0.21	0.00	22.76	0.00
10yr3d	NSLRWCD C37	BASE	331.51	8.07	18.50	0	0.21	0.00	22.77	0.00
10yr3d	NSLRWCD C37	BASE	331.76	8.07	18.50	0	0.21	0.00	22.77	0.00
10yr3d	NSLRWCD C37	BASE	332.01	8.06	18.50	0	0.21	0.00	22.77	0.00
10yr3d	NSLRWCD C37	BASE	332.26	8.06	18.50	0	0.21	0.00	22.78	0.00
10yr3d	NSLRWCD C37	BASE	332.51	8.06	18.50	0	0.21	0.00	22.78	0.00
10yr3d	NSLRWCD C37	BASE	332.76	8.06	18.50	0	0.21	0.00	22.79	0.00
10yr3d	NSLRWCD C37	BASE	333.01	8.05	18.50	0	0.21	0.00	22.79	0.00
10yr3d	NSLRWCD C37	BASE	333.26	8.05	18.50	0	0.21	0.00	22.80	0.00
10yr3d	NSLRWCD C37	BASE	333.51	8.05	18.50	0	0.20	0.00	22.80	0.00
10yr3d	NSLRWCD C37	BASE	333.76	8.05	18.50	0	0.20	0.00	22.80	0.00
10yr3d	NSLRWCD C37	BASE	334.01	8.04	18.50	0	0.20	0.00	22.81	0.00
10yr3d	NSLRWCD C37	BASE	334.26	8.04	18.50	0	0.20	0.00	22.81	0.00
10yr3d	NSLRWCD C37	BASE	334.51	8.04	18.50	0	0.20	0.00	22.82	0.00
10yr3d	NSLRWCD C37	BASE	334.76	8.04	18.50	0	0.20	0.00	22.82	0.00
10yr3d	NSLRWCD C37	BASE	335.01	8.03	18.50	0	0.20	0.00	22.83	0.00
10yr3d	NSLRWCD C37	BASE	335.26	8.03	18.50	0	0.20	0.00	22.83	0.00
10yr3d	NSLRWCD C37	BASE	335.51	8.03	18.50	0	0.20	0.00	22.83	0.00
10yr3d	NSLRWCD C37	BASE	335.76	8.03	18.50	0	0.20	0.00	22.84	0.00
10yr3d	NSLRWCD C37	BASE	336.01	8.02	18.50	0	0.20	0.00	22.84	0.00
10yr3d	NSLRWCD C37	BASE	336.26	8.02	18.50	0	0.20	0.00	22.85	0.00
10yr3d	NSLRWCD C37	BASE	336.51	8.02	18.50	0	0.20	0.00	22.85	0.00
10yr3d	NSLRWCD C37	BASE	336.76	8.02	18.50	0	0.20	0.00	22.85	0.00
10yr3d	NSLRWCD C37	BASE	337.01	8.01	18.50	0	0.20	0.00	22.86	0.00
10yr3d	NSLRWCD C37	BASE	337.26	8.01	18.50	0	0.19	0.00	22.86	0.00
10yr3d	NSLRWCD C37	BASE	337.51	8.01	18.50	0	0.19	0.00	22.87	0.00
10yr3d	NSLRWCD C37	BASE	337.76	8.01	18.50	0	0.19	0.00	22.87	0.00
10yr3d	NSLRWCD C37	BASE	338.01	8.00	18.50	0	0.19	0.00	22.87	0.00
10yr3d	NSLRWCD C37	BASE	338.26	8.00	18.50	0	0.19	0.00	22.88	0.00
10yr3d	NSLRWCD C37	BASE	338.51	8.00	18.50	0	0.19	0.00	22.88	0.00
10yr3d	NSLRWCD C37	BASE	338.76	8.00	18.50	0	0.19	0.00	22.89	0.00
10yr3d	NSLRWCD C37	BASE	339.01	7.99	18.50	0	0.19	0.00	22.89	0.00
10yr3d	NSLRWCD C37	BASE	339.26	7.99	18.50	0	0.19	0.00	22.89	0.00
10yr3d	NSLRWCD C37	BASE	339.51	7.99	18.50	0	0.19	0.00	22.90	0.00
10yr3d	NSLRWCD C37	BASE	339.76	7.99	18.50	0	0.19	0.00	22.90	0.00
10yr3d	NSLRWCD C37	BASE	340.01	7.98	18.50	0	0.19	0.00	22.91	0.00
10yr3d	NSLRWCD C37	BASE	340.26	7.98	18.50	0	0.19	0.00	22.91	0.00
10yr3d	NSLRWCD C37	BASE	340.51	7.98	18.50	0	0.18	0.00	22.91	0.00
10yr3d	NSLRWCD C37	BASE	340.76	7.98	18.50	0	0.18	0.00	22.92	0.00
10yr3d	NSLRWCD C37	BASE	341.01	7.97	18.50	0	0.18	0.00	22.92	0.00
10yr3d	NSLRWCD C37	BASE	341.26	7.97	18.50	0	0.18	0.00	22.92	0.00
10yr3d	NSLRWCD C37	BASE	341.51	7.97	18.50	0	0.18	0.00	22.93	0.00
10yr3d	NSLRWCD C37	BASE	341.76	7.96	18.50	0	0.18	0.00	22.93	0.00
10yr3d	NSLRWCD C37	BASE	342.01	7.96	18.50	0	0.18	0.00	22.94	0.00
10yr3d	NSLRWCD C37	BASE	342.26	7.96	18.50	0	0.18	0.00	22.94	0.00
10yr3d	NSLRWCD C37	BASE	342.51	7.96	18.50	0	0.18	0.00	22.94	0.00
10yr3d	NSLRWCD C37	BASE	342.76	7.95	18.50	0	0.18	0.00	22.95	0.00
10yr3d	NSLRWCD C37	BASE	343.01	7.95	18.50	0	0.18	0.00	22.95	0.00
10yr3d	NSLRWCD C37	BASE	343.26	7.95	18.50	0	0.18	0.00	22.95	0.00
10yr3d	NSLRWCD C37	BASE	343.51	7.95	18.50	0	0.18	0.00	22.96	0.00
10yr3d	NSLRWCD C37	BASE	343.76	7.94	18.50	0	0.18	0.00	22.96	0.00
10yr3d	NSLRWCD C37	BASE	344.01	7.94	18.50	0	0.17	0.00	22.96	0.00
10yr3d	NSLRWCD C37	BASE	344.26	7.94	18.50	0	0.17	0.00	22.97	0.00
10yr3d	NSLRWCD C37	BASE	344.51	7.94	18.50	0	0.17	0.00	22.97	0.00
10yr3d	NSLRWCD C37	BASE	344.76	7.93	18.50	0	0.17	0.00	22.98	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	345.01	7.93	18.50	0	0.17	0.00	22.98	0.00
10yr3d	NSLRWCD C37	BASE	345.26	7.93	18.50	0	0.17	0.00	22.98	0.00
10yr3d	NSLRWCD C37	BASE	345.51	7.93	18.50	0	0.17	0.00	22.99	0.00
10yr3d	NSLRWCD C37	BASE	345.76	7.92	18.50	0	0.17	0.00	22.99	0.00
10yr3d	NSLRWCD C37	BASE	346.01	7.92	18.50	0	0.17	0.00	22.99	0.00
10yr3d	NSLRWCD C37	BASE	346.26	7.92	18.50	0	0.17	0.00	23.00	0.00
10yr3d	NSLRWCD C37	BASE	346.51	7.92	18.50	0	0.17	0.00	23.00	0.00
10yr3d	NSLRWCD C37	BASE	346.76	7.91	18.50	0	0.17	0.00	23.00	0.00
10yr3d	NSLRWCD C37	BASE	347.01	7.91	18.50	0	0.17	0.00	23.01	0.00
10yr3d	NSLRWCD C37	BASE	347.26	7.91	18.50	0	0.17	0.00	23.01	0.00
10yr3d	NSLRWCD C37	BASE	347.51	7.91	18.50	0	0.17	0.00	23.01	0.00
10yr3d	NSLRWCD C37	BASE	347.76	7.90	18.50	0	0.16	0.00	23.02	0.00
10yr3d	NSLRWCD C37	BASE	348.01	7.90	18.50	0	0.16	0.00	23.02	0.00
10yr3d	NSLRWCD C37	BASE	348.26	7.90	18.50	0	0.16	0.00	23.02	0.00
10yr3d	NSLRWCD C37	BASE	348.51	7.90	18.50	0	0.16	0.00	23.03	0.00
10yr3d	NSLRWCD C37	BASE	348.76	7.89	18.50	0	0.16	0.00	23.03	0.00
10yr3d	NSLRWCD C37	BASE	349.01	7.89	18.50	0	0.16	0.00	23.03	0.00
10yr3d	NSLRWCD C37	BASE	349.26	7.89	18.50	0	0.16	0.00	23.04	0.00
10yr3d	NSLRWCD C37	BASE	349.51	7.89	18.50	0	0.16	0.00	23.04	0.00
10yr3d	NSLRWCD C37	BASE	349.76	7.88	18.50	0	0.16	0.00	23.04	0.00
10yr3d	NSLRWCD C37	BASE	350.01	7.88	18.50	0	0.16	0.00	23.05	0.00
10yr3d	NSLRWCD C37	BASE	350.26	7.88	18.50	0	0.16	0.00	23.05	0.00
10yr3d	NSLRWCD C37	BASE	350.51	7.88	18.50	0	0.16	0.00	23.05	0.00
10yr3d	NSLRWCD C37	BASE	350.76	7.87	18.50	0	0.16	0.00	23.06	0.00
10yr3d	NSLRWCD C37	BASE	351.01	7.87	18.50	0	0.16	0.00	23.06	0.00
10yr3d	NSLRWCD C37	BASE	351.26	7.87	18.50	0	0.16	0.00	23.06	0.00
10yr3d	NSLRWCD C37	BASE	351.51	7.87	18.50	0	0.15	0.00	23.07	0.00
10yr3d	NSLRWCD C37	BASE	351.76	7.86	18.50	0	0.15	0.00	23.07	0.00
10yr3d	NSLRWCD C37	BASE	352.01	7.86	18.50	0	0.15	0.00	23.07	0.00
10yr3d	NSLRWCD C37	BASE	352.26	7.86	18.50	0	0.15	0.00	23.08	0.00
10yr3d	NSLRWCD C37	BASE	352.51	7.86	18.50	0	0.15	0.00	23.08	0.00
10yr3d	NSLRWCD C37	BASE	352.76	7.85	18.50	0	0.15	0.00	23.08	0.00
10yr3d	NSLRWCD C37	BASE	353.01	7.85	18.50	0	0.15	0.00	23.09	0.00
10yr3d	NSLRWCD C37	BASE	353.26	7.85	18.50	0	0.15	0.00	23.09	0.00
10yr3d	NSLRWCD C37	BASE	353.51	7.85	18.50	0	0.15	0.00	23.09	0.00
10yr3d	NSLRWCD C37	BASE	353.76	7.84	18.50	0	0.15	0.00	23.10	0.00
10yr3d	NSLRWCD C37	BASE	354.01	7.84	18.50	0	0.15	0.00	23.10	0.00
10yr3d	NSLRWCD C37	BASE	354.26	7.84	18.50	0	0.15	0.00	23.10	0.00
10yr3d	NSLRWCD C37	BASE	354.51	7.84	18.50	0	0.15	0.00	23.10	0.00
10yr3d	NSLRWCD C37	BASE	354.76	7.83	18.50	0	0.15	0.00	23.11	0.00
10yr3d	NSLRWCD C37	BASE	355.01	7.83	18.50	0	0.15	0.00	23.11	0.00
10yr3d	NSLRWCD C37	BASE	355.26	7.83	18.50	0	0.15	0.00	23.11	0.00
10yr3d	NSLRWCD C37	BASE	355.51	7.83	18.50	0	0.15	0.00	23.12	0.00
10yr3d	NSLRWCD C37	BASE	355.76	7.82	18.50	0	0.15	0.00	23.12	0.00
10yr3d	NSLRWCD C37	BASE	356.01	7.82	18.50	0	0.15	0.00	23.12	0.00
10yr3d	NSLRWCD C37	BASE	356.26	7.82	18.50	0	0.15	0.00	23.13	0.00
10yr3d	NSLRWCD C37	BASE	356.51	7.82	18.50	0	0.15	0.00	23.13	0.00
10yr3d	NSLRWCD C37	BASE	356.76	7.81	18.50	0	0.15	0.00	23.13	0.00
10yr3d	NSLRWCD C37	BASE	357.01	7.81	18.50	0	0.15	0.00	23.14	0.00
10yr3d	NSLRWCD C37	BASE	357.26	7.81	18.50	0	0.15	0.00	23.14	0.00
10yr3d	NSLRWCD C37	BASE	357.51	7.81	18.50	0	0.15	0.00	23.14	0.00
10yr3d	NSLRWCD C37	BASE	357.76	7.80	18.50	0	0.15	0.00	23.14	0.00
10yr3d	NSLRWCD C37	BASE	358.01	7.80	18.50	0	0.15	0.00	23.15	0.00
10yr3d	NSLRWCD C37	BASE	358.26	7.80	18.50	0	0.15	0.00	23.15	0.00
10yr3d	NSLRWCD C37	BASE	358.51	7.80	18.50	0	0.14	0.00	23.15	0.00
10yr3d	NSLRWCD C37	BASE	358.76	7.79	18.50	0	0.14	0.00	23.16	0.00
10yr3d	NSLRWCD C37	BASE	359.01	7.79	18.50	0	0.14	0.00	23.16	0.00
10yr3d	NSLRWCD C37	BASE	359.26	7.79	18.50	0	0.14	0.00	23.16	0.00
10yr3d	NSLRWCD C37	BASE	359.51	7.79	18.50	0	0.14	0.00	23.17	0.00
10yr3d	NSLRWCD C37	BASE	359.76	7.78	18.50	0	0.14	0.00	23.17	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	360.01	7.78	18.50	0	0.14	0.00	23.17	0.00
10yr3d	NSLRWCD C37	BASE	360.01	7.78	18.50	0	0.14	0.00	23.17	0.00

Appendix E – Net Improvement Analysis

ENGINEERING DESIGN & CONSTRUCTION, INC
CIVIL ENGINEERS & SURVEYORS SPECIALIZING IN LAND DEVELOPMENT

10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
772-462-2455

GENERAL SITE INFORMATION: V 8.6 | GO TO INTRODUCTION PAGE | 6/18/2018 | Blue Numbers = Input data | Red Numbers = Calculated or Carryover

Select the appropriate Meteorological Zone, input the appropriate Mean Annual Rainfall amount and select the type of analysis

NAME OF PROJECT: Camping World

HELP Rainfall

VIEW ZONE MAP

Meteorological Zone (Please use zone map): CLICK ON CELL BELOW TO SELECT → Zone 5

Mean Annual Rainfall (Please use rainfall map): 55.00 Inches

VIEW MEAN ANNUAL RAINFALL MAP

Type of analysis: CLICK ON CELL BELOW TO SELECT → Net improvement

Treatment efficiency (N, P) (ex 80 70 (no decimal points) **use only for specified removal efficiency**): % %

GO TO WATERSHED CHARACTERISTICS

Select the STORMWATER TREATMENT ANALYSIS Button below to begin analyzing the effectiveness of Best Management Practices.

Model documentation and example problems.

STORMWATER TREATMENT ANALYSIS

Systems available for analysis:
Retention Basin with option for calculating effluent concentration
Wet Detention
Exfiltration Trench
Pervious Pavement
Stormwater Harvesting
Biofiltration
Greenroof
Rainwater Harvesting
Managed Aquatic Plants Detention
Vegetated Natural Buffer
Vegetated Filter Strip
Swale
Rain Garden
Tree Well
Lined reuse pond
User Defined BMP

There is a user's manual for the BMPTRAINS model. It can be downloaded from www.stormwater.ucf.edu. The results from the example problems shown in the manual however may not reflect current model results due to ongoing updates of the model.

RESET INPUT FOR STORMWATER TREATMENT ANALYSIS

METHODOLOGY FOR CALCULATING REQUIRED TREATMENT EFFICIENCY

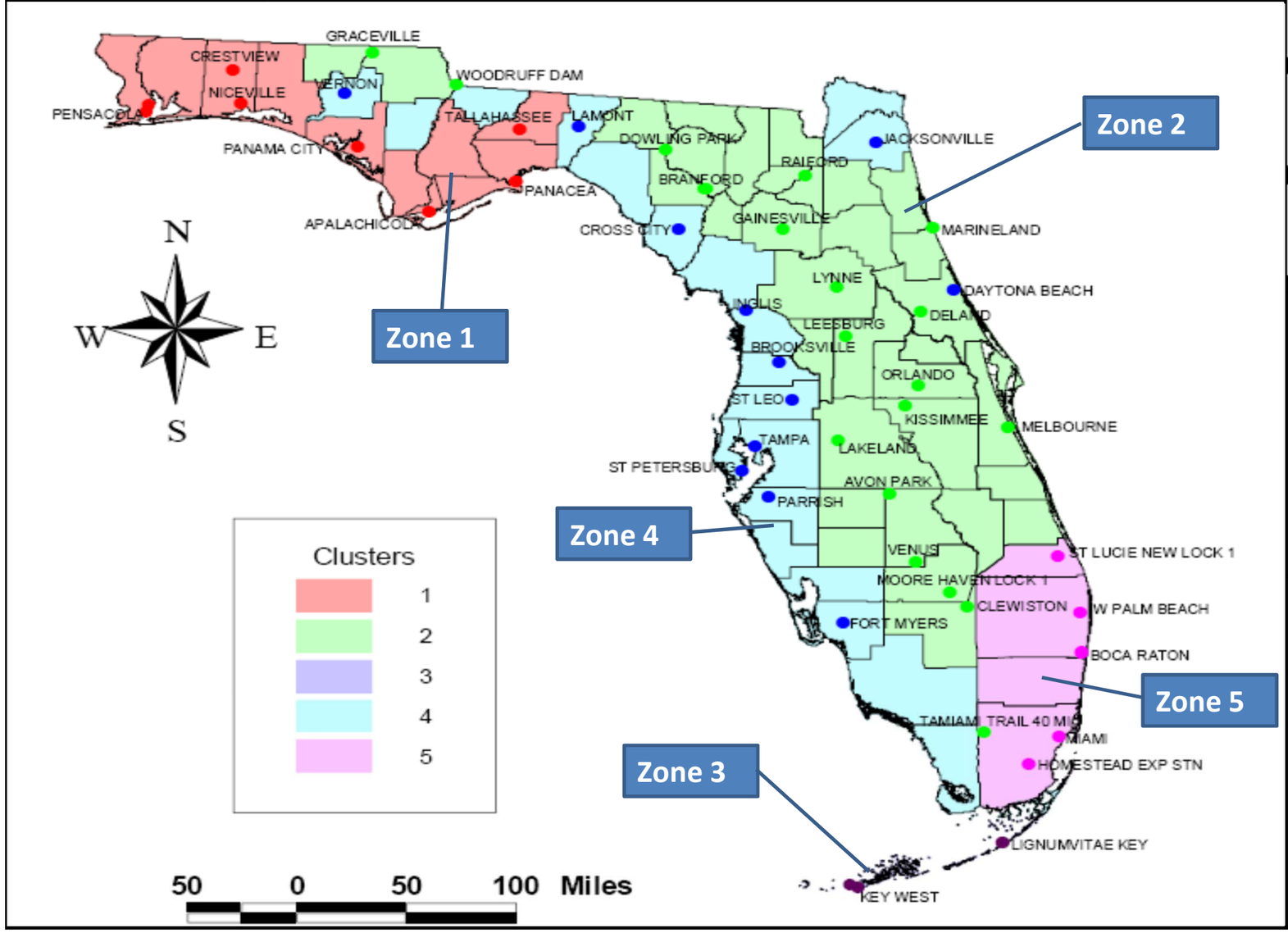
METHODOLOGY FOR RETENTION SYSTEMS

METHODOLOGY FOR WET DETENTION SYSTEMS

METHODOLOGY FOR GREENROOF SYSTEMS

METHODOLOGY FOR WATER HARVESTING SYSTEMS

ZONE MAP	DESIGNATED METEOROLOGICAL REGIONS (ZONES) IN FLORIDA



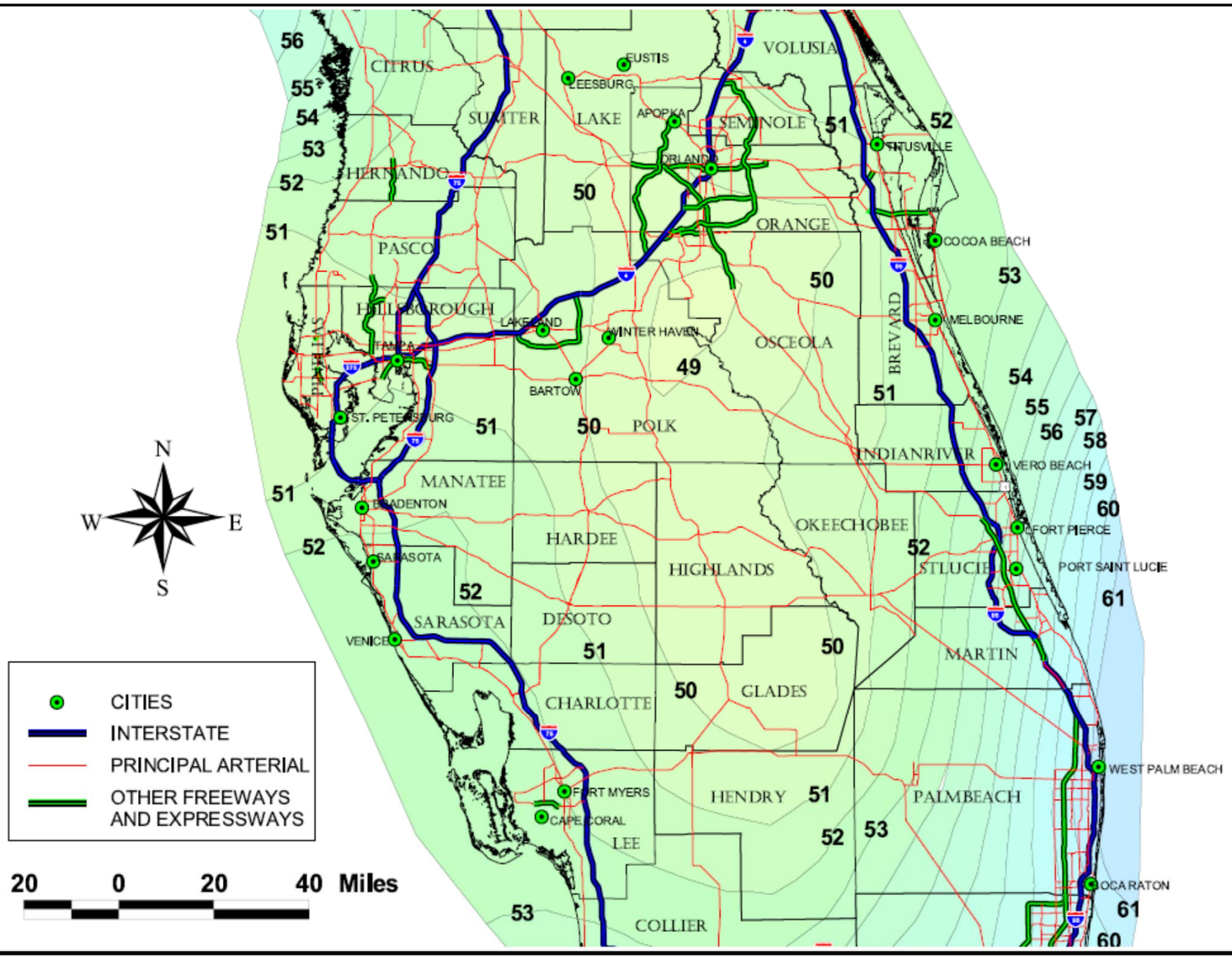
GO TO GENERAL SITE INFORMATION

GO TO STORMWATER HARVESTING SYSTEM

GO TO RAINWATER HARVESTING SYSTEM

Source: ***Evaluation of Current Stormwater Design Criteria within the State of Florida*** dated June 2007 by Harvey H. Harper, P.E., PhD., available at: http://www.dep.state.fl.us/water/nonpoint/docs/nonpoint/SW_TreatmentReportFinal_71907.pdf

MEAN ANNUAL RAINFALL MAP



Isopleths of Mean Annual Precipitation in Florida from 1971-2000.

Source: ***Evaluation of Current Stormwater Design Criteria within the State of Florida*** dated June 2007 by Harvey H. Harper, P.E., PhD., available at: http://www.dep.state.fl.us/water/nonpoint/docs/nonpoint/SW_TreatmentReportFinal_71907.pdf

GO TO GENERAL SITE

GO TO MAIN MAP

WATERSHED CHARACTERISTICS V 8.6

GO TO STORMWATER TREATMENT ANALYSIS

Blue Numbers = Input data
Red Numbers = Calculated

LAND USES/EMC

SELECT CATCHMENT CONFIGURATION 6/18/2018

CLICK ON CELL BELOW TO SELECT CONFIGURATION

B - 2 Catchment-Series

VIEW CATCHMENT CONFIGURATION

For comingling, the off-site catchment must be upstream. The delay is only for retention BMPs and must be used in hours as measured by the time of concentration at a one inch/hour rain

COMINGLING | MULTI-LAND USE

GO TO GENERAL SITE INFORMATION PAGE

VIEW AVERAGE ANNUAL RUNOFF "C" Factor

VIEW EMC & FLUCCS

GO TO GIS LANDUSE DATA

CATCHMENT NO.1 NAME: Existing Offsite

Delay [hrs] | max delay = 15 hrs.

Pre-development land use:	CLICK ON CELL BELOW TO SELECT: Agricultural - Citrus: TN=2.240 TP=0.183
with default EMCs	
Post-development land use:	CLICK ON CELL BELOW TO SELECT: Agricultural - Citrus: TN=2.240 TP=0.183
with default EMCs	

OVERWRITE DEFAULT CONCENTRATIONS USING:

	PRE:	POST:
EMC(N):	mg/L	mg/L
EMC(P):	mg/L	mg/L

USE DEFAULT CONCENTRATIONS

Total pre-development catchment area:	16.030	AC	Average annual pre runoff volume:	7.385 ac-ft/year
Total post-development catchment or for BMP analysis:	16.030	AC	Average annual post runoff volume (note no BMP area):	7.385 ac-ft/year
Pre-development Non DCIA CN:	64.00		Pre-development Annual Mass Loading - **Nitrogen:**	20.402 kg/year
Pre-development DCIA percentage:	4.13	%	Pre-development Annual Mass Loading - **Phosphorus:**	1.667 kg/year
Post-development Non DCIA CN:	64.00		Post-development Annual Mass Loading - **Nitrogen:**	20.402 kg/year
Post-development DCIA percentage:	4.13	%	Post-development Annual Mass Loading - **Phosphorus:**	1.667 kg/year
Estimated BMP Area (No loading from this area)	0.000	AC		

CATCHMENT NO.2 NAME: Camping World & Outparcel

Pre-development land use:	CLICK ON CELL BELOW TO SELECT: Agricultural - Citrus: TN=2.240 TP=0.183
with default EMCs	
Post-development land use:	CLICK ON CELL BELOW TO SELECT: Low-Intensity Commercial: TN=1.13 TP=0.188
with default EMCs	

OVERWRITE DEFAULT CONCENTRATIONS:

	PRE:	POST:
EMC(N):	mg/L	mg/L
EMC(P):	mg/L	mg/L

USE DEFAULT CONCENTRATIONS

Total pre-development catchment area:	28.970	AC	Average annual pre runoff volume:	11.716 ac-ft/year
Total post-development catchment or BMP analysis area:	28.970	AC	Average annual post runoff volume (note no BMP area):	48.436 ac-ft/year
Pre-development Non DCIA CN:	64.00		Pre-development Annual Mass Loading - **Nitrogen:**	32.365 kg/year
Pre-development DCIA percentage:	2.48	%	Pre-development Annual Mass Loading - **Phosphorus:**	2.644 kg/year
Post-development Non DCIA CN:	94.00		Post-development Annual Mass Loading - **Nitrogen:**	67.500 kg/year
Post-development DCIA percentage:	1.86	%	Post-development Annual Mass Loading - **Phosphorus:**	11.230 kg/year
Estimated BMP Area (No loading from this area)	3.927	AC		

CATCHMENT NO.3 NAME:

Pre-development land use:	CLICK ON CELL BELOW TO SELECT
with default EMCs	
Post-development land use:	CLICK ON CELL BELOW TO SELECT
with default EMCs	

OVERWRITE DEFAULT CONCENTRATIONS:

	PRE:	POST:
EMC(N):	mg/L	mg/L
EMC(P):	mg/L	mg/L

USE DEFAULT CONCENTRATIONS

Total pre-development catchment area:		AC	Average annual pre runoff volume:	ac-ft/year
Total post-development catchment or BMP analysis area:		AC	Average annual post runoff volume (note no BMP area):	ac-ft/year
Pre-development Non DCIA CN:			Pre-development Annual Mass Loading - **Nitrogen:**	kg/year
Pre-development DCIA percentage:		%	Pre-development Annual Mass Loading - **Phosphorus:**	kg/year
Post-development Non DCIA CN:			Post-development Annual Mass Loading - **Nitrogen:**	kg/year
Post-development DCIA percentage:		%	Post-development Annual Mass Loading - **Phosphorus:**	kg/year
Estimated BMP Area (no loading from this area)		AC		

CATCHMENT NO.4 NAME:

Pre-development land use:	CLICK ON CELL BELOW TO SELECT
with default EMCs	
Post-development land use:	CLICK ON CELL BELOW TO SELECT
with default EMCs	

OVERWRITE DEFAULT CONCENTRATIONS:

	PRE:	POST:
EMC(N):	mg/L	mg/L
EMC(P):	mg/L	mg/L

USE DEFAULT CONCENTRATIONS

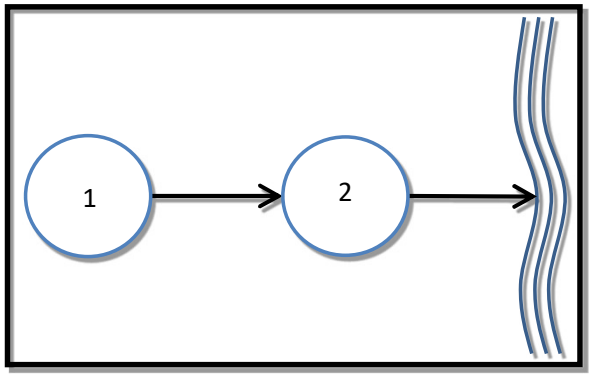
Total pre-development catchment area:		AC	Average annual pre runoff volume:	ac-ft/year
Total post-development catchment or BMP analysis area:		AC	Average annual post runoff volume (note no BMP area):	ac-ft/year
Pre-development Non DCIA CN:			Pre-development Annual Mass Loading - **Nitrogen:**	kg/year
Pre-development DCIA percentage:		%	Pre-development Annual Mass Loading - **Phosphorus:**	kg/year
Post-development Non DCIA CN:			Post-development Annual Mass Loading - **Nitrogen:**	kg/year
Post-development DCIA percentage:		%	Post-development Annual Mass Loading - **Phosphorus:**	kg/year
Estimated BMP Area (no loading from this area)		AC		

STORMWATER TREATMENT ANALYSIS:	V 8.6	GO TO GENERAL SITE INFORMATION PAGE	Blue Numbers =	Input data
			Red Numbers =	Calculated

If not done, specify pre- and post-development watershed characteristics.

6/18/2018

GO TO WATERSHED CHARACTERISTICS



Total Required Treatment Efficiency:

Required Treatment Eff (**Nitrogen**):	40 %
Required Treatment Eff (**Phosphorus**):	67 %

Select one of the BMPs below to analyze efficiency or review the summary data.

RETENTION BASIN	WET DETENTION / MAP	EXFILTRATION TRENCH	RAIN GARDEN / depression storage	SWALE	USER DEFINED BMP
PERVIOUS PAVEMENT	STORMWATER HARVESTING	FILTRATION	View Media Mixes	NOTE !!!: All individual system must be sized prior to being analyzed in conjunction with other systems. Please read instructions in the CATCHMENT AND TREATMENT SUMMARY RESULTS tab for more information.	
GREENROOF	RAINWATER HARVESTING	LINED REUSE POND & UNDERDRAIN INPUT	GO TO COST ANALYSIS WORKSHEET		
VEGETATED NATURAL BUFFER	VEGETATED FILTER STRIP	TREE WELL	CATCHMENT AND TREATMENT SURFACE		

Wet Detention Lake Permanent Pool Volume

ELEVATION (NAVD)	AREA (ACRE)	INCREMENTAL VOLUME (ACFT)	CUMULATIVE VOLUME (ACFT)
10.00	3.19		0.00
		6.10	
8.00	2.91		6.10
		25.80	
-2.00	2.25		31.90

Anoxic depth assumed at 12 feet below control elevation

ENGINEERING DESIGN & CONSTRUCTION, INC
CIVIL ENGINEERS & SURVEYORS SPECIALIZING IN LAND DEVELOPMENT

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Port St. Lucie, FL 34987
772-462-2455

WET DETENTION / MANAGED AQUATIC PLANTS: 6/18/2018 V 8.6

Blue Numbers =	Input data
Red Numbers =	Calculated or Carryover

Also called: FLOATING ISLANDS and includes a wet detention pond:

Camping World

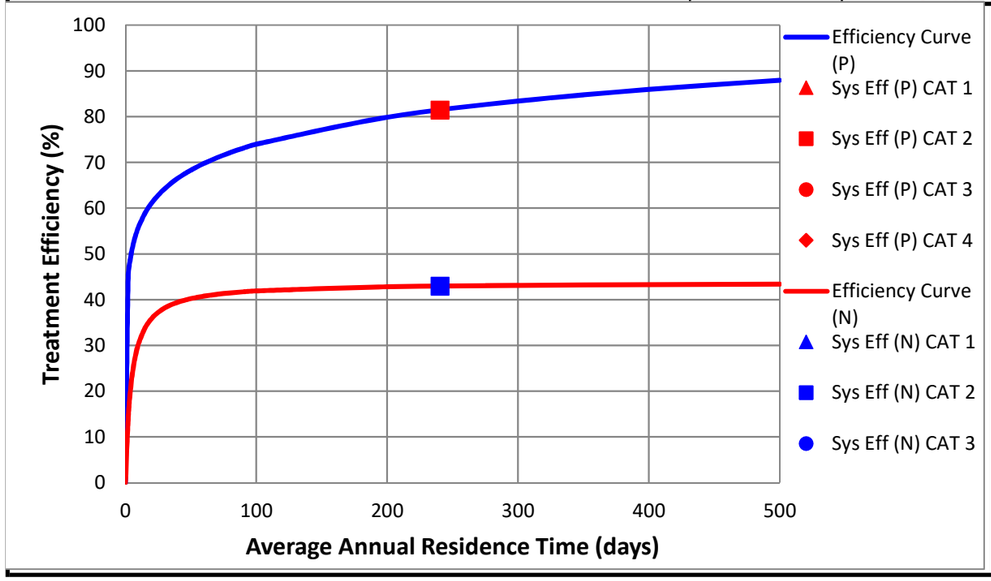
GO TO STORMWATER TREATMENT ANALYSIS

	Existing Offsite	World & Ou	Catchment 3	Catchment 4	
Total pre-development catchment area:	16.030	28.970	0.000	0.000	ac
Total post-development catchment area:	16.030	25.043	0.000	0.000	ac
Average annual residence time (between 1 and 500 days)		240.40			days
Littoral Zone or other improvements used?*		NO			
Littoral Zone or other improvement efficiency credit:					%
Floating Wetland or Mats used in the design:		NO			
Floating Wetland or Mats credit:					%
Total **Nitrogen** removal required:	0.000	52.051			%
Total **Phosphorus** removal required:	0.000	76.455			%
Total **Nitrogen** removal efficiency:	0.000	42.967	0.000	0.000	%
Total **Phosphorous** removal efficiency:	0.000	81.465	0.000	0.000	%
Is the wet detention sufficient:		NO			
Average annual runoff volume:	7.385	48.436			ac-ft/yr

* pond coverage must follow Regulatory Requirements

Wet Detention Pond Characteristic:

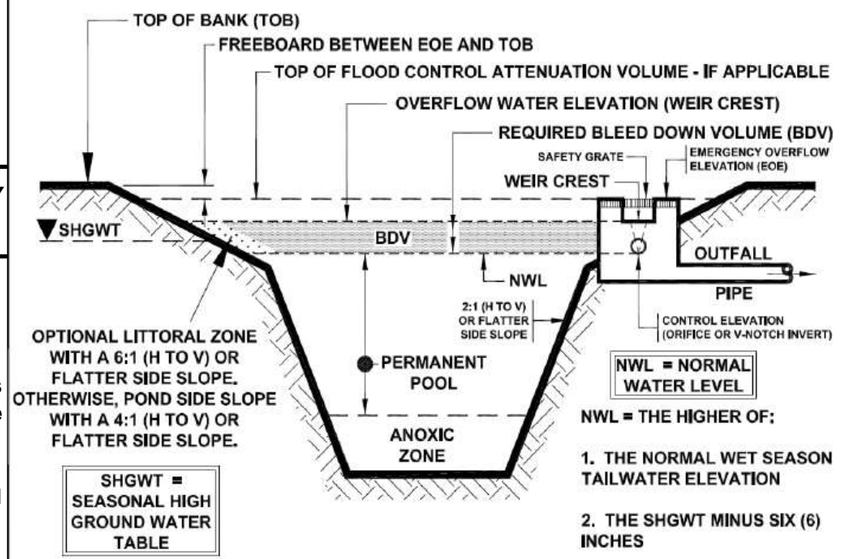
Minimum Pond Permanent Pool Volume:		31.901			ac-ft



NOTE FOR TREATMENT EFFICIENCY GRAPH:

The purpose of the treatment efficiency graphs is to help illustrate the treatment efficiency of the wet detention system as the function of average annual residence time (and permanent pool volume). The graph illustrates that there is a point of diminished return as the permanent pool volume is substantially increased. Therefore, to provide the most economical BMP treatment system, other alternatives such as "treatment trains" and compensatory treatment should be considered.

REQUIRED REMAINING TREATMENT EFFICIENCIES OF TREATMENT SYSTEM IN SERIES WITH FLOATING ISLANDS WITH WET DETENTION. USE FOR SIZING OF TREATMENT SYSTEM IN SERIES WITH FLOATING ISLANDS WITH WET DETENTION.



TYPICAL X-SECTION OF A WET DETENTION SYSTEM

Source of Graphic: draft **STORMWATER QUALITY APPLICANT'S HANDBOOK** dated March 2010, by the Department of Environmental Protection, available at: http://www.dep.state.fl.us/water/wetlands/erp/rules/stormwater, March 2010

CATCHMENTS AND TREATMENT SURFACE DISCHARGE SUMMARY V 8.6

CALCULATION METHODS:

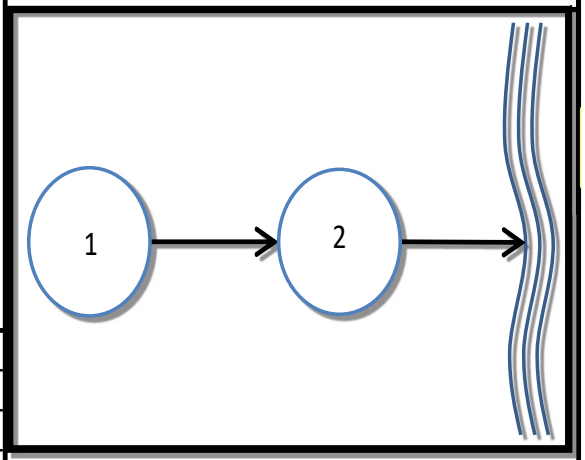
1. The effectiveness of each BMP in a single catchment is converted to an equivalent capture volume.
2. Certain BMP treatment train combinations have not been evaluated and in practice they are at this time not used, an example is a greenroof following a tree well.
3. Wet detention is last when used in a single catchment with other BMPs, except when followed by filtration

PROJECT TITLE	Camping World	Optional Identification		
	Existing Offsite	mping World & Outpar	Catchment 3	Catchment 4
BMP Name		Wet Detention/ MAPs		
BMP Name				
BMP Name				

REVIEW, ONE OR MORE CATCHMENT HAS BEEN SPECIFIED WITHOUT A BMP

Surface Water Discharge Summary Performance of Entire Watershed

Catchment Configuration	B - 2 Catchment-Series		6/18/2018
Nitrogen Pre Load (kg/yr)	52.77	Treatment Objectives or Target for TN MET TP MET	BMPTRAINS MODEL
Phosphorus Pre Load (kg/yr)	4.31		
Nitrogen Post Load (kg/yr)	87.90		
Phosphorus Post Load (kg/yr)	12.90		
Target Load Reduction (N) %	40		
Target Load Reduction (P) %	67		
Target Discharge Load, N (kg/yr)	52.74		
Target Discharge Load, P (kg/yr)	4.26		
Provided Overall Efficiency, N (%):	41		
Provided Overall Efficiency, P (%):	80		
Discharged Load, N (kg/yr & lb/yr):	51.59	113.63	
Discharged Load, P (kg/yr & lb/yr):	2.59	5.71	
Load Removed, N (kg/yr & lb/yr):	36.31	79.98	
Load Removed, P (kg/yr & lb/yr):	10.30	22.69	



Appendix F – Supporting Documentation

ENGINEERING DESIGN & CONSTRUCTION, INC
CIVIL ENGINEERS & SURVEYORS SPECIALIZING IN LAND DEVELOPMENT

10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
772-462-2455

C-37 CANAL TAILWATER FROM ERP APP 060412-11

THESE VALUES ARE IN THE NGVD 1929 DATUM, CONVERTED TO NAVD 1988 IN CALCULATIONS OF THE CAMPING WORLD SYSTEM DESIGN

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
ENVIRONMENTAL RESOURCE
STANDARD GENERAL PERMIT NO. 56-02469-P
DATE ISSUED: June 28, 2006

Form #0941
08/95

PERMITTEE: SCHOOL BOARD OF ST LUCIE COUNTY
327 N W COMMERCE PARK DR
PORT ST LUCIE, FL 34986

PROJECT DESCRIPTION: Construction and operation of a surface water management system to serve a 17.72-acre project known as Jenkins Road K-8 School.

PROJECT LOCATION: ST LUCIE COUNTY, SEC 19 TWP 35S RGE 40E

PERMIT DURATION: See Special Condition No:1. See attached Rule 40E-4.321, Florida Administrative Code.

This is to notify you of the District's agency action concerning Notice of Intent for Permit Application No. 060412-11, dated April 12, 2006. This action is taken pursuant to Rule 40E-1.603 and Chapter 40E-40 , Florida Administrative Code (F.A.C.).

Based on the information provided, District rules have been adhered to and an Environmental Resource General Permit is in effect for this project subject to:

1. Not receiving a filed request for a Chapter 120, Florida Statutes, administrative hearing.
2. the attached 19 General Conditions (See Pages : 2 - 4 of 6) ,
3. the attached 17 Special Conditions (See Pages : 5 - 6 of 6) and
4. the attached 2 Exhibit(s)

Should you object to these conditions, please refer to the attached "Notice of Rights" which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Please contact this office if you have any questions concerning this matter. If we do not hear from you in accordance with the "Notice of Rights," we will assume that you concur with the District's action.

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a "Notice of Rights" has been mailed to the Permittee (and the persons listed in the attached distribution list) no later than 5:00 p.m. on this 28th day of June, 2006, in accordance with Section 120.60(3), Florida Statutes.

BY: _____

For Anthony M. Waterhouse, P.E.
Director - Surface Water Management
Palm Beach Service Center

Certified mail number 7005 0390 0005 9815 0488

Name: 10 Yr 72 Hr Hydrology Sim: 10 Yr 72 Hr
Filename: P:\Proj-2005\05-560 SBSLC Jenkins Rd\Drainage\10 Yr 72 Hr.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 150.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: 10 Yr 72 Hr Boundary Flows:

Time(hrs)	Print Inc(min)
200.000	15.000

Group	Run
BASE	Yes

Name: 25 Yr 72 Hr Hydrology Sim: 25 Yr 72 Hr
Filename: P:\Proj-2005\05-560 SBSLC Jenkins Rd\Drainage\25 Yr 72 Hr.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 100.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: 10 Yr 72 Hr Boundary Flows:

Time(hrs)	Print Inc(min)
100.000	15.000

Group	Run
BASE	Yes

C-37 CANAL TAILWATER FROM ERP APP 060412-11

THESE VALUES ARE IN THE NGVD 1929 DATUM, CONVERTED TO NAVD 1988 IN CALCULATIONS OF THE CAMPING WORLD SYSTEM DESIGN

==== Boundary Conditions ====

Name: 10 Yr 24 Hr Node: Bndy Type: Stage

Time(hrs)	Stage(ft)
0.000	9.250
1.330	10.890
2.670	11.230
4.000	12.240
5.330	11.610
6.670	11.060
8.000	10.890
9.330	11.000
10.670	11.240
12.000	12.530
13.330	11.770
14.670	11.120
16.000	10.920
17.330	11.120
18.670	11.480
20.000	13.420
21.330	12.280
22.670	11.300
24.000	11.000

Name: 10 Yr 72 Hr Node: Bndy Type: Stage

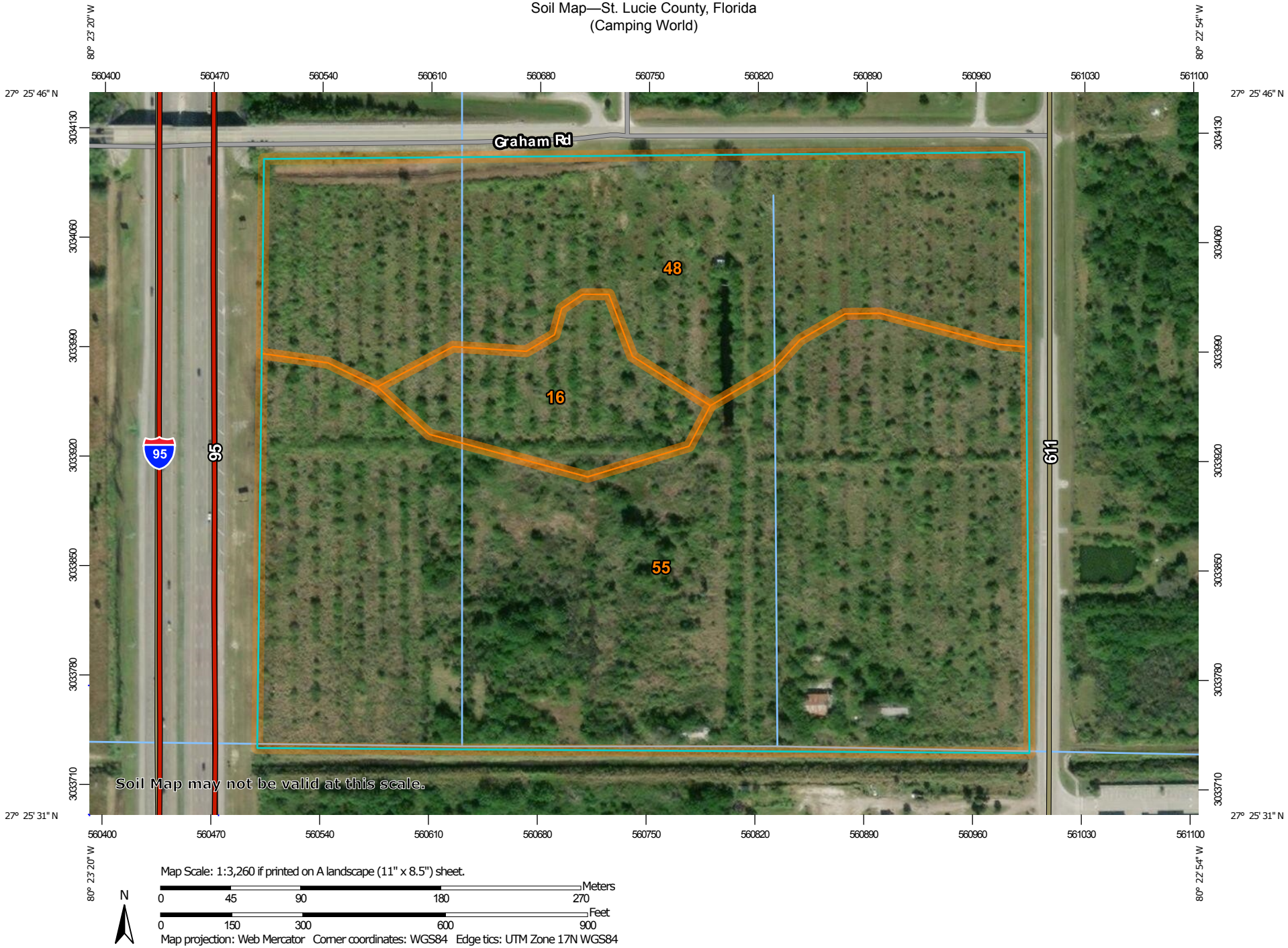
Time(hrs)	Stage(ft)
0.000	9.250
4.000	12.050
8.000	12.420
12.000	13.530
16.000	12.830
20.000	12.230

C-37 CANAL TAILWATER FROM ERP APP 060412-11

THESE VALUES ARE IN THE NGVD 1929 DATUM, CONVERTED TO NAVD 1988 IN CALCULATIONS OF THE CAMPING WORLD SYSTEM DESIGN

24.000	12.050
28.000	12.170
32.000	12.430
36.000	13.860
40.000	13.010
44.000	12.300
48.000	12.080
52.000	12.300
56.000	12.700
60.000	14.840
64.000	13.580
68.000	12.490
72.000	12.170

Soil Map—St. Lucie County, Florida
(Camping World)



Map Scale: 1:3,260 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 45 90 180 270

Feet
0 150 300 600 900

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: St. Lucie County, Florida
Survey Area Data: Version 10, Oct 6, 2017

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 31, 2009—Dec 15, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
16	Hilolo loamy sand	3.3	7.2%
48	Wabasso sand, 0 to 2 percent slopes	15.1	32.4%
55	Winder loamy sand	28.1	60.5%
Totals for Area of Interest		**46.6**	**100.0%**

RANGE 38 EAST

RANGE 39 EAST

RANGE 40 EAST

TOWNSHIP 35 SOUTH

TOWNSHIP 36 SOUTH

FORT PIERCE

INDIAN RIVER

ORANGE AVE.

Site Location

PROPOSED STRUCTURE

PROPOSED STRUCTURE

PROPOSED STRUCTURE

PROPOSED STRUCTURE

GENERAL WATER ELEVATIONS

DRY SEASON	WET SEASON
19.4	17.0
18.4	14.2
18.2	14.0
17.4	14.0
17.0–17.6	14.3
16	16
14.0	11.0
13.0	10.0
12	12
11	11
9.5	6.5
9.25	6
8.5	8.5
?	8
6	6
?	4
3.1	3.1
TIDAL	TIDAL

NOTES

1. The canal right-of-ways shown hereon are based on the Original Plan of Reclamation, Order of Taking and Deeds. Where discrepancies were found, the right-of-way width indicated in Order of Taking and Deeds were used.
2. The n-numbered canals are right-of-ways deeded to the District subsequent to the Adoption of the Plan of Reclamation.
3. Some portions of right-of-ways as shown hereon have been deeded to Federal, State, County and Local Agencies for road and drainage purposes.
4. The bench marks shown hereon (NO1 through NO48) were established in June 1975 and refer to elevations established by the F.C.E. for MON. 1442.
5. The elevations denoted thus were taken from the District Map prepared by Others, copies of which are on file in the District Office. Culvert and invert elevations or other structure may affect control elevations throughout the system. It is recommended that the District be consulted on Control.
6. Designer should not rely solely on this drawing

LEGEND

Applicable Right-of-Way Width Each Side of Line

Center of Section

Section or 1/4 Section Line

Change in Right-of-Way Width at Section, 1/4 Section or 1/4-1/4 Section Corners

Roadways

Railroad

Bridges

Private Pumping Station

District Back Pump

NSLRWCD WATER QUALITY TESTING FOR DEP CONTRACT No. WAP055

1. STRUCTURE 23-1
2. NF ST. LUCIE RIVER @ MIDWAY ROAD
3. PUMP STATION NO. 3
4. STRUCTURE 44-1
5. PUMP STATION NO. 1
6. PUMP STATION NO. 2
7. STRUCTURE 58-1
8. STRUCTURE 71-2
9. STRUCTURE 88-1
10. STRUCTURE 40-1
11. STRUCTURE 29-3
12. STRUCTURE 56-2

NSLRWCD IMPROVEMENTS

- TRASH BOOM
- WATER CONTROL STRUCTURE
- C-25 DIVERSION

STRUCTURE LEGEND

- FLASHBOARD RISER
- SINGLE SLIDE GATE
- DOUBLE SLIDE GATE
- FIXED WEIR
- RADIAL GATE
- SLUICE GATE
- ??-?-? CANAL NUMBER / STRUCTURE NUMBER / NUMBER OF GATES

PROPOSED STRUCTURES

- PROPOSED FIXED WEIR
- S = STAGE RECORDER, F = FLOW MEASUREMENT, R = RAINFALL GAUGE

N

0 1/4 1/2 3/4 1

SCALE IN MILES

GENERALIZED CANAL ELEVATIONS MAP FOR THE NORTH ST. LUCIE RIVER WATER CONTROL DISTRICT

ST. LUCIE COUNTY, FLORIDA

2721 S. JENKINS ROAD FORT PIERCE, FLORIDA 34981
PHONE: (561) 461-5050 FAX: (561) 461-9446

ORIGINAL MAP BY:
S. P. Mulk, P.L.S.
Vero Beach, FL (1987)

UPDATED BY:
LBFH, Inc., Ft. Pierce, FL
(REVISED 01-23-02)

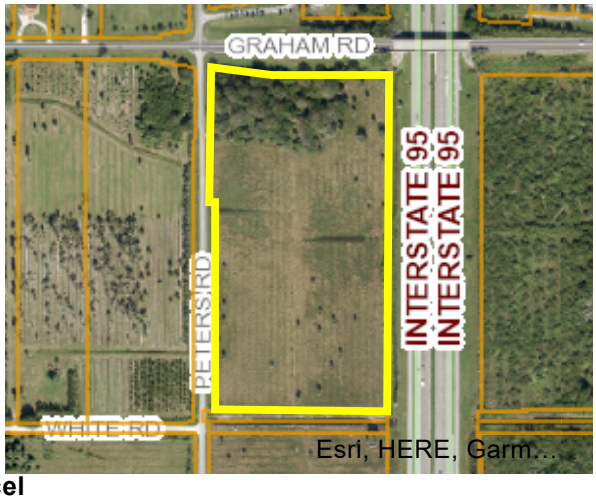
P\74-0901\CONTROLS.DWG

P:\74-0901\Maps\CONTROLS2-02-05-2004.dwg, 03/05/2004 11:08:45 AM, Russ-C, LBFH Inc.

Saint Lucie County Property Appraiser
Michelle Franklin CFA

Report generated: Tuesday, April 6, 2021

Parcel Report



Parcel

PARCELNO:	2313-432-0000-000-4
Property ID:	13775
Owner1:	R V Development Llc
SiteAddress:	2192 COPENHAVER RD

Owner

Owner1:	R V Development Llc
Owner2:	
Owner3:	
MailingAddress:	%Bud Wynne 547 Wash Roberts Ln McMinnville, TN 37110-4971

Overview

PrimaryLandUse:	6000 - GRZNG SLD CP
DistrictGroup:	0002 - Saint Lucie County
Subdivision:	Metes and Bounds
Just/Market Value:	$308,400
FinishedArea:	
Acres:	16.81
TotalArea:	732,243.6

Legal Description

LegalDescription: 13 35 39 W 1/2 OF SW 1/4 OF SE 1/4 LYG SLY AND WLY OF I-95 R/W (16.81 AC) (OR 1828-2810)

Value History

Year	Just/Market Value	Building Value	Land Value	SFYI Value	Assessed Value	Exemption Amount	County Taxable	Save Our Home OR 10% Cap Differential	Ag Credit
2020	$308,400	$0	$308,400	$0	$15,149	$0	$15,149	$17,651	$275,600
2019	$315,600	$7,200	$308,400	$0	$23,712	$0	$23,712	$16,288	$275,600
2018	$287,900	$7,500	$280,400	$0	$22,911	$0	$22,911	$17,389	$247,600

Tax Links

SLC Tax Collector's Office taxes for this parcel

Download TRIM notice for this parcel

Special Assessments

Description	Start Year	Units	Amount
North St. Lucie Water Management District	2013	16.81	$310.99
County Solid Waste	2009	12	$276.14

Land Lines

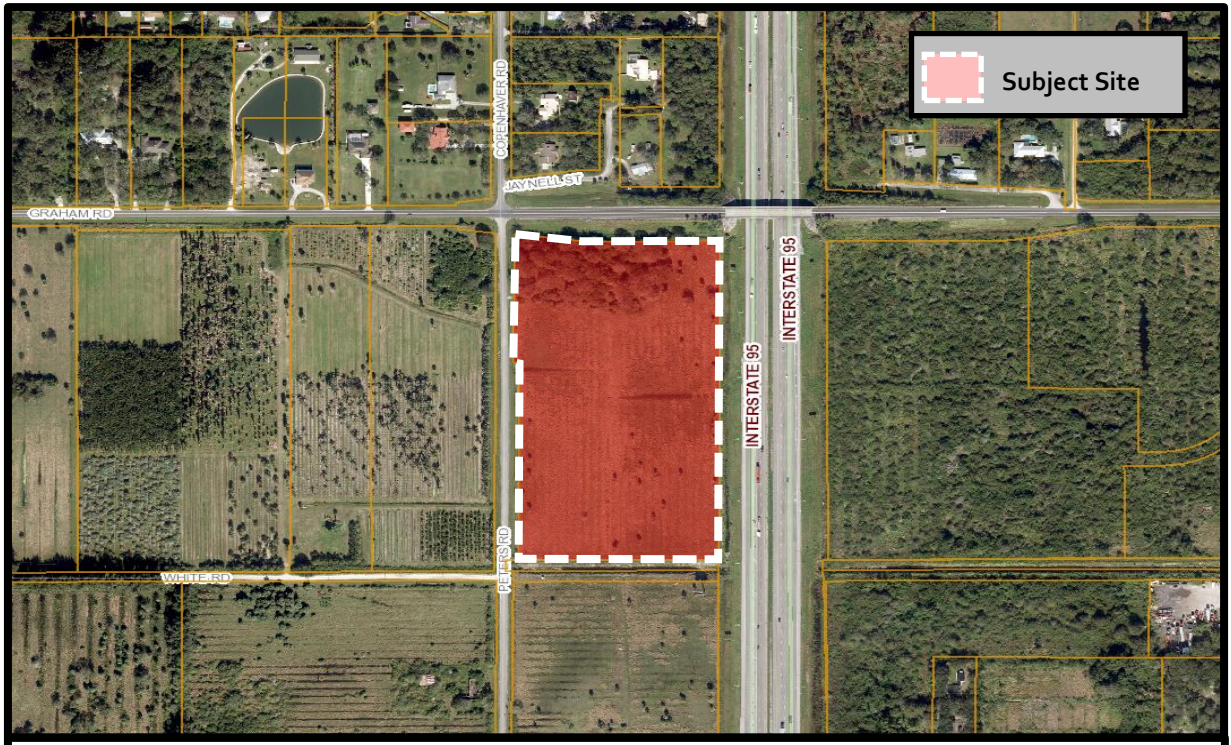
Line Number	Units	Unit Type
1	16	MACR
2	16	CACR
3	0.81	Acre

Sales History

Sale Date	Sale Price	Sale Code	Deed Type	Grantor	Book Page	View Document
09/24/2003	$1,750,100	XX02	WD	Griffin Chester B	1828-2810	Clerk of Courts
12/31/1899	$0				-	Clerk of Courts

Photos

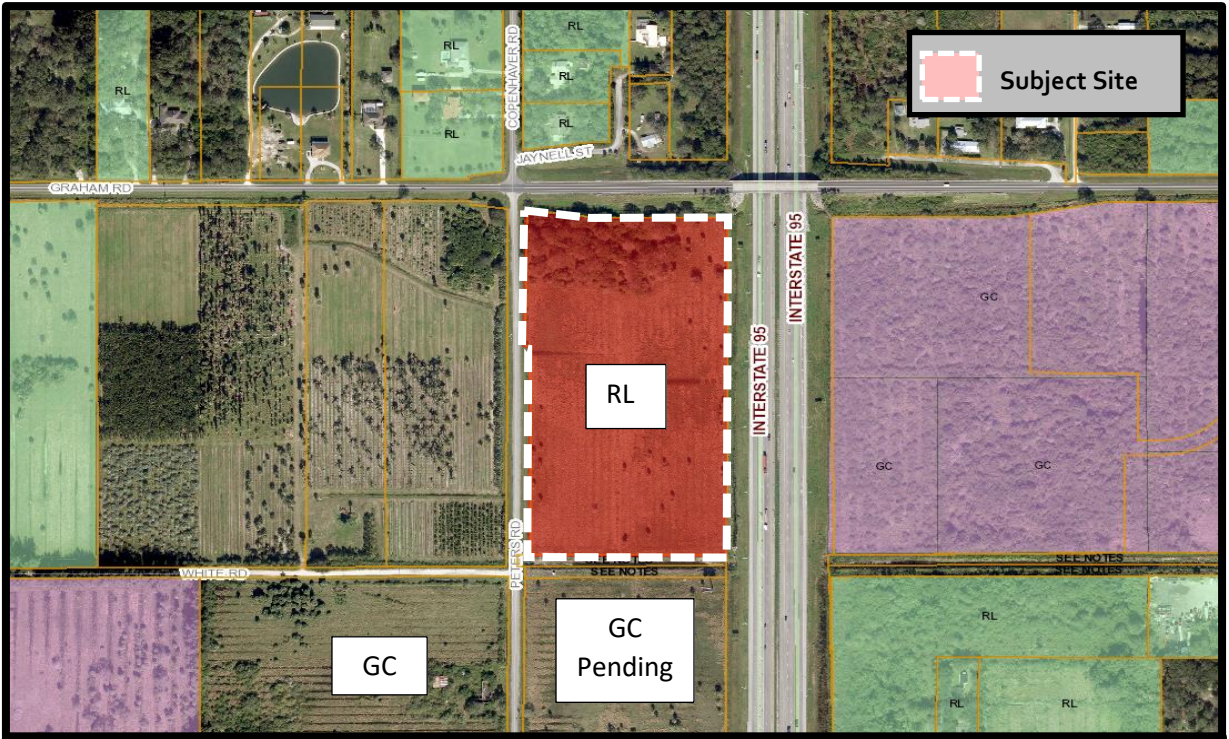




THE SUNRISE CITY
FORT PIERCE
Florida

Future Land Use & Zoning Atlas Map Amendment
2192 Peters Road
Aerial Map

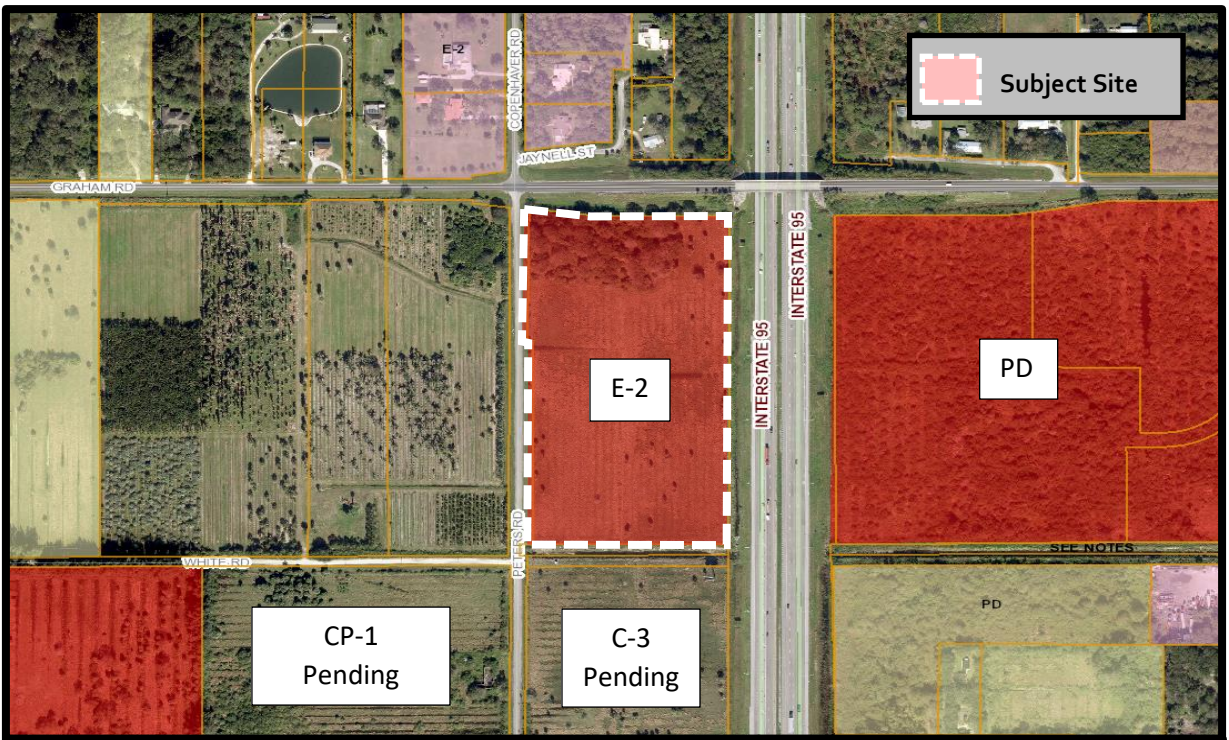
N
W E
S



THE SUNRISE CITY
FORT PIERCE
Florida

Future Land Use & Zoning Atlas Map Amendment
2192 Peters Road
Future Land Use Map

N
W E
S



THE SUNRISE CITY
FORT PIERCE
Florida

Future Land Use & Zoning Atlas Map Amendment 2192
2192 Peters Road
Zoning Map

N
W E
S

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

May 19, 2021

Blaine Bergstresser
445 24th Street, Suite 200
Vero Beach, FL 32960

Subject: **FLUMA & Rezoning – 2192 Copenhaver Road**
Technical Review Project # 21-06000007

Fort Pierce Planning:

1. It is staffs understanding that there will be subsequent applications filed for project specific Concurrency Review, Design Review, and Development Review soon for this site.
2. As this project is along a County Road the Traffic Study would be reviewed by the County and their third-party reviewer. This review may take place at the Development Review stage.

Please provide a written response to all TRC comments and provide an electronic submittal of materials (complete submittal packet). All comments must be satisfied and addressed to move onto the Planning Board review stage. The presented review is specific to the proposed facility. Please contact me should you have any questions regarding the project at (772) 467-3742 or by e-mail: bcreagan@cityoffortpierce.com.

Sincerely,

Brandon Creagan, MCRP, LEED Green Associate
Planner

THE SUNRISE CITY
FORT PIERCE
Florida
ENGINEERING
DEPARTMENT

TO : Brandon Creagan, Planner

FROM : John R. Andrews, P.E., City Engineer JRA

RE : Fort Pierce RV Storage Rezoning & FLU – 2192 Copenhaver Road
TRC No. 21-06000007

DATE : May 13, 2021

This is to advise you that we have completed the review of the following documents as received by this office on May 12, 2021:

- [x] Rezoning & FLU Application
- [ ] Test Reports & Related Documents
- [ ] Record Drawings
- [ ] Clearances from all applicable Local, State and Federal Agencies
- [ ] Construction Drawings
- [ ] Executed Construction Contract
- [ ] Permits from applicable Local, State & Federal Agencies

Based on our reviews and appropriate site final inspection, we

- [x] Recommend
- [ ] Do Not Recommend

- [x] Rezoning & FLU Approval
- [ ] Building Permit
- [ ] C/O

Developer, Owner, Engineer, Contractor and other members of the Development Team must be aware, the above recommendation is based only on the construction requirements of the engineering plans and other engineering documentation approved by this department. The Development Team shall be responsible for the compliance with other City department requirements and all approved documents, as well as Local, State and Federal regulations. The development requirements for this project may necessitate additional construction requirements that are not subject to this department's review for approval.

- [x] See attached for advisory comments

Q:\ENGINEERING\Site Development Projects\F\Fort Pierce RV Storage\Rezoning\Submittal No. 1 - 050721\Rezoning Approval- 051321.docx

ADVISORY COMMENTS:

1. The submitted survey was a photocopy. The applicant shall submit a certified boundary and topographic survey per the requirements specified in the City of Fort Pierce Code of Ordinances Section 119-2 at time of site plan application.
2. Review of the development will occur at time of site plan application.

JRA/TST/tst

TST

100 NORTH US 1, FORT PIERCE, FLORIDA 34950 ▪ CITYOFFORTPIERCE.COM ▪ TEL: 772.467.3000 ▪ FAX: 772.460.6847

THE SUNRISE CITY
FORT PIERCE
BUILDING DEPARTMENT Florida

BUILDING DEPARTMENT
TECHNICAL REVIEW COMMITTEE (TRC)
COMMENT FORM

Meeting Date: 5.20.21
Property Address: Future Land Use Map Amendment and Rezoning - RV Storage - 2192 Copenhaver Road

Please be advised that the project may trigger the requirements indicated below:

☑ 1. Building Official or his representative has no comment at the time of this meeting, but reserves submission of comments upon completion of the official plan review.

☐ 2. Pre-construction meeting with the City's Building Department is requested.

☐ 3. Any construction will need to meet the requirements of the Florida Building Code 7th Edition.

☐ 4. Means of egress is required.

☐ 5. Means of ingress is required.

☐ 6. Must meet the following Accessibility requirements:

- ☐ Accessible route
- ☐ Handicapped parking spaces
- ☐ Means of egress

☐ 7. Change of Use required

- ☐ to include a signed and sealed Life Safety Plan
- ☐ to include a signed and sealed detailed comprehensive building plan.

☐ 8. Property exists in Special Flood Hazard Area. All Federal and State requirements shall be addressed.

☐ 9. Flood Development Permit required.

☐ 10. Building Permit required.

☐ 11. Signed and sealed construction drawings required.

☐ 12. Will need to meet the Fire Code.

☐ 13. Sprinkler system is required.

☐ 14. Smoke alarm system is required.

☐ 15. Other

Additional Comments/Requirements:

Building Official's or Representative's Signature _____ Date: 5/14/21

THE SUNRISE CITY
FORT PIERCE
Florida
POLICE DEPARTMENT
"In Honor We Serve"

Technical Review Committee meeting

May 20, 2021

Case # 21-06000007

Planner: Brandon Creagan

Future Land Use / Rezoning

2192 Copenhaver Rd., Ft. Pierce (RV Storage).

Comments:

No comments at this time.

Officer Damian Spotts

Crime Prevention Practitioner

Fort Pierce Police Department.

Fort Pierce Utilities Authority
Water/Wastewater Engineering
1701 South 37th Street
Fort Pierce, FL 34947
772.466.1600 x3473

Technical Review Committee Meeting

March 18, 2021

TECHNICAL REVIEW PROJECT # 21-06000007

RV Storage-2192 Copenhaver Rd

Comments

FPUA W/WW Engineering: Approved as noted,

Water and sewer services are available to serve this property. See attached Utility map. FPUA will require a 15 feet utility easement at the southern end of the property for a future 12" water main. For more information please contact John Biggs at 772 466 1600 ext. 3474.

FPUA Electric & Gas Engineering: Approved

Currently, existing electric service to the site (From Peters / Copenhaver Road). Please provide electric load information for the propose new services and AutoCAD drawing. Customer will be responsible for all transformer pads (if needed), conduits and secondary conductors. For more information and project coordination, please contact Sal Scimeca.

Sal Scimeca
Engineering Technician II
Electric and Gas Engineering
1701 S. 37th Street, Fort Pierce, FL 34947
sscimeca@fpua.com

Office: (772)466-1600 Ext. 6957

Please find attached a copy of the FPUA GIS map (Electric).

If the developer should have any questions, please have them contact me or the individual listed above.



Legend

- Electric Primary Wire
- Transmission Wire
- Gas Main
- Fiber Optic Cable
- Potable Water Main
- Raw Water Main
- Wastewater Force Main
- WW Gravity Main
- Pole
- Fuse
- Transformers
  - Overhead
  - Pad Mount
- Valves
  - Gas
  - Water
  - Raw Water
  - Waste Water
- Fire Hydrant
- Well
- Lift Station

Disclaimer:

The data contained herein is offered "as is", with no claim or warranty as to its accuracy or completeness. The data is for reference only and should not be considered to be of survey precision. Due to formatting restrictions, the information provided in the map may not be represented in the legend.

811 Know what's below. Call before you dig.

Date: 11/23/2020

FPUA COMMUNITY PROUD

N

1 inch = 273 feet

FPUA Web Map

Created By:
FPUA

(772) 466-1600
FAX (772) 461-1938



Legend

- Electric Primary Wire
- Transmission Wire
- Gas Main
- Fiber Optic Cable
- Potable Water Main
- Raw Water Main
- Wastewater Force Main
- WW Gravity Main

- Pole
- Fuse

Transformers

- Overhead
- Pad Mount

Valves

- Gas
- Water
- Raw Water
- Waste Water

- Fire Hydrant
- Well
- Lift Station

Disclaimer:

The data contained herein is offered "as is", with no claim or warranty as to its accuracy or completeness. The data is for reference only and should not be considered to be of survey precision. Due to formatting restrictions, the information provided in the map may not be represented in the legend.

811 Know what's below. Call before you dig.

Date: 2/8/2021

FPUA COMMUNITY PROUD

N

1 inch = 222 feet

FPUA Web Map

Created By:
FPUA

(772) 466-1600
FAX (772) 461-1938

May 18, 2021

PROJECT: RV Storage – 2192 Copenhaver Road

REF: TRC App. #21-06000007

TO: Brandon Creagan

FROM: David Hays

The following comments are offered by SLC Public Works Department as advisory:

1. The project accesses onto a County Road. The road is an unimproved roadway and approval of projects on unimproved roadways should include improvement of the roadway to City standards.
2. There are several projects proposed on Peters Road (referred to by application as Copenhaver Road). As all projects will require construction of Peters Road, it is recommended the owners coordinate a meeting with the City and County to address the process together.
3. The traffic report will be reviewed by a third party through the County.
4. For discussion regarding these comments, please contact me at 772-462-1491, haysd@stlucieco.org or Grant Chambers at 772-462-2741, chambersg@stlucieco.org.

Cc: Alicia Rosenthal

ST. LUCIE COUNTY FIRE DISTRICT
Community Risk Reduction Division
Office of the Fire Marshal

Telephone: **(772) 621-3322**
Fax: **(772) 621-3604**

BUREAU OF FIRE PREVENTION

SITE PLAN REVIEW

TO: Site Plan Applicant

SITE PLAN: 2192 Copenhaver Road (RV Storage)

REVIEW DATE: 5/11/2021

PLANNER: CREAGAN

REVIEWED BY: Captain Wayne Boyer

Site Plan Approved: _____

Site Plan Approved with conditions: ___X____

Site Plan Approval withheld pending written acknowledgement of conditions: _____

Site Plan Rejected: _____

The Following Revisions Are Necessary:

1. **Please submit a completed application for Development/Site Plan Review (St. Lucie County Fire District Development & Site Plan Review Application). This form is available on-line at https://www.slcfd.com**
2. **Fire District review fees are due at the time of submittal. An abbreviated fee schedule is included on the application form.**
3. **Please send the Fire District electronic plans for the site and buildings.**
4. **A separate review and permit is required for Underground Fire Mains connected to standpipes or sprinkler systems.**
5. **Fire hydrants (shall be) are provided for buildings other than detached one-and-two-family dwellings IAW both of the following 1) The maximum distance to a fire**

hydrant from the closest point in the building shall not exceed 400 feet. 2) The maximum distance between fire hydrants shall not exceed 500 feet. NFPA 1:18.5.3. Please provide fire flow calculations for hydrants.

6. **An approved water supply capable of supplying the required fire flow for fire protection (shall be) is identified to all premises upon which facilities, buildings, or portions of buildings which are to be constructed or moved into the jurisdiction. The approved water supply shall be in accordance with NFPA 1:18.4. See "Needed NFPA Fire Flow Calculator Spreadsheet".**

7. **Security gates must either be manned 24 hour/day or provide an access control key switch on the control panel to allow for Fire Department entry in an emergency. Security gates must maintain a clear width of 12 feet when open and provide a means to open the gates manually upon loss of power.**

8. **Site Plans shall include all necessary fire department access roadways and fire lanes as determined by the Fire Marshal. At least 13 feet 6 inches nominal vertical clearance shall be provided and maintained over the full width of all means of access. Including, but not limited to trees, canopies, etc., as referred to in Exhibit "A," attached hereto. Minimum roadway pavement width (two-way traffic) shall be twenty (20) feet. Minimum roadway pavement width (one-way traffic) shall be twelve (12) feet.**

9. **The Fire District reserves the right for future comments at the site plan & building construction phase.**

10. **Per NFPA 1114 Chapter 9, Section 1.3. Prior to the final occupancy of any building, the permitted water supply for fire protection, including fire hydrants and fire suppression systems, shall be installed, tested, and acceptable to the AHJ (SLCFD).**

11. **Be advised: Dimensions of largest vehicle are as follows: 38 tons or 77k lbs, 47.5 ft. total length, 21.5 ft. wheel base, 10.5 ft. total width, 41.5 degree turning radius.**

Planning Board **7. a.**

Meeting Date: 07/14/2021

Information

REQUESTED ACTION

Rezoning - RV Storage - 2192 Peters Road

LOCATION

2192 Peters Road

RESPONSIBLE STAFF

Brandon C. Creagan, MCRP, LEED Green Associate, Senior Planner

RECOMMENDATION

Approval

Attachments

Staff Report
Application & Supporting Documents
Aerial Map
Future Land Use Map
Zoning Map
TRC Comments

Form Review

Form Started By: Brandon Creagan Started On: 07/08/2021 10:58 AM

Final Approval Date: 07/08/2021

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

TO:	Members of the City of Fort Pierce Planning Board
THROUGH:	Jennifer Hofmeister-Drew, AICP, LCAM, Planning Director
FROM:	Brandon Creagan, MCRP, LEED Green Associate, Senior Planner
RE:	**Application for Future Land Use Map Amendment** **Application for Zoning Atlas Map Amendment** **RV Storage – 2192 Peters Road**
BOARD DATE:	July 14, 2021

STAFF REPORT

Property Owner	R.V. Development, LLC 547 Wash Roberts Lane McMinnville, TN 37110
Representative:	Macritchie Storage Ventures, LLC 715 5th Avenue, SW, Suite 1700 Calgary AB T2P 2X6, Canada
Requested Action:	Approval to change the Future Land Use of a parcel from Low Density Residential (RL) to General Commercial (GC) Approval to Rezone a parcel from Single Family, 2 du/acre (E-2) to General Commercial (C-3)
Site Location:	2192 Peters Road
Parcel IDs:	2313-432-0000-000-4
Existing Use:	Vacant
Parcel Size:	17.83 acres
Current Future Land Use:	Low Density Residential (RL)
Current Zoning:	Single Family, 2 du/acre (E-2)

Proposed Future Land Use: General Commercial (GC)

Proposed Zoning: General Commercial (C-3)

	North	East	South	West
Surrounding FLU:	RL (FP) RU (SLC)	GC(FP)	GC (FP) Pending	RU (SLC)
Surrounding Zoning:	E-2 (FP) RS-2 (SLC)	PD (FP)	C-3 (FP) Pending	AR-1 (SLC)

Staff Analysis:

Request

In accordance with Sections 125-37, 125-133, and 125-136 of the City Code and Chapter 163.3184, F.S., the applicant is requesting review and approval of a Future Land Use Map Amendment from Low Density Residential (RL) to General Commercial (GC) with a compatible change to the Zoning Atlas (Rezoning) from Single Family, two (2) du/acre (E-2) to General Commercial (C-3) to develop the site for a future RV storage lot.

Future Land Use and Zoning Designation Comparison

The subject site currently has a Future Land Use of Low Density Residential (RL). The RL designation is intended for parcels that are best suited for lower density residential uses. The predominant development typology will consist of single family detached housing but can also contain duplexes and multifamily residences. Limited commercial uses intended to serve the neighborhood shall be allowed. Compatible public, quasi-public, and special uses including parks, churches, non-profit clubs, schools, and daycare facilities shall also be allowed. This land use category ranges in density from 1 to 6.5 dwelling units per acre.

The applicant is seeking a Future Land Use of General Commercial (GC) to be consistent with the development that will be proposed on the site. The GC designation provides for higher intensity commercial developments or horizontal and vertical mixed-use developments. Uses allowed within this designation include multifamily residential, intensive/general commercial, retail, service, offices, tourist/entertainment facilities, hotels/motels, parks/recreation, along with compatible public, quasi-public, and special uses. This land use designation allows for a maximum density of 15 dwelling units per acre and a maximum FAR of 1.0. Development shall include either commercial or mixed uses fronting major roadway corridors with higher intensity near major intersections. Residential uses may comprise up to 20 percent of the total floor area of the General Commercial future land use designation.

As the area is surrounded by land use that is either General Commercial (GC), Medium Density Residential (RM), Mixed Use (MXD), or Residential Urban, 5 du/ac (RU), the requested General Commercial land use is compatible with its surrounding uses. This area is experiencing multiple requests to annex into the city, in combination with both Future Land Use and Zoning map amendments to Commercial in the past few months. The subject request is consistent with these

recent changes. There are no direct conflicts with the subject request. Staff has indicated that proper attention to future development in the proximity is necessary to properly plan for increased traffic and subsequent impacts to the level of service standard.

The traffic study concluded that the change in land use can be accommodated with the current funded long-range transportation network and the proposed daily trips will not have a significant impact on the transportation network. At the time of submittal of a development proposal for the subject site, the applicant will be required to submit for review and approval of a subsequent traffic study that analyzes the traffic impacts of the proposed development and layout of the site plan. The nearby roadway of Kings Highway from Orange Avenue to Okeechobee Road is currently undergoing a planned Department of Transportation reconstruction that includes road widening, intersection improvements, and drainage improvements.

Standards for Review

The following standards must be satisfied per Section 125-136 of the City Code prior to the approval of the proposed applications:

(1) The amendment is consistent with the Comprehensive Plan.
(2) The amendment will not have an adverse effect on the ability of the City to:

a. Satisfy land and water use needs; and
b. Meet transportation demands and provide community facilities and services.

(3) The amendment will promote and protect the public health, safety, and general welfare.

The proposed amendment is consistent with the Goals, Objectives, and Policies of the City's Comprehensive Plan. The Zoning Atlas Map Amendment promotes and protects the public health, safety, and general welfare as the request as proposed is not out of character for the area and is similar to surrounding land uses and zoning designations. The current zoning of Single Family, 2 du/acre (RS-2) is not compatible with the surrounding area as this zoning category is suitable for areas with single family estates or other residentially zoned areas and not for areas that are commercial or industrial centers.

Technical Review Committee

All affected City and County Departments have reviewed the proposed Future Land Use Map and Zoning Atlas Map Amendments and have provided conditional approval based on compliance with requirements of the City Code and the Comprehensive Plan. The comments generated from the technical review and any responses by the applicant have been provided.

Staff Recommendation Future Land Use Map Amendment

The requested Application for Future Land Use Map Amendment meets the criteria specified in Section 125-136 of the City Code, the Comprehensive Plan, and does not adversely affect the public health, safety, convenience, and general welfare; Staff recommends that the Local Planning Agency (Planning Board) forward a recommendation of **APPROVAL** to the City Commission.

Staff Recommendation Zoning Atlas Map Amendment

The requested Application for Zoning Atlas Map Amendment meets the criteria specified in Section 125-136 of the City Code, the Comprehensive Plan, and does not adversely affect the public health, safety, convenience, and general welfare; Staff recommends that the Planning Board forward a recommendation of **APPROVAL** to the City Commission.

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

Application for Future Land Use Map Amendment

☒ Future Land Use Map Amendment – Large Scale (>10 acres)

☐ Future Land Use Map Amendment – Small Scale (<10 acres)

In accordance with Chapter 163.3187, Florida Statutes, The City of Fort Pierce will consider applications for land use changes on parcels in excess of 10 aces ("Large Scale Amendments") only twice each calendar year. The City Commission will consider applications for land use changes on parcels less than or equal to 10 acres with a maximum density of 10 units per acres or less at any time during the calendar year. You are encouraged to schedule a pre-application meeting with the planning staff and to submit your application up to three months in advance of the application deadline.

Application submission shall include the following:

•**TRC** (*Initial Submission): One (1) original and (8) paper copies of the application and support documents and provide one (1) electronic copy of the application packet as described below.

•**Planning Board**: One (1) original and (13) paper copies of the application and support documents and provide one (1) electronic copy of the application packet as described below.

•**City Commission**: One (1) original and (11) paper copies of the application and support documents and provide one (1) electronic copy of the application packet as described below.

In addition to a complete application, packets shall include:

- ☐ Warranty Deed & Legal Description
- ☐ St. Lucie County Property Record Card
- ☐ Statement of why there is a need for the proposed future land use map amendment and how the amendment will result in an orderly and logical development pattern; statements how amendment(s) are consistent with Comprehensive Plan; how future land use designation is compatible with future land use designations and existing land uses surrounding the amended lands; identify future land use designations and existing land uses within a ½ mile of the subject property that have the same or greater type of proposed future land use designation; data and analysis to support conclusions.
- ☐ Current Survey
- ☐ Environmental Study
- ☐ Traffic Impact Report
- ☐ *** Capacity Analysis-Separate Form
- ☐ Drainage Analysis
- ☐ Historical Report
- ☐ 1 CD of all documents submitted in PDF
- ☐ Other_____

1. Property Address/Location: 2192 Copenhaver Rd (SE Corner of Graham Rd. and Copenhaver Rd.)
2. Property Tax ID(s): 2313-432-0000-000-4
3. Total Acreage: 17.83
4. Existing Future Land Use Designation: RU - Residential Urban, St.Lucie County FLU
5. Existing Zoning Classification: RS-2 - Single Family, St.Lucie County Zoning
6. Proposed Zoning Classification: C-3
7. Other applications being submitted concurrent with this application, if any: Zoning Atlas Map Ammendment
   Annexation has already been applied for
8. Describe the existing uses, improvements and structures on the amendment lands:
   Currently a vacant site being used for agricultural cow grazing, proposing to develop into an RV storage site.
9. Are there any identified or possible historical structures on the amendment lands? No
10. The reason for making this request: Currently the site is Zoned RS2 with a Future Land Use of RU and is part of St.Lucie County. It is being annexed into the City.
11. **Capacity Analysis:**

I. Site Data:

	Existing Use	Future Land Use	Zoning
North	Single Family Residential	Single Family Residential	SLC - RS-2, Single Family, 2 DU/AC
South	Agricultural Land	Mixed Use	SLC - RS-2, Single Family, 2 DU/AC
East	Commercial	Commericial	FORT PIERCE - GENERAL COMMERCIAL
West	Agricultural Land	Residential Urban	SLC - AR-1, AGRICULTURAL RESIDENTIAL, 1 DU/AC

	Future Land Use	Zoning Classification	Maximum Intensity Residential: Dwelling Units per Acre Other: Square Footage	Total Acreage	Flood Zone
Current	RU - Residential Urban	RS-2 Single Family	2 DU/AC	17.83	X
Proposed	GC	C-3	466,005 SF	17.83	N/A

II. Public Facilities Information:

A. Potable Water:	
Average Use	Residential: 100 gallons per day per person (du x 2.6= persons x 100 gpd = demand) Other: 0.125 gallons per day per square foot
Demand Analysis	Maximum
Current Zoning	Total gallons per day 9,100
Proposed Zoning	Total gallons per day 58.251
Change in Demand	**Total gallons per day** 49,151

B. Wastewater:	
Average Use	Residential: 100 gallons per day per person (du x 2.6= persons x 100 gpd = demand) Other: 0.1 gallons per day per square foot
Demand Analysis	Maximum
Current Zoning	Total gallons per day 9,100
Proposed Zoning	Total gallons per day 46,601
Change in Demand	**Total gallons per day** 37,501

C. Parks and Recreation (Residential Classifications Only): N/A
(Du x 2.6 = persons + 44,227 = population /LOS)

Park Type	LOS	Existing Population Park Demand	Proposed Population Park Demand	Change in Demand
Regional	20 acres per 1,000 people	0		
Urban District	5 acres per 1,000 people	0		
Community	2.5 acres per 1,000 people	0		
Neighborhood	1.36 acres per 1,000 people	0		

D. Public Schools (Residential Classifications Only): N/A
Single Family: (du x 0.405 = students/70% K-8/30% High)
Multi-family: (du x 0.207 = students/70% K-8/30% High)

	K-8	High
School Name		
City		
Distance		
Current Zoning Enrollment Demand		
Proposed Zoning Enrollment Demand		
Change in Demand		

E. Solid Waste:
2 yard serves 15 units, 4 yard serves 30 units, 6 yard serves 45 units, 8 yard serves 60 units

Demand Analysis	Maximum
Current Zoning	6 yards
Proposed Zoning	4 yards
Change in Demand	-2 yards

F. Stormwater: Potential increase in volume discharged due to increased impervious coverage, reduced groundwater seepage or loss of surface water storage impacting Adopted LOS of 25-year 3-day storm Pre vs. Post Runoff (Storm sewers to convey 5 year- 1 day storm event; Canals to convey 3 year – 1 day storm event)	
Impact	The impervious area will be increased but the 25 year 3 day will be less in the post development than it is in the pre development

G. Transportation Analysis: Most recent ITE Code for use; HCM Roadway Capacity		
	AADT	**AM/PM Peak Hour Trips**
Demand Analysis	Maximum	Maximum
Current Zoning	331	35
Proposed Zoning	91	5
Change in Demand	Trips -240	Trips -30
Impact to Capacity		

12. Name of Owner(s): R V Development, LLC
Mailing Address: 547 Wash Roberts Lane
City MC Minnville State TN Zip 37110
Phone # 954-214-4553
E-mail:

13. Name of Applicant: Macritchie Storage Ventures, LLC
Mailing Address: 715 5th Avenue, SW, Suite 1700
City Calgary AB T2P 2X6 State Zip
Phone # 403-973-4882 Fax #
E-mail: blokhorst@macritchie.biz

14. Name of Representative: Blaine Bergstresser, P.E.
Mailing Address: 445 24th Street, Suite 200
City Vero Beach State FL Zip 32960
Phone # 772-794-4061 Fax #
E-mail: Blaine.Bergstresser@Kimley-Horn.com

15. Applicant Acknowledgements (Owner's signature must be notarized)

I certify that: (Check One)

☐ I (we) do hereby certify that I (we) own in fee simple the above referenced described property for which a change in Zoning Classification is requested.

☑ I (we) are not the owner of the above described property; however, the owners signature below authorizes the applicants the authority to act as agent for the owner(s) of record.

Applicant's Signature Date

715 5th Avenue, SW, Suite 1700
Address State Calgary AB T2P 2X6 Zip

403-973-4882 blokhorst@macritchie.biz
Phone Fax E-mail Address

16. Property Owners Acknowledgements: - This application will not be considered complete without the signature of all property owners of record, which shall serve as an acknowledgement of the submission of this application for a change in zoning classification. The property owner's signature(s) below shall also authorize the Applicant (if other than the property owner) and/or Agent to act in his/her behalf for the purposes of seeking this change to the City' Land Development Regulations for the property described herein.

954-214-4553
Property Owner's Name (Please Print) Phone

547 Wash Roberts Lane TN 37110
Address State Zip

James A Wynne
Property Owner's Signature Date

STATE OF FLORIDA)
ST LUCIE COUNTY)

The foregoing instrument was acknowledged before me this 31ST day of March, 2021, by James A Wynne who is personally known to me or has produced in person as identification.

Sheila Butcher
Signature of Notary (seal)

SHEILA BUTCHER STATE OF TENNESSEE NOTARY PUBLIC WARREN COUNTY

expires 7.27.21 SB

OFFICE USE:

DATE RECEIVED:_____ Signed:_____

File Number:_____ Check No: _____ Receipt No: _____

TRC Review:_____ Planning Board Review: _____ City Commission: _____

Ordinance No:_____ Date Approved: _____

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT
Florida

Application for Zoning Atlas Map Amendment

Application submission shall include the following:

•**TRC** (*Initial Submission): One (1) original and (8) paper copies of the application and support documents and provide one (1) electronic copy of the application packet as described below.

•**Planning Board**: One (1) original and (16) paper copies of the application and support documents and provide one (1) electronic copy of the application packet as described below.

•**City Commission**: One (1) original and (11) paper copies of the application and support documents and provide one (1) electronic copy of the application packet as described below.

In addition to a complete application, packets shall include:

- ☐ Warranty Deed & Legal Description
- ☐ St. Lucie County Property Record Card
- ☐ Statement of why there is a need for the proposed future land use map amendment and how the amendment will result in an orderly and logical development pattern; statements how amendment(s) are consistent with Comprehensive Plan; how future land use designation is compatible with future land use designations and existing land uses surrounding the amended lands; identify future land use designations and existing land uses within a ½ mile of the subject property that have the same or greater type of proposed future land use designation; data and analysis to support conclusions.
- ☐ Current Survey
- ☐ Environmental Study
- ☐ Traffic Impact Report
- ☐ *** Capacity Analysis-Separate Form
- ☐ Drainage Analysis
- ☐ Historical Report
- ☐ 1 CD of all documents submitted in PDF
- ☐ Other_____

1. Property Address/Location: 2192 Copenhaver Rd (SE Croner of Graham Rd and Copenhaver Rd.)
2. Property Tax ID(s): 2313-432-0000-000-4
3. Total Acreage: 17.83 Acres
4. Existing Future Land Use Designation: RU - Residential Urban
5. Existing Zoning Classification: RS-2 - Single Family, 2du/ac
6. Proposed Zoning Classification: C-3
7. Other applications being submitted concurrent with this application, if any: Future Land Use Amend

8. Describe the existing uses, improvements and structures on the amendment lands: Currently a vacant site, proposing to develop into an RV Storage site.

9. Are there any identified or possible historical structures on the amendment lands? No

10. The reason for making this request: Currently the site is Zoned RS-2 with a Future Land Use of RU and is partof St.Lucie County. It is being annexed into the City.

11. CAPACITY ANALYSIS

I. Site Data:

	Existing Use	Future Land Use	Zoning
North	Single Family Res	Single Family Residential	SLC - RS-2, SINGLE FAMILY, 2 DU/AC
South	Agricultural Land	Mixed Use	SLC- RS-2, SINGLE FAMILY, 2 DU/AC
East	Commercial	Commercial	FORT PIERCE - GENERAL COMMERCIAL
West	Agricultural Land	Residential Urban	SLC - AR-1, AGRICULTURE RESIDENTIAL, 1 DU/AC

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Single Family: (du x 0.405 = students/70% K-8/30% High)
Multi-family: (du x 0.207 = students/70% K-8/30% High) N/A

	K-8	High
School Name		
City		
Distance		
Current Zoning Enrollment Demand		
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Impact	The impervious area will be increased but the 25 year 3 day will be less in the post development than it is in the pre development

III. Transportation Analysis

G. Traffic Most recent ITE Code for use; HCM Roadway Capacity		
	AADT	**AM/PM Peak Hour Trips**
Demand Analysis	Maximum	Maximum
Current Zoning	331	35
Proposed Zoning	91	5
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Impact to Capacity		

12. Name of Owner(s): R V Development, LLC
Mailing Address: 547 Wash Roberts Lane
City MC Minnville State TN Zip 37110
Phone # 954-214-4553
E-mail:

13. Name of Applicant: Macritchie Storage Ventures, LLC
Mailing Address: 715 5th Avenue, SW, Suite 1700
City Calgary AB T2P 2X6 State Zip
Phone # 403-973-4882 Fax #
E-mail: blokhorst@macritchie.biz

14. Name of Representative: Blaine Bergstresser, P.E.
Mailing Address: 445 24th Street, Suite 200
City Vero Beach State FL Zip 32960
Phone # 772-794-4061 Fax #
E-mail: Blaine.Bergstresser@Kimley-Horn.com

15. Applicant Acknowledgements (Owner's signature must be notarized)

I certify that: (Check One)

☐ I (we) do hereby certify that I (we) own in fee simple the above referenced described property for which a change in Zoning Classification is requested.

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Applicant's Signature Date

715 5th Avenue, SW, Suite 1700		Calgary AB T2P 2X6
Address		State Zip
403-973-4882		blokhorst@macritchie.biz
Phone	Fax	E-mail Address

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	954-214-4553	
Property Owner's Name (Please Print)	Phone	
547 Wash Roberts Lane	TN	37110
Address	State	Zip
James A Wynne III		
Property Owner's Signature		Date

STATE OF FLORIDA)
ST LUCIE COUNTY)

The foregoing instrument was acknowledged before me this 31ST day of March, 2021, by James A. Wynne who is personally known to me or has produced in person as ide

Sheila Butcher
Signature of Notary

(seal) SHEILA BUTCHER STATE OF TENNESSEE NOTARY PUBLIC WARREN COUNTY

expires 7-27-21 SB

OFFICE USE:

DATE RECEIVED:_____ Signed:_____

File Number:_____ Check No: _____ Receipt No: _____

TRC Review:_____ Planning Board Review: _____ City Commission: _____

Ordinance No:_____ Date Approved: _____

Stanaro & Hurrell
Box 34

JOANNE HOLMAN, CLERK OF THE CIRCUIT COURT - SAINT LUCIE COUNTY
File Number: 2294957 OR BOOK 1828 PAGE 2810
Recorded:10/24/03 16:00

* Doc Assump: $ 0.00
* Doc Tax : $ 12,250.70
* Int Tax : $ 0.00

Prepared by and return to:
Chester B. Griffin, Esquire
Neill Griffin Fowler Tierney Neill & Marquis - Chartered
Post Office Box 1270
Fort Pierce, Florida 34954
Courthouse Box #50
Parcel ID Number: 2324-122-0001-0003 ; 2313-432-0000-000/4
2324-121-0000-000/3 [Space Above for Recording]

WARRANTY DEED

This Warranty Deed made this 24th day of ~~October~~ Sept, 2003, by **CHESTER B. GRIFFIN and RICHARD V. NEILL**, hereinafter called the grantor, to **R. V. DEVELOPMENT, LLC, a Florida limited liability corporation**, hereinafter called the grantee, whose address is: **2560 SE 12th Street, Pompano Beach, Florida 33062.**

Wherever used herein, the terms "grantor" and "grantee" shall include singular and plural, heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations, wherever the context so admits or requires.

WITNESSETH: That the said grantor, for and in consideration of the sum of $10.00, in hand paid by the said grantee, the receipt whereof is hereby acknowledged, does hereby grant, bargain, sell, alien, remise, release, convey and confirm unto the said grantee, and the grantee's heirs and assigns forever, the following described land, situated, lying, and being in St. Lucie County, Florida, to wit:

SEE EXHIBIT "A" ATTACHED HERETO

THE PROPERTY BEING CONVEYED HEREIN DOES NOT CONSTITUTE THE HOMESTEAD PROPERTY OF ANY OF THE GRANTORS.

Subject to restrictions, reservations and easements of record, if any, and taxes subsequent to 2002.

TOGETHER with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

TO HAVE AND TO HOLD, the same in fee simple forever.

AND the Grantor hereby covenants with said Grantee that the Grantor is lawfully seized of said land in fee simple; that the Grantor has good right and lawful authority to sell and convey said land; that the Grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2002; zoning ordinances and rights of way for public roads.

In Witness Whereof, the Grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered
in our presence:

Susan G. Spee
Print Name of Witness: Susan G. Spee
Witness as to Both

Marcia L Heffelfinger
Print Name of Witness: MARCIA L. HEFFELFINGER
Witness as to Both

CHESTER B. GRIFFIN

RICHARD V. NEILL

STATE OF FLORIDA
COUNTY OF ST. LUCIE

The foregoing was acknowledged before me this 24th day of ~~October~~ Sept, 2003, by **CHESTER B. GRIFFIN and RICHARD V. NEILL,** [✓] who are personally known to me or [ ] who produced their drivers license as identification.

MARCIA L. HEFFELFINGER
MY COMMISSION # CC 905632
EXPIRES: April 15, 2004
Bonded Thru Notary Public Underwriters

Marcia L. Heffelfinger
Print Name of Notary: MARCIA L. HEFFELFINGER
NOTARY PUBLIC - STATE OF FLORIDA
MY COMMISSION EXPIRES:

Exhibit "A"

That portion of theWest 1/2 of the SW 1/4 of the SE 1/4, lying West of the Westerly right of way line of I-95, of Section 13, Township 35 South, Range 39 East,lying and being in St. Lucie County, Florida, less and except road rights of way for I-95; Graham Road; Copenhaver Road and less canal rights of way for NSLRDD Canal No. 37 on South line.

AND

The West 3/4 of the North Half of the Northwest Quarter of the Northeast Quarter, Less road and canal rights of way for I-95; White Road, AND ALSO, the Southwest Quarter of the Northwest Quarter of the Northeast Quarter, Less road rights of way for I-95 and Less the South 125 feet of the West 375 feet thereof, all lying and being in Section 24, Township 35 South, Range 39 East, St. Lucie County, Florida.

Kimley»Horn

April 6, 2021

Jennifer Hofmeister, ACIP
Planning Director
City of Ft. Pierce
100 N. U.S. Highway 1
Ft. Pierce, FL 34950
772-467-3737

RE: Ft. Pierce RV Storage- 2192 Copenhaver Road

Dear Ms. Hofmeister,

We are proposing a Future Land Use Map Amendment and Zoning Atlas Map Amendment for parcel # 2313-432-0000-000-4 at 2192 Copenhaver Road. Currently the property is part of unincorporated St. Lucie County and is being annexed into the City of Ft. Pierce. The property has a current zoning of Rs-2 with a future land use of Residential Urban. We are proposing a zoning classification of C-3 with a future land use of General Commercial (GC). The current zoning allows for two(2) units per acre. The property is bordered by I-95 to the east and Graham Road to the North.

The Comprehensive Plan's goal for a General Commercial (GC) future land use is for commercial developments with higher intensity to be fronting major roadway corridors. The property's location along I-95 meets this goal and matches the intensity of the recently constructed Gander RV project east of I-95 that is less than 0.5 miles away.

The change of zoning and future land use will have less of a traffic impact than the existing single-family zoning. It will result in a reduction of 240 daily trips and 30 peak PM trips on the surrounding roadways. The change from residential to commercial will also reduce the demand on the parks and recreation, the public schools, and the solid waste demand. The only proposed increase in demand will be for water and wastewater. However, that is based off the maximum allowable square footage of the rezoning and future land use. Based off the submitted site plan the demand on the water and wastewater will be minimal. A storage facility will have less impact on water and wastewater than single-family homes.

The proposed zoning change from RS-2 to C-3 and the future land use change from Residential Urban to General Commercial meets the Comprehensive Plan's goal of commercial development along the I-95 corridor. The proposed RV Storage site will also have less demand for traffic, parks and recreation, public schools, solid waste, and water/wastewater than the existing single-family classification.

Should you have any additional questions please do not hesitate to contact me at (772) 794-4061 or Blaine.Bergstresser@kimley-horn.com.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.



Blaine Bergstresser P.E

ALTA/NSPS LAND TITLE SURVEY

FOR: R.V. DEVELOPMENT, LLC

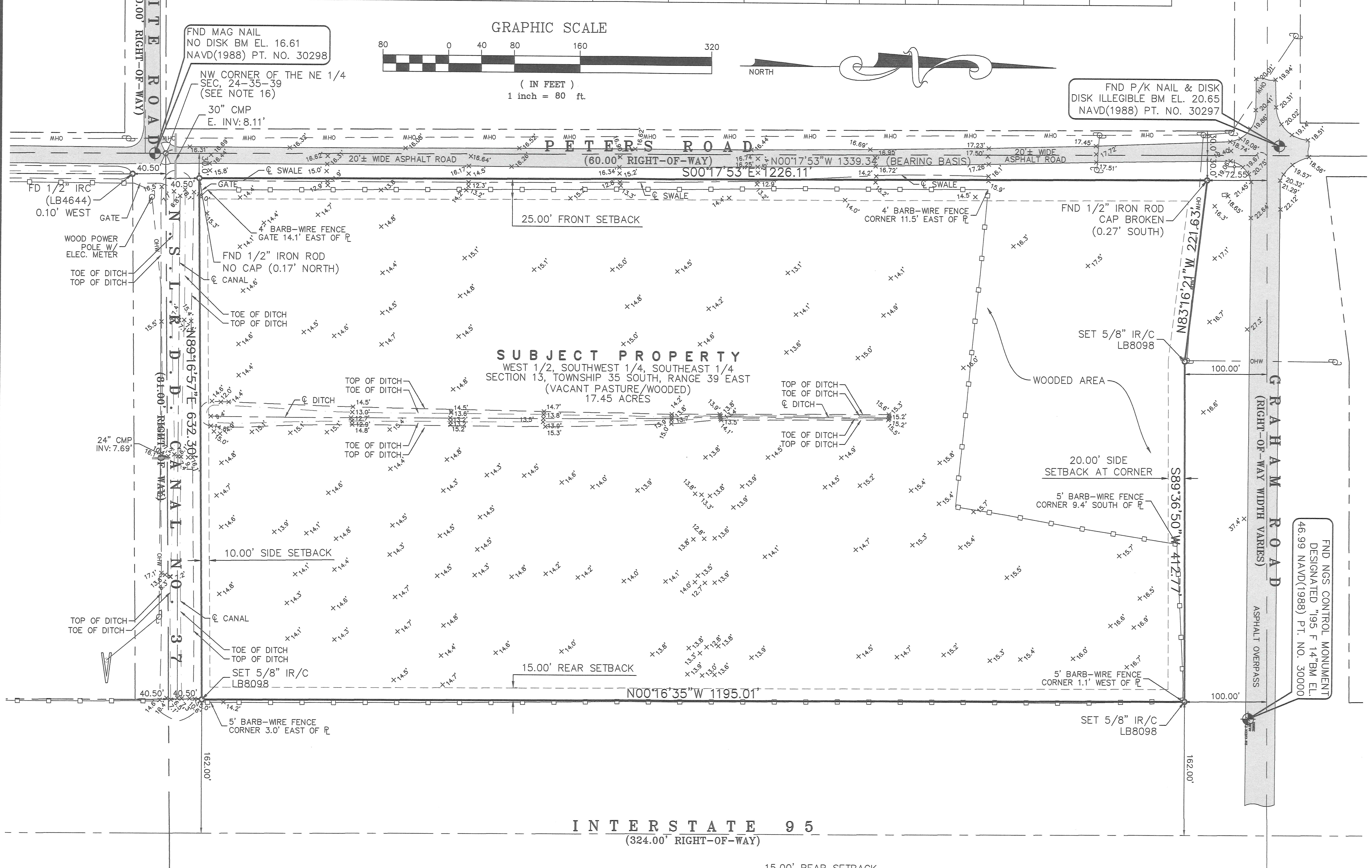
SURVEYORS NOTES AND REPORT:

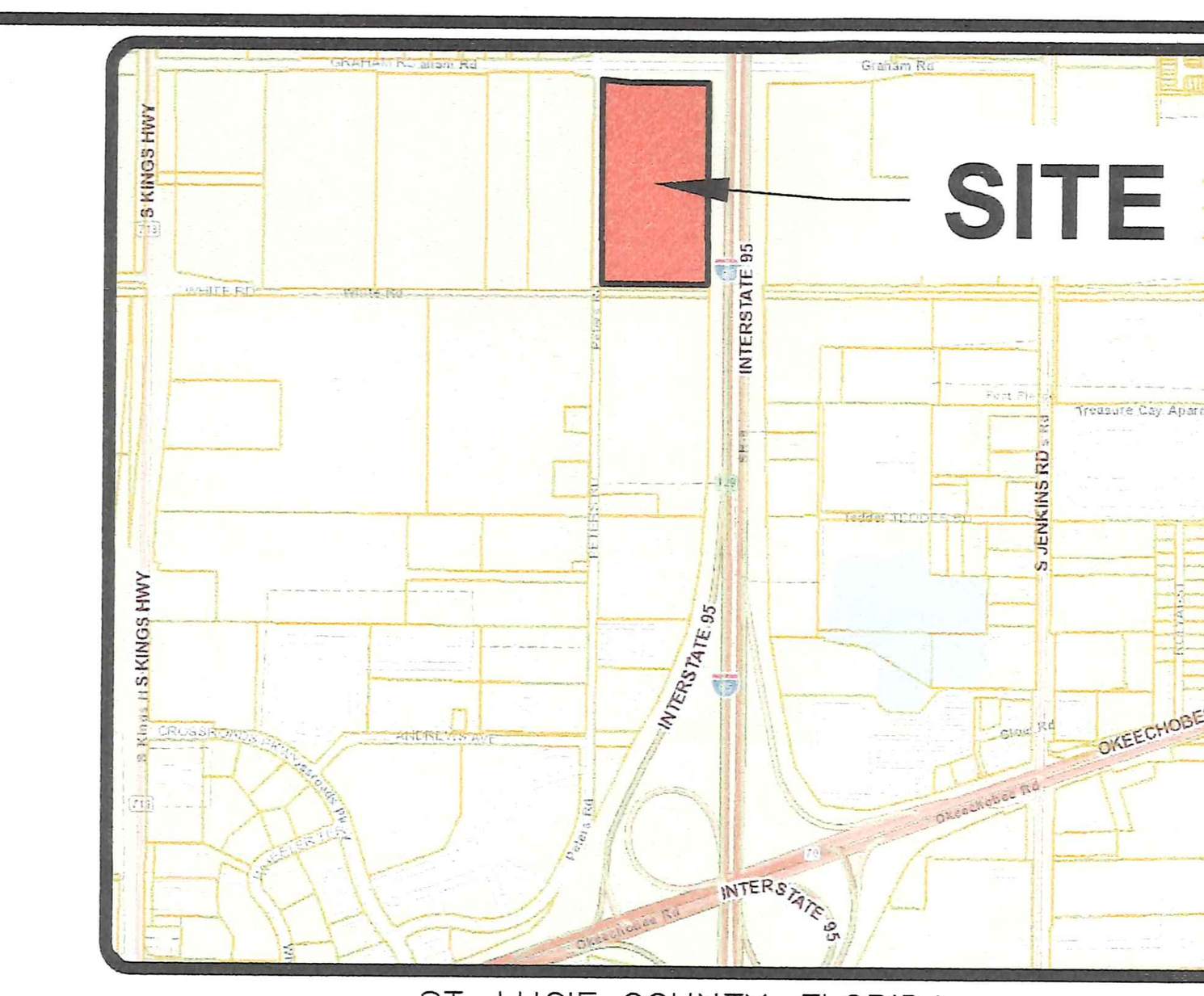
1. REPRODUCTIONS OF THIS MAP ARE NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. THIS SURVEY CANNOT BE TRANSFERRED OR ASSIGNED WITHOUT THE SPECIFIC WRITTEN PERMISSION OF ENGINEERING, DESIGN AND CONSTRUCTION, INC. IT IS A VIOLATION OF CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE, TO ALTER THIS SURVEY WITHOUT THE EXPRESS PRIOR WRITTEN CONSENT OF THE SURVEYOR. ADDITIONS AND/OR DELETIONS MADE TO THE FACE OF THIS SURVEY WILL MAKE THIS SURVEY INVALID.
2. THE LAST DATE OF FIELD WORK WAS JANUARY 5, 2021.
3. SITE ADDRESS: 2192 COPENHAVER ROAD, FORT PIERCE, FLORIDA.
4. CURRENT DESCRIPTION(S) SHOWN HEREON PROVIDED BY: THE CLIENT. ALL MATTERS OF RECORD SHOWN HEREON ARE SHOWN IN REFERENCE TO TITLE COMMITMENT PREPARED BY FIRST AMERICAN TITLE INSURANCE COMPANY, COMMITMENT NUMBER 2140-2672737, DATED DECEMBER 4, 2020.
5. PARCELS CONTAIN A TOTAL OF 17.45 ACRES ACRES, MORE OR LESS.
6. THE EXPECTED USE OF THE LAND, AS CLASSIFIED IN THE MINIMUM TECHNICAL STANDARDS (61G17-6 F.A.C.), IS "RESIDENTIAL." THE MINIMUM RELATIVE DISTANCE ACCURACY FOR THIS TYPE OF BOUNDARY SURVEY IS 1 FOOT IN 10,000 FEET. THIS SURVEY EXCEEDS THE REQUIRED DISTANCE ACCURACY.
7. ELEVATIONS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1989 (NAVD88) AND ARE BASED ON NGS CONTROL MONUMENT DESIGNATED I95 F 14, HAVING A PUBLISHED ELEVATION OF 46.99 FEET.
8. THIS BOUNDARY SURVEY HAS BEEN REFERENCED TO THE FLORIDA STATE PLANE BOUNDARY SYSTEM-EAST ZONE, NAD 83 (1990).
9. SUB-SURFACE IMPROVEMENTS INCLUDING UNDERGROUND UTILITIES, UTILITY SERVICES, WERE NOT LOCATED AS PART OF THIS SURVEY.
10. REVISIONS SHOWN HEREON DO NOT REPRESENT A "FIELD SURVEY UPDATE" UNLESS OTHERWISE NOTED.
11. BEARINGS SHOWN HERON ARE BASED UPON THE WEST LINE OF THE NORTHEAST 1/4 OF SECTION 24, ST. LUCIE COUNTY, FLORIDA PER THE LINE LABELED HERON AS (BEARING BASIS) AND ALL OTHER BEARINGS ARE RELATIVE THERETO. DISTANCES ARE IN U.S. SURVEY FEET AND DECIMAL PARTS THEREOF.
12. IN SOME INSTANCES, GRAPHIC REPRESENTATIONS AND SYMBOLS SHOWN HAVE BEEN EXAGGERATED TO MORE CLEARLY ILLUSTRATE THE RELATIONSHIP BETWEEN PHYSICAL IMPROVEMENTS AND/OR LOT LINES. THE DIMENSIONS SHOWN SHALL CONTROL THE LOCATION, OF THE IMPROVEMENTS, OVER THE SCALED POSITIONS.
13. THE OWNERSHIP OF PERIMETER FENCES, WALLS, HEDGES AND LANDSCAPING, IF ANY, SHOWN HEREON ARE NOT KNOWN AND ARE NOT LISTED AS ENCROACHMENTS. THEIR RELATIVE LOCATION IS SHOWN IN RELATION TO THE BOUNDARY LINES SHOWN.
14. THE SURVEY MAP SHOWN HEREON DOES NOT NECESSARILY CONTAIN ALL OF THE INFORMATION OBTAINED OR DEVELOPED BY THE UNDERSIGNED SURVEYOR IN HIS FIELD WORK, OFFICE WORK OR RESEARCH.
15. THE PROPERTY WHICH IS THE SUBJECT OF THIS SURVEY APPEARS TO BE SITUATE IN AN AREA OF MINIMAL FLOOD HAZARD AT THIS TIME PURSUANT TO F.E.M.A. FIRM NUMBER 12111C0167J, HAVING AN EFFECTIVE DATE OF FEBRUARY 16, 2012. FOR APPROXIMATE DELINEATION OF THE FLOOD ZONE LIMITS, REFER TO AFOREMENTIONED FIRM PANELS.
16. AT THE LOCATION SHOWN AS THE NORTHWEST CORNER OF THE NORTHEAST 1/4 OF THE SECTION HAS EVIDENCE OF PREVIOUS CONTROL/OCCUPATION. A #5 IRON ROD HAS BEEN RESET IN IT'S PLACE.

SYMBOL & ABBREVIATION LEGEND:

Symbol	Meaning
(A)	AIR RELEASE VALVE
AL	ARC LENGTH
ASPH	ASPHALT
BFP	BACK FLOW PREVENTER
	BENCHMARK (BM)
	BIKE RACK
CATV □	CABLE RISER
(C)	CALCULATED
	CATCH BASIN
℄	CENTERLINE
CCR	CERTIFIED CORNER RECORD
CLF	CHAIN LINK FENCE
CHD.	CHORD
CO ○	CLEAN OUT
COMM RISER □	COMMUNICATION RISER
CONC	CONCRETE
	CONCRETE LIGHT POST
CM	CONCRETE MONUMENT
CPP ⊠	CONCRETE POWER POLE (CPP)
	CONCRETE POWER POLE W/STREET LIGHT
	CONCRETE SIGNAL LIGHT POLE
CMP	CORRUGATED METAL PIPE
	CURB INLET
	DECORATIVE LIGHT POST
(D)	DEED
D.B.	DEED BOOK
ø	DIAMETER (DIA.)
(D)	DRAINAGE MANHOLE
DIP	DUCTILE IRON PIPE
E	EAST/EASTING
EOW	EDGE OF WATER
EB □	ELECTRIC BOX
EHH	ELECTRIC HAND HOLE (EHH)
EM ⊠	ELECTRIC METER
ELEC. PANEL	ELECTRICAL PANEL
EL./ELEV.	ELEVATION
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY
F.O.	FIBER OPTIC
FOHH	FIBER OPTIC HAND HOLE
	FIBER OPTIC MARKER
FIBER RISER □	FIBER OPTIC RISER
(M)	FIELD MEASURED
F.F.E.	FINISHED FLOOR ELEVATION
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION
FPL	FLORIDA POWER AND LIGHT
FT	FOOT
FM	FORCE MAIN
FND	FOUND
(F)	FPL MANHOLE
SQ FT.	SQUARE FEET
GAS ⋈	GAS VALVE
GIS	GEOGRAPHIC INFORMATION SYSTEMS
GND	GROUND
	GROUND LIGHT
	GUY WIRE ANCHOR
	HANDICAP
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HWF	HOG WIRE FENCE
HYD	HYDRANT
IN	INCH
INV	INVERT
IP	IRON PIPE
IR	IRON ROD
IR/C	IRON ROD AND CAP
⊠	IRRIGATION CONTROL VALVE
L	LENGTH
	LIGHT POST
MAG/D	MAG NAIL MAG BRAND NAIL
(M)	MAILBOX
M.C.	MARTIN COUNTY
MHWL	MEAN HIGH WATER LINE
MLWL	MEAN LOWER WATER LINE
	METAL LIGHT POST
MP	METAL PIPE
(W)	MONITORING WELL
MON	MONUMENT
NGVD29	NATIONAL GEODETIC VERTICAL DATUM OF 1929
N/D	NON DESCRIPT NAIL AND DISK
N.R.	NON RADIAL
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
N	NORTH OR NORTHING
No.	NUMBER
O.R.B.	OFFICIAL RECORDS BOOK
OHW	OVER HEAD WIRES
PG	PAGE
PCN	PARCEL CONTROL NUMBER
PK NAIL	PARKER-KALON NAIL
PK/D	PARKER-KALON NAIL & DISK
PCP	PERMANENT CONTROL POINT
PRM	PERMANENT REFERENCE MONUMENT
P.B.	PLAT BOOK
(P)	PLAT DATA
P.O.B.	POINT OF BEGINNING
P.O.C.	POINT OF COMMENCEMENT
P.C.C.	POINT OF COMPOUND CURVE
P.C.	POINT OF CURVATURE
P.T.	POINT OF TANGENCY
P.O.T.	POINT OF TERMINUS
PVC	POLYVINYL CHLORIDE
PSL	PORT SAINT LUCIE, FLORIDA
PLS	PROFESSIONAL LAND SURVEYOR
R	RADIUS
RGE	RANGE
RTK	REAL TIME KINEMATIC
RWV ⋈	RECLAIMED WATER VALVE
RLS	REGISTERED LAND SURVEYOR
RCP	REINFORCED CONCRETE PIPE
R/W	RIGHT-OF-WAY
R/C	ROD AND CAP
(S)	SANITARY MANHOLE
SV ⋈	SANITARY VALVE
SEC	SECTION
○	PROPERTY CORNER
◉	RIGHT-OF-WAY CONTROL
	SIGN
S	SOUTH
	SPIGOT
	SPRINKLER VALVE
S.L.C.	ST. LUCIE COUNTY
STA	STATION
(D)	STORMWATER DRAINAGE MANHOLE
	STREET SIGN
TELE RISER □	TELEPHONE RISER BOX
TOE	TOE OF SLOPE
TOB	TOP OF BANK/BERM
T.O.N.	TOP OF NUT
X 0.0	TOPOGRAPHIC DATA (SOFT SURFACE)
X 0.00	TOPOGRAPHIC DATA (HARD SURFACE)
TWNSHP	TOWNSHIP
(T)	TRAFFIC HANDHOLD
TSCB	TRAFFIC SIGNAL CONTROL BOX
TYP	TYPICAL
UNK	UNKNOWN
UNK HH	UNKNOWN HANDHOLD
RISER BOX □	UNKNOWN RISER BOX
(U)	UNKNOWN TYPE MANHOLE
VCP	VITRIFIED CLAY PIPE
WM	WATER METER
(W)	WATER SERVICE METER (WM)
WV ⋈	WATER VALVE (WV)
W	WEST
WF	WOOD FENCE
	WOOD POLE STREET LIGHT
	WOOD POWER POLE

Zoning District		Maximum Gross Density (Du/Ac)	Minimum Lot Size (sf)	Minimum Lot Width	Minimum Road Frontage	Minimum Yard				Max. Hht.	Max. Lot Coverage by Buildings
						Front	Rear	Side	Side @ corner		
RS-2	RESIDENTIAL, SINGLE-FAMILY - 2	2.00	15,000	100.00	30.00	25(I)	15(g)(I)	10(I)	20(I)	35.00	20%





ST. LUCIE COUNTY, FLORIDA
VICINITY MAP
NO SCALE

LEGAL DESCRIPTION:

THAT PORTION OF THE WEST 1/2 OF THE SW 1/4 OF THE SE 1/4, LYING WEST OF THE WESTERLY RIGHT OF WAY LINE OF I-95, OF SECTION 13, TOWNSHIP 35 SOUTH, RANGE 39 EAST, LYING AND BEING IN ST. LUCIE COUNTY, FLORIDA, LESS AND EXCEPT ROAD RIGHTS OF WAY FOR I-95; GRAHAM ROAD; COPENHAVER ROAD AND LESS CANAL RIGHTS OF WAY FOR NSLRDD CANAL NO. 37 ON SOUTH LINE.

CONTAINING 17.45 ACRES ACRES, MORE OR LESS.

SCHEDULE B-II ITEMS

TITLE COMMITMENT PREPARED BY
FIRST AMERICAN TITLE INSURANCE COMPANY
COMMITMENT # 2140-2672737
COMMITMENT DATE: DECEMBER 4, 2020, AT 8:00 AM

1. DEFECTS, LIENS, ENCUMBRANCES, ADVERSE CLAIMS OR OTHER MATTERS, IF ANY, CREATED, FIRST APPEARING IN THE PUBLIC RECORDS OR ATTACHING SUBSEQUENT TO THE EFFECTIVE DATE BUT PRIOR TO THE DATE THE PROPOSED INSURED ACQUIRES FOR VALUE OF RECORD THE ESTATE OR INTEREST OR MORTGAGE THEREON COVERED BY THIS COMMITMENT.
   AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
2. ANY RIGHTS, INTERESTS, OR CLAIMS OF PARTIES IN POSSESSION OF THE LAND NOT SHOWN BY THE PUBLIC RECORDS.
   AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
3. ANY ENCROACHMENT, ENCUMBRANCE, VIOLATION, VARIATION OR ADVERSE CIRCUMSTANCE AFFECTING THE TITLE THAT WOULD BE DISCLOSED BY AN ACCURATE AND COMPLETE LAND SURVEY OF THE LAND.
   SHOWN HEREON.
4. ANY LIEN, FOR SERVICES, LABOR, OR MATERIALS IN CONNECTION WITH IMPROVEMENTS, REPAIRS OR RENOVATIONS PROVIDED BEFORE, ON, OR AFTER DATE OF POLICY, NOT SHOWN BY THE PUBLIC RECORDS.
   AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
5. ANY DISPUTE AS TO THE BOUNDARIES CAUSED BY A CHANGE IN THE LOCATION OF ANY WATER BODY WITHIN OR ADJACENT TO THE LAND PRIOR TO DATE OF POLICY, AND ANY ADVERSE CLAIM TO ALL OR PART OF THE LAND THAT IS, AT DATE OF POLICY, OR WAS PREVIOUSLY UNDER WATER.
   AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
6. TAXES OR SPECIAL ASSESSMENTS NOT SHOWN AS LIENS IN THE PUBLIC RECORDS OR IN THE RECORDS OF THE LOCAL TAX COLLECTING AUTHORITY, AT DATE OF POLICY.
   AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
7. ANY MINERALS OR MINERAL RIGHTS LEASED, GRANTED OR RETAINED BY CURRENT OR PRIOR OWNERS.
   AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
8. TAXES AND ASSESSMENTS FOR THE YEAR 2021 AND SUBSEQUENT YEARS, WHICH ARE NOT YET DUE AND PAYABLE.
   AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
9. EASEMENT GRANTED TO FLORIDA POWER & LIGHT COMPANY RECORDED IN BOOK 452, PAGE 1600 AND IN BOOK 680, PAGE 1696.
   EASEMENTS DO NOT AFFECT SUBJECT PROPERTY.
10. NOTICE OF CONSENT ORDER RECORDED IN BOOK 3738, PAGE 2484.
    AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
11. TERMS AND CONDITIONS OF ANY EXISTING UNRECORDED LEASE(S), AND ALL RIGHTS OF LESSEE(S) AND ANY PARTIES CLAIMING THROUGH THE LESSEE(S) UNDER THE LEASE(S).
    AFFECTS SUBJECT PROPERTY; NOT A SURVEY MATTER.
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    NOT A SURVEY MATTER.

ALTA CERTIFICATION:

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 3, 4, 8, 11, 13, 14, 15, 16, & 19 OF TABLE A THEREOF. THE FIELDWORK WAS COMPLETED ON JANUARY 5, 2021.

MICHAEL T. OWEN License Number 5556 STATE OF FLORIDA Professional Surveyor and Mapper

1-8-2021

MICHAEL T. OWEN PROFESSIONAL SURVEYOR AND MAPPER SIGNATURE DATE:
FLORIDA REGISTRATION #5556

EDC
ENGINEERS ⊕ SURVEYORS ENVIRONMENTAL
10250 VILLAGE PARKWAY
UNIT 201
PORT ST. LUCIE, FL 34987
☎ 772-462-2455
www.edc-inc.com
F.B.P.E. CERTIFICATE OF AUTHORIZATION 9935
L.B. CERTIFICATE OF AUTHORIZATION 8098

SPT	MTO	RH	20-426 ALTA.dwg	LAYOUT1	AS SHOWN	December 23, 2020
DRAWN BY	CHECKED BY	FIELD CREW	FILENAME	LAYOUT	SCALE	DATE

DATE | REVISION COMMENTS

ALTA/NSPS LAND TITLE SURVEY
FOR: R.V. DEVELOPMENT
THE W. 1/2 OF THE S.E. 1/4 OF THE S.W. 1/4 OF SEC. 13, TWNSHP. 35 SOUTH, RGE. 39 EAST
ST. LUCIE COUNTY, FLORIDA

10250 VILLAGE PARKWAY
UNIT 201
PORT ST. LUCIE, FL 34987
☎ 772-462-2455

20-426

1 OF 1

Z:\EDC-2020\20-426 - MacRitchie - 2192 Copenhaver Rd FP\SURVEY\Dwg - PDF\Survey\20-426 ALTA.dwg, 1/8/2021 9:25 AM
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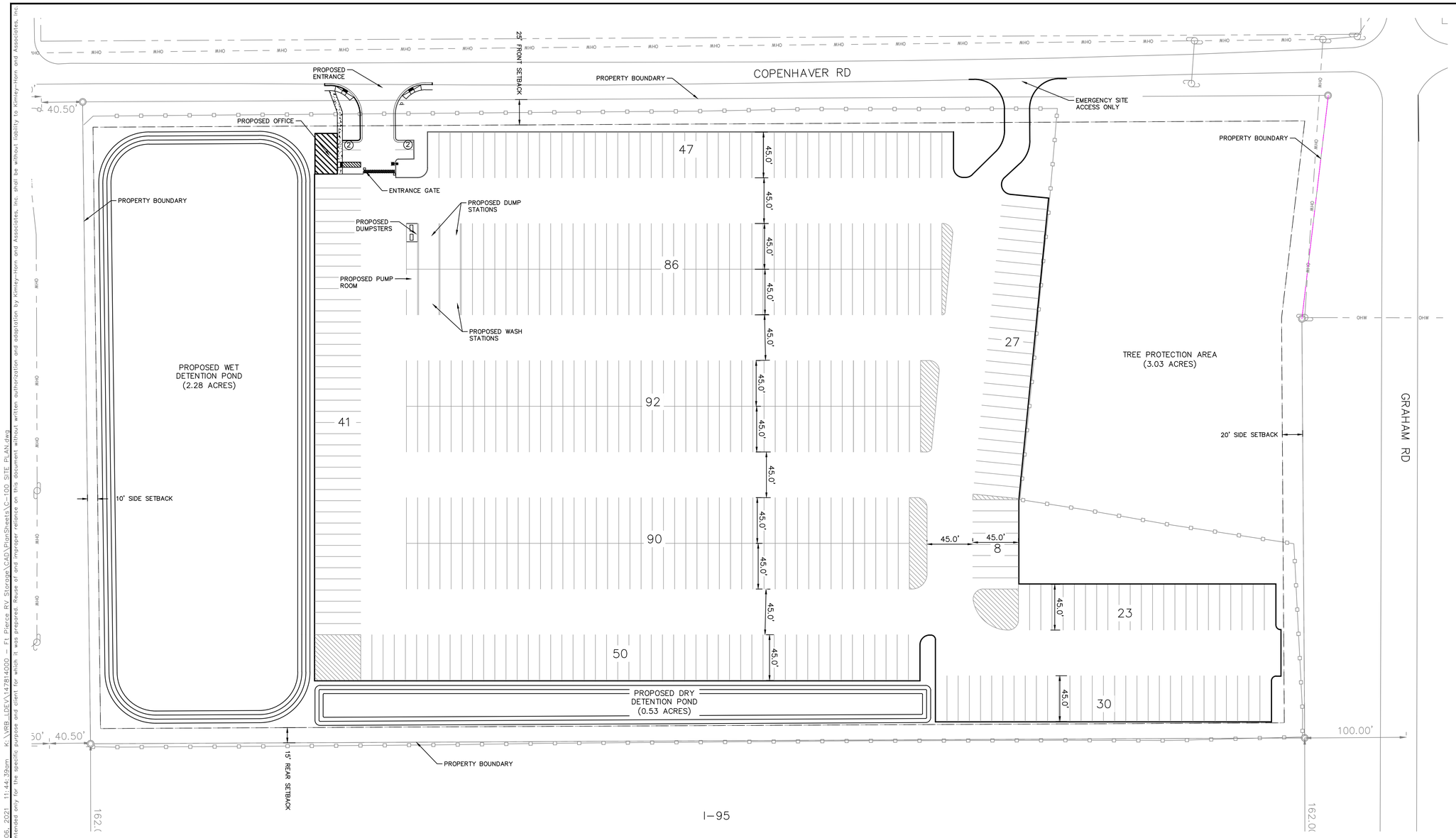


DEVELOPMENT DATA			
TAX PARCEL ID NO.	2313-432-0000-000-4		
ADDRESS	2192 COPENHAVER ROAD, FORT PIERCE, FL		
PROJECT USE	RV STORAGE FACILITY		
PROJECT ZONING	C-3		
RV SPACES PROPOSED	494 SPACES		
STANDARD SPACES PROPOSED	3 SPACES		
ACCESSIBLE SPACES PROPOSED	1 SPACE		
TOTAL AREA OF TRACT	760,033 SF	17.45 AC	100%
AREA OF PROPOSED BUILDINGS	880 SF	0.02 AC	0.12%
AREA OF PROPOSED PAVEMENT	414,267 SF	9.51 AC	54.51%
TOTAL PROPOSED IMPERVIOUS AREA	572,597 SF	12.34 AC	70.72%
AREA OF PROPOSED OPEN SPACE	222,374 SF	5.11 AC	29.26%
AREA OF PROPOSED POND	122,404 SF	2.81 AC	16.11%
OPEN SPACE REQUIRED	145,133 SF	3.33 AC	15%

OWNER
R V DEVELOPMENT, LLC
547 WASH ROBERTS LANE
MC MINNVILLE, TN, 37110

DEVELOPER
BEN LOKHORST
MACRITCHIE STORAGE VENTURES, LLC
715 5TH AVENUE, SW, SUITE 1700
CALGARY AB T2P 2X6
PHONE: 403-973-4882

FLOOD ZONE
PROPERTY LIES WITHIN FLOOD ZONE "X", ACCORDING TO THE F.I.R.M. MAP NO. 12111C0167J, DATE 02/16/2012.

LEGAL DESCRIPTION
THAT PORTION OF THE WEST 1/2 OF THE SW 1/4 OF THE SE 1/4 , LYING WEST OF THE WESTERLY RIGHT OF WAY LINE OF I-95, OF SECTION 13, TOWNSHIP 35 SOUTH, RANGE 39 EAST, LYING AND BEING IN ST. LUCIE COUNTY, FLORIDA, LESS AND EXCEPT ROAD RIGHTS OF WAY FOR I-95; GRAHAM ROAD; COPENHAVER ROAD AND LESS CANAL RIGHTS OF WAY FOR NSLRDD CANAL NO. 37 ON SOUTH LINE

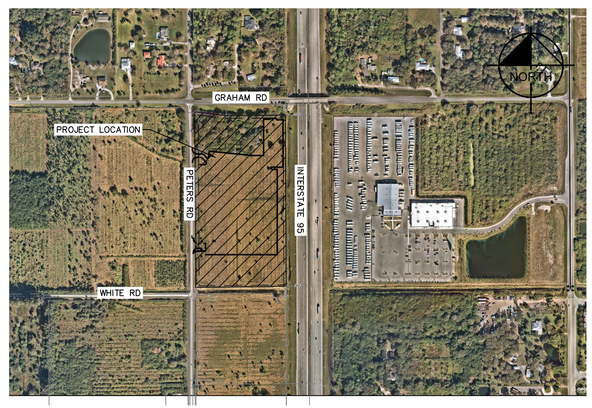
CONTAINING 17.45 ACRES ACRES, MORE OR LESS.

VERTICAL DATUM
THE ELEVATIONS SHOWN HERON ARE BASED ON THE NORTH AMERICAN DATUM OF 1988.

GENERAL NOTES:

1. HAZARDOUS WASTE DISPOSAL SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS
2. ALL LANDSCAPE AREAS ABUTTING VEHICULAR USE AREAS SHALL BE CURBED OR PROTECTED BY CURB STOPS.
3. ALL BUILDING, PARKING AND ACCESS AREAS SHALL DOCUMENT COMPLIANCE WITH THE REQUIREMENTS OF THE AMERICAN DISABILITIES ACT PRIOR TO THE ISSUANCE OF BUILDING PERMIT.
4. SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE IN THE PLACE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
5. LANDSCAPING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 153 OF THE LANDSCAPE CODE OF THE CITY OF PORT ST. LUCIE.
6. NO LANDSCAPING OTHER THAN GRASSES SHALL BE LOCATED WITHIN 10' OF A CITY UTILITY LINE OR APPURTENANCE. ALL OTHER UTILITIES SHALL BE A MINIMUM OF 5' HORIZONTAL SEPARATION FROM CITY UTILITY MAINS FOR PARALLEL INSTALLATIONS AND A MINIMUM 18" BELOW CITY MAINS. (ALL MEASUREMENTS ARE TAKEN FROM OUTSIDE TO OUTSIDE)
7. NO LANDSCAPING SHALL BE PLACED IN A MANNER THAT WOULD CREATE CONFLICTS WITH THE INTENDED OPERATION AND MAINTENANCE OF ANY EXISTING UTILITY.
8. THIS APPLICATION IS NOT VESTED FOR ANY MUNICIPAL FEES. ALL FEES ARE CALCULATED AT TIME OF PAYMENT. THIS INCLUDES SPECIFICALLY IMPACT FEES, UPLAND PRESERVE FEES AND ANY ADMINISTRATIVE REVIEW FEES FOR CITY DEPARTMENTS. NO FEES ARE VESTED BASED ON DATE OF CITY COUNCIL APPROVAL.
9. SIGNS ARE NOT PART OF THIS REVIEW AND SHALL BE PERMITTED SEPARATELY FROM THE APPLICATION. (SEE CHAPTER 155 (SIGN CODE) CITY OF PORT ST. LUCIE LAND DEVELOPMENT REGULATIONS.)
10. THE PROPERTY OWNER, CONTRACTOR, AND AUTHORIZED REPRESENTATIVES SHALL PROVIDE PICKUP, REMOVAL, AND DISPOSAL OF LITTER WITHIN THE PROJECT LIMITS AND SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE AREA FROM THE EDGE OF PAVEMENT TO THE PROPERTY LINE WITH IN THE CITY'S RIGHT-OF-WAY IN ACCORDANCE WITH CITY CODE, SECTION 41.08 (G)
11. FENCE POSTS SHOULD AVOID UTILITY SERVICE LINES AT ALL TIMES.
12. UTILITY SERVICES CAN BE CONNECTED ONLY AFTER THE MAINS ARE INSTALLED AND TURNED OVER TO THE CITY.

BUILDING SETBACKS	
	SETBACK
NORTH	20 FT
SOUTH	10 FT
EAST	15 FT
WEST	25 FT



LOCATION MAP
SCALE: 1"=1000'

No.	REVISIONS	DATE	BY

Kimley»Horn
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445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000696

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LICENSED PROFESSIONAL ENGINEER ROBERT BLAINE BERGSTRESSER LICENSE No. 84566 STATE OF FLORIDA PROFESSIONAL ENGINEER DATE: 10/1/2021

KHA PROJECT 147814000
DATE 04/06/2021
SCALE AS SHOWN
DESIGNED BY BRB
DRAWN BY TJE
CHECKED BY BRB

SITE PLAN

FORT PIERCE RV STORAGE

FT. PIERCE FL

SHEET NUMBER
C-100

Posted By:Enright, Tyler Sheet Set:FT PIERCE RV STORAGE Layout:C-100 SITE PLAN April 06, 2021 11:44:39am K:\VRB_LDEV\147814000 - Ft Pierce RV Storage\CAD\PlanSheets\C-100 SITE PLAN.dwg
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Natural Resource Assessment

RV Storage Ft. Pierce

St. Lucie County, Florida

Prepared for:
Macritchie Storage Ventures, LLC
715 5th Avenue, SW, Suite 1700
Calgary AB T2P 2X6, Canada

147814000
March 2021
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445 24th Street, Suite 200
Vero Beach, FL 32960

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Natural Resource Assessment
Technical Memorandum

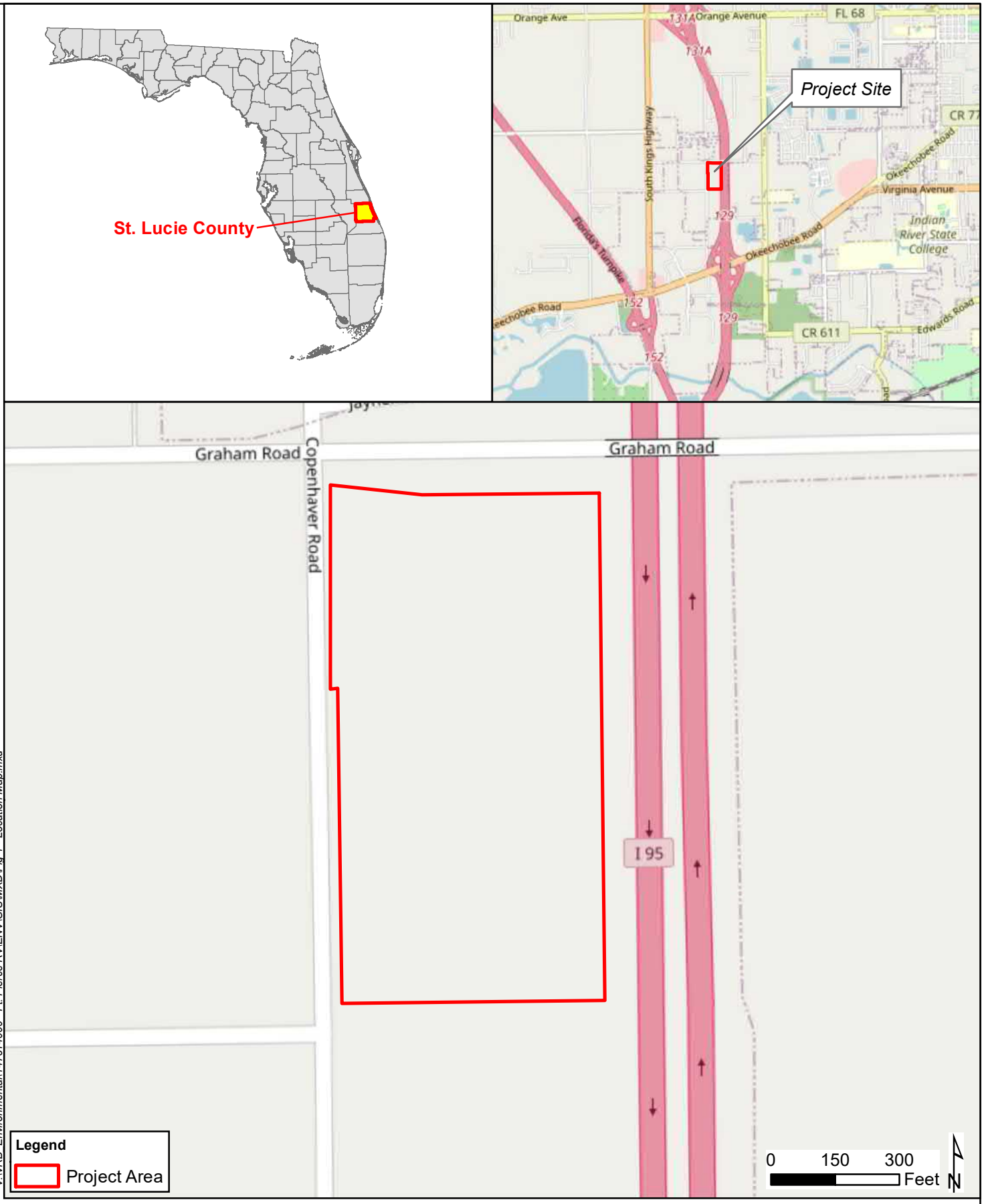
RV Storage Ft. Pierce
St. Lucie County, Florida

1.0 INTRODUCTION

The following technical memorandum summarizes a review of readily available documentation and the results of field reconnaissance conducted at the project site. The purpose of this Natural Resource Assessment was to characterize the existing conditions of the above-referenced project site relative to threatened and endangered species and their habitat, ecological communities, land cover and vegetation, wetlands, soils, hydrology, archaeological and historical resources, and floodplains.

The scope of this assessment included field reconnaissance to determine habitat present and to determine environmental regulatory constraints for this project site.

The project site is approximately 17 acres and is located in Fort Pierce, near the southeast corner of Graham Road and Copenhaver Road in Section 13, Township 35 South, Range 39 East, St. Lucie County, Florida. A location map is attached as ***Figure 1***. A portion of the U.S. Geological Service (USGS) 7.5-Minute Providence, Florida quadrangle map depicting the location of the project site is attached as ***Figure 2***. Based on review of the USGS quadrangle map, elevations on the project site are approximately 10 feet.



V:\VRB Environmental\147814000 - Ft. Pierce RV\ENV\GIS\MXD\Fig 1 - Location Map.mxd

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Project Location Map

Ft. Pierce RV Natural Resource Assessment
St. Lucie County, Florida

1 inch = 300 feet	PROJECT NUMBER: 147814000	FEBRUARY 2021	FIGURE 1



V:\VRB Environmental\147814000 - Ft. Pierce RV\ENV\GIS\MXD\Fig 2 - USGS Map.mxd

Source: ESRI, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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USGS 7.5 Minute Quadrangle Map

Ft. Pierce RV Natural Resource Assessment
St. Lucie County, Florida

1 inch = 1,000 feet	PROJECT NUMBER: 147814000	FEBRUARY 2021	FIGURE 2

2.0 METHODOLOGY

The methodology for this assessment included a review of the following resources:

- Florida Natural Areas Inventory (FNAI) Biodiversity Matrix (http://www.fnai.org/biointro.cfm)
- Various Geographic Information System (GIS) data layers from the U.S. Fish and Wildlife Service (USFWS), U.S. Geological Survey (USGS), Florida Fish and Wildlife Conservation Commission (FWC) [(https://public.myfwc.com/FWRI/EagleNests/nestlocator.aspx)]
- USFWS IPaC data [(https://ecos.fws.gov/ipac/)]
- U.S. Department of Agriculture (USDA)/Natural Resources Conservation Service (NRCS) Soil Survey of St. Lucie County, Florida (http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx)
- State Historic Preservation Officer (SHPO), Florida Master Site File (http://www.flheritage.com/)
- USFWS National Wetlands Inventory (NWI) Maps (Web-based maps available from http://www.fws.gov/wetlands/Data/mapper.html)
- Federal Emergency Management Agency (FEMA) Digital Flood Insurance Rate Maps (FIRM; Web-based maps available from http://msc.fema.gov/)
- United States Geological Survey (USGS) Quadrangle Maps, Land Boundary Information System (LABINS; http://www.labins.org)
- South Florida Water Management District Interactive GIS Map (SFWMD.gov)
- Florida Department of Environmental Protection (FDEP) MapDirect GIS (https://floridadep.gov)
- St. Lucie County Land Development Code

On March 10, 2021 a field review of the project limits was conducted by environmental scientists to document the existing habitat conditions and determine potential wildlife utilization. The field review also included a 15% gopher tortoise survey.

3.0 EXISTING CONDITIONS

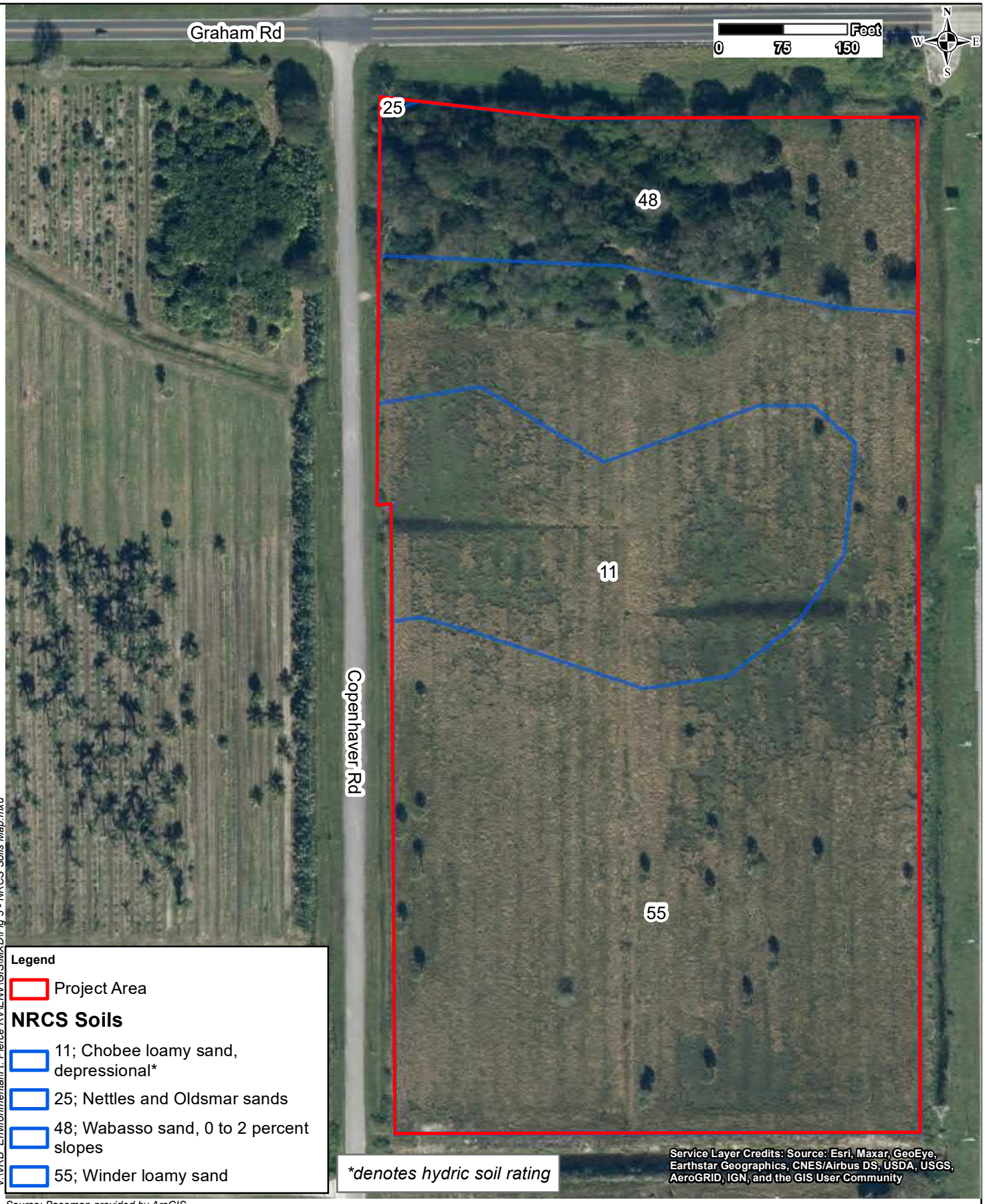
3.1 SOILS

The USDA/NRCS *Soil Survey of St. Lucie County, Florida,* maps the following soil on the property: (11) Chobee Loamy Sand, (25) Nettles and Oldsmar Sands, (48) Wabasso Sand, and (55) Winder Loamy Sand. A copy of the digital USDA/NRCS soils mapping data is illustrated in ***Figure 3*** and details regarding each soil are provided in ***Table 1***.

Table 1
NRCS Soils Identified Within Study Area

Soil ID Number[1]	Soil Name	Occurrence[2]	Characteristics	Drainage Class	Groundwater Depth	Hydric, Hydric Inclusions, or Non-hydric
11	Chobee Loamy Sand	Depressional areas	Moderately rapid to very slow permeability	Very poorly drained	Above surface to 10 inches	Hydric
25	Nettles and Oldsmar Sands	Broad flats and depressional areas	Very slow to slow	Poorly drained	10-40 inches	Non-hydric
48	Wabasso Sand	Flatwood areas	Rapid to moderately slow permeability	Poorly drained	10-40 inches	Non-hydric
55	Winder Loamy Sand	Depressional areas	Rapid to slow permeability	Poorly drained	10-40 inches	Non-hydric

[1] Reference: https://www.nrcs.usda.gov/Internet/FSE_MANUSCRIPTS/florida/FL111/0/lucie.pdf
[2] Reference: https://soilseries.sc.egov.usda.gov/OSD_Docs/A/ANKONA.html



V:\VRB Environmental\Ft. Pierce RV\ENV\GIS\MXD\Fig 3 - NRCS Soils Map.mxd

Source: Basemap provided by ArcGIS

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NRCS Soils Map

Ft. Pierce RV Natural Resource Assessment
St. Lucie County, Florida

1 inch = 150 feet	PROJECT NUMBER: 147814000	FEBRUARY 2021	FIGURE 3

3.2 LAND COVER AND NATURAL COMMUNITIES

Vegetative communities on the project site were identified through pedestrian transects and aerial photograph interpretation. Vegetative communities were classified using the *Florida Land Use, Cover, and Forms Classification System* (FLUCFCS, Florida Department of Transportation, 1999). A FLUCFCS map of the project site is attached as ***Figure 4***. The description of the upland land cover provided below characterizes dominant vegetation observed along random pedestrian transects and does not represent an all-inclusive vegetative inventory.

FLUCFCS 211 – IMPROVED PASTURES

This cover type encompassed approximately 13.25 acres of the project site and was primarily made up of smut grass (*Sporobolus indicus*) with scattered cabbage palm (*Sabal palmetto*), laurel oak (*Quercus laurifolia*), live oak (*Quercus virginiana*), and Brazilian pepper (*Schinus terebinthifolius*).

FLUCFCS 420 – UPLAND HARDWOOD FOREST

This cover type encompassed approximately 2.74 acres of the project site. The canopy was primarily made up of mature live oak and laurel oak, and cabbage palm. The understory included Brazilian pepper, saw palmetto (*Serenoa repens*), lantana (*Lantana camara*), and clover (*Trifolium* spp.).

3.3 WETLANDS, TIDAL WATERS AND OTHER SURFACE WATERS

The presence of wetlands was evaluated based on the Florida unified wetland delineation methodologies in accordance with Chapter 62-340, Florida Administrative Code (FAC) and Chapter 62-331 FAC under the State 404 Program. These methods consider prevalence of wetland vegetation, hydric soil indicators, and wetland hydrology. Surface waters include both natural and manmade bodies of water, such as streams, lakes, ponds, canals, and ditches. Based on initial database review and subsequent assessment of the vegetative communities, hydrologic conditions, and soils observed during on-site reconnaissance, there appears to be approximately 0.96 acres of wetlands and surface waters on-site.

FLUCFCS 510 – STREAMS AND WATERWAYS

This cover type encompassed approximately 0.14 acres of the project site and encompasses a surface water through the central portion of the property, which does not appear to connect to any other waterways. This surface water feature appears to have been historically excavated.

FLUCFCS 643 – WET PRAIRIES

This cover type encompassed approximately 0.82 acres of the project site and was primarily made up of smartweed (*Persicaria setacea*), hydrocotyl (*Hydrocotyle vulgaris*), torpedo grass (*Panicum repens*), jointed spikerush (*Eleocharis interstincta*), pickerel weed (*Pontederia cordata*), beaksedge (*Rhynchospora spp*.), and occasional smut grass.

3.4 WILDLIFE UTILIZATION

Wildlife observed included the mourning dove (*Zenaida macroura*), black vulture (*Coragyps atratus*), great blue heron (*Ardea herodias*), and monarch butterfly (*Danaus plexippus*).

3.5 ENDANGERED, THREATENED, AND SPECIES OF SPECIAL CONCERN

A list of protected species potentially occurring within the project vicinity was generated using the databases described in Section 2.0 Methodology. Information regarding previously documented occurrences, on-site observations conducted as part of this assessment, and likelihood of occurrence is summarized below.

FNAI – The FNAI report includes data from FNAI Matrix Unit 65769 (***Appendix A***). Based on the FNAI report, there are no documented listed species within the vicinity of the site. FNAI lists wood storks (*Mycteria Americana*) as likely to occur within the matrix unit.

FWC – There are no known wading bird colonies on, or within one mile of, the project site. Additionally, no bald eagles (*Haliaeetus leucocephalus*) or evidence of bald eagles were observed on the project site and there are no documented occurrences of bald eagles or their nests within one mile of the project site. No further coordination is anticipated regarding these species.

USFWS Consultation Areas – The project site is in the below-listed USFWS Consultation Areas.

- Audubon's crested caracara
- Florida scrub-jay
- Everglade snail kite
- Grasshopper sparrow

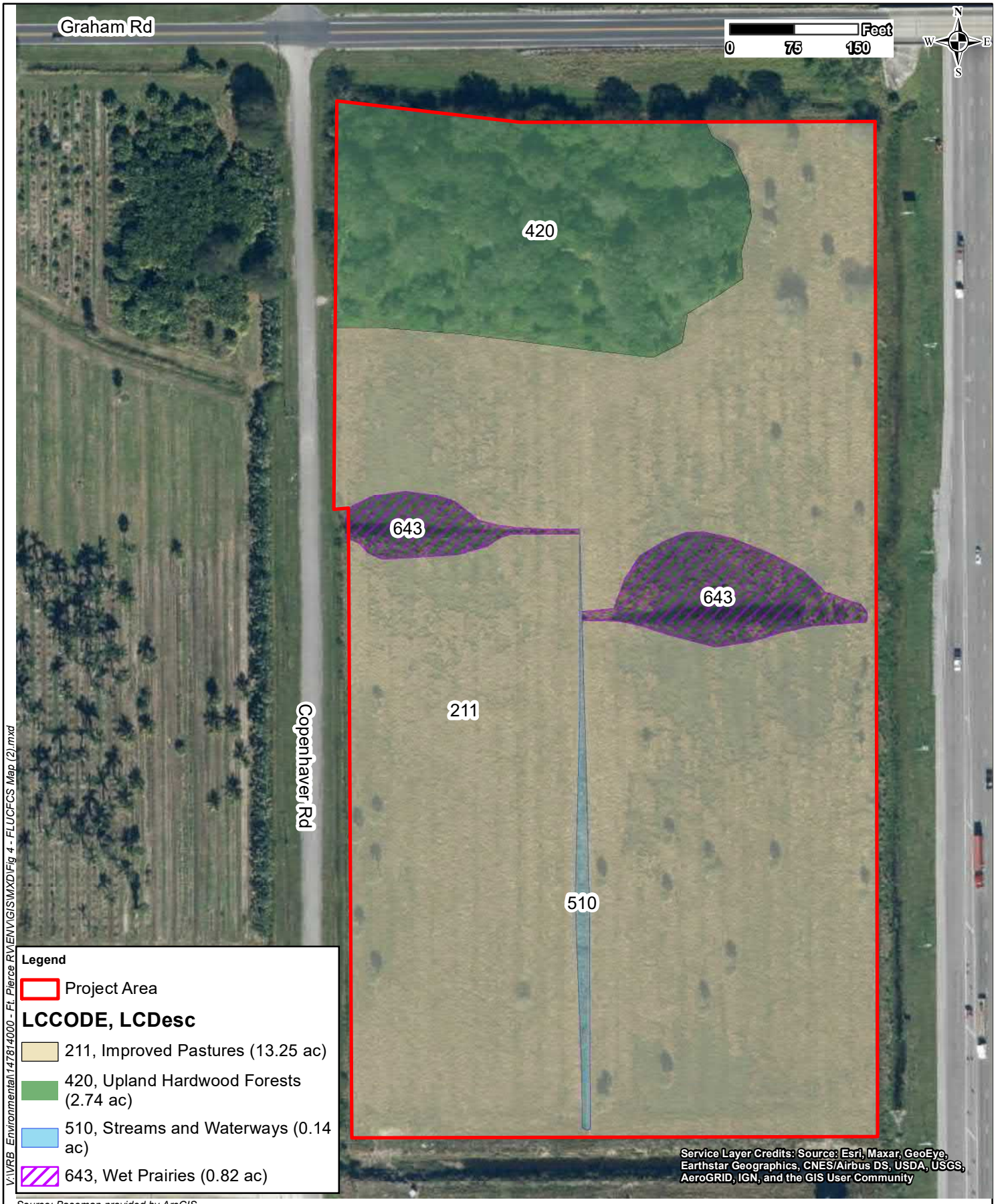
Habitat for the Florida scrub-jay, everglade snail kite, and grasshopper sparrow does not occur on-site, thus, no further coordination regarding these species is anticipated. Suitable habitat for the Audubon's crested caracara is present on-site, and the species is discussed further below.

USFWS Wood Stork Colonies – The project site is within the core foraging area (CFA) of two known wood stork colonies, North Fork St. Lucie River and Cypress Creek Bluefield Road. The CFA for an active wood stork colony is defined as a circular area within an 18.6-mile radius from the wood stork colony. Potential wood stork foraging habitat exists within the wetlands and surface water on-site. More on this is discussed below.

USFWS IPaC Data – The IPaC Trust Resources includes historical data in their reporting, which results in some species findings that do not reflect current on-site conditions. The following species are listed in the data and have suitable habitat within the project site: wood stork and Audubon's crested caracara. Species listed in the data that do not have suitable habitat on-site include: Everglade snail kite, Florida grasshopper sparrow, whooping crane, American alligator, hawksbill sea turtle, leatherback sea turtle, loggerhead sea turtle, Miami blue butterfly, Florida panther, and southeastern beach mouse. This dataset confirmed that the project site is not within any USFWS designated Critical Habitat (***Appendix A***).

Based on field reconnaissance and database reviews, a list of state and federally listed species potentially occurring on, or within the immediate vicinity of, the project site has been compiled. ***Table 2*** lists species that may occur and their likelihood of occurrence. Likelihood of occurrence is based on actual observation of the species, signs of the species (burrows, tracks, scat, etc.), observance of suitable habitat, or documented occurrences of the species within various databases.

Table 2						
Potential Listed Species Occurrence						
Common Name		Scientific Name	Federal Status	State Status	Comments	Likelihood of Occurrence
Birds	Wood Stork	*Mycteria americana*	T	FT	Observed On-site: No Observed in Proximity: No Habitat Present: Yes Habitat Type: Foraging	Moderate
	Audubon's Crested Caracara	*Polyborus plancus audubonii*	T	FT	Observed On-site: No Observed in Proximity: No Habitat Present: Yes Habitat Type: Nesting/foraging	Moderate
	Burrowing Owl	*Athene cunicularia*	NL	ST	Observed On-site: No Observed in Proximity: No Habitat Present: Marginal Habitat Type: Burrowing/foraging	Low
	Southeastern American Kestrel	*Falco sparverius paulus*	NL	ST	Observed On-site: No Observed in Proximity: No Habitat Present: Yes Habitat Type: Nesting/foraging	Moderate
	Florida Sandhill Crane	*Grus canadensis pratensis*	NL	ST	Observed On-site: No Observed in Proximity: No Habitat Present: Yes Habitat Type: Nesting/foraging	Moderate
Reptiles	Eastern Indigo Snake	*Drymarchon corais couperi*	T	FT	Observed On-site: No Observed in Proximity: No Habitat Present: Marginal Habitat Type: foraging	Low
	Gopher Tortoise	*Gopherus polyphemus*	C	ST	Observed On-site: No Observed in Proximity: No Habitat Present: Yes Habitat Type: Burrowing/foraging	Moderate
Federal Status: E = Endangered; T = Threatened; T(S/A) = Threatened due to Similarity of Appearance; C = Candidate Species; NL = Not Listed. State Status: FE- Federally Endangered; FT – Federally Threatened; FT(S/A) – Federally Threatened due to Similarity of Appearance; ST- State Threatened; SSC = Species of Special Concern. Note: Coordination is not required with FWC for Federally listed species.						



V:\VRB Environmental\147814000 - Ft. Pierce RV\ENV\GIS\MXD\Fig 4 - FLUCFCS Map (2).mxd

Source: Basemap provided by ArcGIS

Kimley»Horn

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445 24th Street, Suite 200, Vero Beach, FL 32960
Phone (772) 794-4100
www.kimley-horn.com

FLUCFCS Map

Ft. Pierce RV Natural Resource Assessment
St. Lucie County, Florida

1 inch = 150 feet	PROJECT NUMBER: 147814000	MARCH 2021	FIGURE 4

Based on the database review and field reconnaissance, the following species could occur on-site or require additional evaluation, survey, or permitting.

Eastern Indigo Snake

The eastern indigo snake occurs in a range of habitats, including pine flatwoods, scrubby flatwoods, high pine, dry prairie, tropical hardwood hammocks, edges of freshwater marshes, agricultural fields, coastal dunes, and human-altered habitats. The snake requires large tracts of land to survive and often winters in burrows of gopher tortoises, armadillos, cotton rats, and land crabs (in coastal areas) and forages in hydric habitats. No individuals were observed during field reconnaissance; however, marginal habitat for the eastern indigo snake does exist on-site. Thus, per the Eastern Indigo Snake Effect Determination Key (August 13, 2013), if the USFWS *Standard Protection Measures for the Eastern Indigo Snake* (***Appendix B***) are implemented during construction, impacts to the Eastern indigo snake are not anticipated to occur, and no further action is anticipated.

Audubon's Crested Caracara

The Audubon's crested caracara inhabits wet prairies with cabbage palms and may also be found in wooded areas with saw palmetto, pastures and farmlands, cypress, and scrub oaks. During field reconnaissance, potential nesting and foraging habitat for the caracara was observed on-site. Thus, consultation with USFWS and a crested caracara survey is recommended to determine the presence or absence of a nest onsite. Surveys must adhere to the *USFWS Crested Caracara Draft Survey Protocol Additional Guidance (2016-2017 Breeding Season)* (***Appendix C***) and begin no later than January 10 and continue through April 30.

Wood Stork

The wood stork inhabits both fresh and saltwater habitats, such as fresh and saltwater marshes, tidal flats, wet prairies, cypress swamps, and drainage features. As part of the Effect Determination Key for the Wood Stork in South Florida, 18.6-mile core foraging area (CFA) buffers were established around known wood stork colonies. These buffers monitor proposed impacts to suitable foraging habitats (SFH) for the wood stork, which include shallow-water areas containing relatively open (<25% aquatic vegetation) water with a permanent or seasonal water depth between 2 and 15 inches. No wood storks were observed during field reconnaissance; however, the surface water and wetlands on-site

provides SFH for wood storks. Therefore, if impacts to the surface water or wetlands are anticipated, coordination regarding the wood stork will be required with the SFWMD and a wood stork foraging assessment may be required. Further discussion is provided in Section 4.3 below.

Burrowing Owl

The Florida burrowing owl is a small, ground-dwelling owl that is boldly spotted and bared with brown and white. They often dig their own burrow and line the entrance with decorative materials prior to laying eggs at the bottom of the burrow. They inhabit high, sparsely vegetated, sandy ground and can be found in ruderal areas such as pastures, airports, ball fields, and road rights-of-ways. Burrowing owl habitat on-site is marginal, and no individuals or burrows were observed. No further action is required regarding this species.

Southeast American Kestrel

The southeast American Kestrel's range is limited by nest and perch site availability, foraging habitat and food supply all near one another. Kestrels utilize a wide variety of habitats and nest in open pine habitats, woodland edges, prairies, and pastures throughout much of Florida. Nest sites are in tall dead trees or utility poles generally with an unobstructed view of surroundings. No kestrels were observed within the project site, however, habitat is present on-site. A kestrel survey for the Florida subspecies (*Falco sparverius paulus*) is recommended before development occurs, which will need to be conducted during non-migratory periods when the northern kestrel would not be present. That survey can be conducted between May – August.

Sandhill Crane

The Florida sandhill crane is listed as threatened by the FWC and inhabits prairies, freshwater marshes, and pasture lands. This crane is known to forage within agricultural areas like feed lots and crop fields, golf courses and other open lawns. Potential foraging habitat occurs on-site; however, nesting habitat was marginal on-site and no sandhill cranes were observed. If Florida sandhill cranes are not nesting on-site, no further action is required.

Gopher Tortoise

The gopher tortoise is a burrowing tortoise that inhabits upland habitats such as pine flatwoods, xeric oak hammocks, and open sandy pastures, but can also often occur in disturbed areas. A 15% gopher tortoise burrow survey was conducted, and no gopher tortoises or their burrows were observed. Potential habitat for the gopher tortoise does occur on-site, and thus a 100% gopher tortoise survey will need to be completed no more than 90 days prior to construction. Impacts to or within 25 feet of gopher tortoise burrows require a relocation permit from FWC. This permit authorizes gopher tortoises to be relocated by an authorized agent off the development property to a protected certified recipient area.

Listed Plant Species

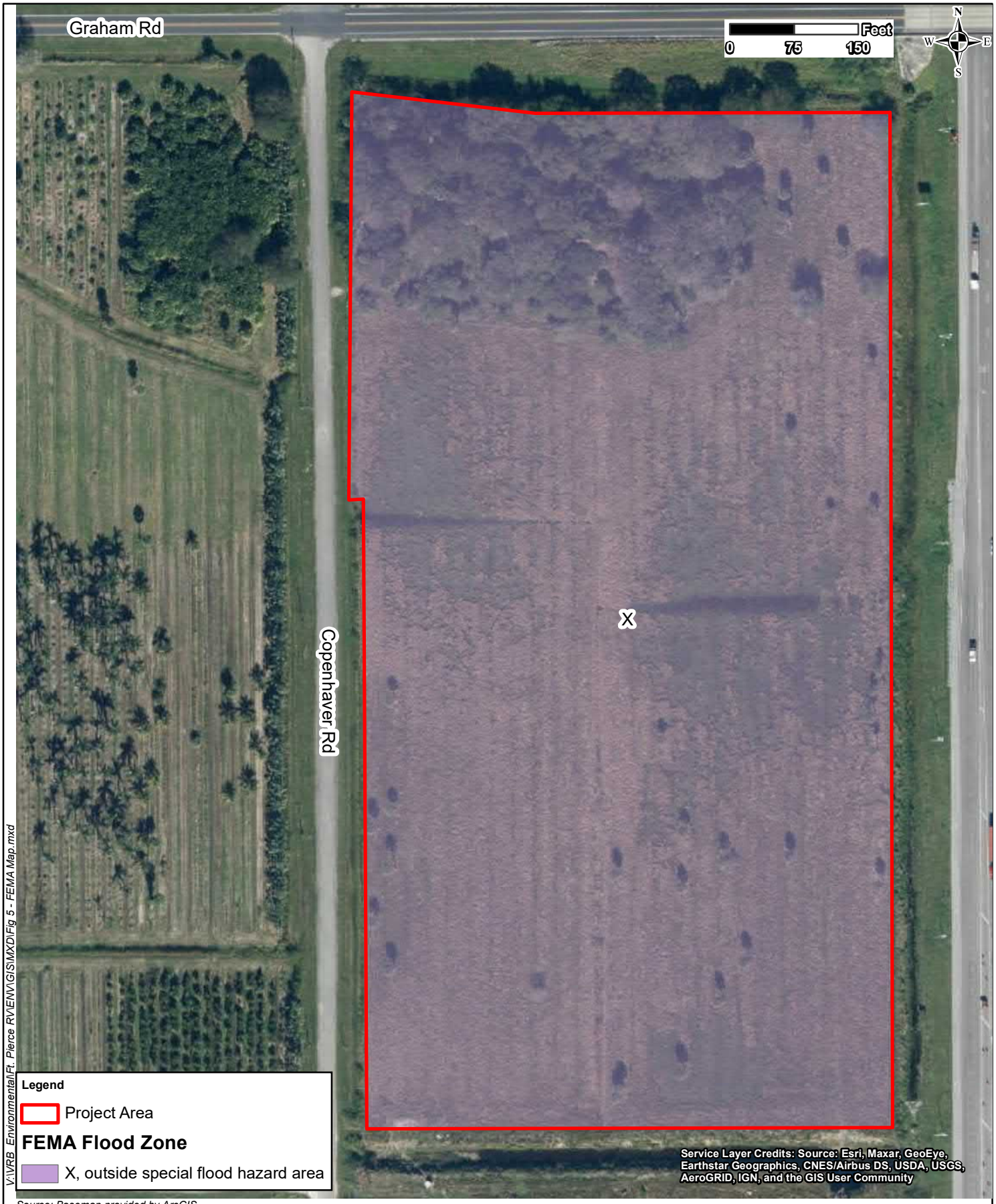
The Florida Department of Agriculture and Consumer Service's *Notes on Florida's Threatened and Endangered Plants*, and Richard Wunderlin's *Guide to Vascular Plants of Florida*, were consulted to assess habitat requirements for listed plant species. Although seven state-listed plants were noted by FNAI as possibly occurring in this area, none were observed during field reconnaissance. No further action is required regarding listed plant species.

3.6 HISTORIC AND ARCHAEOLOGICAL RESOURCES

Kimley-Horn requested an inquiry from the Department of State, State Historic Preservation Officer (SHPO) Division of Historical Resources Florida Master Site File (FMSF) regarding the presence of known historical or archaeological findings on the project site, or in the immediate vicinity (***Appendix D***). The FMSF lists two standing structures and one resource group within a 0.25-mile radius of the project area, however, none are within the project site, thus no historic or archaeological resources are anticipated to be impacted by development of the project site.

3.7 FLOODPLAIN INFORMATION

The FEMA FIRM panel [12061C0166E] indicates that the entirety of the project site is located within Flood Zone X – defined as areas determined to be outside of the special flood hazard area. A FEMA flood zone map is attached as ***Figure 5***. No required floodplain compensation is anticipated.



V:\IVRB Environmental\Ft. Pierce RV\ENV\GIS\MXD\Fig 5 - FEMA Map.mxd

Source: Basemap provided by ArcGIS

Kimley»Horn

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445 24th Street, Suite 200, Vero Beach, FL 32960
Phone (772) 794-4100
www.kimley-horn.com

FEMA Flood Zone Map

Ft. Pierce RV Natural Resource Assessment
St. Lucie County, Florida

1 inch = 150 feet	PROJECT NUMBER: 147814000	FEBRUARY 2021	FIGURE 5

4.0 REGULATORY REQUIREMENTS

4.1 LOCAL ENVIRONMENTAL ORDINANCES

Based on a review of the municipal codes and ordinances for St. Lucie County, existing permitting requirements and regulations of state and federal regulatory agencies must be followed and applied. Additionally, per the Land Development Code of St. Lucie County, vegetation removal activities of native species in unincorporated areas requires a Vegetation Removal Permit from the Public Works Director. A tree survey will be required to determine status of trees on-site.

The St. Lucie County Land Development Code also gives St. Lucie County regulatory authority over all wetlands, however this authority is carried out via coordination with state and federal agencies. Thus, a state or federal permit required for construction, dredging, filling, or alteration within jurisdictional wetlands will supersede the county permitting mechanism. Mitigation must demonstrate no net losses due to impacts of these areas. Additionally, a minimum 10-foot buffer zone of native upland transitional vegetation is required around any isolated wetlands preserved on development sites.

4.2 STATE REGULATORY REQUIREMENTS

Environmental Resource Permit

An Environmental Resource Permit (ERP) will be required for the project if impacts to the on-site surface water or wetlands are proposed. The ERP evaluates the project impacts to wetlands, surface waters, and stormwater management design including floodplain impacts. An ERP may also be required from the SFWMD if any stormwater improvements are proposed as part of this project. Drainage design and stormwater management is not discussed further in this report as the scope was limited to natural resources.

It should be noted that the FDEP has assumed administration of the Clean Water Act (CWA) Section 404 program. FDEP will process Section 404 permits within State-assumed Waters of the US (WOTUS) rather than the US Army Corps of Engineers (USACE). Based on a preliminary review, there do not appear to be WOTUS present on-site, and therefore, authorization under Section 404 should not be required.

Listed Species Permitting

The following state-listed species may potentially occur on-site:

- Gopher tortoise
- Southeastern American kestrel

Gopher Tortoise

Based on the presence of potential gopher tortoise habitat on-site, a 100% gopher tortoise burrow survey is required to be conducted within 90 days prior to construction commencement, and a gopher tortoise relocation permit will be required from FWC if any relocation is required.

Southeastern American kestrel

Based on the on-site habitat suitable for the southeastern American kestrel, a kestrel survey is recommended for the Florida subspecies prior to site development. This will need to be conducted between May and August.

4.3 FEDERAL REGULATORY REQUIREMENTS

Section 404 Dredge and Fill Permitting

Please refer to State Regulatory Requirements above. Based on a preliminary review, WOTUS do not appear to be present on-site, and therefore, authorization under Section 404 is not required. This project is not within 300 ft. of a USACE retained water, so permitting under Section 404 can be authorized under the DEP State 404 Program.

Federal Listed Species

The following federally listed species were observed or potentially occur on-site:

- Wood Stork
- Eastern indigo snake
- Audubon's crested caracara

Wood Stork

The proposed project occurs within the CFA of two wood stork colonies. Foraging habitat is present in the surface water through the central portion of the property. In accordance with USFWS's 2010 South Florida Programmatic Concurrence and Key, a wood stork foraging analysis may be required if impacts to SFH are proposed. Mitigation requirements will be based on this analysis.

Eastern Indigo Snake

Per the Eastern Indigo Snake Effect Determination Key (August 13, 2013), if the USFWS Standard Protection Measures for the Eastern Indigo Snake (***Appendix B***) are implemented during construction, impacts to the Eastern indigo snake are not anticipated to occur, and no further action is anticipated to be required.

Audubon's Crested Caracara

Potential caracara habitat exists on-site. Therefore, consultation with USFWS and a crested caracara survey is recommendedto determine the presence or absence of a nest on-site. Surveys must adhere to the USFWS Crested Caracara Draft Survey Protocol Additional Guidance (2016-2017 Breeding Season) and begin no later than January 10 and continue through April 30.

5.0 SUMMARY AND RECOMMENDATIONS

- A tree survey and Vegetation Removal Permit from St. Lucie County may be required for tree removal prior to development.
- An ERP from SFWMD will be required to authorize stormwater improvements and any wetland or surface water impacts as part of site development. Based on the FMSF, there were no historic or archaeological resources within the study area.
- The site does not appear to contain jurisdictional WOTUS, so authorization under Section 404 will not be required through a State 404 Program permit.
- The following state and federally listed species were observed or potentially occur on-site: Audubon's crested caracara, wood stork, gopher tortoise, Southeastern American kestrel, and Eastern indigo snake. Additional surveys and permits may be required for the crested caracara, gopher tortoise, kestrel, and wood stork. Implementation of the Standard Protection Measures is recommended for the eastern indigo snake.

- The project site is not within a FEMA designated floodplain, and additional engineering analysis regarding the floodplain is not anticipated. This topic will be evaluated during civil engineering design and permitting with the SFWMD.

APPENDIX A
FNAI BIODIVERSITY MATRIX
IPAC SPECIES LIST

1018 Thomasville Road
Suite 200-C
Tallahassee, FL 32303
850-224-8207
850-681-9364 fax
www.fnai.org

Florida Natural Areas Inventory

Biodiversity Matrix Query Results

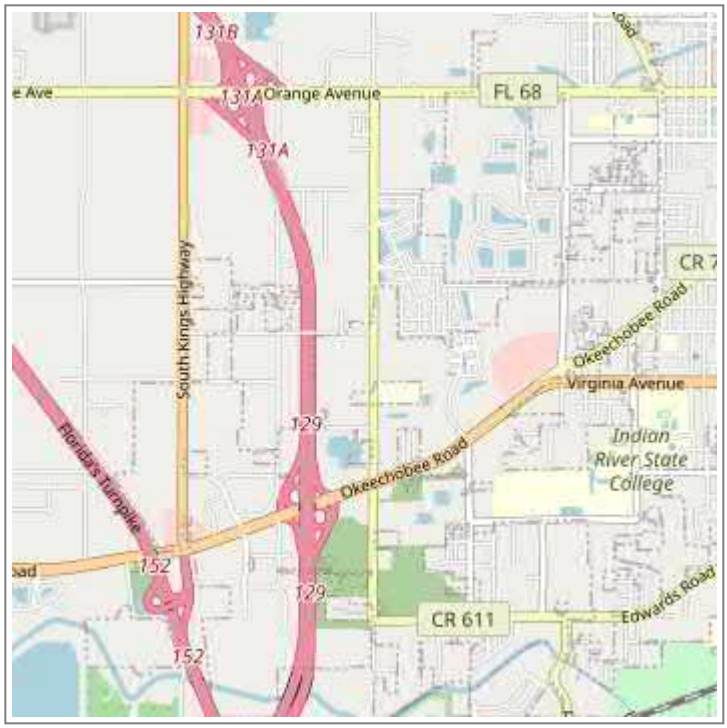
UNOFFICIAL REPORT

Created 3/15/2021

(Contact the FNAI Data Services Coordinator at 850.224.8207 or kbrinegar@fnai.fsu.edu for information on an official Standard Data Report)

NOTE: The Biodiversity Matrix includes only rare species and natural communities tracked by FNAI.

Report for 1 Matrix Unit: 65769



Descriptions

DOCUMENTED - There is a documented occurrence in the FNAI database of the species or community within this Matrix Unit.

DOCUMENTED-HISTORIC - There is a documented occurrence in the FNAI database of the species or community within this Matrix Unit; however the occurrence has not been observed/reported within the last twenty years.

LIKELY - The species or community is *known* to occur in this vicinity, and is considered likely within this Matrix Unit because:

1. documented occurrence overlaps this and adjacent Matrix Units, but the documentation isn't precise enough to indicate which of those Units the species or community is actually located in; *or*
2. there is a documented occurrence in the vicinity and there is suitable habitat for that species or community within this Matrix Unit.

POTENTIAL - This Matrix Unit lies within the known or predicted range of the species or community based on expert knowledge and environmental variables such as climate, soils, topography, and landcover.

Matrix Unit ID: 65769

0 **Documented** Elements Found

0 **Documented-Historic** Elements Found

2 **Likely** Elements Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
Mesic flatwoods	G4	S4	N	N
Mycteria americana Wood Stork	G4	S2	LT	FT

Matrix Unit ID: 65769

13 **Potential** Elements for Matrix Unit 65769

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing

Athene cunicularia floridana Florida Burrowing Owl	G4T3	S3	N	SSC
Coelorachis tuberculosa Piedmont Jointgrass	G3	S3	N	T
Conradina grandiflora Large-flowered Rosemary	G3	S3	N	T
Drymarchon couperi Eastern Indigo Snake	G3	S3	LT	FT
Eudocimus albus White Ibis	G5	S4	N	SSC
Glandularia maritima Coastal Vervain	G3	S3	N	E
Gopherus polyphemus Gopher Tortoise	G3	S3	C	ST
Lechea cernua Nodding Pinweed	G3	S3	N	T
Linum carteri var. smallii Small's Flax	G2T2	S2	N	E
Nemastylis floridana Celestial Lily	G2	S2	N	E
Pteroglossaspis ecristata Giant Orchid	G2G3	S2	N	T
Sceloporus woodi Florida Scrub Lizard	G2G3	S2S3	N	N
Sciurus niger shermani Sherman's Fox Squirrel	G5T3	S3	N	SSC

Disclaimer

The data maintained by the Florida Natural Areas Inventory represent the single most comprehensive source of information available on the locations of rare species and other significant ecological resources statewide. However, the data are not always based on comprehensive or site-specific field surveys. Therefore, this information should not be regarded as a final statement on the biological resources of the site being considered, nor should it be substituted for on-site surveys. FNAI shall not be held liable for the accuracy and completeness of these data, or opinions or conclusions drawn from these data. FNAI is not inviting reliance on these data. Inventory data are designed for the purposes of conservation planning and scientific research and are not intended for use as the primary criteria for regulatory decisions.

Unofficial Report

These results are considered unofficial. FNAI offers a Standard Data Request option for those needing certifiable data.

United States Department of the Interior

FISH AND WILDLIFE SERVICE
South Florida Ecological Services Field Office
1339 20th Street
Vero Beach, FL 32960-3559
Phone: (772) 562-3909 Fax: (772) 562-4288
http://fws.gov/verobeach

In Reply Refer To: March 18, 2021
Consultation Code: 04EF2000-2021-SLI-0510
Event Code: 04EF2000-2021-E-01258
Project Name: Ft. Pierce RV

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

South Florida Ecological Services Field Office
1339 20th Street
Vero Beach, FL 32960-3559
(772) 562-3909

Project Summary

Consultation Code: 04EF2000-2021-SLI-0510
Event Code: 04EF2000-2021-E-01258
Project Name: Ft. Pierce RV
Project Type: DEVELOPMENT
Project Description: NRA
Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@27.42731565,-80.38981320093714,14z



Counties: St. Lucie County, Florida

Endangered Species Act Species

There is a total of 16 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Florida Panther *Puma (=Felis) concolor coryi* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1763	Endangered
Puma (=mountain Lion) *Puma (=Felis) concolor (all subsp. except coryi)* Population: FL No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6049	Similarity of Appearance (Threatened)
Southeastern Beach Mouse *Peromyscus polionotus niveiventris* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/3951	Threatened

Birds

NAME	STATUS
Audubon's Crested Caracara *Polyborus plancus audubonii* Population: FL pop. No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8250	Threatened
Everglade Snail Kite *Rostrhamus sociabilis plumbeus* There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/7713	Endangered
Florida Grasshopper Sparrow *Ammodramus savannarum floridanus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/32	Endangered
Whooping Crane *Grus americana* Population: U.S.A. (CO, ID, FL, NM, UT, and the western half of Wyoming) No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/758	Experimental Population, Non-Essential
Wood Stork *Mycteria americana* Population: AL, FL, GA, MS, NC, SC No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8477	Threatened

Reptiles

NAME	STATUS
American Alligator *Alligator mississippiensis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/776	Similarity of Appearance (Threatened)
Hawksbill Sea Turtle *Eretmochelys imbricata* There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/3656	Endangered
Leatherback Sea Turtle *Dermochelys coriacea* There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/1493	Endangered
Loggerhead Sea Turtle *Caretta caretta* Population: Northwest Atlantic Ocean DPS There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/1110	Threatened

Insects

NAME	STATUS
Miami Blue Butterfly *Cyclargus (=Hemiargus) thomasi bethunebakeri*	Endangered

No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/3797

Flowering Plants

NAME	STATUS
Fragrant Prickly-apple *Cereus eriophorus var. fragrans*	Endangered

No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/982

Lakela's Mint *Dicerandra immaculata*	Endangered

No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/6390

Tiny Polygala *Polygala smallii*	Endangered

No critical habitat has been designated for this species.
Species profile: https://ecos.fws.gov/ecp/species/996

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

APPENDIX B

STANDARD PROTECTION MEASURES FOR THE EASTERN INDIGO SNAKE

United States Department of the Interior

FISH AND WILDLIFE SERVICE
South Florida Ecological Services Office
1339 20th Street
Vero Beach, Florida 32960

August 1, 2017

Donnie Kinard
U.S. Army Corps of Engineers
Post Office Box 4970
Jacksonville, Florida 32232-0019

Subject: Consultation Key for the Eastern Indigo Snake – Revised

Dear Mr. Kinard:

This letter revises and replaces the January 25, 2010, and August 13, 2013, letters to the U.S. Army Corps of Engineers (Corps) regarding the use of the eastern indigo snake programmatic effect determination key (Key) for projects occurring within the South Florida Ecological Service's Office (SFESO) jurisdiction. This revision supersedes all prior versions of the Key in the SFESO area. The purpose of this revision is to clarify portions of the previous keys based on questions we have been asked, specifically related to habitat and refugia used by eastern indigo snakes (*Drymarchon corais couperi*), in the southern portion of their range and within the jurisdiction of the SFESO. This Key is provided pursuant to the Service's authorities under the Endangered Species Act of 1973, as amended (Act) (87 Stat. 884; 16 U.S.C.1531 *et seq.*). This Key revision has been assigned Service Consultation Code: 41420-2009-I-0467-R001.

The purpose of this Key is to assist the Corps (or other Federal action agency) in making appropriate effects determinations for the eastern indigo snake under section 7 of the Act, and streamline informal consultation with the SFESO for the eastern indigo snake when the proposed action can be walked through the Key. The Key is a tool available to the Corps (or other Federal action agency) for the purposes of expediting section 7 consultations. There is no requirement to use the Key. There will be cases when the use of the Key is not appropriate. These include, but are not limited to: where project specific information is outside of the scope of the Key or instances where there is new biological information about the species. In these cases, we recommend the Corps (or other Federal action agency) initiates traditional consultation pursuant to section 7 of the Act, and identify that consultation is being requested outside of the Key.

This Key uses project size and home ranges of eastern indigo snakes as the basis for making determinations of "may affect, but is not likely to adversely affect" (NLAA) and "may affect. and is likely to adversely affect" (may affect). Suitable habitat for the eastern indigo snake consists of a mosaic of habitats types, most of which occur throughout South Florida. Information on home ranges for individuals is not available in specific habitats in South Florida. Therefore, the SFESO uses the information from a 26-year study conducted by Layne and Steiner (1996) at Archbold Biological Station, Lake Placid, Florida, as the best available

information. Layne and Steiner (1996) determined the average home range size for a female eastern indigo snake was 46 acres and 184 acres for a male.

Projects that would remove/destroy less than 25 acres of eastern indigo snake habitat are expected to result in the loss of a portion of an eastern indigo snakes home range that would not impair the ability of the individual to feed, breed, and shelter. Therefore, the Service finds that take would not be reasonably certain to occur due to habitat loss. However, these projects have the potential to injure or kill an eastern indigo snake if the individual is crushed by equipment during site preparation or other project aspects. The Service's *Standard Protection Measures for the Eastern Indigo Snake* (Service 2013 or most current version) and the excavation of underground refugia (where a snake could be buried, trapped and/or injured), when implemented, are designed to avoid these forms of take. Consequently, projects less than 25 acres that include the Service's *Standard Protection Measures for the Eastern Indigo Snake* (Service 2013 or most current version) and a commitment to excavate underground refugia as part of the proposed action would be expected to avoid take and thus, may affect, but are not likely to adversely affect the species.

If a proposed project would impact less than 25 acres of vegetated eastern indigo snake habitat (not urban/ human-altered) completely surrounded by urban development, and an eastern indigo snake has been observed on site, the Key should not be used. The Service recommends formal consultation for this situation because of the expected increased value of the vegetated habitat within the individual's home range.

Projects that would remove 25 acres or more of eastern indigo snake habitat could remove more than half of a female eastern indigo snakes home range. This loss of habitat within a home range would be expected to significantly impair the ability of that individual to feed, breed, and shelter. Therefore, the Service finds take through habitat loss would be reasonably certain to occur and formal consultation is appropriate. Furthermore, these projects have the potential to injure or kill an eastern indigo snake if the individual is crushed by equipment during site preparation or other project aspects. The Service's *Standard Protection Measures* for the *Eastern Indigo Snake* (Service 2013 or most current version) and the excavation of underground refugia (where a snake could be buried, trapped and/or injured), when implemented, are designed to avoid these forms of take.

Eastern indigo snakes use a variety of habitat and are difficult to detect. Therefore, site specific information on the land use, observations of eastern indigo snakes within the vicinity, as well as other factors, as appropriate, will all be considered by the Service when making a final recommendation on the appropriate effects determination and whether it is appropriate to conclude consultation with the Corps (or other Federal action agency) formally or informally for projects that will impact 25 acres or more of habitat. Accordingly, when the use of the Key results in a determination of "may affect," the Corps (or other Federal action agency) is advised that consultation may be concluded informally or formally, depending on the project specific effects to eastern indigo snakes. Technical assistance from the Service can assist you in making a determination prior to submitting a request for consultation. In circumstances where the Corps (or other Federal action agency) desires to proceed with a consultation request prior to receiving

additional technical assistance from the Service, we recommend the agency documents the biological rationale for their determination and proceed with a request accordingly.

If the use of the Key results in a determination of "no effect," no further consultation is necessary with the SFESO. If the use of the Key results in a determination of "NLAA," the SFESO concurs with this determination based on the rationale provide above, and no further consultation is necessary for the effects of the proposed action on the eastern indigo snake. For "no effect" or "NLAA" determinations, the Service recommends that the Corps (or other Federal action agency) documents the pathway used to reach your no effect or NLAA determination in the project record and proceed with other species analysis as warranted.

Eastern Indigo Snake Programmatic Effect Determination Key
Revised July 2017
South Florida Ecological Service Office

Scope of the Key

This Key should be used only in the review of permit applications for effects determinations for the eastern indigo snake (*Drymarchon corais couperi*) within the South Florida Ecological Service's Office (SFESO) area (Broward, Charlotte, Collier, De Soto, Glades, Hardee, Hendry, Highlands, Lee, Indian River, Martin, Miami-Dade, Monroe, Okeechobee, Osceola, Palm Beach, Polk, Sarasota, and St. Lucie Counties). There is no designated critical habitat for the eastern indigo snake.

This Key is subject to revision as the Corps (or other Federal action agency) and Service deem necessary and in particular whenever there is new information on eastern indigo snake biology and effects of proposed projects.

The Key is a tool available to the Corps (or other Federal action agency) for the purposes of expediting section 7 consultations. There is no requirement to use the Key. There will be cases when the use of the Key is not appropriate. These include, but are not limited to: where project specific information is outside of the scope of the Key or instances where there is new biological information about the species. In these cases, we recommend the Corps (or other Federal action agency) initiates traditional consultation pursuant to section 7 of the Act, and identify that consultation is being requested outside of the Key.

Habitat

Habitat use varies seasonally between upland and wetland areas, especially in the more northern parts of the species' range. In southern parts of their range eastern indigo snakes are habitat generalists which use most available habitat types. Movements between habitat types in northern areas of their range may relate to the need for thermal refugia (protection from cold and/or heat).

In northern areas of their range eastern indigo snakes prefer an interspersion of tortoise-inhabited sandhills and wetlands (Landers and Speake 1980). In these northern regions eastern indigo

snakes most often use forested areas rich with gopher tortoise burrows, hollowed root channels, hollow logs, or the burrows of rodents, armadillos, or land crabs as thermal refugia during cooler seasons (Lawler 1977; Moler 1985a; Layne and Steiner 1996). The eastern indigo snake in the northern region is typically classified as a longleaf pine savanna specialist because here, in the northern four-fifths of its range, the eastern indigo snake is typically only found in vicinity of xeric longleaf pine–turkey oak sandhills inhabited by the gopher tortoise (Means 2006).

In the milder climates of central and southern Florida, comprising the remaining one fifth of its range, thermal refugia such as those provided by gopher tortoise burrows may not be as critical to survival of indigo snakes. Consequently, eastern indigo snakes in these regions use a more diverse assemblage of habitats such as pine flatwoods, scrubby flatwoods, floodplain edges, sand ridges, dry glades, tropical hammocks, edges of freshwater marshes, muckland fields, coastal dunes, and xeric sandhill communities; with highest population concentrations of eastern indigo snakes occurring in the sandhill and pineland regions of northern and central Florida (Service 1999). Eastern indigo snakes have also been found on agricultural lands with close proximity to wetlands (Zeigler 2006).

In south Florida, agricultural sites (*e.g.*, sugar cane fields and citrus groves) are occupied by eastern indigo snakes. The use of sugarcane fields by eastern indigo snakes was first documented by Layne and Steiner in 1996. In these areas there is typically an abundance of wetland and upland ecotones (due to the presence of many ditches and canals), which support a diverse prey base for foraging. In fact, some speculate agricultural areas may actually have a higher density of eastern indigo snakes than natural communities due to the increased availability of prey. Gopher tortoise burrows are absent at these locations but there is an abundance of both natural and artificial refugia. Enge and Endries (2009) reporting on the status of the eastern indigo snake included sugarcane fields and citrus groves in a Global Information Systems (GIS)-base map of potential eastern indigo snake habitat. Numerous sightings of eastern indigo snakes within sugarcane fields have been reported within south Florida (Florida Fish and Wildlife Conservation Commission Indigo Snake Database [Enge 2017]). A recent study associated with the Comprehensive Everglades Restoration Plan (CERP) (A-1 FEB Project formerly A-1 Reservoir; Service code: 41420-2006-F-0477) documented eastern indigo snakes within sugarcane fields. The snakes used artificial habitats such as piles of limerock, construction debris, and pump stations. Recent studies also associated with the CERP at the C-44 Project (Service code: 41420-2009-FA-0314), and C-43 Project (Service code: 41420-2007-F-0589) documented eastern indigo snakes within citrus groves. The snakes used artificial habitats such as boards, sheets of tin, construction debris, pipes, drain pipes in abandoned buildings and septic tanks.

In extreme south Florida (*i.e.*, the Everglades and Florida Keys), eastern indigo snakes also utilize tropical hardwood hammocks, pine rocklands, freshwater marshes, abandoned agricultural land, coastal prairie, mangrove swamps, and human-altered habitats. Though eastern indigo snakes have been found in all available habitats of south Florida it is thought they prefer hammocks and pine forests since most observations occur there and use of these areas is disproportionate compared to the relatively small total area of these habitats (Steiner *et al.* 1983).

Even though thermal stress may not be a limiting factor throughout the year in south Florida, eastern indigo snakes still seek and use underground refugia. On the sandy central ridge of central Florida, eastern indigo snakes use gopher tortoise burrows more (62 percent) than other underground refugia (Layne and Steiner 1996). Other underground refugia used include armadillo (*Dasypus novemcinctus*) burrows near citrus groves, cotton rat (*Sigmodon hispidus*) burrows, and land crab (*Cardisoma guanhumi*) burrows in coastal areas (Layne and Steiner 1996; Wilson and Porras 1983). Natural ground holes, hollows at the base of trees or shrubs, ground litter, trash piles, and crevices of rock-lined ditch walls are also used (Layne and Steiner 1996). These refugia are used most frequently where tortoise burrows are not available, principally in low-lying areas off the central and coastal ridges.

Minimization Measures

The Service developed protection measures for the eastern indigo snake "Standard Protection Measures for the Eastern Indigo Snake" (Service 2013) located at: https://www.fws.gov/verobeach/ReptilesPDFs/20130812_EIS%20Standard%20Protection%20Measures_final.pdf. These protections measures (or the most updated version) are considered a minimization measure for projects proposed within eastern indigo snake habitat.

Determinations

If the use of this Key results in a determination of "**no effect**," no further consultation is necessary with the SFESO.

If the use of this Key results in a determination of "**NLAA**," the SFESO concurs with this determination and no further consultation is necessary for the effects of the proposed action on the eastern indigo snake.

For no effect or NLAA determinations, the Corps (or other Federal action agency) should make a note in the project file indicating the pathway used to reach your no effect or NLAA determination.

If a proposed project would impact less than 25 acres of vegetated eastern indigo snake habitat (not urban/ human-altered) completely surrounded by urban development, and an eastern indigo snake has been observed on site, the subsequent Key should not be used. The Service recommends formal consultation for this situation because of the expected increased value of the vegetated habitat within the individual's home range.

If the use of this Key results in a determination of "**may affect**," consultation may be concluded informally or formally depending on project effects to eastern indigo snakes. Technical assistance from the Service can assist you in making a determination prior to submitting a request for consultation. In circumstances where the Corps desires to proceed with a consultation request prior to receiving additional technical assistance from the Service, we recommend the Corps document the biological rationale for their determination and proceed with a request accordingly.

A. Project is not located in open water or salt marsh.....go to B

Project is located solely in open water or salt marsh.....**no effect**

B. Permit will be conditioned for use of the Service's most current guidance for Standard Protection Measures For The Eastern Indigo Snake (currently 2013) during site preparation and project construction.....go to C

Permit will not be conditioned as above for the eastern indigo snake, or it is not known whether an applicant intends to use these measures and consultation with the Service is requested.....**may affect**

C. The project will impact less than 25 acres of eastern indigo snake habitat (*e.g.*, sandhill, scrub, pine flatwoods, pine rocklands, scrubby flatwoods, high pine, dry prairie, coastal prairie, mangrove swamps, tropical hardwood hammocks, hydric hammocks, edges of freshwater marshes, agricultural fields [including sugar cane fields and active, inactive, or abandoned citrus groves], and coastal dunes).....go to D

The project will impact 25 acres or more of eastern indigo snake habitat (*e.g.*, sandhill, scrub, pine flatwoods, pine rocklands, scrubby flatwoods, high pine, dry prairie, coastal prairie, mangrove swamps, tropical hardwood hammocks, hydric hammocks, edges of freshwater marshes, agricultural fields [including sugar cane fields and active, inactive, or abandoned citrus groves], and coastal dunes).....**may affect**

D. The project has no known holes, cavities, active or inactive gopher tortoise burrows, or other underground refugia where a snake could be buried, trapped and/or injured during project activities.....**NLAA**

The project has known holes, cavities, active or inactive gopher tortoise burrows, or other underground refugia where a snake could be buried, trapped and /or injured.....go to E

E. Any permit will be conditioned such that all gopher tortoise burrows, active or inactive, will be excavated prior to site manipulation in the vicinity of the burrow[1]. If an eastern indigo snake is encountered, the snake must be allowed to vacate the area prior to additional site manipulation in the vicinity. Any permit will also be conditioned such that holes, cavities, and snake refugia other than gopher tortoise burrows will be inspected each morning before planned site manipulation of a particular area, and, if occupied by an eastern indigo snake, no work will commence until the snake has vacated the vicinity of proposed work.....**NLAA**[2]

Permit will not be conditioned as outlined above.....**may affect**

End Key

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[1] If excavating potentially occupied burrows, active or inactive, individuals must first obtain state authorization via a Florida Fish and Wildlife Conservation Commission Authorized Gopher Tortoise Agent permit. The excavation method selected should also minimize the potential for injury of an indigo snake. Applicants should follow the excavation guidance provided within the most current Gopher Tortoise Permitting Guidelines found at http://myfwc.com/gophertortoise.

[2] Please note, if the proposed project will impact less than 25 acres of vegetated eastern indigo snake habitat (not urban/ human-altered) completely surrounded by urban development, and an eastern indigo snake has been observed on site, NLAA is not the appropriate conclusion. The Service recommends formal consultation for this situation because of the expected increased value of the vegetated habitat within the individual's home range

Working with the Fish and Wildlife Foundation of Florida, the Service has established a fund to support conservation and recovery for the eastern indigo snake. Any project that has the potential to affect the eastern indigo snake and/or its habitat is encouraged to make a voluntary contribution to this fund. If you would like additional information about how to make a contribution and how these monies are used to support eastern indigo snake recovery please contact Ashleigh Blackford, Connie Cassler, or José Rivera at 772-562-3559.

This revised Key is effective immediately upon receipt by the Corps. Should circumstances change or new information become available regarding the eastern indigo snake and/or implementation of the Key, the determinations herein may be reconsidered and this Key further revised or amended.

Thank you for your continued cooperation in the effort to conserve fish and wildlife resources. If you have any questions or comments regarding this Key, please contact the SFESO at 772-562-3909.

Sincerely,

Roxanna Hinzman
Field Supervisor
South Florida Ecological Services

Cc:
Corps, Jacksonville, Florida (Dale Beter, Muriel Blaisdell, Ingrid Gilbert, Angela Ryan, Irene Sadowski, Victoria White, Alisa Zarbo)
Service, Athens, Georgia (Michelle Elmore)
Service, Jacksonville, Florida (Annie Dziergowski)
Service, Panama City, Florida (Sean Blomquist)

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STANDARD PROTECTION MEASURES FOR THE EASTERN INDIGO SNAKE
U.S. Fish and Wildlife Service
August 12, 2013

The eastern indigo snake protection/education plan (Plan) below has been developed by the U.S. Fish and Wildlife Service (USFWS) in Florida for use by applicants and their construction personnel. At least **30 days prior** to any clearing/land alteration activities, the applicant shall notify the appropriate USFWS Field Office via e-mail that the Plan will be implemented as described below (North Florida Field Office: jaxregs@fws.gov; South Florida Field Office: verobeach@fws.gov; Panama City Field Office: panamacity@fws.gov). As long as the signatory of the e-mail certifies compliance with the below Plan (including use of the attached poster and brochure), no further written confirmation or "approval" from the USFWS is needed and the applicant may move forward with the project.

If the applicant decides to use an eastern indigo snake protection/education plan other than the approved Plan below, written confirmation or "approval" from the USFWS that the plan is adequate must be obtained. At least 30 days prior to any clearing/land alteration activities, the applicant shall submit their unique plan for review and approval. The USFWS will respond via e-mail, typically within 30 days of receiving the plan, either concurring that the plan is adequate or requesting additional information. A concurrence e-mail from the appropriate USFWS Field Office will fulfill approval requirements.

The Plan materials should consist of: 1) a combination of posters and pamphlets (see **Poster Information** section below); and 2) verbal educational instructions to construction personnel by supervisory or management personnel before any clearing/land alteration activities are initiated (see **Pre-Construction Activities** and **During Construction Activities** sections below).

POSTER INFORMATION

Posters with the following information shall be placed at strategic locations on the construction site and along any proposed access roads (a final poster for Plan compliance, to be printed on 11" x 17" or larger paper and laminated, is attached):

DESCRIPTION: The eastern indigo snake is one of the largest non-venomous snakes in North America, with individuals often reaching up to 8 feet in length. They derive their name from the glossy, blue-black color of their scales above and uniformly slate blue below. Frequently, they have orange to coral reddish coloration in the throat area, yet some specimens have been reported to only have cream coloration on the throat. These snakes are not typically aggressive and will attempt to crawl away when disturbed. Though indigo snakes rarely bite, they should NOT be handled.

SIMILAR SNAKES: The black racer is the only other solid black snake resembling the eastern indigo snake. However, black racers have a white or cream chin, thinner bodies, and WILL BITE if handled.

LIFE HISTORY: The eastern indigo snake occurs in a wide variety of terrestrial habitat types throughout Florida. Although they have a preference for uplands, they also utilize some wetlands

and agricultural areas. Eastern indigo snakes will often seek shelter inside gopher tortoise burrows and other below- and above-ground refugia, such as other animal burrows, stumps, roots, and debris piles. Females may lay from 4 - 12 white eggs as early as April through June, with young hatching in late July through October.

PROTECTION UNDER FEDERAL AND STATE LAW: The eastern indigo snake is classified as a Threatened species by both the USFWS and the Florida Fish and Wildlife Conservation Commission. "Taking" of eastern indigo snakes is prohibited by the Endangered Species Act without a permit. "Take" is defined by the USFWS as an attempt to kill, harm, harass, pursue, hunt, shoot, wound, trap, capture, collect, or engage in any such conduct. Penalties include a maximum fine of $25,000 for civil violations and up to $50,000 and/or imprisonment for criminal offenses, if convicted.

Only individuals currently authorized through an issued Incidental Take Statement in association with a USFWS Biological Opinion, or by a Section 10(a)(1)(A) permit issued by the USFWS, to handle an eastern indigo snake are allowed to do so.

IF YOU SEE A <u>LIVE</u> EASTERN INDIGO SNAKE ON THE SITE:

- Cease clearing activities and allow the live eastern indigo snake sufficient time to move away from the site without interference;
- Personnel must NOT attempt to touch or handle snake due to protected status.
- Take photographs of the snake, if possible, for identification and documentation purposes.
- Immediately notify supervisor or the applicant's designated agent, **and** the appropriate USFWS office, with the location information and condition of the snake.
- If the snake is located in a vicinity where continuation of the clearing or construction activities will cause harm to the snake, the activities must halt until such time that a representative of the USFWS returns the call (within one day) with further guidance as to when activities may resume.

IF YOU SEE A <u>DEAD</u> EASTERN INDIGO SNAKE ON THE SITE:

- Cease clearing activities and immediately notify supervisor or the applicant's designated agent, **and** the appropriate USFWS office, with the location information and condition of the snake.
- Take photographs of the snake, if possible, for identification and documentation purposes.
- Thoroughly soak the dead snake in water and then freeze the specimen. The appropriate wildlife agency will retrieve the dead snake.

Telephone numbers of USFWS Florida Field Offices to be contacted if a live or dead eastern indigo snake is encountered:

North Florida Field Office – (904) 731-3336
Panama City Field Office – (850) 769-0552
South Florida Field Office – (772) 562-3909

PRE-CONSTRUCTION ACTIVITIES

1. The applicant or designated agent will post educational posters in the construction office and throughout the construction site, including any access roads. The posters must be clearly visible to all construction staff. A sample poster is attached.

2. Prior to the onset of construction activities, the applicant/designated agent will conduct a meeting with all construction staff (annually for multi-year projects) to discuss identification of the snake, its protected status, what to do if a snake is observed within the project area, and applicable penalties that may be imposed if state and/or federal regulations are violated. An educational brochure including color photographs of the snake will be given to each staff member in attendance and additional copies will be provided to the construction superintendent to make available in the onsite construction office (a final brochure for Plan compliance, to be printed double-sided on 8.5" x 11" paper and then properly folded, is attached). Photos of eastern indigo snakes may be accessed on USFWS and/or FWC websites.

3. Construction staff will be informed that in the event that an eastern indigo snake (live or dead) is observed on the project site during construction activities, all such activities are to cease until the established procedures are implemented according to the Plan, which includes notification of the appropriate USFWS Field Office. The contact information for the USFWS is provided on the referenced posters and brochures.

DURING CONSTRUCTION ACTIVITIES

1. During initial site clearing activities, an onsite observer may be utilized to determine whether habitat conditions suggest a reasonable probability of an eastern indigo snake sighting (example: discovery of snake sheds, tracks, lots of refugia and cavities present in the area of clearing activities, and presence of gopher tortoises and burrows).

2. If an eastern indigo snake is discovered during gopher tortoise relocation activities (i.e. burrow excavation), the USFWS shall be contacted within one business day to obtain further guidance which may result in further project consultation.

3. Periodically during construction activities, the applicant's designated agent should visit the project area to observe the condition of the posters and Plan materials, and replace them as needed. Construction personnel should be reminded of the instructions (above) as to what is expected if any eastern indigo snakes are seen.

POST CONSTRUCTION ACTIVITIES

Whether or not eastern indigo snakes are observed during construction activities, a monitoring report should be submitted to the appropriate USFWS Field Office within 60 days of project completion. The report can be sent electronically to the appropriate USFWS e-mail address listed on page one of this Plan.

APPENDIX C

USFWS CRESTED CARACARA DRAFT SURVEY PROTOCOL ADDITIONAL GUIDANCE

USFWS Crested Caracara Draft Survey Protocol – Additional Guidance (2016-2017 Breeding Season)

The northern crested caracara (*Caracara cheriway*) is a resident, diurnal, and non-migratory raptor that occurs primarily in Florida, Texas, Arizona, Cuba, Mexico, Central America, and the northern portions of South America (Morrison and Dwyer 2012). Only the Florida population, which is isolated from the remainder of the species, is listed as threatened under the Endangered Species Act.

In order to avoid the potential for unauthorized take, future project sites within the caracara consultation area (Figure 1) containing habitats (same or similar) as described below should undergo a formal caracara survey to determine site utilization by caracaras. The intent of caracara surveys is three-fold: (1) to determine the location(s) of active caracara nest(s) that could be adversely affected by the proposed project; (2) to determine the presence and use of the project area by breeding and non-breeding caracaras, including the approximate boundaries of breeding territories, if possible; and (3) to determine the fate and productivity of any caracara nest found.

We recommend coordinating with the U.S. Fish and Wildlife Service (Service) prior to conducting surveys, including submittal of a proposed survey plan and list of observers which follows the guidance below. Following the guidance will ensure that the surveys are timed during the period of greatest detection to document caracaras within or adjacent to the proposed project. The Service has caracara observation and nest location data as well as designated caracara congregation areas that may be of use for planning surveys. For project consultations under the Endangered Species Act, surveys must follow this protocol and must be no older than the previous caracara nesting season (January – April) in order to be considered valid. In the event that construction or vegetation clearing activity will occur more than one year after permitting is completed, contact the Service to discuss the need for follow-up surveys.

Foraging and Nesting Habitat

The Florida caracara population commonly occurs on dry or wet prairies with scattered cabbage palms (*Sabal palmetto*). It may also be found in lightly wooded areas. Scattered saw palmetto (*Serenoa repens*), scrub oaks (*Quercus geminata, Q. minima, Q. pumila*), and cypress (*Taxodium* spp.) may also be present. Widespread changes in land use may have caused a change in habitat use in this species. Morrison and Humphrey (2001) found a strong association of caracara home ranges with improved pasture. The presence of seasonal wetlands, which may serve as foraging habitat, is an important factor in the attractiveness of these pastures to caracaras (Service 1999). Therefore, today we recognize caracara foraging habitat (and nesting territories) as those areas with short herbaceous vegetation. This includes native wet and dry prairies, but also improved, unimproved, and woodland pastures, sod farms, row crops, levees, and rangeland. Juvenile caracaras may also use citrus and tree farms.

The primary nesting substrate is cabbage palm, although there have been rare reports of nesting in slash pine (pers. obs.), cypress, oak, red cedar (Morrison 2007), Australian pine

(*Casuarina* sp.), saw palmetto, and black gum (*Nyssa sylvatica*), and even more atypical locations such as an electrical substation, radio tower, and billboard (Dwyer and DallaRosa 2015).

Survey Design and Planning

The protective area for a caracara nest is a radius of about 1,500 meters (m) (4,920 feet) from the nest. Therefore, the survey area should include the project area and a 1,500-m buffer zone around the perimeter of the project area (including access roads) to account for off-site nest trees in territories that might overlap onto the project area. A recent aerial photograph depicting the project boundary and buffer zone should be used to identify all areas of suitable habitat and to preliminarily map observation blocks. An observation block is defined as an area easily observable from one vantage point. Enough observation blocks must be identified to cover all suitable habitats within the project boundary and 1,500-m buffer. Surveyors should try to obtain legal access to non-project property within the survey area where suitable habitat exists; these efforts should be documented (e.g., copy of letter, email, etc.). If permission cannot be obtained, contact the Service for additional guidance prior to initiating surveys.

Prior to the first survey, a site visit should be conducted to confirm suitable habitat and the location of observation blocks. Based on this site assessment (*e.g.*, presence of visual obstructions), observation blocks may need to be revised. During the site visit, also identify observer survey stations (at least one per observation block). Survey stations should be located to allow full, unobstructed view of the observation block – strategic points are those where caracaras are more likely to be seen going to and from potential nesting or foraging sites. Based on the site assessment, update the aerial photo to show suitable habitat, and labeled observation blocks and their respective survey stations. The location of survey stations may be adjusted if needed based on initial survey results in order to obtain a different/better view of caracara activity. Any adjustments to the survey design should be documented via revised maps.

Observer Qualifications

Information from a recent study (Dwyer *et al.* 2012) suggested that the probability that a visit or series of visits (*i.e.*, a survey) would lead to the discovery of an existing caracara nest increases with an experienced observer. Due to their cryptic nest site locations and unorthodox method of foraging (walking on the ground), successful nest site surveys require a specific skillset acquired by conducting numerous surveys under the supervision of an experienced caracara surveyor. In addition, caracaras can be hard to find and identify at long distances, especially under low-light conditions. Caracaras may also be wary of humans and will change their behavior in the presence of people, which can make locating nests extremely difficult for less experienced observers. Due to these factors, surveys must be conducted by a qualified biologist having at least two years of experience conducting bird surveys and at least 40 hours of caracara survey experience (i.e., equivalent to one survey season) under the supervision of an experienced caracara surveyor. If an observer does not meet these minimum qualifications,

the observer should be accompanied by a qualified observer who will serve as the primary observer. Even in cases of qualified observers, and where staff resources allow it, having two observers at the same station can increase the probability of finding a nest.

Conducting Foraging and Nesting Surveys

The highest probability of success in finding caracara nests is during the period of January through March. This period covers the time when adult caracaras are foraging to feed nestlings and therefore, become more visible to observers. As such, surveys must start no later than January 10 and continue through April 30 to provide adequate data to conclude whether or not the site contains an active caracara nest and/or foraging habitat. If the survey starts after January 10, and no nest are found, the survey may not be considered valid by the Service. Surveys considered invalid should be repeated the following nesting season using the latest Service protocol to ensure that early nesting birds were not missed. Surveys should not be conducted in November or December without additional coordination with the Service to avoid disturbing nesting caracaras during nest initiation or incubation, when they are more prone to disturbance.

A complete survey of the project area consists of one survey session every two weeks of each observation block within the project area and the 1,500-m buffer from early January (i.e., Jan 1 - 10) through April 30 (unless a nest is found within the observation block prior to April 30; in that event, begin Productivity Surveys as described below). A survey session is defined as a single survey within an identified observation block initiated at least 15 minutes prior to sunrise and lasting 3 hours (Dwyer et al. 2012). The entire 3-hour survey session must be spent viewing the one observation block – observers cannot rotate between stations, cruise roads, or leave the observation block unless following a flying caracara. If the survey area is large or includes obstructed views, and multiple observation blocks are required, then multiple observers (preferred) or additional survey sessions will be needed to complete the survey of the entire project area. Afternoon or evening surveys are optional, but cannot be substituted for early morning surveys (in the event of not finding a nest). More frequent morning surveys (i.e., more than one during any two-week period) of an observation block are also optional, and can increase the probability of finding a nest, but cannot replace the subsequent “once per two-week surveys” through April 30 (in the event of not finding a nest).

Surveys should be conducted from inside a vehicle (best option is a truck or similar vehicle to maximize height and minimize view obstructions) or an appropriate wildlife blind using high-power binoculars. This minimizes caracara disturbance and behavior alteration, and increases the probability of finding nest locations. Depending on the distance being surveyed, or the proximity of the caracara/nest being observed, it may also be acceptable for the observer to be adjacent to the vehicle if that affords better viewing. A spotting scope is essential when documenting behavior of caracaras and confirming nest tree locations that are far away. If this cannot be accomplished (e.g., due to visibility or vehicle access restrictions), the Service should be contacted to provide site-specific guidance.

Weather conditions must be adequate to clearly view the whole area. Surveys should not be conducted when it is rainy or foggy (Dwyer *et al*. 2012). Wind speed should be less than 12 miles per hour (19 kilometers per hour; Beaufort Number 3). Weather conditions and other important information must be recorded on field data sheets as itemized below (see Reporting).

During the survey, from a stationary position, search for caracara activity, including birds perched in trees or on sentinel posts, flying along roads or levees, or carrying nesting material or food. Watch for other birds, such as American crows (*Corvus brachyrhynchos*), red-tailed hawks (*Buteo jamaicensis*), red-shouldered hawks (*Buteo lineatus*), bald eagles (*Haliaeetus leucocephalus*), and turkey vultures (*Cathertes aura*), that might elicit an aggressive response from caracaras. Nesting caracaras will often chase potential predators away from the nest, thus revealing their presence. Also, vultures can indicate the presence of carrion that may attract caracaras. If the observer is near or on a road, pay attention to road-killed animals that may serve as forage for caracaras. If in a pasture, look for cow or calf carcasses on which caracaras may forage.

If a caracara is sighted, document its activity (*i.e.*, foraging, roosting, preening, territorial behavior, etc.) and location on an aerial map. If a caracara is in flight, document on the aerial map the direction the bird came from, the direction it is flying in, and if it is carrying nesting material or food. Make all reasonable efforts to track the bird to a potential nest location. If a potential nest tree is detected, then the observer can reposition to improve observation of the bird's behavior. All observer locations during a survey should be marked on the aerial. All caracara observations must be recorded on the field data sheets, including time of observation, number of birds, plumage (adult/juvenile), activity/behavior (*e.g.*, perching, foraging, feeding, preening, courtship or territorial display, etc.), and nest stage (building, incubating, nestlings, fledglings), if applicable. Corresponding caracara locations and flight paths must be marked and labeled on the aerial map. Also mark any potential or confirmed nest tree locations on the aerial photo, with GPS coordinates of the observation site and an estimate of the direction and distance of the nest from the observation point (a rangefinder may help to measure distance). Do not try to approach the nest as this may cause the caracara to abandon their nesting attempt. It may be possible to use a compass bearing from two different locations to triangulate the location of a nest tree that may be too far away and not near recognizable landmarks.

Survey sessions of each observation block must be repeated at two week intervals. Once a nest tree location is confirmed, report the location to the Service and transition to Productivity Surveys. In addition to location of nest trees, the survey data described above can be used to understand the use of the survey area (*e.g.*, as foraging or roosting habitat) by both breeding and non-breeding caracaras. Non-breeding caracaras can include both juveniles and adults. Detailed survey data are also useful in approximating boundaries of breeding territories, which is typically important to identifying the number of territories that may be impacted by a proposed project and the anticipated effect that proposed activities may have on a breeding

caracara pair. This is especially true for projects which are large in size or include habitat conversion. For more details on caracaras, see Service (1999) and Morrison and Dwyer (2012).

Conducting Productivity Surveys

Once a nest tree is confirmed or highly suspected, begin productivity surveys. These surveys involve the same repeated, two-week visits, but the surveyor need only observe the nest for the amount of time necessary to determine nest status (*i.e.,* incubating, nestlings, fledglings, or failed) and may survey the nest tree at any time during the day (assuming the weather conditions are appropriate). This will likely require much less effort per day than nest surveys. Many times, a spotting scope can be more useful than binoculars in observing activity in the nest that will indicate the nest status. As nesting progresses, the nestlings will become more active and easier to observe. Record the bird activity and number of nestlings. Record the fledging date and number of fledglings. From the fledging date, and previous observations, estimate the egg-laying date. If the nest appears to fail, continue surveying the nest tree area until April 30 as re-nesting may occur. If nests are deemed active on April 30, continue surveying those nest trees until they are either successful or have failed.

Reporting

An example field data sheet is provided at the end of this document, but observers may use their own data sheet format as long as the required information is collected. Requirements for final reports are as follows:

1. Map of field-verified habitat types within the project area and 1,500-m buffer;
2. Copies of marked aerial photo(s) showing all suitable habitat, with labeled observation blocks and their respective survey stations (including any alternate station locations used);
3. For each survey station, copies of any photos taken that document the field of view, nest tree or caracaras;
4. Documentation of efforts to contact adjacent landowners, and copies of access agreements, if applicable;
5. A summary table with the following information for each observer: name, hours of experience conducting caracara surveys (as of January 1), approximate number of caracara nests previously found, and whether the observer served as a primary or secondary observer;
6. Copies of all individual field data sheets which include the following information for each survey:
    - observation block/survey station identification,
    - survey date,
    - observer name(s),
    - observer location (*e.g.*, in a vehicle, blind, on foot),
    - start and end times,

- start and end weather conditions (temperature, wind speed and direction, cloud cover, visibility, and precipitation),
- caracara location/activity details including (for each observation):
  - time of observation,
  - number of birds,
  - plumage,
  - activity/behavior, and
  - nesting stage, if applicable, and
- an aerial map showing all observed caracara locations and flight paths (labeled to correspond with activity details) and any potential/confirmed nest tree locations; and

7. Location data (*e.g.*, latitude/longitude) for all caracara observations and potential/confirmed nest trees in Excel, projected shapefile (the preferred projection is Florida Albers NAD83 in meters), or .kml/.kmz format and attributed to include the information in (6) above.

Additional survey or reporting requirements may exist if the caracara surveys are required by a Service Biological Opinion (BO)(in this event, refer to the Terms and Conditions of the BO). For questions or additional guidance regarding the above survey protocol, please contact the Service's caracara lead biologist, Steve Schubert, at 772-469-4249 or 772-562-3909.

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Dwyer, J.F., and J.P. Dalla Rosa. 2015. Use of anthropogenic nest substrates by crested caracaras. Southeastern Naturalist 12(1):N10-N15.

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U.S. Fish and Wildlife Service (Service). 1999. South Florida multi-species recovery plan. Atlanta, Georgia. http://www.fws.gov/verobeach/MSRPPDFs/AudubonsCrestedCaracara.pdf

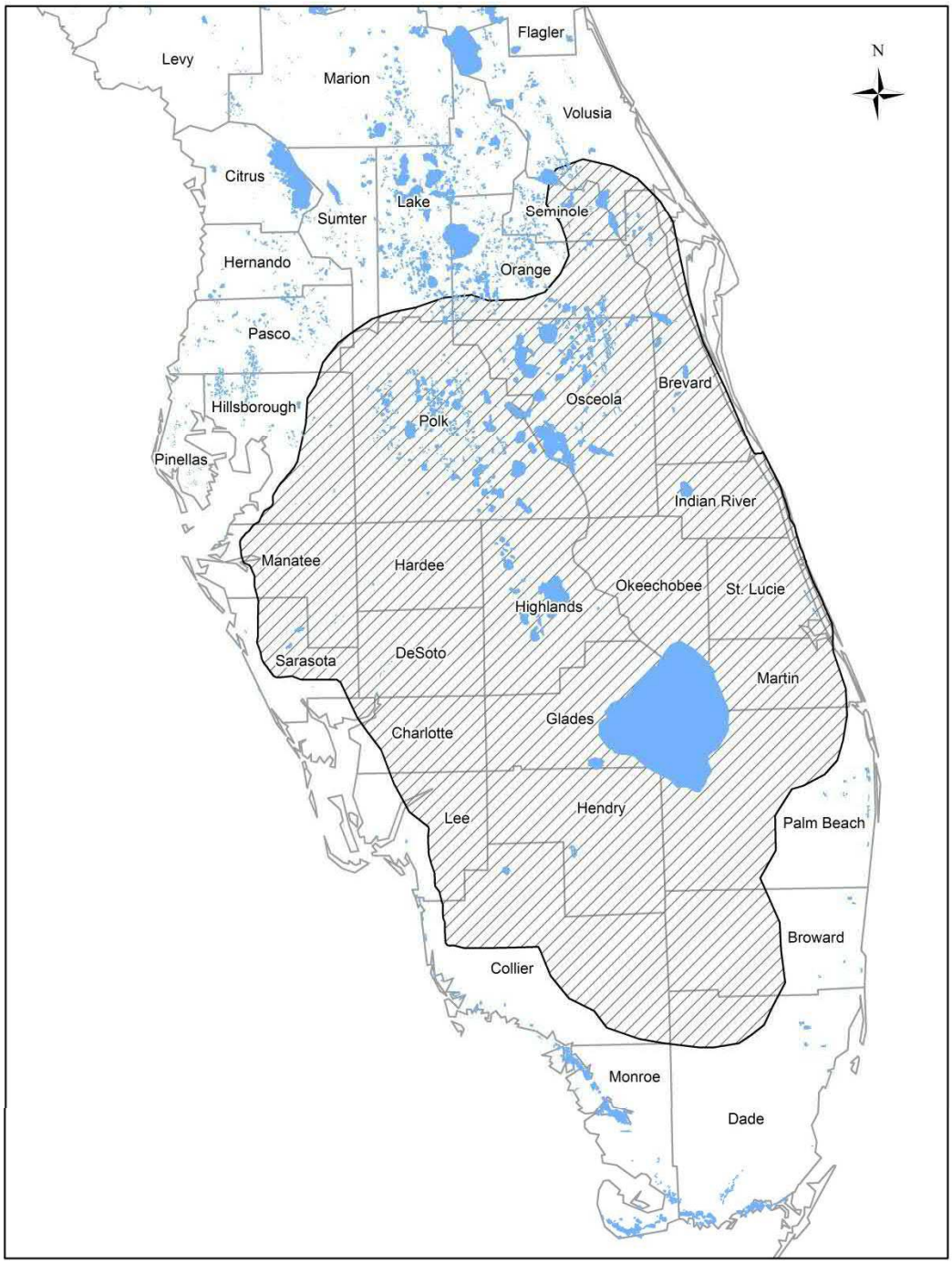


Figure 1. USFWS consultation area for crested caracara.

USFWS Crested Caracara Draft Survey Protocol –
Additional Guidance (2016-2017 Breeding Season)

Caracara Survey Form (updated 12/9/2016)

Project Name: _____

Location/Observation Block/Lat-Long:_____

Date	Start Time	Stop Time	Observer Name(s) and Experience Level(s)

Weather

Time	Air Temp	Wind Speed and Direction	% Cloud Cover	Cloud Type	Rain/Fog
Start:					
Finish:					

Observation Point Information

General Site and Habitat Conditions; Other Activities in the Area

Observations

(flight data, perching, preening, courtship, feeding, nest building, incubation, head throwback, diving, reaction to passing planes/traffic/pedestrians, other bird species, etc)

Observer Location	Age A/Im	Time	Description of behavior, flight path, etc

APPENDIX D

SHPO FLORIDA MASTER SITE FILE REPORT

This record search is for informational purposes only and does NOT constitute a project review. This search only identifies resources recorded at the Florida Master Site File and does NOT provide project approval from the Division of Historical Resources. Contact the Compliance and Review Section of the Division of Historical Resources at CompliancePermits@dos.MyFlorida.com for project review information.

March 15, 2021

Chloe Gossett
Kimley-Horn | 1920 Wekiva Way, Suite 200, West Palm Beach, FL 33411
Direct: 561 840 0217 | Mobile: 816 916 2233

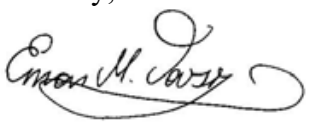
In response to your request on March 15, 2021, the Florida Master Site File lists two standing structures and one resource group recorded within 0.25 miles of the project area in St. Lucie County.

When interpreting the results of our search, please consider the following information:

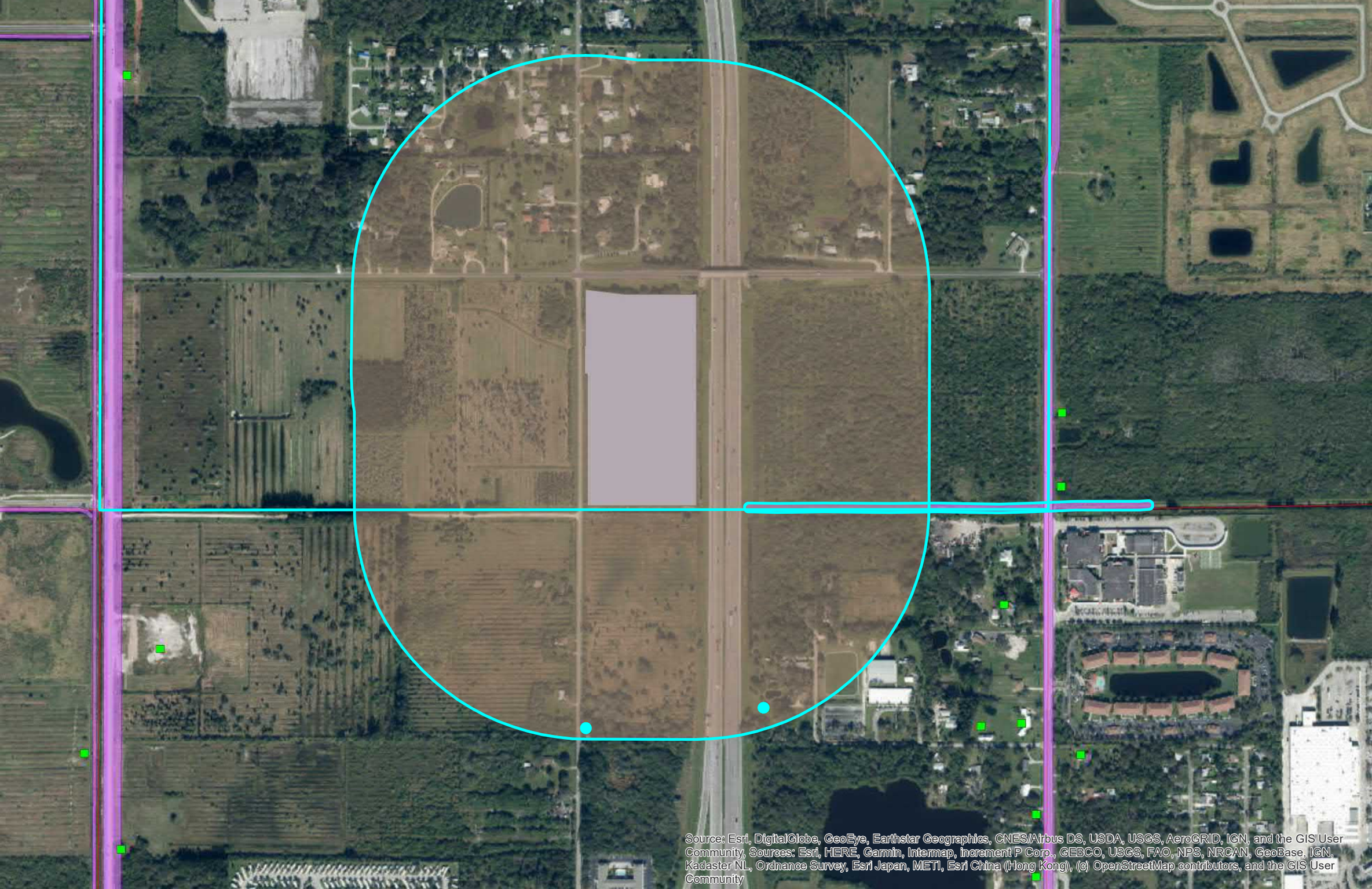
- **This search area may contain *unrecorded* archaeological sites, historical structures or other resources even if previously surveyed for cultural resources.**
- **Because vandalism and looting are common at Florida sites, we ask that you limit the distribution of location information on archaeological sites.**
- **While many of our records document historically significant resources, the documentation of a resource at the Florida Master Site File does not necessarily mean the resource is historically significant.**
- **Federal, state and local laws require formal environmental review for most projects. This search DOES NOT constitute such a review. If your project falls under these laws, you should contact the Compliance and Review Section of the Division of Historical Resources at** CompliancePermits@dos.MyFlorida.com

Please do not hesitate to contact us if you have any questions regarding the results of this search.

Sincerely,



Eman M. Vovsi, Ph.D.
Florida Master Site File
Eman.Vovsi@DOS.MyFlorida.com


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

AR=0
SS=2
CM=0
RG=1
BR=0
Total=3

Cultural Resource Roster

SiteID	Type	Site Name	Address	Additional Info	SHPO Eval	NR Status
SL01399	SS	2398 Peter Road	2398 Peter RD, Fort Pierce G.V.	1941 Masonry Vernacular		
SL01774	SS	6105 Tedder Road	6105 Tedder RD W, Ft Pierce	c1958 Masonry Vernacular	Not Eligible	
SL03140	RG	Canal No. 37	Fort Pierce	Linear Resource - 1 Contrib Resources	Not Eligible	

TRAFFIC IMPACT ANALYSIS

FORT PIERCE RV STORAGE

CITY OF FORT PIERCE, FL

Prepared for:

MACRITCHIE, INC.

Prepared by:

KIMLEY-HORN AND ASSOCIATES, INC.

MARCH 2021

Kimley»Horn

TRAFFIC IMPACT ANALYSIS

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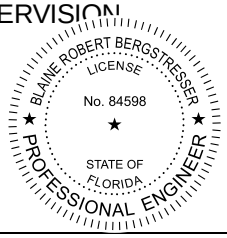
147814000
March 2021
© Kimley-Horn and Associates, Inc.
445 24th Street, Suite 200
Vero Beach, FL 32960

Kimley»Horn

THIS IS TO CERTIFY THAT THE ENCLOSED CALCULATIONS WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION.



Blaine Bergstresser, P.E.

Florida Registration #84598

Kimley-Horn Registry #696

Date: _____

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APPENDIX B: GTCRPM Model Output

APPENDIX C: Turning Movement Counts

APPENDIX D: Intersection Volume Development Worksheets

APPENDIX E: Synchro (v10) Output

- AM Peak Hour
  - 2021 Existing Traffic Conditions
  - 2024 Future Year Background Traffic Conditions
  - 2024 Future Buildout Conditions
- PM Peak Hour
  - 2021 Existing Traffic Conditions
  - 2024 Future Year Background Traffic Conditions
  - 2024 Future Buildout Conditions

APPENDIX F: NCHRP Report 457 Output

INTRODUCTION

Kimley-Horn performed a traffic impact analysis (TIA) to support a Recreational Vehicle (RV) storage facility generally located on the south side of Graham Road, east of Copenhaver Road, and west of I-95 Turnpike in St. Lucie County, Florida. The project property is currently vacant and is in the process of being annexed into the City of Fort Pierce. The development is proposed to consist of ±503 RV storage spaces and anticipated to have a buildout year of 2024.

The TIA evaluates traffic operational conditions and identifies transportation improvement needs within the study area under existing, future background, and future buildout traffic conditions. The analysis has been performed in accordance with St. Lucie County *Land Development Code Section 11.02.09* as adjacent roadway segments to the development are maintained by St. Lucie County.

Access to the site will be provided via one full-access driveway onto Copenhaver Road. There will also be an emergency exit north of the main entrance on Copenhaver Road, but it will not be evaluated because it will not be used in typical conditions. The access points are shown on the conceptual site plan provided in **Appendix A**.

This traffic analysis is based on traffic data collected in the field and supplemented by information obtained from St. Lucie County and Florida Department of Transportation (FDOT) sources. The study observed the established procedures found in Institute of Transportation Engineers (ITE) sources, FDOT sources, and the *Highway Capacity Manual 6* (HCM 6).

PROJECT TRIP GENERATION

Trip generation for the development was determined using data found in the Institute of Transportation Engineers' (ITE) *Trip Generation Manual*, Tenth Edition. ITE land use code (LUC) 151 (Mini-Warehouse) was applied in the trip generation calculations using storage units as the independent variable.

The trip generation for the development is anticipated to be 91 daily net existing trips, 6 AM (3 in, 3 out) peak hour net new external trips, and 10 PM (5 in, 5 out) peak hour trips upon buildout. **Table 1** illustrates the trip generation calculations for the site.

Table 1 - Trip Generation of Proposed Development

Land Use	Intensity	Daily Trips	AM Peak Hour of Adjacent Street			PM Peak Hour of Adjacent Street		
			Total	In	Out	Total	In	Out
Proposed Development Mini-Warehouse (RV Storage)	503 Units	91	6	3	3	10	5	5
TOTAL NET EXISTING TRIPS		91	6	3	3	10	5	5

Trip Generation was calculated using the data from ITE's Trip Generation Manual, 10th Edition

Mini-Warehouse [ITE 151]

Daily	T = 18.86(x) - 4.09 (X/100 is number of storage units)
AM Peak Hour of Adjacent Street	T = 1.98(X) - 3.79; (X/100 is number of storage units); (51% in/49% out)
PM Peak Hour of Adjacent Street	T = 1.52(X) + 2.02; (X/100 is number of storage units); (50% in/50% out)

TRIP DISTRIBUTION, ASSIGNMENT, AND STUDY AREA

Projected traffic demand of project trips on study roadways was derived with use of the adopted regional travel demand model. Land use data for the project was entered into a new traffic analysis zone (TAZ) within the Greater Treasure Coast Regional Planning Model (GTCRPM) set and situated within the existing roadway network to appropriately represent project access. The model was used to assign trips for all trip purposes between allocated origin and destination pairs using project buildout year model data. Trip distribution for the project was extracted from the completed model assignment and reviewed for logic. The resulting model plots showing percent of daily project distribution are provided in **Appendix B**.

The study area was determined based on the St. Lucie County *Land Development Code Section 11.02.09*, which states that the study area should include all major roadways within 2.0-mile radius of the site. To determine roadway segments to be included in the TIA, a 1.0% significance test was performed for all major roadway segments within a 1.0-mile radius of the project site. Roadway segments that have less than 1.0% impact from the proposed development would be considered deminimis and will not be included within the roadway study area. The percent significance for project trips was determined by comparing the maximum directional peak hour project trips to the directional peak hour service capacity as provided the latest St. Lucie Transportation Planning Organization (TPO) Traffic Counts and Level of Service Report. Therefore, the following roadway segments were included within the project's study area:

- Copenhaver Road, from Graham Road to White Road

In addition to the above noted roadway segments, the following intersections are included within the study area:

- Graham Road & Copenhaver Road (unsignalized)
- Copenhaver Road & Project Driveway (unsignalized)

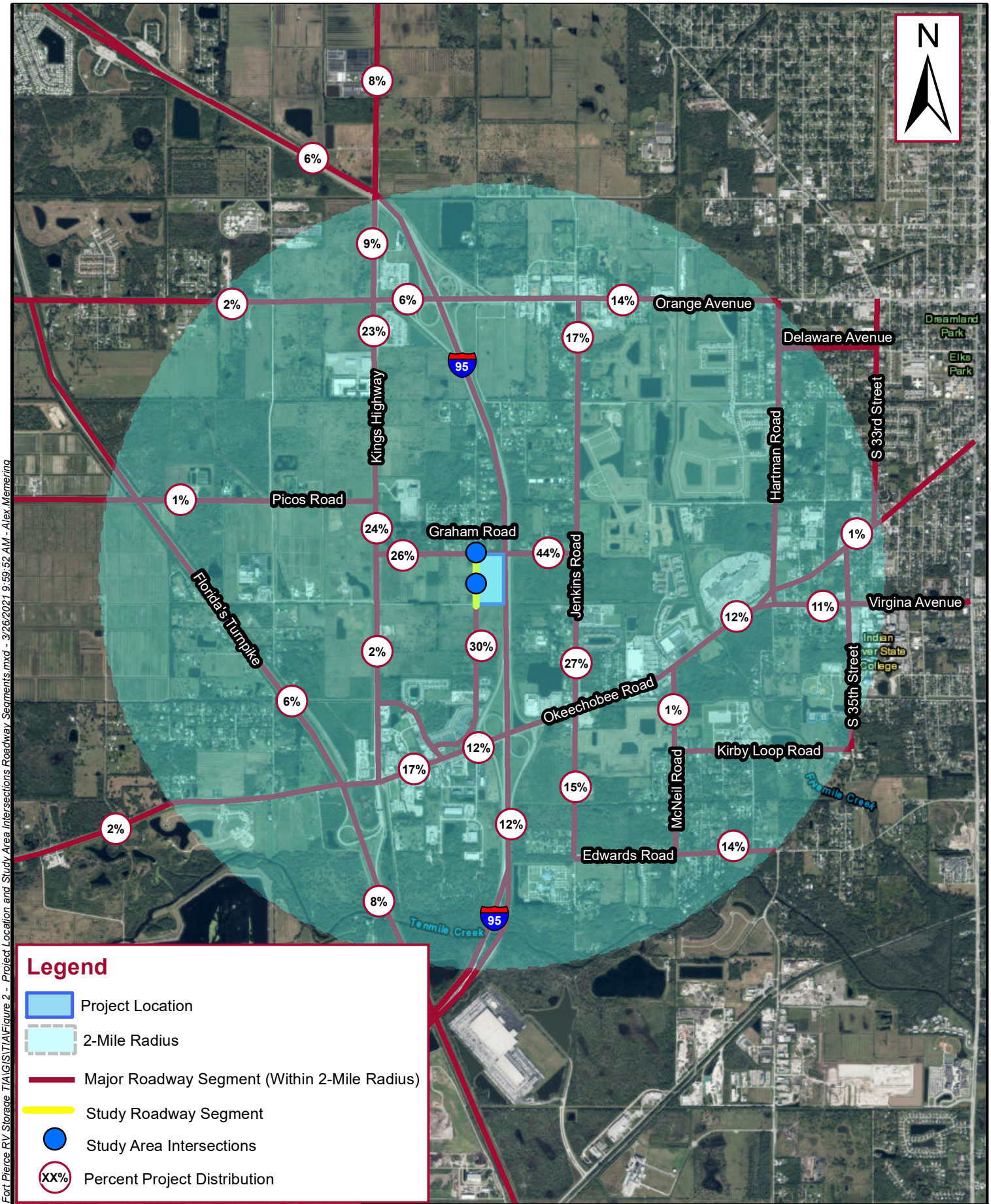
Table 2 illustrates the project impacts on roadways within a 2-mile radius per St. Lucie County Land Development Code 11.02.09 and the proposed study area. The site location, trip distribution, and study area for the traffic analysis is illustrated in **Figure 1**.

Table 2 – Study Area Determination

Roadway		Roadway Attributes [1]				Peak Hour Directional Maximum Service Volume [2]	PM Peak Hour Project Traffic				Significant Impact? [5]	Include In Study Area? [6]
From	To	Functional Classification	Area Type	Adopted LOS	Number of Lanes		% Assign [3]	NB / EB	SB / WB	Max % Impact [4]		
Copenhaver Road												
Graham Road	White Road	Local	U	D	2U	675	70.0%	4	4	0.59%	No	Yes [7]
Crossroads Parkway												
Okeechobee Road	Kings Highway	Local	U	D	2U	790	2.0%	0	0	0.00%	No	No
Delaware Avenue												
Hartman Road	S 33rd Street	Minor Collector	U	D	2U	600	2.0%	0	0	0.00%	No	No
Florida's Turnpike (SR 91)												
Orange Avenue	Okeechobee Road	Expressway	U	B	4D	2,260	6.0%	0	0	0.00%	No	No
Okeechobee Road	Glades Cut-Off Road	Expressway	U	D	4D	3,660	8.0%	0	0	0.00%	No	No
Graham Road												
Kings Highway	Jenkins Road	Local	U	D	2U	630	44.0%	2	2	0.32%	No	No
Hartman Road												
Okeechobee Road	Peterson Road	Minor Arterial	U	D	2U	750	0.0%	0	0	0.00%	No	No
Peterson Road	Deleware Avenue	Minor Arterial	U	D	2U	540	0.0%	0	0	0.00%	No	No
Deleware Avenue	Orange Avenue	Minor Arterial	U	D	2U	790	2.0%	0	0	0.00%	No	No
I-95												
Midway Road	Okeechobee Road	Interstate	U	C	6D	4,580	12.0%	1	1	0.02%	No	No
Okeechobee Road	Orange Avenue	Interstate	U	D	8D	7,320	0.0%	0	0	0.00%	No	No
Jenkins Road												
Edwards Road	Okeechobee Road	Minor Arterial	U	D	2U	880	15.0%	1	1	0.11%	No	No
Okeechobee Road	Graham Road	Minor Arterial	U	D	2U	920	27.0%	1	1	0.11%	No	No
Graham Road	Peterson Road	Minor Arterial	U	D	2U	630	17.0%	1	1	0.16%	No	No
Peterson Road	Orange Avenue	Minor Arterial	U	D	2U	920	14.0%	1	1	0.11%	No	No
Kings Highway												
Okeechobee Road	Crossroads Parkway	Principal Arterial	U	D	2U	830	0.0%	0	0	0.00%	No	No
Crossroads Parkway	Graham Road	Principal Arterial	U	D	2U	660	2.0%	0	0	0.00%	No	No
Graham Road	Picos Road	Principal Arterial	U	D	2U	660	24.0%	1	1	0.15%	No	No
Picos Road	Orange Avenue	Principal Arterial	U	D	2U	830	23.0%	1	1	0.12%	No	No
Orange Avenue	Angle Road	Principal Arterial	U	D	2U	870	9.0%	0	0	0.00%	No	No
Kirby Loop Road												
Edwards Road	35th Street	Minor Collector	U	D	2U	630	0.0%	0	0	0.00%	No	No
McNeil Road												
Okeechobee Road	Kirby Loop Road	Major Collector	U	D	2U	790	1.0%	0	0	0.00%	No	No
Kirby Loop Road	Edwards Road	Major Collector	U	D	2U	540	0.0%	0	0	0.00%	No	No
Okeechobee Road												
McCarty Road	Florida's Turnpike	Principal Arterial	R	B	4D	1,810	2.0%	0	0	0.00%	No	No
Florida's Turnpike	Kings Highway	Principal Arterial	U	C	4D	2,010	2.0%	0	0	0.00%	No	No
Kings Highway	Crossroads Parkway	Principal Arterial	U	D	6D	4,170	17.0%	1	1	0.02%	No	No
Crossroads Parkway	I-95	Principal Arterial	U	D	6D	4,170	6.0%	0	0	0.00%	No	No
I-95	Jenkins Road	Principal Arterial	U	D	6D	4,240	0.0%	0	0	0.00%	No	No
Jenkins Road	McNeil Road	Principal Arterial	U	D	6D	4,040	12.0%	1	1	0.02%	No	No
McNeil Road	Virginia Avenue	Principal Arterial	U	D	6D	3,170	12.0%	1	1	0.03%	No	No
Virginia Avenue	Hartman Road	Minor Arterial	U	D	4D	2,100	1.0%	0	0	0.00%	No	No
Hartman Road	35th St	Minor Arterial	U	D	4D	1,630	0.0%	0	0	0.00%	No	No
35th St	33rd St	Minor Arterial	U	D	4D	1,630	1.0%	0	0	0.00%	No	No
Orange Avenue												
Campbell Road	Kings Highway	Minor Arterial	R	D	2U	1,070	2.0%	0	0	0.00%	No	No
Kings Highway	I-95	Principal Arterial	U	D	4D	2,000	6.0%	0	0	0.00%	No	No
I-95	Jenkins Road	Principal Arterial	U	D	4D	2,000	0.0%	0	0	0.00%	No	No
Jenkins Road	Hartman Road	Principal Arterial	U	D	4D	2,000	14.0%	1	1	0.05%	No	No
Peters Road												
White Road	Crossroads Parkway	Local	U	D	2U	675	30.0%	2	2	0.30%	No	No
Picos Road												
Campbell Road	Kings Highway	Major Collector	U	D	2U	540	1.0%	0	0	0.00%	No	No
S 33rd Street												
Okeechobee Road	Deleware Avenue	Major Collector	U	D	2U	750	1.0%	0	0	0.00%	No	No
Deleware Avenue	Orange Avenue	Major Collector	U	D	2U	790	0.0%	0	0	0.00%	No	No
S 35th Street												
Kirby Loop Road	Cortez Boulevard	Minor Collector	U	D	2U	540	0.0%	0	0	0.00%	No	No
Cortez Boulevard	Virginia Avenue	Major Collector	U	D	2U	790	0.0%	0	0	0.00%	No	No
Virginia Avenue	Okeechobee Road	Major Collector	U	D	2U	750	1.0%	0	0	0.00%	No	No
Virginia Avenue												
Okeechobee Road	Hartman Road	Principal Arterial	U	D	6D	3,020	11.0%	1	1	0.03%	No	No
Hartman Road	S 35th Street	Principal Arterial	U	D	6D	3,020	10.0%	1	1	0.03%	No	No
S 35th Street	S 25th Street	Principal Arterial	U	D	6D	3,020	9.0%	0	0	0.00%	No	No

Notes:

1. The roadway attributes were obtained from the latest St. Lucie County Level of Service Report (Fall/Winter 2019/2020), 2010 FDOT St. Lucie County Federal Functional Classification Map, City of Fort Pierce Transportation Element, and supplemented with the 2020 FDOT Quality/LOS Tables.
2. Peak Hour Directional Maximum Service Volumes were determined using the sources listed in Note 1.
3. Percent project traffic assignment was calculated based on Greater Treasure Coast Regional Plannig Model (GTCRPM) Plots.
4. Percent impact was calculated as the maximum PM peak hour directional project traffic divided by the directional service volume.
5. A 1% significance test was perfomed for all major roadway segments within 1.0-mile radius of the project site.
6. The study area includes all roadway segments impacted by 1.0% or more of project traffic within 1.0-mile radius of the project site. Roadway segments that experience less than 1.0% impact from project traffic are considered deminimis impacts and are not included within the roadway study area.
7. The adjacent roadway segment of Copenhaver Road from Graham Road to White Road will be included within the study area as this the first accessed roadway from the site.



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445 24th Street, Suite 200, Vero Beach FL 32960
Phone: 772 794 4100

FIGURE 1 - STUDY AREA, PROJECT LOCATION, AND TRIP DISTRIBUTION

FORT PIERCE RV STORAGE
CITY OF FORT PIERCE, FLORIDA

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Z:\OCA_Civil\147814000 - Fort Pierce RV Storage TIA\GIS\TIA\Figure 2 - Project Location and Study Area Intersections Roadway Segments.mxd - 3/26/2021 9:59:52 AM - Alex.Memering

HISTORICAL GROWTH RATE

The University of Florida's Bureau of Economic and Business Research (BEBR) analyzes population growth trends in counties throughout the state, along with other statistical metrics. To determine a reasonable background growth rate for the study area, the medium BEBR growth rate for St. Lucie County was calculated.

The medium BEBR growth rate for Year 2025 is approximately 1.55%. Therefore, a 1.55% annual background growth rate was applied for use on all roadway segments in this analysis to provide conservative results. Table 3 illustrates the growth rate calculations per BEBR population trends. Growth rate calculations are provided in **Table 3**.

Table 3 – Growth Rate Calculations

County	BEBR Pop Estimate	BEBR Population Projections (April 1)		
	Apr 1, 2019	Range	2025	2025
St. Lucie County	309,359	Low	319,300	0.46%
		Medium	342,900	1.55%
		High	364,600	2.55%

Source: Bureau of Economic and Business Research (BEBR) *Projections of Florida*

COMMITTED IMPROVEMENTS

Based on the St. Lucie Transportation Planning Organization (TPO) 2045 Long Range Transportation Plan (LRTP), the TPO's Transportation Improvement Program (TIP), and the Florida Department of Transportation (FDOT) 5-year work program, no improvements were located within the study area of the development.

ROADWAY SEGMENT ANALYSIS

The study area roadway segments were evaluated for level of service (LOS) and volume-to-capacity (v/c) ratios based on 2021 existing, 2024 future background, and 2024 future buildout conditions during both the AM and PM peak hours. AM peak hour (7AM-9AM) and PM (4PM-6PM) peak hour turning movement counts were performed at the study area intersections in March 2021. The turning movement counts were adjusted to peak season using adjustment factors published by FDOT. A peak season correctional factor from 2019 Florida Traffic Online was applied to the turning movement counts in order to grow the counts to typical peak season traffic conditions. The turning movement counts are provided in **Appendix C**.

AM and PM peak hour directional traffic volumes on the study area roadway segments were compared to the adopted LOS standard obtained from St. Lucie County and roadway service volumes from the 2020 FDOT Quality and Level of Service Handbook.

Based on 2021 existing conditions roadway segment analysis, all study area roadway segments are shown to operate acceptably during both the AM and PM peak hour. The existing AM and PM peak hour traffic conditions is provided in **Table 4** and **Table 5**, respectively.

FUTURE 2024 BACKGROUND TRAFFIC CONDITIONS ANALYSIS

The 2024 future background (without project) traffic volumes were developed by calculating the existing peak season traffic volumes and anticipated background growth applied through year 2024. An annual background growth rate of 1.55% was applied to the existing roadway segment volumes as previously calculated.

AM and PM peak hour directional traffic volumes on the study area roadway segments were compared to the adopted LOS standard as obtained from St. Lucie County guidelines and roadway service volumes from the 2020 FDOT Quality and Level of Service Handbook.

Table 6 and **Table 7** illustrate the 2024 future background (without project) traffic volumes and LOS analysis during AM and PM peak hour traffic conditions. The study area roadway segments are shown to operate acceptably during 2024 future background (without project) AM and PM peak hour traffic conditions.

FUTURE 2024 BUILDOUT TRAFFIC CONDITIONS ANALYSIS

The 2024 buildout (with project) traffic volumes were calculated as the sum of the background traffic volumes and project traffic. AM and PM peak hour directional traffic volumes on the study area roadway segments were compared to the adopted LOS standard as obtained from St. Lucie County guidelines and roadway service volumes from the 2020 FDOT Quality and Level of Service Handbook.

Table 8 and **Table 9** illustrate the 2024 buildout (with project) traffic volumes and LOS analysis during AM and PM peak hour traffic conditions. The study area roadway segments are shown to operate acceptably during 2024 buildout (with project) AM and PM peak hour traffic conditions.

Table 4 - Existing PM peak Hour Roadway Conditions

Roadway From	To	Roadway Attributes [1] Functional Classification	Area Type	Adopted LOS	Number of Lanes	Peak Hour Directional Maximum Service Volume [2]	Existing Peak Season Traffic Conditions Volumes [3] NB/EB	SB/WB	Max V/C Ratio	LOS
Copenhaver Road Graham Road	White Road	Local	U	D	2U	675	43	27	0.06	C

Notes:

1. The roadway attributes were obtained from the 2010 FDOT St. Lucie County Federal Functional Classification Map, St. Lucie County Transportation Element, and supplemented with the 2020 FDOT Quality/LOS Tables.
2. Peak Hour Directional Maximum Service Volumes were determined using the sources listed in Note 1.
3. Existing Peak Season Traffic Volumes obtained from turning movement counts performed in March 2021.

Table 5 - Existing PM peak Hour Roadway Conditions

Roadway From	To	Roadway Attributes [1] Functional Classification	Area Type	Adopted LOS	Number of Lanes	Peak Hour Directional Maximum Service Volume [2]	Existing Peak Season Traffic Conditions Volumes [3] NB/EB	SB/WB	Max V/C Ratio	LOS
Copenhaver Road Graham Road	White Road	Local	U	D	2U	675	41	47	0.07	C

Notes:

1. The roadway attributes were obtained from the 2010 FDOT St. Lucie County Federal Functional Classification Map, St. Lucie County Transportation Element, and supplemented with the 2020 FDOT Quality/LOS Tables.
2. Peak Hour Directional Maximum Service Volumes were determined using the sources listed in Note 1.
3. Existing Peak Season Traffic Volumes obtained from turning movement counts performed in March 2021.

Table 6 – Future Buildout AM Peak Hour Roadway Conditions

Roadway		Peak Hour Directional Maximum Service Volume [1]	Applied Growth Rate [2]	Future Background Peak Hour Traffic Conditions				AM Peak Hour Project Traffic			Future Buildout Peak Hour Traffic Conditions			
				Volumes [2]		Max V/C Ratio	LOS				Volumes [4]		Max V/C Ratio	LOS
From	To			NB / EB	SB / WB			% Assign [3]	NB / EB	SB / WB	NB / EB	SB / WB		
Copenhaver Road														
Graham Road	Project Driveway	675	1.55%	45	28	0.07	C	70.0%	2	2	47	30	0.07	C
Project Driveway	White Road	675	1.55%	45	28	0.07	C	30.0%	1	1	46	29	0.07	C

Notes:

1. The roadway attributes were obtained from the latest 2010 FDOT St. Lucie County Federal Functional Classification Map, St. Lucie County Transportation Element, and supplemented with the 2020 FDOT Quality/LOS Tables.

2. Peak Hour Directional Maximum Service Volumes were determined using the sources listed in Note 1.
3. Percent project traffic assignment was calculated as the maximum across roadway segment.
4. Buildout project traffic volumes are the summation of future background traffic and project traffic.

Table 7 – Future Buildout PM Peak Hour Roadway Conditions

Roadway		Peak Hour Directional Maximum Service Volume [1]	Applied Growth Rate [2]	Future Background Peak Hour Traffic Conditions				PM Peak Hour Project Traffic			Future Buildout Peak Hour Traffic Conditions			
				Volumes [2]		Max V/C Ratio	LOS				Volumes [4]		Max V/C Ratio	LOS
From	To			NB / EB	SB / WB			% Assign [3]	NB / EB	SB / WB	NB / EB	SB / WB		
Copenhaver Road														
Graham Road	Project Driveway	675	1.55%	43	49	0.07	C	70.0%	4	4	47	53	0.08	C
Project Driveway	White Road	675	1.55%	43	49	0.07	C	30.0%	2	2	45	51	0.08	C

Notes:

1. The roadway attributes were obtained from the latest 2010 FDOT St. Lucie County Federal Functional Classification Map, St. Lucie County Transportation Element, and supplemented with the 2020 FDOT Quality/LOS Tables.

2. Peak Hour Directional Maximum Service Volumes were determined using the sources listed in Note 1.
3. Percent project traffic assignment was calculated as the maximum across roadway segment.
4. Buildout project traffic volumes are the summation of future background traffic and project traffic.

INTERSECTION CAPACITY ANALYSIS

Intersection analyses was performed for the intersections within the project's study area. The intersection was evaluated for 2021 existing, 2024 future background (without project), and 2024 future buildout (with project) traffic conditions during both the AM and PM peak hour. AM peak hour (7AM-9AM) and PM (4PM-6PM) peak hour turning movement counts were performed at the study area intersections in March 2021. The turning movement counts were adjusted to peak season using adjustment factors published by FDOT. The turning movement counts are provided in **Appendix C**.

Intersection volume development worksheets detailing the future traffic development at the intersections are provided in **Appendix D**. The AM and PM peak hour intersection turning movement volumes at buildout for the study area intersections are illustrated in **Figure 2**.

2021 EXISTING TRAFFIC CONDITIONS ANALYSIS

Synchro (v10) software, which is based on *Highway Capacity Manual (2010*) was utilized to perform the intersection evaluations. Existing intersection geometry, peak hour factor and percent heavy vehicles (as obtained from the traffic counts) were input into Synchro (v10) for the analysis.

Table 8 details the intersection LOS results for 2021 existing traffic conditions. The study area intersection is shown to operate with an acceptable overall LOS and v/c ratio less than 1.0. Synchro 10 output is provided within **Appendix E**.

Table 8 – 2021 Existing Traffic Conditions Intersection Summary

Intersection	2021 Existing Conditions		
	Inter-section LOS	Inter-section Delay (S)	Max Movement V/C
AM Peak Hour Traffic			
Unsignalized[1] Graham Road & Copenhaver Road	B/B	10.7/11.2	0.07/0.07
PM Peak Hour Traffic			
Unsignalized[1] Graham Road & Copenhaver Road	B/B	10.2/11.0	0.06/0.03

Notes:
1. Intersection LOS and delay at unsignalized intersections are reported for the stop-controlled approaches only.

2024 FUTURE BACKGROUND TRAFFIC CONDITIONS ANALYSIS

The intersection of Graham Road and Copenhaver Road within the study area was evaluated for 2024 future background (without project) traffic conditions. An annual background growth rate of 1.55% was applied to the existing peak season volumes as outlined previously. **Table 9** details the results of the intersection analysis considering 2024 future background (without project) traffic volumes. The study area intersection is shown to operate with acceptable LOS, delays, and v/c ratios less than 1.0. Synchro 10 output is provided within **Appendix E**.

Table 9 – 2024 Future Background Traffic Conditions Intersection Summary

Intersection	2024 Future Background Conditions		
	Inter-section LOS	Inter-section Delay (S)	Max Movement V/C
AM Peak Hour Traffic			
Unsignalized[1]			
Graham Road & Copenhaver Road	B/B	10.8/11.4	0.08/0.08
PM Peak Hour Traffic			
Unsignalized[1]			
Graham Road & Copenhaver Road	B/B	10.2/11.1	0.06/0.03

Notes:
1. Intersection LOS and delay at unsignalized intersections are reported for the stop-controlled approaches only.

2024 FUTURE BUILDOUT TRAFFIC CONDITIONS ANALYSIS

The intersection and driveway within the study area was evaluated for 2024 buildout (with project) traffic conditions. Project traffic from the proposed development was added to the future background traffic volumes to calculate future buildout traffic volumes.

Table 10 details the results of the intersection analysis considering 2024 buildout (with project) traffic volumes. The study area intersection and project driveway are shown to operate with an acceptable level LOS and v/c ratio less than 1.0 upon buildout. Synchro 10 output is provided within **Appendix E**.

Table 10 – 2024 Future Buildout Traffic Conditions Intersection Summary

Intersection	2024 Future Buildout Conditions		
	Inter-section LOS	Inter-section Delay (S)	Inter-section V/C
AM Peak Hour Traffic			
Unsignalized[1]			
Graham Road & Copenhaver Road	B/B	10.9/11.5	0.08/0.08
Copenhaver Road & Project Driveway	A	9.7	0.01
PM Peak Hour Traffic			
Unsignalized[1]			
Graham Road & Copenhaver Road	B/B	10.5/11.2	0.08/0.03
Copenhaver Road & Project Driveway	A	9.7	0.01

Notes:
1. Intersection LOS and delay at unsignalized intersections are reported for the stop-controlled approaches only.

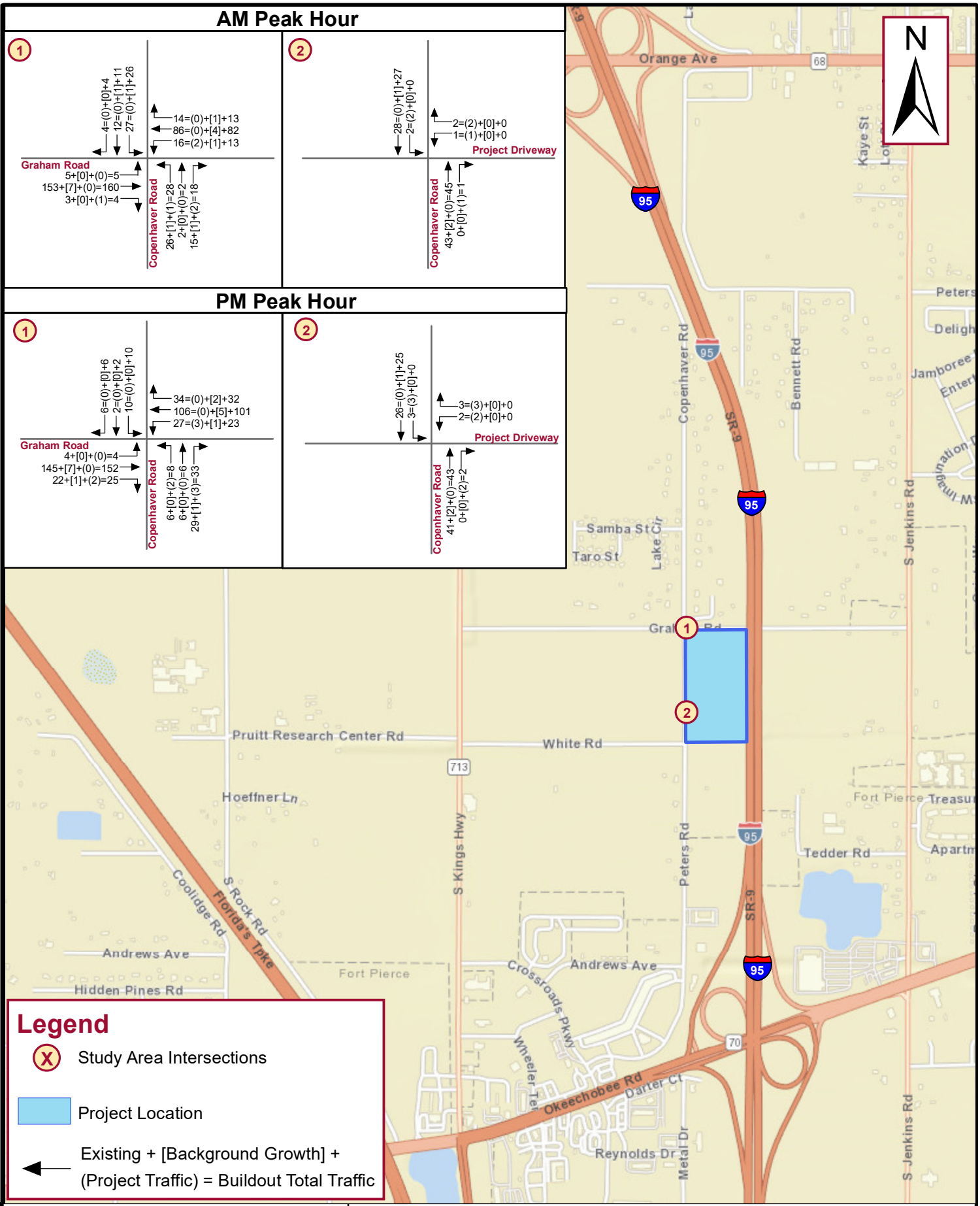

FIGURE 2 - AM & PM PEAK HOUR BUILDOUT TRAFFIC VOLUMES

FORT PIERCE RV STORAGE
CITY OF FORT PIERCE, FLORIDA

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Phone: 772 794 4100

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Z:\OCA_Civil\147814000 - Fort Pierce RV Storage TIA\GIS\TIA\Figure 2 - AM PM Peak Hour Buildout Traffic Volumes.mxd - 3/26/2021 10:02:24 AM - Alex.Memering

SITE ACCESS ANALYSIS

Access to the site will be provided via one full-access driveway onto Copenhaver Road. There will also be an emergency exit north of the main entrance on Copenhaver Road, but it was not be evaluated because it will not be used in typical conditions.

PROJECT DRIVEWAY AT PROPOSED FULL ACCESS DRIVEWAY

The observed traffic volumes on Copenhaver Road, as well as the projected ingress turning volumes at the proposed project driveway, were compared to the thresholds of the National Cooperative of Highway Research Programs (NCHRP) Report 457 for determination of whether a major road left-turn lane is required at a stop-controlled minor street intersection. Report NCHRP 457 compares the major street speed, approach volume, opposing volume, and left-turning volume to determine whether a dedicated left-turn lane is warranted on the major street approach. Based on the low ingress left-turn volumes projected at the project driveway, and the low existing traffic volumes on Copenhaver Road during the AM and PM peak hours, an exclusive southbound left-turn lane at the project driveway is not warranted based on the criteria within the NCHRP 457 analysis.

The observed traffic volumes on Copenhaver Road, as well as the projected ingress turning volumes at the proposed project driveway, were compared to the thresholds of the NCHRP Report 457 for determination of whether a major road right-turn lane is required at a stop-controlled minor street intersection. Report NCHRP 457 compares the major street speed, approach volume, and right-turning volume to determine whether a dedicated right-turn lane is warranted on the major street approach. Based on the low ingress right-turn volumes projected at the project driveway, and the low existing traffic volumes on Copenhaver Road during the AM and PM peak hours, an exclusive northbound right-turn lane at the project driveway is not warranted based on the criteria within the NCHRP 457 analysis.

The NCRHP Report 457 output for the southbound left-turn lane and northbound right-turn lane during the AM and PM peak hour are provided within **Appendix F**.

CONCLUSION

This traffic impact analysis was prepared to support the proposed Recreational Vehicle (RV) storage facility generally located on the south side of Graham Road, east of Copenhaver Road, and west of I-95 Turnpike in City of Fort Pierce, Florida. The project property is currently vacant and is in the process of being annexed into the City of Fort Pierce. The development is proposed to consist of ±503 RV storage spaces and anticipated to have a buildout year of 2024.

The analysis concludes that all road segments and intersections within the study area are anticipated to operate with acceptable LOS during both AM and PM peak hour 2021 existing, 2024 future background (without project), and 2024 future buildout traffic conditions.

Access to the site will be provided via one full-access driveway onto Copenhaver Road. There will also be an emergency exit north of the main entrance on Copenhaver Road, but it was not be evaluated because it will not be used in typical conditions. Based on the low ingress projected volumes at the project driveway on Copenhaver Road, no ingress turn lanes are warranted at the proposed project driveway.

The results within this report satisfy the requirements set forth by St. Lucie County for evaluating proposed development impacts.

APPENDICES

APPENDIX A:
Conceptual Site Plan

PRE-APP QUESTIONS:

1. WOULD THIS DEVELOPMENT TRIGGER A TRAFFIC STUDY?
2. WHAT ARE THE FIRE / LIFE SAFETY REQUIREMENTS? IN PARTICULAR, FOR SPRINKLERING OF THE CANOPIES OR IF FIRE HYDRANTS ARE REQUIRED AROUND THE SITE.
3. ARE THERE ANY OFF-SITE IMPROVEMENTS THAT ARE EXPECTED AS PART OF THIS DEVELOPMENT?
4. WHAT ARE THE SITE SCREENING AND SIGNAGE REQUIREMENTS. IN PARTICULAR, WE WOULD REQUEST VISIBILITY FROM I-95.

PROPOSED ENTRANCE
COPENHAVER RD
EMERGENCY SITE ACCESS ONLY
PROPOSED OFFICE
PROPOSED DUMP STATIONS
PROPOSED DUMPSTERS
PROPOSED PUMP ROOM
PROPOSED WASH STATIONS
PROPOSED DETENTION POND
TREE PROTECTION AREA
GRAHAM RD
PROPOSED SWALE
I-95

49
85
92
40
26
8
28
51
32

45.0'
40.0'

CANOPY SAMPLE



SITE DATA
SITE ADDRESS: 2192 COPENHAVER RD, FT PIERCE, FL
PARCEL ID: 2313432000000004

TOTAL SITE AREA: 17.375 AC
45' RV STORAGE: 443 SPACES
40' RV STORAGE: 60 SPACES
TOTAL RV STORAGE: 503 SPACES

ASSUMED ZONING: C-3 (GENERAL COMMERCIAL)

STORMWATER FACILITIES: ~3.74 AC
10-YR, 24-HOUR ASSUMED VOLUME: ≈8.57 AC-FT
25-YR, 72-HOUR ASSUMED VOLUME: ≈14.09 AC-FT

TREE PROTECTION AREA: ~3.03 AC

RV STORAGE - FT. PIERCE - CONCEPTUAL SITE PLAN

9 CANOPIES:
443 (11'X45') STALLS; 60 (11'X40' STALLS)

NORTH

GRAPHIC SCALE IN FEET
0 25 50 100

DATE: 11/30/2020

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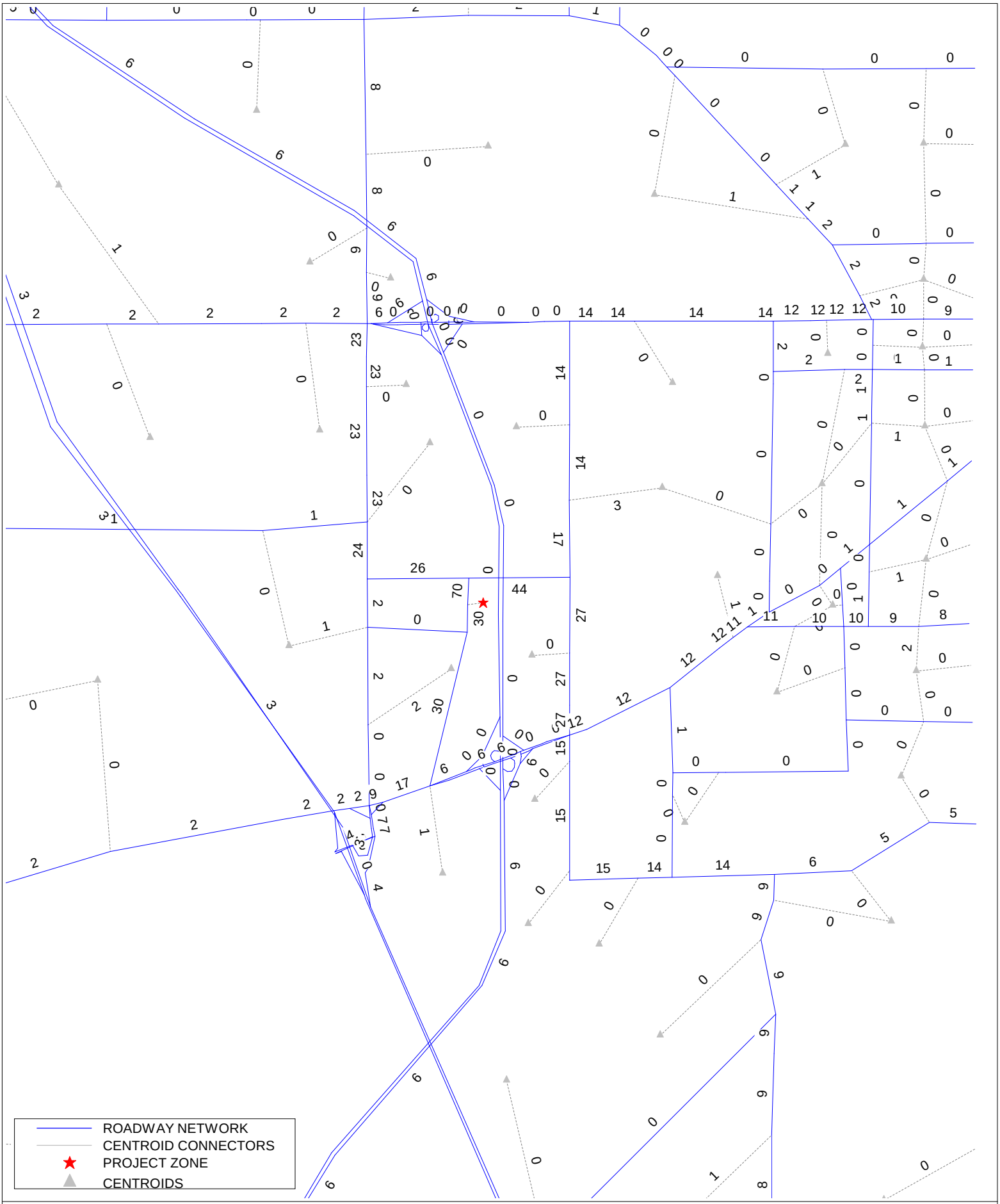
APPENDIX B:
GTCRPM Model Output



MODEL RUN - FORT PIERCE RV STORAGE
TRAFFIC DISTRIBUTION (PERCENTAGES)
3/1/2021
C:\FSUTMS\D4\GTCRPM\NGTC33\Base\minor mods\OUTPUT\FINAL_LOADED_A05.NET

cube

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APPENDIX C:
Turning Movement Counts

AM and PM peak hour turning movement counts were performed on March 11, 2021.

		Graham Road & Copenhaver Road (AM Peak Hour)											
		Northbound			Southbound			Eastbound			Westbound		
Interval	Time	L	T	R	L	T	R	L	T	R	L	T	R
1	7:00	1	0	2	8	0	1	0	28	1	3	16	2
2	7:15	2	0	5	5	3	1	0	44	0	4	15	1
3	7:30	9	1	3	8	3	1	0	41	0	5	26	1
4	7:45	7	0	4	2	3	2	4	38	1	0	20	8
5	8:00	8	1	3	11	2	0	1	30	2	4	21	3
6	8:15	0	0	5	3	0	0	0	29	1	8	21	2
7	8:30	5	0	2	4	0	2	0	25	1	3	16	2
8	8:45	1	0	7	9	1	0	0	19	1	3	13	5
AM Peak Hour: 7:15AM - 8:15AM				PHF	0.90								
	PH Vol.	26	2	15	26	11	4	5	153	3	13	82	13

		Graham Road & Copenhaver Road (PM Peak Hour)											
		Northbound			Southbound			Eastbound			Westbound		
Interval	Time	L	T	R	L	T	R	L	T	R	L	T	R
1	16:00	1	0	2	3	2	1	2	37	3	3	24	3
2	16:15	2	1	2	3	1	2	0	27	4	4	23	7
3	16:30	2	3	5	1	0	4	3	34	7	5	37	7
4	16:45	1	1	10	5	1	2	1	38	7	7	16	7
5	17:00	3	2	6	2	0	0	0	28	4	7	21	8
6	17:15	0	0	8	2	1	0	0	45	4	4	27	10
7	17:30	2	1	6	2	0	2	2	31	4	10	26	8
8	17:45	3	0	10	6	0	2	1	23	2	8	25	4
PM Peak Hour: 4:30PM - 5:30PM				PHF	0.89								
	PH Vol.	6	6	29	10	2	6	4	145	22	23	101	32

		Project Driveway & Copenhaver Road (AM Peak Hour)											
		Northbound			Southbound			Eastbound			Westbound		
Interval	Time	L	T	R	L	T	R	L	T	R	L	T	R
1	7:00	0	3	0	0	4	0	0	0	0	0	0	0
2	7:15	0	7	0	0	7	0	0	0	0	0	0	0
3	7:30	0	13	0	0	8	0	0	0	0	0	0	0
4	7:45	0	11	0	0	4	0	0	0	0	0	0	0
5	8:00	0	12	0	0	8	0	0	0	0	0	0	0
6	8:15	0	5	0	0	9	0	0	0	0	0	0	0
7	8:30	0	7	0	0	4	0	0	0	0	0	0	0
8	8:45	0	8	0	0	5	0	0	0	0	0	0	0
AM Peak Hour: 7:15AM - 8:15AM													
	PH Vol.	0	43	0	0	27	0	0	0	0	0	0	0

		Project Driveway & Copenhaver Road (PM Peak Hour)											
		Northbound			Southbound			Eastbound			Westbound		
Interval	Time	L	T	R	L	T	R	L	T	R	L	T	R
1	16:00	0	3	0	0	8	0	0	0	0	0	0	0
2	16:15	0	5	0	0	8	0	0	0	0	0	0	0
3	16:30	0	10	0	0	4	0	0	0	0	0	0	0
4	16:45	0	12	0	0	8	0	0	0	0	0	0	0
5	17:00	0	11	0	0	9	0	0	0	0	0	0	0
6	17:15	0	8	0	0	4	0	0	0	0	0	0	0
7	17:30	0	9	0	0	5	0	0	0	0	0	0	0
8	17:45	0	13	0	0	0	0	0	0	0	0	0	0
PM Peak Hour: 4:30PM - 5:30PM													
	PH Vol.	0	41	0	0	25	0	0	0	0	0	0	0

APPENDIX D:
Intersection Volume Development Worksheets

INTERSECTION VOLUME DEVELOPMENT

Graham Road & Copenhaver Road

AM PEAK HOUR	Northbound			Southbound			Eastbound			Westbound		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Counted on 3/11/2021	26	2	15	26	11	4	5	153	3	13	82	13
Peak Season Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
2021 Peak Season Volumes	26	2	15	26	11	4	5	153	3	13	82	13
Annual Growth Rate	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%
2024 Background Growth	1	0	1	1	1	0	0	7	0	1	4	1
Traffic % Assignment	26%		44%						26%	44%		
Project Traffic Direction	OUT		OUT						IN	IN		
Project Traffic	1		2						1	2		
2024 Background Traffic	27	2	16	27	12	4	5	160	3	14	86	14
2024 Total Traffic	28	2	18	27	12	4	5	160	4	16	86	14

PM PEAK HOUR	Northbound			Southbound			Eastbound			Westbound		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Counted on 3/11/2021	6	6	29	10	2	6	4	145	22	23	101	32
Peak Season Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
2021 Peak Season Volumes	6	6	29	10	2	6	4	145	22	23	101	32
Annual Growth Rate	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%
2024 Background Growth	0	0	1	0	0	0	0	7	1	1	5	2
Traffic % Assignment	26%		44%						26%	44%		
Project Traffic Direction	OUT		OUT						IN	IN		
Project Traffic	2		3						2	3		
2024 Background Traffic	6	6	30	10	2	6	4	152	23	24	106	34
2024 Total Traffic	8	6	33	10	2	6	4	152	25	27	106	34

INTERSECTION VOLUME DEVELOPMENT

Copenhaver Road & Project Driveway

AM PEAK HOUR	Northbound			Southbound			Eastbound			Westbound		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Counted on 3/11/2021	0	43	0	0	27	0	0	0	0	0	0	0
Peak Season Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
2021 Peak Season Volumes	0	43	0	0	27	0	0	0	0	0	0	0
Annual Growth Rate	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%
2024 Background Growth	0	2	0	0	1	0	0	0	0	0	0	0
Traffic % Assignment			30%	70%						30%		70%
Project Traffic Direction			IN	IN						OUT		OUT
Project Traffic			1	2						1		2
2024 Background Traffic	0	45	0	0	28	0	0	0	0	0	0	0
2024 Total Traffic	0	45	1	2	28	0	0	0	0	1	0	2

PM PEAK HOUR	Northbound			Southbound			Eastbound			Westbound		
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Counted on 3/11/2021	0	41	0	0	25	0	0	0	0	0	0	0
Peak Season Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
2021 Peak Season Volumes	0	41	0	0	25	0	0	0	0	0	0	0
Annual Growth Rate	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%	1.55%
2024 Background Growth	0	2	0	0	1	0	0	0	0	0	0	0
Traffic % Assignment			30%	70%						30%		70%
Project Traffic Direction			IN	IN						OUT		OUT
Project Traffic			2	3						2		3
2024 Background Traffic	0	43	0	0	26	0	0	0	0	0	0	0
2024 Total Traffic	0	43	2	3	26	0	0	0	0	2	0	3

APPENDIX E:
Synchro (v10) Output

AM Peak Hour

2021 Existing Traffic Conditions



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	5	153	3	13	82	13	26	2	15	26	11	4
Future Volume (vph)	5	153	3	13	82	13	26	2	15	26	11	4
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	6	170	3	14	91	14	29	2	17	29	12	4
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	179	0	0	119	0	0	48	0	0	45	0
Sign Control		Free			Free			Stop			Stop	

Intersection Summary
Control Type: Unsignalized

Intersection	
Int Delay, s/veh	3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	5	153	3	13	82	13	26	2	15	26	11	4
Future Vol, veh/h	5	153	3	13	82	13	26	2	15	26	11	4
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	6	170	3	14	91	14	29	2	17	29	12	4

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	105	0	0	173	0	0	318	317	172	319	311	98
Stage 1	-	-	-	-	-	-	184	184	-	126	126	-
Stage 2	-	-	-	-	-	-	134	133	-	193	185	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1486	-	-	1404	-	-	635	599	872	634	604	958
Stage 1	-	-	-	-	-	-	818	747	-	878	792	-
Stage 2	-	-	-	-	-	-	869	786	-	809	747	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1486	-	-	1404	-	-	615	590	872	613	595	958
Mov Cap-2 Maneuver	-	-	-	-	-	-	615	590	-	613	595	-
Stage 1	-	-	-	-	-	-	815	744	-	874	783	-
Stage 2	-	-	-	-	-	-	842	777	-	788	744	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.2	0.9	10.7	11.2
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	684	1486	-	-	1404	-	-	630
HCM Lane V/C Ratio	0.07	0.004	-	-	0.01	-	-	0.072
HCM Control Delay (s)	10.7	7.4	0	-	7.6	0	-	11.2
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.2	0	-	-	0	-	-	0.2

2024 Future Year Background Traffic Conditions



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	5	160	3	14	86	14	27	2	16	27	12	4
Future Volume (vph)	5	160	3	14	86	14	27	2	16	27	12	4
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Adj. Flow (vph)	6	178	3	16	96	16	30	2	18	30	13	4
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	187	0	0	128	0	0	50	0	0	47	0
Sign Control		Free			Free			Stop			Stop	

Intersection Summary
Control Type: Unsignalized

Intersection	
Int Delay, s/veh	3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	5	160	3	14	86	14	27	2	16	27	12	4
Future Vol, veh/h	5	160	3	14	86	14	27	2	16	27	12	4
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	6	178	3	16	96	16	30	2	18	30	13	4

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	112	0	0	181	0	0	337	336	180	338	329	104
Stage 1	-	-	-	-	-	-	192	192	-	136	136	-
Stage 2	-	-	-	-	-	-	145	144	-	202	193	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1478	-	-	1394	-	-	617	585	863	616	590	951
Stage 1	-	-	-	-	-	-	810	742	-	867	784	-
Stage 2	-	-	-	-	-	-	858	778	-	800	741	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1478	-	-	1394	-	-	595	575	863	594	580	951
Mov Cap-2 Maneuver	-	-	-	-	-	-	595	575	-	594	580	-
Stage 1	-	-	-	-	-	-	806	738	-	863	775	-
Stage 2	-	-	-	-	-	-	829	769	-	777	737	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.2	0.9	10.8	11.4
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	668	1478	-	-	1394	-	-	611
HCM Lane V/C Ratio	0.075	0.004	-	-	0.011	-	-	0.078
HCM Control Delay (s)	10.8	7.4	0	-	7.6	0	-	11.4
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.2	0	-	-	0	-	-	0.3

2024 Future Buildout Conditions



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	5	160	3	16	86	14	28	2	18	27	12	4
Future Volume (vph)	5	160	3	16	86	14	28	2	18	27	12	4
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	2%	2%	25%	13%	2%	2%	4%	2%	11%	2%	2%	2%
Adj. Flow (vph)	6	178	3	18	96	16	31	2	20	30	13	4
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	187	0	0	130	0	0	53	0	0	47	0
Sign Control		Free			Free			Stop			Stop	

Intersection Summary

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	3.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	5	160	3	16	86	14	28	2	18	27	12	4
Future Vol, veh/h	5	160	3	16	86	14	28	2	18	27	12	4
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	2	2	25	13	2	2	4	2	11	2	2	2
Mvmt Flow	6	178	3	18	96	16	31	2	20	30	13	4

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	112	0	0	181	0	0	341	340	180	343	333	104
Stage 1	-	-	-	-	-	-	192	192	-	140	140	-
Stage 2	-	-	-	-	-	-	149	148	-	203	193	-
Critical Hdwy	4.12	-	-	4.23	-	-	7.14	6.52	6.31	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.14	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.14	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.317	-	-	3.536	4.018	3.399	3.518	4.018	3.318
Pot Cap-1 Maneuver	1478	-	-	1331	-	-	609	582	840	611	587	951
Stage 1	-	-	-	-	-	-	805	742	-	863	781	-
Stage 2	-	-	-	-	-	-	849	775	-	799	741	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1478	-	-	1331	-	-	587	571	840	586	576	951
Mov Cap-2 Maneuver	-	-	-	-	-	-	587	571	-	586	576	-
Stage 1	-	-	-	-	-	-	801	738	-	859	770	-
Stage 2	-	-	-	-	-	-	819	764	-	774	737	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.2	1.1	10.9	11.5
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	661	1478	-	-	1331	-	-	605
HCM Lane V/C Ratio	0.081	0.004	-	-	0.013	-	-	0.079
HCM Control Delay (s)	10.9	7.4	0	-	7.7	0	-	11.5
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.3	0	-	-	0	-	-	0.3



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	1	2	45	1	2	28
Future Volume (vph)	1	2	45	1	2	28
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Heavy Vehicles (%)	100%	100%	2%	100%	100%	2%
Adj. Flow (vph)	1	2	50	1	2	31
Shared Lane Traffic (%)						
Lane Group Flow (vph)	3	0	51	0	0	33
Sign Control	Stop		Free			Free

Intersection Summary

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	0.6

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	1	2	45	1	2	28
Future Vol, veh/h	1	2	45	1	2	28
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	100	100	2	100	100	2
Mvmt Flow	1	2	50	1	2	31

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	86	51	0	0	51	0
Stage 1	51	-	-	-	-	-
Stage 2	35	-	-	-	-	-
Critical Hdwy	7.4	7.2	-	-	5.1	-
Critical Hdwy Stg 1	6.4	-	-	-	-	-
Critical Hdwy Stg 2	6.4	-	-	-	-	-
Follow-up Hdwy	4.4	4.2	-	-	3.1	-
Pot Cap-1 Maneuver	722	797	-	-	1104	-
Stage 1	771	-	-	-	-	-
Stage 2	785	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	721	797	-	-	1104	-
Mov Cap-2 Maneuver	721	-	-	-	-	-
Stage 1	771	-	-	-	-	-
Stage 2	783	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9.7	0	0.6
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	770	1104	-
HCM Lane V/C Ratio	-	-	0.004	0.002	-
HCM Control Delay (s)	-	-	9.7	8.3	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0	0	-

PM Peak Hour

2021 Existing Traffic Conditions



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	4	145	22	23	101	32	6	6	29	10	2	6
Future Volume (vph)	4	145	22	23	101	32	6	6	29	10	2	6
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Adj. Flow (vph)	4	163	25	26	113	36	7	7	33	11	2	7
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	192	0	0	175	0	0	47	0	0	20	0
Sign Control		Free			Free			Stop			Stop	

Intersection Summary
Control Type: Unsignalized

Intersection	
Int Delay, s/veh	2.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	4	145	22	23	101	32	6	6	29	10	2	6
Future Vol, veh/h	4	145	22	23	101	32	6	6	29	10	2	6
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	4	163	25	26	113	36	7	7	33	11	2	7

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	149	0	0	188	0	0	372	385	176	387	379	131
Stage 1	-	-	-	-	-	-	184	184	-	183	183	-
Stage 2	-	-	-	-	-	-	188	201	-	204	196	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1432	-	-	1386	-	-	585	549	867	572	553	919
Stage 1	-	-	-	-	-	-	818	747	-	819	748	-
Stage 2	-	-	-	-	-	-	814	735	-	798	739	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1432	-	-	1386	-	-	568	536	867	535	540	919
Mov Cap-2 Maneuver	-	-	-	-	-	-	568	536	-	535	540	-
Stage 1	-	-	-	-	-	-	816	745	-	817	732	-
Stage 2	-	-	-	-	-	-	789	720	-	759	737	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.2	1.1	10.2	11
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	743	1432	-	-	1386	-	-	622
HCM Lane V/C Ratio	0.062	0.003	-	-	0.019	-	-	0.033
HCM Control Delay (s)	10.2	7.5	0	-	7.6	0	-	11
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.2	0	-	-	0.1	-	-	0.1

2024 Future Year Background Traffic Conditions



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	4	152	23	24	106	34	6	6	30	10	2	6
Future Volume (vph)	4	152	23	24	106	34	6	6	30	10	2	6
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Adj. Flow (vph)	4	171	26	27	119	38	7	7	34	11	2	7
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	201	0	0	184	0	0	48	0	0	20	0
Sign Control		Free			Free			Stop			Stop	

Intersection Summary
Control Type: Unsignalized

Intersection	
Int Delay, s/veh	2.1

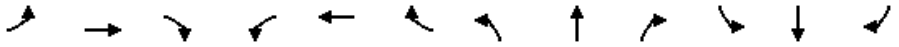
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	4	152	23	24	106	34	6	6	30	10	2	6
Future Vol, veh/h	4	152	23	24	106	34	6	6	30	10	2	6
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	4	171	26	27	119	38	7	7	34	11	2	7

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	157	0	0	197	0	0	389	403	184	405	397	138
Stage 1	-	-	-	-	-	-	192	192	-	192	192	-
Stage 2	-	-	-	-	-	-	197	211	-	213	205	-
Critical Hdwy	4.12	-	-	4.12	-	-	7.12	6.52	6.22	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.218	-	-	3.518	4.018	3.318	3.518	4.018	3.318
Pot Cap-1 Maneuver	1423	-	-	1376	-	-	570	536	858	556	540	910
Stage 1	-	-	-	-	-	-	810	742	-	810	742	-
Stage 2	-	-	-	-	-	-	805	728	-	789	732	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1423	-	-	1376	-	-	553	523	858	519	527	910
Mov Cap-2 Maneuver	-	-	-	-	-	-	553	523	-	519	527	-
Stage 1	-	-	-	-	-	-	808	740	-	808	726	-
Stage 2	-	-	-	-	-	-	779	712	-	749	730	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.2	1.1	10.2	11.1
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	733	1423	-	-	1376	-	-	607
HCM Lane V/C Ratio	0.064	0.003	-	-	0.02	-	-	0.033
HCM Control Delay (s)	10.2	7.5	0	-	7.7	0	-	11.1
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.2	0	-	-	0.1	-	-	0.1

2024 Future Buildout Conditions



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	4	152	25	27	106	34	8	6	33	10	2	6
Future Volume (vph)	4	152	25	27	106	34	8	6	33	10	2	6
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Heavy Vehicles (%)	2%	2%	8%	11%	2%	2%	25%	2%	9%	2%	2%	2%
Adj. Flow (vph)	4	171	28	30	119	38	9	7	37	11	2	7
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	203	0	0	187	0	0	53	0	0	20	0
Sign Control		Free			Free			Stop			Stop	

Intersection Summary

Control Type: Unsignalized

Intersection	
Int Delay, s/veh	2.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	4	152	25	27	106	34	8	6	33	10	2	6
Future Vol, veh/h	4	152	25	27	106	34	8	6	33	10	2	6
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	89	89	89	89	89	89	89	89	89	89	89	89
Heavy Vehicles, %	2	2	8	11	2	2	25	2	9	2	2	2
Mvmt Flow	4	171	28	30	119	38	9	7	37	11	2	7

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	157	0	0	199	0	0	396	410	185	413	405	138
Stage 1	-	-	-	-	-	-	193	193	-	198	198	-
Stage 2	-	-	-	-	-	-	203	217	-	215	207	-
Critical Hdwy	4.12	-	-	4.21	-	-	7.35	6.52	6.29	7.12	6.52	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.35	5.52	-	6.12	5.52	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.35	5.52	-	6.12	5.52	-
Follow-up Hdwy	2.218	-	-	2.299	-	-	3.725	4.018	3.381	3.518	4.018	3.318
Pot Cap-1 Maneuver	1423	-	-	1321	-	-	525	531	840	549	535	910
Stage 1	-	-	-	-	-	-	759	741	-	804	737	-
Stage 2	-	-	-	-	-	-	749	723	-	787	731	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1423	-	-	1321	-	-	508	516	840	508	520	910
Mov Cap-2 Maneuver	-	-	-	-	-	-	508	516	-	508	520	-
Stage 1	-	-	-	-	-	-	757	739	-	802	719	-
Stage 2	-	-	-	-	-	-	723	705	-	743	729	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.2	1.3	10.5	11.2
HCM LOS			B	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	705	1423	-	-	1321	-	-	598
HCM Lane V/C Ratio	0.075	0.003	-	-	0.023	-	-	0.034
HCM Control Delay (s)	10.5	7.5	0	-	7.8	0	-	11.2
HCM Lane LOS	B	A	A	-	A	A	-	B
HCM 95th %tile Q(veh)	0.2	0	-	-	0.1	-	-	0.1



Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	2	3	43	2	3	26
Future Volume (vph)	2	3	43	2	3	26
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89
Heavy Vehicles (%)	100%	100%	2%	100%	100%	2%
Adj. Flow (vph)	2	3	48	2	3	29
Shared Lane Traffic (%)						
Lane Group Flow (vph)	5	0	50	0	0	32
Sign Control	Stop		Free			Free

Intersection Summary
Control Type: Unsignalized

Intersection	
Int Delay, s/veh	0.9

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	2	3	43	2	3	26
Future Vol, veh/h	2	3	43	2	3	26
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	100	100	2	100	100	2
Mvmt Flow	2	3	48	2	3	29

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	84	49	0	0	50	0
Stage 1	49	-	-	-	-	-
Stage 2	35	-	-	-	-	-
Critical Hdwy	7.4	7.2	-	-	5.1	-
Critical Hdwy Stg 1	6.4	-	-	-	-	-
Critical Hdwy Stg 2	6.4	-	-	-	-	-
Follow-up Hdwy	4.4	4.2	-	-	3.1	-
Pot Cap-1 Maneuver	724	800	-	-	1105	-
Stage 1	773	-	-	-	-	-
Stage 2	785	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	722	800	-	-	1105	-
Mov Cap-2 Maneuver	722	-	-	-	-	-
Stage 1	773	-	-	-	-	-
Stage 2	783	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9.7	0	0.9
HCM LOS	A		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	767	1105	-
HCM Lane V/C Ratio	-	-	0.007	0.003	-
HCM Control Delay (s)	-	-	9.7	8.3	0
HCM Lane LOS	-	-	A	A	A
HCM 95th %tile Q(veh)	-	-	0	0	-

APPENDIX F:
NCHRP Report 457 Output

NCHRP 457 - Graham Rd Copenhaver Rd
Southbound Left-Turn Lane
AM Peak Hour

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

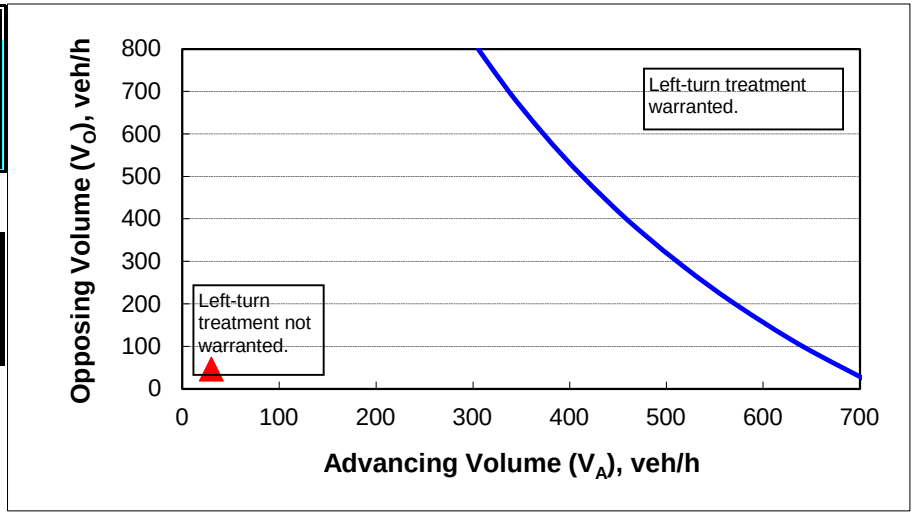
2-lane roadway (English)

INPUT

Variable	Value
85th percentile speed, mph:	35
Percent of left-turns in advancing volume (V_A), %:	7%
Advancing volume (V_A), veh/h:	30
Opposing volume (V_O), veh/h:	46

OUTPUT

Variable	Value
Limiting advancing volume (V_A), veh/h:	684
Guidance for determining the need for a major-road left-turn bay:	
Left-turn treatment NOT warranted.	



CALIBRATION CONSTANTS

Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

NCHRP 457 - Graham Rd Copenhaver Rd
Southbound Left-Turn Lane
PM Peak Hour

Figure 2 - 5. Guideline for determining the need for a major-road left-turn bay at a two-way stop-controlled intersection.

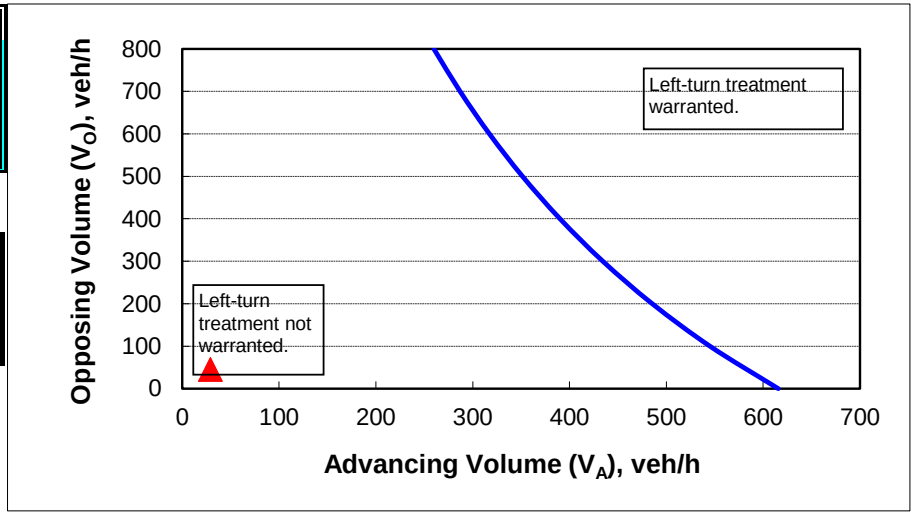
2-lane roadway (English)

INPUT

Variable	Value
85th percentile speed, mph:	35
Percent of left-turns in advancing volume (V_A), %:	10%
Advancing volume (V_A), veh/h:	29
Opposing volume (V_O), veh/h:	45

OUTPUT

Variable	Value
Limiting advancing volume (V_A), veh/h:	582
Guidance for determining the need for a major-road left-turn bay:	
Left-turn treatment NOT warranted.	



CALIBRATION CONSTANTS

Variable	Value
Average time for making left-turn, s:	3.0
Critical headway, s:	5.0
Average time for left-turn vehicle to clear the advancing lane, s:	1.9

NCHRP 457 - Copenhaver Road Project Driveway
Northbound Right-Turn Lane
AM Peak Hour

Figure 2 - 6. Guideline for determining the need for a major-road right-turn bay at a two-way stop-controlled intersection.

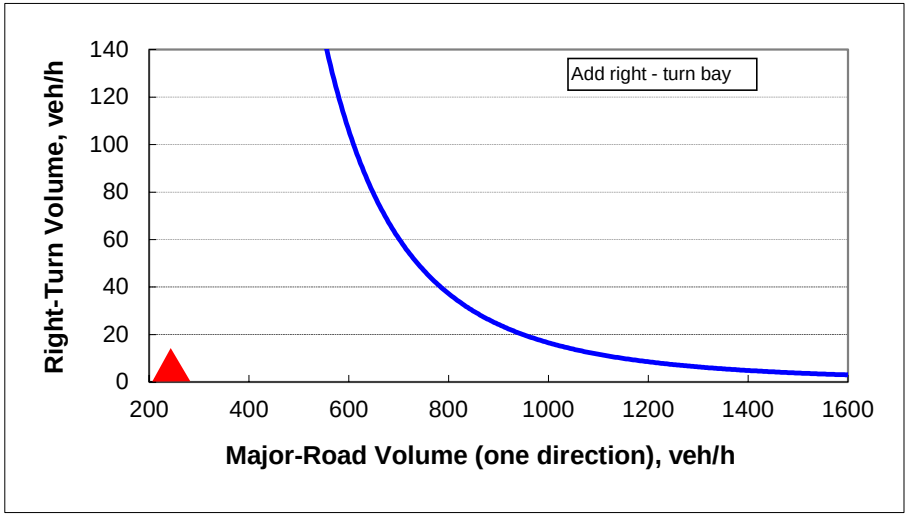
INPUT

Roadway geometry:	2-lane roadway

Variable	Value
Major-road speed, mph:	35
Major-road volume (one direction), veh/h:	45
Right-turn volume, veh/h:	1

OUTPUT

Variable	Value
Limiting right-turn volume, veh/h:	1304659
Guidance for determining the need for a major-road right-turn bay for a 2-lane roadway:	
Do NOT add right-turn bay.	



NCHRP 457 - Copenhaver Road Project Driveway
Northbound Right-Turn Lane
PM Peak Hour

Figure 2 - 6. Guideline for determining the need for a major-road right-turn bay at a two-way stop-controlled intersection.

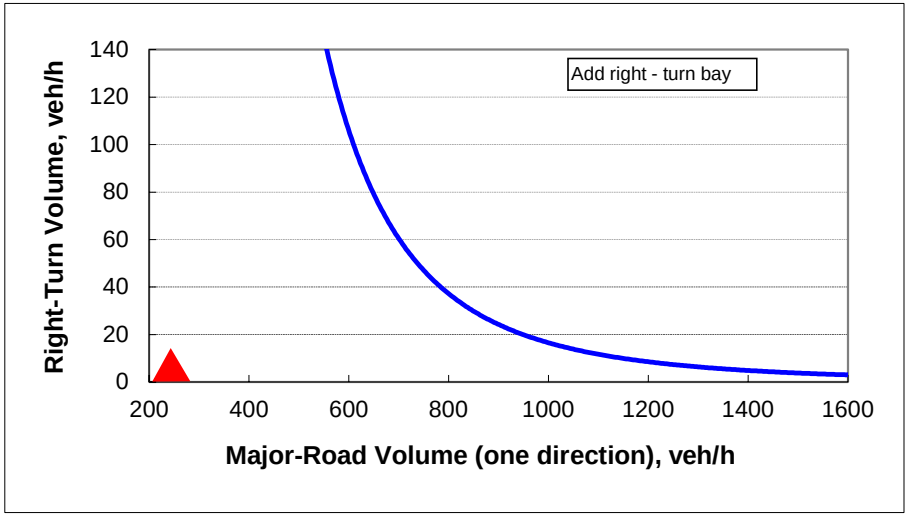
INPUT

Roadway geometry:	2-lane roadway

Variable	Value
Major-road speed, mph:	35
Major-road volume (one direction), veh/h:	43
Right-turn volume, veh/h:	2

OUTPUT

Variable	Value
Limiting right-turn volume, veh/h:	1539188
Guidance for determining the need for a major-road right-turn bay for a 2-lane roadway:	
Do NOT add right-turn bay.	



Fort Pierce RV Storage
CONCEPTUAL Drainage Report
Fort Pierce, FL
Drainage Report
KHA No: 147814000

Prepared For:
SFWMD
NSLWCD
City of Fort Pierce

Prepared By:
Kimley-Horn and Associates, Inc.
445 24st Street, Suite 200
Vero Beach, Florida 32960

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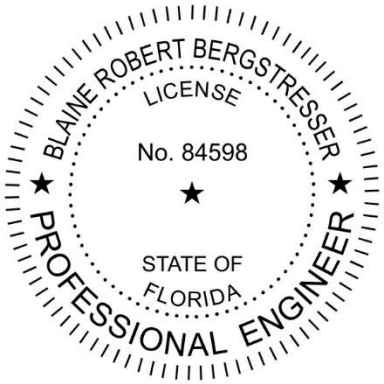
Kimley-Horn Project #: 147814000

FORT PIERCE RV STORAGE
FORT PIERCE, FL
DRAINAGE SUMMARY

Prepared For:
SFWMD
NSLWCD
City of Fort Pierce

Prepared By:
Kimley-Horn and Associates, Inc.
445 24st Street, Suite 200
Vero Beach, Florida 32962

This item has been digitally signed and sealed by Blaine Bergstresser, P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



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A. VICINITY MAPS

- General Location Map
- NRCS Soil Resource Report
- FEMA F.I.R.M.
- SFWMD Rainfall Maps

B. PRE-DEVELOPMENT CALCULATIONS

- Curve Number Calculations
- Time of Concentration Calculations
- Runoff Calculations
- Stage Storage Calculations
- Water Quality and Treatment Volume

C. POST-DEVELOPMENT CALCULATIONS

- Estimated Curve Number Calculations
- Estimated Runoff Calculations

D. SUPPORTING DOCUMENTATION

- Existing SFWMD ERP #56-100483-P

Kimley»Horn

FORT PIERCE RV STORAGE
Drainage Summary

INTRODUCTION

The drainage report is prepared to present the design of the storm water management system to serve the proposed Fort Pierce RV Storage project in Fort Pierce, FL.

The subject site consists of 756,855 square feet (approx. 17.38 acres) of undeveloped land. The site was originally used as pastureland for cattle, now the site contains agricultural pastures and woodlands. The proposed development consists of approximately 503 total RV storage spaces and 3.03 acres of proposed tree protection area at the Northwest corner of the site.

All elevations shown herein are shown in NAVD 88 unless otherwise noted.

SITE LOCATION

The general location of the proposed project site in Section 13, Township 35 South, Range 39 East in the City of Fort Pierce, St. Lucie County, Florida. The site is located at the corner of Peters Road and Graham Road to the west of Interstate 95. See **Appendix A** for General Location Map.

EXISTING SITE DESCRIPTION

A. EXISTING SITE AREA SUMMARY

The subject site consists of 756,855 square feet (approx. 17.38 acres) of undeveloped land that contains woodlands and agricultural pastures.

Below is the summary of the pre-development impervious and pervious areas:

Table 1:

Pre-Development Site:	**Onsite**
Pavement	0.00 ac
Total Impervious area (A)	**0.00 ac**
Pervious Area	17.38 ac
Total Pervious area (B)	**17.38 ac**
Total Site Area (A + B)	**17.38 ac**
% Total Impervious	**0.00%**
% Pervious	**100.00%**

B. TOPOGRAPHY

Survey data shows average existing site grades range from approximately +/- 13.0 ft to +/- 18.0 ft. with an average existing site grade of approximately +/- 14.0 ft. The sight slopes south with the high points on site being located to the north by the existing wooded area. There is a an existing swale located in the center of the site approximately

100 feet south of the wooded area border that runs south through the property and into the bordering canal (NSLRWCD Canal No. 37).

C. EXISTING LAND USE

The total land area of the project is +/- 17.38 acres and the vacant land consists of undeveloped gently sloping woodlands and agricultural pastures.

D. SOILS

The Soil Survey for this site located within Fort Pierce, Florida, as prepared by the United States Department of Agriculture (USDA), Natural Resource Conversation Service (NRCS), indicates the near surface soils consist of the following soils. Andreyev Engineering, Inc. (AEI) performed a geotechnical engineering investigation for the proposed site. See **Appendix G** for geotechnical report.

- Chobee Loamy Sand (#11) – Hydrologic Group C/D
- Wabasso Sand (#48) – Hydrologic Group C/D
- Winder Loamy Sand (#55) – Hydrologic Group C/D

E. EXISTING DRAINAGE PATTERN

The undeveloped site has one distinct drainage pattern, a large swale in the center of the site. The onsite runoff and discharge are collected via the onsite swale and ultimately discharged into the bordering NSLRWCD Canal No. 37. There is also a portion of the western portion of the site that discharges into the surrounding offsite swales along Peters Road, but these onsite swales ultimately discharge into the canal as well. Please refer to **Appendix C** for the Basin Map.

F. CURVE NUMBER

The site primarily contains Hydrologic Type “C/D” soil. A CN value of 80 was assumed for pervious areas and a CN value of 98 was assumed for impervious areas. Weighted CN values were calculated for each drainage basin as shown in Table 2 below. The CN calculations for the pre-development conditions can be found in **Appendix B**

G. TIME OF CONCENTRATION

The time of concentration (Tc) for the onsite basin was determined using the TR-55 method. A maximum sheet flow of 300 feet and shallow concentrated flow were calculated to determine the times as shown in Table 2 below. The Tc calculations for the pre-development conditions can be found in **Appendix B**.

Table 3:

Pre-Development Site:	Basin Area (ac)	Tc (min)	CN
Onsite	17.448	70.18	80

H. FLOOD PLAIN COMPENSATION

The site is in Flood Zone X per FEMA. Flood Zone X states that the area was determined to be outside the 0.2% annual chance floodplain.

PROPOSED SITE DESCRIPTION

A. PROPOSED SITE AREA SUMMARY

The proposed site shall consist of a 503 RV storage spaces with canopies, a small office building, a fenced tree protection area, one dry detention pond and one wet detention pond. The stormwater design implemented for the site shall consist of a dry pond located along the eastern border that collects the stormwater from the site and channels it into the southern wet detention pond. The wet detention pond will consist of approximately 3.52 acres and will contain a control structure to limit discharge into the bordering NSLRWCD Canal 37.

The post-development discharge rates for the proposed site will not exceed more than 2.0 inches of depth over the area served for any 24-hour period from the 10-year frequency, 72-hour duration rainfall event. For the proposed site, this comes out to 7.65 ac-ft in any 24-hour period. The criteria for the limited discharge rates was based on the drainage connection requirements set forth by North St. Lucie River Water Canal District.

Below are the estimates of the post-development impervious and pervious areas:

Table 4:

Post-Development Site:	**Onsite Basin**
Pavement	9.51 ac
Building	0.02 ac
Water Surface (Top of Bank)	3.615 ac
Total Impervious Area (A)	**13.145 ac**
Pervious Area	4.30 ac
Total Pervious Area (B)	**4.30 ac**
Total Site Area (A+B)	**17.45 ac**
% Total Impervious	**75.34%**
% Pervious	**24.66%**

B. POST DEVELOPMENT BASINS

The post development site can be described as having one distinct drainage basin. The existing basin pattern is consistent with the proposed post development drainage basin pattern, where the onsite runoff will discharge into the dry/wet ponds before ultimately discharging into the adjacent NSLRWCD Canal 37.

C. CURVE NUMBER

The post-development consists of a "full buildout" of the site. A CN value of 98 was used for all impervious area. A CN value of 80 was used for all pervious area. Please see attached CN calculations in **Appendix D**.

D. TIME OF CONCENTRATION

Time of concentration (Tc) for the onsite area was determined using the TR-55 method. A maximum sheet flow of 300 feet and shallow concentrated flow were calculated to determine the times as shown in Table 4 below. The Tc value was less than the minimum allowable Tc, therefore a Tc value of 10 minutes was used for the onsite and offsite roadway. Please see attached Tc calculations in **Appendix D**.

E. REQUIRED TREATMENT VOLUME (TV)

The proposed system is to provide sufficient water quality treatment per the City of Fort Pierce and SFWMD ERP criteria. The proposed stormwater design is to provide storage for the greater of 1 inch of runoff for the total drainage area or 2.5 inches for the total impervious area. This was determined to be 2.511 ac-ft for the onsite basin based on an overall site basin area of 17.45 acres with an estimated 69% impervious area.

Per SFWMD OFW criteria, the design water quality retention volume is to be 150% of the required treatment volume, which gives the proposed site a total required treatment volume of 3.767 ac-ft for the onsite basin.

The site is also required to provide 0.50 inches of dry pre-treatment over the site area for commercial development per SFWMD. Based on a total site area of 17.45 acres and estimated wet pond area of 3.52 acres, 0.57 acres of dry pre-treatment will be required for the site.

Table 6:

Post-Development:	Required TV	150% of TV (OFW)
Onsite	2.511 ac-ft	3.767 ac-ft

F. DISCHARGE RATES

The post-development discharge rates for the proposed site will not exceed more than 2.0 inches of depth over the area served for any 24-hour period from the 10-year frequency, 72-hour duration rainfall. For the proposed site, this comes out to 7.65 acft in any 24-hour period. This limited discharge criteria are based on the drainage connection

requirements set forth by North St. Lucie River Water Canal District and is what the closest permitted existing site was approved at.

G. NSLWCD REQUIREMENTS

The project site discharges to a NSLRWCD canal that ultimately contributes drainage to the North Fork of the St. Lucie River. The North Fork is a verified impaired waterbody for nutrients. As such, the system will be required to demonstrate that the average annual nutrient load in the post-development will not exceed that of the pre-development condition.

The proposed system will be designed to meet the treatment and attenuation design criteria for the South Florida Water Management District (SFWMD), the North St. Lucie River Water Control District (NSLRWCD), and the City of Fort Pierce. This includes an additional 50% water quality and net improvement provisions for sites with discharge to the South Fork of the St Lucie River Basin (verified impaired).

CONCLUSION

Post-development offsite discharge rates are limited by the NSLRWCD criteria of 2.0 inches of depth over the area served for any 24-hour period from the 10 year-72-hour storm event for allowable discharge in to the bordering NSLRWCD Canal 37. A limited discharge rate of 7.65 ac-ft is required for a 17.38-acre site.

The proposed development is to provide sufficient water quality treatment in accordance with all requirements set forth by City of Fort Pierce, North St. Lucie River Water Control District, and South Florida Water Management District. The total required treatment volume is to be an estimated 3.767 ac-ft for the overall onsite basin, with 0.57 acres of the required pre-treatment being dry pre-treatment.

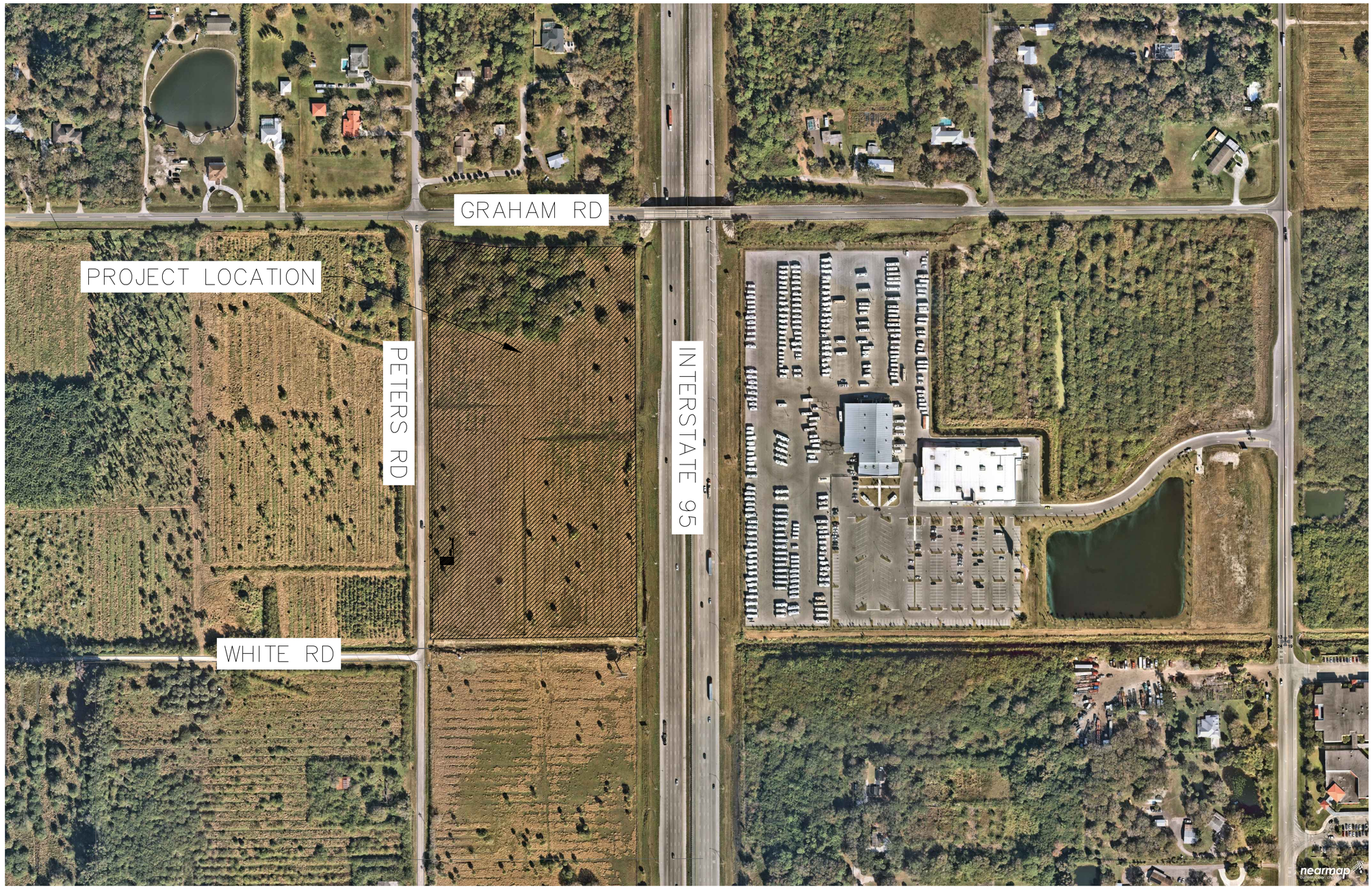
The proposed development is designed to maintain and improve the currently existing pre-development drainage pattern and will have an ultimate outfall to NSLRWCD Canal 37. All drainage design is to be in accordance with the requirements set forth by NSLRWCD, SFWMD, and the City of Fort Pierce.

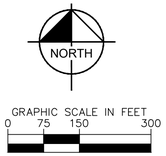
APPENDICES

APPENDIX A

VICINITY MAPS

Location Map





OWNER
R V DEVELOPMENT, LLC
547 WASH ROBERTS LANE
MC MINNVILLE, TN, 37110

DEVELOPER
BEN LOKHORST
MACRITCHIE STORAGE VENTURES, LLC
715 5TH AVENUE, SW, SUITE 1700
CALGARY AB T2P 2X6
PHONE: 403-973-4882

FLOOD ZONE
PROPERTY LIES WITHIN FLOOD ZONE "X", ACCORDING TO THE F.I.R.M. MAP NO. 12111C0167J, DATE 02/16/2012.

LEGAL DESCRIPTION
THAT PORTION OF THE WEST 1/2 OF THE SW 1/4 OF THE SE 1/4 , LYING WEST OF THE WESTERLY RIGHT OF WAY LINE OF I-95, OF SECTION 13, TOWNSHIP 35 SOUTH, RANGE 39 EAST, LYING AND BEING IN ST. LUCIE COUNTY, FLORIDA, LESS AND EXCEPT ROAD RIGHTS OF WAY FOR I-95; GRAHAM ROAD; COPENHAVER ROAD AND LESS CANAL RIGHTS OF WAY FOR NSLRDD CANAL NO. 37 ON SOUTH LINE

CONTAINING 17.45 ACRES ACRES, MORE OR LESS.

No.	REVISIONS	DATE	BY

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY BLAINE BERGSTRESSER, P.E. ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

Kimley»Horn
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445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
PHONE: 772-794-4100
WWW.KIMLEY-HORN.COM CA 00000696

LICENSED PROFESSIONAL ENGINEER
BLAINE ROBERT BERGSTRESSER
LICENSE No. 84598
STATE OF FLORIDA
DATE: 02/25/2021

KHA PROJECT 147814000
DATE 02/25/2021
SCALE AS SHOWN
DESIGNED BY BRB
DRAWN BY TJE
CHECKED BY BRB

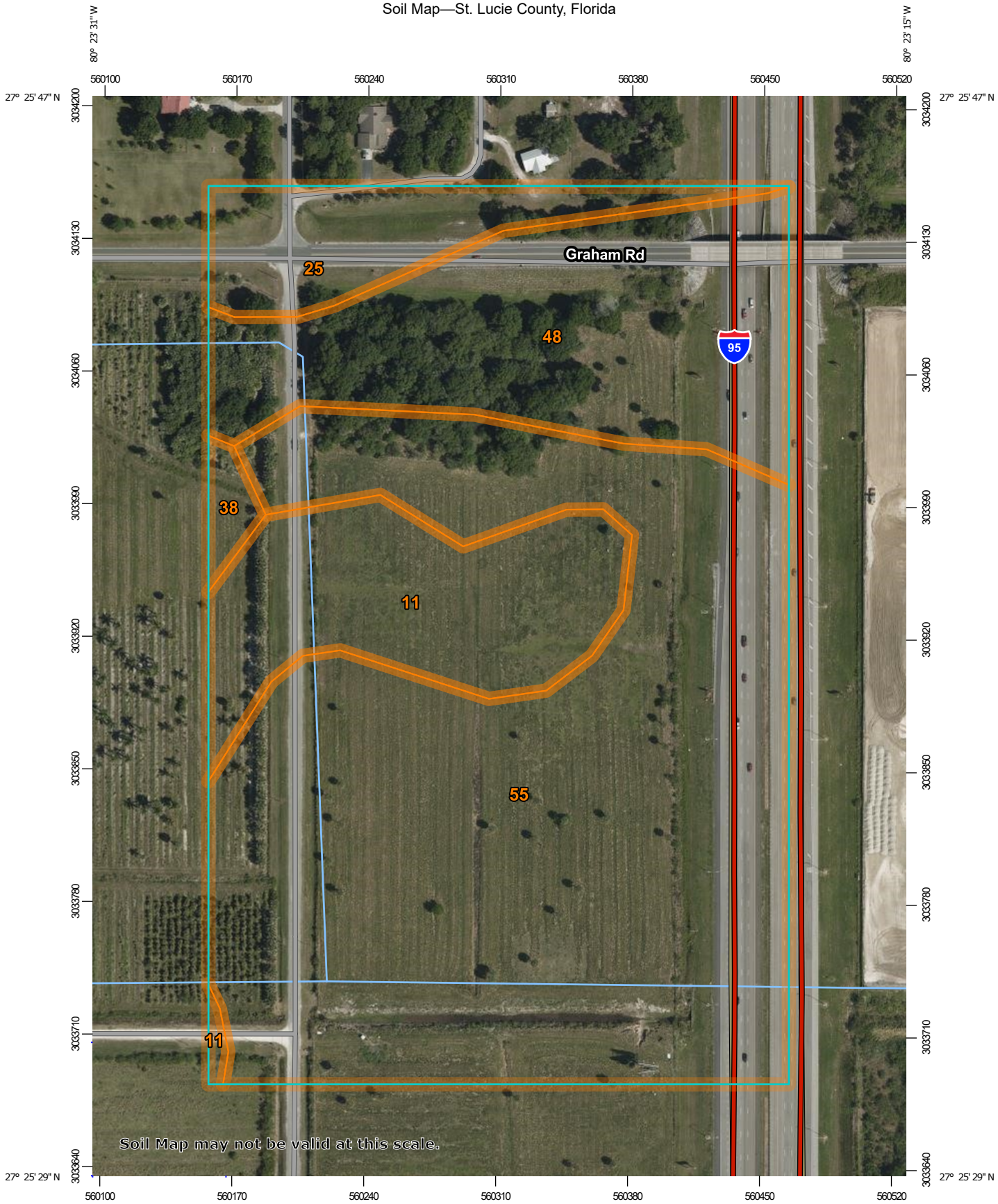
LOCATION MAP

FORT PIERCE RV
PREPARED FOR
MACRITCHIE, INC
FORT PIERCE FLORIDA

SHEET NUMBER
EX-01

Plotted By:Enright, Tyler Sheet Set:Kha Layout:Layout1 April 06, 2021 11:08:22am K:\VRB_LDEV\147814000 - Ft Pierce RV Storage\CAD\Exhibits\LOCATION MAP EXHIBIT.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

NRCS Soil Resource Report for Fort Pierce, Florida



Map Scale: 1:2,780 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 40 80 160 240

Feet: 0 100 200 400 600

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: St. Lucie County, Florida
Survey Area Data: Version 14, Jun 9, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 6, 2019—Mar 23, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

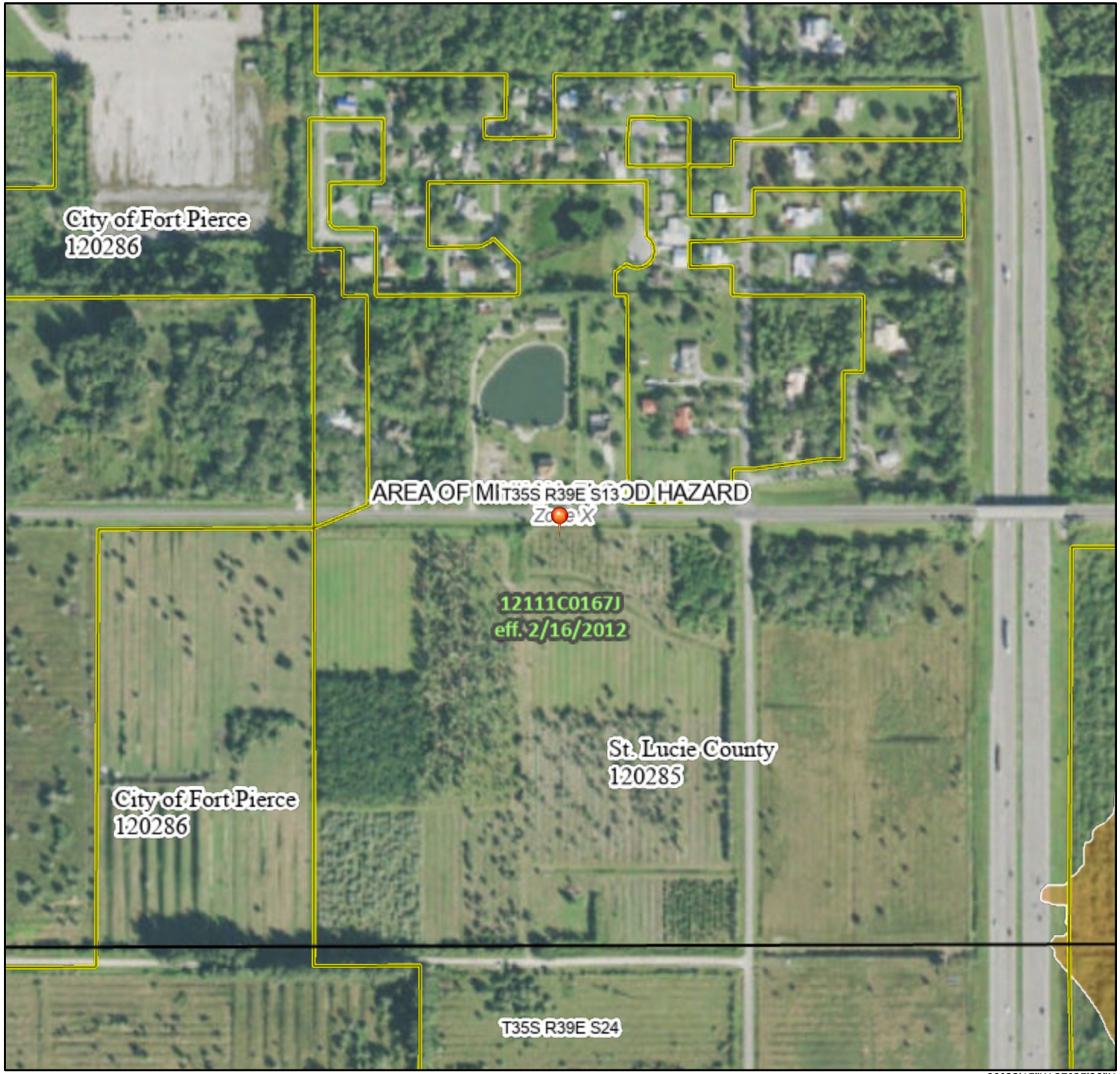
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
11	Chobee loamy sand, frequently ponded, 0 to 1 percent slopes	4.7	13.0%
25	Nettles and Oldsmar sands	2.6	7.1%
38	Riviera fine sand, 0 to 2 percent slopes	0.4	1.0%
48	Wabasso sand, 0 to 2 percent slopes	7.3	20.2%
55	Winder loamy sand	21.3	58.7%
Totals for Area of Interest		**36.2**	**100.0%**

FEMA Floodplain Maps

National Flood Hazard Layer FIRMette

FEMA

80°23'52"W 27°26'N



80°23'15"W 27°25'28"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/4/2021 at 8:35 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations (BFEs) shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Transverse Mercator State Plane Florida East FIPS 0901. The **horizontal datum** was NAD83 HARN, GRS1980 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov/ or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713-3242** or visit its website at http://www.ngs.noaa.gov/.

Base map information shown on this FIRM was provided in digital format by St. Lucie County and the Florida Geographic Data Library.

This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

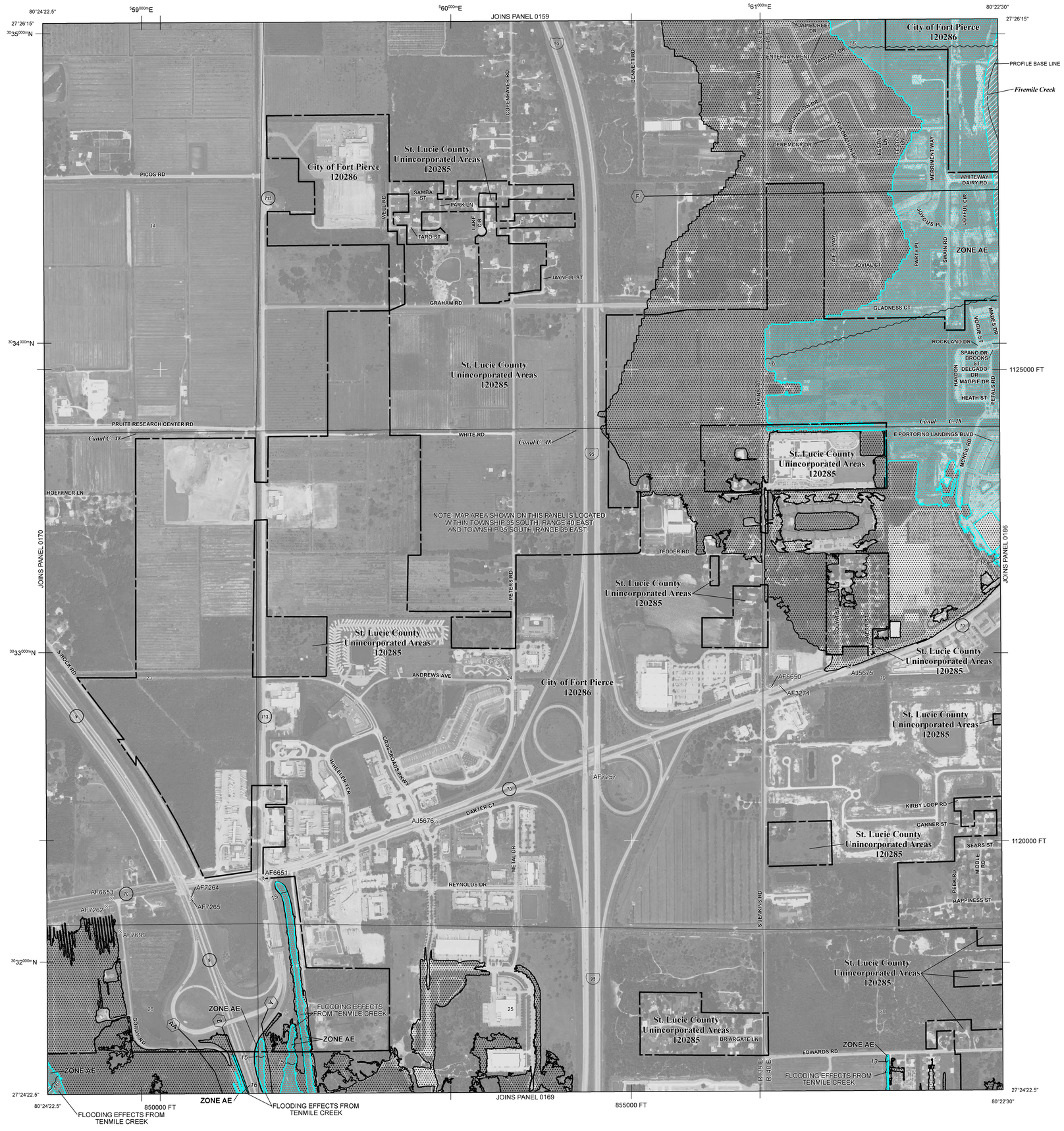
Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the **FEMA Map Information eXchange (FMIX)** at 1-877-336-2627 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FMIX may also be reached at its website at http://msc.fema.gov/.

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1-877-FEMA MAP** (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/nfip/.

The **"profile base lines"** depicted on this map represent the hydraulic modeling baselines that match the flood profiles in the FIS report. As a result of improved topographic data, the "profile base line", in some cases, may deviate significantly from the channel centerline or appear outside the SFHA.



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A No Base Flood Elevations determined.

ZONE AE Base Flood Elevations determined.

ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

ZONE AR Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

ZONE A99 Areas to be protected from 1% annual chance flood event by a Federal flood protection system under construction; no Base Flood Elevations determined.

ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths, or flood velocities
- 513 — Base Flood Elevation line and value; elevation in feet*
- (EL 987) — Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988

- A — A — Cross section line
- 23 — 23 — Transect line
- 97°07'30", 32°22'30" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
- 4275000mE — 1000-meter Universal Transverse Mercator grid ticks, zone 17
- 6000000 FT — 5000-foot grid values: Florida State Plane coordinate system, East Zone (FIPSZONE = 0901), Transverse Mercator projection
- DX5510 — Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 — River Mile

MAP REPOSITORIES
Refer to Map Repositories List on Map Index

EFFECTIVE DATE OF COUNTYWIDE
FLOOD INSURANCE RATE MAP
August 19, 1991

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
November 4, 1992

June 30, 1999

February 16, 2012 - to update corporate limits, to add Base Flood Elevations, to add Special Flood Hazard Areas, to change Special Flood Hazard Areas, to add roads and road names, to update the effects of wave action, and to incorporate previously issued Letters of Map Revision.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 500'

250 0 250 500 750 1,000 FEET
150 0 150 300 METERS

NFIP
NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0167J

FIRM

FLOOD INSURANCE RATE MAP

ST. LUCIE COUNTY, FLORIDA AND INCORPORATED AREAS

PANEL 167 OF 420

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
FORT PIERCE, CITY OF	120286	0167	J
ST. LUCIE COUNTY	120285	0167	J

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
12111C0167J

MAP REVISED
FEBRUARY 16, 2012

Federal Emergency Management Agency

SFWMD Rainfall Maps

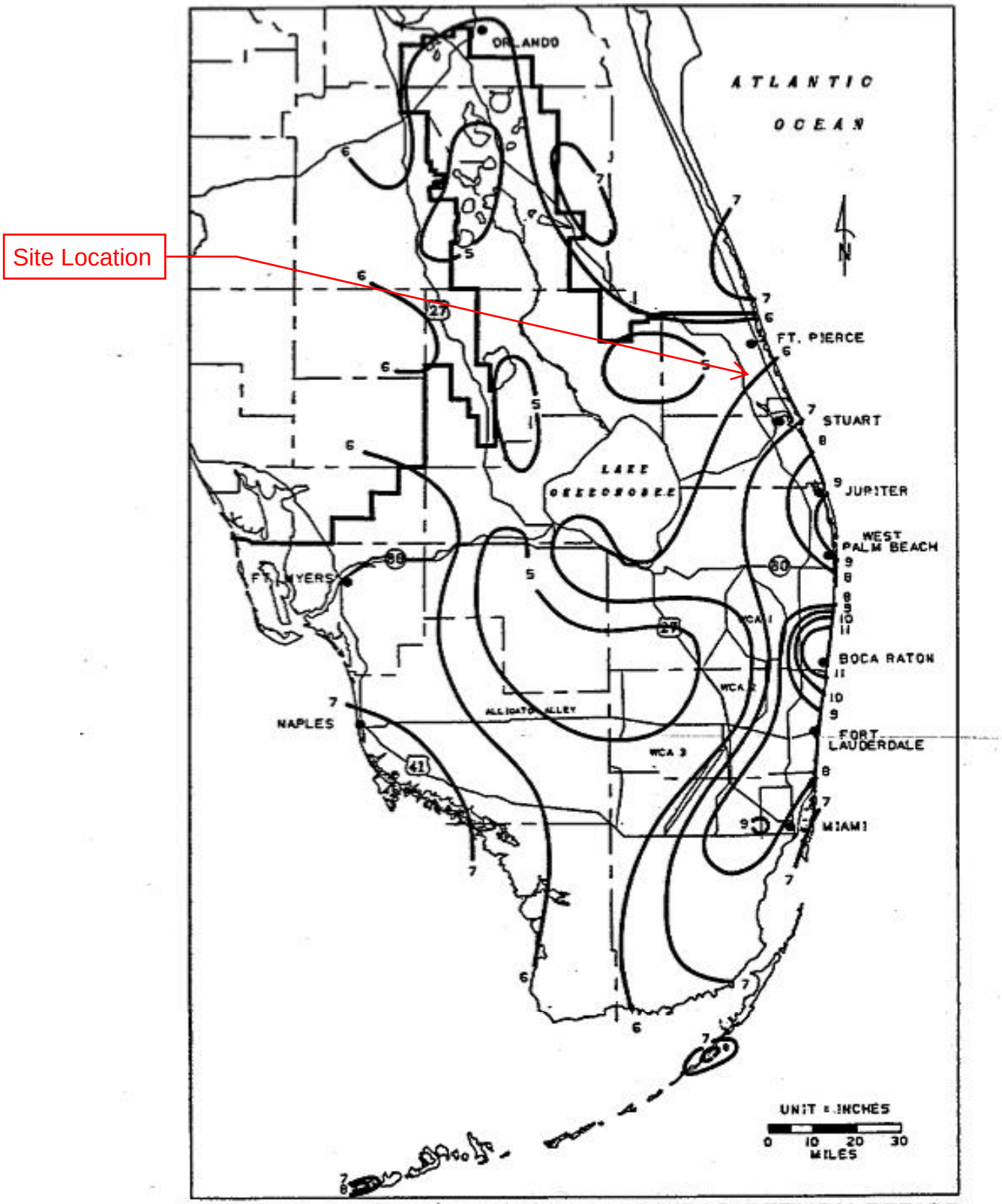


FIGURE C-4. 1-DAY RAINFALL: 10-YEAR RETURN PERIOD

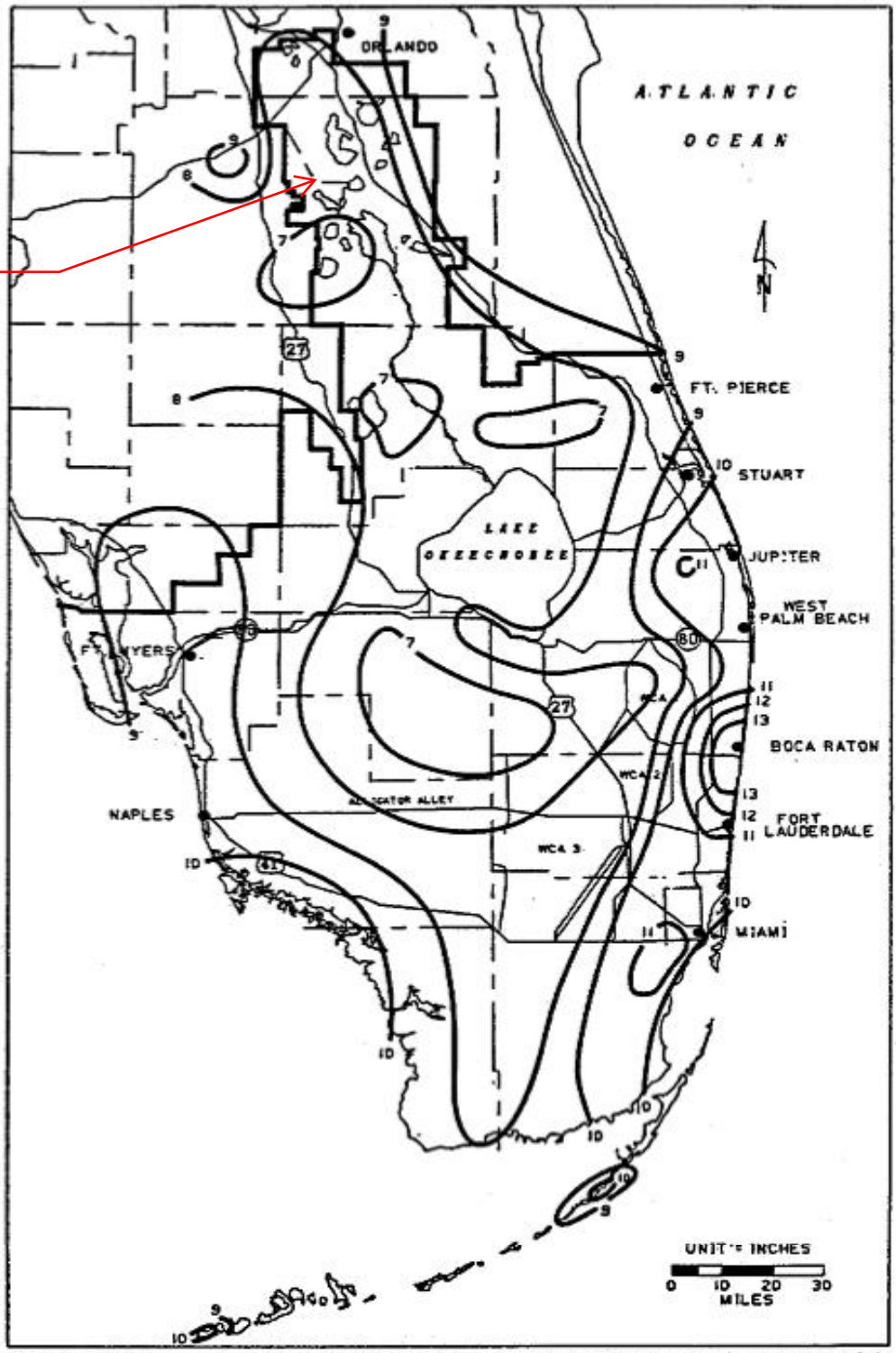


FIGURE C-7. 3-DAY RAINFALL: 10-YEAR RETURN PERIOD

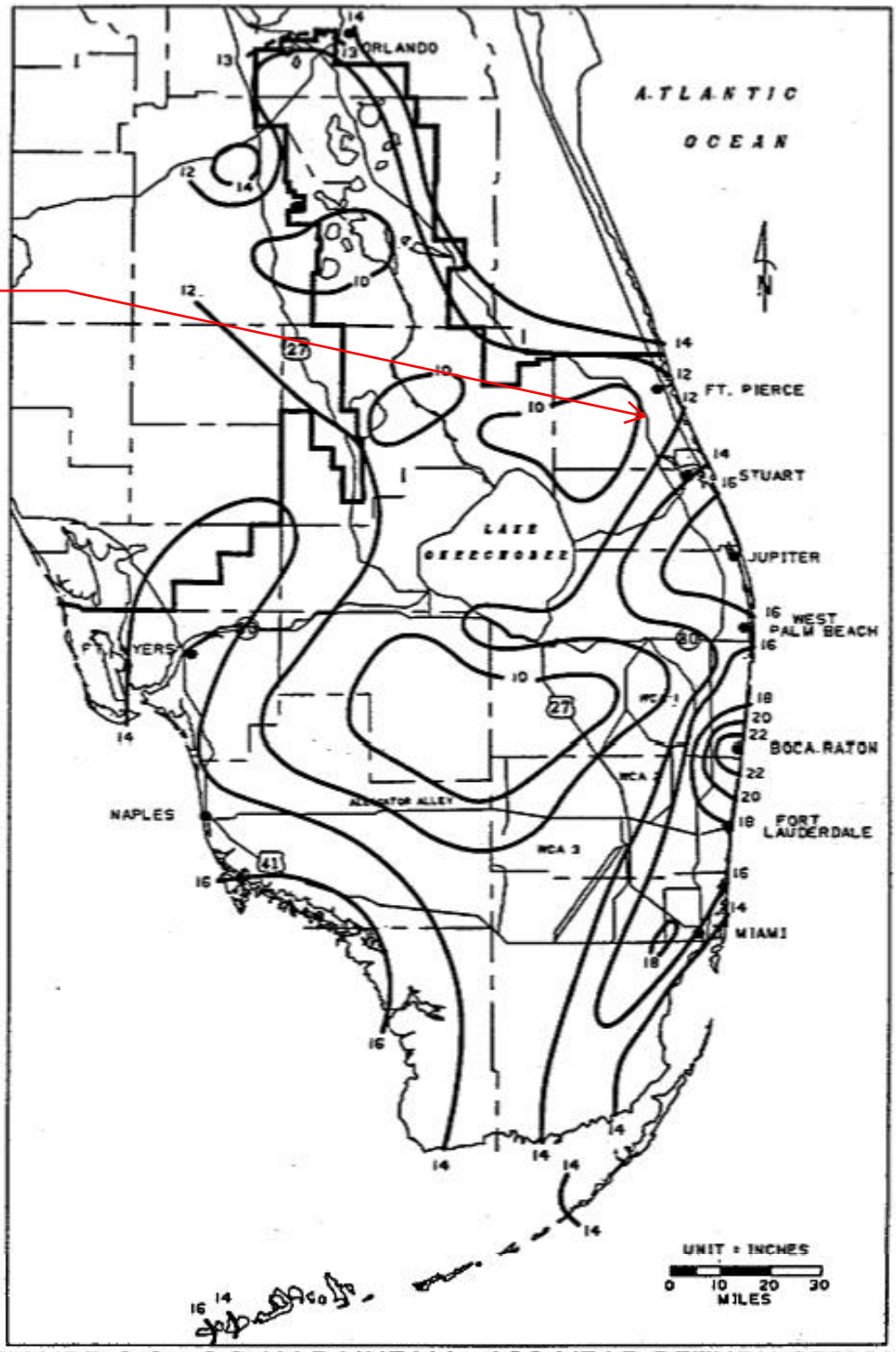


FIGURE C-9. 3-DAY RAINFALL: 100-YEAR RETURN PERIOD

APPENDIX B

Pre-Development Calculations

Pre-Development

Curve Number Calculations

Pre-Development Curve Number
TR-55 Methodology - Pre-Conditions

Pre-Development
Curve Number

Project Name: Fort Pierce RV Storage
Calculated By: TJE
Calculated Date: 4/6/2021

Basin Name: Undeveloped Onsite

Site	Description	Area (SF)	Area (AC)	% of Total	Surface	CN	CN x
	Impervious						
Undeveloped Onsite	Pavement	0	0.00	0.00%		98	0.00
	Building	0	0.00	0.00%		98	0.00
		0	0.00	0.00%		98	0.00
	Water Surface (Top of Bank)		0.00	0.00%		98	0.00
	Impervious Total =	*0*	*0.00*				
	Pervious						
	Group (D)	756,855	17.38	100.00%	Open, Good	80	80.00
	Total Basin Area =	***756,855***	***17.38***	***100.00%***	***CN =***	***80.00***	

Pre-Development

Time of Concentration Calculations

Pre-Development

Time of Concentration

Project Name: **Fort Pierce RV Storage**
Computed by: TJE
Date: 4/6/2021

Basin: **Onsite**

	Segment ID		
Sheet Flow	1	-	
1. Surface Description (Table 3-1)	Unpaved	-	TR-55
2. Manning's roughness coeff., n (Table 3-1)	0.4	-	TR-55
3. Flow Length, L (total <= 300 ft) (feet)	300	-	
4. 2-year 24-hour rainfall, P_2 (inches)	4.80	-	FDOT Fig. 5-13
5. Land slope, s (ft/ft)	0.0067	-	**Sub-total**
6. Tt =(0.007 * (nL)^0.8)/((P_2^0.5)*(s^0.4)) (hr)	1.09	-	1.09

	Segment ID		
Shallow Concentrated Flow	2	-	
7. Surface description (paved or unpaved)	unpaved	-	
8. Flow length, L (feet)	200	-	
9. Watercourse slope, s (ft/ft)	0.010	-	
10. Average velocity, V (TR-55 figure 3-1) (ft/s)	1.61	-	**Sub-total**
11. Tt = (L/(3600*V) (hr)	0.03	-	0.03

	Segment ID		
Channel Flow	3	-	
12. Cross section flow area, a (ft^2)	15.9	-	
13. Wetted perimeter, Pw (ft)	16.4	-	
14. Hydraulic radius, r = a/Pw (ft)	0.97	-	
15. Channel slope, s (ft/ft)	0.001	-	
16. Manning/s roughness coeff., n	0.013	-	
17. V = (1.49*($r^{2/3}$)*($s^{1/2}$))/n (ft/s)	2.94	-	
18. Flow length, L (ft)	480	-	**Sub-total**
19. Tt = (L/3600*V) (hr)	0.045	-	0.05

Total	**Total**	
20. Total Tc (hr)	1.17	hrs
21. Total Tc (min)	70.18	mins

Notes:

1. Methodology used in calculating Time of Concentration is as specified in US Department of Agriculture Technical Release 55, June 1986

Pre-Development

Runoff Calculations

Pre-Development

Runoff Volume Calculator

Based on the Soil Conservation Service Technical Release 55
***Urban Hydrology for Small Watersheds*, June 1986**

Project Name: Fort Pierce RV Storage
Calculated By: TJE
Calculated 4/6/2021

10 Year 24 Hour - Minimum Parking Lot Design Storm Event
10 Year 72 Hour - Allowable Discharge Design Storm Event
25 Year 72 Hour - Perimeter Berm Design Storm Event
100 Year 72 Hour - Finished Floor Elevation Design Storm Event

[Eq. 2-4] $S = \frac{1000}{CN} - 10$

[Eq. 2-3] $Q = \frac{(P - 0.2S)^2}{(P + 0.8S)}$

SFWMD

10 Year 24 Hour

INPUT:					
	P = Rainfall Depth:	6.00	inches		
	CN = Curve Number:	80.00			
	A = Basin Area:	17.38	acres		
	S = Potential Maximum Retention After Runoff Begins:	2.50			
	Q = Runoff:	3.78	inches =	0.32	feet
OUTPUT:					
	V = Runoff Volume:	***5.47***	***acre-feet***		

10 Year 72 Hour

INPUT:					
	P = Rainfall Depth:	8.50	inches		
	CN = Curve Number:	80.00			
	A = Basin Area:	17.38	acres		
	S = Potential Maximum Retention After Runoff Begins:	2.50			
	Q = Runoff:	6.10	inches =	0.51	feet
OUTPUT:					
	V = Runoff Volume:	***8.83***	***acre-feet***		

25 Year 72 Hour

INPUT:					
	P = Rainfall Depth:	9.50	inches		
	CN = Curve Number:	80.00			
	A = Basin Area:	17.38	acres		
	S = Potential Maximum Retention After Runoff Begins:	2.50			
	Q = Runoff:	7.04	inches =	0.59	feet
OUTPUT:					
	V = Runoff Volume:	***10.20***	***acre-feet***		

100 Year 72 Hour

INPUT:					
	P = Rainfall Depth:	12.23	inches		
	CN = Curve Number:	80.00			
	A = Basin Area:	17.38	acres		
	S = Potential Maximum Retention After Runoff Begins:	2.50			
	Q = Runoff:	9.67	inches =	0.81	feet
OUTPUT:					
	V = Runoff Volume:	***14.00***	***acre-feet***		

Pre-Development

Stage Storage Calculations

Pre-Development

Site Stage Storage Volume

Project Name: Fort Pierce Storage
Calculated By: TJE
Calculated Date 4/6/2021

ALL ELEVATIONS LISTED IN NAVD '88

ONSITE BASIN

Sub-Area	Area at Control Elevation		Total Storage
Low El.	10.00		
High El.	20.00		
Area (ft^2)	756855		
Area (acres)	17.37500		
Stage (NAVD)	Area (sf)	Volume (cf)	(ac-ft)
10.00	0.00	0.00	0.0000
10.20	219.97	79.85	0.0018
10.40	291.09	123.84	0.0028
10.60	372.42	182.06	0.0042
10.80	463.96	256.54	0.0059
11.00	565.71	349.34	0.0080
11.20	678.53	462.48	0.0106
11.40	815.95	598.19	0.0137
11.60	997.01	761.37	0.0175
11.80	1,252.66	960.78	0.0221
12.00	1,589.25	1,211.31	0.0278
12.20	1,969.70	1,529.16	0.0351
12.40	2,385.57	1,923.10	0.0441
12.60	2,864.45	2,400.21	0.0551
12.80	3,667.33	2,973.10	0.0683
13.00	5,099.80	3,706.57	0.0851
13.20	9,771.48	4,726.53	0.1085
13.40	17,249.76	6,680.83	0.1534
13.60	29,098.31	10,130.78	0.2326
13.80	62,373.21	15,950.44	0.3662
14.00	117,929.22	28,425.08	0.6526
14.20	175,501.88	52,010.93	1.1940
14.40	268,553.22	87,111.30	1.9998
14.60	384,963.29	140,821.94	3.2328
14.80	454,455.20	217,814.60	5.0003
15.00	501,314.98	308,705.64	7.0869
15.20	528,555.36	408,968.64	9.3886
15.40	553,468.35	514,679.71	11.8154
15.60	575,885.18	625,373.38	14.3566
15.80	600,627.97	740,550.42	17.0007
16.00	623,872.30	860,676.01	19.7584
16.20	643,721.47	985,450.47	22.6228
16.40	659,480.63	1,114,194.76	25.5784
16.60	670,775.89	1,246,090.89	28.6063
16.80	682,565.04	1,380,246.07	31.6861
17.00	694,590.94	1,516,759.08	34.8200
17.20	705,368.83	1,655,677.27	38.0091
17.40	711,795.93	1,796,751.03	41.2477
17.60	712,599.38	1,939,110.22	44.5158
17.80	712,601.93	2,081,630.09	47.7877
18.00	712,601.94	2,224,150.48	51.0595
18.20	712,601.94	2,366,670.87	54.3313
18.40	712,601.93	2,509,191.25	57.6031
18.60	712,601.94	2,651,711.64	60.8749
18.80	712,601.94	2,794,232.03	64.1467
19.00	712,601.93	2,936,752.42	67.4186
19.20	712,601.94	3,079,272.80	70.6904
19.40	712,601.94	3,221,793.19	73.9622
19.60	712,601.93	3,364,313.58	77.2340
19.80	712,601.94	3,506,833.96	80.5058
20.00	712,601.94	3,649,354.35	83.7776

TOTAL ONSITE

Sub-Area	Total Storage
Low El.	
High El.	
Area (ft^2)	
Area (acres)	
Stage (NAVD)	(ac-ft)
10.00	0.0000
10.20	0.0018
10.40	0.0028
10.60	0.0042
10.80	0.0059
11.00	0.0080
11.20	0.0106
11.40	0.0137
11.60	0.0175
11.80	0.0221
12.00	0.0278
12.20	0.0351
12.40	0.0441
12.60	0.0551
12.80	0.0683
13.00	0.0851
13.20	0.1085
13.40	0.1534
13.60	0.2326
13.80	0.3662
14.00	0.6526
14.20	1.1940
14.40	1.9998
14.60	3.2328
14.80	5.0003
15.00	7.0869
15.20	9.3886
15.40	11.8154
15.60	14.3566
15.80	17.0007
16.00	19.7584
16.20	22.6228
16.40	25.5784
16.60	28.6063
16.80	31.6861
17.00	34.8200
17.20	38.0091
17.40	41.2477
17.60	44.5158
17.80	47.7877
18.00	51.0595
18.20	54.3313
18.40	57.6031
18.60	60.8749
18.80	64.1467
19.00	67.4186
19.20	70.6904
19.40	73.9622
19.60	77.2340
19.80	80.5058
20.00	83.7776

APPENDIX C

Post-Development Calculations

Estimated Post-Development

Curve Number Calculations

Post-Development Curve Number
TR-55 Methodology - Post Conditions

Post-Development

Estimated Curve Number

Project Name: Fort Pierce RV Storage
Calculated By: TJE
Calculated Date: 4/6/2021

Basin Name: Onsite

Site	Description	Area (SF)	Area (AC)	% of Total	Surface	CN	CN x Area(%)
	Impervious						
Developed Onsite	Pavement	411,198	*9.440*	54.33%		98	53.24
	Building	880	*0.020*	0.12%		98	0.11
			0.000				
	Water Surface (Top of Bank)	122,404	*2.810*	16.17%		98	15.85
	Impervious Total =	*534,482*	*12.270*				
	Pervious						
	Group (D)	222,374	5.11	29.38%	Open, Good	80	23.51

Total Area =	***756,855***	***17.38***	***100.00%***	***CN =***	***92.71***

	Area (SF)	Area (AC)	% of Total			
Total Pavement =	***411,198***	9.44	***54.33%***		98	53.24
Total Building =	***880***	0.02	***0.12%***		98	0.11
Total Water Surface =	***122,404***	2.81	***16.17%***		98	15.85
Total Pervious =	***222,374***	5.105	***29.38%***		80	23.51

Total Project Area =	***756,855***	***17.38***	***100.00%***	***CN =***	***92.71***

Estimated Post-Development

Runoff Calculations

Post-Development
Runoff Volume Calculator

Based on the Soil Conservation Service Technical Release 55
***Urban Hydrology for Small Watersheds*, June 1986**

Project Name: Fort Pierce RV Storage
Calculated By: TJE
Calculated 4/6/2021

10 Year 24 Hour - Minimum Parking Lot Design Storm Event
10 Year 72 Hour - Minimum Pond Berm Design Storm Event
- Off-site Discharge Rates Design Storm Event
100 Year 72 Hour - Finished Floor Elevation Design Storm Event

[Eq. 2-4] $S = \frac{1000}{CN} - 10$

[Eq. 2-3] $Q = \frac{(P - 0.2S)^2}{(P + 0.8S)}$

SFWMD

10 Year 24 Hour

INPUT:					
	P = Rainfall Depth:	6.00	inches		
	CN = Curve Number:	95.00			
	A = Basin Area:	19.00	acres		
	S = Potential Maximum Retention After Runoff Begins:	0.53			
	Q = Runoff:	5.41	inches =	0.45	feet
OUTPUT:					
	V = Runoff Volume:	***8.57***	***acre-feet***		

10 Year 72 Hour

INPUT:					
	P = Rainfall Depth:	8.50	inches		
	CN = Curve Number:	95.00			
	A = Basin Area:	19.00	acres		
	S = Potential Maximum Retention After Runoff Begins:	0.53			
	Q = Runoff:	7.90	inches =	0.66	feet
OUTPUT:					
	V = Runoff Volume:	***12.51***	***acre-feet***		

25 Year 72 Hour

INPUT:					
	P = Rainfall Depth:	9.50	inches		
	CN = Curve Number:	95.00			
	A = Basin Area:	19.00	acres		
	S = Potential Maximum Retention After Runoff Begins:	0.53			
	Q = Runoff:	8.90	inches =	0.74	feet
OUTPUT:					
	V = Runoff Volume:	***14.09***	***acre-feet***		

100 Year 72 Hour

INPUT:					
	P = Rainfall Depth:	12.23	inches		
	CN = Curve Number:	95.00			
	A = Basin Area:	19.00	acres		
	S = Potential Maximum Retention After Runoff Begins:	0.53			
	Q = Runoff:	11.62	inches =	0.97	feet
OUTPUT:					
	V = Runoff Volume:	***18.40***	***acre-feet***		

Estimated Post-Development

Water Quality and Treatment Volume

Post-Development

Water Quality and Treatment Volume

Project Name: Fort Pierce RV Storage
Calculated By: TJE
Calculated Date: 4/6/2021

TREATMENT

	Basin Area	Required Pre-Treatment (1.0 in over Site Area)	Provided Treatment	Type of Treatment Provided
	(ac)	(ac-ft)	(ac-ft)	
SITE	17.375	3.826	4.000	Wet Detention Pond

WATER QUALITY

Site Area (ac)	17.380
Building Area* (ac)	0.020
Wet Detention Pond Area (ac)	2.810
Impervious Area (ac)	13.145
Pervious Area (ac)	4.300

Area Required for Dry Pretreatment (Total Site - Lake Area)	14.570
Required Dry Pretreatment (0.5" X Treatment Area)	0.607

Site Area for Water Quality = Site Area - Building Area - Pond	14.550
Site Area for Water Quality - Pervious =	10.250
Percentage Impervious for Water Quality =	70.4%

1" x Site Area (ac-ft)	1.448
2.5" x Percentage Impervious for Water Quality (ac-ft)	2.551
Treatment Required for Site (ac-ft)	2.551

Net Required Treatment (ac-ft) (150% for OFW)	3.826
Treatment Provided (ac-ft)	4.000

APPENDIX D

Supporting Documentation

Conceptual SFWMD ERP

Permit No. #56-100483-P

Drainage Calculations

for

Camping World Mass Grading
Fort Pierce, FL

Prepared By:

Engineering Design & Construction, Inc.
10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
Board of Professional Engineers Certificate of Authorization Number 9935

June 2018

R.J. Kennedy, P.E. #56218 Date
10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
(772) 462-2455

Drainage Calculation Summary

Project Description

The project consists of mass grading and construction of a stormwater water management system to serve a proposed outdoor recreation development (commercial/retail). The final development will see the construction of a 47,456 SF Gander Outdoors retail building, a 17,750 SF Camping World retail & sales building, a 15,035 SF service area, utilities, and the associated parking area. The project will mass grade a 28.97 acre portion of the larger 45.00 acre property. Of the 28.97 acres to be mass graded during this phase 26.53 acres will consist of the outdoor recreation facility and 2.44 acres will consist of a future commercial outparcel ("Outparcel 2"). The remaining 16.03 acres of the property will remain in its existing condition (agricultural). The stormwater management system will provide treatment and attenuation for 28.97 acres of development. Dry pre-treatment will be provided under this phase for the 26.53 acres of the outdoor recreation facility. The future outparcel will be required to provide for its own dry pre-treatment during its respective permitting & construction. There are 0.46 acres of man-made agricultural ditches (other surface waters) to be impacted by the project. The site will be served by the Fort Pierce Utilities Authority (FPUA) for water and wastewater.

The project is located north of Okeechobee Road (SR-70), east of Interstate 95, on Jenkins Road in the City of Fort Pierce. The parcel ID numbers are 2313-431-0000-000-1, 2313-441-0000-000-2, 2313-444-0040-000-3, 2313-443-0000-000-7, and 2313-434-0001-000-8. The project is located in Section 13, Township 35 South, and Range 39 East.

Please see the enclosed plans and appendices for more detailed site information.

Existing Drainage Conditions

The existing site consists of 45.00 acres of agricultural land (citrus groves). Drainage from the groves is conveyed overland by beds and furrows to a series of primary ditches. The ditches convey drainage south to an existing 36" flashboard riser structure that outfalls into the North St. Lucie River Water Control District (NSLRWCD) Canal 37. The existing outfall pipe is cantilevered above the normal control elevation (dry season 7.78 NAVD, wet season 4.53 NAVD) of Canal 37. The 36" flashboard riser structure does not have any weir plates or boards in place. During a June 2018 site visit an old tire was observed immediately in front of the structure. It did not appear to be acting as a weir or causing appreciable staging. As such, any water collected into the ditch is currently discharged into Canal 37 at the structure invert (8.65 NAVD). This free discharge condition appears to have persisted for a long time based on stain lines observed by EDC during the recent site visit.

There is not currently any comingle of runoff outside of the property boundaries. The eastern and northern boundaries drain into roadside swales. The western boundary drains into the Interstate 95 stormwater system. The southern boundary is divided by elevated banks along the NSLRWCD Canal 37 right-of-way.

Soils

Please see the enclose soils map. The majority of the site consists of Wabasso sand, 0 to 2 percent slopes and Winder loamy sand. A minor coverage of Hilolo loamy sand exists at the center of the site.

Control Elevation

As previously noted in the existing drainage section of this report, the site is currently controlled by a freely discharging pipe at elevation 8.65 NAVD. Water and stain lines were observed at the invert of this pipe during a June 2018 site visit.

There is an existing culvert pipe within the swale along Jenkins Road that outfalls directly to NSLRWD Canal 37. The culvert is at invert 11.19 NAVD. During the June 2018 site visit the invert of the pipe was observed to be dry.

NSLRWCD Canal 37 was observed to have a water level near the invert of a 60” culvert beneath Jenkins Road (elevation 5.60 NAVD).

It is important to note that the above observations were made following above average wet season rainfall during the last half of May. Based on SFWMD records the month of May experienced 448% of its average monthly rainfall.

Please see the following exhibits below.



Exhibit 1. Existing Site Control Structure



Exhibit 2. Existing Culvert in Jenkins Road Swale

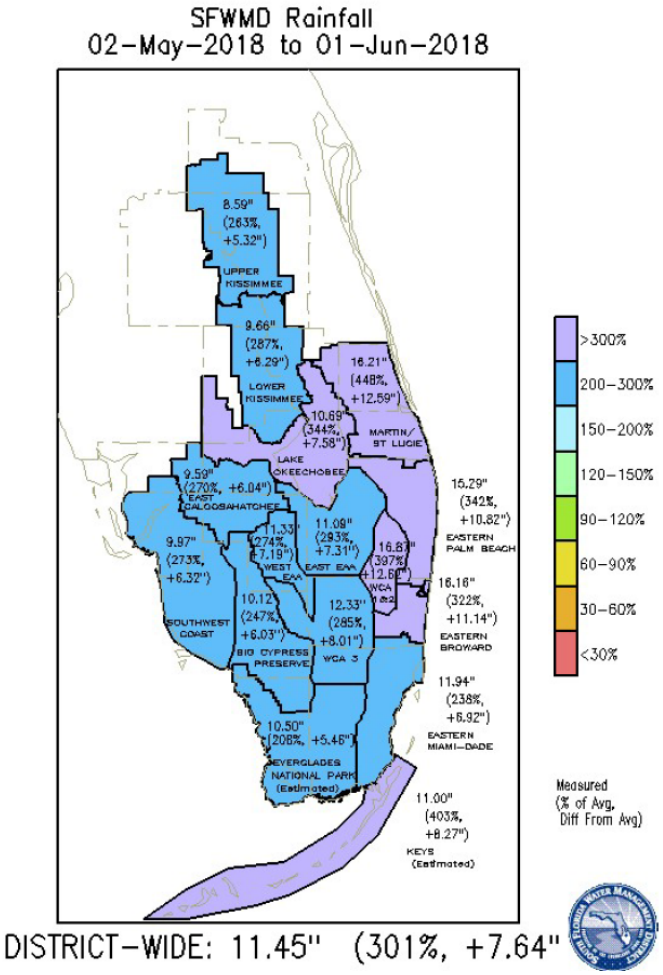


Exhibit 3. SFWMD Rainfall Map

Based on the above referenced information the following design control elevation has been determined to be 10.00 NAVD.

Tailwater

The proposed project will discharge to North St. Lucie River Water Control District (NSLRWCD) Canal No. 37. EDC obtained the drainage permit files for existing projects along this reach of canal. The adjacent Jenkins Road K-8 School (ERP 56-02469-P) and Portofino Landings (ERP 56-00577-S) developments have both historically been designed to the same tailwater condition. As such, the permitted tailwater condition has been adopted for the design of the Camping World stormwater management system. Please see the enclosed Appendix F for the associated supplemental information.

Proposed Drainage Conditions

The proposed project has been designed to maintain the existing drainage pattern and outfall location to NSLRWCD Canal 37. In the post-development condition there will be two (2) primary drainage basins within the overall 45.00 acre property.

Camping World and Outparcel

Drainage from the 26.53 acre outdoor recreation facility (“Camping World”) and 2.44 acre future outparcel (“Outparcel 2”) will be routed to a proposed wet detention lake system. The propose site plan for Camping World has been used for land use coverage. Land use coverage assumptions of 60% impervious, 20% building, and 20% pervious have been assumed for future Outparcel 2. Prior to discharge into the lake system Camping World will be routed through a dry detention area for pre-treatment. The future outparcel will be required to provide its own dry pre-treatment at its respective time for permitting and construction. The lake will outfall via a modified Type E control structure and the existing 36” pipe.

Existing Off-site (Remaining) 16.03 Acres

The remaining 16.03 acres of the property will remain in its existing condition until it is developed in the future. In order to not adversely affect existing drainage patterns, the proposed stormwater system has been designed to provide pass-through for the 16.03 acres. This also allows for future routing to the sites outfall location when this portion of the site is eventually developed. A directly connected pipe will be installed between the proposed wet detention lake and an existing ditch to remain. EDC has performed two (2) modeling scenarios in order to demonstrate that the stormwater system will function accordingly for pass through of the existing condition and future development of this area.

Please see the enclose construction plans and appendices for additional information.

Design Criteria

The system will be designed to satisfy the treatment and attenuation design criteria for the South Florida Water Management District (SFWMD), the North St. Lucie River Water Control District (NSLRWCD), and the City of Fort Pierce. This includes an additional 50% water quality and net improvement provisions for sites with discharge to the South Fork of the St Lucie River Basin (verified impaired).

Water Quality Treatment

The proposed system will provide water quality treatment in excess of the City of Fort Pierce and SFWMD ERP criteria. Water quality will be provided for the Camping World and Outparcel 2 in the proposed system. The remaining 16.03 acres is routed as pass through, thus treatment will not be provided at this time. Future development of the 16.03 acres will require construction of additional stormwater management facilities in order to provide the required water quality volume.

The site is required to meet additional water quality criteria for discharge to the St. Lucie Basin. The proposed system provides a net improvement for the average annual nutrient loads leaving the site. The design water quality retention volume is in excess of 150% of the SFWMD design volume (OFW criteria).

The stormwater management system will provide a mix of wet dry detention and wet to satisfy the above criteria. For these calculations please see the enclosed Appendices A and D.

Dry Pre-Treatment

Per the South Florida Water Management District, 0.50 inches of dry pre-treatment is required over the site for a commercial development. Please note, dry pre-treatment will be provided for only the Camping World portion of development. The future outparcel will be required to provide its own dry pre-treatment prior to discharging into the lake system. This will be provided at the time of permitting and development of the outparcel.

Camping World Development Area = 26.53 ac
Wet Detention Lake @ Control Elevation = 3.19 ac
0.5”/12 x (26.53 ac – 3.19 ac) = 0.97 acft of dry pre-treatment is required.

In order to provide the required dry pre-treatment the applicant proposes to construct two dry detention swales. The dry detention swales will capture runoff behind two modified Type E structures with horizontal weirs and provide pre-treatment prior to discharge into the wet detention lake. Minimum sized bleeders (3) will be installed on the structures.

Provided dry pre-treatment = 1.01 acft

Please note that the 1.01 acft of dry detention provided by swale system is credited towards the 6.31 acft of total water quality treatment required for the project. Thus, the remaining 5.30 acft is required to be provided in the wet detention lake. Please see Appendix A for the drainage calculations.

Net Improvement – Nutrient Loading Analysis

The project site discharges to a NSLRWCD canal that ultimately contributes drainage to the North Fork of the St. Lucie River. The North Fork is a verified impaired waterbody for nutrients. As such, the applicant is required to demonstrate that the average annual nutrient load in the post-development will not exceed that of the pre-development condition. The wet detention lake will provide sufficient residence time in the permanent pool volume to achieve the necessary level of nutrient removal. Please see Appendix D for the associated net improvement calculations.

Water Quantity

The proposed system is required to satisfy the attenuation and flood control criteria of the SFWMD and NSLRWCD. In order to account for both proposed and future condition EDC has provided two (2) ICPR modeling scenarios of the site.

Allowable Discharge

The allowable discharge for the receiving water (NSLRWCD Canal 37) is limited to 2” of depth over the area served for any 24 hour period from the 10-year, 72-hour duration rainfall.

Total site = 45.00 acres

Total Allowable Rate = 2”/12 x 45.00 acres = 7.65 acft in any 24-hour period

Scenario 1 – Developed Condition Model

The proposed stormwater system accounts for all future development of Camping World (26.53 acres), future Outparcel 2 (2.44 acres), and future off-site development of the remaining 16.03 acres. Camping World and Outparcel 2 are modeled as direct basin discharge to the proposed wet detention system. The future development of the 16.03 acres is uncertain at this time. As such, the ICPR model makes the following assumptions for this:

- The future development will construct its own stormwater management system and control structure.
- Discharge from the future system that will continue to pass through the Camping World lake.
- Discharge from the future system will be limited to the allowable NSLRWCD rate for its share of acreage.
- Allowable discharge from the future system has been routed as a rating curve.

Scenario 2 - Existing Off-Site Condition Model

As discussed in previous sections of this report the total contributing drainage area is 45.00 acres. The entire site drains south via ditches to an existing 36" flashboard riser structure into NSLRWCD Canal 37. The property is not currently controlled at the allowable NSLRWCD rate (free discharge, no weir, directly piped). Only 28.97 acres will be developed under this phase. The remaining 16.03 acres will remain in its existing condition. A direct piped connection to the Camping World system will be installed in order to maintain existing drainage patterns to the south (pass through). As such, the applicant has also provided a separate ICPR model that incorporates the storage and runoff from remaining 16.03 acres in its current condition. This analysis is provided to demonstrate that the proposed system will satisfy the applicable water quantity criteria during the time period that the 16.03 acres remains undeveloped. Drainage is sufficiently maintained on-site below existing elevations and adjacent properties will not be affected. Please see the below summary table and Appendix C for additional information.

Bleeder Orifice

The wet detention bleeder orifice shall be sized such that discharge is limited to 0.50" per day. The proposed bleeder orifice will be 4" in diameter. Please see Appendix A for bleeder sizing calculations.

Minimum Road and Parking

The minimum parking lot and driveway elevations are required to be set above the 10-year, 24-hour storm event stage. See the enclosed appendices and the summary table below for further details.

Minimum Perimeter Berm

The minimum perimeter berm elevation is required to be set above the 25-year, 72-hour storm event stage. See the enclosed appendices and the summary table below for further details.

Minimum Finished Floor

The minimum finished floor elevation is required to be set above the 100-year, 72-hour storm event with no discharge. See the enclosed appendices and the summary table below for further details.

Initial Storm Event Summary

CRITERIA	Rainfall Amount	Minimum/Required	Provided/Results
Minimum Road 10-year, 24-hour event	6.00 in	13.28 NAVD	16.00 NAVD
Allowable Discharge 10-year, 72-hour event	8.50 in	No more than 7.65 acft in any 24-hour period	7.27 acft max 24-hour discharge
Perimeter Berm 25-year, 72-hour event	9.50 in	15.45 NAVD	15.75 NAVD
Minimum FFE 100-year, 72-hour event	12.23 in	16.35 NAVD	18.50 NAVD

Recovery Storm Event Summary

Per SFWMD criteria, the system is required to recover to the proposed bleeder invert within 12-days after the design storm event. Due to the allowable discharge rate of the NSLRWCD the proposed system does not recovery entirely to the wet detention bleeder invert. As such, the applicant has run a back-to-back analysis of the stormwater management system with the model start elevation at the 12-day stage of the initial routing analysis. The proposed system continues to provide reasonable assurance of the required water quantity criteria. Please see Appendix C for this ICPR analysis.

CRITERIA	Rainfall Amount	Minimum/Required	Provided/Results
Minimum Road 10-year, 24-hour event	6.00 in	13.98 NAVD	16.00 NAVD
Allowable Discharge 10-year, 72-hour event	8.50 in	No more than 7.65 acft in any 24-hour period	7.54 acft max 24-hour discharge
Perimeter Berm 25-year, 72-hour event	9.50 in	15.55 NAVD	15.75 NAVD
Minimum FFE 100-year, 72-hour event	12.23 in	16.68 NAVD	18.50 NAVD

Existing Off-Site Condition Storm Event Summary

CRITERIA	Rainfall Amount	Minimum/Required	Provided/Results
Minimum Road 10-year, 24-hour event	6.00 in	13.20 NAVD	16.00 NAVD
Allowable Discharge 10-year, 72-hour event	8.50 in	No more than 7.65 acft in any 24-hour period	6.49 acft max 24-hour discharge
Perimeter Berm 25-year, 72-hour event	9.50 in	14.71 NAVD	15.75 NAVD 14.87 NAVD*
Minimum FFE 100-year, 72-hour event	12.23 in	15.57 NAVD	18.50 NAVD

*The minimum perimeter berm elevation of the 16.03 acre portion to remain is 14.87 NAVD.

Jenkins Road Turn Lane

A new right-turn lane and driveway will be constructed at the eastern boundary of the subject site within the Jenkins Road right-of-way. There is no existing ERP or associated drainage permit for this portion of Jenkins Road. This portion of Jenkins Road is crowned at the centerline. The southbound lane currently drains to a roadside swale along the eastern boundary of the subject site. All drainage collected by the swale is conveyed south to an existing culvert pipe that outfalls directly into NSLRWCD Canal 37 (no treatment or attenuation). Existing drainage patterns will be maintained for construction of the proposed turn lane and driveway. The turn lane will be sloped to the west in order to drain into the existing swale. South flowing conveyance in the swale will be maintained by a proposed 24” culvert beneath the driveway. All construction activities within the right-of-way are safety related improvements for access. The turn lane is less than 0.25 miles in length. As such, this portion of the project qualifies for an exemption under 62-330.051(4)c F.A.C.

Datum

All elevations included on the project construction plans are in reference to the North American Vertical Datum 1929. The vertical datum conversion was confirmed using Corpscon 6 software and was found to be 1.475 feet in the project area. This is used to convert NGVD to NAVD, in other words NGVD elevation minus 1.475 feet = NAVD elevation.

SFWMD Water Use Permitting

The proposed project will require dewatering for the construction of the lake and underground piping. As such, an individual permit for dewatering is being submitted concurrently with this application.

The proposed project is for mass grading only. Irrigation will not be constructed at this time. Upon permitting of the detailed construction plans a water use permit application for an irrigation well will be submitted.

Appendix A - Drainage Calculations

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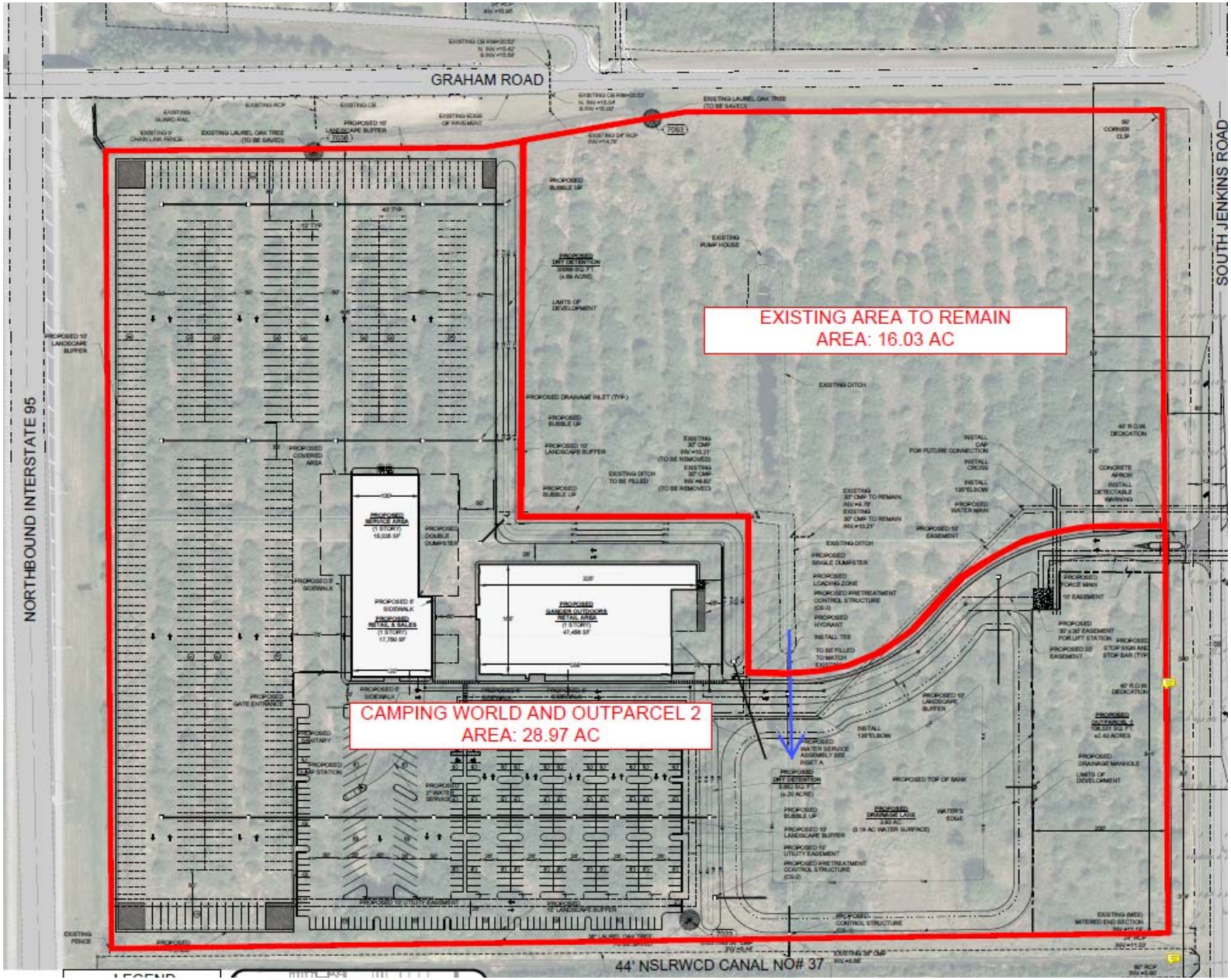
10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
772-462-2455

Basin Map Exhibit



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Camping World and Outparcel - Post Development Stormwater Calculations

Project: Camping World
Project #: 16-225
Engineer: DCB
Date: 6/15/2018
Revised:

Land Use Table

Use	Imp. (ac)	Pervious (ac)	Total (ac)
Buildings =	1.84	0.00	1.84
*Future Building (Assume 20%) =	0.49	0.00	0.49
Impervious =	16.90	0.00	16.90
Future Impervious (Assume (60%) =	1.46	0.00	1.46
Dry Detention Area =	0.00	0.89	0.89
Wet Detention Area =	3.19	0.74	3.93
Pervious =	0.00	2.98	2.98
*Future Pervious =	0.00	0.49	0.49
Undeveloped or Preserve Land =	0.00	0.00	0.00
TOTAL =	23.88	5.09	28.97

*Future Outparcel Development Area = 2.44 ac
**Does not include off-site undeveloped site to be routed as pass through

Stage-Area Table

:see stage-storage chart for information.

Find Curve Number:

Avg. Pervious Ground El. = 15.00
Control Elevation = 10.00
Distance to Water Table = 4.00

Soil Storage Table

Depth to W.T. (ft)	Coastal Storage (in)	Flatwoods Storage (in)	Depression Storage (in)
1.0	0.6	0.6	0.6
1.5	1.6	1.6	1.4
2.0	2.5	2.5	2.1
2.5	4.6	4.0	3.3
3.0	6.6	5.4	4.4
3.25	7.7	6.3	5.0
3.5	8.8	7.2	5.6
4.0	10.9	9.0	6.8

Find the basin's soil classification and input below as "Soil Storage" using the above "Depth to W.T.".

Developed Compacted Pervious Area = 3.46 *Does not include BMP area
Undeveloped Pervious Area = 0.00
Soil Storage = 6.80
Soil Moisture Storage (S) = 0.61 inches
Curve Number = **94** inches

Time of Concentration

The following formulas are per the SCS "Urban Hydrology for Small Watersheds" Technical Publication-55.

Sheet flow occurs over plane surfaces.

$$T_{sf} = \frac{.007 * (n * L)^{.8}}{(P_2)^{.5} * (s)^{.4}}$$

T_{sf} = Time of Sheet Flow (hour)
n = Mannings Roughness Coefficient
P_2 = 2-year 24-hour Rainfall (inches)
s = Slope of Hydraulic Grade (feet/feet)
L = Flow Length (feet)

After 300-feet sheet flow usually becomes shallow concentrated flow.

(Unpaved) $V = 16.1345 * (s)^{.5}$
(Paved) $V = 20.3282 * (s)^{.5}$

T_{cf} = Time of Concentrated Flow (hour)
s = Slope of Hydraulic Grade (feet/feet)
V = Average Velocity (feet/second)

Use the velocity to solve for travel time.

$$T_t = \frac{L}{3600 * V}$$

T_t = Travel Time (hour)
L = Flow Length (feet)
V = Average Velocity (feet/second)

When determining flows in open channels use Manning's equation.

$$V = \frac{1.49 * r^{.67} * s^{.5}}{n}$$

r = Hydraulic Radius (feet) equal to a/p_w
s = Slope of Hydraulic Grade (feet/feet)
V = Average Velocity (feet/second)
n = Mannings Roughness Coefficient
a = cross sectional area (sq.ft.)
p_w = wetted perimeter (feet)

* Use the velocity to solve for travel time with the formula above.

This following calculations for the project have a segmented travel flow line.

T_1 = On site (sheet flow).

Parameters for T_{1A} :	n =	0.012	coefficient	
	P_2 =	5.00	inches	
	s =	0.001	foot/foot	
	L =	0	feet	
T_{1A} =	0.0000	hour =	0.00	minutes
T_t =	0.0000	hour =	0.0	
Parameters for T_{1b} :	n =	0.011	coefficient	
	P_2 =	5.00	inches	
	s =	0.020	foot/foot	
	L =	0	feet	
T_{1B} =	0.0000	hour =	0.00	minutes
T_t =	0.0000	hour =	0.0	

Parameter for T2:

V= 0.51021769

V=	0.16		
s =	0.005	foot/foot	
L =	0	feet	

T_1 =	0.0000	hour =	0.00	minutes
T_t =	0.0000	hour =	0.0	

used 10 minutes

TC= total T1A+T1B+T2 0.0

Camping World and Outparcel - Post-Development Water Quality Calculations

Project:	Camping World	**Engineer:**	DCB
Project #:	16-225	**Date:**	6/15/2018

1-inch Over the Project Area - per SFWMD

(Treated Volume) 1-inch * 1-ft/12-in * 28.970 (PROJECT AREA) = 2.41 (TREATED VOLUME) ac-ft

2.5-inches Times the Percent Impervious - per SFWMD

(Site Area) 28.970 (PROJECT AREA (AC)) - (3.189 (LAKES (AC)) + 2.329 (ROOFS (AC))) = 23.453 (SITE AREA) ac

(Impervious Area) 23.453 (SITE AREA (AC)) - 5.091 (PERVIOUS AREA (AC)) = 18.361 (IMPERVIOUS AREA) ac

(% Impervious) IMPERVIOUS AREA * 100% / SITE AREA (AC) = 78.29%

(2.5-in * % Imp.) 2.5-inches * 78.29% (PERCENT IMPERVIOUS) = 1.96 (INCHES TO BE TREATED)

(Treated Volume) 1.96 (TREATED (IN)) * 1-ft/12-in * 25.78 (PROJECT AREA - LAKES (AC)) = 4.21

	SFWMD - STD	SFWMD - OFW
Required Wet Detention (100%) =	**4.21**	**6.31**
Required Dry Detention (75%) =	**3.15**	**4.73**
Required Retention (50%) =	**2.10**	**3.15**

* An additional 0.5-inch of pretreatment for industrial or commercial projects will be needed.
** OFW volume is 150% of the standard SFWMD criteria

Camping World and Outparcel - Post Development Bleeder Size Calculations

Project: Camping World | **Engineer:** DCB
Project #: 16-225 | **Date:** 6/15/2018

Allowed discharge in the first 24-hours is .5-inches of the required detention.

(Discharge Volume) 0.5-inch * 1-ft/12-in * 25.782 (PROJECT AREA - LAKES (AC)) = 1.074 (TREATED VOLUME) ac-ft

(Conversion) 1-day / 86,400-sec. * 43,560-sf / 1-acre * 1.074 (VOLUME (AC-FT)) = 0.542 (DISCHARGE) cfs

Basin Area = 28.970 ac

Lake Area = 3.189 ac

Bleeder Elevation = 10.00 ft

Bleeder Size (dia) = 4.00 in * First iteration use 3-inch diameter bleeder.

Number of bleeders = 1.00 * Enter the number of bleeders.

Water Quality Stage = 11.60 ft * Enter water quality staqe elevation from the stage-storage table spread sheet.

Bleeder Sizing:

Size bleeder to discharge at a rate of 0.5 in/day for the contributing area.

For circular orifice use the following equation.

$$A = \frac{Q}{4.8 * (H)^{.5}}$$

Q = Maximum Flow (cfs)
A = Cross Sectional Area (sq.ft.)
H = Head above bleeder centroid (ft)

Results, Q = 0.542 cfs
H = 1.433 feet

A = 0.0942 sq.ft.

For diameter of the circular orifice use the following equation.

$$d = \left(\frac{4 * A}{Pi}\right)^{.5}$$

d = diameter (ft)
A = Cross Sectional Area (sq.ft.)

Results, A = 0.0942 sq.ft.

d = 0.3464 feet

Finally, the diameter in inches

d = 4.16 inches — Use 4.00" Bleeder

* If diameter is larger than 3-inches than "Bleeder Size" input information needs to be revised until bleeder input size and output diameter equal each other.

Note: add bleeder diameter to control elevation. Ensure that its less than weir elevation by three inches

Camping World and Outparcel - Post Development Stage Storage Calculations

Land use Category	Storage Type	Area (ac.)	From Elev.	To Elev.	Cumulative Stage-Storage (ac-ft)											
					10.00	10.50	11.00	11.50	12.00	12.50	13.50	14.50	15.50	16.50	17.50	18.50
Dry Detention Area																
Dry Detention Bottom - North	Vertical	0.1943	14.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.29	0.49	0.68	0.87
Dry Detention Slopes - North	Linear	0.4959	14.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.28	0.74	1.24	1.74
Dry Detention Bottom - South	Vertical	0.0539	13.50		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.11	0.16	0.22	0.27
Dry Detention Slopes - South	Linear	0.1448	13.50	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.12	0.25	0.40	0.54
DRY WATER QUALITY					**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.21**	**0.79**	**1.64**	**2.53**	**3.42**
Wet Dentention Area																
Wet Detention at C.E.	Vertical	3.1887	10.00		0.00	1.59	3.19	4.78	6.38	7.97	11.16	14.35	17.54	20.73	23.92	27.10
Wet Detention Slopes	Linear	0.7387	10.00	15.00	0.00	0.02	0.07	0.17	0.30	0.46	0.90	1.50	2.22	2.95	3.69	4.43
WET WATER QUALITY					**0.00**	**1.61**	**3.26**	**4.95**	**6.67**	**8.43**	**12.07**	**15.85**	**19.75**	**23.68**	**27.61**	**31.54**
Asphalt & Concrete	Linear	16.9001	16.00	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	7.61	21.13
Open Space	Linear	2.9764	15.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	1.12	3.10	5.95
Future Asphalt & Concrete	Linear	1.4614	16.50	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	1.46
Future Open Space	Linear	0.4871	15.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.18	0.51	0.97
	Sub-Total:	26.64		**Totals:**	**0.00**	**1.61**	**3.26**	**4.95**	**6.67**	**8.43**	**12.07**	**16.06**	**20.69**	**27.47**	**41.72**	**64.47**
Building Pads		1.84	*Not included in Stage-storage calculations													
Future Building Pad		0.49	*Future outparcel, see post development basin assumptions. Not included in Stage-storage calculations.													
	Total:	28.97														

ICPR Volume to Area Conversion

$A_2 = 2((V_2-V_1)/(S_2-S_1)) - A1$

Stage	Volume	Area
10.00	**0.00**	**0.194**
10.50	**1.61**	**6.257**
11.00	**3.26**	**0.000**
11.50	**4.95**	**6.747**
12.00	**6.67**	**0.000**
12.50	**8.43**	**7.042**
13.50	**12.07**	**0.000**
14.50	**16.06**	**7.981**
15.50	**20.69**	**0.000**
16.50	**27.47**	**13.555**
17.50	**41.72**	**14.946**
18.50	**64.47**	**0.000**

Set Water Quality Elevation

Total Water Quality Volume Required:	**6.31**	ac-ft	<---	See Water Quality Volume Calculation Sheet
Required Dry Detention Pre-Treatment:	**0.97**	ac-ft	<---	0.5"/12 x Camping World Project Area (26.53 ac - Lake)
Required Water Quality Dry Pre-Treatment Stage:	**15.71**		<---	Per Stage Storage in Dry Detention Area Only
Proposed Dry Pre-Treatment Weir Elevation:	**15.75**			
Dry Pre-Treatment Detention Volume Provided:	**1.01**			
Wet Detention Water Quality Volume Remaining:	**5.30**	ac-ft	<---	Total Required WQTV - Provided Dry Pre-Treatment
Required Water Quality Wet Detention Stage:	**11.60**	NAVD	<---	Per Stage Storage in Wet Detention Area Only
Proposed Wet Water Quality Weir Elevation:	**11.60**	NAVD		
Wet Water Quality Detention Volume Provided:	**5.30**	ac-ft	<---	Provided Wet Detention Volume between Bleeder and Weir
Total Water Quality Volume Provided:	**6.31**	ac-ft	<---	= Provided Dry Pre-Treatment + Provided Wet Detention

Sufficient Water Quality Treatment Provided

Existing Off-Site Basin Stormwater Calculations

Project: Camping World
Project #: 16-225
Engineer: DCB
Date: 6/15/2018
Revised:

Land Use Table

Use	Imp. (ac)	Pervious (ac)	Total (ac)
Buildings =	0.000	0.000	0.000
Impervious =	0.000	0.000	0.000
Dry Detention Area =	0.000	0.000	0.000
Existing Ditch Area =	0.662	0.000	0.662
Developed Compacted Open Space =	0.000	0.000	0.000
Undeveloped or Preserve Land =	0.000	15.368	15.368
TOTAL =	0.662	15.368	16.030

Stage-Area Table

:see stage-storage chart for information.

Find Curve Number:

Avg. Pervious Ground El. = 15.00
Control Elevation = 10.00
Distance to Water Table = 4.00

Soil Storage Table

Depth to W.T. (ft)	Coastal Storage (in)	Flatwoods Storage (in)	Depression Storage (in)
1.0	0.6	0.6	0.6
1.5	1.6	1.6	1.4
2.0	2.5	2.5	2.1
2.5	4.6	4.0	3.3
3.0	6.6	5.4	4.4
3.25	7.7	6.3	5.0
3.5	8.8	7.2	5.6
4.0	10.9	9.0	6.8

Find the basin's soil classification and input below as "Soil Storage" using the above "Depth to W.T.".

Developed Compacted Pervious Area = 7.68
Undeveloped Pervious Area = 7.68
Soil Storage = 6.80
Soil Moisture Storage (S) = 5.70 inches
Curve Number = **64** inches

Time of Concentration

The following formulas are per the SCS "Urban Hydrology for Small Watersheds" Technical Publication-55.

Sheet flow occurs over plane surfaces.

$$T_{sf} = \frac{.007 * (n * L)^{.8}}{(P_2)^{.5} * (s)^{.4}}$$

T_{sf} = Time of Sheet Flow (hour)
n = Mannings Roughness Coefficient
P_2 = 2-year 24-hour Rainfall (inches)
s = Slope of Hydraulic Grade (feet/feet)
L = Flow Length (feet)

After 300-feet sheet flow usually becomes shallow concentrated flow.

(Unpaved) $V = 16.1345 * (s)^{.5}$
(Paved) $V = 20.3282 * (s)^{.5}$

T_{cf} = Time of Concentrated Flow (hour)
s = Slope of Hydraulic Grade (feet/feet)
V = Average Velocity (feet/second)

Use the velocity to solve for travel time.

$$T_t = \frac{L}{3600 * V}$$

T_t = Travel Time (hour)
L = Flow Length (feet)
V = Average Velocity (feet/second)

When determining flows in open channels use Manning's equation.

$$V = \frac{1.49 * r^{.67} * s^{.5}}{n}$$

r = Hydraulic Radius (feet) equal to a/p_w
s = Slope of Hydraulic Grade (feet/feet)
V = Average Velocity (feet/second)
n = Mannings Roughness Coefficient
a = cross sectional area (sq.ft.)
p_w = wetted perimeter (feet)

* Use the velocity to solve for travel time with the formula above.

This following calculations for the project have a segmented travel flow line.

T_1 = On site (sheet flow).

Parameters for T_{1A} :	n =	0.012	coefficient
	P_2 =	5.00	inches
	s =	0.001	foot/foot
	L =	0	feet

T_{1A} =	0.0000	hour	=	0.00 minutes
T_t =	0.0000	hour	=	0.0

Parameters for T_{1b} :	n =	0.011	coefficient
	P_2 =	5.00	inches
	s =	0.020	foot/foot
	L =	0	feet

T_{1B} =	0.0000	hour	=	0.00 minutes
T_t =	0.0000	hour	=	0.0

Parameter for T2:

V= 0.51021769

V=	0.16	
s =	0.005	foot/foot
L =	0	feet

T_1 =	0.0000	hour	=	0.00 minutes
T_t =	0.0000	hour	=	0.0

used 10 minutes

TC= total T1A+T1B+T2 0.0

Existing Off-Site Basin-Stage Storage Calculations for Camping World

Land use Category	Storage Type	Area (ac.)	From Elev.	To Elev.	Cumulative Stage-Storage (ac-ft)											
					10.00	10.50	11.00	11.50	12.00	12.50	13.50	14.50	15.50	16.50	17.50	18.50
Existing Ditch @ C.E.	Vertical	0.6620	10.00		0.00	0.33	0.66	0.99	1.32	1.65	2.32	2.98	3.64	4.30	4.96	5.63
Existign Ditch Slopes	Linear	0.0000	10.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
WATER QUALITY					**0.00**	**0.33**	**0.66**	**0.99**	**1.32**	**1.65**	**2.32**	**2.98**	**3.64**	**4.30**	**4.96**	**5.63**
Asphalt & Concrete	Linear	0.0000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Open Space	Linear	15.3680	13.50	16.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.56	10.25	23.05	38.42	53.79
	Sub-Total:	16.03		**Totals:**	**0.00**	**0.33**	**0.66**	**0.99**	**1.32**	**1.65**	**2.32**	**5.54**	**13.89**	**27.35**	**43.38**	**59.41**
Building Pads		0.00	*Not included in Stage-storage calculations													
	Total:	16.03														

ICPR Volume to Area Conversion

$A_2 = 2((V_2-V_1)/(S_2-S_1)) - A1$

Stage	Volume	Area
10.00	0.00	0.662
10.50	0.33	0.000
11.00	0.66	1.324
11.50	0.99	0.000
12.00	1.32	1.324
12.50	1.65	0.000
13.50	2.32	1.324
14.50	5.54	5.123
15.50	13.89	11.569
16.50	27.35	15.368
17.50	43.38	0.000
18.50	59.41	0.000

Appendix B - ICPR Routing Developed Condition Model Initial Storm Events

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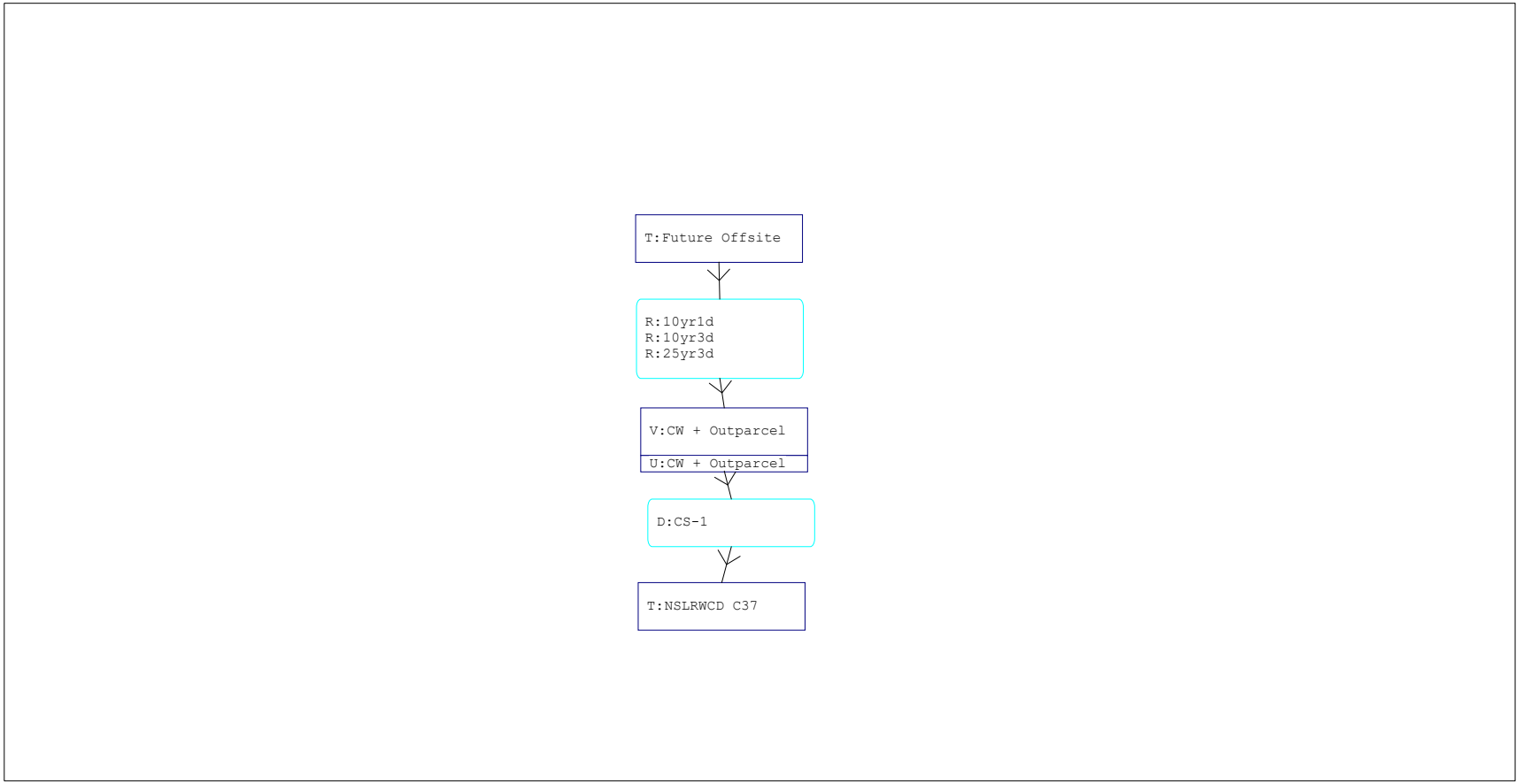
10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
772-462-2455

16-225 Camping World - Initial Storm Routing
Nodal Diagram

Nodes
A Stage/Area
V Stage/Volume
T Time/Stage
M Manhole

Basins
O Overland Flow
U SCS Unit CN
S SBUH CN
Y SCS Unit GA
Z SBUH GA

Links
P Pipe
W Weir
C Channel
D Drop Structure
B Bridge
R Rating Curve
H Breach
E Percolation
F Filter
X Exfil Trench



Interconnected Channel and Pond Routing Model (ICPR) ©2002 Streamline Technologies, Inc.

==========
==== Basins ====
==========

Name: CW + Outparcel Node: CW + Outparcel Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 28.970 Time Shift(hrs): 0.00
Curve Number: 94.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

==========
==== Nodes ====
==========

Name: CW + Outparcel Base Flow(cfs): 0.000 Init Stage(ft): 10.000
Group: BASE Warn Stage(ft): 18.500
Type: Stage/Volume

Stage(ft)	Volume(af)
10.000	0.0000
10.500	1.6100
11.000	3.2600
11.500	4.9500
12.000	6.6700
12.500	8.4300
13.500	12.0700
14.500	16.0600
15.500	20.6900
16.500	27.4700
17.500	41.7200
18.500	64.4700

Name: Future Offsite Base Flow(cfs): 0.000 Init Stage(ft): 13.000
Group: Offsite Warn Stage(ft): 18.500
Type: Time/Stage

Time(hrs)	Stage(ft)
0.00	13.000
62.00	13.000
360.00	13.000

Name: NSLRWCD C37 Base Flow(cfs): 0.000 Init Stage(ft): 7.780
Group: BASE Warn Stage(ft): 18.500
Type: Time/Stage

Time(hrs)	Stage(ft)
0.00	7.780
62.00	7.780
360.00	7.780

==========
==== Operating Tables ====
==========

Name: 10yr1d Group: 10yr1d
Type: Rating Curve
Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
24.00	1.00
120.00	0.00

Name: 10yr3d Group: 10yr3d
Type: Rating Curve

Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
62.00	1.41
360.00	0.00

Name: 25yr3d Group: 25yr3d
Type: Rating Curve
Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
62.00	1.58
360.00	0.00

==========

Drop Structures

==========

Name: CS-1 From Node: CW + Outparcel Length(ft): 35.00
Group: Outfalls To Node: NSLRWCD C37 Count: 1

	UPSTREAM	DOWNSTREAM		
Geometry:	Circular	Circular	Friction Equation:	Automatic
Span(in):	36.00	36.00	Solution Algorithm:	Most Restrictive
Rise(in):	36.00	36.00	Flow:	Both
Invert(ft):	8.650	8.440	Entrance Loss Coef:	0.000
Manning's N:	0.012000	0.012000	Exit Loss Coef:	1.000
Top Clip(in):	0.000	0.000	Outlet Ctrl Spec:	Use dc or tw
Bot Clip(in):	0.000	0.000	Inlet Ctrl Spec:	Use dc
			Solution Incs:	10

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Groove end projecting

*** Weir 1 of 4 for Drop Structure CS-1 ***

TABLE

Count: 1 Bottom Clip(in): 0.000
Type: Vertical: Mavis Top Clip(in): 0.000
Flow: Both Weir Disc Coef: 3.200
Geometry: Circular Orifice Disc Coef: 0.600

Span(in): 4.00 Invert(ft): 10.000
Rise(in): 4.00 Control Elev(ft): 10.000

*** Weir 2 of 4 for Drop Structure CS-1 ***

TABLE

Count: 1 Bottom Clip(in): 0.000
Type: Vertical: Mavis Top Clip(in): 0.000
Flow: Both Weir Disc Coef: 3.200
Geometry: Rectangular Orifice Disc Coef: 0.600

Span(in): 8.00 Invert(ft): 11.600
Rise(in): 6.00 Control Elev(ft): 11.600

*** Weir 3 of 4 for Drop Structure CS-1 ***

TABLE

Count: 1 Bottom Clip(in): 0.000
Type: Vertical: Mavis Top Clip(in): 0.000
Flow: Both Weir Disc Coef: 3.200
Geometry: Rectangular Orifice Disc Coef: 0.600

Span(in): 54.00 Invert(ft): 15.250
Rise(in): 6.00 Control Elev(ft): 15.250

*** Weir 4 of 4 for Drop Structure CS-1 ***

TABLE

Count: 1 Bottom Clip(in): 0.000
Type: Horizontal Top Clip(in): 0.000
Flow: Both Weir Disc Coef: 3.200
Geometry: Rectangular Orifice Disc Coef: 0.600

Span(in): 54.00 Invert(ft): 15.750
Rise(in): 18.00 Control Elev(ft): 15.750

```
================================================================================
==== Rating Curves =============================================================
================================================================================

         Name: 10yr1d              From Node: Future Offsite          Count: 1
        Group: 10yr1d                To Node: CW + Outparcel          Flow: Both

               TABLE           ELEV ON(ft)     ELEV OFF(ft)
           #1: 10yr1d          13.000          13.000
           #2:                 0.000           0.000
           #3:                 0.000           0.000
           #4:                 0.000           0.000



--------------------------------------------------------------------------------------------------------
         Name: 10yr3d              From Node: Future Offsite          Count: 1
        Group: 10yr3d                To Node: CW + Outparcel          Flow: Both

               TABLE           ELEV ON(ft)     ELEV OFF(ft)
           #1: 10yr3d          13.000          13.000
           #2:                 0.000           0.000
           #3:                 0.000           0.000
           #4:                 0.000           0.000



--------------------------------------------------------------------------------------------------------
         Name: 25yr3d              From Node: Future Offsite          Count: 1
        Group: 25yr3d                To Node: CW + Outparcel          Flow: Both

               TABLE           ELEV ON(ft)     ELEV OFF(ft)
           #1: 25yr3d          13.000          13.000
           #2:                 0.000           0.000
           #3:                 0.000           0.000
           #4:                 0.000           0.000



================================================================================
==== Hydrology Simulations =====================================================
================================================================================

          Name: 100yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\100yr3d.R32

       Override Defaults: Yes
    Storm Duration(hrs): 72.00
          Rainfall File: Sfwmd72
    Rainfall Amount(in): 12.23

Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         5.00

--------------------------------------------------------------------------------------------------------
          Name: 10yr1d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr1d.R32

       Override Defaults: Yes
    Storm Duration(hrs): 24.00
          Rainfall File: Scsiii
    Rainfall Amount(in): 6.00

Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         5.00

--------------------------------------------------------------------------------------------------------
          Name: 10yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr3d.R32

       Override Defaults: Yes
    Storm Duration(hrs): 72.00
          Rainfall File: Sfwmd72
    Rainfall Amount(in): 8.50

Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         5.00

--------------------------------------------------------------------------------------------------------
          Name: 25yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\25yr3d.R32

       Override Defaults: Yes
```

```
    Storm Duration(hrs): 72.00
          Rainfall File: Sfwmd72
    Rainfall Amount(in): 9.50

Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         5.00

================================================================================
==== Routing Simulations ======================================================
================================================================================

         Name: 100yr3d             Hydrology Sim: 100yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\100yr3d.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 360.00
     Min Calc Time(sec): 0.5000              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:


Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         15.000

Group           Run
--------------- -----
BASE            Yes
Offsite         Yes


--------------------------------------------------------------------------------------------------------
         Name: 10yr1d              Hydrology Sim: 10yr1d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr1d.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 360.00
     Min Calc Time(sec): 0.5000              Max Calc Time(sec): 60.0000
        Boundary Stages: 10yr1d                  Boundary Flows:


Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         15.000

Group           Run
--------------- -----
10yr1d          Yes
BASE            Yes
Offsite         Yes
Outfalls        Yes


--------------------------------------------------------------------------------------------------------
         Name: 10yr3d              Hydrology Sim: 10yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr3d.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 360.00
     Min Calc Time(sec): 0.5000              Max Calc Time(sec): 60.0000
        Boundary Stages: 10yr3d                  Boundary Flows:


Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         15.000

Group           Run
--------------- -----
10yr3d          Yes
BASE            Yes
Offsite         Yes
```

Outfalls Yes

Name: 25yr3d Hydrology Sim: 25yr3d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\25yr3d.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 360.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: 10yr3d Boundary Flows:

Time(hrs)	Print Inc(min)
360.000	15.000

Group	Run
25yr3d	Yes
BASE	Yes
Offsite	Yes
Outfalls	Yes

==== Boundary Conditions ====

Name: 10yr1d Node: NSLRWCD C37 Type: Stage

Time(hrs)	Stage(ft)
0.000	7.780
1.330	9.420
2.670	9.730
4.000	10.770
5.330	10.140
6.670	9.590
8.000	9.420
9.330	9.530
10.670	9.770
12.000	11.060
13.330	10.300
14.670	9.650
16.000	9.450
17.330	9.650
18.670	10.010
20.000	11.950
21.330	10.810
22.670	9.830
24.000	9.530
360.000	7.780

Name: 10yr3d Node: NSLRWCD C37 Type: Stage

Time(hrs)	Stage(ft)
0.000	7.780
4.000	10.580
8.000	10.950
12.000	12.060
16.000	11.360
20.000	10.760
24.000	10.580
28.000	10.700
32.000	10.960
36.000	12.390
40.000	11.540
44.000	10.830
48.000	10.610
52.000	10.830
56.000	11.230
60.000	13.370
64.000	12.110
68.000	11.020
72.000	10.700
360.000	7.780

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CW + Outparcel	BASE	100yr3d	73.00	16.35	18.50	0.0050	425735	60.00	156.04	0.00	0.00
CW + Outparcel	BASE	10yr1d	23.67	13.28	18.50	0.0050	163956	12.25	101.27	23.67	2.66
CW + Outparcel	BASE	10yr3d	68.41	15.17	18.50	0.0050	228225	60.00	109.14	72.01	3.79
CW + Outparcel	BASE	25yr3d	68.01	15.45	18.50	0.0050	245420	60.00	122.26	68.03	5.20
Future Offsite	Offsite	100yr3d	0.00	13.00	18.50	0.0000	0	0.00	0.00	0.00	0.00
Future Offsite	Offsite	10yr1d	0.00	13.00	18.50	0.0000	0	0.00	0.00	24.01	1.00
Future Offsite	Offsite	10yr3d	0.00	13.00	18.50	0.0000	0	0.00	0.00	62.01	1.41
Future Offsite	Offsite	25yr3d	0.00	13.00	18.50	0.0000	0	0.00	0.00	62.01	1.58
NSLRWCD C37	BASE	100yr3d	0.00	7.78	18.50	0.0000	0	0.00	0.00	0.00	0.00
NSLRWCD C37	BASE	10yr1d	20.01	11.94	18.50	0.0243	0	23.67	2.66	0.00	0.00
NSLRWCD C37	BASE	10yr3d	60.00	13.37	18.50	0.0117	0	72.01	3.79	0.00	0.00
NSLRWCD C37	BASE	25yr3d	60.00	13.37	18.50	0.0117	0	68.03	5.20	0.00	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	0.00	7.78	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	0.26	7.96	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	0.50	8.13	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	0.77	8.32	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	1.02	8.49	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	1.27	8.67	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	1.52	8.84	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	1.77	9.02	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	2.02	9.19	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	2.27	9.37	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	2.52	9.54	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	2.77	9.72	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	3.02	9.89	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	3.27	10.07	18.50	0	-0.01	0.00	-0.00	0.00
10yr3d	NSLRWCD C37	BASE	3.52	10.24	18.50	0	-0.10	0.00	-0.00	0.00
10yr3d	NSLRWCD C37	BASE	3.77	10.42	18.50	0	-0.21	0.00	-0.00	0.00
10yr3d	NSLRWCD C37	BASE	4.02	10.58	18.50	0	-0.27	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	4.27	10.60	18.50	0	-0.28	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	4.52	10.63	18.50	0	-0.28	0.00	-0.02	0.00
10yr3d	NSLRWCD C37	BASE	4.77	10.65	18.50	0	-0.29	0.00	-0.03	0.00
10yr3d	NSLRWCD C37	BASE	5.02	10.67	18.50	0	-0.30	0.00	-0.03	0.00
10yr3d	NSLRWCD C37	BASE	5.27	10.70	18.50	0	-0.31	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	5.52	10.72	18.50	0	-0.31	0.00	-0.05	0.00
10yr3d	NSLRWCD C37	BASE	5.77	10.74	18.50	0	-0.32	0.00	-0.05	0.00
10yr3d	NSLRWCD C37	BASE	6.02	10.77	18.50	0	-0.32	0.00	-0.06	0.00
10yr3d	NSLRWCD C37	BASE	6.27	10.79	18.50	0	-0.33	0.00	-0.07	0.00
10yr3d	NSLRWCD C37	BASE	6.52	10.81	18.50	0	-0.34	0.00	-0.07	0.00
10yr3d	NSLRWCD C37	BASE	6.77	10.84	18.50	0	-0.34	0.00	-0.08	0.00
10yr3d	NSLRWCD C37	BASE	7.02	10.86	18.50	0	-0.35	0.00	-0.09	0.00
10yr3d	NSLRWCD C37	BASE	7.27	10.88	18.50	0	-0.35	0.00	-0.09	0.00
10yr3d	NSLRWCD C37	BASE	7.52	10.91	18.50	0	-0.36	0.00	-0.10	0.00
10yr3d	NSLRWCD C37	BASE	7.77	10.93	18.50	0	-0.37	0.00	-0.11	0.00
10yr3d	NSLRWCD C37	BASE	8.02	10.95	18.50	0	-0.37	0.00	-0.12	0.00
10yr3d	NSLRWCD C37	BASE	8.27	11.02	18.50	0	-0.39	0.00	-0.12	0.00
10yr3d	NSLRWCD C37	BASE	8.52	11.09	18.50	0	-0.40	0.00	-0.13	0.00
10yr3d	NSLRWCD C37	BASE	8.77	11.16	18.50	0	-0.42	0.00	-0.14	0.00
10yr3d	NSLRWCD C37	BASE	9.02	11.23	18.50	0	-0.43	0.00	-0.15	0.00
10yr3d	NSLRWCD C37	BASE	9.27	11.30	18.50	0	-0.45	0.00	-0.16	0.00
10yr3d	NSLRWCD C37	BASE	9.52	11.37	18.50	0	-0.46	0.00	-0.17	0.00
10yr3d	NSLRWCD C37	BASE	9.77	11.44	18.50	0	-0.47	0.00	-0.18	0.00
10yr3d	NSLRWCD C37	BASE	10.02	11.51	18.50	0	-0.49	0.00	-0.19	0.00
10yr3d	NSLRWCD C37	BASE	10.27	11.58	18.50	0	-0.50	0.00	-0.20	0.00
10yr3d	NSLRWCD C37	BASE	10.52	11.65	18.50	0	-0.53	0.00	-0.21	0.00
10yr3d	NSLRWCD C37	BASE	10.77	11.72	18.50	0	-0.61	0.00	-0.22	0.00
10yr3d	NSLRWCD C37	BASE	11.02	11.79	18.50	0	-0.70	0.00	-0.23	0.00
10yr3d	NSLRWCD C37	BASE	11.27	11.86	18.50	0	-0.81	0.00	-0.25	0.00
10yr3d	NSLRWCD C37	BASE	11.52	11.93	18.50	0	-0.94	0.00	-0.27	0.00
10yr3d	NSLRWCD C37	BASE	11.77	12.00	18.50	0	-1.07	0.00	-0.29	0.00
10yr3d	NSLRWCD C37	BASE	12.02	12.06	18.50	0	-1.21	0.00	-0.31	0.00
10yr3d	NSLRWCD C37	BASE	12.27	12.01	18.50	0	-1.11	0.00	-0.34	0.00
10yr3d	NSLRWCD C37	BASE	12.52	11.97	18.50	0	-1.02	0.00	-0.36	0.00
10yr3d	NSLRWCD C37	BASE	12.77	11.93	18.50	0	-0.93	0.00	-0.38	0.00
10yr3d	NSLRWCD C37	BASE	13.02	11.88	18.50	0	-0.84	0.00	-0.40	0.00
10yr3d	NSLRWCD C37	BASE	13.27	11.84	18.50	0	-0.76	0.00	-0.41	0.00
10yr3d	NSLRWCD C37	BASE	13.52	11.79	18.50	0	-0.69	0.00	-0.43	0.00
10yr3d	NSLRWCD C37	BASE	13.77	11.75	18.50	0	-0.63	0.00	-0.44	0.00
10yr3d	NSLRWCD C37	BASE	14.02	11.71	18.50	0	-0.57	0.00	-0.45	0.00
10yr3d	NSLRWCD C37	BASE	14.27	11.66	18.50	0	-0.52	0.00	-0.46	0.00
10yr3d	NSLRWCD C37	BASE	14.52	11.62	18.50	0	-0.48	0.00	-0.47	0.00
10yr3d	NSLRWCD C37	BASE	14.77	11.58	18.50	0	-0.47	0.00	-0.48	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	15.02	11.53	18.50	0	-0.46	0.00	-0.49	0.00
10yr3d	NSLRWCD C37	BASE	15.27	11.49	18.50	0	-0.45	0.00	-0.50	0.00
10yr3d	NSLRWCD C37	BASE	15.52	11.44	18.50	0	-0.43	0.00	-0.51	0.00
10yr3d	NSLRWCD C37	BASE	15.77	11.40	18.50	0	-0.42	0.00	-0.52	0.00
10yr3d	NSLRWCD C37	BASE	16.02	11.36	18.50	0	-0.41	0.00	-0.53	0.00
10yr3d	NSLRWCD C37	BASE	16.27	11.32	18.50	0	-0.40	0.00	-0.54	0.00
10yr3d	NSLRWCD C37	BASE	16.52	11.28	18.50	0	-0.39	0.00	-0.55	0.00
10yr3d	NSLRWCD C37	BASE	16.77	11.25	18.50	0	-0.38	0.00	-0.55	0.00
10yr3d	NSLRWCD C37	BASE	17.02	11.21	18.50	0	-0.37	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	17.27	11.17	18.50	0	-0.36	0.00	-0.57	0.00
10yr3d	NSLRWCD C37	BASE	17.52	11.13	18.50	0	-0.35	0.00	-0.58	0.00
10yr3d	NSLRWCD C37	BASE	17.77	11.10	18.50	0	-0.33	0.00	-0.58	0.00
10yr3d	NSLRWCD C37	BASE	18.02	11.06	18.50	0	-0.32	0.00	-0.59	0.00
10yr3d	NSLRWCD C37	BASE	18.27	11.02	18.50	0	-0.31	0.00	-0.60	0.00
10yr3d	NSLRWCD C37	BASE	18.52	10.98	18.50	0	-0.30	0.00	-0.60	0.00
10yr3d	NSLRWCD C37	BASE	18.77	10.95	18.50	0	-0.28	0.00	-0.61	0.00
10yr3d	NSLRWCD C37	BASE	19.02	10.91	18.50	0	-0.27	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	19.27	10.87	18.50	0	-0.25	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	19.52	10.83	18.50	0	-0.23	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	19.77	10.80	18.50	0	-0.21	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	20.02	10.76	18.50	0	-0.19	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	20.27	10.75	18.50	0	-0.18	0.00	-0.64	0.00
10yr3d	NSLRWCD C37	BASE	20.52	10.74	18.50	0	-0.17	0.00	-0.64	0.00
10yr3d	NSLRWCD C37	BASE	20.77	10.73	18.50	0	-0.16	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	21.02	10.71	18.50	0	-0.15	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	21.27	10.70	18.50	0	-0.14	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	21.52	10.69	18.50	0	-0.13	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	21.77	10.68	18.50	0	-0.11	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	22.02	10.67	18.50	0	-0.09	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	22.27	10.66	18.50	0	-0.07	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	22.52	10.65	18.50	0	-0.04	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	22.77	10.64	18.50	0	0.04	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	23.02	10.62	18.50	0	0.07	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	23.27	10.61	18.50	0	0.09	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	23.52	10.60	18.50	0	0.11	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	23.77	10.59	18.50	0	0.12	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	24.02	10.58	18.50	0	0.14	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	24.27	10.59	18.50	0	0.14	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	24.52	10.60	18.50	0	0.14	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	24.77	10.60	18.50	0	0.14	0.00	-0.64	0.00
10yr3d	NSLRWCD C37	BASE	25.02	10.61	18.50	0	0.14	0.00	-0.64	0.00
10yr3d	NSLRWCD C37	BASE	25.27	10.62	18.50	0	0.15	0.00	-0.64	0.00
10yr3d	NSLRWCD C37	BASE	25.52	10.63	18.50	0	0.15	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	25.77	10.63	18.50	0	0.15	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	26.02	10.64	18.50	0	0.15	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	26.27	10.65	18.50	0	0.15	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	26.52	10.66	18.50	0	0.16	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	26.77	10.66	18.50	0	0.16	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	27.02	10.67	18.50	0	0.16	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	27.27	10.68	18.50	0	0.16	0.00	-0.61	0.00
10yr3d	NSLRWCD C37	BASE	27.52	10.69	18.50	0	0.16	0.00	-0.61	0.00
10yr3d	NSLRWCD C37	BASE	27.77	10.69	18.50	0	0.17	0.00	-0.61	0.00
10yr3d	NSLRWCD C37	BASE	28.02	10.70	18.50	0	0.17	0.00	-0.60	0.00
10yr3d	NSLRWCD C37	BASE	28.27	10.72	18.50	0	0.17	0.00	-0.60	0.00
10yr3d	NSLRWCD C37	BASE	28.52	10.73	18.50	0	0.16	0.00	-0.60	0.00
10yr3d	NSLRWCD C37	BASE	28.77	10.75	18.50	0	0.16	0.00	-0.59	0.00
10yr3d	NSLRWCD C37	BASE	29.02	10.77	18.50	0	0.16	0.00	-0.59	0.00
10yr3d	NSLRWCD C37	BASE	29.27	10.78	18.50	0	0.16	0.00	-0.59	0.00
10yr3d	NSLRWCD C37	BASE	29.52	10.80	18.50	0	0.15	0.00	-0.58	0.00
10yr3d	NSLRWCD C37	BASE	29.77	10.81	18.50	0	0.15	0.00	-0.58	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	30.02	10.83	18.50	0	0.15	0.00	-0.58	0.00
10yr3d	NSLRWCD C37	BASE	30.27	10.85	18.50	0	0.14	0.00	-0.57	0.00
10yr3d	NSLRWCD C37	BASE	30.52	10.86	18.50	0	0.14	0.00	-0.57	0.00
10yr3d	NSLRWCD C37	BASE	30.77	10.88	18.50	0	0.14	0.00	-0.57	0.00
10yr3d	NSLRWCD C37	BASE	31.02	10.90	18.50	0	0.14	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	31.27	10.91	18.50	0	0.13	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	31.52	10.93	18.50	0	0.13	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	31.77	10.94	18.50	0	0.13	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	32.02	10.97	18.50	0	0.12	0.00	-0.55	0.00
10yr3d	NSLRWCD C37	BASE	32.27	11.06	18.50	0	0.04	0.00	-0.55	0.00
10yr3d	NSLRWCD C37	BASE	32.52	11.14	18.50	0	-0.11	0.00	-0.55	0.00
10yr3d	NSLRWCD C37	BASE	32.77	11.23	18.50	0	-0.16	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	33.02	11.32	18.50	0	-0.19	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	33.27	11.41	18.50	0	-0.23	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	33.52	11.50	18.50	0	-0.25	0.00	-0.57	0.00
10yr3d	NSLRWCD C37	BASE	33.77	11.59	18.50	0	-0.28	0.00	-0.57	0.00
10yr3d	NSLRWCD C37	BASE	34.02	11.68	18.50	0	-0.35	0.00	-0.58	0.00
10yr3d	NSLRWCD C37	BASE	34.27	11.77	18.50	0	-0.47	0.00	-0.59	0.00
10yr3d	NSLRWCD C37	BASE	34.52	11.86	18.50	0	-0.62	0.00	-0.60	0.00
10yr3d	NSLRWCD C37	BASE	34.77	11.95	18.50	0	-0.79	0.00	-0.61	0.00
10yr3d	NSLRWCD C37	BASE	35.02	12.04	18.50	0	-0.98	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	35.27	12.13	18.50	0	-1.18	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	35.52	12.22	18.50	0	-1.36	0.00	-0.68	0.00
10yr3d	NSLRWCD C37	BASE	35.77	12.31	18.50	0	-1.49	0.00	-0.71	0.00
10yr3d	NSLRWCD C37	BASE	36.02	12.39	18.50	0	-1.59	0.00	-0.74	0.00
10yr3d	NSLRWCD C37	BASE	36.27	12.33	18.50	0	-1.52	0.00	-0.77	0.00
10yr3d	NSLRWCD C37	BASE	36.52	12.28	18.50	0	-1.44	0.00	-0.81	0.00
10yr3d	NSLRWCD C37	BASE	36.77	12.23	18.50	0	-1.35	0.00	-0.83	0.00
10yr3d	NSLRWCD C37	BASE	37.02	12.17	18.50	0	-1.25	0.00	-0.86	0.00
10yr3d	NSLRWCD C37	BASE	37.27	12.12	18.50	0	-1.13	0.00	-0.89	0.00
10yr3d	NSLRWCD C37	BASE	37.52	12.07	18.50	0	-1.00	0.00	-0.91	0.00
10yr3d	NSLRWCD C37	BASE	37.77	12.01	18.50	0	-0.87	0.00	-0.93	0.00
10yr3d	NSLRWCD C37	BASE	38.02	11.96	18.50	0	-0.74	0.00	-0.94	0.00
10yr3d	NSLRWCD C37	BASE	38.27	11.91	18.50	0	-0.62	0.00	-0.96	0.00
10yr3d	NSLRWCD C37	BASE	38.52	11.86	18.50	0	-0.51	0.00	-0.97	0.00
10yr3d	NSLRWCD C37	BASE	38.77	11.80	18.50	0	-0.40	0.00	-0.98	0.00
10yr3d	NSLRWCD C37	BASE	39.02	11.75	18.50	0	-0.30	0.00	-0.99	0.00
10yr3d	NSLRWCD C37	BASE	39.27	11.70	18.50	0	-0.20	0.00	-0.99	0.00
10yr3d	NSLRWCD C37	BASE	39.52	11.64	18.50	0	-0.11	0.00	-0.99	0.00
10yr3d	NSLRWCD C37	BASE	39.77	11.59	18.50	0	0.07	0.00	-0.99	0.00
10yr3d	NSLRWCD C37	BASE	40.02	11.54	18.50	0	0.14	0.00	-0.99	0.00
10yr3d	NSLRWCD C37	BASE	40.27	11.49	18.50	0	0.18	0.00	-0.99	0.00
10yr3d	NSLRWCD C37	BASE	40.52	11.45	18.50	0	0.22	0.00	-0.98	0.00
10yr3d	NSLRWCD C37	BASE	40.77	11.40	18.50	0	0.25	0.00	-0.98	0.00
10yr3d	NSLRWCD C37	BASE	41.02	11.36	18.50	0	0.29	0.00	-0.97	0.00
10yr3d	NSLRWCD C37	BASE	41.27	11.32	18.50	0	0.32	0.00	-0.97	0.00
10yr3d	NSLRWCD C37	BASE	41.52	11.27	18.50	0	0.35	0.00	-0.96	0.00
10yr3d	NSLRWCD C37	BASE	41.77	11.23	18.50	0	0.38	0.00	-0.95	0.00
10yr3d	NSLRWCD C37	BASE	42.02	11.18	18.50	0	0.41	0.00	-0.95	0.00
10yr3d	NSLRWCD C37	BASE	42.27	11.14	18.50	0	0.44	0.00	-0.94	0.00
10yr3d	NSLRWCD C37	BASE	42.52	11.09	18.50	0	0.47	0.00	-0.93	0.00
10yr3d	NSLRWCD C37	BASE	42.77	11.05	18.50	0	0.50	0.00	-0.92	0.00
10yr3d	NSLRWCD C37	BASE	43.02	11.00	18.50	0	0.53	0.00	-0.91	0.00
10yr3d	NSLRWCD C37	BASE	43.27	10.96	18.50	0	0.56	0.00	-0.90	0.00
10yr3d	NSLRWCD C37	BASE	43.52	10.92	18.50	0	0.59	0.00	-0.88	0.00
10yr3d	NSLRWCD C37	BASE	43.77	10.87	18.50	0	0.62	0.00	-0.87	0.00
10yr3d	NSLRWCD C37	BASE	44.02	10.83	18.50	0	0.65	0.00	-0.86	0.00
10yr3d	NSLRWCD C37	BASE	44.27	10.82	18.50	0	0.67	0.00	-0.84	0.00
10yr3d	NSLRWCD C37	BASE	44.52	10.80	18.50	0	0.69	0.00	-0.83	0.00
10yr3d	NSLRWCD C37	BASE	44.77	10.79	18.50	0	0.72	0.00	-0.82	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	45.02	10.77	18.50	0	0.74	0.00	-0.80	0.00
10yr3d	NSLRWCD C37	BASE	45.27	10.76	18.50	0	0.76	0.00	-0.78	0.00
10yr3d	NSLRWCD C37	BASE	45.52	10.75	18.50	0	0.78	0.00	-0.77	0.00
10yr3d	NSLRWCD C37	BASE	45.77	10.73	18.50	0	0.81	0.00	-0.75	0.00
10yr3d	NSLRWCD C37	BASE	46.02	10.72	18.50	0	0.83	0.00	-0.74	0.00
10yr3d	NSLRWCD C37	BASE	46.27	10.71	18.50	0	0.85	0.00	-0.72	0.00
10yr3d	NSLRWCD C37	BASE	46.52	10.69	18.50	0	0.88	0.00	-0.70	0.00
10yr3d	NSLRWCD C37	BASE	46.77	10.68	18.50	0	0.90	0.00	-0.68	0.00
10yr3d	NSLRWCD C37	BASE	47.02	10.66	18.50	0	0.92	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	47.27	10.65	18.50	0	0.95	0.00	-0.64	0.00
10yr3d	NSLRWCD C37	BASE	47.52	10.64	18.50	0	0.97	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	47.77	10.62	18.50	0	0.99	0.00	-0.60	0.00
10yr3d	NSLRWCD C37	BASE	48.02	10.61	18.50	0	1.02	0.00	-0.58	0.00
10yr3d	NSLRWCD C37	BASE	48.27	10.62	18.50	0	1.04	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	48.52	10.64	18.50	0	1.06	0.00	-0.54	0.00
10yr3d	NSLRWCD C37	BASE	48.77	10.65	18.50	0	1.08	0.00	-0.52	0.00
10yr3d	NSLRWCD C37	BASE	49.02	10.67	18.50	0	1.10	0.00	-0.50	0.00
10yr3d	NSLRWCD C37	BASE	49.27	10.68	18.50	0	1.12	0.00	-0.47	0.00
10yr3d	NSLRWCD C37	BASE	49.52	10.69	18.50	0	1.14	0.00	-0.45	0.00
10yr3d	NSLRWCD C37	BASE	49.77	10.71	18.50	0	1.16	0.00	-0.43	0.00
10yr3d	NSLRWCD C37	BASE	50.02	10.72	18.50	0	1.18	0.00	-0.40	0.00
10yr3d	NSLRWCD C37	BASE	50.27	10.73	18.50	0	1.21	0.00	-0.38	0.00
10yr3d	NSLRWCD C37	BASE	50.52	10.75	18.50	0	1.23	0.00	-0.35	0.00
10yr3d	NSLRWCD C37	BASE	50.77	10.76	18.50	0	1.26	0.00	-0.33	0.00
10yr3d	NSLRWCD C37	BASE	51.02	10.78	18.50	0	1.28	0.00	-0.30	0.00
10yr3d	NSLRWCD C37	BASE	51.27	10.79	18.50	0	1.30	0.00	-0.27	0.00
10yr3d	NSLRWCD C37	BASE	51.52	10.80	18.50	0	1.32	0.00	-0.25	0.00
10yr3d	NSLRWCD C37	BASE	51.77	10.82	18.50	0	1.35	0.00	-0.22	0.00
10yr3d	NSLRWCD C37	BASE	52.02	10.83	18.50	0	1.37	0.00	-0.19	0.00
10yr3d	NSLRWCD C37	BASE	52.27	10.86	18.50	0	1.40	0.00	-0.16	0.00
10yr3d	NSLRWCD C37	BASE	52.52	10.88	18.50	0	1.42	0.00	-0.13	0.00
10yr3d	NSLRWCD C37	BASE	52.77	10.91	18.50	0	1.44	0.00	-0.10	0.00
10yr3d	NSLRWCD C37	BASE	53.02	10.93	18.50	0	1.46	0.00	-0.07	0.00
10yr3d	NSLRWCD C37	BASE	53.27	10.96	18.50	0	1.48	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	53.52	10.98	18.50	0	1.51	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	53.77	11.01	18.50	0	1.53	0.00	0.02	0.00
10yr3d	NSLRWCD C37	BASE	54.02	11.03	18.50	0	1.55	0.00	0.05	0.00
10yr3d	NSLRWCD C37	BASE	54.27	11.06	18.50	0	1.58	0.00	0.08	0.00
10yr3d	NSLRWCD C37	BASE	54.52	11.08	18.50	0	1.60	0.00	0.12	0.00
10yr3d	NSLRWCD C37	BASE	54.77	11.11	18.50	0	1.63	0.00	0.15	0.00
10yr3d	NSLRWCD C37	BASE	55.02	11.13	18.50	0	1.65	0.00	0.18	0.00
10yr3d	NSLRWCD C37	BASE	55.27	11.16	18.50	0	1.68	0.00	0.22	0.00
10yr3d	NSLRWCD C37	BASE	55.52	11.18	18.50	0	1.71	0.00	0.25	0.00
10yr3d	NSLRWCD C37	BASE	55.77	11.21	18.50	0	1.73	0.00	0.29	0.00
10yr3d	NSLRWCD C37	BASE	56.02	11.24	18.50	0	1.76	0.00	0.33	0.00
10yr3d	NSLRWCD C37	BASE	56.27	11.37	18.50	0	1.77	0.00	0.36	0.00
10yr3d	NSLRWCD C37	BASE	56.52	11.51	18.50	0	1.78	0.00	0.40	0.00
10yr3d	NSLRWCD C37	BASE	56.77	11.64	18.50	0	1.79	0.00	0.44	0.00
10yr3d	NSLRWCD C37	BASE	57.02	11.77	18.50	0	1.79	0.00	0.47	0.00
10yr3d	NSLRWCD C37	BASE	57.27	11.91	18.50	0	1.74	0.00	0.51	0.00
10yr3d	NSLRWCD C37	BASE	57.52	12.04	18.50	0	1.62	0.00	0.54	0.00
10yr3d	NSLRWCD C37	BASE	57.77	12.17	18.50	0	1.50	0.00	0.58	0.00
10yr3d	NSLRWCD C37	BASE	58.02	12.31	18.50	0	1.37	0.00	0.61	0.00
10yr3d	NSLRWCD C37	BASE	58.27	12.44	18.50	0	1.23	0.00	0.63	0.00
10yr3d	NSLRWCD C37	BASE	58.52	12.58	18.50	0	1.09	0.00	0.66	0.00
10yr3d	NSLRWCD C37	BASE	58.77	12.71	18.50	0	0.93	0.00	0.68	0.00
10yr3d	NSLRWCD C37	BASE	59.02	12.84	18.50	0	0.76	0.00	0.69	0.00
10yr3d	NSLRWCD C37	BASE	59.26	12.98	18.50	0	0.60	0.00	0.71	0.00
10yr3d	NSLRWCD C37	BASE	59.50	13.10	18.50	0	0.45	0.00	0.72	0.00
10yr3d	NSLRWCD C37	BASE	59.75	13.24	18.50	0	0.86	0.00	0.73	0.00

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	60.00	13.37	18.50	0	1.50	0.00	0.76	0.00
10yr3d	NSLRWCD C37	BASE	60.25	13.29	18.50	0	2.08	0.00	0.79	0.00
10yr3d	NSLRWCD C37	BASE	60.50	13.21	18.50	0	2.36	0.00	0.84	0.00
10yr3d	NSLRWCD C37	BASE	60.76	13.13	18.50	0	2.54	0.00	0.89	0.00
10yr3d	NSLRWCD C37	BASE	61.00	13.05	18.50	0	2.65	0.00	0.94	0.00
10yr3d	NSLRWCD C37	BASE	61.25	12.98	18.50	0	2.75	0.00	1.00	0.00
10yr3d	NSLRWCD C37	BASE	61.51	12.90	18.50	0	2.84	0.00	1.06	0.00
10yr3d	NSLRWCD C37	BASE	61.76	12.82	18.50	0	2.92	0.00	1.12	0.00
10yr3d	NSLRWCD C37	BASE	62.01	12.74	18.50	0	2.99	0.00	1.18	0.00
10yr3d	NSLRWCD C37	BASE	62.26	12.66	18.50	0	3.06	0.00	1.24	0.00
10yr3d	NSLRWCD C37	BASE	62.51	12.58	18.50	0	3.13	0.00	1.31	0.00
10yr3d	NSLRWCD C37	BASE	62.76	12.50	18.50	0	3.19	0.00	1.37	0.00
10yr3d	NSLRWCD C37	BASE	63.01	12.42	18.50	0	3.25	0.00	1.44	0.00
10yr3d	NSLRWCD C37	BASE	63.26	12.34	18.50	0	3.31	0.00	1.51	0.00
10yr3d	NSLRWCD C37	BASE	63.51	12.27	18.50	0	3.36	0.00	1.57	0.00
10yr3d	NSLRWCD C37	BASE	63.76	12.19	18.50	0	3.42	0.00	1.64	0.00
10yr3d	NSLRWCD C37	BASE	64.01	12.11	18.50	0	3.47	0.00	1.72	0.00
10yr3d	NSLRWCD C37	BASE	64.26	12.04	18.50	0	3.52	0.00	1.79	0.00
10yr3d	NSLRWCD C37	BASE	64.51	11.97	18.50	0	3.56	0.00	1.86	0.00
10yr3d	NSLRWCD C37	BASE	64.76	11.90	18.50	0	3.60	0.00	1.93	0.00
10yr3d	NSLRWCD C37	BASE	65.01	11.84	18.50	0	3.64	0.00	2.01	0.00
10yr3d	NSLRWCD C37	BASE	65.26	11.77	18.50	0	3.65	0.00	2.08	0.00
10yr3d	NSLRWCD C37	BASE	65.51	11.70	18.50	0	3.67	0.00	2.16	0.00
10yr3d	NSLRWCD C37	BASE	65.76	11.63	18.50	0	3.68	0.00	2.24	0.00
10yr3d	NSLRWCD C37	BASE	66.01	11.56	18.50	0	3.69	0.00	2.31	0.00
10yr3d	NSLRWCD C37	BASE	66.26	11.50	18.50	0	3.70	0.00	2.39	0.00
10yr3d	NSLRWCD C37	BASE	66.51	11.43	18.50	0	3.71	0.00	2.47	0.00
10yr3d	NSLRWCD C37	BASE	66.76	11.36	18.50	0	3.72	0.00	2.54	0.00
10yr3d	NSLRWCD C37	BASE	67.01	11.29	18.50	0	3.73	0.00	2.62	0.00
10yr3d	NSLRWCD C37	BASE	67.26	11.22	18.50	0	3.74	0.00	2.70	0.00
10yr3d	NSLRWCD C37	BASE	67.51	11.15	18.50	0	3.75	0.00	2.77	0.00
10yr3d	NSLRWCD C37	BASE	67.76	11.09	18.50	0	3.76	0.00	2.85	0.00
10yr3d	NSLRWCD C37	BASE	68.01	11.02	18.50	0	3.77	0.00	2.93	0.00
10yr3d	NSLRWCD C37	BASE	68.26	11.00	18.50	0	3.77	0.00	3.01	0.00
10yr3d	NSLRWCD C37	BASE	68.51	10.98	18.50	0	3.77	0.00	3.09	0.00
10yr3d	NSLRWCD C37	BASE	68.76	10.96	18.50	0	3.78	0.00	3.16	0.00
10yr3d	NSLRWCD C37	BASE	69.01	10.94	18.50	0	3.78	0.00	3.24	0.00
10yr3d	NSLRWCD C37	BASE	69.26	10.92	18.50	0	3.78	0.00	3.32	0.00
10yr3d	NSLRWCD C37	BASE	69.51	10.90	18.50	0	3.78	0.00	3.40	0.00
10yr3d	NSLRWCD C37	BASE	69.76	10.88	18.50	0	3.78	0.00	3.48	0.00
10yr3d	NSLRWCD C37	BASE	70.01	10.86	18.50	0	3.78	0.00	3.55	0.00
10yr3d	NSLRWCD C37	BASE	70.26	10.84	18.50	0	3.79	0.00	3.63	0.00
10yr3d	NSLRWCD C37	BASE	70.51	10.82	18.50	0	3.79	0.00	3.71	0.00
10yr3d	NSLRWCD C37	BASE	70.76	10.80	18.50	0	3.79	0.00	3.79	0.00
10yr3d	NSLRWCD C37	BASE	71.01	10.78	18.50	0	3.79	0.00	3.87	0.00
10yr3d	NSLRWCD C37	BASE	71.26	10.76	18.50	0	3.79	0.00	3.94	0.00
10yr3d	NSLRWCD C37	BASE	71.51	10.74	18.50	0	3.79	0.00	4.02	0.00
10yr3d	NSLRWCD C37	BASE	71.76	10.72	18.50	0	3.79	0.00	4.10	0.00
10yr3d	NSLRWCD C37	BASE	72.01	10.70	18.50	0	3.79	0.00	4.18	0.00
10yr3d	NSLRWCD C37	BASE	72.26	10.70	18.50	0	3.79	0.00	4.26	0.00
10yr3d	NSLRWCD C37	BASE	72.51	10.69	18.50	0	3.79	0.00	4.34	0.00
10yr3d	NSLRWCD C37	BASE	72.76	10.69	18.50	0	3.78	0.00	4.41	0.00
10yr3d	NSLRWCD C37	BASE	73.01	10.69	18.50	0	3.78	0.00	4.49	0.00
10yr3d	NSLRWCD C37	BASE	73.26	10.69	18.50	0	3.77	0.00	4.57	0.00
10yr3d	NSLRWCD C37	BASE	73.51	10.68	18.50	0	3.77	0.00	4.65	0.00
10yr3d	NSLRWCD C37	BASE	73.76	10.68	18.50	0	3.76	0.00	4.73	0.00
10yr3d	NSLRWCD C37	BASE	74.01	10.68	18.50	0	3.76	0.00	4.80	0.00
10yr3d	NSLRWCD C37	BASE	74.26	10.68	18.50	0	3.75	0.00	4.88	0.00
10yr3d	NSLRWCD C37	BASE	74.51	10.67	18.50	0	3.75	0.00	4.96	0.00
10yr3d	NSLRWCD C37	BASE	74.76	10.67	18.50	0	3.74	0.00	5.04	0.00

Max Discharge Volume in 24-hrs = 7.27 acft
Less than Allowable 2" over 45 ac = 7.65 acft

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	75.01	10.67	18.50	0	3.74	0.00	5.11	0.00
10yr3d	NSLRWCD C37	BASE	75.26	10.67	18.50	0	3.73	0.00	5.19	0.00
10yr3d	NSLRWCD C37	BASE	75.51	10.66	18.50	0	3.73	0.00	5.27	0.00
10yr3d	NSLRWCD C37	BASE	75.76	10.66	18.50	0	3.72	0.00	5.35	0.00
10yr3d	NSLRWCD C37	BASE	76.01	10.66	18.50	0	3.72	0.00	5.42	0.00
10yr3d	NSLRWCD C37	BASE	76.26	10.66	18.50	0	3.71	0.00	5.50	0.00
10yr3d	NSLRWCD C37	BASE	76.51	10.65	18.50	0	3.71	0.00	5.58	0.00
10yr3d	NSLRWCD C37	BASE	76.76	10.65	18.50	0	3.70	0.00	5.65	0.00
10yr3d	NSLRWCD C37	BASE	77.01	10.65	18.50	0	3.70	0.00	5.73	0.00
10yr3d	NSLRWCD C37	BASE	77.26	10.65	18.50	0	3.69	0.00	5.81	0.00
10yr3d	NSLRWCD C37	BASE	77.51	10.64	18.50	0	3.69	0.00	5.88	0.00
10yr3d	NSLRWCD C37	BASE	77.76	10.64	18.50	0	3.68	0.00	5.96	0.00
10yr3d	NSLRWCD C37	BASE	78.01	10.64	18.50	0	3.68	0.00	6.03	0.00
10yr3d	NSLRWCD C37	BASE	78.26	10.64	18.50	0	3.67	0.00	6.11	0.00
10yr3d	NSLRWCD C37	BASE	78.51	10.63	18.50	0	3.67	0.00	6.19	0.00
10yr3d	NSLRWCD C37	BASE	78.76	10.63	18.50	0	3.66	0.00	6.26	0.00
10yr3d	NSLRWCD C37	BASE	79.01	10.63	18.50	0	3.66	0.00	6.34	0.00
10yr3d	NSLRWCD C37	BASE	79.26	10.63	18.50	0	3.65	0.00	6.41	0.00
10yr3d	NSLRWCD C37	BASE	79.51	10.62	18.50	0	3.65	0.00	6.49	0.00
10yr3d	NSLRWCD C37	BASE	79.76	10.62	18.50	0	3.64	0.00	6.56	0.00
10yr3d	NSLRWCD C37	BASE	80.01	10.62	18.50	0	3.64	0.00	6.64	0.00
10yr3d	NSLRWCD C37	BASE	80.26	10.62	18.50	0	3.63	0.00	6.71	0.00
10yr3d	NSLRWCD C37	BASE	80.51	10.61	18.50	0	3.62	0.00	6.79	0.00
10yr3d	NSLRWCD C37	BASE	80.76	10.61	18.50	0	3.62	0.00	6.86	0.00
10yr3d	NSLRWCD C37	BASE	81.01	10.61	18.50	0	3.61	0.00	6.94	0.00
10yr3d	NSLRWCD C37	BASE	81.26	10.61	18.50	0	3.61	0.00	7.01	0.00
10yr3d	NSLRWCD C37	BASE	81.51	10.60	18.50	0	3.60	0.00	7.09	0.00
10yr3d	NSLRWCD C37	BASE	81.76	10.60	18.50	0	3.60	0.00	7.16	0.00
10yr3d	NSLRWCD C37	BASE	82.01	10.60	18.50	0	3.59	0.00	7.24	0.00
10yr3d	NSLRWCD C37	BASE	82.26	10.60	18.50	0	3.59	0.00	7.31	0.00
10yr3d	NSLRWCD C37	BASE	82.51	10.59	18.50	0	3.58	0.00	7.38	0.00
10yr3d	NSLRWCD C37	BASE	82.76	10.59	18.50	0	3.58	0.00	7.46	0.00
10yr3d	NSLRWCD C37	BASE	83.01	10.59	18.50	0	3.57	0.00	7.53	0.00
10yr3d	NSLRWCD C37	BASE	83.26	10.59	18.50	0	3.56	0.00	7.61	0.00
10yr3d	NSLRWCD C37	BASE	83.51	10.58	18.50	0	3.56	0.00	7.68	0.00
10yr3d	NSLRWCD C37	BASE	83.76	10.58	18.50	0	3.55	0.00	7.75	0.00
10yr3d	NSLRWCD C37	BASE	84.01	10.58	18.50	0	3.55	0.00	7.83	0.00
10yr3d	NSLRWCD C37	BASE	84.26	10.58	18.50	0	3.54	0.00	7.90	0.00
10yr3d	NSLRWCD C37	BASE	84.51	10.57	18.50	0	3.54	0.00	7.97	0.00
10yr3d	NSLRWCD C37	BASE	84.76	10.57	18.50	0	3.53	0.00	8.05	0.00
10yr3d	NSLRWCD C37	BASE	85.01	10.57	18.50	0	3.52	0.00	8.12	0.00
10yr3d	NSLRWCD C37	BASE	85.26	10.57	18.50	0	3.52	0.00	8.19	0.00
10yr3d	NSLRWCD C37	BASE	85.51	10.56	18.50	0	3.51	0.00	8.26	0.00
10yr3d	NSLRWCD C37	BASE	85.76	10.56	18.50	0	3.51	0.00	8.34	0.00
10yr3d	NSLRWCD C37	BASE	86.01	10.56	18.50	0	3.50	0.00	8.41	0.00
10yr3d	NSLRWCD C37	BASE	86.26	10.56	18.50	0	3.50	0.00	8.48	0.00
10yr3d	NSLRWCD C37	BASE	86.51	10.55	18.50	0	3.49	0.00	8.55	0.00
10yr3d	NSLRWCD C37	BASE	86.76	10.55	18.50	0	3.48	0.00	8.62	0.00
10yr3d	NSLRWCD C37	BASE	87.01	10.55	18.50	0	3.48	0.00	8.70	0.00
10yr3d	NSLRWCD C37	BASE	87.26	10.55	18.50	0	3.47	0.00	8.77	0.00
10yr3d	NSLRWCD C37	BASE	87.51	10.54	18.50	0	3.47	0.00	8.84	0.00
10yr3d	NSLRWCD C37	BASE	87.76	10.54	18.50	0	3.46	0.00	8.91	0.00
10yr3d	NSLRWCD C37	BASE	88.01	10.54	18.50	0	3.46	0.00	8.98	0.00
10yr3d	NSLRWCD C37	BASE	88.26	10.54	18.50	0	3.45	0.00	9.05	0.00
10yr3d	NSLRWCD C37	BASE	88.51	10.53	18.50	0	3.44	0.00	9.13	0.00
10yr3d	NSLRWCD C37	BASE	88.76	10.53	18.50	0	3.44	0.00	9.20	0.00
10yr3d	NSLRWCD C37	BASE	89.01	10.53	18.50	0	3.43	0.00	9.27	0.00
10yr3d	NSLRWCD C37	BASE	89.26	10.53	18.50	0	3.43	0.00	9.34	0.00
10yr3d	NSLRWCD C37	BASE	89.51	10.52	18.50	0	3.42	0.00	9.41	0.00
10yr3d	NSLRWCD C37	BASE	89.76	10.52	18.50	0	3.41	0.00	9.48	0.00

Max Discharge Volume in 24-hrs = 7.27 acft
Less than Allowable 2" over 45 ac = 7.65 acft

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	90.01	10.52	18.50	0	3.41	0.00	9.55	0.00
10yr3d	NSLRWCD C37	BASE	90.26	10.51	18.50	0	3.40	0.00	9.62	0.00
10yr3d	NSLRWCD C37	BASE	90.51	10.51	18.50	0	3.40	0.00	9.69	0.00
10yr3d	NSLRWCD C37	BASE	90.76	10.51	18.50	0	3.39	0.00	9.76	0.00
10yr3d	NSLRWCD C37	BASE	91.01	10.51	18.50	0	3.38	0.00	9.83	0.00
10yr3d	NSLRWCD C37	BASE	91.26	10.50	18.50	0	3.38	0.00	9.90	0.00
10yr3d	NSLRWCD C37	BASE	91.51	10.50	18.50	0	3.37	0.00	9.97	0.00
10yr3d	NSLRWCD C37	BASE	91.76	10.50	18.50	0	3.37	0.00	10.04	0.00
10yr3d	NSLRWCD C37	BASE	92.01	10.50	18.50	0	3.36	0.00	10.11	0.00
10yr3d	NSLRWCD C37	BASE	92.26	10.49	18.50	0	3.35	0.00	10.18	0.00
10yr3d	NSLRWCD C37	BASE	92.51	10.49	18.50	0	3.35	0.00	10.25	0.00
10yr3d	NSLRWCD C37	BASE	92.76	10.49	18.50	0	3.34	0.00	10.32	0.00
10yr3d	NSLRWCD C37	BASE	93.01	10.49	18.50	0	3.34	0.00	10.39	0.00
10yr3d	NSLRWCD C37	BASE	93.26	10.48	18.50	0	3.33	0.00	10.46	0.00
10yr3d	NSLRWCD C37	BASE	93.51	10.48	18.50	0	3.32	0.00	10.52	0.00
10yr3d	NSLRWCD C37	BASE	93.76	10.48	18.50	0	3.32	0.00	10.59	0.00
10yr3d	NSLRWCD C37	BASE	94.01	10.48	18.50	0	3.31	0.00	10.66	0.00
10yr3d	NSLRWCD C37	BASE	94.26	10.47	18.50	0	3.31	0.00	10.73	0.00
10yr3d	NSLRWCD C37	BASE	94.51	10.47	18.50	0	3.30	0.00	10.80	0.00
10yr3d	NSLRWCD C37	BASE	94.76	10.47	18.50	0	3.29	0.00	10.87	0.00
10yr3d	NSLRWCD C37	BASE	95.01	10.47	18.50	0	3.29	0.00	10.93	0.00
10yr3d	NSLRWCD C37	BASE	95.26	10.46	18.50	0	3.28	0.00	11.00	0.00
10yr3d	NSLRWCD C37	BASE	95.51	10.46	18.50	0	3.28	0.00	11.07	0.00
10yr3d	NSLRWCD C37	BASE	95.76	10.46	18.50	0	3.27	0.00	11.14	0.00
10yr3d	NSLRWCD C37	BASE	96.01	10.46	18.50	0	3.26	0.00	11.21	0.00
10yr3d	NSLRWCD C37	BASE	96.26	10.45	18.50	0	3.26	0.00	11.27	0.00
10yr3d	NSLRWCD C37	BASE	96.51	10.45	18.50	0	3.25	0.00	11.34	0.00
10yr3d	NSLRWCD C37	BASE	96.76	10.45	18.50	0	3.25	0.00	11.41	0.00
10yr3d	NSLRWCD C37	BASE	97.01	10.45	18.50	0	3.24	0.00	11.47	0.00
10yr3d	NSLRWCD C37	BASE	97.26	10.44	18.50	0	3.23	0.00	11.54	0.00
10yr3d	NSLRWCD C37	BASE	97.51	10.44	18.50	0	3.23	0.00	11.61	0.00
10yr3d	NSLRWCD C37	BASE	97.76	10.44	18.50	0	3.22	0.00	11.67	0.00
10yr3d	NSLRWCD C37	BASE	98.01	10.44	18.50	0	3.22	0.00	11.74	0.00
10yr3d	NSLRWCD C37	BASE	98.26	10.43	18.50	0	3.21	0.00	11.81	0.00
10yr3d	NSLRWCD C37	BASE	98.51	10.43	18.50	0	3.20	0.00	11.87	0.00
10yr3d	NSLRWCD C37	BASE	98.76	10.43	18.50	0	3.20	0.00	11.94	0.00
10yr3d	NSLRWCD C37	BASE	99.01	10.43	18.50	0	3.19	0.00	12.01	0.00
10yr3d	NSLRWCD C37	BASE	99.26	10.42	18.50	0	3.19	0.00	12.07	0.00
10yr3d	NSLRWCD C37	BASE	99.51	10.42	18.50	0	3.18	0.00	12.14	0.00
10yr3d	NSLRWCD C37	BASE	99.76	10.42	18.50	0	3.17	0.00	12.20	0.00
10yr3d	NSLRWCD C37	BASE	100.01	10.42	18.50	0	3.17	0.00	12.27	0.00
10yr3d	NSLRWCD C37	BASE	100.26	10.41	18.50	0	3.16	0.00	12.33	0.00
10yr3d	NSLRWCD C37	BASE	100.51	10.41	18.50	0	3.15	0.00	12.40	0.00
10yr3d	NSLRWCD C37	BASE	100.76	10.41	18.50	0	3.15	0.00	12.46	0.00
10yr3d	NSLRWCD C37	BASE	101.01	10.41	18.50	0	3.14	0.00	12.53	0.00
10yr3d	NSLRWCD C37	BASE	101.26	10.40	18.50	0	3.14	0.00	12.59	0.00
10yr3d	NSLRWCD C37	BASE	101.51	10.40	18.50	0	3.13	0.00	12.66	0.00
10yr3d	NSLRWCD C37	BASE	101.76	10.40	18.50	0	3.12	0.00	12.72	0.00
10yr3d	NSLRWCD C37	BASE	102.01	10.40	18.50	0	3.12	0.00	12.79	0.00
10yr3d	NSLRWCD C37	BASE	102.26	10.39	18.50	0	3.11	0.00	12.85	0.00
10yr3d	NSLRWCD C37	BASE	102.51	10.39	18.50	0	3.11	0.00	12.92	0.00
10yr3d	NSLRWCD C37	BASE	102.76	10.39	18.50	0	3.10	0.00	12.98	0.00
10yr3d	NSLRWCD C37	BASE	103.01	10.39	18.50	0	3.09	0.00	13.04	0.00
10yr3d	NSLRWCD C37	BASE	103.26	10.38	18.50	0	3.09	0.00	13.11	0.00
10yr3d	NSLRWCD C37	BASE	103.51	10.38	18.50	0	3.08	0.00	13.17	0.00
10yr3d	NSLRWCD C37	BASE	103.76	10.38	18.50	0	3.08	0.00	13.24	0.00
10yr3d	NSLRWCD C37	BASE	104.01	10.38	18.50	0	3.07	0.00	13.30	0.00
10yr3d	NSLRWCD C37	BASE	104.26	10.37	18.50	0	3.06	0.00	13.36	0.00
10yr3d	NSLRWCD C37	BASE	104.51	10.37	18.50	0	3.06	0.00	13.43	0.00
10yr3d	NSLRWCD C37	BASE	104.76	10.37	18.50	0	3.05	0.00	13.49	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	105.01	10.37	18.50	0	3.04	0.00	13.55	0.00
10yr3d	NSLRWCD C37	BASE	105.26	10.36	18.50	0	3.04	0.00	13.61	0.00
10yr3d	NSLRWCD C37	BASE	105.51	10.36	18.50	0	3.03	0.00	13.68	0.00
10yr3d	NSLRWCD C37	BASE	105.76	10.36	18.50	0	3.03	0.00	13.74	0.00
10yr3d	NSLRWCD C37	BASE	106.01	10.36	18.50	0	3.02	0.00	13.80	0.00
10yr3d	NSLRWCD C37	BASE	106.26	10.35	18.50	0	3.01	0.00	13.86	0.00
10yr3d	NSLRWCD C37	BASE	106.51	10.35	18.50	0	3.01	0.00	13.93	0.00
10yr3d	NSLRWCD C37	BASE	106.76	10.35	18.50	0	3.00	0.00	13.99	0.00
10yr3d	NSLRWCD C37	BASE	107.01	10.35	18.50	0	2.99	0.00	14.05	0.00
10yr3d	NSLRWCD C37	BASE	107.26	10.34	18.50	0	2.99	0.00	14.11	0.00
10yr3d	NSLRWCD C37	BASE	107.51	10.34	18.50	0	2.98	0.00	14.17	0.00
10yr3d	NSLRWCD C37	BASE	107.76	10.34	18.50	0	2.98	0.00	14.24	0.00
10yr3d	NSLRWCD C37	BASE	108.01	10.33	18.50	0	2.97	0.00	14.30	0.00
10yr3d	NSLRWCD C37	BASE	108.26	10.33	18.50	0	2.96	0.00	14.36	0.00
10yr3d	NSLRWCD C37	BASE	108.51	10.33	18.50	0	2.96	0.00	14.42	0.00
10yr3d	NSLRWCD C37	BASE	108.76	10.33	18.50	0	2.95	0.00	14.48	0.00
10yr3d	NSLRWCD C37	BASE	109.01	10.32	18.50	0	2.94	0.00	14.54	0.00
10yr3d	NSLRWCD C37	BASE	109.26	10.32	18.50	0	2.94	0.00	14.60	0.00
10yr3d	NSLRWCD C37	BASE	109.51	10.32	18.50	0	2.93	0.00	14.66	0.00
10yr3d	NSLRWCD C37	BASE	109.76	10.32	18.50	0	2.93	0.00	14.72	0.00
10yr3d	NSLRWCD C37	BASE	110.01	10.31	18.50	0	2.92	0.00	14.78	0.00
10yr3d	NSLRWCD C37	BASE	110.26	10.31	18.50	0	2.91	0.00	14.84	0.00
10yr3d	NSLRWCD C37	BASE	110.51	10.31	18.50	0	2.91	0.00	14.90	0.00
10yr3d	NSLRWCD C37	BASE	110.76	10.31	18.50	0	2.90	0.00	14.96	0.00
10yr3d	NSLRWCD C37	BASE	111.01	10.30	18.50	0	2.89	0.00	15.02	0.00
10yr3d	NSLRWCD C37	BASE	111.26	10.30	18.50	0	2.89	0.00	15.08	0.00
10yr3d	NSLRWCD C37	BASE	111.51	10.30	18.50	0	2.88	0.00	15.14	0.00
10yr3d	NSLRWCD C37	BASE	111.76	10.30	18.50	0	2.88	0.00	15.20	0.00
10yr3d	NSLRWCD C37	BASE	112.01	10.29	18.50	0	2.87	0.00	15.26	0.00
10yr3d	NSLRWCD C37	BASE	112.26	10.29	18.50	0	2.86	0.00	15.32	0.00
10yr3d	NSLRWCD C37	BASE	112.51	10.29	18.50	0	2.86	0.00	15.38	0.00
10yr3d	NSLRWCD C37	BASE	112.76	10.29	18.50	0	2.85	0.00	15.44	0.00
10yr3d	NSLRWCD C37	BASE	113.01	10.28	18.50	0	2.84	0.00	15.50	0.00
10yr3d	NSLRWCD C37	BASE	113.26	10.28	18.50	0	2.84	0.00	15.56	0.00
10yr3d	NSLRWCD C37	BASE	113.51	10.28	18.50	0	2.83	0.00	15.62	0.00
10yr3d	NSLRWCD C37	BASE	113.76	10.28	18.50	0	2.83	0.00	15.67	0.00
10yr3d	NSLRWCD C37	BASE	114.01	10.27	18.50	0	2.82	0.00	15.73	0.00
10yr3d	NSLRWCD C37	BASE	114.26	10.27	18.50	0	2.81	0.00	15.79	0.00
10yr3d	NSLRWCD C37	BASE	114.51	10.27	18.50	0	2.81	0.00	15.85	0.00
10yr3d	NSLRWCD C37	BASE	114.76	10.27	18.50	0	2.80	0.00	15.91	0.00
10yr3d	NSLRWCD C37	BASE	115.01	10.26	18.50	0	2.79	0.00	15.96	0.00
10yr3d	NSLRWCD C37	BASE	115.26	10.26	18.50	0	2.79	0.00	16.02	0.00
10yr3d	NSLRWCD C37	BASE	115.51	10.26	18.50	0	2.78	0.00	16.08	0.00
10yr3d	NSLRWCD C37	BASE	115.76	10.26	18.50	0	2.78	0.00	16.14	0.00
10yr3d	NSLRWCD C37	BASE	116.01	10.25	18.50	0	2.77	0.00	16.19	0.00
10yr3d	NSLRWCD C37	BASE	116.26	10.25	18.50	0	2.76	0.00	16.25	0.00
10yr3d	NSLRWCD C37	BASE	116.51	10.25	18.50	0	2.76	0.00	16.31	0.00
10yr3d	NSLRWCD C37	BASE	116.76	10.25	18.50	0	2.75	0.00	16.37	0.00
10yr3d	NSLRWCD C37	BASE	117.01	10.24	18.50	0	2.74	0.00	16.42	0.00
10yr3d	NSLRWCD C37	BASE	117.26	10.24	18.50	0	2.74	0.00	16.48	0.00
10yr3d	NSLRWCD C37	BASE	117.51	10.24	18.50	0	2.73	0.00	16.54	0.00
10yr3d	NSLRWCD C37	BASE	117.76	10.24	18.50	0	2.72	0.00	16.59	0.00
10yr3d	NSLRWCD C37	BASE	118.01	10.23	18.50	0	2.72	0.00	16.65	0.00
10yr3d	NSLRWCD C37	BASE	118.26	10.23	18.50	0	2.71	0.00	16.70	0.00
10yr3d	NSLRWCD C37	BASE	118.51	10.23	18.50	0	2.71	0.00	16.76	0.00
10yr3d	NSLRWCD C37	BASE	118.76	10.23	18.50	0	2.70	0.00	16.82	0.00
10yr3d	NSLRWCD C37	BASE	119.01	10.22	18.50	0	2.69	0.00	16.87	0.00
10yr3d	NSLRWCD C37	BASE	119.26	10.22	18.50	0	2.69	0.00	16.93	0.00
10yr3d	NSLRWCD C37	BASE	119.51	10.22	18.50	0	2.68	0.00	16.98	0.00
10yr3d	NSLRWCD C37	BASE	119.76	10.22	18.50	0	2.67	0.00	17.04	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	120.01	10.21	18.50	0	2.67	0.00	17.09	0.00
10yr3d	NSLRWCD C37	BASE	120.26	10.21	18.50	0	2.66	0.00	17.15	0.00
10yr3d	NSLRWCD C37	BASE	120.51	10.21	18.50	0	2.66	0.00	17.20	0.00
10yr3d	NSLRWCD C37	BASE	120.76	10.21	18.50	0	2.65	0.00	17.26	0.00
10yr3d	NSLRWCD C37	BASE	121.01	10.20	18.50	0	2.64	0.00	17.31	0.00
10yr3d	NSLRWCD C37	BASE	121.26	10.20	18.50	0	2.64	0.00	17.37	0.00
10yr3d	NSLRWCD C37	BASE	121.51	10.20	18.50	0	2.63	0.00	17.42	0.00
10yr3d	NSLRWCD C37	BASE	121.76	10.20	18.50	0	2.62	0.00	17.48	0.00
10yr3d	NSLRWCD C37	BASE	122.01	10.19	18.50	0	2.62	0.00	17.53	0.00
10yr3d	NSLRWCD C37	BASE	122.26	10.19	18.50	0	2.61	0.00	17.58	0.00
10yr3d	NSLRWCD C37	BASE	122.51	10.19	18.50	0	2.61	0.00	17.64	0.00
10yr3d	NSLRWCD C37	BASE	122.76	10.19	18.50	0	2.60	0.00	17.69	0.00
10yr3d	NSLRWCD C37	BASE	123.01	10.18	18.50	0	2.59	0.00	17.75	0.00
10yr3d	NSLRWCD C37	BASE	123.26	10.18	18.50	0	2.59	0.00	17.80	0.00
10yr3d	NSLRWCD C37	BASE	123.51	10.18	18.50	0	2.58	0.00	17.85	0.00
10yr3d	NSLRWCD C37	BASE	123.76	10.18	18.50	0	2.57	0.00	17.91	0.00
10yr3d	NSLRWCD C37	BASE	124.01	10.17	18.50	0	2.57	0.00	17.96	0.00
10yr3d	NSLRWCD C37	BASE	124.26	10.17	18.50	0	2.56	0.00	18.01	0.00
10yr3d	NSLRWCD C37	BASE	124.51	10.17	18.50	0	2.56	0.00	18.06	0.00
10yr3d	NSLRWCD C37	BASE	124.76	10.17	18.50	0	2.55	0.00	18.12	0.00
10yr3d	NSLRWCD C37	BASE	125.01	10.16	18.50	0	2.54	0.00	18.17	0.00
10yr3d	NSLRWCD C37	BASE	125.26	10.16	18.50	0	2.54	0.00	18.22	0.00
10yr3d	NSLRWCD C37	BASE	125.51	10.16	18.50	0	2.53	0.00	18.27	0.00
10yr3d	NSLRWCD C37	BASE	125.76	10.15	18.50	0	2.52	0.00	18.33	0.00
10yr3d	NSLRWCD C37	BASE	126.01	10.15	18.50	0	2.52	0.00	18.38	0.00
10yr3d	NSLRWCD C37	BASE	126.26	10.15	18.50	0	2.51	0.00	18.43	0.00
10yr3d	NSLRWCD C37	BASE	126.51	10.15	18.50	0	2.50	0.00	18.48	0.00
10yr3d	NSLRWCD C37	BASE	126.76	10.14	18.50	0	2.50	0.00	18.53	0.00
10yr3d	NSLRWCD C37	BASE	127.01	10.14	18.50	0	2.49	0.00	18.59	0.00
10yr3d	NSLRWCD C37	BASE	127.26	10.14	18.50	0	2.48	0.00	18.64	0.00
10yr3d	NSLRWCD C37	BASE	127.51	10.14	18.50	0	2.48	0.00	18.69	0.00
10yr3d	NSLRWCD C37	BASE	127.76	10.13	18.50	0	2.47	0.00	18.74	0.00
10yr3d	NSLRWCD C37	BASE	128.01	10.13	18.50	0	2.46	0.00	18.79	0.00
10yr3d	NSLRWCD C37	BASE	128.26	10.13	18.50	0	2.46	0.00	18.84	0.00
10yr3d	NSLRWCD C37	BASE	128.51	10.13	18.50	0	2.45	0.00	18.89	0.00
10yr3d	NSLRWCD C37	BASE	128.76	10.12	18.50	0	2.45	0.00	18.94	0.00
10yr3d	NSLRWCD C37	BASE	129.01	10.12	18.50	0	2.44	0.00	18.99	0.00
10yr3d	NSLRWCD C37	BASE	129.26	10.12	18.50	0	2.43	0.00	19.04	0.00
10yr3d	NSLRWCD C37	BASE	129.51	10.12	18.50	0	2.43	0.00	19.09	0.00
10yr3d	NSLRWCD C37	BASE	129.76	10.11	18.50	0	2.42	0.00	19.14	0.00
10yr3d	NSLRWCD C37	BASE	130.01	10.11	18.50	0	2.41	0.00	19.19	0.00
10yr3d	NSLRWCD C37	BASE	130.26	10.11	18.50	0	2.41	0.00	19.24	0.00
10yr3d	NSLRWCD C37	BASE	130.51	10.11	18.50	0	2.40	0.00	19.29	0.00
10yr3d	NSLRWCD C37	BASE	130.76	10.10	18.50	0	2.39	0.00	19.34	0.00
10yr3d	NSLRWCD C37	BASE	131.01	10.10	18.50	0	2.39	0.00	19.39	0.00
10yr3d	NSLRWCD C37	BASE	131.26	10.10	18.50	0	2.38	0.00	19.44	0.00
10yr3d	NSLRWCD C37	BASE	131.51	10.10	18.50	0	2.37	0.00	19.49	0.00
10yr3d	NSLRWCD C37	BASE	131.76	10.09	18.50	0	2.37	0.00	19.54	0.00
10yr3d	NSLRWCD C37	BASE	132.01	10.09	18.50	0	2.36	0.00	19.59	0.00
10yr3d	NSLRWCD C37	BASE	132.26	10.09	18.50	0	2.36	0.00	19.64	0.00
10yr3d	NSLRWCD C37	BASE	132.51	10.09	18.50	0	2.35	0.00	19.69	0.00
10yr3d	NSLRWCD C37	BASE	132.76	10.08	18.50	0	2.34	0.00	19.73	0.00
10yr3d	NSLRWCD C37	BASE	133.01	10.08	18.50	0	2.34	0.00	19.78	0.00
10yr3d	NSLRWCD C37	BASE	133.26	10.08	18.50	0	2.33	0.00	19.83	0.00
10yr3d	NSLRWCD C37	BASE	133.51	10.08	18.50	0	2.32	0.00	19.88	0.00
10yr3d	NSLRWCD C37	BASE	133.76	10.07	18.50	0	2.32	0.00	19.93	0.00
10yr3d	NSLRWCD C37	BASE	134.01	10.07	18.50	0	2.31	0.00	19.97	0.00
10yr3d	NSLRWCD C37	BASE	134.26	10.07	18.50	0	2.30	0.00	20.02	0.00
10yr3d	NSLRWCD C37	BASE	134.51	10.07	18.50	0	2.30	0.00	20.07	0.00
10yr3d	NSLRWCD C37	BASE	134.76	10.06	18.50	0	2.29	0.00	20.12	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	135.01	10.06	18.50	0	2.29	0.00	20.16	0.00
10yr3d	NSLRWCD C37	BASE	135.26	10.06	18.50	0	2.28	0.00	20.21	0.00
10yr3d	NSLRWCD C37	BASE	135.51	10.06	18.50	0	2.27	0.00	20.26	0.00
10yr3d	NSLRWCD C37	BASE	135.76	10.05	18.50	0	2.27	0.00	20.30	0.00
10yr3d	NSLRWCD C37	BASE	136.01	10.05	18.50	0	2.26	0.00	20.35	0.00
10yr3d	NSLRWCD C37	BASE	136.26	10.05	18.50	0	2.25	0.00	20.40	0.00
10yr3d	NSLRWCD C37	BASE	136.51	10.05	18.50	0	2.25	0.00	20.44	0.00
10yr3d	NSLRWCD C37	BASE	136.76	10.04	18.50	0	2.24	0.00	20.49	0.00
10yr3d	NSLRWCD C37	BASE	137.01	10.04	18.50	0	2.23	0.00	20.54	0.00
10yr3d	NSLRWCD C37	BASE	137.26	10.04	18.50	0	2.23	0.00	20.58	0.00
10yr3d	NSLRWCD C37	BASE	137.51	10.04	18.50	0	2.22	0.00	20.63	0.00
10yr3d	NSLRWCD C37	BASE	137.76	10.03	18.50	0	2.22	0.00	20.68	0.00
10yr3d	NSLRWCD C37	BASE	138.01	10.03	18.50	0	2.21	0.00	20.72	0.00
10yr3d	NSLRWCD C37	BASE	138.26	10.03	18.50	0	2.20	0.00	20.77	0.00
10yr3d	NSLRWCD C37	BASE	138.51	10.03	18.50	0	2.20	0.00	20.81	0.00
10yr3d	NSLRWCD C37	BASE	138.76	10.02	18.50	0	2.19	0.00	20.86	0.00
10yr3d	NSLRWCD C37	BASE	139.01	10.02	18.50	0	2.18	0.00	20.90	0.00
10yr3d	NSLRWCD C37	BASE	139.26	10.02	18.50	0	2.18	0.00	20.95	0.00
10yr3d	NSLRWCD C37	BASE	139.51	10.02	18.50	0	2.17	0.00	20.99	0.00
10yr3d	NSLRWCD C37	BASE	139.76	10.01	18.50	0	2.17	0.00	21.04	0.00
10yr3d	NSLRWCD C37	BASE	140.01	10.01	18.50	0	2.16	0.00	21.08	0.00
10yr3d	NSLRWCD C37	BASE	140.26	10.01	18.50	0	2.15	0.00	21.13	0.00
10yr3d	NSLRWCD C37	BASE	140.51	10.01	18.50	0	2.15	0.00	21.17	0.00
10yr3d	NSLRWCD C37	BASE	140.76	10.00	18.50	0	2.14	0.00	21.22	0.00
10yr3d	NSLRWCD C37	BASE	141.01	10.00	18.50	0	2.13	0.00	21.26	0.00
10yr3d	NSLRWCD C37	BASE	141.26	10.00	18.50	0	2.13	0.00	21.30	0.00
10yr3d	NSLRWCD C37	BASE	141.51	10.00	18.50	0	2.12	0.00	21.35	0.00
10yr3d	NSLRWCD C37	BASE	141.76	9.99	18.50	0	2.12	0.00	21.39	0.00
10yr3d	NSLRWCD C37	BASE	142.01	9.99	18.50	0	2.11	0.00	21.43	0.00
10yr3d	NSLRWCD C37	BASE	142.26	9.99	18.50	0	2.10	0.00	21.48	0.00
10yr3d	NSLRWCD C37	BASE	142.51	9.99	18.50	0	2.10	0.00	21.52	0.00
10yr3d	NSLRWCD C37	BASE	142.76	9.98	18.50	0	2.09	0.00	21.57	0.00
10yr3d	NSLRWCD C37	BASE	143.01	9.98	18.50	0	2.09	0.00	21.61	0.00
10yr3d	NSLRWCD C37	BASE	143.26	9.98	18.50	0	2.08	0.00	21.65	0.00
10yr3d	NSLRWCD C37	BASE	143.51	9.98	18.50	0	2.07	0.00	21.69	0.00
10yr3d	NSLRWCD C37	BASE	143.76	9.97	18.50	0	2.07	0.00	21.74	0.00
10yr3d	NSLRWCD C37	BASE	144.01	9.97	18.50	0	2.06	0.00	21.78	0.00
10yr3d	NSLRWCD C37	BASE	144.26	9.97	18.50	0	2.05	0.00	21.82	0.00
10yr3d	NSLRWCD C37	BASE	144.51	9.96	18.50	0	2.05	0.00	21.86	0.00
10yr3d	NSLRWCD C37	BASE	144.76	9.96	18.50	0	2.04	0.00	21.91	0.00
10yr3d	NSLRWCD C37	BASE	145.01	9.96	18.50	0	2.04	0.00	21.95	0.00
10yr3d	NSLRWCD C37	BASE	145.26	9.96	18.50	0	2.03	0.00	21.99	0.00
10yr3d	NSLRWCD C37	BASE	145.51	9.95	18.50	0	2.02	0.00	22.03	0.00
10yr3d	NSLRWCD C37	BASE	145.76	9.95	18.50	0	2.02	0.00	22.07	0.00
10yr3d	NSLRWCD C37	BASE	146.01	9.95	18.50	0	2.01	0.00	22.12	0.00
10yr3d	NSLRWCD C37	BASE	146.26	9.95	18.50	0	2.00	0.00	22.16	0.00
10yr3d	NSLRWCD C37	BASE	146.51	9.94	18.50	0	2.00	0.00	22.20	0.00
10yr3d	NSLRWCD C37	BASE	146.76	9.94	18.50	0	1.99	0.00	22.24	0.00
10yr3d	NSLRWCD C37	BASE	147.01	9.94	18.50	0	1.99	0.00	22.28	0.00
10yr3d	NSLRWCD C37	BASE	147.26	9.94	18.50	0	1.98	0.00	22.32	0.00
10yr3d	NSLRWCD C37	BASE	147.51	9.93	18.50	0	1.97	0.00	22.36	0.00
10yr3d	NSLRWCD C37	BASE	147.76	9.93	18.50	0	1.97	0.00	22.40	0.00
10yr3d	NSLRWCD C37	BASE	148.01	9.93	18.50	0	1.96	0.00	22.44	0.00
10yr3d	NSLRWCD C37	BASE	148.26	9.93	18.50	0	1.96	0.00	22.48	0.00
10yr3d	NSLRWCD C37	BASE	148.51	9.92	18.50	0	1.95	0.00	22.53	0.00
10yr3d	NSLRWCD C37	BASE	148.76	9.92	18.50	0	1.94	0.00	22.57	0.00
10yr3d	NSLRWCD C37	BASE	149.01	9.92	18.50	0	1.94	0.00	22.61	0.00
10yr3d	NSLRWCD C37	BASE	149.26	9.92	18.50	0	1.93	0.00	22.65	0.00
10yr3d	NSLRWCD C37	BASE	149.51	9.91	18.50	0	1.92	0.00	22.69	0.00
10yr3d	NSLRWCD C37	BASE	149.76	9.91	18.50	0	1.92	0.00	22.72	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	150.01	9.91	18.50	0	1.91	0.00	22.76	0.00
10yr3d	NSLRWCD C37	BASE	150.26	9.91	18.50	0	1.91	0.00	22.80	0.00
10yr3d	NSLRWCD C37	BASE	150.51	9.90	18.50	0	1.90	0.00	22.84	0.00
10yr3d	NSLRWCD C37	BASE	150.76	9.90	18.50	0	1.89	0.00	22.88	0.00
10yr3d	NSLRWCD C37	BASE	151.01	9.90	18.50	0	1.89	0.00	22.92	0.00
10yr3d	NSLRWCD C37	BASE	151.26	9.90	18.50	0	1.88	0.00	22.96	0.00
10yr3d	NSLRWCD C37	BASE	151.51	9.89	18.50	0	1.88	0.00	23.00	0.00
10yr3d	NSLRWCD C37	BASE	151.76	9.89	18.50	0	1.87	0.00	23.04	0.00
10yr3d	NSLRWCD C37	BASE	152.01	9.89	18.50	0	1.86	0.00	23.08	0.00
10yr3d	NSLRWCD C37	BASE	152.26	9.89	18.50	0	1.86	0.00	23.11	0.00
10yr3d	NSLRWCD C37	BASE	152.51	9.88	18.50	0	1.85	0.00	23.15	0.00
10yr3d	NSLRWCD C37	BASE	152.76	9.88	18.50	0	1.85	0.00	23.19	0.00
10yr3d	NSLRWCD C37	BASE	153.01	9.88	18.50	0	1.84	0.00	23.23	0.00
10yr3d	NSLRWCD C37	BASE	153.26	9.88	18.50	0	1.83	0.00	23.27	0.00
10yr3d	NSLRWCD C37	BASE	153.51	9.87	18.50	0	1.83	0.00	23.31	0.00
10yr3d	NSLRWCD C37	BASE	153.76	9.87	18.50	0	1.82	0.00	23.34	0.00
10yr3d	NSLRWCD C37	BASE	154.01	9.87	18.50	0	1.82	0.00	23.38	0.00
10yr3d	NSLRWCD C37	BASE	154.26	9.87	18.50	0	1.81	0.00	23.42	0.00
10yr3d	NSLRWCD C37	BASE	154.51	9.86	18.50	0	1.80	0.00	23.46	0.00
10yr3d	NSLRWCD C37	BASE	154.76	9.86	18.50	0	1.80	0.00	23.49	0.00
10yr3d	NSLRWCD C37	BASE	155.01	9.86	18.50	0	1.79	0.00	23.53	0.00
10yr3d	NSLRWCD C37	BASE	155.26	9.86	18.50	0	1.79	0.00	23.57	0.00
10yr3d	NSLRWCD C37	BASE	155.51	9.85	18.50	0	1.78	0.00	23.60	0.00
10yr3d	NSLRWCD C37	BASE	155.76	9.85	18.50	0	1.77	0.00	23.64	0.00
10yr3d	NSLRWCD C37	BASE	156.01	9.85	18.50	0	1.77	0.00	23.68	0.00
10yr3d	NSLRWCD C37	BASE	156.26	9.85	18.50	0	1.76	0.00	23.71	0.00
10yr3d	NSLRWCD C37	BASE	156.51	9.84	18.50	0	1.76	0.00	23.75	0.00
10yr3d	NSLRWCD C37	BASE	156.76	9.84	18.50	0	1.75	0.00	23.79	0.00
10yr3d	NSLRWCD C37	BASE	157.01	9.84	18.50	0	1.74	0.00	23.82	0.00
10yr3d	NSLRWCD C37	BASE	157.26	9.84	18.50	0	1.74	0.00	23.86	0.00
10yr3d	NSLRWCD C37	BASE	157.51	9.83	18.50	0	1.73	0.00	23.89	0.00
10yr3d	NSLRWCD C37	BASE	157.76	9.83	18.50	0	1.73	0.00	23.93	0.00
10yr3d	NSLRWCD C37	BASE	158.01	9.83	18.50	0	1.72	0.00	23.97	0.00
10yr3d	NSLRWCD C37	BASE	158.26	9.83	18.50	0	1.72	0.00	24.00	0.00
10yr3d	NSLRWCD C37	BASE	158.51	9.82	18.50	0	1.71	0.00	24.04	0.00
10yr3d	NSLRWCD C37	BASE	158.76	9.82	18.50	0	1.70	0.00	24.07	0.00
10yr3d	NSLRWCD C37	BASE	159.01	9.82	18.50	0	1.70	0.00	24.11	0.00
10yr3d	NSLRWCD C37	BASE	159.26	9.82	18.50	0	1.69	0.00	24.14	0.00
10yr3d	NSLRWCD C37	BASE	159.51	9.81	18.50	0	1.69	0.00	24.18	0.00
10yr3d	NSLRWCD C37	BASE	159.76	9.81	18.50	0	1.68	0.00	24.21	0.00
10yr3d	NSLRWCD C37	BASE	160.01	9.81	18.50	0	1.67	0.00	24.25	0.00
10yr3d	NSLRWCD C37	BASE	160.26	9.81	18.50	0	1.67	0.00	24.28	0.00
10yr3d	NSLRWCD C37	BASE	160.51	9.80	18.50	0	1.66	0.00	24.31	0.00
10yr3d	NSLRWCD C37	BASE	160.76	9.80	18.50	0	1.66	0.00	24.35	0.00
10yr3d	NSLRWCD C37	BASE	161.01	9.80	18.50	0	1.65	0.00	24.38	0.00
10yr3d	NSLRWCD C37	BASE	161.26	9.80	18.50	0	1.65	0.00	24.42	0.00
10yr3d	NSLRWCD C37	BASE	161.51	9.79	18.50	0	1.64	0.00	24.45	0.00
10yr3d	NSLRWCD C37	BASE	161.76	9.79	18.50	0	1.63	0.00	24.49	0.00
10yr3d	NSLRWCD C37	BASE	162.01	9.79	18.50	0	1.63	0.00	24.52	0.00
10yr3d	NSLRWCD C37	BASE	162.26	9.78	18.50	0	1.62	0.00	24.55	0.00
10yr3d	NSLRWCD C37	BASE	162.51	9.78	18.50	0	1.62	0.00	24.59	0.00
10yr3d	NSLRWCD C37	BASE	162.76	9.78	18.50	0	1.61	0.00	24.62	0.00
10yr3d	NSLRWCD C37	BASE	163.01	9.78	18.50	0	1.61	0.00	24.65	0.00
10yr3d	NSLRWCD C37	BASE	163.26	9.77	18.50	0	1.60	0.00	24.69	0.00
10yr3d	NSLRWCD C37	BASE	163.51	9.77	18.50	0	1.60	0.00	24.72	0.00
10yr3d	NSLRWCD C37	BASE	163.76	9.77	18.50	0	1.59	0.00	24.75	0.00
10yr3d	NSLRWCD C37	BASE	164.01	9.77	18.50	0	1.58	0.00	24.78	0.00
10yr3d	NSLRWCD C37	BASE	164.26	9.76	18.50	0	1.58	0.00	24.82	0.00
10yr3d	NSLRWCD C37	BASE	164.51	9.76	18.50	0	1.57	0.00	24.85	0.00
10yr3d	NSLRWCD C37	BASE	164.76	9.76	18.50	0	1.57	0.00	24.88	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	165.01	9.76	18.50	0	1.56	0.00	24.91	0.00
10yr3d	NSLRWCD C37	BASE	165.26	9.75	18.50	0	1.56	0.00	24.95	0.00
10yr3d	NSLRWCD C37	BASE	165.51	9.75	18.50	0	1.55	0.00	24.98	0.00
10yr3d	NSLRWCD C37	BASE	165.76	9.75	18.50	0	1.54	0.00	25.01	0.00
10yr3d	NSLRWCD C37	BASE	166.01	9.75	18.50	0	1.54	0.00	25.04	0.00
10yr3d	NSLRWCD C37	BASE	166.26	9.74	18.50	0	1.53	0.00	25.07	0.00
10yr3d	NSLRWCD C37	BASE	166.51	9.74	18.50	0	1.52	0.00	25.11	0.00
10yr3d	NSLRWCD C37	BASE	166.76	9.74	18.50	0	1.51	0.00	25.14	0.00
10yr3d	NSLRWCD C37	BASE	167.01	9.74	18.50	0	1.51	0.00	25.17	0.00
10yr3d	NSLRWCD C37	BASE	167.26	9.73	18.50	0	1.50	0.00	25.20	0.00
10yr3d	NSLRWCD C37	BASE	167.51	9.73	18.50	0	1.49	0.00	25.23	0.00
10yr3d	NSLRWCD C37	BASE	167.76	9.73	18.50	0	1.48	0.00	25.26	0.00
10yr3d	NSLRWCD C37	BASE	168.01	9.73	18.50	0	1.48	0.00	25.29	0.00
10yr3d	NSLRWCD C37	BASE	168.26	9.72	18.50	0	1.47	0.00	25.32	0.00
10yr3d	NSLRWCD C37	BASE	168.51	9.72	18.50	0	1.46	0.00	25.35	0.00
10yr3d	NSLRWCD C37	BASE	168.76	9.72	18.50	0	1.46	0.00	25.38	0.00
10yr3d	NSLRWCD C37	BASE	169.01	9.72	18.50	0	1.45	0.00	25.41	0.00
10yr3d	NSLRWCD C37	BASE	169.26	9.71	18.50	0	1.44	0.00	25.44	0.00
10yr3d	NSLRWCD C37	BASE	169.51	9.71	18.50	0	1.44	0.00	25.47	0.00
10yr3d	NSLRWCD C37	BASE	169.76	9.71	18.50	0	1.43	0.00	25.50	0.00
10yr3d	NSLRWCD C37	BASE	170.01	9.71	18.50	0	1.42	0.00	25.53	0.00
10yr3d	NSLRWCD C37	BASE	170.26	9.70	18.50	0	1.42	0.00	25.56	0.00
10yr3d	NSLRWCD C37	BASE	170.51	9.70	18.50	0	1.41	0.00	25.59	0.00
10yr3d	NSLRWCD C37	BASE	170.76	9.70	18.50	0	1.40	0.00	25.62	0.00
10yr3d	NSLRWCD C37	BASE	171.01	9.70	18.50	0	1.40	0.00	25.65	0.00
10yr3d	NSLRWCD C37	BASE	171.26	9.69	18.50	0	1.39	0.00	25.68	0.00
10yr3d	NSLRWCD C37	BASE	171.51	9.69	18.50	0	1.39	0.00	25.71	0.00
10yr3d	NSLRWCD C37	BASE	171.76	9.69	18.50	0	1.38	0.00	25.73	0.00
10yr3d	NSLRWCD C37	BASE	172.01	9.69	18.50	0	1.37	0.00	25.76	0.00
10yr3d	NSLRWCD C37	BASE	172.26	9.68	18.50	0	1.37	0.00	25.79	0.00
10yr3d	NSLRWCD C37	BASE	172.51	9.68	18.50	0	1.36	0.00	25.82	0.00
10yr3d	NSLRWCD C37	BASE	172.76	9.68	18.50	0	1.36	0.00	25.85	0.00
10yr3d	NSLRWCD C37	BASE	173.01	9.68	18.50	0	1.35	0.00	25.87	0.00
10yr3d	NSLRWCD C37	BASE	173.26	9.67	18.50	0	1.34	0.00	25.90	0.00
10yr3d	NSLRWCD C37	BASE	173.51	9.67	18.50	0	1.34	0.00	25.93	0.00
10yr3d	NSLRWCD C37	BASE	173.76	9.67	18.50	0	1.33	0.00	25.96	0.00
10yr3d	NSLRWCD C37	BASE	174.01	9.67	18.50	0	1.33	0.00	25.99	0.00
10yr3d	NSLRWCD C37	BASE	174.26	9.66	18.50	0	1.32	0.00	26.01	0.00
10yr3d	NSLRWCD C37	BASE	174.51	9.66	18.50	0	1.31	0.00	26.04	0.00
10yr3d	NSLRWCD C37	BASE	174.76	9.66	18.50	0	1.31	0.00	26.07	0.00
10yr3d	NSLRWCD C37	BASE	175.01	9.66	18.50	0	1.30	0.00	26.09	0.00
10yr3d	NSLRWCD C37	BASE	175.26	9.65	18.50	0	1.30	0.00	26.12	0.00
10yr3d	NSLRWCD C37	BASE	175.51	9.65	18.50	0	1.29	0.00	26.15	0.00
10yr3d	NSLRWCD C37	BASE	175.76	9.65	18.50	0	1.28	0.00	26.17	0.00
10yr3d	NSLRWCD C37	BASE	176.01	9.65	18.50	0	1.28	0.00	26.20	0.00
10yr3d	NSLRWCD C37	BASE	176.26	9.64	18.50	0	1.27	0.00	26.23	0.00
10yr3d	NSLRWCD C37	BASE	176.51	9.64	18.50	0	1.27	0.00	26.25	0.00
10yr3d	NSLRWCD C37	BASE	176.76	9.64	18.50	0	1.26	0.00	26.28	0.00
10yr3d	NSLRWCD C37	BASE	177.01	9.64	18.50	0	1.26	0.00	26.31	0.00
10yr3d	NSLRWCD C37	BASE	177.26	9.63	18.50	0	1.25	0.00	26.33	0.00
10yr3d	NSLRWCD C37	BASE	177.51	9.63	18.50	0	1.25	0.00	26.36	0.00
10yr3d	NSLRWCD C37	BASE	177.76	9.63	18.50	0	1.24	0.00	26.38	0.00
10yr3d	NSLRWCD C37	BASE	178.01	9.63	18.50	0	1.24	0.00	26.41	0.00
10yr3d	NSLRWCD C37	BASE	178.26	9.62	18.50	0	1.23	0.00	26.43	0.00
10yr3d	NSLRWCD C37	BASE	178.51	9.62	18.50	0	1.22	0.00	26.46	0.00
10yr3d	NSLRWCD C37	BASE	178.76	9.62	18.50	0	1.22	0.00	26.48	0.00
10yr3d	NSLRWCD C37	BASE	179.01	9.62	18.50	0	1.22	0.00	26.51	0.00
10yr3d	NSLRWCD C37	BASE	179.26	9.61	18.50	0	1.21	0.00	26.53	0.00
10yr3d	NSLRWCD C37	BASE	179.51	9.61	18.50	0	1.21	0.00	26.56	0.00
10yr3d	NSLRWCD C37	BASE	179.76	9.61	18.50	0	1.20	0.00	26.58	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	180.01	9.60	18.50	0	1.20	0.00	26.61	0.00
10yr3d	NSLRWCD C37	BASE	180.26	9.60	18.50	0	1.19	0.00	26.63	0.00
10yr3d	NSLRWCD C37	BASE	180.51	9.60	18.50	0	1.19	0.00	26.66	0.00
10yr3d	NSLRWCD C37	BASE	180.76	9.60	18.50	0	1.18	0.00	26.68	0.00
10yr3d	NSLRWCD C37	BASE	181.01	9.59	18.50	0	1.18	0.00	26.71	0.00
10yr3d	NSLRWCD C37	BASE	181.26	9.59	18.50	0	1.17	0.00	26.73	0.00
10yr3d	NSLRWCD C37	BASE	181.51	9.59	18.50	0	1.17	0.00	26.76	0.00
10yr3d	NSLRWCD C37	BASE	181.76	9.59	18.50	0	1.16	0.00	26.78	0.00
10yr3d	NSLRWCD C37	BASE	182.01	9.58	18.50	0	1.16	0.00	26.80	0.00
10yr3d	NSLRWCD C37	BASE	182.26	9.58	18.50	0	1.16	0.00	26.83	0.00
10yr3d	NSLRWCD C37	BASE	182.51	9.58	18.50	0	1.15	0.00	26.85	0.00
10yr3d	NSLRWCD C37	BASE	182.76	9.58	18.50	0	1.15	0.00	26.88	0.00
10yr3d	NSLRWCD C37	BASE	183.01	9.57	18.50	0	1.14	0.00	26.90	0.00
10yr3d	NSLRWCD C37	BASE	183.26	9.57	18.50	0	1.14	0.00	26.92	0.00
10yr3d	NSLRWCD C37	BASE	183.51	9.57	18.50	0	1.14	0.00	26.95	0.00
10yr3d	NSLRWCD C37	BASE	183.76	9.57	18.50	0	1.13	0.00	26.97	0.00
10yr3d	NSLRWCD C37	BASE	184.01	9.56	18.50	0	1.13	0.00	26.99	0.00
10yr3d	NSLRWCD C37	BASE	184.26	9.56	18.50	0	1.12	0.00	27.02	0.00
10yr3d	NSLRWCD C37	BASE	184.51	9.56	18.50	0	1.12	0.00	27.04	0.00
10yr3d	NSLRWCD C37	BASE	184.76	9.56	18.50	0	1.12	0.00	27.06	0.00
10yr3d	NSLRWCD C37	BASE	185.01	9.55	18.50	0	1.11	0.00	27.09	0.00
10yr3d	NSLRWCD C37	BASE	185.26	9.55	18.50	0	1.11	0.00	27.11	0.00
10yr3d	NSLRWCD C37	BASE	185.51	9.55	18.50	0	1.11	0.00	27.13	0.00
10yr3d	NSLRWCD C37	BASE	185.76	9.55	18.50	0	1.10	0.00	27.15	0.00
10yr3d	NSLRWCD C37	BASE	186.01	9.54	18.50	0	1.10	0.00	27.18	0.00
10yr3d	NSLRWCD C37	BASE	186.26	9.54	18.50	0	1.10	0.00	27.20	0.00
10yr3d	NSLRWCD C37	BASE	186.51	9.54	18.50	0	1.09	0.00	27.22	0.00
10yr3d	NSLRWCD C37	BASE	186.76	9.54	18.50	0	1.09	0.00	27.24	0.00
10yr3d	NSLRWCD C37	BASE	187.01	9.53	18.50	0	1.08	0.00	27.27	0.00
10yr3d	NSLRWCD C37	BASE	187.26	9.53	18.50	0	1.08	0.00	27.29	0.00
10yr3d	NSLRWCD C37	BASE	187.51	9.53	18.50	0	1.08	0.00	27.31	0.00
10yr3d	NSLRWCD C37	BASE	187.76	9.53	18.50	0	1.07	0.00	27.33	0.00
10yr3d	NSLRWCD C37	BASE	188.01	9.52	18.50	0	1.07	0.00	27.36	0.00
10yr3d	NSLRWCD C37	BASE	188.26	9.52	18.50	0	1.07	0.00	27.38	0.00
10yr3d	NSLRWCD C37	BASE	188.51	9.52	18.50	0	1.07	0.00	27.40	0.00
10yr3d	NSLRWCD C37	BASE	188.76	9.52	18.50	0	1.06	0.00	27.42	0.00
10yr3d	NSLRWCD C37	BASE	189.01	9.51	18.50	0	1.06	0.00	27.44	0.00
10yr3d	NSLRWCD C37	BASE	189.26	9.51	18.50	0	1.06	0.00	27.47	0.00
10yr3d	NSLRWCD C37	BASE	189.51	9.51	18.50	0	1.05	0.00	27.49	0.00
10yr3d	NSLRWCD C37	BASE	189.76	9.51	18.50	0	1.05	0.00	27.51	0.00
10yr3d	NSLRWCD C37	BASE	190.01	9.50	18.50	0	1.05	0.00	27.53	0.00
10yr3d	NSLRWCD C37	BASE	190.26	9.50	18.50	0	1.04	0.00	27.55	0.00
10yr3d	NSLRWCD C37	BASE	190.51	9.50	18.50	0	1.04	0.00	27.57	0.00
10yr3d	NSLRWCD C37	BASE	190.76	9.50	18.50	0	1.04	0.00	27.60	0.00
10yr3d	NSLRWCD C37	BASE	191.01	9.49	18.50	0	1.03	0.00	27.62	0.00
10yr3d	NSLRWCD C37	BASE	191.26	9.49	18.50	0	1.03	0.00	27.64	0.00
10yr3d	NSLRWCD C37	BASE	191.51	9.49	18.50	0	1.03	0.00	27.66	0.00
10yr3d	NSLRWCD C37	BASE	191.76	9.49	18.50	0	1.03	0.00	27.68	0.00
10yr3d	NSLRWCD C37	BASE	192.01	9.48	18.50	0	1.02	0.00	27.70	0.00
10yr3d	NSLRWCD C37	BASE	192.26	9.48	18.50	0	1.02	0.00	27.72	0.00
10yr3d	NSLRWCD C37	BASE	192.51	9.48	18.50	0	1.02	0.00	27.74	0.00
10yr3d	NSLRWCD C37	BASE	192.76	9.48	18.50	0	1.01	0.00	27.77	0.00
10yr3d	NSLRWCD C37	BASE	193.01	9.47	18.50	0	1.01	0.00	27.79	0.00
10yr3d	NSLRWCD C37	BASE	193.26	9.47	18.50	0	1.01	0.00	27.81	0.00
10yr3d	NSLRWCD C37	BASE	193.51	9.47	18.50	0	1.01	0.00	27.83	0.00
10yr3d	NSLRWCD C37	BASE	193.76	9.47	18.50	0	1.00	0.00	27.85	0.00
10yr3d	NSLRWCD C37	BASE	194.01	9.46	18.50	0	1.00	0.00	27.87	0.00
10yr3d	NSLRWCD C37	BASE	194.26	9.46	18.50	0	1.00	0.00	27.89	0.00
10yr3d	NSLRWCD C37	BASE	194.51	9.46	18.50	0	1.00	0.00	27.91	0.00
10yr3d	NSLRWCD C37	BASE	194.76	9.46	18.50	0	0.99	0.00	27.93	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	195.01	9.45	18.50	0	0.99	0.00	27.95	0.00
10yr3d	NSLRWCD C37	BASE	195.26	9.45	18.50	0	0.99	0.00	27.97	0.00
10yr3d	NSLRWCD C37	BASE	195.51	9.45	18.50	0	0.99	0.00	27.99	0.00
10yr3d	NSLRWCD C37	BASE	195.76	9.45	18.50	0	0.98	0.00	28.01	0.00
10yr3d	NSLRWCD C37	BASE	196.01	9.44	18.50	0	0.98	0.00	28.03	0.00
10yr3d	NSLRWCD C37	BASE	196.26	9.44	18.50	0	0.98	0.00	28.05	0.00
10yr3d	NSLRWCD C37	BASE	196.51	9.44	18.50	0	0.98	0.00	28.07	0.00
10yr3d	NSLRWCD C37	BASE	196.76	9.44	18.50	0	0.97	0.00	28.09	0.00
10yr3d	NSLRWCD C37	BASE	197.01	9.43	18.50	0	0.97	0.00	28.11	0.00
10yr3d	NSLRWCD C37	BASE	197.26	9.43	18.50	0	0.97	0.00	28.13	0.00
10yr3d	NSLRWCD C37	BASE	197.51	9.43	18.50	0	0.97	0.00	28.15	0.00
10yr3d	NSLRWCD C37	BASE	197.76	9.42	18.50	0	0.96	0.00	28.17	0.00
10yr3d	NSLRWCD C37	BASE	198.01	9.42	18.50	0	0.96	0.00	28.19	0.00
10yr3d	NSLRWCD C37	BASE	198.26	9.42	18.50	0	0.96	0.00	28.21	0.00
10yr3d	NSLRWCD C37	BASE	198.51	9.42	18.50	0	0.96	0.00	28.23	0.00
10yr3d	NSLRWCD C37	BASE	198.76	9.41	18.50	0	0.95	0.00	28.25	0.00
10yr3d	NSLRWCD C37	BASE	199.01	9.41	18.50	0	0.95	0.00	28.27	0.00
10yr3d	NSLRWCD C37	BASE	199.26	9.41	18.50	0	0.95	0.00	28.29	0.00
10yr3d	NSLRWCD C37	BASE	199.51	9.41	18.50	0	0.95	0.00	28.31	0.00
10yr3d	NSLRWCD C37	BASE	199.76	9.40	18.50	0	0.95	0.00	28.33	0.00
10yr3d	NSLRWCD C37	BASE	200.01	9.40	18.50	0	0.94	0.00	28.35	0.00
10yr3d	NSLRWCD C37	BASE	200.26	9.40	18.50	0	0.94	0.00	28.37	0.00
10yr3d	NSLRWCD C37	BASE	200.51	9.40	18.50	0	0.94	0.00	28.39	0.00
10yr3d	NSLRWCD C37	BASE	200.76	9.39	18.50	0	0.94	0.00	28.41	0.00
10yr3d	NSLRWCD C37	BASE	201.01	9.39	18.50	0	0.93	0.00	28.43	0.00
10yr3d	NSLRWCD C37	BASE	201.26	9.39	18.50	0	0.93	0.00	28.45	0.00
10yr3d	NSLRWCD C37	BASE	201.51	9.39	18.50	0	0.93	0.00	28.47	0.00
10yr3d	NSLRWCD C37	BASE	201.76	9.38	18.50	0	0.93	0.00	28.49	0.00
10yr3d	NSLRWCD C37	BASE	202.01	9.38	18.50	0	0.93	0.00	28.51	0.00
10yr3d	NSLRWCD C37	BASE	202.26	9.38	18.50	0	0.92	0.00	28.53	0.00
10yr3d	NSLRWCD C37	BASE	202.51	9.38	18.50	0	0.92	0.00	28.54	0.00
10yr3d	NSLRWCD C37	BASE	202.76	9.37	18.50	0	0.92	0.00	28.56	0.00
10yr3d	NSLRWCD C37	BASE	203.01	9.37	18.50	0	0.92	0.00	28.58	0.00
10yr3d	NSLRWCD C37	BASE	203.26	9.37	18.50	0	0.92	0.00	28.60	0.00
10yr3d	NSLRWCD C37	BASE	203.51	9.37	18.50	0	0.91	0.00	28.62	0.00
10yr3d	NSLRWCD C37	BASE	203.76	9.36	18.50	0	0.91	0.00	28.64	0.00
10yr3d	NSLRWCD C37	BASE	204.01	9.36	18.50	0	0.91	0.00	28.66	0.00
10yr3d	NSLRWCD C37	BASE	204.26	9.36	18.50	0	0.91	0.00	28.68	0.00
10yr3d	NSLRWCD C37	BASE	204.51	9.36	18.50	0	0.91	0.00	28.70	0.00
10yr3d	NSLRWCD C37	BASE	204.76	9.35	18.50	0	0.90	0.00	28.71	0.00
10yr3d	NSLRWCD C37	BASE	205.01	9.35	18.50	0	0.90	0.00	28.73	0.00
10yr3d	NSLRWCD C37	BASE	205.26	9.35	18.50	0	0.90	0.00	28.75	0.00
10yr3d	NSLRWCD C37	BASE	205.51	9.35	18.50	0	0.90	0.00	28.77	0.00
10yr3d	NSLRWCD C37	BASE	205.76	9.34	18.50	0	0.90	0.00	28.79	0.00
10yr3d	NSLRWCD C37	BASE	206.01	9.34	18.50	0	0.89	0.00	28.81	0.00
10yr3d	NSLRWCD C37	BASE	206.26	9.34	18.50	0	0.89	0.00	28.83	0.00
10yr3d	NSLRWCD C37	BASE	206.51	9.34	18.50	0	0.89	0.00	28.84	0.00
10yr3d	NSLRWCD C37	BASE	206.76	9.33	18.50	0	0.89	0.00	28.86	0.00
10yr3d	NSLRWCD C37	BASE	207.01	9.33	18.50	0	0.89	0.00	28.88	0.00
10yr3d	NSLRWCD C37	BASE	207.26	9.33	18.50	0	0.89	0.00	28.90	0.00
10yr3d	NSLRWCD C37	BASE	207.51	9.33	18.50	0	0.88	0.00	28.92	0.00
10yr3d	NSLRWCD C37	BASE	207.76	9.32	18.50	0	0.88	0.00	28.94	0.00
10yr3d	NSLRWCD C37	BASE	208.01	9.32	18.50	0	0.88	0.00	28.95	0.00
10yr3d	NSLRWCD C37	BASE	208.26	9.32	18.50	0	0.88	0.00	28.97	0.00
10yr3d	NSLRWCD C37	BASE	208.51	9.32	18.50	0	0.88	0.00	28.99	0.00
10yr3d	NSLRWCD C37	BASE	208.76	9.31	18.50	0	0.87	0.00	29.01	0.00
10yr3d	NSLRWCD C37	BASE	209.01	9.31	18.50	0	0.87	0.00	29.03	0.00
10yr3d	NSLRWCD C37	BASE	209.26	9.31	18.50	0	0.87	0.00	29.04	0.00
10yr3d	NSLRWCD C37	BASE	209.51	9.31	18.50	0	0.87	0.00	29.06	0.00
10yr3d	NSLRWCD C37	BASE	209.76	9.30	18.50	0	0.87	0.00	29.08	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	210.01	9.30	18.50	0	0.87	0.00	29.10	0.00
10yr3d	NSLRWCD C37	BASE	210.26	9.30	18.50	0	0.86	0.00	29.12	0.00
10yr3d	NSLRWCD C37	BASE	210.51	9.30	18.50	0	0.86	0.00	29.13	0.00
10yr3d	NSLRWCD C37	BASE	210.76	9.29	18.50	0	0.86	0.00	29.15	0.00
10yr3d	NSLRWCD C37	BASE	211.01	9.29	18.50	0	0.86	0.00	29.17	0.00
10yr3d	NSLRWCD C37	BASE	211.26	9.29	18.50	0	0.86	0.00	29.19	0.00
10yr3d	NSLRWCD C37	BASE	211.51	9.29	18.50	0	0.86	0.00	29.20	0.00
10yr3d	NSLRWCD C37	BASE	211.76	9.28	18.50	0	0.85	0.00	29.22	0.00
10yr3d	NSLRWCD C37	BASE	212.01	9.28	18.50	0	0.85	0.00	29.24	0.00
10yr3d	NSLRWCD C37	BASE	212.26	9.28	18.50	0	0.85	0.00	29.26	0.00
10yr3d	NSLRWCD C37	BASE	212.51	9.28	18.50	0	0.85	0.00	29.28	0.00
10yr3d	NSLRWCD C37	BASE	212.76	9.27	18.50	0	0.85	0.00	29.29	0.00
10yr3d	NSLRWCD C37	BASE	213.01	9.27	18.50	0	0.85	0.00	29.31	0.00
10yr3d	NSLRWCD C37	BASE	213.26	9.27	18.50	0	0.84	0.00	29.33	0.00
10yr3d	NSLRWCD C37	BASE	213.51	9.27	18.50	0	0.84	0.00	29.35	0.00
10yr3d	NSLRWCD C37	BASE	213.76	9.26	18.50	0	0.84	0.00	29.36	0.00
10yr3d	NSLRWCD C37	BASE	214.01	9.26	18.50	0	0.84	0.00	29.38	0.00
10yr3d	NSLRWCD C37	BASE	214.26	9.26	18.50	0	0.84	0.00	29.40	0.00
10yr3d	NSLRWCD C37	BASE	214.51	9.26	18.50	0	0.84	0.00	29.41	0.00
10yr3d	NSLRWCD C37	BASE	214.76	9.25	18.50	0	0.83	0.00	29.43	0.00
10yr3d	NSLRWCD C37	BASE	215.01	9.25	18.50	0	0.83	0.00	29.45	0.00
10yr3d	NSLRWCD C37	BASE	215.26	9.25	18.50	0	0.83	0.00	29.47	0.00
10yr3d	NSLRWCD C37	BASE	215.51	9.25	18.50	0	0.83	0.00	29.48	0.00
10yr3d	NSLRWCD C37	BASE	215.76	9.24	18.50	0	0.83	0.00	29.50	0.00
10yr3d	NSLRWCD C37	BASE	216.01	9.24	18.50	0	0.83	0.00	29.52	0.00
10yr3d	NSLRWCD C37	BASE	216.26	9.24	18.50	0	0.83	0.00	29.53	0.00
10yr3d	NSLRWCD C37	BASE	216.51	9.23	18.50	0	0.82	0.00	29.55	0.00
10yr3d	NSLRWCD C37	BASE	216.76	9.23	18.50	0	0.82	0.00	29.57	0.00
10yr3d	NSLRWCD C37	BASE	217.01	9.23	18.50	0	0.82	0.00	29.59	0.00
10yr3d	NSLRWCD C37	BASE	217.26	9.23	18.50	0	0.82	0.00	29.60	0.00
10yr3d	NSLRWCD C37	BASE	217.51	9.22	18.50	0	0.82	0.00	29.62	0.00
10yr3d	NSLRWCD C37	BASE	217.76	9.22	18.50	0	0.82	0.00	29.64	0.00
10yr3d	NSLRWCD C37	BASE	218.01	9.22	18.50	0	0.81	0.00	29.65	0.00
10yr3d	NSLRWCD C37	BASE	218.26	9.22	18.50	0	0.81	0.00	29.67	0.00
10yr3d	NSLRWCD C37	BASE	218.51	9.21	18.50	0	0.81	0.00	29.69	0.00
10yr3d	NSLRWCD C37	BASE	218.76	9.21	18.50	0	0.81	0.00	29.70	0.00
10yr3d	NSLRWCD C37	BASE	219.01	9.21	18.50	0	0.81	0.00	29.72	0.00
10yr3d	NSLRWCD C37	BASE	219.26	9.21	18.50	0	0.81	0.00	29.74	0.00
10yr3d	NSLRWCD C37	BASE	219.51	9.20	18.50	0	0.81	0.00	29.75	0.00
10yr3d	NSLRWCD C37	BASE	219.76	9.20	18.50	0	0.80	0.00	29.77	0.00
10yr3d	NSLRWCD C37	BASE	220.01	9.20	18.50	0	0.80	0.00	29.79	0.00
10yr3d	NSLRWCD C37	BASE	220.26	9.20	18.50	0	0.80	0.00	29.80	0.00
10yr3d	NSLRWCD C37	BASE	220.51	9.19	18.50	0	0.80	0.00	29.82	0.00
10yr3d	NSLRWCD C37	BASE	220.76	9.19	18.50	0	0.80	0.00	29.84	0.00
10yr3d	NSLRWCD C37	BASE	221.01	9.19	18.50	0	0.80	0.00	29.85	0.00
10yr3d	NSLRWCD C37	BASE	221.26	9.19	18.50	0	0.80	0.00	29.87	0.00
10yr3d	NSLRWCD C37	BASE	221.51	9.18	18.50	0	0.79	0.00	29.89	0.00
10yr3d	NSLRWCD C37	BASE	221.76	9.18	18.50	0	0.79	0.00	29.90	0.00
10yr3d	NSLRWCD C37	BASE	222.01	9.18	18.50	0	0.79	0.00	29.92	0.00
10yr3d	NSLRWCD C37	BASE	222.26	9.18	18.50	0	0.79	0.00	29.93	0.00
10yr3d	NSLRWCD C37	BASE	222.51	9.17	18.50	0	0.79	0.00	29.95	0.00
10yr3d	NSLRWCD C37	BASE	222.76	9.17	18.50	0	0.79	0.00	29.97	0.00
10yr3d	NSLRWCD C37	BASE	223.01	9.17	18.50	0	0.79	0.00	29.98	0.00
10yr3d	NSLRWCD C37	BASE	223.26	9.17	18.50	0	0.78	0.00	30.00	0.00
10yr3d	NSLRWCD C37	BASE	223.51	9.16	18.50	0	0.78	0.00	30.02	0.00
10yr3d	NSLRWCD C37	BASE	223.76	9.16	18.50	0	0.78	0.00	30.03	0.00
10yr3d	NSLRWCD C37	BASE	224.01	9.16	18.50	0	0.78	0.00	30.05	0.00
10yr3d	NSLRWCD C37	BASE	224.26	9.16	18.50	0	0.78	0.00	30.06	0.00
10yr3d	NSLRWCD C37	BASE	224.51	9.15	18.50	0	0.78	0.00	30.08	0.00
10yr3d	NSLRWCD C37	BASE	224.76	9.15	18.50	0	0.78	0.00	30.10	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	225.01	9.15	18.50	0	0.77	0.00	30.11	0.00
10yr3d	NSLRWCD C37	BASE	225.26	9.15	18.50	0	0.77	0.00	30.13	0.00
10yr3d	NSLRWCD C37	BASE	225.51	9.14	18.50	0	0.77	0.00	30.14	0.00
10yr3d	NSLRWCD C37	BASE	225.76	9.14	18.50	0	0.77	0.00	30.16	0.00
10yr3d	NSLRWCD C37	BASE	226.01	9.14	18.50	0	0.77	0.00	30.18	0.00
10yr3d	NSLRWCD C37	BASE	226.26	9.14	18.50	0	0.77	0.00	30.19	0.00
10yr3d	NSLRWCD C37	BASE	226.51	9.13	18.50	0	0.77	0.00	30.21	0.00
10yr3d	NSLRWCD C37	BASE	226.76	9.13	18.50	0	0.76	0.00	30.22	0.00
10yr3d	NSLRWCD C37	BASE	227.01	9.13	18.50	0	0.76	0.00	30.24	0.00
10yr3d	NSLRWCD C37	BASE	227.26	9.13	18.50	0	0.76	0.00	30.26	0.00
10yr3d	NSLRWCD C37	BASE	227.51	9.12	18.50	0	0.76	0.00	30.27	0.00
10yr3d	NSLRWCD C37	BASE	227.76	9.12	18.50	0	0.76	0.00	30.29	0.00
10yr3d	NSLRWCD C37	BASE	228.01	9.12	18.50	0	0.76	0.00	30.30	0.00
10yr3d	NSLRWCD C37	BASE	228.26	9.12	18.50	0	0.76	0.00	30.32	0.00
10yr3d	NSLRWCD C37	BASE	228.51	9.11	18.50	0	0.76	0.00	30.33	0.00
10yr3d	NSLRWCD C37	BASE	228.76	9.11	18.50	0	0.75	0.00	30.35	0.00
10yr3d	NSLRWCD C37	BASE	229.01	9.11	18.50	0	0.75	0.00	30.36	0.00
10yr3d	NSLRWCD C37	BASE	229.26	9.11	18.50	0	0.75	0.00	30.38	0.00
10yr3d	NSLRWCD C37	BASE	229.51	9.10	18.50	0	0.75	0.00	30.40	0.00
10yr3d	NSLRWCD C37	BASE	229.76	9.10	18.50	0	0.75	0.00	30.41	0.00
10yr3d	NSLRWCD C37	BASE	230.01	9.10	18.50	0	0.75	0.00	30.43	0.00
10yr3d	NSLRWCD C37	BASE	230.26	9.10	18.50	0	0.75	0.00	30.44	0.00
10yr3d	NSLRWCD C37	BASE	230.51	9.09	18.50	0	0.75	0.00	30.46	0.00
10yr3d	NSLRWCD C37	BASE	230.76	9.09	18.50	0	0.74	0.00	30.47	0.00
10yr3d	NSLRWCD C37	BASE	231.01	9.09	18.50	0	0.74	0.00	30.49	0.00
10yr3d	NSLRWCD C37	BASE	231.26	9.09	18.50	0	0.74	0.00	30.50	0.00
10yr3d	NSLRWCD C37	BASE	231.51	9.08	18.50	0	0.74	0.00	30.52	0.00
10yr3d	NSLRWCD C37	BASE	231.76	9.08	18.50	0	0.74	0.00	30.53	0.00
10yr3d	NSLRWCD C37	BASE	232.01	9.08	18.50	0	0.74	0.00	30.55	0.00
10yr3d	NSLRWCD C37	BASE	232.26	9.08	18.50	0	0.74	0.00	30.56	0.00
10yr3d	NSLRWCD C37	BASE	232.51	9.07	18.50	0	0.73	0.00	30.58	0.00
10yr3d	NSLRWCD C37	BASE	232.76	9.07	18.50	0	0.73	0.00	30.60	0.00
10yr3d	NSLRWCD C37	BASE	233.01	9.07	18.50	0	0.73	0.00	30.61	0.00
10yr3d	NSLRWCD C37	BASE	233.26	9.07	18.50	0	0.73	0.00	30.63	0.00
10yr3d	NSLRWCD C37	BASE	233.51	9.06	18.50	0	0.73	0.00	30.64	0.00
10yr3d	NSLRWCD C37	BASE	233.76	9.06	18.50	0	0.73	0.00	30.66	0.00
10yr3d	NSLRWCD C37	BASE	234.01	9.06	18.50	0	0.73	0.00	30.67	0.00
10yr3d	NSLRWCD C37	BASE	234.26	9.05	18.50	0	0.73	0.00	30.69	0.00
10yr3d	NSLRWCD C37	BASE	234.51	9.05	18.50	0	0.72	0.00	30.70	0.00
10yr3d	NSLRWCD C37	BASE	234.76	9.05	18.50	0	0.72	0.00	30.72	0.00
10yr3d	NSLRWCD C37	BASE	235.01	9.05	18.50	0	0.72	0.00	30.73	0.00
10yr3d	NSLRWCD C37	BASE	235.26	9.04	18.50	0	0.72	0.00	30.75	0.00
10yr3d	NSLRWCD C37	BASE	235.51	9.04	18.50	0	0.72	0.00	30.76	0.00
10yr3d	NSLRWCD C37	BASE	235.76	9.04	18.50	0	0.72	0.00	30.78	0.00
10yr3d	NSLRWCD C37	BASE	236.01	9.04	18.50	0	0.72	0.00	30.79	0.00
10yr3d	NSLRWCD C37	BASE	236.26	9.03	18.50	0	0.72	0.00	30.80	0.00
10yr3d	NSLRWCD C37	BASE	236.51	9.03	18.50	0	0.71	0.00	30.82	0.00
10yr3d	NSLRWCD C37	BASE	236.76	9.03	18.50	0	0.71	0.00	30.83	0.00
10yr3d	NSLRWCD C37	BASE	237.01	9.03	18.50	0	0.71	0.00	30.85	0.00
10yr3d	NSLRWCD C37	BASE	237.26	9.02	18.50	0	0.71	0.00	30.86	0.00
10yr3d	NSLRWCD C37	BASE	237.51	9.02	18.50	0	0.71	0.00	30.88	0.00
10yr3d	NSLRWCD C37	BASE	237.76	9.02	18.50	0	0.71	0.00	30.89	0.00
10yr3d	NSLRWCD C37	BASE	238.01	9.02	18.50	0	0.71	0.00	30.91	0.00
10yr3d	NSLRWCD C37	BASE	238.26	9.01	18.50	0	0.71	0.00	30.92	0.00
10yr3d	NSLRWCD C37	BASE	238.51	9.01	18.50	0	0.71	0.00	30.94	0.00
10yr3d	NSLRWCD C37	BASE	238.76	9.01	18.50	0	0.70	0.00	30.95	0.00
10yr3d	NSLRWCD C37	BASE	239.01	9.01	18.50	0	0.70	0.00	30.97	0.00
10yr3d	NSLRWCD C37	BASE	239.26	9.00	18.50	0	0.70	0.00	30.98	0.00
10yr3d	NSLRWCD C37	BASE	239.51	9.00	18.50	0	0.70	0.00	31.00	0.00
10yr3d	NSLRWCD C37	BASE	239.76	9.00	18.50	0	0.70	0.00	31.01	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	240.01	9.00	18.50	0	0.70	0.00	31.02	0.00
10yr3d	NSLRWCD C37	BASE	240.26	8.99	18.50	0	0.70	0.00	31.04	0.00
10yr3d	NSLRWCD C37	BASE	240.51	8.99	18.50	0	0.70	0.00	31.05	0.00
10yr3d	NSLRWCD C37	BASE	240.76	8.99	18.50	0	0.69	0.00	31.07	0.00
10yr3d	NSLRWCD C37	BASE	241.01	8.99	18.50	0	0.69	0.00	31.08	0.00
10yr3d	NSLRWCD C37	BASE	241.26	8.98	18.50	0	0.69	0.00	31.10	0.00
10yr3d	NSLRWCD C37	BASE	241.51	8.98	18.50	0	0.69	0.00	31.11	0.00
10yr3d	NSLRWCD C37	BASE	241.76	8.98	18.50	0	0.69	0.00	31.12	0.00
10yr3d	NSLRWCD C37	BASE	242.01	8.98	18.50	0	0.69	0.00	31.14	0.00
10yr3d	NSLRWCD C37	BASE	242.26	8.97	18.50	0	0.69	0.00	31.15	0.00
10yr3d	NSLRWCD C37	BASE	242.51	8.97	18.50	0	0.69	0.00	31.17	0.00
10yr3d	NSLRWCD C37	BASE	242.76	8.97	18.50	0	0.69	0.00	31.18	0.00
10yr3d	NSLRWCD C37	BASE	243.01	8.97	18.50	0	0.68	0.00	31.20	0.00
10yr3d	NSLRWCD C37	BASE	243.26	8.96	18.50	0	0.68	0.00	31.21	0.00
10yr3d	NSLRWCD C37	BASE	243.51	8.96	18.50	0	0.68	0.00	31.22	0.00
10yr3d	NSLRWCD C37	BASE	243.76	8.96	18.50	0	0.68	0.00	31.24	0.00
10yr3d	NSLRWCD C37	BASE	244.01	8.96	18.50	0	0.68	0.00	31.25	0.00
10yr3d	NSLRWCD C37	BASE	244.26	8.95	18.50	0	0.68	0.00	31.27	0.00
10yr3d	NSLRWCD C37	BASE	244.51	8.95	18.50	0	0.68	0.00	31.28	0.00
10yr3d	NSLRWCD C37	BASE	244.76	8.95	18.50	0	0.68	0.00	31.29	0.00
10yr3d	NSLRWCD C37	BASE	245.01	8.95	18.50	0	0.67	0.00	31.31	0.00
10yr3d	NSLRWCD C37	BASE	245.26	8.94	18.50	0	0.67	0.00	31.32	0.00
10yr3d	NSLRWCD C37	BASE	245.51	8.94	18.50	0	0.67	0.00	31.34	0.00
10yr3d	NSLRWCD C37	BASE	245.76	8.94	18.50	0	0.67	0.00	31.35	0.00
10yr3d	NSLRWCD C37	BASE	246.01	8.94	18.50	0	0.67	0.00	31.36	0.00
10yr3d	NSLRWCD C37	BASE	246.26	8.93	18.50	0	0.67	0.00	31.38	0.00
10yr3d	NSLRWCD C37	BASE	246.51	8.93	18.50	0	0.67	0.00	31.39	0.00
10yr3d	NSLRWCD C37	BASE	246.76	8.93	18.50	0	0.67	0.00	31.40	0.00
10yr3d	NSLRWCD C37	BASE	247.01	8.93	18.50	0	0.67	0.00	31.42	0.00
10yr3d	NSLRWCD C37	BASE	247.26	8.92	18.50	0	0.66	0.00	31.43	0.00
10yr3d	NSLRWCD C37	BASE	247.51	8.92	18.50	0	0.66	0.00	31.45	0.00
10yr3d	NSLRWCD C37	BASE	247.76	8.92	18.50	0	0.66	0.00	31.46	0.00
10yr3d	NSLRWCD C37	BASE	248.01	8.92	18.50	0	0.66	0.00	31.47	0.00
10yr3d	NSLRWCD C37	BASE	248.26	8.91	18.50	0	0.66	0.00	31.49	0.00
10yr3d	NSLRWCD C37	BASE	248.51	8.91	18.50	0	0.66	0.00	31.50	0.00
10yr3d	NSLRWCD C37	BASE	248.76	8.91	18.50	0	0.66	0.00	31.51	0.00
10yr3d	NSLRWCD C37	BASE	249.01	8.91	18.50	0	0.66	0.00	31.53	0.00
10yr3d	NSLRWCD C37	BASE	249.26	8.90	18.50	0	0.66	0.00	31.54	0.00
10yr3d	NSLRWCD C37	BASE	249.51	8.90	18.50	0	0.65	0.00	31.55	0.00
10yr3d	NSLRWCD C37	BASE	249.76	8.90	18.50	0	0.65	0.00	31.57	0.00
10yr3d	NSLRWCD C37	BASE	250.01	8.90	18.50	0	0.65	0.00	31.58	0.00
10yr3d	NSLRWCD C37	BASE	250.26	8.89	18.50	0	0.65	0.00	31.60	0.00
10yr3d	NSLRWCD C37	BASE	250.51	8.89	18.50	0	0.65	0.00	31.61	0.00
10yr3d	NSLRWCD C37	BASE	250.76	8.89	18.50	0	0.65	0.00	31.62	0.00
10yr3d	NSLRWCD C37	BASE	251.01	8.89	18.50	0	0.65	0.00	31.64	0.00
10yr3d	NSLRWCD C37	BASE	251.26	8.88	18.50	0	0.65	0.00	31.65	0.00
10yr3d	NSLRWCD C37	BASE	251.51	8.88	18.50	0	0.65	0.00	31.66	0.00
10yr3d	NSLRWCD C37	BASE	251.76	8.88	18.50	0	0.64	0.00	31.68	0.00
10yr3d	NSLRWCD C37	BASE	252.01	8.87	18.50	0	0.64	0.00	31.69	0.00
10yr3d	NSLRWCD C37	BASE	252.26	8.87	18.50	0	0.64	0.00	31.70	0.00
10yr3d	NSLRWCD C37	BASE	252.51	8.87	18.50	0	0.64	0.00	31.72	0.00
10yr3d	NSLRWCD C37	BASE	252.76	8.87	18.50	0	0.64	0.00	31.73	0.00
10yr3d	NSLRWCD C37	BASE	253.01	8.86	18.50	0	0.64	0.00	31.74	0.00
10yr3d	NSLRWCD C37	BASE	253.26	8.86	18.50	0	0.64	0.00	31.75	0.00
10yr3d	NSLRWCD C37	BASE	253.51	8.86	18.50	0	0.64	0.00	31.77	0.00
10yr3d	NSLRWCD C37	BASE	253.76	8.86	18.50	0	0.64	0.00	31.78	0.00
10yr3d	NSLRWCD C37	BASE	254.01	8.85	18.50	0	0.63	0.00	31.79	0.00
10yr3d	NSLRWCD C37	BASE	254.26	8.85	18.50	0	0.63	0.00	31.81	0.00
10yr3d	NSLRWCD C37	BASE	254.51	8.85	18.50	0	0.63	0.00	31.82	0.00
10yr3d	NSLRWCD C37	BASE	254.76	8.85	18.50	0	0.63	0.00	31.83	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	255.01	8.84	18.50	0	0.63	0.00	31.85	0.00
10yr3d	NSLRWCD C37	BASE	255.26	8.84	18.50	0	0.63	0.00	31.86	0.00
10yr3d	NSLRWCD C37	BASE	255.51	8.84	18.50	0	0.63	0.00	31.87	0.00
10yr3d	NSLRWCD C37	BASE	255.76	8.84	18.50	0	0.63	0.00	31.89	0.00
10yr3d	NSLRWCD C37	BASE	256.01	8.83	18.50	0	0.63	0.00	31.90	0.00
10yr3d	NSLRWCD C37	BASE	256.26	8.83	18.50	0	0.62	0.00	31.91	0.00
10yr3d	NSLRWCD C37	BASE	256.51	8.83	18.50	0	0.62	0.00	31.92	0.00
10yr3d	NSLRWCD C37	BASE	256.76	8.83	18.50	0	0.62	0.00	31.94	0.00
10yr3d	NSLRWCD C37	BASE	257.01	8.82	18.50	0	0.62	0.00	31.95	0.00
10yr3d	NSLRWCD C37	BASE	257.26	8.82	18.50	0	0.62	0.00	31.96	0.00
10yr3d	NSLRWCD C37	BASE	257.51	8.82	18.50	0	0.62	0.00	31.98	0.00
10yr3d	NSLRWCD C37	BASE	257.76	8.82	18.50	0	0.62	0.00	31.99	0.00
10yr3d	NSLRWCD C37	BASE	258.01	8.81	18.50	0	0.62	0.00	32.00	0.00
10yr3d	NSLRWCD C37	BASE	258.26	8.81	18.50	0	0.62	0.00	32.01	0.00
10yr3d	NSLRWCD C37	BASE	258.51	8.81	18.50	0	0.62	0.00	32.03	0.00
10yr3d	NSLRWCD C37	BASE	258.76	8.81	18.50	0	0.61	0.00	32.04	0.00
10yr3d	NSLRWCD C37	BASE	259.01	8.80	18.50	0	0.61	0.00	32.05	0.00
10yr3d	NSLRWCD C37	BASE	259.26	8.80	18.50	0	0.61	0.00	32.06	0.00
10yr3d	NSLRWCD C37	BASE	259.51	8.80	18.50	0	0.61	0.00	32.08	0.00
10yr3d	NSLRWCD C37	BASE	259.76	8.80	18.50	0	0.61	0.00	32.09	0.00
10yr3d	NSLRWCD C37	BASE	260.01	8.79	18.50	0	0.61	0.00	32.10	0.00
10yr3d	NSLRWCD C37	BASE	260.26	8.79	18.50	0	0.61	0.00	32.12	0.00
10yr3d	NSLRWCD C37	BASE	260.51	8.79	18.50	0	0.61	0.00	32.13	0.00
10yr3d	NSLRWCD C37	BASE	260.76	8.79	18.50	0	0.61	0.00	32.14	0.00
10yr3d	NSLRWCD C37	BASE	261.01	8.78	18.50	0	0.61	0.00	32.15	0.00
10yr3d	NSLRWCD C37	BASE	261.26	8.78	18.50	0	0.60	0.00	32.17	0.00
10yr3d	NSLRWCD C37	BASE	261.51	8.78	18.50	0	0.60	0.00	32.18	0.00
10yr3d	NSLRWCD C37	BASE	261.76	8.78	18.50	0	0.60	0.00	32.19	0.00
10yr3d	NSLRWCD C37	BASE	262.01	8.77	18.50	0	0.60	0.00	32.20	0.00
10yr3d	NSLRWCD C37	BASE	262.26	8.77	18.50	0	0.60	0.00	32.22	0.00
10yr3d	NSLRWCD C37	BASE	262.51	8.77	18.50	0	0.60	0.00	32.23	0.00
10yr3d	NSLRWCD C37	BASE	262.76	8.77	18.50	0	0.60	0.00	32.24	0.00
10yr3d	NSLRWCD C37	BASE	263.01	8.76	18.50	0	0.60	0.00	32.25	0.00
10yr3d	NSLRWCD C37	BASE	263.26	8.76	18.50	0	0.60	0.00	32.26	0.00
10yr3d	NSLRWCD C37	BASE	263.51	8.76	18.50	0	0.59	0.00	32.28	0.00
10yr3d	NSLRWCD C37	BASE	263.76	8.76	18.50	0	0.59	0.00	32.29	0.00
10yr3d	NSLRWCD C37	BASE	264.01	8.75	18.50	0	0.59	0.00	32.30	0.00
10yr3d	NSLRWCD C37	BASE	264.26	8.75	18.50	0	0.59	0.00	32.31	0.00
10yr3d	NSLRWCD C37	BASE	264.51	8.75	18.50	0	0.59	0.00	32.33	0.00
10yr3d	NSLRWCD C37	BASE	264.76	8.75	18.50	0	0.59	0.00	32.34	0.00
10yr3d	NSLRWCD C37	BASE	265.01	8.74	18.50	0	0.59	0.00	32.35	0.00
10yr3d	NSLRWCD C37	BASE	265.26	8.74	18.50	0	0.59	0.00	32.36	0.00
10yr3d	NSLRWCD C37	BASE	265.51	8.74	18.50	0	0.59	0.00	32.37	0.00
10yr3d	NSLRWCD C37	BASE	265.76	8.74	18.50	0	0.59	0.00	32.39	0.00
10yr3d	NSLRWCD C37	BASE	266.01	8.73	18.50	0	0.58	0.00	32.40	0.00
10yr3d	NSLRWCD C37	BASE	266.26	8.73	18.50	0	0.58	0.00	32.41	0.00
10yr3d	NSLRWCD C37	BASE	266.51	8.73	18.50	0	0.58	0.00	32.42	0.00
10yr3d	NSLRWCD C37	BASE	266.76	8.73	18.50	0	0.58	0.00	32.43	0.00
10yr3d	NSLRWCD C37	BASE	267.01	8.72	18.50	0	0.58	0.00	32.45	0.00
10yr3d	NSLRWCD C37	BASE	267.26	8.72	18.50	0	0.58	0.00	32.46	0.00
10yr3d	NSLRWCD C37	BASE	267.51	8.72	18.50	0	0.58	0.00	32.47	0.00
10yr3d	NSLRWCD C37	BASE	267.76	8.72	18.50	0	0.58	0.00	32.48	0.00
10yr3d	NSLRWCD C37	BASE	268.01	8.71	18.50	0	0.58	0.00	32.49	0.00
10yr3d	NSLRWCD C37	BASE	268.26	8.71	18.50	0	0.58	0.00	32.51	0.00
10yr3d	NSLRWCD C37	BASE	268.51	8.71	18.50	0	0.58	0.00	32.52	0.00
10yr3d	NSLRWCD C37	BASE	268.76	8.71	18.50	0	0.57	0.00	32.53	0.00
10yr3d	NSLRWCD C37	BASE	269.01	8.70	18.50	0	0.57	0.00	32.54	0.00
10yr3d	NSLRWCD C37	BASE	269.26	8.70	18.50	0	0.57	0.00	32.55	0.00
10yr3d	NSLRWCD C37	BASE	269.51	8.70	18.50	0	0.57	0.00	32.57	0.00
10yr3d	NSLRWCD C37	BASE	269.76	8.69	18.50	0	0.57	0.00	32.58	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	270.01	8.69	18.50	0	0.57	0.00	32.59	0.00
10yr3d	NSLRWCD C37	BASE	270.26	8.69	18.50	0	0.57	0.00	32.60	0.00
10yr3d	NSLRWCD C37	BASE	270.51	8.69	18.50	0	0.57	0.00	32.61	0.00
10yr3d	NSLRWCD C37	BASE	270.76	8.68	18.50	0	0.57	0.00	32.62	0.00
10yr3d	NSLRWCD C37	BASE	271.01	8.68	18.50	0	0.57	0.00	32.64	0.00
10yr3d	NSLRWCD C37	BASE	271.26	8.68	18.50	0	0.56	0.00	32.65	0.00
10yr3d	NSLRWCD C37	BASE	271.51	8.68	18.50	0	0.56	0.00	32.66	0.00
10yr3d	NSLRWCD C37	BASE	271.76	8.67	18.50	0	0.56	0.00	32.67	0.00
10yr3d	NSLRWCD C37	BASE	272.01	8.67	18.50	0	0.56	0.00	32.68	0.00
10yr3d	NSLRWCD C37	BASE	272.26	8.67	18.50	0	0.56	0.00	32.69	0.00
10yr3d	NSLRWCD C37	BASE	272.51	8.67	18.50	0	0.56	0.00	32.71	0.00
10yr3d	NSLRWCD C37	BASE	272.76	8.66	18.50	0	0.56	0.00	32.72	0.00
10yr3d	NSLRWCD C37	BASE	273.01	8.66	18.50	0	0.56	0.00	32.73	0.00
10yr3d	NSLRWCD C37	BASE	273.26	8.66	18.50	0	0.56	0.00	32.74	0.00
10yr3d	NSLRWCD C37	BASE	273.51	8.66	18.50	0	0.56	0.00	32.75	0.00
10yr3d	NSLRWCD C37	BASE	273.76	8.65	18.50	0	0.56	0.00	32.76	0.00
10yr3d	NSLRWCD C37	BASE	274.01	8.65	18.50	0	0.55	0.00	32.78	0.00
10yr3d	NSLRWCD C37	BASE	274.26	8.65	18.50	0	0.55	0.00	32.79	0.00
10yr3d	NSLRWCD C37	BASE	274.51	8.65	18.50	0	0.55	0.00	32.80	0.00
10yr3d	NSLRWCD C37	BASE	274.76	8.64	18.50	0	0.55	0.00	32.81	0.00
10yr3d	NSLRWCD C37	BASE	275.01	8.64	18.50	0	0.55	0.00	32.82	0.00
10yr3d	NSLRWCD C37	BASE	275.26	8.64	18.50	0	0.55	0.00	32.83	0.00
10yr3d	NSLRWCD C37	BASE	275.51	8.64	18.50	0	0.55	0.00	32.84	0.00
10yr3d	NSLRWCD C37	BASE	275.76	8.63	18.50	0	0.55	0.00	32.85	0.00
10yr3d	NSLRWCD C37	BASE	276.01	8.63	18.50	0	0.55	0.00	32.87	0.00
10yr3d	NSLRWCD C37	BASE	276.26	8.63	18.50	0	0.55	0.00	32.88	0.00
10yr3d	NSLRWCD C37	BASE	276.51	8.63	18.50	0	0.55	0.00	32.89	0.00
10yr3d	NSLRWCD C37	BASE	276.76	8.62	18.50	0	0.54	0.00	32.90	0.00
10yr3d	NSLRWCD C37	BASE	277.01	8.62	18.50	0	0.54	0.00	32.91	0.00
10yr3d	NSLRWCD C37	BASE	277.26	8.62	18.50	0	0.54	0.00	32.92	0.00
10yr3d	NSLRWCD C37	BASE	277.51	8.62	18.50	0	0.54	0.00	32.93	0.00
10yr3d	NSLRWCD C37	BASE	277.76	8.61	18.50	0	0.54	0.00	32.94	0.00
10yr3d	NSLRWCD C37	BASE	278.01	8.61	18.50	0	0.54	0.00	32.96	0.00
10yr3d	NSLRWCD C37	BASE	278.26	8.61	18.50	0	0.54	0.00	32.97	0.00
10yr3d	NSLRWCD C37	BASE	278.51	8.61	18.50	0	0.54	0.00	32.98	0.00
10yr3d	NSLRWCD C37	BASE	278.76	8.60	18.50	0	0.54	0.00	32.99	0.00
10yr3d	NSLRWCD C37	BASE	279.01	8.60	18.50	0	0.54	0.00	33.00	0.00
10yr3d	NSLRWCD C37	BASE	279.26	8.60	18.50	0	0.54	0.00	33.01	0.00
10yr3d	NSLRWCD C37	BASE	279.51	8.60	18.50	0	0.54	0.00	33.02	0.00
10yr3d	NSLRWCD C37	BASE	279.76	8.59	18.50	0	0.53	0.00	33.03	0.00
10yr3d	NSLRWCD C37	BASE	280.01	8.59	18.50	0	0.53	0.00	33.04	0.00
10yr3d	NSLRWCD C37	BASE	280.26	8.59	18.50	0	0.53	0.00	33.06	0.00
10yr3d	NSLRWCD C37	BASE	280.51	8.59	18.50	0	0.53	0.00	33.07	0.00
10yr3d	NSLRWCD C37	BASE	280.76	8.58	18.50	0	0.53	0.00	33.08	0.00
10yr3d	NSLRWCD C37	BASE	281.01	8.58	18.50	0	0.53	0.00	33.09	0.00
10yr3d	NSLRWCD C37	BASE	281.26	8.58	18.50	0	0.53	0.00	33.10	0.00
10yr3d	NSLRWCD C37	BASE	281.51	8.58	18.50	0	0.53	0.00	33.11	0.00
10yr3d	NSLRWCD C37	BASE	281.76	8.57	18.50	0	0.53	0.00	33.12	0.00
10yr3d	NSLRWCD C37	BASE	282.01	8.57	18.50	0	0.53	0.00	33.13	0.00
10yr3d	NSLRWCD C37	BASE	282.26	8.57	18.50	0	0.53	0.00	33.14	0.00
10yr3d	NSLRWCD C37	BASE	282.51	8.57	18.50	0	0.53	0.00	33.15	0.00
10yr3d	NSLRWCD C37	BASE	282.76	8.56	18.50	0	0.53	0.00	33.17	0.00
10yr3d	NSLRWCD C37	BASE	283.01	8.56	18.50	0	0.52	0.00	33.18	0.00
10yr3d	NSLRWCD C37	BASE	283.26	8.56	18.50	0	0.52	0.00	33.19	0.00
10yr3d	NSLRWCD C37	BASE	283.51	8.56	18.50	0	0.52	0.00	33.20	0.00
10yr3d	NSLRWCD C37	BASE	283.76	8.55	18.50	0	0.52	0.00	33.21	0.00
10yr3d	NSLRWCD C37	BASE	284.01	8.55	18.50	0	0.52	0.00	33.22	0.00
10yr3d	NSLRWCD C37	BASE	284.26	8.55	18.50	0	0.52	0.00	33.23	0.00
10yr3d	NSLRWCD C37	BASE	284.51	8.55	18.50	0	0.52	0.00	33.24	0.00
10yr3d	NSLRWCD C37	BASE	284.76	8.54	18.50	0	0.52	0.00	33.25	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	285.01	8.54	18.50	0	0.52	0.00	33.26	0.00
10yr3d	NSLRWCD C37	BASE	285.26	8.54	18.50	0	0.52	0.00	33.27	0.00
10yr3d	NSLRWCD C37	BASE	285.51	8.54	18.50	0	0.52	0.00	33.28	0.00
10yr3d	NSLRWCD C37	BASE	285.76	8.53	18.50	0	0.52	0.00	33.29	0.00
10yr3d	NSLRWCD C37	BASE	286.01	8.53	18.50	0	0.52	0.00	33.30	0.00
10yr3d	NSLRWCD C37	BASE	286.26	8.53	18.50	0	0.51	0.00	33.32	0.00
10yr3d	NSLRWCD C37	BASE	286.51	8.53	18.50	0	0.51	0.00	33.33	0.00
10yr3d	NSLRWCD C37	BASE	286.76	8.52	18.50	0	0.51	0.00	33.34	0.00
10yr3d	NSLRWCD C37	BASE	287.01	8.52	18.50	0	0.51	0.00	33.35	0.00
10yr3d	NSLRWCD C37	BASE	287.26	8.52	18.50	0	0.51	0.00	33.36	0.00
10yr3d	NSLRWCD C37	BASE	287.51	8.52	18.50	0	0.51	0.00	33.37	0.00
10yr3d	NSLRWCD C37	BASE	287.76	8.51	18.50	0	0.51	0.00	33.38	0.00
10yr3d	NSLRWCD C37	BASE	288.01	8.51	18.50	0	0.51	0.00	33.39	0.00
10yr3d	NSLRWCD C37	BASE	288.26	8.51	18.50	0	0.51	0.00	33.40	0.00
10yr3d	NSLRWCD C37	BASE	288.51	8.50	18.50	0	0.51	0.00	33.41	0.00
10yr3d	NSLRWCD C37	BASE	288.76	8.50	18.50	0	0.51	0.00	33.42	0.00
10yr3d	NSLRWCD C37	BASE	289.01	8.50	18.50	0	0.51	0.00	33.43	0.00
10yr3d	NSLRWCD C37	BASE	289.26	8.50	18.50	0	0.51	0.00	33.44	0.00
10yr3d	NSLRWCD C37	BASE	289.51	8.49	18.50	0	0.51	0.00	33.45	0.00
10yr3d	NSLRWCD C37	BASE	289.76	8.49	18.50	0	0.51	0.00	33.46	0.00
10yr3d	NSLRWCD C37	BASE	290.01	8.49	18.50	0	0.51	0.00	33.47	0.00
10yr3d	NSLRWCD C37	BASE	290.26	8.49	18.50	0	0.51	0.00	33.48	0.00
10yr3d	NSLRWCD C37	BASE	290.51	8.48	18.50	0	0.51	0.00	33.49	0.00
10yr3d	NSLRWCD C37	BASE	290.76	8.48	18.50	0	0.50	0.00	33.51	0.00
10yr3d	NSLRWCD C37	BASE	291.01	8.48	18.50	0	0.50	0.00	33.52	0.00
10yr3d	NSLRWCD C37	BASE	291.26	8.48	18.50	0	0.50	0.00	33.53	0.00
10yr3d	NSLRWCD C37	BASE	291.51	8.47	18.50	0	0.50	0.00	33.54	0.00
10yr3d	NSLRWCD C37	BASE	291.76	8.47	18.50	0	0.50	0.00	33.55	0.00
10yr3d	NSLRWCD C37	BASE	292.01	8.47	18.50	0	0.50	0.00	33.56	0.00
10yr3d	NSLRWCD C37	BASE	292.26	8.47	18.50	0	0.50	0.00	33.57	0.00
10yr3d	NSLRWCD C37	BASE	292.51	8.46	18.50	0	0.50	0.00	33.58	0.00
10yr3d	NSLRWCD C37	BASE	292.76	8.46	18.50	0	0.50	0.00	33.59	0.00
10yr3d	NSLRWCD C37	BASE	293.01	8.46	18.50	0	0.50	0.00	33.60	0.00
10yr3d	NSLRWCD C37	BASE	293.26	8.46	18.50	0	0.50	0.00	33.61	0.00
10yr3d	NSLRWCD C37	BASE	293.51	8.45	18.50	0	0.50	0.00	33.62	0.00
10yr3d	NSLRWCD C37	BASE	293.76	8.45	18.50	0	0.50	0.00	33.63	0.00
10yr3d	NSLRWCD C37	BASE	294.01	8.45	18.50	0	0.50	0.00	33.64	0.00
10yr3d	NSLRWCD C37	BASE	294.26	8.45	18.50	0	0.50	0.00	33.65	0.00
10yr3d	NSLRWCD C37	BASE	294.51	8.44	18.50	0	0.50	0.00	33.66	0.00
10yr3d	NSLRWCD C37	BASE	294.76	8.44	18.50	0	0.50	0.00	33.67	0.00
10yr3d	NSLRWCD C37	BASE	295.01	8.44	18.50	0	0.50	0.00	33.68	0.00
10yr3d	NSLRWCD C37	BASE	295.26	8.44	18.50	0	0.50	0.00	33.69	0.00
10yr3d	NSLRWCD C37	BASE	295.51	8.43	18.50	0	0.50	0.00	33.70	0.00
10yr3d	NSLRWCD C37	BASE	295.76	8.43	18.50	0	0.50	0.00	33.71	0.00
10yr3d	NSLRWCD C37	BASE	296.01	8.43	18.50	0	0.50	0.00	33.72	0.00
10yr3d	NSLRWCD C37	BASE	296.26	8.43	18.50	0	0.50	0.00	33.73	0.00
10yr3d	NSLRWCD C37	BASE	296.51	8.42	18.50	0	0.50	0.00	33.74	0.00
10yr3d	NSLRWCD C37	BASE	296.76	8.42	18.50	0	0.50	0.00	33.75	0.00
10yr3d	NSLRWCD C37	BASE	297.01	8.42	18.50	0	0.50	0.00	33.76	0.00
10yr3d	NSLRWCD C37	BASE	297.26	8.42	18.50	0	0.50	0.00	33.77	0.00
10yr3d	NSLRWCD C37	BASE	297.51	8.41	18.50	0	0.50	0.00	33.78	0.00
10yr3d	NSLRWCD C37	BASE	297.76	8.41	18.50	0	0.50	0.00	33.79	0.00
10yr3d	NSLRWCD C37	BASE	298.01	8.41	18.50	0	0.50	0.00	33.81	0.00
10yr3d	NSLRWCD C37	BASE	298.26	8.41	18.50	0	0.50	0.00	33.82	0.00
10yr3d	NSLRWCD C37	BASE	298.51	8.40	18.50	0	0.50	0.00	33.83	0.00
10yr3d	NSLRWCD C37	BASE	298.76	8.40	18.50	0	0.50	0.00	33.84	0.00
10yr3d	NSLRWCD C37	BASE	299.01	8.40	18.50	0	0.50	0.00	33.85	0.00
10yr3d	NSLRWCD C37	BASE	299.26	8.40	18.50	0	0.50	0.00	33.86	0.00
10yr3d	NSLRWCD C37	BASE	299.51	8.39	18.50	0	0.50	0.00	33.87	0.00
10yr3d	NSLRWCD C37	BASE	299.76	8.39	18.50	0	0.50	0.00	33.88	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	300.01	8.39	18.50	0	0.50	0.00	33.89	0.00
10yr3d	NSLRWCD C37	BASE	300.26	8.39	18.50	0	0.50	0.00	33.90	0.00
10yr3d	NSLRWCD C37	BASE	300.51	8.38	18.50	0	0.50	0.00	33.91	0.00
10yr3d	NSLRWCD C37	BASE	300.76	8.38	18.50	0	0.50	0.00	33.92	0.00
10yr3d	NSLRWCD C37	BASE	301.01	8.38	18.50	0	0.50	0.00	33.93	0.00
10yr3d	NSLRWCD C37	BASE	301.26	8.38	18.50	0	0.49	0.00	33.94	0.00
10yr3d	NSLRWCD C37	BASE	301.51	8.37	18.50	0	0.49	0.00	33.95	0.00
10yr3d	NSLRWCD C37	BASE	301.76	8.37	18.50	0	0.49	0.00	33.96	0.00
10yr3d	NSLRWCD C37	BASE	302.01	8.37	18.50	0	0.49	0.00	33.97	0.00
10yr3d	NSLRWCD C37	BASE	302.26	8.37	18.50	0	0.49	0.00	33.98	0.00
10yr3d	NSLRWCD C37	BASE	302.51	8.36	18.50	0	0.49	0.00	33.99	0.00
10yr3d	NSLRWCD C37	BASE	302.76	8.36	18.50	0	0.49	0.00	34.00	0.00
10yr3d	NSLRWCD C37	BASE	303.01	8.36	18.50	0	0.49	0.00	34.01	0.00
10yr3d	NSLRWCD C37	BASE	303.26	8.36	18.50	0	0.49	0.00	34.02	0.00
10yr3d	NSLRWCD C37	BASE	303.51	8.35	18.50	0	0.49	0.00	34.03	0.00
10yr3d	NSLRWCD C37	BASE	303.76	8.35	18.50	0	0.49	0.00	34.04	0.00
10yr3d	NSLRWCD C37	BASE	304.01	8.35	18.50	0	0.49	0.00	34.05	0.00
10yr3d	NSLRWCD C37	BASE	304.26	8.35	18.50	0	0.49	0.00	34.06	0.00
10yr3d	NSLRWCD C37	BASE	304.51	8.34	18.50	0	0.49	0.00	34.07	0.00
10yr3d	NSLRWCD C37	BASE	304.76	8.34	18.50	0	0.49	0.00	34.08	0.00
10yr3d	NSLRWCD C37	BASE	305.01	8.34	18.50	0	0.49	0.00	34.09	0.00
10yr3d	NSLRWCD C37	BASE	305.26	8.34	18.50	0	0.49	0.00	34.10	0.00
10yr3d	NSLRWCD C37	BASE	305.51	8.33	18.50	0	0.49	0.00	34.11	0.00
10yr3d	NSLRWCD C37	BASE	305.76	8.33	18.50	0	0.49	0.00	34.12	0.00
10yr3d	NSLRWCD C37	BASE	306.01	8.33	18.50	0	0.49	0.00	34.13	0.00
10yr3d	NSLRWCD C37	BASE	306.26	8.32	18.50	0	0.49	0.00	34.14	0.00
10yr3d	NSLRWCD C37	BASE	306.51	8.32	18.50	0	0.49	0.00	34.15	0.00
10yr3d	NSLRWCD C37	BASE	306.76	8.32	18.50	0	0.49	0.00	34.16	0.00
10yr3d	NSLRWCD C37	BASE	307.01	8.32	18.50	0	0.49	0.00	34.17	0.00
10yr3d	NSLRWCD C37	BASE	307.26	8.31	18.50	0	0.49	0.00	34.18	0.00
10yr3d	NSLRWCD C37	BASE	307.51	8.31	18.50	0	0.49	0.00	34.19	0.00
10yr3d	NSLRWCD C37	BASE	307.76	8.31	18.50	0	0.49	0.00	34.20	0.00
10yr3d	NSLRWCD C37	BASE	308.01	8.31	18.50	0	0.49	0.00	34.21	0.00
10yr3d	NSLRWCD C37	BASE	308.26	8.30	18.50	0	0.49	0.00	34.22	0.00
10yr3d	NSLRWCD C37	BASE	308.51	8.30	18.50	0	0.49	0.00	34.23	0.00
10yr3d	NSLRWCD C37	BASE	308.76	8.30	18.50	0	0.49	0.00	34.24	0.00
10yr3d	NSLRWCD C37	BASE	309.01	8.30	18.50	0	0.49	0.00	34.25	0.00
10yr3d	NSLRWCD C37	BASE	309.26	8.29	18.50	0	0.49	0.00	34.26	0.00
10yr3d	NSLRWCD C37	BASE	309.51	8.29	18.50	0	0.49	0.00	34.27	0.00
10yr3d	NSLRWCD C37	BASE	309.76	8.29	18.50	0	0.49	0.00	34.28	0.00
10yr3d	NSLRWCD C37	BASE	310.01	8.29	18.50	0	0.49	0.00	34.29	0.00
10yr3d	NSLRWCD C37	BASE	310.26	8.28	18.50	0	0.49	0.00	34.30	0.00
10yr3d	NSLRWCD C37	BASE	310.51	8.28	18.50	0	0.49	0.00	34.31	0.00
10yr3d	NSLRWCD C37	BASE	310.76	8.28	18.50	0	0.49	0.00	34.32	0.00
10yr3d	NSLRWCD C37	BASE	311.01	8.28	18.50	0	0.48	0.00	34.33	0.00
10yr3d	NSLRWCD C37	BASE	311.26	8.27	18.50	0	0.48	0.00	34.34	0.00
10yr3d	NSLRWCD C37	BASE	311.51	8.27	18.50	0	0.48	0.00	34.35	0.00
10yr3d	NSLRWCD C37	BASE	311.76	8.27	18.50	0	0.48	0.00	34.36	0.00
10yr3d	NSLRWCD C37	BASE	312.01	8.27	18.50	0	0.48	0.00	34.37	0.00
10yr3d	NSLRWCD C37	BASE	312.26	8.26	18.50	0	0.48	0.00	34.38	0.00
10yr3d	NSLRWCD C37	BASE	312.51	8.26	18.50	0	0.48	0.00	34.39	0.00
10yr3d	NSLRWCD C37	BASE	312.76	8.26	18.50	0	0.48	0.00	34.40	0.00
10yr3d	NSLRWCD C37	BASE	313.01	8.26	18.50	0	0.48	0.00	34.41	0.00
10yr3d	NSLRWCD C37	BASE	313.26	8.25	18.50	0	0.48	0.00	34.42	0.00
10yr3d	NSLRWCD C37	BASE	313.51	8.25	18.50	0	0.48	0.00	34.43	0.00
10yr3d	NSLRWCD C37	BASE	313.76	8.25	18.50	0	0.48	0.00	34.44	0.00
10yr3d	NSLRWCD C37	BASE	314.01	8.25	18.50	0	0.48	0.00	34.45	0.00
10yr3d	NSLRWCD C37	BASE	314.26	8.24	18.50	0	0.48	0.00	34.46	0.00
10yr3d	NSLRWCD C37	BASE	314.51	8.24	18.50	0	0.48	0.00	34.47	0.00
10yr3d	NSLRWCD C37	BASE	314.76	8.24	18.50	0	0.48	0.00	34.48	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	315.01	8.24	18.50	0	0.48	0.00	34.49	0.00
10yr3d	NSLRWCD C37	BASE	315.26	8.23	18.50	0	0.48	0.00	34.50	0.00
10yr3d	NSLRWCD C37	BASE	315.51	8.23	18.50	0	0.48	0.00	34.51	0.00
10yr3d	NSLRWCD C37	BASE	315.76	8.23	18.50	0	0.48	0.00	34.52	0.00
10yr3d	NSLRWCD C37	BASE	316.01	8.23	18.50	0	0.48	0.00	34.53	0.00
10yr3d	NSLRWCD C37	BASE	316.26	8.22	18.50	0	0.48	0.00	34.54	0.00
10yr3d	NSLRWCD C37	BASE	316.51	8.22	18.50	0	0.48	0.00	34.55	0.00
10yr3d	NSLRWCD C37	BASE	316.76	8.22	18.50	0	0.48	0.00	34.56	0.00
10yr3d	NSLRWCD C37	BASE	317.01	8.22	18.50	0	0.48	0.00	34.57	0.00
10yr3d	NSLRWCD C37	BASE	317.26	8.21	18.50	0	0.48	0.00	34.58	0.00
10yr3d	NSLRWCD C37	BASE	317.51	8.21	18.50	0	0.48	0.00	34.59	0.00
10yr3d	NSLRWCD C37	BASE	317.76	8.21	18.50	0	0.48	0.00	34.60	0.00
10yr3d	NSLRWCD C37	BASE	318.01	8.21	18.50	0	0.48	0.00	34.61	0.00
10yr3d	NSLRWCD C37	BASE	318.26	8.20	18.50	0	0.48	0.00	34.62	0.00
10yr3d	NSLRWCD C37	BASE	318.51	8.20	18.50	0	0.48	0.00	34.63	0.00
10yr3d	NSLRWCD C37	BASE	318.76	8.20	18.50	0	0.48	0.00	34.64	0.00
10yr3d	NSLRWCD C37	BASE	319.01	8.20	18.50	0	0.48	0.00	34.65	0.00
10yr3d	NSLRWCD C37	BASE	319.26	8.19	18.50	0	0.48	0.00	34.66	0.00
10yr3d	NSLRWCD C37	BASE	319.51	8.19	18.50	0	0.47	0.00	34.67	0.00
10yr3d	NSLRWCD C37	BASE	319.76	8.19	18.50	0	0.47	0.00	34.68	0.00
10yr3d	NSLRWCD C37	BASE	320.01	8.19	18.50	0	0.47	0.00	34.69	0.00
10yr3d	NSLRWCD C37	BASE	320.26	8.18	18.50	0	0.47	0.00	34.70	0.00
10yr3d	NSLRWCD C37	BASE	320.51	8.18	18.50	0	0.47	0.00	34.71	0.00
10yr3d	NSLRWCD C37	BASE	320.76	8.18	18.50	0	0.47	0.00	34.72	0.00
10yr3d	NSLRWCD C37	BASE	321.01	8.18	18.50	0	0.47	0.00	34.73	0.00
10yr3d	NSLRWCD C37	BASE	321.26	8.17	18.50	0	0.47	0.00	34.74	0.00
10yr3d	NSLRWCD C37	BASE	321.51	8.17	18.50	0	0.47	0.00	34.75	0.00
10yr3d	NSLRWCD C37	BASE	321.76	8.17	18.50	0	0.47	0.00	34.76	0.00
10yr3d	NSLRWCD C37	BASE	322.01	8.17	18.50	0	0.47	0.00	34.77	0.00
10yr3d	NSLRWCD C37	BASE	322.26	8.16	18.50	0	0.47	0.00	34.78	0.00
10yr3d	NSLRWCD C37	BASE	322.51	8.16	18.50	0	0.47	0.00	34.79	0.00
10yr3d	NSLRWCD C37	BASE	322.76	8.16	18.50	0	0.47	0.00	34.80	0.00
10yr3d	NSLRWCD C37	BASE	323.01	8.16	18.50	0	0.47	0.00	34.81	0.00
10yr3d	NSLRWCD C37	BASE	323.26	8.15	18.50	0	0.47	0.00	34.82	0.00
10yr3d	NSLRWCD C37	BASE	323.51	8.15	18.50	0	0.47	0.00	34.83	0.00
10yr3d	NSLRWCD C37	BASE	323.76	8.15	18.50	0	0.47	0.00	34.84	0.00
10yr3d	NSLRWCD C37	BASE	324.01	8.14	18.50	0	0.47	0.00	34.85	0.00
10yr3d	NSLRWCD C37	BASE	324.26	8.14	18.50	0	0.47	0.00	34.86	0.00
10yr3d	NSLRWCD C37	BASE	324.51	8.14	18.50	0	0.47	0.00	34.87	0.00
10yr3d	NSLRWCD C37	BASE	324.76	8.14	18.50	0	0.47	0.00	34.88	0.00
10yr3d	NSLRWCD C37	BASE	325.01	8.13	18.50	0	0.47	0.00	34.88	0.00
10yr3d	NSLRWCD C37	BASE	325.26	8.13	18.50	0	0.47	0.00	34.89	0.00
10yr3d	NSLRWCD C37	BASE	325.51	8.13	18.50	0	0.47	0.00	34.90	0.00
10yr3d	NSLRWCD C37	BASE	325.76	8.13	18.50	0	0.47	0.00	34.91	0.00
10yr3d	NSLRWCD C37	BASE	326.01	8.12	18.50	0	0.47	0.00	34.92	0.00
10yr3d	NSLRWCD C37	BASE	326.26	8.12	18.50	0	0.47	0.00	34.93	0.00
10yr3d	NSLRWCD C37	BASE	326.51	8.12	18.50	0	0.47	0.00	34.94	0.00
10yr3d	NSLRWCD C37	BASE	326.76	8.12	18.50	0	0.46	0.00	34.95	0.00
10yr3d	NSLRWCD C37	BASE	327.01	8.11	18.50	0	0.46	0.00	34.96	0.00
10yr3d	NSLRWCD C37	BASE	327.26	8.11	18.50	0	0.46	0.00	34.97	0.00
10yr3d	NSLRWCD C37	BASE	327.51	8.11	18.50	0	0.46	0.00	34.98	0.00
10yr3d	NSLRWCD C37	BASE	327.76	8.11	18.50	0	0.46	0.00	34.99	0.00
10yr3d	NSLRWCD C37	BASE	328.01	8.10	18.50	0	0.46	0.00	35.00	0.00
10yr3d	NSLRWCD C37	BASE	328.26	8.10	18.50	0	0.46	0.00	35.01	0.00
10yr3d	NSLRWCD C37	BASE	328.51	8.10	18.50	0	0.46	0.00	35.02	0.00
10yr3d	NSLRWCD C37	BASE	328.76	8.10	18.50	0	0.46	0.00	35.03	0.00
10yr3d	NSLRWCD C37	BASE	329.01	8.09	18.50	0	0.46	0.00	35.04	0.00
10yr3d	NSLRWCD C37	BASE	329.26	8.09	18.50	0	0.46	0.00	35.05	0.00
10yr3d	NSLRWCD C37	BASE	329.51	8.09	18.50	0	0.46	0.00	35.06	0.00
10yr3d	NSLRWCD C37	BASE	329.76	8.09	18.50	0	0.46	0.00	35.07	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	330.01	8.08	18.50	0	0.46	0.00	35.08	0.00
10yr3d	NSLRWCD C37	BASE	330.26	8.08	18.50	0	0.46	0.00	35.09	0.00
10yr3d	NSLRWCD C37	BASE	330.51	8.08	18.50	0	0.46	0.00	35.10	0.00
10yr3d	NSLRWCD C37	BASE	330.76	8.08	18.50	0	0.46	0.00	35.10	0.00
10yr3d	NSLRWCD C37	BASE	331.01	8.07	18.50	0	0.46	0.00	35.11	0.00
10yr3d	NSLRWCD C37	BASE	331.26	8.07	18.50	0	0.46	0.00	35.12	0.00
10yr3d	NSLRWCD C37	BASE	331.51	8.07	18.50	0	0.46	0.00	35.13	0.00
10yr3d	NSLRWCD C37	BASE	331.76	8.07	18.50	0	0.46	0.00	35.14	0.00
10yr3d	NSLRWCD C37	BASE	332.01	8.06	18.50	0	0.46	0.00	35.15	0.00
10yr3d	NSLRWCD C37	BASE	332.26	8.06	18.50	0	0.46	0.00	35.16	0.00
10yr3d	NSLRWCD C37	BASE	332.51	8.06	18.50	0	0.46	0.00	35.17	0.00
10yr3d	NSLRWCD C37	BASE	332.76	8.06	18.50	0	0.46	0.00	35.18	0.00
10yr3d	NSLRWCD C37	BASE	333.01	8.05	18.50	0	0.46	0.00	35.19	0.00
10yr3d	NSLRWCD C37	BASE	333.26	8.05	18.50	0	0.46	0.00	35.20	0.00
10yr3d	NSLRWCD C37	BASE	333.51	8.05	18.50	0	0.45	0.00	35.21	0.00
10yr3d	NSLRWCD C37	BASE	333.76	8.05	18.50	0	0.45	0.00	35.22	0.00
10yr3d	NSLRWCD C37	BASE	334.01	8.04	18.50	0	0.45	0.00	35.23	0.00
10yr3d	NSLRWCD C37	BASE	334.26	8.04	18.50	0	0.45	0.00	35.24	0.00
10yr3d	NSLRWCD C37	BASE	334.51	8.04	18.50	0	0.45	0.00	35.25	0.00
10yr3d	NSLRWCD C37	BASE	334.76	8.04	18.50	0	0.45	0.00	35.26	0.00
10yr3d	NSLRWCD C37	BASE	335.01	8.03	18.50	0	0.45	0.00	35.27	0.00
10yr3d	NSLRWCD C37	BASE	335.26	8.03	18.50	0	0.45	0.00	35.27	0.00
10yr3d	NSLRWCD C37	BASE	335.51	8.03	18.50	0	0.45	0.00	35.28	0.00
10yr3d	NSLRWCD C37	BASE	335.76	8.03	18.50	0	0.45	0.00	35.29	0.00
10yr3d	NSLRWCD C37	BASE	336.01	8.02	18.50	0	0.45	0.00	35.30	0.00
10yr3d	NSLRWCD C37	BASE	336.26	8.02	18.50	0	0.45	0.00	35.31	0.00
10yr3d	NSLRWCD C37	BASE	336.51	8.02	18.50	0	0.45	0.00	35.32	0.00
10yr3d	NSLRWCD C37	BASE	336.76	8.02	18.50	0	0.45	0.00	35.33	0.00
10yr3d	NSLRWCD C37	BASE	337.01	8.01	18.50	0	0.45	0.00	35.34	0.00
10yr3d	NSLRWCD C37	BASE	337.26	8.01	18.50	0	0.45	0.00	35.35	0.00
10yr3d	NSLRWCD C37	BASE	337.51	8.01	18.50	0	0.45	0.00	35.36	0.00
10yr3d	NSLRWCD C37	BASE	337.76	8.01	18.50	0	0.45	0.00	35.37	0.00
10yr3d	NSLRWCD C37	BASE	338.01	8.00	18.50	0	0.45	0.00	35.38	0.00
10yr3d	NSLRWCD C37	BASE	338.26	8.00	18.50	0	0.45	0.00	35.39	0.00
10yr3d	NSLRWCD C37	BASE	338.51	8.00	18.50	0	0.45	0.00	35.40	0.00
10yr3d	NSLRWCD C37	BASE	338.76	8.00	18.50	0	0.45	0.00	35.40	0.00
10yr3d	NSLRWCD C37	BASE	339.01	7.99	18.50	0	0.45	0.00	35.41	0.00
10yr3d	NSLRWCD C37	BASE	339.26	7.99	18.50	0	0.45	0.00	35.42	0.00
10yr3d	NSLRWCD C37	BASE	339.51	7.99	18.50	0	0.45	0.00	35.43	0.00
10yr3d	NSLRWCD C37	BASE	339.76	7.99	18.50	0	0.44	0.00	35.44	0.00
10yr3d	NSLRWCD C37	BASE	340.01	7.98	18.50	0	0.44	0.00	35.45	0.00
10yr3d	NSLRWCD C37	BASE	340.26	7.98	18.50	0	0.44	0.00	35.46	0.00
10yr3d	NSLRWCD C37	BASE	340.51	7.98	18.50	0	0.44	0.00	35.47	0.00
10yr3d	NSLRWCD C37	BASE	340.76	7.98	18.50	0	0.44	0.00	35.48	0.00
10yr3d	NSLRWCD C37	BASE	341.01	7.97	18.50	0	0.44	0.00	35.49	0.00
10yr3d	NSLRWCD C37	BASE	341.26	7.97	18.50	0	0.44	0.00	35.50	0.00
10yr3d	NSLRWCD C37	BASE	341.51	7.97	18.50	0	0.44	0.00	35.51	0.00
10yr3d	NSLRWCD C37	BASE	341.76	7.96	18.50	0	0.44	0.00	35.51	0.00
10yr3d	NSLRWCD C37	BASE	342.01	7.96	18.50	0	0.44	0.00	35.52	0.00
10yr3d	NSLRWCD C37	BASE	342.26	7.96	18.50	0	0.44	0.00	35.53	0.00
10yr3d	NSLRWCD C37	BASE	342.51	7.96	18.50	0	0.44	0.00	35.54	0.00
10yr3d	NSLRWCD C37	BASE	342.76	7.95	18.50	0	0.44	0.00	35.55	0.00
10yr3d	NSLRWCD C37	BASE	343.01	7.95	18.50	0	0.44	0.00	35.56	0.00
10yr3d	NSLRWCD C37	BASE	343.26	7.95	18.50	0	0.44	0.00	35.57	0.00
10yr3d	NSLRWCD C37	BASE	343.51	7.95	18.50	0	0.44	0.00	35.58	0.00
10yr3d	NSLRWCD C37	BASE	343.76	7.94	18.50	0	0.44	0.00	35.59	0.00
10yr3d	NSLRWCD C37	BASE	344.01	7.94	18.50	0	0.44	0.00	35.60	0.00
10yr3d	NSLRWCD C37	BASE	344.26	7.94	18.50	0	0.44	0.00	35.61	0.00
10yr3d	NSLRWCD C37	BASE	344.51	7.94	18.50	0	0.44	0.00	35.61	0.00
10yr3d	NSLRWCD C37	BASE	344.76	7.93	18.50	0	0.44	0.00	35.62	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	345.01	7.93	18.50	0	0.44	0.00	35.63	0.00
10yr3d	NSLRWCD C37	BASE	345.26	7.93	18.50	0	0.44	0.00	35.64	0.00
10yr3d	NSLRWCD C37	BASE	345.51	7.93	18.50	0	0.43	0.00	35.65	0.00
10yr3d	NSLRWCD C37	BASE	345.76	7.92	18.50	0	0.43	0.00	35.66	0.00
10yr3d	NSLRWCD C37	BASE	346.01	7.92	18.50	0	0.43	0.00	35.67	0.00
10yr3d	NSLRWCD C37	BASE	346.26	7.92	18.50	0	0.43	0.00	35.68	0.00
10yr3d	NSLRWCD C37	BASE	346.51	7.92	18.50	0	0.43	0.00	35.69	0.00
10yr3d	NSLRWCD C37	BASE	346.76	7.91	18.50	0	0.43	0.00	35.69	0.00
10yr3d	NSLRWCD C37	BASE	347.01	7.91	18.50	0	0.43	0.00	35.70	0.00
10yr3d	NSLRWCD C37	BASE	347.26	7.91	18.50	0	0.43	0.00	35.71	0.00
10yr3d	NSLRWCD C37	BASE	347.51	7.91	18.50	0	0.43	0.00	35.72	0.00
10yr3d	NSLRWCD C37	BASE	347.76	7.90	18.50	0	0.43	0.00	35.73	0.00
10yr3d	NSLRWCD C37	BASE	348.01	7.90	18.50	0	0.43	0.00	35.74	0.00
10yr3d	NSLRWCD C37	BASE	348.26	7.90	18.50	0	0.43	0.00	35.75	0.00
10yr3d	NSLRWCD C37	BASE	348.51	7.90	18.50	0	0.43	0.00	35.76	0.00
10yr3d	NSLRWCD C37	BASE	348.76	7.89	18.50	0	0.43	0.00	35.77	0.00
10yr3d	NSLRWCD C37	BASE	349.01	7.89	18.50	0	0.43	0.00	35.78	0.00
10yr3d	NSLRWCD C37	BASE	349.26	7.89	18.50	0	0.43	0.00	35.78	0.00
10yr3d	NSLRWCD C37	BASE	349.51	7.89	18.50	0	0.43	0.00	35.79	0.00
10yr3d	NSLRWCD C37	BASE	349.76	7.88	18.50	0	0.43	0.00	35.80	0.00
10yr3d	NSLRWCD C37	BASE	350.01	7.88	18.50	0	0.43	0.00	35.81	0.00
10yr3d	NSLRWCD C37	BASE	350.26	7.88	18.50	0	0.43	0.00	35.82	0.00
10yr3d	NSLRWCD C37	BASE	350.51	7.88	18.50	0	0.43	0.00	35.83	0.00
10yr3d	NSLRWCD C37	BASE	350.76	7.87	18.50	0	0.42	0.00	35.84	0.00
10yr3d	NSLRWCD C37	BASE	351.01	7.87	18.50	0	0.42	0.00	35.85	0.00
10yr3d	NSLRWCD C37	BASE	351.26	7.87	18.50	0	0.42	0.00	35.85	0.00
10yr3d	NSLRWCD C37	BASE	351.51	7.87	18.50	0	0.42	0.00	35.86	0.00
10yr3d	NSLRWCD C37	BASE	351.76	7.86	18.50	0	0.42	0.00	35.87	0.00
10yr3d	NSLRWCD C37	BASE	352.01	7.86	18.50	0	0.42	0.00	35.88	0.00
10yr3d	NSLRWCD C37	BASE	352.26	7.86	18.50	0	0.42	0.00	35.89	0.00
10yr3d	NSLRWCD C37	BASE	352.51	7.86	18.50	0	0.42	0.00	35.90	0.00
10yr3d	NSLRWCD C37	BASE	352.76	7.85	18.50	0	0.42	0.00	35.91	0.00
10yr3d	NSLRWCD C37	BASE	353.01	7.85	18.50	0	0.42	0.00	35.92	0.00
10yr3d	NSLRWCD C37	BASE	353.26	7.85	18.50	0	0.42	0.00	35.92	0.00
10yr3d	NSLRWCD C37	BASE	353.51	7.85	18.50	0	0.42	0.00	35.93	0.00
10yr3d	NSLRWCD C37	BASE	353.76	7.84	18.50	0	0.42	0.00	35.94	0.00
10yr3d	NSLRWCD C37	BASE	354.01	7.84	18.50	0	0.42	0.00	35.95	0.00
10yr3d	NSLRWCD C37	BASE	354.26	7.84	18.50	0	0.42	0.00	35.96	0.00
10yr3d	NSLRWCD C37	BASE	354.51	7.84	18.50	0	0.42	0.00	35.97	0.00
10yr3d	NSLRWCD C37	BASE	354.76	7.83	18.50	0	0.42	0.00	35.98	0.00
10yr3d	NSLRWCD C37	BASE	355.01	7.83	18.50	0	0.42	0.00	35.98	0.00
10yr3d	NSLRWCD C37	BASE	355.26	7.83	18.50	0	0.42	0.00	35.99	0.00
10yr3d	NSLRWCD C37	BASE	355.51	7.83	18.50	0	0.42	0.00	36.00	0.00
10yr3d	NSLRWCD C37	BASE	355.76	7.82	18.50	0	0.41	0.00	36.01	0.00
10yr3d	NSLRWCD C37	BASE	356.01	7.82	18.50	0	0.41	0.00	36.02	0.00
10yr3d	NSLRWCD C37	BASE	356.26	7.82	18.50	0	0.41	0.00	36.03	0.00
10yr3d	NSLRWCD C37	BASE	356.51	7.82	18.50	0	0.41	0.00	36.04	0.00
10yr3d	NSLRWCD C37	BASE	356.76	7.81	18.50	0	0.41	0.00	36.04	0.00
10yr3d	NSLRWCD C37	BASE	357.01	7.81	18.50	0	0.41	0.00	36.05	0.00
10yr3d	NSLRWCD C37	BASE	357.26	7.81	18.50	0	0.41	0.00	36.06	0.00
10yr3d	NSLRWCD C37	BASE	357.51	7.81	18.50	0	0.41	0.00	36.07	0.00
10yr3d	NSLRWCD C37	BASE	357.76	7.80	18.50	0	0.41	0.00	36.08	0.00
10yr3d	NSLRWCD C37	BASE	358.01	7.80	18.50	0	0.41	0.00	36.09	0.00
10yr3d	NSLRWCD C37	BASE	358.26	7.80	18.50	0	0.41	0.00	36.10	0.00
10yr3d	NSLRWCD C37	BASE	358.51	7.80	18.50	0	0.41	0.00	36.10	0.00
10yr3d	NSLRWCD C37	BASE	358.76	7.79	18.50	0	0.41	0.00	36.11	0.00
10yr3d	NSLRWCD C37	BASE	359.01	7.79	18.50	0	0.41	0.00	36.12	0.00
10yr3d	NSLRWCD C37	BASE	359.26	7.79	18.50	0	0.41	0.00	36.13	0.00
10yr3d	NSLRWCD C37	BASE	359.51	7.79	18.50	0	0.41	0.00	36.14	0.00
10yr3d	NSLRWCD C37	BASE	359.76	7.78	18.50	0	0.41	0.00	36.15	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	360.01	7.78	18.50	0	0.41	0.00	36.15	0.00
10yr3d	NSLRWCD C37	BASE	360.01	7.78	18.50	0	0.41	0.00	36.15	0.00

Appendix C - ICPR Routing
Developed Condition
Recovery Storm Events

ENGINEERING DESIGN & CONSTRUCTION, INC
CIVIL ENGINEERS & SURVEYORS SPECIALIZING IN LAND DEVELOPMENT

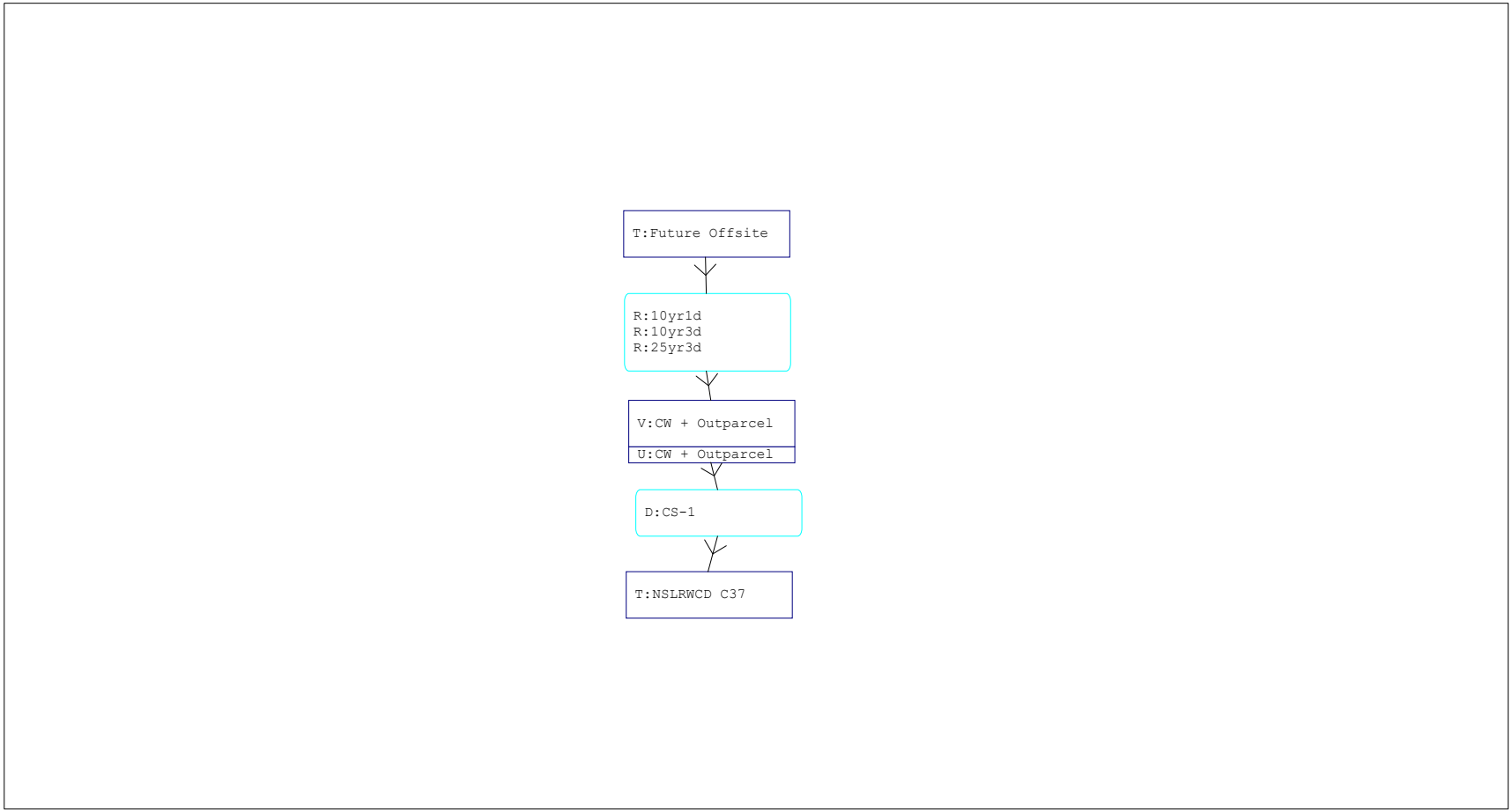
10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
772-462-2455

16-225 Camping World - Recovery Storm Routing
Nodal Diagram

Nodes
A Stage/Area
V Stage/Volume
T Time/Stage
M Manhole

Basins
O Overland Flow
U SCS Unit CN
S SBUH CN
Y SCS Unit GA
Z SBUH GA

Links
P Pipe
W Weir
C Channel
D Drop Structure
B Bridge
R Rating Curve
H Breach
E Percolation
F Filter
X Exfil Trench



Interconnected Channel and Pond Routing Model (ICPR) ©2002 Streamline Technologies, Inc.

==========
==== Basins ====
==========

Name: CW + Outparcel Node: CW + Outparcel Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 28.970 Time Shift(hrs): 0.00
Curve Number: 94.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

==========
==== Nodes ====
==========

Name: CW + Outparcel Base Flow(cfs): 0.000 Init Stage(ft): 11.100
Group: BASE Warn Stage(ft): 18.500
Type: Stage/Volume

Stage(ft)	Volume(af)
10.000	0.0000
10.500	1.6100
11.000	3.2600
11.500	4.9500
12.000	6.6700
12.500	8.4300
13.500	12.0700
14.500	16.0600
15.500	20.6900
16.500	27.4700
17.500	41.7200
18.500	64.4700

Name: Future Offsite Base Flow(cfs): 0.000 Init Stage(ft): 13.000
Group: Offsite Warn Stage(ft): 18.500
Type: Time/Stage

Time(hrs)	Stage(ft)
0.00	13.000
62.00	13.000
360.00	13.000

Name: NSLRWCD C37 Base Flow(cfs): 0.000 Init Stage(ft): 7.780
Group: BASE Warn Stage(ft): 18.500
Type: Time/Stage

Time(hrs)	Stage(ft)
0.00	7.780
62.00	7.780
360.00	7.780

==========
==== Operating Tables ====
==========

Name: 10yr1d Group: 10yr1d
Type: Rating Curve
Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
24.00	1.00
120.00	0.00

Name: 10yr3d Group: 10yr3d
Type: Rating Curve

Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
62.00	1.41
360.00	0.00

Name: 25yr3d Group: 25yr3d
Type: Rating Curve
Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
62.00	1.58
360.00	0.00

==========
==== Drop Structures ==========
==========

Name: CS-1 From Node: CW + Outparcel Length(ft): 35.00
Group: Outfalls To Node: NSLRWCD C37 Count: 1

	UPSTREAM	DOWNSTREAM		
Geometry:	Circular	Circular	Friction Equation:	Automatic
Span(in):	36.00	36.00	Solution Algorithm:	Most Restrictive
Rise(in):	36.00	36.00	Flow:	Both
Invert(ft):	8.650	8.440	Entrance Loss Coef:	0.000
Manning's N:	0.012000	0.012000	Exit Loss Coef:	1.000
Top Clip(in):	0.000	0.000	Outlet Ctrl Spec:	Use dc or tw
Bot Clip(in):	0.000	0.000	Inlet Ctrl Spec:	Use dc
			Solution Incs:	10

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Groove end projecting

*** Weir 1 of 4 for Drop Structure CS-1 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Circular	Orifice Disc Coef:	0.600
Span(in):	4.00	Invert(ft):	10.000
Rise(in):	4.00	Control Elev(ft):	10.000

*** Weir 2 of 4 for Drop Structure CS-1 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	8.00	Invert(ft):	11.600
Rise(in):	6.00	Control Elev(ft):	11.600

*** Weir 3 of 4 for Drop Structure CS-1 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	54.00	Invert(ft):	15.250
Rise(in):	6.00	Control Elev(ft):	15.250

*** Weir 4 of 4 for Drop Structure CS-1 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Horizontal	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	54.00	Invert(ft):	15.750
Rise(in):	18.00	Control Elev(ft):	15.750

```
================================================================================
==== Rating Curves =============================================================
================================================================================

         Name: 10yr1d              From Node: Future Offsite          Count: 1
        Group: 10yr1d                To Node: CW + Outparcel          Flow: Both

               TABLE           ELEV ON(ft)     ELEV OFF(ft)
           #1: 10yr1d          13.000          13.000
           #2:                 0.000           0.000
           #3:                 0.000           0.000
           #4:                 0.000           0.000



--------------------------------------------------------------------------------------------------------
         Name: 10yr3d              From Node: Future Offsite          Count: 1
        Group: 10yr3d                To Node: CW + Outparcel          Flow: Both

               TABLE           ELEV ON(ft)     ELEV OFF(ft)
           #1: 10yr3d          13.000          13.000
           #2:                 0.000           0.000
           #3:                 0.000           0.000
           #4:                 0.000           0.000



--------------------------------------------------------------------------------------------------------
         Name: 25yr3d              From Node: Future Offsite          Count: 1
        Group: 25yr3d                To Node: CW + Outparcel          Flow: Both

               TABLE           ELEV ON(ft)     ELEV OFF(ft)
           #1: 25yr3d          13.000          13.000
           #2:                 0.000           0.000
           #3:                 0.000           0.000
           #4:                 0.000           0.000



================================================================================
==== Hydrology Simulations =====================================================
================================================================================

          Name: 100yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\100yr3d.R32

       Override Defaults: Yes
    Storm Duration(hrs): 72.00
          Rainfall File: Sfwmd72
    Rainfall Amount(in): 12.23

Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         5.00

--------------------------------------------------------------------------------------------------------
          Name: 10yr1d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr1d.R32

       Override Defaults: Yes
    Storm Duration(hrs): 24.00
          Rainfall File: Scsiii
    Rainfall Amount(in): 6.00

Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         5.00

--------------------------------------------------------------------------------------------------------
          Name: 10yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr3d.R32

       Override Defaults: Yes
    Storm Duration(hrs): 72.00
          Rainfall File: Sfwmd72
    Rainfall Amount(in): 8.50

Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         5.00

--------------------------------------------------------------------------------------------------------
          Name: 25yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\25yr3d.R32

       Override Defaults: Yes
```

```
    Storm Duration(hrs): 72.00
          Rainfall File: Sfwmd72
    Rainfall Amount(in): 9.50

Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         5.00

================================================================================
==== Routing Simulations ======================================================
================================================================================

         Name: 100yr3d             Hydrology Sim: 100yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\100yr3d.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 360.00
     Min Calc Time(sec): 0.5000              Max Calc Time(sec): 60.0000
        Boundary Stages:                         Boundary Flows:


Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         15.000

Group           Run
--------------- -----
BASE            Yes
Offsite         Yes


--------------------------------------------------------------------------------------------------------
         Name: 10yr1d              Hydrology Sim: 10yr1d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr1d.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 360.00
     Min Calc Time(sec): 0.5000              Max Calc Time(sec): 60.0000
        Boundary Stages: 10yr1d                  Boundary Flows:


Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         15.000

Group           Run
--------------- -----
10yr1d          Yes
BASE            Yes
Offsite         Yes
Outfalls        Yes


--------------------------------------------------------------------------------------------------------
         Name: 10yr3d              Hydrology Sim: 10yr3d
     Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr3d.I32

      Execute: Yes         Restart: No            Patch: No
  Alternative: No

        Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500
    Time Step Optimizer: 10.000
        Start Time(hrs): 0.000                    End Time(hrs): 360.00
     Min Calc Time(sec): 0.5000              Max Calc Time(sec): 60.0000
        Boundary Stages: 10yr3d                  Boundary Flows:


Time(hrs)       Print Inc(min)
--------------- ---------------
360.000         15.000

Group           Run
--------------- -----
10yr3d          Yes
BASE            Yes
Offsite         Yes
```

Outfalls Yes

Name: 25yr3d Hydrology Sim: 25yr3d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\25yr3d.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 360.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: 10yr3d Boundary Flows:

Time(hrs)	Print Inc(min)
360.000	15.000

Group	Run
25yr3d	Yes
BASE	Yes
Offsite	Yes
Outfalls	Yes

==== Boundary Conditions ====

Name: 10yr1d Node: NSLRWCD C37 Type: Stage

Time(hrs)	Stage(ft)
0.000	7.780
1.330	9.420
2.670	9.730
4.000	10.770
5.330	10.140
6.670	9.590
8.000	9.420
9.330	9.530
10.670	9.770
12.000	11.060
13.330	10.300
14.670	9.650
16.000	9.450
17.330	9.650
18.670	10.010
20.000	11.950
21.330	10.810
22.670	9.830
24.000	9.530
360.000	7.780

Name: 10yr3d Node: NSLRWCD C37 Type: Stage

Time(hrs)	Stage(ft)
0.000	7.780
4.000	10.580
8.000	10.950
12.000	12.060
16.000	11.360
20.000	10.760
24.000	10.580
28.000	10.700
32.000	10.960
36.000	12.390
40.000	11.540
44.000	10.830
48.000	10.610
52.000	10.830
56.000	11.230
60.000	13.370
64.000	12.110
68.000	11.020
72.000	10.700
360.000	7.780

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CW + Outparcel	BASE	100yr3d	73.00	16.68	18.50	0.0050	520942	60.00	155.99	0.00	0.00
CW + Outparcel	BASE	10yr1d	20.17	13.98	18.50	0.0050	176465	12.25	101.23	18.47	3.15
CW + Outparcel	BASE	10yr3d	68.21	15.32	18.50	0.0050	237336	60.00	109.13	68.24	4.10
CW + Outparcel	BASE	25yr3d	64.28	15.55	18.50	0.0050	258455	60.00	122.31	64.76	6.12
Future Offsite	Offsite	100yr3d	0.00	13.00	18.50	0.0000	0	0.00	0.00	0.00	0.00
Future Offsite	Offsite	10yr1d	0.00	13.00	18.50	0.0000	0	0.00	0.00	24.00	1.00
Future Offsite	Offsite	10yr3d	0.00	13.00	18.50	0.0000	0	0.00	0.00	62.01	1.41
Future Offsite	Offsite	25yr3d	0.00	13.00	18.50	0.0000	0	0.00	0.00	62.01	1.58
NSLRWCD C37	BASE	100yr3d	0.00	7.78	18.50	0.0000	0	0.00	0.00	0.00	0.00
NSLRWCD C37	BASE	10yr1d	20.00	11.95	18.50	0.0243	0	18.47	3.15	0.00	0.00
NSLRWCD C37	BASE	10yr3d	60.00	13.37	18.50	0.0117	0	68.24	4.10	0.00	0.00
NSLRWCD C37	BASE	25yr3d	60.00	13.37	18.50	0.0117	0	64.76	6.12	0.00	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	0.00	7.78	18.50	0	0.41	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	0.26	7.96	18.50	0	0.41	0.00	0.01	0.00
10yr3d	NSLRWCD C37	BASE	0.50	8.13	18.50	0	0.40	0.00	0.02	0.00
10yr3d	NSLRWCD C37	BASE	0.77	8.32	18.50	0	0.40	0.00	0.03	0.00
10yr3d	NSLRWCD C37	BASE	1.02	8.49	18.50	0	0.40	0.00	0.03	0.00
10yr3d	NSLRWCD C37	BASE	1.27	8.67	18.50	0	0.40	0.00	0.04	0.00
10yr3d	NSLRWCD C37	BASE	1.52	8.84	18.50	0	0.40	0.00	0.05	0.00
10yr3d	NSLRWCD C37	BASE	1.77	9.02	18.50	0	0.40	0.00	0.06	0.00
10yr3d	NSLRWCD C37	BASE	2.02	9.19	18.50	0	0.40	0.00	0.07	0.00
10yr3d	NSLRWCD C37	BASE	2.27	9.37	18.50	0	0.40	0.00	0.08	0.00
10yr3d	NSLRWCD C37	BASE	2.52	9.54	18.50	0	0.40	0.00	0.08	0.00
10yr3d	NSLRWCD C37	BASE	2.77	9.72	18.50	0	0.40	0.00	0.09	0.00
10yr3d	NSLRWCD C37	BASE	3.02	9.89	18.50	0	0.40	0.00	0.10	0.00
10yr3d	NSLRWCD C37	BASE	3.27	10.07	18.50	0	0.40	0.00	0.11	0.00
10yr3d	NSLRWCD C37	BASE	3.52	10.24	18.50	0	0.38	0.00	0.12	0.00
10yr3d	NSLRWCD C37	BASE	3.77	10.42	18.50	0	0.34	0.00	0.12	0.00
10yr3d	NSLRWCD C37	BASE	4.02	10.58	18.50	0	0.29	0.00	0.13	0.00
10yr3d	NSLRWCD C37	BASE	4.27	10.60	18.50	0	0.28	0.00	0.14	0.00
10yr3d	NSLRWCD C37	BASE	4.52	10.63	18.50	0	0.28	0.00	0.14	0.00
10yr3d	NSLRWCD C37	BASE	4.77	10.65	18.50	0	0.27	0.00	0.15	0.00
10yr3d	NSLRWCD C37	BASE	5.02	10.67	18.50	0	0.26	0.00	0.15	0.00
10yr3d	NSLRWCD C37	BASE	5.27	10.70	18.50	0	0.25	0.00	0.16	0.00
10yr3d	NSLRWCD C37	BASE	5.52	10.72	18.50	0	0.25	0.00	0.16	0.00
10yr3d	NSLRWCD C37	BASE	5.77	10.74	18.50	0	0.24	0.00	0.17	0.00
10yr3d	NSLRWCD C37	BASE	6.02	10.77	18.50	0	0.23	0.00	0.17	0.00
10yr3d	NSLRWCD C37	BASE	6.27	10.79	18.50	0	0.22	0.00	0.18	0.00
10yr3d	NSLRWCD C37	BASE	6.52	10.81	18.50	0	0.21	0.00	0.18	0.00
10yr3d	NSLRWCD C37	BASE	6.77	10.84	18.50	0	0.20	0.00	0.19	0.00
10yr3d	NSLRWCD C37	BASE	7.02	10.86	18.50	0	0.19	0.00	0.19	0.00
10yr3d	NSLRWCD C37	BASE	7.27	10.88	18.50	0	0.18	0.00	0.20	0.00
10yr3d	NSLRWCD C37	BASE	7.52	10.91	18.50	0	0.17	0.00	0.20	0.00
10yr3d	NSLRWCD C37	BASE	7.77	10.93	18.50	0	0.16	0.00	0.20	0.00
10yr3d	NSLRWCD C37	BASE	8.02	10.95	18.50	0	0.15	0.00	0.21	0.00
10yr3d	NSLRWCD C37	BASE	8.27	11.02	18.50	0	0.10	0.00	0.21	0.00
10yr3d	NSLRWCD C37	BASE	8.52	11.09	18.50	0	-0.03	0.00	0.21	0.00
10yr3d	NSLRWCD C37	BASE	8.77	11.16	18.50	0	-0.11	0.00	0.21	0.00
10yr3d	NSLRWCD C37	BASE	9.02	11.23	18.50	0	-0.15	0.00	0.20	0.00
10yr3d	NSLRWCD C37	BASE	9.27	11.30	18.50	0	-0.19	0.00	0.20	0.00
10yr3d	NSLRWCD C37	BASE	9.52	11.37	18.50	0	-0.21	0.00	0.20	0.00
10yr3d	NSLRWCD C37	BASE	9.77	11.44	18.50	0	-0.24	0.00	0.19	0.00
10yr3d	NSLRWCD C37	BASE	10.02	11.51	18.50	0	-0.26	0.00	0.19	0.00
10yr3d	NSLRWCD C37	BASE	10.27	11.58	18.50	0	-0.28	0.00	0.18	0.00
10yr3d	NSLRWCD C37	BASE	10.52	11.65	18.50	0	-0.32	0.00	0.18	0.00
10yr3d	NSLRWCD C37	BASE	10.77	11.72	18.50	0	-0.40	0.00	0.17	0.00
10yr3d	NSLRWCD C37	BASE	11.02	11.79	18.50	0	-0.50	0.00	0.16	0.00
10yr3d	NSLRWCD C37	BASE	11.27	11.86	18.50	0	-0.62	0.00	0.15	0.00
10yr3d	NSLRWCD C37	BASE	11.52	11.93	18.50	0	-0.75	0.00	0.13	0.00
10yr3d	NSLRWCD C37	BASE	11.77	12.00	18.50	0	-0.90	0.00	0.12	0.00
10yr3d	NSLRWCD C37	BASE	12.02	12.06	18.50	0	-1.04	0.00	0.10	0.00
10yr3d	NSLRWCD C37	BASE	12.27	12.01	18.50	0	-0.93	0.00	0.08	0.00
10yr3d	NSLRWCD C37	BASE	12.52	11.97	18.50	0	-0.84	0.00	0.06	0.00
10yr3d	NSLRWCD C37	BASE	12.77	11.93	18.50	0	-0.74	0.00	0.04	0.00
10yr3d	NSLRWCD C37	BASE	13.02	11.88	18.50	0	-0.65	0.00	0.03	0.00
10yr3d	NSLRWCD C37	BASE	13.27	11.84	18.50	0	-0.57	0.00	0.01	0.00
10yr3d	NSLRWCD C37	BASE	13.52	11.79	18.50	0	-0.49	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	13.77	11.75	18.50	0	-0.42	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	14.02	11.71	18.50	0	-0.35	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	14.27	11.66	18.50	0	-0.29	0.00	-0.02	0.00
10yr3d	NSLRWCD C37	BASE	14.52	11.62	18.50	0	-0.25	0.00	-0.03	0.00
10yr3d	NSLRWCD C37	BASE	14.77	11.58	18.50	0	-0.22	0.00	-0.03	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	15.02	11.53	18.50	0	-0.20	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	15.27	11.49	18.50	0	-0.18	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	15.52	11.44	18.50	0	-0.15	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	15.77	11.40	18.50	0	-0.12	0.00	-0.05	0.00
10yr3d	NSLRWCD C37	BASE	16.02	11.36	18.50	0	-0.07	0.00	-0.05	0.00
10yr3d	NSLRWCD C37	BASE	16.27	11.32	18.50	0	0.05	0.00	-0.05	0.00
10yr3d	NSLRWCD C37	BASE	16.52	11.28	18.50	0	0.10	0.00	-0.05	0.00
10yr3d	NSLRWCD C37	BASE	16.77	11.25	18.50	0	0.13	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	17.02	11.21	18.50	0	0.16	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	17.27	11.17	18.50	0	0.18	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	17.52	11.13	18.50	0	0.20	0.00	-0.03	0.00
10yr3d	NSLRWCD C37	BASE	17.77	11.10	18.50	0	0.22	0.00	-0.03	0.00
10yr3d	NSLRWCD C37	BASE	18.02	11.06	18.50	0	0.24	0.00	-0.02	0.00
10yr3d	NSLRWCD C37	BASE	18.27	11.02	18.50	0	0.25	0.00	-0.02	0.00
10yr3d	NSLRWCD C37	BASE	18.52	10.98	18.50	0	0.27	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	18.77	10.95	18.50	0	0.28	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	19.02	10.91	18.50	0	0.29	0.00	-0.00	0.00
10yr3d	NSLRWCD C37	BASE	19.27	10.87	18.50	0	0.31	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	19.52	10.83	18.50	0	0.32	0.00	0.01	0.00
10yr3d	NSLRWCD C37	BASE	19.77	10.80	18.50	0	0.33	0.00	0.02	0.00
10yr3d	NSLRWCD C37	BASE	20.02	10.76	18.50	0	0.34	0.00	0.02	0.00
10yr3d	NSLRWCD C37	BASE	20.27	10.75	18.50	0	0.35	0.00	0.03	0.00
10yr3d	NSLRWCD C37	BASE	20.52	10.74	18.50	0	0.35	0.00	0.04	0.00
10yr3d	NSLRWCD C37	BASE	20.77	10.73	18.50	0	0.35	0.00	0.05	0.00
10yr3d	NSLRWCD C37	BASE	21.02	10.71	18.50	0	0.36	0.00	0.05	0.00
10yr3d	NSLRWCD C37	BASE	21.27	10.70	18.50	0	0.36	0.00	0.06	0.00
10yr3d	NSLRWCD C37	BASE	21.52	10.69	18.50	0	0.37	0.00	0.07	0.00
10yr3d	NSLRWCD C37	BASE	21.77	10.68	18.50	0	0.37	0.00	0.08	0.00
10yr3d	NSLRWCD C37	BASE	22.02	10.67	18.50	0	0.38	0.00	0.08	0.00
10yr3d	NSLRWCD C37	BASE	22.27	10.66	18.50	0	0.38	0.00	0.09	0.00
10yr3d	NSLRWCD C37	BASE	22.52	10.65	18.50	0	0.38	0.00	0.10	0.00
10yr3d	NSLRWCD C37	BASE	22.77	10.64	18.50	0	0.39	0.00	0.11	0.00
10yr3d	NSLRWCD C37	BASE	23.02	10.62	18.50	0	0.39	0.00	0.11	0.00
10yr3d	NSLRWCD C37	BASE	23.27	10.61	18.50	0	0.40	0.00	0.12	0.00
10yr3d	NSLRWCD C37	BASE	23.52	10.60	18.50	0	0.40	0.00	0.13	0.00
10yr3d	NSLRWCD C37	BASE	23.77	10.59	18.50	0	0.40	0.00	0.14	0.00
10yr3d	NSLRWCD C37	BASE	24.02	10.58	18.50	0	0.41	0.00	0.15	0.00
10yr3d	NSLRWCD C37	BASE	24.27	10.59	18.50	0	0.41	0.00	0.16	0.00
10yr3d	NSLRWCD C37	BASE	24.52	10.60	18.50	0	0.41	0.00	0.16	0.00
10yr3d	NSLRWCD C37	BASE	24.77	10.60	18.50	0	0.41	0.00	0.17	0.00
10yr3d	NSLRWCD C37	BASE	25.02	10.61	18.50	0	0.41	0.00	0.18	0.00
10yr3d	NSLRWCD C37	BASE	25.27	10.62	18.50	0	0.41	0.00	0.19	0.00
10yr3d	NSLRWCD C37	BASE	25.52	10.63	18.50	0	0.41	0.00	0.20	0.00
10yr3d	NSLRWCD C37	BASE	25.77	10.63	18.50	0	0.41	0.00	0.21	0.00
10yr3d	NSLRWCD C37	BASE	26.02	10.64	18.50	0	0.41	0.00	0.22	0.00
10yr3d	NSLRWCD C37	BASE	26.27	10.65	18.50	0	0.41	0.00	0.22	0.00
10yr3d	NSLRWCD C37	BASE	26.52	10.66	18.50	0	0.41	0.00	0.23	0.00
10yr3d	NSLRWCD C37	BASE	26.77	10.66	18.50	0	0.41	0.00	0.24	0.00
10yr3d	NSLRWCD C37	BASE	27.02	10.67	18.50	0	0.42	0.00	0.25	0.00
10yr3d	NSLRWCD C37	BASE	27.27	10.68	18.50	0	0.42	0.00	0.26	0.00
10yr3d	NSLRWCD C37	BASE	27.52	10.69	18.50	0	0.43	0.00	0.27	0.00
10yr3d	NSLRWCD C37	BASE	27.77	10.69	18.50	0	0.44	0.00	0.28	0.00
10yr3d	NSLRWCD C37	BASE	28.02	10.70	18.50	0	0.44	0.00	0.28	0.00
10yr3d	NSLRWCD C37	BASE	28.27	10.72	18.50	0	0.45	0.00	0.29	0.00
10yr3d	NSLRWCD C37	BASE	28.52	10.73	18.50	0	0.46	0.00	0.30	0.00
10yr3d	NSLRWCD C37	BASE	28.77	10.75	18.50	0	0.47	0.00	0.31	0.00
10yr3d	NSLRWCD C37	BASE	29.02	10.77	18.50	0	0.47	0.00	0.32	0.00
10yr3d	NSLRWCD C37	BASE	29.27	10.78	18.50	0	0.48	0.00	0.33	0.00
10yr3d	NSLRWCD C37	BASE	29.52	10.80	18.50	0	0.49	0.00	0.34	0.00
10yr3d	NSLRWCD C37	BASE	29.77	10.81	18.50	0	0.50	0.00	0.35	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	30.02	10.83	18.50	0	0.51	0.00	0.36	0.00
10yr3d	NSLRWCD C37	BASE	30.27	10.85	18.50	0	0.52	0.00	0.37	0.00
10yr3d	NSLRWCD C37	BASE	30.52	10.86	18.50	0	0.53	0.00	0.38	0.00
10yr3d	NSLRWCD C37	BASE	30.77	10.88	18.50	0	0.54	0.00	0.40	0.00
10yr3d	NSLRWCD C37	BASE	31.02	10.90	18.50	0	0.55	0.00	0.41	0.00
10yr3d	NSLRWCD C37	BASE	31.27	10.91	18.50	0	0.56	0.00	0.42	0.00
10yr3d	NSLRWCD C37	BASE	31.52	10.93	18.50	0	0.57	0.00	0.43	0.00
10yr3d	NSLRWCD C37	BASE	31.77	10.94	18.50	0	0.58	0.00	0.44	0.00
10yr3d	NSLRWCD C37	BASE	32.02	10.97	18.50	0	0.60	0.00	0.45	0.00
10yr3d	NSLRWCD C37	BASE	32.27	11.06	18.50	0	0.59	0.00	0.47	0.00
10yr3d	NSLRWCD C37	BASE	32.52	11.14	18.50	0	0.59	0.00	0.48	0.00
10yr3d	NSLRWCD C37	BASE	32.77	11.23	18.50	0	0.58	0.00	0.49	0.00
10yr3d	NSLRWCD C37	BASE	33.02	11.32	18.50	0	0.57	0.00	0.50	0.00
10yr3d	NSLRWCD C37	BASE	33.27	11.41	18.50	0	0.56	0.00	0.51	0.00
10yr3d	NSLRWCD C37	BASE	33.52	11.50	18.50	0	0.55	0.00	0.53	0.00
10yr3d	NSLRWCD C37	BASE	33.77	11.59	18.50	0	0.54	0.00	0.54	0.00
10yr3d	NSLRWCD C37	BASE	34.02	11.68	18.50	0	0.50	0.00	0.55	0.00
10yr3d	NSLRWCD C37	BASE	34.27	11.77	18.50	0	0.43	0.00	0.56	0.00
10yr3d	NSLRWCD C37	BASE	34.52	11.86	18.50	0	0.30	0.00	0.57	0.00
10yr3d	NSLRWCD C37	BASE	34.77	11.95	18.50	0	-0.21	0.00	0.57	0.00
10yr3d	NSLRWCD C37	BASE	35.02	12.04	18.50	0	-0.52	0.00	0.56	0.00
10yr3d	NSLRWCD C37	BASE	35.27	12.13	18.50	0	-0.76	0.00	0.55	0.00
10yr3d	NSLRWCD C37	BASE	35.52	12.22	18.50	0	-0.99	0.00	0.53	0.00
10yr3d	NSLRWCD C37	BASE	35.77	12.31	18.50	0	-1.12	0.00	0.51	0.00
10yr3d	NSLRWCD C37	BASE	36.02	12.39	18.50	0	-1.22	0.00	0.48	0.00
10yr3d	NSLRWCD C37	BASE	36.27	12.33	18.50	0	-1.10	0.00	0.46	0.00
10yr3d	NSLRWCD C37	BASE	36.52	12.28	18.50	0	-0.95	0.00	0.44	0.00
10yr3d	NSLRWCD C37	BASE	36.77	12.23	18.50	0	-0.78	0.00	0.42	0.00
10yr3d	NSLRWCD C37	BASE	37.02	12.17	18.50	0	-0.52	0.00	0.40	0.00
10yr3d	NSLRWCD C37	BASE	37.27	12.12	18.50	0	-0.22	0.00	0.40	0.00
10yr3d	NSLRWCD C37	BASE	37.52	12.07	18.50	0	0.40	0.00	0.40	0.00
10yr3d	NSLRWCD C37	BASE	37.77	12.01	18.50	0	0.65	0.00	0.41	0.00
10yr3d	NSLRWCD C37	BASE	38.02	11.96	18.50	0	0.80	0.00	0.43	0.00
10yr3d	NSLRWCD C37	BASE	38.27	11.91	18.50	0	0.93	0.00	0.44	0.00
10yr3d	NSLRWCD C37	BASE	38.52	11.86	18.50	0	1.04	0.00	0.46	0.00
10yr3d	NSLRWCD C37	BASE	38.77	11.80	18.50	0	1.11	0.00	0.49	0.00
10yr3d	NSLRWCD C37	BASE	39.02	11.75	18.50	0	1.16	0.00	0.51	0.00
10yr3d	NSLRWCD C37	BASE	39.27	11.70	18.50	0	1.20	0.00	0.53	0.00
10yr3d	NSLRWCD C37	BASE	39.52	11.64	18.50	0	1.23	0.00	0.56	0.00
10yr3d	NSLRWCD C37	BASE	39.77	11.59	18.50	0	1.26	0.00	0.58	0.00
10yr3d	NSLRWCD C37	BASE	40.02	11.54	18.50	0	1.29	0.00	0.61	0.00
10yr3d	NSLRWCD C37	BASE	40.27	11.49	18.50	0	1.31	0.00	0.64	0.00
10yr3d	NSLRWCD C37	BASE	40.52	11.45	18.50	0	1.33	0.00	0.66	0.00
10yr3d	NSLRWCD C37	BASE	40.77	11.40	18.50	0	1.35	0.00	0.69	0.00
10yr3d	NSLRWCD C37	BASE	41.02	11.36	18.50	0	1.37	0.00	0.72	0.00
10yr3d	NSLRWCD C37	BASE	41.27	11.32	18.50	0	1.39	0.00	0.75	0.00
10yr3d	NSLRWCD C37	BASE	41.52	11.27	18.50	0	1.41	0.00	0.78	0.00
10yr3d	NSLRWCD C37	BASE	41.77	11.23	18.50	0	1.43	0.00	0.81	0.00
10yr3d	NSLRWCD C37	BASE	42.02	11.18	18.50	0	1.45	0.00	0.84	0.00
10yr3d	NSLRWCD C37	BASE	42.27	11.14	18.50	0	1.47	0.00	0.87	0.00
10yr3d	NSLRWCD C37	BASE	42.52	11.09	18.50	0	1.48	0.00	0.90	0.00
10yr3d	NSLRWCD C37	BASE	42.77	11.05	18.50	0	1.50	0.00	0.93	0.00
10yr3d	NSLRWCD C37	BASE	43.02	11.00	18.50	0	1.52	0.00	0.96	0.00
10yr3d	NSLRWCD C37	BASE	43.27	10.96	18.50	0	1.53	0.00	0.99	0.00
10yr3d	NSLRWCD C37	BASE	43.52	10.92	18.50	0	1.55	0.00	1.02	0.00
10yr3d	NSLRWCD C37	BASE	43.77	10.87	18.50	0	1.56	0.00	1.06	0.00
10yr3d	NSLRWCD C37	BASE	44.02	10.83	18.50	0	1.58	0.00	1.09	0.00
10yr3d	NSLRWCD C37	BASE	44.27	10.82	18.50	0	1.59	0.00	1.12	0.00
10yr3d	NSLRWCD C37	BASE	44.52	10.80	18.50	0	1.60	0.00	1.15	0.00
10yr3d	NSLRWCD C37	BASE	44.77	10.79	18.50	0	1.61	0.00	1.19	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	45.02	10.77	18.50	0	1.62	0.00	1.22	0.00
10yr3d	NSLRWCD C37	BASE	45.27	10.76	18.50	0	1.63	0.00	1.25	0.00
10yr3d	NSLRWCD C37	BASE	45.52	10.75	18.50	0	1.64	0.00	1.29	0.00
10yr3d	NSLRWCD C37	BASE	45.77	10.73	18.50	0	1.65	0.00	1.32	0.00
10yr3d	NSLRWCD C37	BASE	46.02	10.72	18.50	0	1.66	0.00	1.36	0.00
10yr3d	NSLRWCD C37	BASE	46.27	10.71	18.50	0	1.67	0.00	1.39	0.00
10yr3d	NSLRWCD C37	BASE	46.52	10.69	18.50	0	1.67	0.00	1.42	0.00
10yr3d	NSLRWCD C37	BASE	46.77	10.68	18.50	0	1.68	0.00	1.46	0.00
10yr3d	NSLRWCD C37	BASE	47.02	10.66	18.50	0	1.69	0.00	1.49	0.00
10yr3d	NSLRWCD C37	BASE	47.27	10.65	18.50	0	1.70	0.00	1.53	0.00
10yr3d	NSLRWCD C37	BASE	47.52	10.64	18.50	0	1.71	0.00	1.56	0.00
10yr3d	NSLRWCD C37	BASE	47.77	10.62	18.50	0	1.72	0.00	1.60	0.00
10yr3d	NSLRWCD C37	BASE	48.02	10.61	18.50	0	1.73	0.00	1.64	0.00
10yr3d	NSLRWCD C37	BASE	48.27	10.62	18.50	0	1.73	0.00	1.67	0.00
10yr3d	NSLRWCD C37	BASE	48.52	10.64	18.50	0	1.74	0.00	1.71	0.00
10yr3d	NSLRWCD C37	BASE	48.77	10.65	18.50	0	1.74	0.00	1.74	0.00
10yr3d	NSLRWCD C37	BASE	49.02	10.67	18.50	0	1.75	0.00	1.78	0.00
10yr3d	NSLRWCD C37	BASE	49.27	10.68	18.50	0	1.75	0.00	1.81	0.00
10yr3d	NSLRWCD C37	BASE	49.52	10.69	18.50	0	1.76	0.00	1.85	0.00
10yr3d	NSLRWCD C37	BASE	49.77	10.71	18.50	0	1.77	0.00	1.89	0.00
10yr3d	NSLRWCD C37	BASE	50.02	10.72	18.50	0	1.77	0.00	1.92	0.00
10yr3d	NSLRWCD C37	BASE	50.27	10.73	18.50	0	1.78	0.00	1.96	0.00
10yr3d	NSLRWCD C37	BASE	50.52	10.75	18.50	0	1.79	0.00	2.00	0.00
10yr3d	NSLRWCD C37	BASE	50.77	10.76	18.50	0	1.79	0.00	2.03	0.00
10yr3d	NSLRWCD C37	BASE	51.02	10.78	18.50	0	1.80	0.00	2.07	0.00
10yr3d	NSLRWCD C37	BASE	51.27	10.79	18.50	0	1.81	0.00	2.11	0.00
10yr3d	NSLRWCD C37	BASE	51.52	10.80	18.50	0	1.82	0.00	2.15	0.00
10yr3d	NSLRWCD C37	BASE	51.77	10.82	18.50	0	1.83	0.00	2.18	0.00
10yr3d	NSLRWCD C37	BASE	52.02	10.83	18.50	0	1.83	0.00	2.22	0.00
10yr3d	NSLRWCD C37	BASE	52.27	10.86	18.50	0	1.84	0.00	2.26	0.00
10yr3d	NSLRWCD C37	BASE	52.52	10.88	18.50	0	1.85	0.00	2.30	0.00
10yr3d	NSLRWCD C37	BASE	52.77	10.91	18.50	0	1.86	0.00	2.34	0.00
10yr3d	NSLRWCD C37	BASE	53.02	10.93	18.50	0	1.87	0.00	2.38	0.00
10yr3d	NSLRWCD C37	BASE	53.27	10.96	18.50	0	1.89	0.00	2.41	0.00
10yr3d	NSLRWCD C37	BASE	53.52	10.98	18.50	0	1.90	0.00	2.45	0.00
10yr3d	NSLRWCD C37	BASE	53.77	11.01	18.50	0	1.91	0.00	2.49	0.00
10yr3d	NSLRWCD C37	BASE	54.02	11.03	18.50	0	1.93	0.00	2.53	0.00
10yr3d	NSLRWCD C37	BASE	54.27	11.06	18.50	0	1.94	0.00	2.57	0.00
10yr3d	NSLRWCD C37	BASE	54.52	11.08	18.50	0	1.96	0.00	2.61	0.00
10yr3d	NSLRWCD C37	BASE	54.77	11.11	18.50	0	1.98	0.00	2.65	0.00
10yr3d	NSLRWCD C37	BASE	55.02	11.13	18.50	0	2.00	0.00	2.69	0.00
10yr3d	NSLRWCD C37	BASE	55.27	11.16	18.50	0	2.02	0.00	2.74	0.00
10yr3d	NSLRWCD C37	BASE	55.52	11.18	18.50	0	2.04	0.00	2.78	0.00
10yr3d	NSLRWCD C37	BASE	55.77	11.21	18.50	0	2.06	0.00	2.82	0.00
10yr3d	NSLRWCD C37	BASE	56.02	11.24	18.50	0	2.08	0.00	2.86	0.00
10yr3d	NSLRWCD C37	BASE	56.27	11.37	18.50	0	2.08	0.00	2.91	0.00
10yr3d	NSLRWCD C37	BASE	56.52	11.51	18.50	0	2.08	0.00	2.95	0.00
10yr3d	NSLRWCD C37	BASE	56.77	11.64	18.50	0	2.09	0.00	2.99	0.00
10yr3d	NSLRWCD C37	BASE	57.02	11.77	18.50	0	2.09	0.00	3.03	0.00
10yr3d	NSLRWCD C37	BASE	57.27	11.91	18.50	0	2.04	0.00	3.08	0.00
10yr3d	NSLRWCD C37	BASE	57.52	12.04	18.50	0	1.94	0.00	3.12	0.00
10yr3d	NSLRWCD C37	BASE	57.77	12.17	18.50	0	1.83	0.00	3.16	0.00
10yr3d	NSLRWCD C37	BASE	58.02	12.31	18.50	0	1.73	0.00	3.19	0.00
10yr3d	NSLRWCD C37	BASE	58.27	12.44	18.50	0	1.62	0.00	3.23	0.00
10yr3d	NSLRWCD C37	BASE	58.52	12.58	18.50	0	1.50	0.00	3.26	0.00
10yr3d	NSLRWCD C37	BASE	58.77	12.71	18.50	0	1.39	0.00	3.29	0.00
10yr3d	NSLRWCD C37	BASE	59.02	12.84	18.50	0	1.28	0.00	3.32	0.00
10yr3d	NSLRWCD C37	BASE	59.26	12.97	18.50	0	1.18	0.00	3.34	0.00
10yr3d	NSLRWCD C37	BASE	59.50	13.10	18.50	0	1.11	0.00	3.37	0.00
10yr3d	NSLRWCD C37	BASE	59.75	13.24	18.50	0	1.31	0.00	3.39	0.00

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	60.00	13.37	18.50	0	1.78	0.00	3.42	0.00
10yr3d	NSLRWCD C37	BASE	60.25	13.29	18.50	0	2.28	0.00	3.47	0.00
10yr3d	NSLRWCD C37	BASE	60.50	13.21	18.50	0	2.53	0.00	3.51	0.00
10yr3d	NSLRWCD C37	BASE	60.75	13.13	18.50	0	2.68	0.00	3.57	0.00
10yr3d	NSLRWCD C37	BASE	61.00	13.05	18.50	0	2.79	0.00	3.63	0.00
10yr3d	NSLRWCD C37	BASE	61.26	12.97	18.50	0	2.88	0.00	3.68	0.00
10yr3d	NSLRWCD C37	BASE	61.51	12.90	18.50	0	2.97	0.00	3.74	0.00
10yr3d	NSLRWCD C37	BASE	61.76	12.82	18.50	0	3.04	0.00	3.81	0.00
10yr3d	NSLRWCD C37	BASE	62.01	12.74	18.50	0	3.11	0.00	3.87	0.00
10yr3d	NSLRWCD C37	BASE	62.26	12.66	18.50	0	3.18	0.00	3.94	0.00
10yr3d	NSLRWCD C37	BASE	62.51	12.58	18.50	0	3.24	0.00	4.00	0.00
10yr3d	NSLRWCD C37	BASE	62.76	12.50	18.50	0	3.30	0.00	4.07	0.00
10yr3d	NSLRWCD C37	BASE	63.01	12.42	18.50	0	3.36	0.00	4.14	0.00
10yr3d	NSLRWCD C37	BASE	63.26	12.34	18.50	0	3.41	0.00	4.21	0.00
10yr3d	NSLRWCD C37	BASE	63.51	12.27	18.50	0	3.46	0.00	4.28	0.00
10yr3d	NSLRWCD C37	BASE	63.76	12.19	18.50	0	3.52	0.00	4.35	0.00
10yr3d	NSLRWCD C37	BASE	64.01	12.11	18.50	0	3.58	0.00	4.42	0.00
10yr3d	NSLRWCD C37	BASE	64.26	12.04	18.50	0	3.65	0.00	4.50	0.00
10yr3d	NSLRWCD C37	BASE	64.51	11.97	18.50	0	3.71	0.00	4.58	0.00
10yr3d	NSLRWCD C37	BASE	64.76	11.90	18.50	0	3.77	0.00	4.65	0.00
10yr3d	NSLRWCD C37	BASE	65.01	11.84	18.50	0	3.81	0.00	4.73	0.00
10yr3d	NSLRWCD C37	BASE	65.26	11.77	18.50	0	3.84	0.00	4.81	0.00
10yr3d	NSLRWCD C37	BASE	65.51	11.70	18.50	0	3.87	0.00	4.89	0.00
10yr3d	NSLRWCD C37	BASE	65.76	11.63	18.50	0	3.89	0.00	4.97	0.00
10yr3d	NSLRWCD C37	BASE	66.01	11.56	18.50	0	3.92	0.00	5.05	0.00
10yr3d	NSLRWCD C37	BASE	66.26	11.50	18.50	0	3.94	0.00	5.13	0.00
10yr3d	NSLRWCD C37	BASE	66.51	11.43	18.50	0	3.97	0.00	5.21	0.00
10yr3d	NSLRWCD C37	BASE	66.76	11.36	18.50	0	3.99	0.00	5.30	0.00
10yr3d	NSLRWCD C37	BASE	67.01	11.29	18.50	0	4.01	0.00	5.38	0.00
10yr3d	NSLRWCD C37	BASE	67.26	11.22	18.50	0	4.03	0.00	5.46	0.00
10yr3d	NSLRWCD C37	BASE	67.51	11.15	18.50	0	4.05	0.00	5.54	0.00
10yr3d	NSLRWCD C37	BASE	67.76	11.09	18.50	0	4.07	0.00	5.63	0.00
10yr3d	NSLRWCD C37	BASE	68.01	11.02	18.50	0	4.09	0.00	5.71	0.00
10yr3d	NSLRWCD C37	BASE	68.26	11.00	18.50	0	4.10	0.00	5.80	0.00
10yr3d	NSLRWCD C37	BASE	68.51	10.98	18.50	0	4.09	0.00	5.88	0.00
10yr3d	NSLRWCD C37	BASE	68.76	10.96	18.50	0	4.08	0.00	5.97	0.00
10yr3d	NSLRWCD C37	BASE	69.01	10.94	18.50	0	4.07	0.00	6.05	0.00
10yr3d	NSLRWCD C37	BASE	69.26	10.92	18.50	0	4.06	0.00	6.13	0.00
10yr3d	NSLRWCD C37	BASE	69.51	10.90	18.50	0	4.06	0.00	6.22	0.00
10yr3d	NSLRWCD C37	BASE	69.76	10.88	18.50	0	4.05	0.00	6.30	0.00
10yr3d	NSLRWCD C37	BASE	70.01	10.86	18.50	0	4.04	0.00	6.39	0.00
10yr3d	NSLRWCD C37	BASE	70.26	10.84	18.50	0	4.03	0.00	6.47	0.00
10yr3d	NSLRWCD C37	BASE	70.51	10.82	18.50	0	4.02	0.00	6.55	0.00
10yr3d	NSLRWCD C37	BASE	70.76	10.80	18.50	0	4.01	0.00	6.64	0.00
10yr3d	NSLRWCD C37	BASE	71.01	10.78	18.50	0	4.01	0.00	6.72	0.00
10yr3d	NSLRWCD C37	BASE	71.26	10.76	18.50	0	4.00	0.00	6.80	0.00
10yr3d	NSLRWCD C37	BASE	71.51	10.74	18.50	0	3.99	0.00	6.88	0.00
10yr3d	NSLRWCD C37	BASE	71.76	10.72	18.50	0	3.99	0.00	6.97	0.00
10yr3d	NSLRWCD C37	BASE	72.01	10.70	18.50	0	3.98	0.00	7.05	0.00
10yr3d	NSLRWCD C37	BASE	72.26	10.70	18.50	0	3.96	0.00	7.13	0.00
10yr3d	NSLRWCD C37	BASE	72.51	10.69	18.50	0	3.93	0.00	7.21	0.00
10yr3d	NSLRWCD C37	BASE	72.76	10.69	18.50	0	3.89	0.00	7.29	0.00
10yr3d	NSLRWCD C37	BASE	73.01	10.69	18.50	0	3.86	0.00	7.37	0.00
10yr3d	NSLRWCD C37	BASE	73.26	10.69	18.50	0	3.85	0.00	7.45	0.00
10yr3d	NSLRWCD C37	BASE	73.51	10.68	18.50	0	3.84	0.00	7.53	0.00
10yr3d	NSLRWCD C37	BASE	73.76	10.68	18.50	0	3.84	0.00	7.61	0.00
10yr3d	NSLRWCD C37	BASE	74.01	10.68	18.50	0	3.83	0.00	7.69	0.00
10yr3d	NSLRWCD C37	BASE	74.26	10.68	18.50	0	3.83	0.00	7.77	0.00
10yr3d	NSLRWCD C37	BASE	74.51	10.67	18.50	0	3.82	0.00	7.85	0.00
10yr3d	NSLRWCD C37	BASE	74.76	10.67	18.50	0	3.82	0.00	7.93	0.00

Max Discharge Volume in 24-hrs = 7.54 acft
Less than Allowable 2" over 45 ac = 7.65 acft

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	75.01	10.67	18.50	0	3.81	0.00	8.01	0.00
10yr3d	NSLRWCD C37	BASE	75.26	10.67	18.50	0	3.81	0.00	8.09	0.00
10yr3d	NSLRWCD C37	BASE	75.51	10.66	18.50	0	3.80	0.00	8.16	0.00
10yr3d	NSLRWCD C37	BASE	75.76	10.66	18.50	0	3.80	0.00	8.24	0.00
10yr3d	NSLRWCD C37	BASE	76.01	10.66	18.50	0	3.79	0.00	8.32	0.00
10yr3d	NSLRWCD C37	BASE	76.26	10.66	18.50	0	3.79	0.00	8.40	0.00
10yr3d	NSLRWCD C37	BASE	76.51	10.65	18.50	0	3.78	0.00	8.48	0.00
10yr3d	NSLRWCD C37	BASE	76.76	10.65	18.50	0	3.78	0.00	8.56	0.00
10yr3d	NSLRWCD C37	BASE	77.01	10.65	18.50	0	3.77	0.00	8.63	0.00
10yr3d	NSLRWCD C37	BASE	77.26	10.65	18.50	0	3.77	0.00	8.71	0.00
10yr3d	NSLRWCD C37	BASE	77.51	10.64	18.50	0	3.76	0.00	8.79	0.00
10yr3d	NSLRWCD C37	BASE	77.76	10.64	18.50	0	3.76	0.00	8.87	0.00
10yr3d	NSLRWCD C37	BASE	78.01	10.64	18.50	0	3.75	0.00	8.94	0.00
10yr3d	NSLRWCD C37	BASE	78.26	10.64	18.50	0	3.75	0.00	9.02	0.00
10yr3d	NSLRWCD C37	BASE	78.51	10.63	18.50	0	3.74	0.00	9.10	0.00
10yr3d	NSLRWCD C37	BASE	78.76	10.63	18.50	0	3.74	0.00	9.18	0.00
10yr3d	NSLRWCD C37	BASE	79.01	10.63	18.50	0	3.73	0.00	9.25	0.00
10yr3d	NSLRWCD C37	BASE	79.26	10.63	18.50	0	3.73	0.00	9.33	0.00
10yr3d	NSLRWCD C37	BASE	79.51	10.62	18.50	0	3.72	0.00	9.41	0.00
10yr3d	NSLRWCD C37	BASE	79.76	10.62	18.50	0	3.72	0.00	9.48	0.00
10yr3d	NSLRWCD C37	BASE	80.01	10.62	18.50	0	3.71	0.00	9.56	0.00
10yr3d	NSLRWCD C37	BASE	80.26	10.62	18.50	0	3.71	0.00	9.64	0.00
10yr3d	NSLRWCD C37	BASE	80.51	10.61	18.50	0	3.70	0.00	9.71	0.00
10yr3d	NSLRWCD C37	BASE	80.76	10.61	18.50	0	3.70	0.00	9.79	0.00
10yr3d	NSLRWCD C37	BASE	81.01	10.61	18.50	0	3.69	0.00	9.87	0.00
10yr3d	NSLRWCD C37	BASE	81.26	10.61	18.50	0	3.69	0.00	9.94	0.00
10yr3d	NSLRWCD C37	BASE	81.51	10.60	18.50	0	3.68	0.00	10.02	0.00
10yr3d	NSLRWCD C37	BASE	81.76	10.60	18.50	0	3.67	0.00	10.10	0.00
10yr3d	NSLRWCD C37	BASE	82.01	10.60	18.50	0	3.67	0.00	10.17	0.00
10yr3d	NSLRWCD C37	BASE	82.26	10.60	18.50	0	3.66	0.00	10.25	0.00
10yr3d	NSLRWCD C37	BASE	82.51	10.59	18.50	0	3.66	0.00	10.32	0.00
10yr3d	NSLRWCD C37	BASE	82.76	10.59	18.50	0	3.65	0.00	10.40	0.00
10yr3d	NSLRWCD C37	BASE	83.01	10.59	18.50	0	3.65	0.00	10.47	0.00
10yr3d	NSLRWCD C37	BASE	83.26	10.59	18.50	0	3.64	0.00	10.55	0.00
10yr3d	NSLRWCD C37	BASE	83.51	10.58	18.50	0	3.64	0.00	10.62	0.00
10yr3d	NSLRWCD C37	BASE	83.76	10.58	18.50	0	3.63	0.00	10.70	0.00
10yr3d	NSLRWCD C37	BASE	84.01	10.58	18.50	0	3.63	0.00	10.77	0.00
10yr3d	NSLRWCD C37	BASE	84.26	10.58	18.50	0	3.62	0.00	10.85	0.00
10yr3d	NSLRWCD C37	BASE	84.51	10.57	18.50	0	3.62	0.00	10.92	0.00
10yr3d	NSLRWCD C37	BASE	84.76	10.57	18.50	0	3.61	0.00	11.00	0.00
10yr3d	NSLRWCD C37	BASE	85.01	10.57	18.50	0	3.60	0.00	11.07	0.00
10yr3d	NSLRWCD C37	BASE	85.26	10.57	18.50	0	3.60	0.00	11.15	0.00
10yr3d	NSLRWCD C37	BASE	85.51	10.56	18.50	0	3.59	0.00	11.22	0.00
10yr3d	NSLRWCD C37	BASE	85.76	10.56	18.50	0	3.59	0.00	11.30	0.00
10yr3d	NSLRWCD C37	BASE	86.01	10.56	18.50	0	3.58	0.00	11.37	0.00
10yr3d	NSLRWCD C37	BASE	86.26	10.56	18.50	0	3.58	0.00	11.44	0.00
10yr3d	NSLRWCD C37	BASE	86.51	10.55	18.50	0	3.57	0.00	11.52	0.00
10yr3d	NSLRWCD C37	BASE	86.76	10.55	18.50	0	3.57	0.00	11.59	0.00
10yr3d	NSLRWCD C37	BASE	87.01	10.55	18.50	0	3.56	0.00	11.66	0.00
10yr3d	NSLRWCD C37	BASE	87.26	10.55	18.50	0	3.55	0.00	11.74	0.00
10yr3d	NSLRWCD C37	BASE	87.51	10.54	18.50	0	3.55	0.00	11.81	0.00
10yr3d	NSLRWCD C37	BASE	87.76	10.54	18.50	0	3.54	0.00	11.89	0.00
10yr3d	NSLRWCD C37	BASE	88.01	10.54	18.50	0	3.54	0.00	11.96	0.00
10yr3d	NSLRWCD C37	BASE	88.26	10.54	18.50	0	3.53	0.00	12.03	0.00
10yr3d	NSLRWCD C37	BASE	88.51	10.53	18.50	0	3.53	0.00	12.10	0.00
10yr3d	NSLRWCD C37	BASE	88.76	10.53	18.50	0	3.52	0.00	12.18	0.00
10yr3d	NSLRWCD C37	BASE	89.01	10.53	18.50	0	3.51	0.00	12.25	0.00
10yr3d	NSLRWCD C37	BASE	89.26	10.53	18.50	0	3.51	0.00	12.32	0.00
10yr3d	NSLRWCD C37	BASE	89.51	10.52	18.50	0	3.50	0.00	12.39	0.00
10yr3d	NSLRWCD C37	BASE	89.76	10.52	18.50	0	3.50	0.00	12.47	0.00

Max Discharge Volume in 24-hrs = 7.54 acft
Less than Allowable 2" over 45 ac = 7.65 acft

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	90.01	10.52	18.50	0	3.49	0.00	12.54	0.00
10yr3d	NSLRWCD C37	BASE	90.26	10.51	18.50	0	3.49	0.00	12.61	0.00
10yr3d	NSLRWCD C37	BASE	90.51	10.51	18.50	0	3.48	0.00	12.68	0.00
10yr3d	NSLRWCD C37	BASE	90.76	10.51	18.50	0	3.47	0.00	12.75	0.00
10yr3d	NSLRWCD C37	BASE	91.01	10.51	18.50	0	3.47	0.00	12.83	0.00
10yr3d	NSLRWCD C37	BASE	91.26	10.50	18.50	0	3.46	0.00	12.90	0.00
10yr3d	NSLRWCD C37	BASE	91.51	10.50	18.50	0	3.46	0.00	12.97	0.00
10yr3d	NSLRWCD C37	BASE	91.76	10.50	18.50	0	3.45	0.00	13.04	0.00
10yr3d	NSLRWCD C37	BASE	92.01	10.50	18.50	0	3.44	0.00	13.11	0.00
10yr3d	NSLRWCD C37	BASE	92.26	10.49	18.50	0	3.44	0.00	13.18	0.00
10yr3d	NSLRWCD C37	BASE	92.51	10.49	18.50	0	3.43	0.00	13.25	0.00
10yr3d	NSLRWCD C37	BASE	92.76	10.49	18.50	0	3.43	0.00	13.33	0.00
10yr3d	NSLRWCD C37	BASE	93.01	10.49	18.50	0	3.42	0.00	13.40	0.00
10yr3d	NSLRWCD C37	BASE	93.26	10.48	18.50	0	3.41	0.00	13.47	0.00
10yr3d	NSLRWCD C37	BASE	93.51	10.48	18.50	0	3.41	0.00	13.54	0.00
10yr3d	NSLRWCD C37	BASE	93.76	10.48	18.50	0	3.40	0.00	13.61	0.00
10yr3d	NSLRWCD C37	BASE	94.01	10.48	18.50	0	3.40	0.00	13.68	0.00
10yr3d	NSLRWCD C37	BASE	94.26	10.47	18.50	0	3.39	0.00	13.75	0.00
10yr3d	NSLRWCD C37	BASE	94.51	10.47	18.50	0	3.38	0.00	13.82	0.00
10yr3d	NSLRWCD C37	BASE	94.76	10.47	18.50	0	3.38	0.00	13.89	0.00
10yr3d	NSLRWCD C37	BASE	95.01	10.47	18.50	0	3.37	0.00	13.96	0.00
10yr3d	NSLRWCD C37	BASE	95.26	10.46	18.50	0	3.37	0.00	14.03	0.00
10yr3d	NSLRWCD C37	BASE	95.51	10.46	18.50	0	3.36	0.00	14.10	0.00
10yr3d	NSLRWCD C37	BASE	95.76	10.46	18.50	0	3.35	0.00	14.17	0.00
10yr3d	NSLRWCD C37	BASE	96.01	10.46	18.50	0	3.35	0.00	14.23	0.00
10yr3d	NSLRWCD C37	BASE	96.26	10.45	18.50	0	3.34	0.00	14.30	0.00
10yr3d	NSLRWCD C37	BASE	96.51	10.45	18.50	0	3.34	0.00	14.37	0.00
10yr3d	NSLRWCD C37	BASE	96.76	10.45	18.50	0	3.33	0.00	14.44	0.00
10yr3d	NSLRWCD C37	BASE	97.01	10.45	18.50	0	3.32	0.00	14.51	0.00
10yr3d	NSLRWCD C37	BASE	97.26	10.44	18.50	0	3.32	0.00	14.58	0.00
10yr3d	NSLRWCD C37	BASE	97.51	10.44	18.50	0	3.31	0.00	14.65	0.00
10yr3d	NSLRWCD C37	BASE	97.76	10.44	18.50	0	3.31	0.00	14.72	0.00
10yr3d	NSLRWCD C37	BASE	98.01	10.44	18.50	0	3.30	0.00	14.78	0.00
10yr3d	NSLRWCD C37	BASE	98.26	10.43	18.50	0	3.29	0.00	14.85	0.00
10yr3d	NSLRWCD C37	BASE	98.51	10.43	18.50	0	3.29	0.00	14.92	0.00
10yr3d	NSLRWCD C37	BASE	98.76	10.43	18.50	0	3.28	0.00	14.99	0.00
10yr3d	NSLRWCD C37	BASE	99.01	10.43	18.50	0	3.28	0.00	15.06	0.00
10yr3d	NSLRWCD C37	BASE	99.26	10.42	18.50	0	3.27	0.00	15.12	0.00
10yr3d	NSLRWCD C37	BASE	99.51	10.42	18.50	0	3.26	0.00	15.19	0.00
10yr3d	NSLRWCD C37	BASE	99.76	10.42	18.50	0	3.26	0.00	15.26	0.00
10yr3d	NSLRWCD C37	BASE	100.01	10.42	18.50	0	3.25	0.00	15.33	0.00
10yr3d	NSLRWCD C37	BASE	100.26	10.41	18.50	0	3.24	0.00	15.39	0.00
10yr3d	NSLRWCD C37	BASE	100.51	10.41	18.50	0	3.24	0.00	15.46	0.00
10yr3d	NSLRWCD C37	BASE	100.76	10.41	18.50	0	3.23	0.00	15.53	0.00
10yr3d	NSLRWCD C37	BASE	101.01	10.41	18.50	0	3.23	0.00	15.59	0.00
10yr3d	NSLRWCD C37	BASE	101.26	10.40	18.50	0	3.22	0.00	15.66	0.00
10yr3d	NSLRWCD C37	BASE	101.51	10.40	18.50	0	3.21	0.00	15.73	0.00
10yr3d	NSLRWCD C37	BASE	101.76	10.40	18.50	0	3.21	0.00	15.79	0.00
10yr3d	NSLRWCD C37	BASE	102.01	10.40	18.50	0	3.20	0.00	15.86	0.00
10yr3d	NSLRWCD C37	BASE	102.26	10.39	18.50	0	3.20	0.00	15.92	0.00
10yr3d	NSLRWCD C37	BASE	102.51	10.39	18.50	0	3.19	0.00	15.99	0.00
10yr3d	NSLRWCD C37	BASE	102.76	10.39	18.50	0	3.18	0.00	16.06	0.00
10yr3d	NSLRWCD C37	BASE	103.01	10.39	18.50	0	3.18	0.00	16.12	0.00
10yr3d	NSLRWCD C37	BASE	103.26	10.38	18.50	0	3.17	0.00	16.19	0.00
10yr3d	NSLRWCD C37	BASE	103.51	10.38	18.50	0	3.16	0.00	16.25	0.00
10yr3d	NSLRWCD C37	BASE	103.76	10.38	18.50	0	3.16	0.00	16.32	0.00
10yr3d	NSLRWCD C37	BASE	104.01	10.38	18.50	0	3.15	0.00	16.38	0.00
10yr3d	NSLRWCD C37	BASE	104.26	10.37	18.50	0	3.15	0.00	16.45	0.00
10yr3d	NSLRWCD C37	BASE	104.51	10.37	18.50	0	3.14	0.00	16.51	0.00
10yr3d	NSLRWCD C37	BASE	104.76	10.37	18.50	0	3.13	0.00	16.58	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	105.01	10.37	18.50	0	3.13	0.00	16.64	0.00
10yr3d	NSLRWCD C37	BASE	105.26	10.36	18.50	0	3.12	0.00	16.71	0.00
10yr3d	NSLRWCD C37	BASE	105.51	10.36	18.50	0	3.12	0.00	16.77	0.00
10yr3d	NSLRWCD C37	BASE	105.76	10.36	18.50	0	3.11	0.00	16.84	0.00
10yr3d	NSLRWCD C37	BASE	106.01	10.36	18.50	0	3.10	0.00	16.90	0.00
10yr3d	NSLRWCD C37	BASE	106.26	10.35	18.50	0	3.10	0.00	16.96	0.00
10yr3d	NSLRWCD C37	BASE	106.51	10.35	18.50	0	3.09	0.00	17.03	0.00
10yr3d	NSLRWCD C37	BASE	106.76	10.35	18.50	0	3.08	0.00	17.09	0.00
10yr3d	NSLRWCD C37	BASE	107.01	10.35	18.50	0	3.08	0.00	17.16	0.00
10yr3d	NSLRWCD C37	BASE	107.26	10.34	18.50	0	3.07	0.00	17.22	0.00
10yr3d	NSLRWCD C37	BASE	107.51	10.34	18.50	0	3.07	0.00	17.28	0.00
10yr3d	NSLRWCD C37	BASE	107.76	10.34	18.50	0	3.06	0.00	17.35	0.00
10yr3d	NSLRWCD C37	BASE	108.01	10.33	18.50	0	3.05	0.00	17.41	0.00
10yr3d	NSLRWCD C37	BASE	108.26	10.33	18.50	0	3.05	0.00	17.47	0.00
10yr3d	NSLRWCD C37	BASE	108.51	10.33	18.50	0	3.04	0.00	17.54	0.00
10yr3d	NSLRWCD C37	BASE	108.76	10.33	18.50	0	3.03	0.00	17.60	0.00
10yr3d	NSLRWCD C37	BASE	109.01	10.32	18.50	0	3.03	0.00	17.66	0.00
10yr3d	NSLRWCD C37	BASE	109.26	10.32	18.50	0	3.02	0.00	17.72	0.00
10yr3d	NSLRWCD C37	BASE	109.51	10.32	18.50	0	3.02	0.00	17.79	0.00
10yr3d	NSLRWCD C37	BASE	109.76	10.32	18.50	0	3.01	0.00	17.85	0.00
10yr3d	NSLRWCD C37	BASE	110.01	10.31	18.50	0	3.00	0.00	17.91	0.00
10yr3d	NSLRWCD C37	BASE	110.26	10.31	18.50	0	3.00	0.00	17.97	0.00
10yr3d	NSLRWCD C37	BASE	110.51	10.31	18.50	0	2.99	0.00	18.03	0.00
10yr3d	NSLRWCD C37	BASE	110.76	10.31	18.50	0	2.98	0.00	18.10	0.00
10yr3d	NSLRWCD C37	BASE	111.01	10.30	18.50	0	2.98	0.00	18.16	0.00
10yr3d	NSLRWCD C37	BASE	111.26	10.30	18.50	0	2.97	0.00	18.22	0.00
10yr3d	NSLRWCD C37	BASE	111.51	10.30	18.50	0	2.96	0.00	18.28	0.00
10yr3d	NSLRWCD C37	BASE	111.76	10.30	18.50	0	2.96	0.00	18.34	0.00
10yr3d	NSLRWCD C37	BASE	112.01	10.29	18.50	0	2.95	0.00	18.40	0.00
10yr3d	NSLRWCD C37	BASE	112.26	10.29	18.50	0	2.95	0.00	18.46	0.00
10yr3d	NSLRWCD C37	BASE	112.51	10.29	18.50	0	2.94	0.00	18.52	0.00
10yr3d	NSLRWCD C37	BASE	112.76	10.29	18.50	0	2.93	0.00	18.58	0.00
10yr3d	NSLRWCD C37	BASE	113.01	10.28	18.50	0	2.93	0.00	18.65	0.00
10yr3d	NSLRWCD C37	BASE	113.26	10.28	18.50	0	2.92	0.00	18.71	0.00
10yr3d	NSLRWCD C37	BASE	113.51	10.28	18.50	0	2.91	0.00	18.77	0.00
10yr3d	NSLRWCD C37	BASE	113.76	10.28	18.50	0	2.91	0.00	18.83	0.00
10yr3d	NSLRWCD C37	BASE	114.01	10.27	18.50	0	2.90	0.00	18.89	0.00
10yr3d	NSLRWCD C37	BASE	114.26	10.27	18.50	0	2.90	0.00	18.95	0.00
10yr3d	NSLRWCD C37	BASE	114.51	10.27	18.50	0	2.89	0.00	19.01	0.00
10yr3d	NSLRWCD C37	BASE	114.76	10.27	18.50	0	2.88	0.00	19.07	0.00
10yr3d	NSLRWCD C37	BASE	115.01	10.26	18.50	0	2.88	0.00	19.12	0.00
10yr3d	NSLRWCD C37	BASE	115.26	10.26	18.50	0	2.87	0.00	19.18	0.00
10yr3d	NSLRWCD C37	BASE	115.51	10.26	18.50	0	2.86	0.00	19.24	0.00
10yr3d	NSLRWCD C37	BASE	115.76	10.26	18.50	0	2.86	0.00	19.30	0.00
10yr3d	NSLRWCD C37	BASE	116.01	10.25	18.50	0	2.85	0.00	19.36	0.00
10yr3d	NSLRWCD C37	BASE	116.26	10.25	18.50	0	2.84	0.00	19.42	0.00
10yr3d	NSLRWCD C37	BASE	116.51	10.25	18.50	0	2.84	0.00	19.48	0.00
10yr3d	NSLRWCD C37	BASE	116.76	10.25	18.50	0	2.83	0.00	19.54	0.00
10yr3d	NSLRWCD C37	BASE	117.01	10.24	18.50	0	2.83	0.00	19.60	0.00
10yr3d	NSLRWCD C37	BASE	117.26	10.24	18.50	0	2.82	0.00	19.65	0.00
10yr3d	NSLRWCD C37	BASE	117.51	10.24	18.50	0	2.81	0.00	19.71	0.00
10yr3d	NSLRWCD C37	BASE	117.76	10.24	18.50	0	2.81	0.00	19.77	0.00
10yr3d	NSLRWCD C37	BASE	118.01	10.23	18.50	0	2.80	0.00	19.83	0.00
10yr3d	NSLRWCD C37	BASE	118.26	10.23	18.50	0	2.79	0.00	19.89	0.00
10yr3d	NSLRWCD C37	BASE	118.51	10.23	18.50	0	2.79	0.00	19.94	0.00
10yr3d	NSLRWCD C37	BASE	118.76	10.23	18.50	0	2.78	0.00	20.00	0.00
10yr3d	NSLRWCD C37	BASE	119.01	10.22	18.50	0	2.77	0.00	20.06	0.00
10yr3d	NSLRWCD C37	BASE	119.26	10.22	18.50	0	2.77	0.00	20.12	0.00
10yr3d	NSLRWCD C37	BASE	119.51	10.22	18.50	0	2.76	0.00	20.17	0.00
10yr3d	NSLRWCD C37	BASE	119.76	10.22	18.50	0	2.76	0.00	20.23	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	120.01	10.21	18.50	0	2.75	0.00	20.29	0.00
10yr3d	NSLRWCD C37	BASE	120.26	10.21	18.50	0	2.74	0.00	20.34	0.00
10yr3d	NSLRWCD C37	BASE	120.51	10.21	18.50	0	2.74	0.00	20.40	0.00
10yr3d	NSLRWCD C37	BASE	120.76	10.21	18.50	0	2.73	0.00	20.46	0.00
10yr3d	NSLRWCD C37	BASE	121.01	10.20	18.50	0	2.72	0.00	20.51	0.00
10yr3d	NSLRWCD C37	BASE	121.26	10.20	18.50	0	2.72	0.00	20.57	0.00
10yr3d	NSLRWCD C37	BASE	121.51	10.20	18.50	0	2.71	0.00	20.63	0.00
10yr3d	NSLRWCD C37	BASE	121.76	10.20	18.50	0	2.70	0.00	20.68	0.00
10yr3d	NSLRWCD C37	BASE	122.01	10.19	18.50	0	2.70	0.00	20.74	0.00
10yr3d	NSLRWCD C37	BASE	122.26	10.19	18.50	0	2.69	0.00	20.79	0.00
10yr3d	NSLRWCD C37	BASE	122.51	10.19	18.50	0	2.69	0.00	20.85	0.00
10yr3d	NSLRWCD C37	BASE	122.76	10.19	18.50	0	2.68	0.00	20.90	0.00
10yr3d	NSLRWCD C37	BASE	123.01	10.18	18.50	0	2.67	0.00	20.96	0.00
10yr3d	NSLRWCD C37	BASE	123.26	10.18	18.50	0	2.67	0.00	21.01	0.00
10yr3d	NSLRWCD C37	BASE	123.51	10.18	18.50	0	2.66	0.00	21.07	0.00
10yr3d	NSLRWCD C37	BASE	123.76	10.18	18.50	0	2.65	0.00	21.12	0.00
10yr3d	NSLRWCD C37	BASE	124.01	10.17	18.50	0	2.65	0.00	21.18	0.00
10yr3d	NSLRWCD C37	BASE	124.26	10.17	18.50	0	2.64	0.00	21.23	0.00
10yr3d	NSLRWCD C37	BASE	124.51	10.17	18.50	0	2.63	0.00	21.29	0.00
10yr3d	NSLRWCD C37	BASE	124.76	10.17	18.50	0	2.63	0.00	21.34	0.00
10yr3d	NSLRWCD C37	BASE	125.01	10.16	18.50	0	2.62	0.00	21.40	0.00
10yr3d	NSLRWCD C37	BASE	125.26	10.16	18.50	0	2.61	0.00	21.45	0.00
10yr3d	NSLRWCD C37	BASE	125.51	10.16	18.50	0	2.61	0.00	21.50	0.00
10yr3d	NSLRWCD C37	BASE	125.76	10.15	18.50	0	2.60	0.00	21.56	0.00
10yr3d	NSLRWCD C37	BASE	126.01	10.15	18.50	0	2.60	0.00	21.61	0.00
10yr3d	NSLRWCD C37	BASE	126.26	10.15	18.50	0	2.59	0.00	21.67	0.00
10yr3d	NSLRWCD C37	BASE	126.51	10.15	18.50	0	2.58	0.00	21.72	0.00
10yr3d	NSLRWCD C37	BASE	126.76	10.14	18.50	0	2.58	0.00	21.77	0.00
10yr3d	NSLRWCD C37	BASE	127.01	10.14	18.50	0	2.57	0.00	21.83	0.00
10yr3d	NSLRWCD C37	BASE	127.26	10.14	18.50	0	2.56	0.00	21.88	0.00
10yr3d	NSLRWCD C37	BASE	127.51	10.14	18.50	0	2.56	0.00	21.93	0.00
10yr3d	NSLRWCD C37	BASE	127.76	10.13	18.50	0	2.55	0.00	21.98	0.00
10yr3d	NSLRWCD C37	BASE	128.01	10.13	18.50	0	2.54	0.00	22.04	0.00
10yr3d	NSLRWCD C37	BASE	128.26	10.13	18.50	0	2.54	0.00	22.09	0.00
10yr3d	NSLRWCD C37	BASE	128.51	10.13	18.50	0	2.53	0.00	22.14	0.00
10yr3d	NSLRWCD C37	BASE	128.76	10.12	18.50	0	2.52	0.00	22.19	0.00
10yr3d	NSLRWCD C37	BASE	129.01	10.12	18.50	0	2.52	0.00	22.25	0.00
10yr3d	NSLRWCD C37	BASE	129.26	10.12	18.50	0	2.51	0.00	22.30	0.00
10yr3d	NSLRWCD C37	BASE	129.51	10.12	18.50	0	2.50	0.00	22.35	0.00
10yr3d	NSLRWCD C37	BASE	129.76	10.11	18.50	0	2.50	0.00	22.40	0.00
10yr3d	NSLRWCD C37	BASE	130.01	10.11	18.50	0	2.49	0.00	22.45	0.00
10yr3d	NSLRWCD C37	BASE	130.26	10.11	18.50	0	2.48	0.00	22.50	0.00
10yr3d	NSLRWCD C37	BASE	130.51	10.11	18.50	0	2.48	0.00	22.56	0.00
10yr3d	NSLRWCD C37	BASE	130.76	10.10	18.50	0	2.47	0.00	22.61	0.00
10yr3d	NSLRWCD C37	BASE	131.01	10.10	18.50	0	2.46	0.00	22.66	0.00
10yr3d	NSLRWCD C37	BASE	131.26	10.10	18.50	0	2.46	0.00	22.71	0.00
10yr3d	NSLRWCD C37	BASE	131.51	10.10	18.50	0	2.45	0.00	22.76	0.00
10yr3d	NSLRWCD C37	BASE	131.76	10.09	18.50	0	2.44	0.00	22.81	0.00
10yr3d	NSLRWCD C37	BASE	132.01	10.09	18.50	0	2.44	0.00	22.86	0.00
10yr3d	NSLRWCD C37	BASE	132.26	10.09	18.50	0	2.43	0.00	22.91	0.00
10yr3d	NSLRWCD C37	BASE	132.51	10.09	18.50	0	2.42	0.00	22.96	0.00
10yr3d	NSLRWCD C37	BASE	132.76	10.08	18.50	0	2.42	0.00	23.01	0.00
10yr3d	NSLRWCD C37	BASE	133.01	10.08	18.50	0	2.41	0.00	23.06	0.00
10yr3d	NSLRWCD C37	BASE	133.26	10.08	18.50	0	2.41	0.00	23.11	0.00
10yr3d	NSLRWCD C37	BASE	133.51	10.08	18.50	0	2.40	0.00	23.16	0.00
10yr3d	NSLRWCD C37	BASE	133.76	10.07	18.50	0	2.39	0.00	23.21	0.00
10yr3d	NSLRWCD C37	BASE	134.01	10.07	18.50	0	2.39	0.00	23.26	0.00
10yr3d	NSLRWCD C37	BASE	134.26	10.07	18.50	0	2.38	0.00	23.31	0.00
10yr3d	NSLRWCD C37	BASE	134.51	10.07	18.50	0	2.37	0.00	23.36	0.00
10yr3d	NSLRWCD C37	BASE	134.76	10.06	18.50	0	2.37	0.00	23.41	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	135.01	10.06	18.50	0	2.36	0.00	23.45	0.00
10yr3d	NSLRWCD C37	BASE	135.26	10.06	18.50	0	2.35	0.00	23.50	0.00
10yr3d	NSLRWCD C37	BASE	135.51	10.06	18.50	0	2.35	0.00	23.55	0.00
10yr3d	NSLRWCD C37	BASE	135.76	10.05	18.50	0	2.34	0.00	23.60	0.00
10yr3d	NSLRWCD C37	BASE	136.01	10.05	18.50	0	2.33	0.00	23.65	0.00
10yr3d	NSLRWCD C37	BASE	136.26	10.05	18.50	0	2.33	0.00	23.70	0.00
10yr3d	NSLRWCD C37	BASE	136.51	10.05	18.50	0	2.32	0.00	23.74	0.00
10yr3d	NSLRWCD C37	BASE	136.76	10.04	18.50	0	2.31	0.00	23.79	0.00
10yr3d	NSLRWCD C37	BASE	137.01	10.04	18.50	0	2.31	0.00	23.84	0.00
10yr3d	NSLRWCD C37	BASE	137.26	10.04	18.50	0	2.30	0.00	23.89	0.00
10yr3d	NSLRWCD C37	BASE	137.51	10.04	18.50	0	2.30	0.00	23.94	0.00
10yr3d	NSLRWCD C37	BASE	137.76	10.03	18.50	0	2.29	0.00	23.98	0.00
10yr3d	NSLRWCD C37	BASE	138.01	10.03	18.50	0	2.28	0.00	24.03	0.00
10yr3d	NSLRWCD C37	BASE	138.26	10.03	18.50	0	2.28	0.00	24.08	0.00
10yr3d	NSLRWCD C37	BASE	138.51	10.03	18.50	0	2.27	0.00	24.12	0.00
10yr3d	NSLRWCD C37	BASE	138.76	10.02	18.50	0	2.26	0.00	24.17	0.00
10yr3d	NSLRWCD C37	BASE	139.01	10.02	18.50	0	2.26	0.00	24.22	0.00
10yr3d	NSLRWCD C37	BASE	139.26	10.02	18.50	0	2.25	0.00	24.26	0.00
10yr3d	NSLRWCD C37	BASE	139.51	10.02	18.50	0	2.24	0.00	24.31	0.00
10yr3d	NSLRWCD C37	BASE	139.76	10.01	18.50	0	2.24	0.00	24.36	0.00
10yr3d	NSLRWCD C37	BASE	140.01	10.01	18.50	0	2.23	0.00	24.40	0.00
10yr3d	NSLRWCD C37	BASE	140.26	10.01	18.50	0	2.22	0.00	24.45	0.00
10yr3d	NSLRWCD C37	BASE	140.51	10.01	18.50	0	2.22	0.00	24.50	0.00
10yr3d	NSLRWCD C37	BASE	140.76	10.00	18.50	0	2.21	0.00	24.54	0.00
10yr3d	NSLRWCD C37	BASE	141.01	10.00	18.50	0	2.21	0.00	24.59	0.00
10yr3d	NSLRWCD C37	BASE	141.26	10.00	18.50	0	2.20	0.00	24.63	0.00
10yr3d	NSLRWCD C37	BASE	141.51	10.00	18.50	0	2.20	0.00	24.68	0.00
10yr3d	NSLRWCD C37	BASE	141.76	9.99	18.50	0	2.19	0.00	24.72	0.00
10yr3d	NSLRWCD C37	BASE	142.01	9.99	18.50	0	2.18	0.00	24.77	0.00
10yr3d	NSLRWCD C37	BASE	142.26	9.99	18.50	0	2.18	0.00	24.81	0.00
10yr3d	NSLRWCD C37	BASE	142.51	9.99	18.50	0	2.17	0.00	24.86	0.00
10yr3d	NSLRWCD C37	BASE	142.76	9.98	18.50	0	2.16	0.00	24.90	0.00
10yr3d	NSLRWCD C37	BASE	143.01	9.98	18.50	0	2.16	0.00	24.95	0.00
10yr3d	NSLRWCD C37	BASE	143.26	9.98	18.50	0	2.15	0.00	24.99	0.00
10yr3d	NSLRWCD C37	BASE	143.51	9.98	18.50	0	2.14	0.00	25.04	0.00
10yr3d	NSLRWCD C37	BASE	143.76	9.97	18.50	0	2.14	0.00	25.08	0.00
10yr3d	NSLRWCD C37	BASE	144.01	9.97	18.50	0	2.13	0.00	25.12	0.00
10yr3d	NSLRWCD C37	BASE	144.26	9.97	18.50	0	2.12	0.00	25.17	0.00
10yr3d	NSLRWCD C37	BASE	144.51	9.96	18.50	0	2.12	0.00	25.21	0.00
10yr3d	NSLRWCD C37	BASE	144.76	9.96	18.50	0	2.11	0.00	25.26	0.00
10yr3d	NSLRWCD C37	BASE	145.01	9.96	18.50	0	2.11	0.00	25.30	0.00
10yr3d	NSLRWCD C37	BASE	145.26	9.96	18.50	0	2.10	0.00	25.34	0.00
10yr3d	NSLRWCD C37	BASE	145.51	9.95	18.50	0	2.09	0.00	25.39	0.00
10yr3d	NSLRWCD C37	BASE	145.76	9.95	18.50	0	2.09	0.00	25.43	0.00
10yr3d	NSLRWCD C37	BASE	146.01	9.95	18.50	0	2.08	0.00	25.47	0.00
10yr3d	NSLRWCD C37	BASE	146.26	9.95	18.50	0	2.07	0.00	25.52	0.00
10yr3d	NSLRWCD C37	BASE	146.51	9.94	18.50	0	2.07	0.00	25.56	0.00
10yr3d	NSLRWCD C37	BASE	146.76	9.94	18.50	0	2.06	0.00	25.60	0.00
10yr3d	NSLRWCD C37	BASE	147.01	9.94	18.50	0	2.05	0.00	25.64	0.00
10yr3d	NSLRWCD C37	BASE	147.26	9.94	18.50	0	2.05	0.00	25.69	0.00
10yr3d	NSLRWCD C37	BASE	147.51	9.93	18.50	0	2.04	0.00	25.73	0.00
10yr3d	NSLRWCD C37	BASE	147.76	9.93	18.50	0	2.04	0.00	25.77	0.00
10yr3d	NSLRWCD C37	BASE	148.01	9.93	18.50	0	2.03	0.00	25.81	0.00
10yr3d	NSLRWCD C37	BASE	148.26	9.93	18.50	0	2.02	0.00	25.85	0.00
10yr3d	NSLRWCD C37	BASE	148.51	9.92	18.50	0	2.02	0.00	25.90	0.00
10yr3d	NSLRWCD C37	BASE	148.76	9.92	18.50	0	2.01	0.00	25.94	0.00
10yr3d	NSLRWCD C37	BASE	149.01	9.92	18.50	0	2.00	0.00	25.98	0.00
10yr3d	NSLRWCD C37	BASE	149.26	9.92	18.50	0	2.00	0.00	26.02	0.00
10yr3d	NSLRWCD C37	BASE	149.51	9.91	18.50	0	1.99	0.00	26.06	0.00
10yr3d	NSLRWCD C37	BASE	149.76	9.91	18.50	0	1.99	0.00	26.10	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	150.01	9.91	18.50	0	1.98	0.00	26.14	0.00
10yr3d	NSLRWCD C37	BASE	150.26	9.91	18.50	0	1.97	0.00	26.18	0.00
10yr3d	NSLRWCD C37	BASE	150.51	9.90	18.50	0	1.97	0.00	26.22	0.00
10yr3d	NSLRWCD C37	BASE	150.76	9.90	18.50	0	1.96	0.00	26.27	0.00
10yr3d	NSLRWCD C37	BASE	151.01	9.90	18.50	0	1.95	0.00	26.31	0.00
10yr3d	NSLRWCD C37	BASE	151.26	9.90	18.50	0	1.95	0.00	26.35	0.00
10yr3d	NSLRWCD C37	BASE	151.51	9.89	18.50	0	1.94	0.00	26.39	0.00
10yr3d	NSLRWCD C37	BASE	151.76	9.89	18.50	0	1.94	0.00	26.43	0.00
10yr3d	NSLRWCD C37	BASE	152.01	9.89	18.50	0	1.93	0.00	26.47	0.00
10yr3d	NSLRWCD C37	BASE	152.26	9.89	18.50	0	1.92	0.00	26.51	0.00
10yr3d	NSLRWCD C37	BASE	152.51	9.88	18.50	0	1.92	0.00	26.55	0.00
10yr3d	NSLRWCD C37	BASE	152.76	9.88	18.50	0	1.91	0.00	26.59	0.00
10yr3d	NSLRWCD C37	BASE	153.01	9.88	18.50	0	1.90	0.00	26.62	0.00
10yr3d	NSLRWCD C37	BASE	153.26	9.88	18.50	0	1.90	0.00	26.66	0.00
10yr3d	NSLRWCD C37	BASE	153.51	9.87	18.50	0	1.89	0.00	26.70	0.00
10yr3d	NSLRWCD C37	BASE	153.76	9.87	18.50	0	1.89	0.00	26.74	0.00
10yr3d	NSLRWCD C37	BASE	154.01	9.87	18.50	0	1.88	0.00	26.78	0.00
10yr3d	NSLRWCD C37	BASE	154.26	9.87	18.50	0	1.87	0.00	26.82	0.00
10yr3d	NSLRWCD C37	BASE	154.51	9.86	18.50	0	1.87	0.00	26.86	0.00
10yr3d	NSLRWCD C37	BASE	154.76	9.86	18.50	0	1.86	0.00	26.90	0.00
10yr3d	NSLRWCD C37	BASE	155.01	9.86	18.50	0	1.86	0.00	26.94	0.00
10yr3d	NSLRWCD C37	BASE	155.26	9.86	18.50	0	1.85	0.00	26.97	0.00
10yr3d	NSLRWCD C37	BASE	155.51	9.85	18.50	0	1.84	0.00	27.01	0.00
10yr3d	NSLRWCD C37	BASE	155.76	9.85	18.50	0	1.84	0.00	27.05	0.00
10yr3d	NSLRWCD C37	BASE	156.01	9.85	18.50	0	1.83	0.00	27.09	0.00
10yr3d	NSLRWCD C37	BASE	156.26	9.85	18.50	0	1.83	0.00	27.13	0.00
10yr3d	NSLRWCD C37	BASE	156.51	9.84	18.50	0	1.82	0.00	27.16	0.00
10yr3d	NSLRWCD C37	BASE	156.76	9.84	18.50	0	1.81	0.00	27.20	0.00
10yr3d	NSLRWCD C37	BASE	157.01	9.84	18.50	0	1.81	0.00	27.24	0.00
10yr3d	NSLRWCD C37	BASE	157.26	9.84	18.50	0	1.80	0.00	27.28	0.00
10yr3d	NSLRWCD C37	BASE	157.51	9.83	18.50	0	1.79	0.00	27.31	0.00
10yr3d	NSLRWCD C37	BASE	157.76	9.83	18.50	0	1.79	0.00	27.35	0.00
10yr3d	NSLRWCD C37	BASE	158.01	9.83	18.50	0	1.78	0.00	27.39	0.00
10yr3d	NSLRWCD C37	BASE	158.26	9.83	18.50	0	1.78	0.00	27.42	0.00
10yr3d	NSLRWCD C37	BASE	158.51	9.82	18.50	0	1.77	0.00	27.46	0.00
10yr3d	NSLRWCD C37	BASE	158.76	9.82	18.50	0	1.76	0.00	27.50	0.00
10yr3d	NSLRWCD C37	BASE	159.01	9.82	18.50	0	1.76	0.00	27.53	0.00
10yr3d	NSLRWCD C37	BASE	159.26	9.82	18.50	0	1.75	0.00	27.57	0.00
10yr3d	NSLRWCD C37	BASE	159.51	9.81	18.50	0	1.75	0.00	27.61	0.00
10yr3d	NSLRWCD C37	BASE	159.76	9.81	18.50	0	1.74	0.00	27.64	0.00
10yr3d	NSLRWCD C37	BASE	160.01	9.81	18.50	0	1.73	0.00	27.68	0.00
10yr3d	NSLRWCD C37	BASE	160.26	9.81	18.50	0	1.73	0.00	27.71	0.00
10yr3d	NSLRWCD C37	BASE	160.51	9.80	18.50	0	1.72	0.00	27.75	0.00
10yr3d	NSLRWCD C37	BASE	160.76	9.80	18.50	0	1.72	0.00	27.78	0.00
10yr3d	NSLRWCD C37	BASE	161.01	9.80	18.50	0	1.71	0.00	27.82	0.00
10yr3d	NSLRWCD C37	BASE	161.26	9.80	18.50	0	1.71	0.00	27.85	0.00
10yr3d	NSLRWCD C37	BASE	161.51	9.79	18.50	0	1.70	0.00	27.89	0.00
10yr3d	NSLRWCD C37	BASE	161.76	9.79	18.50	0	1.69	0.00	27.93	0.00
10yr3d	NSLRWCD C37	BASE	162.01	9.79	18.50	0	1.69	0.00	27.96	0.00
10yr3d	NSLRWCD C37	BASE	162.26	9.78	18.50	0	1.68	0.00	27.99	0.00
10yr3d	NSLRWCD C37	BASE	162.51	9.78	18.50	0	1.68	0.00	28.03	0.00
10yr3d	NSLRWCD C37	BASE	162.76	9.78	18.50	0	1.67	0.00	28.06	0.00
10yr3d	NSLRWCD C37	BASE	163.01	9.78	18.50	0	1.66	0.00	28.10	0.00
10yr3d	NSLRWCD C37	BASE	163.26	9.77	18.50	0	1.66	0.00	28.13	0.00
10yr3d	NSLRWCD C37	BASE	163.51	9.77	18.50	0	1.65	0.00	28.17	0.00
10yr3d	NSLRWCD C37	BASE	163.76	9.77	18.50	0	1.65	0.00	28.20	0.00
10yr3d	NSLRWCD C37	BASE	164.01	9.77	18.50	0	1.64	0.00	28.24	0.00
10yr3d	NSLRWCD C37	BASE	164.26	9.76	18.50	0	1.64	0.00	28.27	0.00
10yr3d	NSLRWCD C37	BASE	164.51	9.76	18.50	0	1.63	0.00	28.30	0.00
10yr3d	NSLRWCD C37	BASE	164.76	9.76	18.50	0	1.62	0.00	28.34	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	165.01	9.76	18.50	0	1.62	0.00	28.37	0.00
10yr3d	NSLRWCD C37	BASE	165.26	9.75	18.50	0	1.61	0.00	28.40	0.00
10yr3d	NSLRWCD C37	BASE	165.51	9.75	18.50	0	1.61	0.00	28.44	0.00
10yr3d	NSLRWCD C37	BASE	165.76	9.75	18.50	0	1.60	0.00	28.47	0.00
10yr3d	NSLRWCD C37	BASE	166.01	9.75	18.50	0	1.59	0.00	28.50	0.00
10yr3d	NSLRWCD C37	BASE	166.26	9.74	18.50	0	1.59	0.00	28.54	0.00
10yr3d	NSLRWCD C37	BASE	166.51	9.74	18.50	0	1.58	0.00	28.57	0.00
10yr3d	NSLRWCD C37	BASE	166.76	9.74	18.50	0	1.58	0.00	28.60	0.00
10yr3d	NSLRWCD C37	BASE	167.01	9.74	18.50	0	1.57	0.00	28.63	0.00
10yr3d	NSLRWCD C37	BASE	167.26	9.73	18.50	0	1.57	0.00	28.67	0.00
10yr3d	NSLRWCD C37	BASE	167.51	9.73	18.50	0	1.56	0.00	28.70	0.00
10yr3d	NSLRWCD C37	BASE	167.76	9.73	18.50	0	1.55	0.00	28.73	0.00
10yr3d	NSLRWCD C37	BASE	168.01	9.73	18.50	0	1.55	0.00	28.76	0.00
10yr3d	NSLRWCD C37	BASE	168.26	9.72	18.50	0	1.54	0.00	28.79	0.00
10yr3d	NSLRWCD C37	BASE	168.51	9.72	18.50	0	1.53	0.00	28.83	0.00
10yr3d	NSLRWCD C37	BASE	168.76	9.72	18.50	0	1.53	0.00	28.86	0.00
10yr3d	NSLRWCD C37	BASE	169.01	9.72	18.50	0	1.52	0.00	28.89	0.00
10yr3d	NSLRWCD C37	BASE	169.26	9.71	18.50	0	1.51	0.00	28.92	0.00
10yr3d	NSLRWCD C37	BASE	169.51	9.71	18.50	0	1.50	0.00	28.95	0.00
10yr3d	NSLRWCD C37	BASE	169.76	9.71	18.50	0	1.50	0.00	28.98	0.00
10yr3d	NSLRWCD C37	BASE	170.01	9.71	18.50	0	1.49	0.00	29.01	0.00
10yr3d	NSLRWCD C37	BASE	170.26	9.70	18.50	0	1.48	0.00	29.04	0.00
10yr3d	NSLRWCD C37	BASE	170.51	9.70	18.50	0	1.47	0.00	29.07	0.00
10yr3d	NSLRWCD C37	BASE	170.76	9.70	18.50	0	1.47	0.00	29.11	0.00
10yr3d	NSLRWCD C37	BASE	171.01	9.70	18.50	0	1.46	0.00	29.14	0.00
10yr3d	NSLRWCD C37	BASE	171.26	9.69	18.50	0	1.45	0.00	29.17	0.00
10yr3d	NSLRWCD C37	BASE	171.51	9.69	18.50	0	1.45	0.00	29.20	0.00
10yr3d	NSLRWCD C37	BASE	171.76	9.69	18.50	0	1.44	0.00	29.23	0.00
10yr3d	NSLRWCD C37	BASE	172.01	9.69	18.50	0	1.43	0.00	29.25	0.00
10yr3d	NSLRWCD C37	BASE	172.26	9.68	18.50	0	1.43	0.00	29.28	0.00
10yr3d	NSLRWCD C37	BASE	172.51	9.68	18.50	0	1.42	0.00	29.31	0.00
10yr3d	NSLRWCD C37	BASE	172.76	9.68	18.50	0	1.41	0.00	29.34	0.00
10yr3d	NSLRWCD C37	BASE	173.01	9.68	18.50	0	1.41	0.00	29.37	0.00
10yr3d	NSLRWCD C37	BASE	173.26	9.67	18.50	0	1.40	0.00	29.40	0.00
10yr3d	NSLRWCD C37	BASE	173.51	9.67	18.50	0	1.39	0.00	29.43	0.00
10yr3d	NSLRWCD C37	BASE	173.76	9.67	18.50	0	1.39	0.00	29.46	0.00
10yr3d	NSLRWCD C37	BASE	174.01	9.67	18.50	0	1.38	0.00	29.49	0.00
10yr3d	NSLRWCD C37	BASE	174.26	9.66	18.50	0	1.38	0.00	29.52	0.00
10yr3d	NSLRWCD C37	BASE	174.51	9.66	18.50	0	1.37	0.00	29.54	0.00
10yr3d	NSLRWCD C37	BASE	174.76	9.66	18.50	0	1.36	0.00	29.57	0.00
10yr3d	NSLRWCD C37	BASE	175.01	9.66	18.50	0	1.36	0.00	29.60	0.00
10yr3d	NSLRWCD C37	BASE	175.26	9.65	18.50	0	1.35	0.00	29.63	0.00
10yr3d	NSLRWCD C37	BASE	175.51	9.65	18.50	0	1.35	0.00	29.66	0.00
10yr3d	NSLRWCD C37	BASE	175.76	9.65	18.50	0	1.34	0.00	29.68	0.00
10yr3d	NSLRWCD C37	BASE	176.01	9.65	18.50	0	1.33	0.00	29.71	0.00
10yr3d	NSLRWCD C37	BASE	176.26	9.64	18.50	0	1.33	0.00	29.74	0.00
10yr3d	NSLRWCD C37	BASE	176.51	9.64	18.50	0	1.32	0.00	29.77	0.00
10yr3d	NSLRWCD C37	BASE	176.76	9.64	18.50	0	1.31	0.00	29.79	0.00
10yr3d	NSLRWCD C37	BASE	177.01	9.64	18.50	0	1.31	0.00	29.82	0.00
10yr3d	NSLRWCD C37	BASE	177.26	9.63	18.50	0	1.30	0.00	29.85	0.00
10yr3d	NSLRWCD C37	BASE	177.51	9.63	18.50	0	1.30	0.00	29.87	0.00
10yr3d	NSLRWCD C37	BASE	177.76	9.63	18.50	0	1.29	0.00	29.90	0.00
10yr3d	NSLRWCD C37	BASE	178.01	9.63	18.50	0	1.28	0.00	29.93	0.00
10yr3d	NSLRWCD C37	BASE	178.26	9.62	18.50	0	1.28	0.00	29.95	0.00
10yr3d	NSLRWCD C37	BASE	178.51	9.62	18.50	0	1.27	0.00	29.98	0.00
10yr3d	NSLRWCD C37	BASE	178.76	9.62	18.50	0	1.27	0.00	30.01	0.00
10yr3d	NSLRWCD C37	BASE	179.01	9.62	18.50	0	1.26	0.00	30.03	0.00
10yr3d	NSLRWCD C37	BASE	179.26	9.61	18.50	0	1.25	0.00	30.06	0.00
10yr3d	NSLRWCD C37	BASE	179.51	9.61	18.50	0	1.25	0.00	30.09	0.00
10yr3d	NSLRWCD C37	BASE	179.76	9.61	18.50	0	1.24	0.00	30.11	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	180.01	9.60	18.50	0	1.24	0.00	30.14	0.00
10yr3d	NSLRWCD C37	BASE	180.26	9.60	18.50	0	1.23	0.00	30.16	0.00
10yr3d	NSLRWCD C37	BASE	180.51	9.60	18.50	0	1.23	0.00	30.19	0.00
10yr3d	NSLRWCD C37	BASE	180.76	9.60	18.50	0	1.22	0.00	30.21	0.00
10yr3d	NSLRWCD C37	BASE	181.01	9.59	18.50	0	1.22	0.00	30.24	0.00
10yr3d	NSLRWCD C37	BASE	181.26	9.59	18.50	0	1.21	0.00	30.26	0.00
10yr3d	NSLRWCD C37	BASE	181.51	9.59	18.50	0	1.21	0.00	30.29	0.00
10yr3d	NSLRWCD C37	BASE	181.76	9.59	18.50	0	1.20	0.00	30.31	0.00
10yr3d	NSLRWCD C37	BASE	182.01	9.58	18.50	0	1.20	0.00	30.34	0.00
10yr3d	NSLRWCD C37	BASE	182.26	9.58	18.50	0	1.19	0.00	30.36	0.00
10yr3d	NSLRWCD C37	BASE	182.51	9.58	18.50	0	1.19	0.00	30.39	0.00
10yr3d	NSLRWCD C37	BASE	182.76	9.58	18.50	0	1.18	0.00	30.41	0.00
10yr3d	NSLRWCD C37	BASE	183.01	9.57	18.50	0	1.18	0.00	30.44	0.00
10yr3d	NSLRWCD C37	BASE	183.26	9.57	18.50	0	1.17	0.00	30.46	0.00
10yr3d	NSLRWCD C37	BASE	183.51	9.57	18.50	0	1.17	0.00	30.48	0.00
10yr3d	NSLRWCD C37	BASE	183.76	9.57	18.50	0	1.17	0.00	30.51	0.00
10yr3d	NSLRWCD C37	BASE	184.01	9.56	18.50	0	1.16	0.00	30.53	0.00
10yr3d	NSLRWCD C37	BASE	184.26	9.56	18.50	0	1.16	0.00	30.56	0.00
10yr3d	NSLRWCD C37	BASE	184.51	9.56	18.50	0	1.15	0.00	30.58	0.00
10yr3d	NSLRWCD C37	BASE	184.76	9.56	18.50	0	1.15	0.00	30.60	0.00
10yr3d	NSLRWCD C37	BASE	185.01	9.55	18.50	0	1.14	0.00	30.63	0.00
10yr3d	NSLRWCD C37	BASE	185.26	9.55	18.50	0	1.14	0.00	30.65	0.00
10yr3d	NSLRWCD C37	BASE	185.51	9.55	18.50	0	1.14	0.00	30.68	0.00
10yr3d	NSLRWCD C37	BASE	185.76	9.55	18.50	0	1.13	0.00	30.70	0.00
10yr3d	NSLRWCD C37	BASE	186.01	9.54	18.50	0	1.13	0.00	30.72	0.00
10yr3d	NSLRWCD C37	BASE	186.26	9.54	18.50	0	1.12	0.00	30.75	0.00
10yr3d	NSLRWCD C37	BASE	186.51	9.54	18.50	0	1.12	0.00	30.77	0.00
10yr3d	NSLRWCD C37	BASE	186.76	9.54	18.50	0	1.12	0.00	30.79	0.00
10yr3d	NSLRWCD C37	BASE	187.01	9.53	18.50	0	1.11	0.00	30.81	0.00
10yr3d	NSLRWCD C37	BASE	187.26	9.53	18.50	0	1.11	0.00	30.84	0.00
10yr3d	NSLRWCD C37	BASE	187.51	9.53	18.50	0	1.11	0.00	30.86	0.00
10yr3d	NSLRWCD C37	BASE	187.76	9.53	18.50	0	1.10	0.00	30.88	0.00
10yr3d	NSLRWCD C37	BASE	188.01	9.52	18.50	0	1.10	0.00	30.91	0.00
10yr3d	NSLRWCD C37	BASE	188.26	9.52	18.50	0	1.09	0.00	30.93	0.00
10yr3d	NSLRWCD C37	BASE	188.51	9.52	18.50	0	1.09	0.00	30.95	0.00
10yr3d	NSLRWCD C37	BASE	188.76	9.52	18.50	0	1.09	0.00	30.97	0.00
10yr3d	NSLRWCD C37	BASE	189.01	9.51	18.50	0	1.08	0.00	31.00	0.00
10yr3d	NSLRWCD C37	BASE	189.26	9.51	18.50	0	1.08	0.00	31.02	0.00
10yr3d	NSLRWCD C37	BASE	189.51	9.51	18.50	0	1.08	0.00	31.04	0.00
10yr3d	NSLRWCD C37	BASE	189.76	9.51	18.50	0	1.07	0.00	31.06	0.00
10yr3d	NSLRWCD C37	BASE	190.01	9.50	18.50	0	1.07	0.00	31.09	0.00
10yr3d	NSLRWCD C37	BASE	190.26	9.50	18.50	0	1.07	0.00	31.11	0.00
10yr3d	NSLRWCD C37	BASE	190.51	9.50	18.50	0	1.06	0.00	31.13	0.00
10yr3d	NSLRWCD C37	BASE	190.76	9.50	18.50	0	1.06	0.00	31.15	0.00
10yr3d	NSLRWCD C37	BASE	191.01	9.49	18.50	0	1.06	0.00	31.17	0.00
10yr3d	NSLRWCD C37	BASE	191.26	9.49	18.50	0	1.05	0.00	31.19	0.00
10yr3d	NSLRWCD C37	BASE	191.51	9.49	18.50	0	1.05	0.00	31.22	0.00
10yr3d	NSLRWCD C37	BASE	191.76	9.49	18.50	0	1.05	0.00	31.24	0.00
10yr3d	NSLRWCD C37	BASE	192.01	9.48	18.50	0	1.04	0.00	31.26	0.00
10yr3d	NSLRWCD C37	BASE	192.26	9.48	18.50	0	1.04	0.00	31.28	0.00
10yr3d	NSLRWCD C37	BASE	192.51	9.48	18.50	0	1.04	0.00	31.30	0.00
10yr3d	NSLRWCD C37	BASE	192.76	9.48	18.50	0	1.03	0.00	31.32	0.00
10yr3d	NSLRWCD C37	BASE	193.01	9.47	18.50	0	1.03	0.00	31.35	0.00
10yr3d	NSLRWCD C37	BASE	193.26	9.47	18.50	0	1.03	0.00	31.37	0.00
10yr3d	NSLRWCD C37	BASE	193.51	9.47	18.50	0	1.03	0.00	31.39	0.00
10yr3d	NSLRWCD C37	BASE	193.76	9.47	18.50	0	1.02	0.00	31.41	0.00
10yr3d	NSLRWCD C37	BASE	194.01	9.46	18.50	0	1.02	0.00	31.43	0.00
10yr3d	NSLRWCD C37	BASE	194.26	9.46	18.50	0	1.02	0.00	31.45	0.00
10yr3d	NSLRWCD C37	BASE	194.51	9.46	18.50	0	1.01	0.00	31.47	0.00
10yr3d	NSLRWCD C37	BASE	194.76	9.46	18.50	0	1.01	0.00	31.49	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	195.01	9.45	18.50	0	1.01	0.00	31.51	0.00
10yr3d	NSLRWCD C37	BASE	195.26	9.45	18.50	0	1.01	0.00	31.53	0.00
10yr3d	NSLRWCD C37	BASE	195.51	9.45	18.50	0	1.00	0.00	31.56	0.00
10yr3d	NSLRWCD C37	BASE	195.76	9.45	18.50	0	1.00	0.00	31.58	0.00
10yr3d	NSLRWCD C37	BASE	196.01	9.44	18.50	0	1.00	0.00	31.60	0.00
10yr3d	NSLRWCD C37	BASE	196.26	9.44	18.50	0	0.99	0.00	31.62	0.00
10yr3d	NSLRWCD C37	BASE	196.51	9.44	18.50	0	0.99	0.00	31.64	0.00
10yr3d	NSLRWCD C37	BASE	196.76	9.44	18.50	0	0.99	0.00	31.66	0.00
10yr3d	NSLRWCD C37	BASE	197.01	9.43	18.50	0	0.99	0.00	31.68	0.00
10yr3d	NSLRWCD C37	BASE	197.26	9.43	18.50	0	0.98	0.00	31.70	0.00
10yr3d	NSLRWCD C37	BASE	197.51	9.43	18.50	0	0.98	0.00	31.72	0.00
10yr3d	NSLRWCD C37	BASE	197.76	9.42	18.50	0	0.98	0.00	31.74	0.00
10yr3d	NSLRWCD C37	BASE	198.01	9.42	18.50	0	0.98	0.00	31.76	0.00
10yr3d	NSLRWCD C37	BASE	198.26	9.42	18.50	0	0.97	0.00	31.78	0.00
10yr3d	NSLRWCD C37	BASE	198.51	9.42	18.50	0	0.97	0.00	31.80	0.00
10yr3d	NSLRWCD C37	BASE	198.76	9.41	18.50	0	0.97	0.00	31.82	0.00
10yr3d	NSLRWCD C37	BASE	199.01	9.41	18.50	0	0.97	0.00	31.84	0.00
10yr3d	NSLRWCD C37	BASE	199.26	9.41	18.50	0	0.96	0.00	31.86	0.00
10yr3d	NSLRWCD C37	BASE	199.51	9.41	18.50	0	0.96	0.00	31.88	0.00
10yr3d	NSLRWCD C37	BASE	199.76	9.40	18.50	0	0.96	0.00	31.90	0.00
10yr3d	NSLRWCD C37	BASE	200.01	9.40	18.50	0	0.96	0.00	31.92	0.00
10yr3d	NSLRWCD C37	BASE	200.26	9.40	18.50	0	0.95	0.00	31.94	0.00
10yr3d	NSLRWCD C37	BASE	200.51	9.40	18.50	0	0.95	0.00	31.96	0.00
10yr3d	NSLRWCD C37	BASE	200.76	9.39	18.50	0	0.95	0.00	31.98	0.00
10yr3d	NSLRWCD C37	BASE	201.01	9.39	18.50	0	0.95	0.00	32.00	0.00
10yr3d	NSLRWCD C37	BASE	201.26	9.39	18.50	0	0.95	0.00	32.02	0.00
10yr3d	NSLRWCD C37	BASE	201.51	9.39	18.50	0	0.94	0.00	32.04	0.00
10yr3d	NSLRWCD C37	BASE	201.76	9.38	18.50	0	0.94	0.00	32.06	0.00
10yr3d	NSLRWCD C37	BASE	202.01	9.38	18.50	0	0.94	0.00	32.08	0.00
10yr3d	NSLRWCD C37	BASE	202.26	9.38	18.50	0	0.94	0.00	32.10	0.00
10yr3d	NSLRWCD C37	BASE	202.51	9.38	18.50	0	0.93	0.00	32.12	0.00
10yr3d	NSLRWCD C37	BASE	202.76	9.37	18.50	0	0.93	0.00	32.13	0.00
10yr3d	NSLRWCD C37	BASE	203.01	9.37	18.50	0	0.93	0.00	32.15	0.00
10yr3d	NSLRWCD C37	BASE	203.26	9.37	18.50	0	0.93	0.00	32.17	0.00
10yr3d	NSLRWCD C37	BASE	203.51	9.37	18.50	0	0.93	0.00	32.19	0.00
10yr3d	NSLRWCD C37	BASE	203.76	9.36	18.50	0	0.92	0.00	32.21	0.00
10yr3d	NSLRWCD C37	BASE	204.01	9.36	18.50	0	0.92	0.00	32.23	0.00
10yr3d	NSLRWCD C37	BASE	204.26	9.36	18.50	0	0.92	0.00	32.25	0.00
10yr3d	NSLRWCD C37	BASE	204.51	9.36	18.50	0	0.92	0.00	32.27	0.00
10yr3d	NSLRWCD C37	BASE	204.76	9.35	18.50	0	0.91	0.00	32.29	0.00
10yr3d	NSLRWCD C37	BASE	205.01	9.35	18.50	0	0.91	0.00	32.31	0.00
10yr3d	NSLRWCD C37	BASE	205.26	9.35	18.50	0	0.91	0.00	32.32	0.00
10yr3d	NSLRWCD C37	BASE	205.51	9.35	18.50	0	0.91	0.00	32.34	0.00
10yr3d	NSLRWCD C37	BASE	205.76	9.34	18.50	0	0.91	0.00	32.36	0.00
10yr3d	NSLRWCD C37	BASE	206.01	9.34	18.50	0	0.90	0.00	32.38	0.00
10yr3d	NSLRWCD C37	BASE	206.26	9.34	18.50	0	0.90	0.00	32.40	0.00
10yr3d	NSLRWCD C37	BASE	206.51	9.34	18.50	0	0.90	0.00	32.42	0.00
10yr3d	NSLRWCD C37	BASE	206.76	9.33	18.50	0	0.90	0.00	32.44	0.00
10yr3d	NSLRWCD C37	BASE	207.01	9.33	18.50	0	0.90	0.00	32.46	0.00
10yr3d	NSLRWCD C37	BASE	207.26	9.33	18.50	0	0.89	0.00	32.47	0.00
10yr3d	NSLRWCD C37	BASE	207.51	9.33	18.50	0	0.89	0.00	32.49	0.00
10yr3d	NSLRWCD C37	BASE	207.76	9.32	18.50	0	0.89	0.00	32.51	0.00
10yr3d	NSLRWCD C37	BASE	208.01	9.32	18.50	0	0.89	0.00	32.53	0.00
10yr3d	NSLRWCD C37	BASE	208.26	9.32	18.50	0	0.89	0.00	32.55	0.00
10yr3d	NSLRWCD C37	BASE	208.51	9.32	18.50	0	0.89	0.00	32.57	0.00
10yr3d	NSLRWCD C37	BASE	208.76	9.31	18.50	0	0.88	0.00	32.58	0.00
10yr3d	NSLRWCD C37	BASE	209.01	9.31	18.50	0	0.88	0.00	32.60	0.00
10yr3d	NSLRWCD C37	BASE	209.26	9.31	18.50	0	0.88	0.00	32.62	0.00
10yr3d	NSLRWCD C37	BASE	209.51	9.31	18.50	0	0.88	0.00	32.64	0.00
10yr3d	NSLRWCD C37	BASE	209.76	9.30	18.50	0	0.88	0.00	32.66	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	210.01	9.30	18.50	0	0.87	0.00	32.68	0.00
10yr3d	NSLRWCD C37	BASE	210.26	9.30	18.50	0	0.87	0.00	32.69	0.00
10yr3d	NSLRWCD C37	BASE	210.51	9.30	18.50	0	0.87	0.00	32.71	0.00
10yr3d	NSLRWCD C37	BASE	210.76	9.29	18.50	0	0.87	0.00	32.73	0.00
10yr3d	NSLRWCD C37	BASE	211.01	9.29	18.50	0	0.87	0.00	32.75	0.00
10yr3d	NSLRWCD C37	BASE	211.26	9.29	18.50	0	0.87	0.00	32.76	0.00
10yr3d	NSLRWCD C37	BASE	211.51	9.29	18.50	0	0.86	0.00	32.78	0.00
10yr3d	NSLRWCD C37	BASE	211.76	9.28	18.50	0	0.86	0.00	32.80	0.00
10yr3d	NSLRWCD C37	BASE	212.01	9.28	18.50	0	0.86	0.00	32.82	0.00
10yr3d	NSLRWCD C37	BASE	212.26	9.28	18.50	0	0.86	0.00	32.84	0.00
10yr3d	NSLRWCD C37	BASE	212.51	9.28	18.50	0	0.86	0.00	32.85	0.00
10yr3d	NSLRWCD C37	BASE	212.76	9.27	18.50	0	0.85	0.00	32.87	0.00
10yr3d	NSLRWCD C37	BASE	213.01	9.27	18.50	0	0.85	0.00	32.89	0.00
10yr3d	NSLRWCD C37	BASE	213.26	9.27	18.50	0	0.85	0.00	32.91	0.00
10yr3d	NSLRWCD C37	BASE	213.51	9.27	18.50	0	0.85	0.00	32.92	0.00
10yr3d	NSLRWCD C37	BASE	213.76	9.26	18.50	0	0.85	0.00	32.94	0.00
10yr3d	NSLRWCD C37	BASE	214.01	9.26	18.50	0	0.85	0.00	32.96	0.00
10yr3d	NSLRWCD C37	BASE	214.26	9.26	18.50	0	0.84	0.00	32.98	0.00
10yr3d	NSLRWCD C37	BASE	214.51	9.26	18.50	0	0.84	0.00	32.99	0.00
10yr3d	NSLRWCD C37	BASE	214.76	9.25	18.50	0	0.84	0.00	33.01	0.00
10yr3d	NSLRWCD C37	BASE	215.01	9.25	18.50	0	0.84	0.00	33.03	0.00
10yr3d	NSLRWCD C37	BASE	215.26	9.25	18.50	0	0.84	0.00	33.05	0.00
10yr3d	NSLRWCD C37	BASE	215.51	9.25	18.50	0	0.84	0.00	33.06	0.00
10yr3d	NSLRWCD C37	BASE	215.76	9.24	18.50	0	0.83	0.00	33.08	0.00
10yr3d	NSLRWCD C37	BASE	216.01	9.24	18.50	0	0.83	0.00	33.10	0.00
10yr3d	NSLRWCD C37	BASE	216.26	9.24	18.50	0	0.83	0.00	33.12	0.00
10yr3d	NSLRWCD C37	BASE	216.51	9.23	18.50	0	0.83	0.00	33.13	0.00
10yr3d	NSLRWCD C37	BASE	216.76	9.23	18.50	0	0.83	0.00	33.15	0.00
10yr3d	NSLRWCD C37	BASE	217.01	9.23	18.50	0	0.83	0.00	33.17	0.00
10yr3d	NSLRWCD C37	BASE	217.26	9.23	18.50	0	0.82	0.00	33.18	0.00
10yr3d	NSLRWCD C37	BASE	217.51	9.22	18.50	0	0.82	0.00	33.20	0.00
10yr3d	NSLRWCD C37	BASE	217.76	9.22	18.50	0	0.82	0.00	33.22	0.00
10yr3d	NSLRWCD C37	BASE	218.01	9.22	18.50	0	0.82	0.00	33.23	0.00
10yr3d	NSLRWCD C37	BASE	218.26	9.22	18.50	0	0.82	0.00	33.25	0.00
10yr3d	NSLRWCD C37	BASE	218.51	9.21	18.50	0	0.82	0.00	33.27	0.00
10yr3d	NSLRWCD C37	BASE	218.76	9.21	18.50	0	0.82	0.00	33.29	0.00
10yr3d	NSLRWCD C37	BASE	219.01	9.21	18.50	0	0.81	0.00	33.30	0.00
10yr3d	NSLRWCD C37	BASE	219.26	9.21	18.50	0	0.81	0.00	33.32	0.00
10yr3d	NSLRWCD C37	BASE	219.51	9.20	18.50	0	0.81	0.00	33.34	0.00
10yr3d	NSLRWCD C37	BASE	219.76	9.20	18.50	0	0.81	0.00	33.35	0.00
10yr3d	NSLRWCD C37	BASE	220.01	9.20	18.50	0	0.81	0.00	33.37	0.00
10yr3d	NSLRWCD C37	BASE	220.26	9.20	18.50	0	0.81	0.00	33.39	0.00
10yr3d	NSLRWCD C37	BASE	220.51	9.19	18.50	0	0.80	0.00	33.40	0.00
10yr3d	NSLRWCD C37	BASE	220.76	9.19	18.50	0	0.80	0.00	33.42	0.00
10yr3d	NSLRWCD C37	BASE	221.01	9.19	18.50	0	0.80	0.00	33.44	0.00
10yr3d	NSLRWCD C37	BASE	221.26	9.19	18.50	0	0.80	0.00	33.45	0.00
10yr3d	NSLRWCD C37	BASE	221.51	9.18	18.50	0	0.80	0.00	33.47	0.00
10yr3d	NSLRWCD C37	BASE	221.76	9.18	18.50	0	0.80	0.00	33.49	0.00
10yr3d	NSLRWCD C37	BASE	222.01	9.18	18.50	0	0.80	0.00	33.50	0.00
10yr3d	NSLRWCD C37	BASE	222.26	9.18	18.50	0	0.79	0.00	33.52	0.00
10yr3d	NSLRWCD C37	BASE	222.51	9.17	18.50	0	0.79	0.00	33.53	0.00
10yr3d	NSLRWCD C37	BASE	222.76	9.17	18.50	0	0.79	0.00	33.55	0.00
10yr3d	NSLRWCD C37	BASE	223.01	9.17	18.50	0	0.79	0.00	33.57	0.00
10yr3d	NSLRWCD C37	BASE	223.26	9.17	18.50	0	0.79	0.00	33.58	0.00
10yr3d	NSLRWCD C37	BASE	223.51	9.16	18.50	0	0.79	0.00	33.60	0.00
10yr3d	NSLRWCD C37	BASE	223.76	9.16	18.50	0	0.79	0.00	33.62	0.00
10yr3d	NSLRWCD C37	BASE	224.01	9.16	18.50	0	0.78	0.00	33.63	0.00
10yr3d	NSLRWCD C37	BASE	224.26	9.16	18.50	0	0.78	0.00	33.65	0.00
10yr3d	NSLRWCD C37	BASE	224.51	9.15	18.50	0	0.78	0.00	33.66	0.00
10yr3d	NSLRWCD C37	BASE	224.76	9.15	18.50	0	0.78	0.00	33.68	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	225.01	9.15	18.50	0	0.78	0.00	33.70	0.00
10yr3d	NSLRWCD C37	BASE	225.26	9.15	18.50	0	0.78	0.00	33.71	0.00
10yr3d	NSLRWCD C37	BASE	225.51	9.14	18.50	0	0.78	0.00	33.73	0.00
10yr3d	NSLRWCD C37	BASE	225.76	9.14	18.50	0	0.77	0.00	33.74	0.00
10yr3d	NSLRWCD C37	BASE	226.01	9.14	18.50	0	0.77	0.00	33.76	0.00
10yr3d	NSLRWCD C37	BASE	226.26	9.14	18.50	0	0.77	0.00	33.78	0.00
10yr3d	NSLRWCD C37	BASE	226.51	9.13	18.50	0	0.77	0.00	33.79	0.00
10yr3d	NSLRWCD C37	BASE	226.76	9.13	18.50	0	0.77	0.00	33.81	0.00
10yr3d	NSLRWCD C37	BASE	227.01	9.13	18.50	0	0.77	0.00	33.82	0.00
10yr3d	NSLRWCD C37	BASE	227.26	9.13	18.50	0	0.77	0.00	33.84	0.00
10yr3d	NSLRWCD C37	BASE	227.51	9.12	18.50	0	0.76	0.00	33.86	0.00
10yr3d	NSLRWCD C37	BASE	227.76	9.12	18.50	0	0.76	0.00	33.87	0.00
10yr3d	NSLRWCD C37	BASE	228.01	9.12	18.50	0	0.76	0.00	33.89	0.00
10yr3d	NSLRWCD C37	BASE	228.26	9.12	18.50	0	0.76	0.00	33.90	0.00
10yr3d	NSLRWCD C37	BASE	228.51	9.11	18.50	0	0.76	0.00	33.92	0.00
10yr3d	NSLRWCD C37	BASE	228.76	9.11	18.50	0	0.76	0.00	33.93	0.00
10yr3d	NSLRWCD C37	BASE	229.01	9.11	18.50	0	0.76	0.00	33.95	0.00
10yr3d	NSLRWCD C37	BASE	229.26	9.11	18.50	0	0.75	0.00	33.97	0.00
10yr3d	NSLRWCD C37	BASE	229.51	9.10	18.50	0	0.75	0.00	33.98	0.00
10yr3d	NSLRWCD C37	BASE	229.76	9.10	18.50	0	0.75	0.00	34.00	0.00
10yr3d	NSLRWCD C37	BASE	230.01	9.10	18.50	0	0.75	0.00	34.01	0.00
10yr3d	NSLRWCD C37	BASE	230.26	9.10	18.50	0	0.75	0.00	34.03	0.00
10yr3d	NSLRWCD C37	BASE	230.51	9.09	18.50	0	0.75	0.00	34.04	0.00
10yr3d	NSLRWCD C37	BASE	230.76	9.09	18.50	0	0.75	0.00	34.06	0.00
10yr3d	NSLRWCD C37	BASE	231.01	9.09	18.50	0	0.75	0.00	34.07	0.00
10yr3d	NSLRWCD C37	BASE	231.26	9.09	18.50	0	0.74	0.00	34.09	0.00
10yr3d	NSLRWCD C37	BASE	231.51	9.08	18.50	0	0.74	0.00	34.11	0.00
10yr3d	NSLRWCD C37	BASE	231.76	9.08	18.50	0	0.74	0.00	34.12	0.00
10yr3d	NSLRWCD C37	BASE	232.01	9.08	18.50	0	0.74	0.00	34.14	0.00
10yr3d	NSLRWCD C37	BASE	232.26	9.08	18.50	0	0.74	0.00	34.15	0.00
10yr3d	NSLRWCD C37	BASE	232.51	9.07	18.50	0	0.74	0.00	34.17	0.00
10yr3d	NSLRWCD C37	BASE	232.76	9.07	18.50	0	0.74	0.00	34.18	0.00
10yr3d	NSLRWCD C37	BASE	233.01	9.07	18.50	0	0.73	0.00	34.20	0.00
10yr3d	NSLRWCD C37	BASE	233.26	9.07	18.50	0	0.73	0.00	34.21	0.00
10yr3d	NSLRWCD C37	BASE	233.51	9.06	18.50	0	0.73	0.00	34.23	0.00
10yr3d	NSLRWCD C37	BASE	233.76	9.06	18.50	0	0.73	0.00	34.24	0.00
10yr3d	NSLRWCD C37	BASE	234.01	9.06	18.50	0	0.73	0.00	34.26	0.00
10yr3d	NSLRWCD C37	BASE	234.26	9.05	18.50	0	0.73	0.00	34.27	0.00
10yr3d	NSLRWCD C37	BASE	234.51	9.05	18.50	0	0.73	0.00	34.29	0.00
10yr3d	NSLRWCD C37	BASE	234.76	9.05	18.50	0	0.73	0.00	34.30	0.00
10yr3d	NSLRWCD C37	BASE	235.01	9.05	18.50	0	0.72	0.00	34.32	0.00
10yr3d	NSLRWCD C37	BASE	235.26	9.04	18.50	0	0.72	0.00	34.33	0.00
10yr3d	NSLRWCD C37	BASE	235.51	9.04	18.50	0	0.72	0.00	34.35	0.00
10yr3d	NSLRWCD C37	BASE	235.76	9.04	18.50	0	0.72	0.00	34.36	0.00
10yr3d	NSLRWCD C37	BASE	236.01	9.04	18.50	0	0.72	0.00	34.38	0.00
10yr3d	NSLRWCD C37	BASE	236.26	9.03	18.50	0	0.72	0.00	34.39	0.00
10yr3d	NSLRWCD C37	BASE	236.51	9.03	18.50	0	0.72	0.00	34.41	0.00
10yr3d	NSLRWCD C37	BASE	236.76	9.03	18.50	0	0.72	0.00	34.42	0.00
10yr3d	NSLRWCD C37	BASE	237.01	9.03	18.50	0	0.71	0.00	34.44	0.00
10yr3d	NSLRWCD C37	BASE	237.26	9.02	18.50	0	0.71	0.00	34.45	0.00
10yr3d	NSLRWCD C37	BASE	237.51	9.02	18.50	0	0.71	0.00	34.47	0.00
10yr3d	NSLRWCD C37	BASE	237.76	9.02	18.50	0	0.71	0.00	34.48	0.00
10yr3d	NSLRWCD C37	BASE	238.01	9.02	18.50	0	0.71	0.00	34.50	0.00
10yr3d	NSLRWCD C37	BASE	238.26	9.01	18.50	0	0.71	0.00	34.51	0.00
10yr3d	NSLRWCD C37	BASE	238.51	9.01	18.50	0	0.71	0.00	34.52	0.00
10yr3d	NSLRWCD C37	BASE	238.76	9.01	18.50	0	0.71	0.00	34.54	0.00
10yr3d	NSLRWCD C37	BASE	239.01	9.01	18.50	0	0.70	0.00	34.55	0.00
10yr3d	NSLRWCD C37	BASE	239.26	9.00	18.50	0	0.70	0.00	34.57	0.00
10yr3d	NSLRWCD C37	BASE	239.51	9.00	18.50	0	0.70	0.00	34.58	0.00
10yr3d	NSLRWCD C37	BASE	239.76	9.00	18.50	0	0.70	0.00	34.60	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	240.01	9.00	18.50	0	0.70	0.00	34.61	0.00
10yr3d	NSLRWCD C37	BASE	240.26	8.99	18.50	0	0.70	0.00	34.63	0.00
10yr3d	NSLRWCD C37	BASE	240.51	8.99	18.50	0	0.70	0.00	34.64	0.00
10yr3d	NSLRWCD C37	BASE	240.76	8.99	18.50	0	0.70	0.00	34.65	0.00
10yr3d	NSLRWCD C37	BASE	241.01	8.99	18.50	0	0.70	0.00	34.67	0.00
10yr3d	NSLRWCD C37	BASE	241.26	8.98	18.50	0	0.69	0.00	34.68	0.00
10yr3d	NSLRWCD C37	BASE	241.51	8.98	18.50	0	0.69	0.00	34.70	0.00
10yr3d	NSLRWCD C37	BASE	241.76	8.98	18.50	0	0.69	0.00	34.71	0.00
10yr3d	NSLRWCD C37	BASE	242.01	8.98	18.50	0	0.69	0.00	34.73	0.00
10yr3d	NSLRWCD C37	BASE	242.26	8.97	18.50	0	0.69	0.00	34.74	0.00
10yr3d	NSLRWCD C37	BASE	242.51	8.97	18.50	0	0.69	0.00	34.76	0.00
10yr3d	NSLRWCD C37	BASE	242.76	8.97	18.50	0	0.69	0.00	34.77	0.00
10yr3d	NSLRWCD C37	BASE	243.01	8.97	18.50	0	0.69	0.00	34.78	0.00
10yr3d	NSLRWCD C37	BASE	243.26	8.96	18.50	0	0.68	0.00	34.80	0.00
10yr3d	NSLRWCD C37	BASE	243.51	8.96	18.50	0	0.68	0.00	34.81	0.00
10yr3d	NSLRWCD C37	BASE	243.76	8.96	18.50	0	0.68	0.00	34.83	0.00
10yr3d	NSLRWCD C37	BASE	244.01	8.96	18.50	0	0.68	0.00	34.84	0.00
10yr3d	NSLRWCD C37	BASE	244.26	8.95	18.50	0	0.68	0.00	34.85	0.00
10yr3d	NSLRWCD C37	BASE	244.51	8.95	18.50	0	0.68	0.00	34.87	0.00
10yr3d	NSLRWCD C37	BASE	244.76	8.95	18.50	0	0.68	0.00	34.88	0.00
10yr3d	NSLRWCD C37	BASE	245.01	8.95	18.50	0	0.68	0.00	34.90	0.00
10yr3d	NSLRWCD C37	BASE	245.26	8.94	18.50	0	0.68	0.00	34.91	0.00
10yr3d	NSLRWCD C37	BASE	245.51	8.94	18.50	0	0.67	0.00	34.92	0.00
10yr3d	NSLRWCD C37	BASE	245.76	8.94	18.50	0	0.67	0.00	34.94	0.00
10yr3d	NSLRWCD C37	BASE	246.01	8.94	18.50	0	0.67	0.00	34.95	0.00
10yr3d	NSLRWCD C37	BASE	246.26	8.93	18.50	0	0.67	0.00	34.97	0.00
10yr3d	NSLRWCD C37	BASE	246.51	8.93	18.50	0	0.67	0.00	34.98	0.00
10yr3d	NSLRWCD C37	BASE	246.76	8.93	18.50	0	0.67	0.00	34.99	0.00
10yr3d	NSLRWCD C37	BASE	247.01	8.93	18.50	0	0.67	0.00	35.01	0.00
10yr3d	NSLRWCD C37	BASE	247.26	8.92	18.50	0	0.67	0.00	35.02	0.00
10yr3d	NSLRWCD C37	BASE	247.51	8.92	18.50	0	0.66	0.00	35.03	0.00
10yr3d	NSLRWCD C37	BASE	247.76	8.92	18.50	0	0.66	0.00	35.05	0.00
10yr3d	NSLRWCD C37	BASE	248.01	8.92	18.50	0	0.66	0.00	35.06	0.00
10yr3d	NSLRWCD C37	BASE	248.26	8.91	18.50	0	0.66	0.00	35.08	0.00
10yr3d	NSLRWCD C37	BASE	248.51	8.91	18.50	0	0.66	0.00	35.09	0.00
10yr3d	NSLRWCD C37	BASE	248.76	8.91	18.50	0	0.66	0.00	35.10	0.00
10yr3d	NSLRWCD C37	BASE	249.01	8.91	18.50	0	0.66	0.00	35.12	0.00
10yr3d	NSLRWCD C37	BASE	249.26	8.90	18.50	0	0.66	0.00	35.13	0.00
10yr3d	NSLRWCD C37	BASE	249.51	8.90	18.50	0	0.66	0.00	35.14	0.00
10yr3d	NSLRWCD C37	BASE	249.76	8.90	18.50	0	0.65	0.00	35.16	0.00
10yr3d	NSLRWCD C37	BASE	250.01	8.90	18.50	0	0.65	0.00	35.17	0.00
10yr3d	NSLRWCD C37	BASE	250.26	8.89	18.50	0	0.65	0.00	35.18	0.00
10yr3d	NSLRWCD C37	BASE	250.51	8.89	18.50	0	0.65	0.00	35.20	0.00
10yr3d	NSLRWCD C37	BASE	250.76	8.89	18.50	0	0.65	0.00	35.21	0.00
10yr3d	NSLRWCD C37	BASE	251.01	8.89	18.50	0	0.65	0.00	35.22	0.00
10yr3d	NSLRWCD C37	BASE	251.26	8.88	18.50	0	0.65	0.00	35.24	0.00
10yr3d	NSLRWCD C37	BASE	251.51	8.88	18.50	0	0.65	0.00	35.25	0.00
10yr3d	NSLRWCD C37	BASE	251.76	8.88	18.50	0	0.65	0.00	35.26	0.00
10yr3d	NSLRWCD C37	BASE	252.01	8.87	18.50	0	0.64	0.00	35.28	0.00
10yr3d	NSLRWCD C37	BASE	252.26	8.87	18.50	0	0.64	0.00	35.29	0.00
10yr3d	NSLRWCD C37	BASE	252.51	8.87	18.50	0	0.64	0.00	35.30	0.00
10yr3d	NSLRWCD C37	BASE	252.76	8.87	18.50	0	0.64	0.00	35.32	0.00
10yr3d	NSLRWCD C37	BASE	253.01	8.86	18.50	0	0.64	0.00	35.33	0.00
10yr3d	NSLRWCD C37	BASE	253.26	8.86	18.50	0	0.64	0.00	35.34	0.00
10yr3d	NSLRWCD C37	BASE	253.51	8.86	18.50	0	0.64	0.00	35.36	0.00
10yr3d	NSLRWCD C37	BASE	253.76	8.86	18.50	0	0.64	0.00	35.37	0.00
10yr3d	NSLRWCD C37	BASE	254.01	8.85	18.50	0	0.64	0.00	35.38	0.00
10yr3d	NSLRWCD C37	BASE	254.26	8.85	18.50	0	0.63	0.00	35.40	0.00
10yr3d	NSLRWCD C37	BASE	254.51	8.85	18.50	0	0.63	0.00	35.41	0.00
10yr3d	NSLRWCD C37	BASE	254.76	8.85	18.50	0	0.63	0.00	35.42	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	255.01	8.84	18.50	0	0.63	0.00	35.44	0.00
10yr3d	NSLRWCD C37	BASE	255.26	8.84	18.50	0	0.63	0.00	35.45	0.00
10yr3d	NSLRWCD C37	BASE	255.51	8.84	18.50	0	0.63	0.00	35.46	0.00
10yr3d	NSLRWCD C37	BASE	255.76	8.84	18.50	0	0.63	0.00	35.48	0.00
10yr3d	NSLRWCD C37	BASE	256.01	8.83	18.50	0	0.63	0.00	35.49	0.00
10yr3d	NSLRWCD C37	BASE	256.26	8.83	18.50	0	0.63	0.00	35.50	0.00
10yr3d	NSLRWCD C37	BASE	256.51	8.83	18.50	0	0.62	0.00	35.51	0.00
10yr3d	NSLRWCD C37	BASE	256.76	8.83	18.50	0	0.62	0.00	35.53	0.00
10yr3d	NSLRWCD C37	BASE	257.01	8.82	18.50	0	0.62	0.00	35.54	0.00
10yr3d	NSLRWCD C37	BASE	257.26	8.82	18.50	0	0.62	0.00	35.55	0.00
10yr3d	NSLRWCD C37	BASE	257.51	8.82	18.50	0	0.62	0.00	35.57	0.00
10yr3d	NSLRWCD C37	BASE	257.76	8.82	18.50	0	0.62	0.00	35.58	0.00
10yr3d	NSLRWCD C37	BASE	258.01	8.81	18.50	0	0.62	0.00	35.59	0.00
10yr3d	NSLRWCD C37	BASE	258.26	8.81	18.50	0	0.62	0.00	35.60	0.00
10yr3d	NSLRWCD C37	BASE	258.51	8.81	18.50	0	0.62	0.00	35.62	0.00
10yr3d	NSLRWCD C37	BASE	258.76	8.81	18.50	0	0.62	0.00	35.63	0.00
10yr3d	NSLRWCD C37	BASE	259.01	8.80	18.50	0	0.61	0.00	35.64	0.00
10yr3d	NSLRWCD C37	BASE	259.26	8.80	18.50	0	0.61	0.00	35.65	0.00
10yr3d	NSLRWCD C37	BASE	259.51	8.80	18.50	0	0.61	0.00	35.67	0.00
10yr3d	NSLRWCD C37	BASE	259.76	8.80	18.50	0	0.61	0.00	35.68	0.00
10yr3d	NSLRWCD C37	BASE	260.01	8.79	18.50	0	0.61	0.00	35.69	0.00
10yr3d	NSLRWCD C37	BASE	260.26	8.79	18.50	0	0.61	0.00	35.71	0.00
10yr3d	NSLRWCD C37	BASE	260.51	8.79	18.50	0	0.61	0.00	35.72	0.00
10yr3d	NSLRWCD C37	BASE	260.76	8.79	18.50	0	0.61	0.00	35.73	0.00
10yr3d	NSLRWCD C37	BASE	261.01	8.78	18.50	0	0.61	0.00	35.74	0.00
10yr3d	NSLRWCD C37	BASE	261.26	8.78	18.50	0	0.60	0.00	35.76	0.00
10yr3d	NSLRWCD C37	BASE	261.51	8.78	18.50	0	0.60	0.00	35.77	0.00
10yr3d	NSLRWCD C37	BASE	261.76	8.78	18.50	0	0.60	0.00	35.78	0.00
10yr3d	NSLRWCD C37	BASE	262.01	8.77	18.50	0	0.60	0.00	35.79	0.00
10yr3d	NSLRWCD C37	BASE	262.26	8.77	18.50	0	0.60	0.00	35.81	0.00
10yr3d	NSLRWCD C37	BASE	262.51	8.77	18.50	0	0.60	0.00	35.82	0.00
10yr3d	NSLRWCD C37	BASE	262.76	8.77	18.50	0	0.60	0.00	35.83	0.00
10yr3d	NSLRWCD C37	BASE	263.01	8.76	18.50	0	0.60	0.00	35.84	0.00
10yr3d	NSLRWCD C37	BASE	263.26	8.76	18.50	0	0.60	0.00	35.85	0.00
10yr3d	NSLRWCD C37	BASE	263.51	8.76	18.50	0	0.60	0.00	35.87	0.00
10yr3d	NSLRWCD C37	BASE	263.76	8.76	18.50	0	0.59	0.00	35.88	0.00
10yr3d	NSLRWCD C37	BASE	264.01	8.75	18.50	0	0.59	0.00	35.89	0.00
10yr3d	NSLRWCD C37	BASE	264.26	8.75	18.50	0	0.59	0.00	35.90	0.00
10yr3d	NSLRWCD C37	BASE	264.51	8.75	18.50	0	0.59	0.00	35.92	0.00
10yr3d	NSLRWCD C37	BASE	264.76	8.75	18.50	0	0.59	0.00	35.93	0.00
10yr3d	NSLRWCD C37	BASE	265.01	8.74	18.50	0	0.59	0.00	35.94	0.00
10yr3d	NSLRWCD C37	BASE	265.26	8.74	18.50	0	0.59	0.00	35.95	0.00
10yr3d	NSLRWCD C37	BASE	265.51	8.74	18.50	0	0.59	0.00	35.96	0.00
10yr3d	NSLRWCD C37	BASE	265.76	8.74	18.50	0	0.59	0.00	35.98	0.00
10yr3d	NSLRWCD C37	BASE	266.01	8.73	18.50	0	0.59	0.00	35.99	0.00
10yr3d	NSLRWCD C37	BASE	266.26	8.73	18.50	0	0.58	0.00	36.00	0.00
10yr3d	NSLRWCD C37	BASE	266.51	8.73	18.50	0	0.58	0.00	36.01	0.00
10yr3d	NSLRWCD C37	BASE	266.76	8.73	18.50	0	0.58	0.00	36.03	0.00
10yr3d	NSLRWCD C37	BASE	267.01	8.72	18.50	0	0.58	0.00	36.04	0.00
10yr3d	NSLRWCD C37	BASE	267.26	8.72	18.50	0	0.58	0.00	36.05	0.00
10yr3d	NSLRWCD C37	BASE	267.51	8.72	18.50	0	0.58	0.00	36.06	0.00
10yr3d	NSLRWCD C37	BASE	267.76	8.72	18.50	0	0.58	0.00	36.07	0.00
10yr3d	NSLRWCD C37	BASE	268.01	8.71	18.50	0	0.58	0.00	36.08	0.00
10yr3d	NSLRWCD C37	BASE	268.26	8.71	18.50	0	0.58	0.00	36.10	0.00
10yr3d	NSLRWCD C37	BASE	268.51	8.71	18.50	0	0.58	0.00	36.11	0.00
10yr3d	NSLRWCD C37	BASE	268.76	8.71	18.50	0	0.57	0.00	36.12	0.00
10yr3d	NSLRWCD C37	BASE	269.01	8.70	18.50	0	0.57	0.00	36.13	0.00
10yr3d	NSLRWCD C37	BASE	269.26	8.70	18.50	0	0.57	0.00	36.14	0.00
10yr3d	NSLRWCD C37	BASE	269.51	8.70	18.50	0	0.57	0.00	36.16	0.00
10yr3d	NSLRWCD C37	BASE	269.76	8.69	18.50	0	0.57	0.00	36.17	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	270.01	8.69	18.50	0	0.57	0.00	36.18	0.00
10yr3d	NSLRWCD C37	BASE	270.26	8.69	18.50	0	0.57	0.00	36.19	0.00
10yr3d	NSLRWCD C37	BASE	270.51	8.69	18.50	0	0.57	0.00	36.20	0.00
10yr3d	NSLRWCD C37	BASE	270.76	8.68	18.50	0	0.57	0.00	36.22	0.00
10yr3d	NSLRWCD C37	BASE	271.01	8.68	18.50	0	0.57	0.00	36.23	0.00
10yr3d	NSLRWCD C37	BASE	271.26	8.68	18.50	0	0.57	0.00	36.24	0.00
10yr3d	NSLRWCD C37	BASE	271.51	8.68	18.50	0	0.56	0.00	36.25	0.00
10yr3d	NSLRWCD C37	BASE	271.76	8.67	18.50	0	0.56	0.00	36.26	0.00
10yr3d	NSLRWCD C37	BASE	272.01	8.67	18.50	0	0.56	0.00	36.27	0.00
10yr3d	NSLRWCD C37	BASE	272.26	8.67	18.50	0	0.56	0.00	36.28	0.00
10yr3d	NSLRWCD C37	BASE	272.51	8.67	18.50	0	0.56	0.00	36.30	0.00
10yr3d	NSLRWCD C37	BASE	272.76	8.66	18.50	0	0.56	0.00	36.31	0.00
10yr3d	NSLRWCD C37	BASE	273.01	8.66	18.50	0	0.56	0.00	36.32	0.00
10yr3d	NSLRWCD C37	BASE	273.26	8.66	18.50	0	0.56	0.00	36.33	0.00
10yr3d	NSLRWCD C37	BASE	273.51	8.66	18.50	0	0.56	0.00	36.34	0.00
10yr3d	NSLRWCD C37	BASE	273.76	8.65	18.50	0	0.56	0.00	36.35	0.00
10yr3d	NSLRWCD C37	BASE	274.01	8.65	18.50	0	0.56	0.00	36.37	0.00
10yr3d	NSLRWCD C37	BASE	274.26	8.65	18.50	0	0.55	0.00	36.38	0.00
10yr3d	NSLRWCD C37	BASE	274.51	8.65	18.50	0	0.55	0.00	36.39	0.00
10yr3d	NSLRWCD C37	BASE	274.76	8.64	18.50	0	0.55	0.00	36.40	0.00
10yr3d	NSLRWCD C37	BASE	275.01	8.64	18.50	0	0.55	0.00	36.41	0.00
10yr3d	NSLRWCD C37	BASE	275.26	8.64	18.50	0	0.55	0.00	36.42	0.00
10yr3d	NSLRWCD C37	BASE	275.51	8.64	18.50	0	0.55	0.00	36.43	0.00
10yr3d	NSLRWCD C37	BASE	275.76	8.63	18.50	0	0.55	0.00	36.45	0.00
10yr3d	NSLRWCD C37	BASE	276.01	8.63	18.50	0	0.55	0.00	36.46	0.00
10yr3d	NSLRWCD C37	BASE	276.26	8.63	18.50	0	0.55	0.00	36.47	0.00
10yr3d	NSLRWCD C37	BASE	276.51	8.63	18.50	0	0.55	0.00	36.48	0.00
10yr3d	NSLRWCD C37	BASE	276.76	8.62	18.50	0	0.55	0.00	36.49	0.00
10yr3d	NSLRWCD C37	BASE	277.01	8.62	18.50	0	0.54	0.00	36.50	0.00
10yr3d	NSLRWCD C37	BASE	277.26	8.62	18.50	0	0.54	0.00	36.51	0.00
10yr3d	NSLRWCD C37	BASE	277.51	8.62	18.50	0	0.54	0.00	36.52	0.00
10yr3d	NSLRWCD C37	BASE	277.76	8.61	18.50	0	0.54	0.00	36.54	0.00
10yr3d	NSLRWCD C37	BASE	278.01	8.61	18.50	0	0.54	0.00	36.55	0.00
10yr3d	NSLRWCD C37	BASE	278.26	8.61	18.50	0	0.54	0.00	36.56	0.00
10yr3d	NSLRWCD C37	BASE	278.51	8.61	18.50	0	0.54	0.00	36.57	0.00
10yr3d	NSLRWCD C37	BASE	278.76	8.60	18.50	0	0.54	0.00	36.58	0.00
10yr3d	NSLRWCD C37	BASE	279.01	8.60	18.50	0	0.54	0.00	36.59	0.00
10yr3d	NSLRWCD C37	BASE	279.26	8.60	18.50	0	0.54	0.00	36.60	0.00
10yr3d	NSLRWCD C37	BASE	279.51	8.60	18.50	0	0.54	0.00	36.61	0.00
10yr3d	NSLRWCD C37	BASE	279.76	8.59	18.50	0	0.53	0.00	36.62	0.00
10yr3d	NSLRWCD C37	BASE	280.01	8.59	18.50	0	0.53	0.00	36.64	0.00
10yr3d	NSLRWCD C37	BASE	280.26	8.59	18.50	0	0.53	0.00	36.65	0.00
10yr3d	NSLRWCD C37	BASE	280.51	8.59	18.50	0	0.53	0.00	36.66	0.00
10yr3d	NSLRWCD C37	BASE	280.76	8.58	18.50	0	0.53	0.00	36.67	0.00
10yr3d	NSLRWCD C37	BASE	281.01	8.58	18.50	0	0.53	0.00	36.68	0.00
10yr3d	NSLRWCD C37	BASE	281.26	8.58	18.50	0	0.53	0.00	36.69	0.00
10yr3d	NSLRWCD C37	BASE	281.51	8.58	18.50	0	0.53	0.00	36.70	0.00
10yr3d	NSLRWCD C37	BASE	281.76	8.57	18.50	0	0.53	0.00	36.71	0.00
10yr3d	NSLRWCD C37	BASE	282.01	8.57	18.50	0	0.53	0.00	36.72	0.00
10yr3d	NSLRWCD C37	BASE	282.26	8.57	18.50	0	0.53	0.00	36.73	0.00
10yr3d	NSLRWCD C37	BASE	282.51	8.57	18.50	0	0.53	0.00	36.75	0.00
10yr3d	NSLRWCD C37	BASE	282.76	8.56	18.50	0	0.53	0.00	36.76	0.00
10yr3d	NSLRWCD C37	BASE	283.01	8.56	18.50	0	0.52	0.00	36.77	0.00
10yr3d	NSLRWCD C37	BASE	283.26	8.56	18.50	0	0.52	0.00	36.78	0.00
10yr3d	NSLRWCD C37	BASE	283.51	8.56	18.50	0	0.52	0.00	36.79	0.00
10yr3d	NSLRWCD C37	BASE	283.76	8.55	18.50	0	0.52	0.00	36.80	0.00
10yr3d	NSLRWCD C37	BASE	284.01	8.55	18.50	0	0.52	0.00	36.81	0.00
10yr3d	NSLRWCD C37	BASE	284.26	8.55	18.50	0	0.52	0.00	36.82	0.00
10yr3d	NSLRWCD C37	BASE	284.51	8.55	18.50	0	0.52	0.00	36.83	0.00
10yr3d	NSLRWCD C37	BASE	284.76	8.54	18.50	0	0.52	0.00	36.84	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	285.01	8.54	18.50	0	0.52	0.00	36.85	0.00
10yr3d	NSLRWCD C37	BASE	285.26	8.54	18.50	0	0.52	0.00	36.86	0.00
10yr3d	NSLRWCD C37	BASE	285.51	8.54	18.50	0	0.52	0.00	36.87	0.00
10yr3d	NSLRWCD C37	BASE	285.76	8.53	18.50	0	0.52	0.00	36.89	0.00
10yr3d	NSLRWCD C37	BASE	286.01	8.53	18.50	0	0.52	0.00	36.90	0.00
10yr3d	NSLRWCD C37	BASE	286.26	8.53	18.50	0	0.52	0.00	36.91	0.00
10yr3d	NSLRWCD C37	BASE	286.51	8.53	18.50	0	0.51	0.00	36.92	0.00
10yr3d	NSLRWCD C37	BASE	286.76	8.52	18.50	0	0.51	0.00	36.93	0.00
10yr3d	NSLRWCD C37	BASE	287.01	8.52	18.50	0	0.51	0.00	36.94	0.00
10yr3d	NSLRWCD C37	BASE	287.26	8.52	18.50	0	0.51	0.00	36.95	0.00
10yr3d	NSLRWCD C37	BASE	287.51	8.52	18.50	0	0.51	0.00	36.96	0.00
10yr3d	NSLRWCD C37	BASE	287.76	8.51	18.50	0	0.51	0.00	36.97	0.00
10yr3d	NSLRWCD C37	BASE	288.01	8.51	18.50	0	0.51	0.00	36.98	0.00
10yr3d	NSLRWCD C37	BASE	288.26	8.51	18.50	0	0.51	0.00	36.99	0.00
10yr3d	NSLRWCD C37	BASE	288.51	8.50	18.50	0	0.51	0.00	37.00	0.00
10yr3d	NSLRWCD C37	BASE	288.76	8.50	18.50	0	0.51	0.00	37.01	0.00
10yr3d	NSLRWCD C37	BASE	289.01	8.50	18.50	0	0.51	0.00	37.02	0.00
10yr3d	NSLRWCD C37	BASE	289.26	8.50	18.50	0	0.51	0.00	37.03	0.00
10yr3d	NSLRWCD C37	BASE	289.51	8.49	18.50	0	0.51	0.00	37.04	0.00
10yr3d	NSLRWCD C37	BASE	289.76	8.49	18.50	0	0.51	0.00	37.05	0.00
10yr3d	NSLRWCD C37	BASE	290.01	8.49	18.50	0	0.51	0.00	37.06	0.00
10yr3d	NSLRWCD C37	BASE	290.26	8.49	18.50	0	0.51	0.00	37.08	0.00
10yr3d	NSLRWCD C37	BASE	290.51	8.48	18.50	0	0.51	0.00	37.09	0.00
10yr3d	NSLRWCD C37	BASE	290.76	8.48	18.50	0	0.50	0.00	37.10	0.00
10yr3d	NSLRWCD C37	BASE	291.01	8.48	18.50	0	0.50	0.00	37.11	0.00
10yr3d	NSLRWCD C37	BASE	291.26	8.48	18.50	0	0.50	0.00	37.12	0.00
10yr3d	NSLRWCD C37	BASE	291.51	8.47	18.50	0	0.50	0.00	37.13	0.00
10yr3d	NSLRWCD C37	BASE	291.76	8.47	18.50	0	0.50	0.00	37.14	0.00
10yr3d	NSLRWCD C37	BASE	292.01	8.47	18.50	0	0.50	0.00	37.15	0.00
10yr3d	NSLRWCD C37	BASE	292.26	8.47	18.50	0	0.50	0.00	37.16	0.00
10yr3d	NSLRWCD C37	BASE	292.51	8.46	18.50	0	0.50	0.00	37.17	0.00
10yr3d	NSLRWCD C37	BASE	292.76	8.46	18.50	0	0.50	0.00	37.18	0.00
10yr3d	NSLRWCD C37	BASE	293.01	8.46	18.50	0	0.50	0.00	37.19	0.00
10yr3d	NSLRWCD C37	BASE	293.26	8.46	18.50	0	0.50	0.00	37.20	0.00
10yr3d	NSLRWCD C37	BASE	293.51	8.45	18.50	0	0.50	0.00	37.21	0.00
10yr3d	NSLRWCD C37	BASE	293.76	8.45	18.50	0	0.50	0.00	37.22	0.00
10yr3d	NSLRWCD C37	BASE	294.01	8.45	18.50	0	0.50	0.00	37.23	0.00
10yr3d	NSLRWCD C37	BASE	294.26	8.45	18.50	0	0.50	0.00	37.24	0.00
10yr3d	NSLRWCD C37	BASE	294.51	8.44	18.50	0	0.50	0.00	37.25	0.00
10yr3d	NSLRWCD C37	BASE	294.76	8.44	18.50	0	0.50	0.00	37.26	0.00
10yr3d	NSLRWCD C37	BASE	295.01	8.44	18.50	0	0.50	0.00	37.27	0.00
10yr3d	NSLRWCD C37	BASE	295.26	8.44	18.50	0	0.50	0.00	37.28	0.00
10yr3d	NSLRWCD C37	BASE	295.51	8.43	18.50	0	0.50	0.00	37.29	0.00
10yr3d	NSLRWCD C37	BASE	295.76	8.43	18.50	0	0.50	0.00	37.30	0.00
10yr3d	NSLRWCD C37	BASE	296.01	8.43	18.50	0	0.50	0.00	37.31	0.00
10yr3d	NSLRWCD C37	BASE	296.26	8.43	18.50	0	0.50	0.00	37.32	0.00
10yr3d	NSLRWCD C37	BASE	296.51	8.42	18.50	0	0.50	0.00	37.33	0.00
10yr3d	NSLRWCD C37	BASE	296.76	8.42	18.50	0	0.50	0.00	37.34	0.00
10yr3d	NSLRWCD C37	BASE	297.01	8.42	18.50	0	0.50	0.00	37.36	0.00
10yr3d	NSLRWCD C37	BASE	297.26	8.42	18.50	0	0.50	0.00	37.37	0.00
10yr3d	NSLRWCD C37	BASE	297.51	8.41	18.50	0	0.50	0.00	37.38	0.00
10yr3d	NSLRWCD C37	BASE	297.76	8.41	18.50	0	0.50	0.00	37.39	0.00
10yr3d	NSLRWCD C37	BASE	298.01	8.41	18.50	0	0.50	0.00	37.40	0.00
10yr3d	NSLRWCD C37	BASE	298.26	8.41	18.50	0	0.50	0.00	37.41	0.00
10yr3d	NSLRWCD C37	BASE	298.51	8.40	18.50	0	0.50	0.00	37.42	0.00
10yr3d	NSLRWCD C37	BASE	298.76	8.40	18.50	0	0.50	0.00	37.43	0.00
10yr3d	NSLRWCD C37	BASE	299.01	8.40	18.50	0	0.50	0.00	37.44	0.00
10yr3d	NSLRWCD C37	BASE	299.26	8.40	18.50	0	0.50	0.00	37.45	0.00
10yr3d	NSLRWCD C37	BASE	299.51	8.39	18.50	0	0.50	0.00	37.46	0.00
10yr3d	NSLRWCD C37	BASE	299.76	8.39	18.50	0	0.50	0.00	37.47	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	300.01	8.39	18.50	0	0.50	0.00	37.48	0.00
10yr3d	NSLRWCD C37	BASE	300.26	8.39	18.50	0	0.50	0.00	37.49	0.00
10yr3d	NSLRWCD C37	BASE	300.51	8.38	18.50	0	0.50	0.00	37.50	0.00
10yr3d	NSLRWCD C37	BASE	300.76	8.38	18.50	0	0.50	0.00	37.51	0.00
10yr3d	NSLRWCD C37	BASE	301.01	8.38	18.50	0	0.50	0.00	37.52	0.00
10yr3d	NSLRWCD C37	BASE	301.26	8.38	18.50	0	0.49	0.00	37.53	0.00
10yr3d	NSLRWCD C37	BASE	301.51	8.37	18.50	0	0.49	0.00	37.54	0.00
10yr3d	NSLRWCD C37	BASE	301.76	8.37	18.50	0	0.49	0.00	37.55	0.00
10yr3d	NSLRWCD C37	BASE	302.01	8.37	18.50	0	0.49	0.00	37.56	0.00
10yr3d	NSLRWCD C37	BASE	302.26	8.37	18.50	0	0.49	0.00	37.57	0.00
10yr3d	NSLRWCD C37	BASE	302.51	8.36	18.50	0	0.49	0.00	37.58	0.00
10yr3d	NSLRWCD C37	BASE	302.76	8.36	18.50	0	0.49	0.00	37.59	0.00
10yr3d	NSLRWCD C37	BASE	303.01	8.36	18.50	0	0.49	0.00	37.60	0.00
10yr3d	NSLRWCD C37	BASE	303.26	8.36	18.50	0	0.49	0.00	37.61	0.00
10yr3d	NSLRWCD C37	BASE	303.51	8.35	18.50	0	0.49	0.00	37.62	0.00
10yr3d	NSLRWCD C37	BASE	303.76	8.35	18.50	0	0.49	0.00	37.63	0.00
10yr3d	NSLRWCD C37	BASE	304.01	8.35	18.50	0	0.49	0.00	37.64	0.00
10yr3d	NSLRWCD C37	BASE	304.26	8.35	18.50	0	0.49	0.00	37.65	0.00
10yr3d	NSLRWCD C37	BASE	304.51	8.34	18.50	0	0.49	0.00	37.66	0.00
10yr3d	NSLRWCD C37	BASE	304.76	8.34	18.50	0	0.49	0.00	37.67	0.00
10yr3d	NSLRWCD C37	BASE	305.01	8.34	18.50	0	0.49	0.00	37.68	0.00
10yr3d	NSLRWCD C37	BASE	305.26	8.34	18.50	0	0.49	0.00	37.69	0.00
10yr3d	NSLRWCD C37	BASE	305.51	8.33	18.50	0	0.49	0.00	37.70	0.00
10yr3d	NSLRWCD C37	BASE	305.76	8.33	18.50	0	0.49	0.00	37.71	0.00
10yr3d	NSLRWCD C37	BASE	306.01	8.33	18.50	0	0.49	0.00	37.72	0.00
10yr3d	NSLRWCD C37	BASE	306.26	8.32	18.50	0	0.49	0.00	37.73	0.00
10yr3d	NSLRWCD C37	BASE	306.51	8.32	18.50	0	0.49	0.00	37.74	0.00
10yr3d	NSLRWCD C37	BASE	306.76	8.32	18.50	0	0.49	0.00	37.75	0.00
10yr3d	NSLRWCD C37	BASE	307.01	8.32	18.50	0	0.49	0.00	37.76	0.00
10yr3d	NSLRWCD C37	BASE	307.26	8.31	18.50	0	0.49	0.00	37.77	0.00
10yr3d	NSLRWCD C37	BASE	307.51	8.31	18.50	0	0.49	0.00	37.78	0.00
10yr3d	NSLRWCD C37	BASE	307.76	8.31	18.50	0	0.49	0.00	37.79	0.00
10yr3d	NSLRWCD C37	BASE	308.01	8.31	18.50	0	0.49	0.00	37.80	0.00
10yr3d	NSLRWCD C37	BASE	308.26	8.30	18.50	0	0.49	0.00	37.81	0.00
10yr3d	NSLRWCD C37	BASE	308.51	8.30	18.50	0	0.49	0.00	37.82	0.00
10yr3d	NSLRWCD C37	BASE	308.76	8.30	18.50	0	0.49	0.00	37.83	0.00
10yr3d	NSLRWCD C37	BASE	309.01	8.30	18.50	0	0.49	0.00	37.84	0.00
10yr3d	NSLRWCD C37	BASE	309.26	8.29	18.50	0	0.49	0.00	37.85	0.00
10yr3d	NSLRWCD C37	BASE	309.51	8.29	18.50	0	0.49	0.00	37.86	0.00
10yr3d	NSLRWCD C37	BASE	309.76	8.29	18.50	0	0.49	0.00	37.87	0.00
10yr3d	NSLRWCD C37	BASE	310.01	8.29	18.50	0	0.49	0.00	37.88	0.00
10yr3d	NSLRWCD C37	BASE	310.26	8.28	18.50	0	0.49	0.00	37.89	0.00
10yr3d	NSLRWCD C37	BASE	310.51	8.28	18.50	0	0.49	0.00	37.90	0.00
10yr3d	NSLRWCD C37	BASE	310.76	8.28	18.50	0	0.49	0.00	37.91	0.00
10yr3d	NSLRWCD C37	BASE	311.01	8.28	18.50	0	0.48	0.00	37.92	0.00
10yr3d	NSLRWCD C37	BASE	311.26	8.27	18.50	0	0.48	0.00	37.93	0.00
10yr3d	NSLRWCD C37	BASE	311.51	8.27	18.50	0	0.48	0.00	37.94	0.00
10yr3d	NSLRWCD C37	BASE	311.76	8.27	18.50	0	0.48	0.00	37.95	0.00
10yr3d	NSLRWCD C37	BASE	312.01	8.27	18.50	0	0.48	0.00	37.96	0.00
10yr3d	NSLRWCD C37	BASE	312.26	8.26	18.50	0	0.48	0.00	37.97	0.00
10yr3d	NSLRWCD C37	BASE	312.51	8.26	18.50	0	0.48	0.00	37.98	0.00
10yr3d	NSLRWCD C37	BASE	312.76	8.26	18.50	0	0.48	0.00	37.99	0.00
10yr3d	NSLRWCD C37	BASE	313.01	8.26	18.50	0	0.48	0.00	38.00	0.00
10yr3d	NSLRWCD C37	BASE	313.26	8.25	18.50	0	0.48	0.00	38.01	0.00
10yr3d	NSLRWCD C37	BASE	313.51	8.25	18.50	0	0.48	0.00	38.02	0.00
10yr3d	NSLRWCD C37	BASE	313.76	8.25	18.50	0	0.48	0.00	38.03	0.00
10yr3d	NSLRWCD C37	BASE	314.01	8.25	18.50	0	0.48	0.00	38.04	0.00
10yr3d	NSLRWCD C37	BASE	314.26	8.24	18.50	0	0.48	0.00	38.05	0.00
10yr3d	NSLRWCD C37	BASE	314.51	8.24	18.50	0	0.48	0.00	38.06	0.00
10yr3d	NSLRWCD C37	BASE	314.76	8.24	18.50	0	0.48	0.00	38.07	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	315.01	8.24	18.50	0	0.48	0.00	38.08	0.00
10yr3d	NSLRWCD C37	BASE	315.26	8.23	18.50	0	0.48	0.00	38.09	0.00
10yr3d	NSLRWCD C37	BASE	315.51	8.23	18.50	0	0.48	0.00	38.10	0.00
10yr3d	NSLRWCD C37	BASE	315.76	8.23	18.50	0	0.48	0.00	38.11	0.00
10yr3d	NSLRWCD C37	BASE	316.01	8.23	18.50	0	0.48	0.00	38.12	0.00
10yr3d	NSLRWCD C37	BASE	316.26	8.22	18.50	0	0.48	0.00	38.13	0.00
10yr3d	NSLRWCD C37	BASE	316.51	8.22	18.50	0	0.48	0.00	38.14	0.00
10yr3d	NSLRWCD C37	BASE	316.76	8.22	18.50	0	0.48	0.00	38.15	0.00
10yr3d	NSLRWCD C37	BASE	317.01	8.22	18.50	0	0.48	0.00	38.16	0.00
10yr3d	NSLRWCD C37	BASE	317.26	8.21	18.50	0	0.48	0.00	38.17	0.00
10yr3d	NSLRWCD C37	BASE	317.51	8.21	18.50	0	0.48	0.00	38.18	0.00
10yr3d	NSLRWCD C37	BASE	317.76	8.21	18.50	0	0.48	0.00	38.19	0.00
10yr3d	NSLRWCD C37	BASE	318.01	8.21	18.50	0	0.48	0.00	38.20	0.00
10yr3d	NSLRWCD C37	BASE	318.26	8.20	18.50	0	0.48	0.00	38.21	0.00
10yr3d	NSLRWCD C37	BASE	318.51	8.20	18.50	0	0.48	0.00	38.22	0.00
10yr3d	NSLRWCD C37	BASE	318.76	8.20	18.50	0	0.48	0.00	38.23	0.00
10yr3d	NSLRWCD C37	BASE	319.01	8.20	18.50	0	0.48	0.00	38.24	0.00
10yr3d	NSLRWCD C37	BASE	319.26	8.19	18.50	0	0.48	0.00	38.25	0.00
10yr3d	NSLRWCD C37	BASE	319.51	8.19	18.50	0	0.47	0.00	38.26	0.00
10yr3d	NSLRWCD C37	BASE	319.76	8.19	18.50	0	0.47	0.00	38.27	0.00
10yr3d	NSLRWCD C37	BASE	320.01	8.19	18.50	0	0.47	0.00	38.28	0.00
10yr3d	NSLRWCD C37	BASE	320.26	8.18	18.50	0	0.47	0.00	38.29	0.00
10yr3d	NSLRWCD C37	BASE	320.51	8.18	18.50	0	0.47	0.00	38.30	0.00
10yr3d	NSLRWCD C37	BASE	320.76	8.18	18.50	0	0.47	0.00	38.31	0.00
10yr3d	NSLRWCD C37	BASE	321.01	8.18	18.50	0	0.47	0.00	38.32	0.00
10yr3d	NSLRWCD C37	BASE	321.26	8.17	18.50	0	0.47	0.00	38.33	0.00
10yr3d	NSLRWCD C37	BASE	321.51	8.17	18.50	0	0.47	0.00	38.34	0.00
10yr3d	NSLRWCD C37	BASE	321.76	8.17	18.50	0	0.47	0.00	38.35	0.00
10yr3d	NSLRWCD C37	BASE	322.01	8.17	18.50	0	0.47	0.00	38.36	0.00
10yr3d	NSLRWCD C37	BASE	322.26	8.16	18.50	0	0.47	0.00	38.37	0.00
10yr3d	NSLRWCD C37	BASE	322.51	8.16	18.50	0	0.47	0.00	38.38	0.00
10yr3d	NSLRWCD C37	BASE	322.76	8.16	18.50	0	0.47	0.00	38.39	0.00
10yr3d	NSLRWCD C37	BASE	323.01	8.16	18.50	0	0.47	0.00	38.40	0.00
10yr3d	NSLRWCD C37	BASE	323.26	8.15	18.50	0	0.47	0.00	38.41	0.00
10yr3d	NSLRWCD C37	BASE	323.51	8.15	18.50	0	0.47	0.00	38.42	0.00
10yr3d	NSLRWCD C37	BASE	323.76	8.15	18.50	0	0.47	0.00	38.43	0.00
10yr3d	NSLRWCD C37	BASE	324.01	8.14	18.50	0	0.47	0.00	38.44	0.00
10yr3d	NSLRWCD C37	BASE	324.26	8.14	18.50	0	0.47	0.00	38.45	0.00
10yr3d	NSLRWCD C37	BASE	324.51	8.14	18.50	0	0.47	0.00	38.46	0.00
10yr3d	NSLRWCD C37	BASE	324.76	8.14	18.50	0	0.47	0.00	38.47	0.00
10yr3d	NSLRWCD C37	BASE	325.01	8.13	18.50	0	0.47	0.00	38.48	0.00
10yr3d	NSLRWCD C37	BASE	325.26	8.13	18.50	0	0.47	0.00	38.49	0.00
10yr3d	NSLRWCD C37	BASE	325.51	8.13	18.50	0	0.47	0.00	38.50	0.00
10yr3d	NSLRWCD C37	BASE	325.76	8.13	18.50	0	0.47	0.00	38.50	0.00
10yr3d	NSLRWCD C37	BASE	326.01	8.12	18.50	0	0.47	0.00	38.51	0.00
10yr3d	NSLRWCD C37	BASE	326.26	8.12	18.50	0	0.47	0.00	38.52	0.00
10yr3d	NSLRWCD C37	BASE	326.51	8.12	18.50	0	0.47	0.00	38.53	0.00
10yr3d	NSLRWCD C37	BASE	326.76	8.12	18.50	0	0.47	0.00	38.54	0.00
10yr3d	NSLRWCD C37	BASE	327.01	8.11	18.50	0	0.46	0.00	38.55	0.00
10yr3d	NSLRWCD C37	BASE	327.26	8.11	18.50	0	0.46	0.00	38.56	0.00
10yr3d	NSLRWCD C37	BASE	327.51	8.11	18.50	0	0.46	0.00	38.57	0.00
10yr3d	NSLRWCD C37	BASE	327.76	8.11	18.50	0	0.46	0.00	38.58	0.00
10yr3d	NSLRWCD C37	BASE	328.01	8.10	18.50	0	0.46	0.00	38.59	0.00
10yr3d	NSLRWCD C37	BASE	328.26	8.10	18.50	0	0.46	0.00	38.60	0.00
10yr3d	NSLRWCD C37	BASE	328.51	8.10	18.50	0	0.46	0.00	38.61	0.00
10yr3d	NSLRWCD C37	BASE	328.76	8.10	18.50	0	0.46	0.00	38.62	0.00
10yr3d	NSLRWCD C37	BASE	329.01	8.09	18.50	0	0.46	0.00	38.63	0.00
10yr3d	NSLRWCD C37	BASE	329.26	8.09	18.50	0	0.46	0.00	38.64	0.00
10yr3d	NSLRWCD C37	BASE	329.51	8.09	18.50	0	0.46	0.00	38.65	0.00
10yr3d	NSLRWCD C37	BASE	329.76	8.09	18.50	0	0.46	0.00	38.66	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	330.01	8.08	18.50	0	0.46	0.00	38.67	0.00
10yr3d	NSLRWCD C37	BASE	330.26	8.08	18.50	0	0.46	0.00	38.68	0.00
10yr3d	NSLRWCD C37	BASE	330.51	8.08	18.50	0	0.46	0.00	38.69	0.00
10yr3d	NSLRWCD C37	BASE	330.76	8.08	18.50	0	0.46	0.00	38.70	0.00
10yr3d	NSLRWCD C37	BASE	331.01	8.07	18.50	0	0.46	0.00	38.71	0.00
10yr3d	NSLRWCD C37	BASE	331.26	8.07	18.50	0	0.46	0.00	38.72	0.00
10yr3d	NSLRWCD C37	BASE	331.51	8.07	18.50	0	0.46	0.00	38.72	0.00
10yr3d	NSLRWCD C37	BASE	331.76	8.07	18.50	0	0.46	0.00	38.73	0.00
10yr3d	NSLRWCD C37	BASE	332.01	8.06	18.50	0	0.46	0.00	38.74	0.00
10yr3d	NSLRWCD C37	BASE	332.26	8.06	18.50	0	0.46	0.00	38.75	0.00
10yr3d	NSLRWCD C37	BASE	332.51	8.06	18.50	0	0.46	0.00	38.76	0.00
10yr3d	NSLRWCD C37	BASE	332.76	8.06	18.50	0	0.46	0.00	38.77	0.00
10yr3d	NSLRWCD C37	BASE	333.01	8.05	18.50	0	0.46	0.00	38.78	0.00
10yr3d	NSLRWCD C37	BASE	333.26	8.05	18.50	0	0.46	0.00	38.79	0.00
10yr3d	NSLRWCD C37	BASE	333.51	8.05	18.50	0	0.45	0.00	38.80	0.00
10yr3d	NSLRWCD C37	BASE	333.76	8.05	18.50	0	0.45	0.00	38.81	0.00
10yr3d	NSLRWCD C37	BASE	334.01	8.04	18.50	0	0.45	0.00	38.82	0.00
10yr3d	NSLRWCD C37	BASE	334.26	8.04	18.50	0	0.45	0.00	38.83	0.00
10yr3d	NSLRWCD C37	BASE	334.51	8.04	18.50	0	0.45	0.00	38.84	0.00
10yr3d	NSLRWCD C37	BASE	334.76	8.04	18.50	0	0.45	0.00	38.85	0.00
10yr3d	NSLRWCD C37	BASE	335.01	8.03	18.50	0	0.45	0.00	38.86	0.00
10yr3d	NSLRWCD C37	BASE	335.26	8.03	18.50	0	0.45	0.00	38.87	0.00
10yr3d	NSLRWCD C37	BASE	335.51	8.03	18.50	0	0.45	0.00	38.87	0.00
10yr3d	NSLRWCD C37	BASE	335.76	8.03	18.50	0	0.45	0.00	38.88	0.00
10yr3d	NSLRWCD C37	BASE	336.01	8.02	18.50	0	0.45	0.00	38.89	0.00
10yr3d	NSLRWCD C37	BASE	336.26	8.02	18.50	0	0.45	0.00	38.90	0.00
10yr3d	NSLRWCD C37	BASE	336.51	8.02	18.50	0	0.45	0.00	38.91	0.00
10yr3d	NSLRWCD C37	BASE	336.76	8.02	18.50	0	0.45	0.00	38.92	0.00
10yr3d	NSLRWCD C37	BASE	337.01	8.01	18.50	0	0.45	0.00	38.93	0.00
10yr3d	NSLRWCD C37	BASE	337.26	8.01	18.50	0	0.45	0.00	38.94	0.00
10yr3d	NSLRWCD C37	BASE	337.51	8.01	18.50	0	0.45	0.00	38.95	0.00
10yr3d	NSLRWCD C37	BASE	337.76	8.01	18.50	0	0.45	0.00	38.96	0.00
10yr3d	NSLRWCD C37	BASE	338.01	8.00	18.50	0	0.45	0.00	38.97	0.00
10yr3d	NSLRWCD C37	BASE	338.26	8.00	18.50	0	0.45	0.00	38.98	0.00
10yr3d	NSLRWCD C37	BASE	338.51	8.00	18.50	0	0.45	0.00	38.99	0.00
10yr3d	NSLRWCD C37	BASE	338.76	8.00	18.50	0	0.45	0.00	39.00	0.00
10yr3d	NSLRWCD C37	BASE	339.01	7.99	18.50	0	0.45	0.00	39.00	0.00
10yr3d	NSLRWCD C37	BASE	339.26	7.99	18.50	0	0.45	0.00	39.01	0.00
10yr3d	NSLRWCD C37	BASE	339.51	7.99	18.50	0	0.45	0.00	39.02	0.00
10yr3d	NSLRWCD C37	BASE	339.76	7.99	18.50	0	0.44	0.00	39.03	0.00
10yr3d	NSLRWCD C37	BASE	340.01	7.98	18.50	0	0.44	0.00	39.04	0.00
10yr3d	NSLRWCD C37	BASE	340.26	7.98	18.50	0	0.44	0.00	39.05	0.00
10yr3d	NSLRWCD C37	BASE	340.51	7.98	18.50	0	0.44	0.00	39.06	0.00
10yr3d	NSLRWCD C37	BASE	340.76	7.98	18.50	0	0.44	0.00	39.07	0.00
10yr3d	NSLRWCD C37	BASE	341.01	7.97	18.50	0	0.44	0.00	39.08	0.00
10yr3d	NSLRWCD C37	BASE	341.26	7.97	18.50	0	0.44	0.00	39.09	0.00
10yr3d	NSLRWCD C37	BASE	341.51	7.97	18.50	0	0.44	0.00	39.10	0.00
10yr3d	NSLRWCD C37	BASE	341.76	7.96	18.50	0	0.44	0.00	39.11	0.00
10yr3d	NSLRWCD C37	BASE	342.01	7.96	18.50	0	0.44	0.00	39.11	0.00
10yr3d	NSLRWCD C37	BASE	342.26	7.96	18.50	0	0.44	0.00	39.12	0.00
10yr3d	NSLRWCD C37	BASE	342.51	7.96	18.50	0	0.44	0.00	39.13	0.00
10yr3d	NSLRWCD C37	BASE	342.76	7.95	18.50	0	0.44	0.00	39.14	0.00
10yr3d	NSLRWCD C37	BASE	343.01	7.95	18.50	0	0.44	0.00	39.15	0.00
10yr3d	NSLRWCD C37	BASE	343.26	7.95	18.50	0	0.44	0.00	39.16	0.00
10yr3d	NSLRWCD C37	BASE	343.51	7.95	18.50	0	0.44	0.00	39.17	0.00
10yr3d	NSLRWCD C37	BASE	343.76	7.94	18.50	0	0.44	0.00	39.18	0.00
10yr3d	NSLRWCD C37	BASE	344.01	7.94	18.50	0	0.44	0.00	39.19	0.00
10yr3d	NSLRWCD C37	BASE	344.26	7.94	18.50	0	0.44	0.00	39.20	0.00
10yr3d	NSLRWCD C37	BASE	344.51	7.94	18.50	0	0.44	0.00	39.21	0.00
10yr3d	NSLRWCD C37	BASE	344.76	7.93	18.50	0	0.44	0.00	39.21	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	345.01	7.93	18.50	0	0.44	0.00	39.22	0.00
10yr3d	NSLRWCD C37	BASE	345.26	7.93	18.50	0	0.44	0.00	39.23	0.00
10yr3d	NSLRWCD C37	BASE	345.51	7.93	18.50	0	0.43	0.00	39.24	0.00
10yr3d	NSLRWCD C37	BASE	345.76	7.92	18.50	0	0.43	0.00	39.25	0.00
10yr3d	NSLRWCD C37	BASE	346.01	7.92	18.50	0	0.43	0.00	39.26	0.00
10yr3d	NSLRWCD C37	BASE	346.26	7.92	18.50	0	0.43	0.00	39.27	0.00
10yr3d	NSLRWCD C37	BASE	346.51	7.92	18.50	0	0.43	0.00	39.28	0.00
10yr3d	NSLRWCD C37	BASE	346.76	7.91	18.50	0	0.43	0.00	39.29	0.00
10yr3d	NSLRWCD C37	BASE	347.01	7.91	18.50	0	0.43	0.00	39.30	0.00
10yr3d	NSLRWCD C37	BASE	347.26	7.91	18.50	0	0.43	0.00	39.30	0.00
10yr3d	NSLRWCD C37	BASE	347.51	7.91	18.50	0	0.43	0.00	39.31	0.00
10yr3d	NSLRWCD C37	BASE	347.76	7.90	18.50	0	0.43	0.00	39.32	0.00
10yr3d	NSLRWCD C37	BASE	348.01	7.90	18.50	0	0.43	0.00	39.33	0.00
10yr3d	NSLRWCD C37	BASE	348.26	7.90	18.50	0	0.43	0.00	39.34	0.00
10yr3d	NSLRWCD C37	BASE	348.51	7.90	18.50	0	0.43	0.00	39.35	0.00
10yr3d	NSLRWCD C37	BASE	348.76	7.89	18.50	0	0.43	0.00	39.36	0.00
10yr3d	NSLRWCD C37	BASE	349.01	7.89	18.50	0	0.43	0.00	39.37	0.00
10yr3d	NSLRWCD C37	BASE	349.26	7.89	18.50	0	0.43	0.00	39.38	0.00
10yr3d	NSLRWCD C37	BASE	349.51	7.89	18.50	0	0.43	0.00	39.38	0.00
10yr3d	NSLRWCD C37	BASE	349.76	7.88	18.50	0	0.43	0.00	39.39	0.00
10yr3d	NSLRWCD C37	BASE	350.01	7.88	18.50	0	0.43	0.00	39.40	0.00
10yr3d	NSLRWCD C37	BASE	350.26	7.88	18.50	0	0.43	0.00	39.41	0.00
10yr3d	NSLRWCD C37	BASE	350.51	7.88	18.50	0	0.43	0.00	39.42	0.00
10yr3d	NSLRWCD C37	BASE	350.76	7.87	18.50	0	0.42	0.00	39.43	0.00
10yr3d	NSLRWCD C37	BASE	351.01	7.87	18.50	0	0.42	0.00	39.44	0.00
10yr3d	NSLRWCD C37	BASE	351.26	7.87	18.50	0	0.42	0.00	39.45	0.00
10yr3d	NSLRWCD C37	BASE	351.51	7.87	18.50	0	0.42	0.00	39.45	0.00
10yr3d	NSLRWCD C37	BASE	351.76	7.86	18.50	0	0.42	0.00	39.46	0.00
10yr3d	NSLRWCD C37	BASE	352.01	7.86	18.50	0	0.42	0.00	39.47	0.00
10yr3d	NSLRWCD C37	BASE	352.26	7.86	18.50	0	0.42	0.00	39.48	0.00
10yr3d	NSLRWCD C37	BASE	352.51	7.86	18.50	0	0.42	0.00	39.49	0.00
10yr3d	NSLRWCD C37	BASE	352.76	7.85	18.50	0	0.42	0.00	39.50	0.00
10yr3d	NSLRWCD C37	BASE	353.01	7.85	18.50	0	0.42	0.00	39.51	0.00
10yr3d	NSLRWCD C37	BASE	353.26	7.85	18.50	0	0.42	0.00	39.52	0.00
10yr3d	NSLRWCD C37	BASE	353.51	7.85	18.50	0	0.42	0.00	39.52	0.00
10yr3d	NSLRWCD C37	BASE	353.76	7.84	18.50	0	0.42	0.00	39.53	0.00
10yr3d	NSLRWCD C37	BASE	354.01	7.84	18.50	0	0.42	0.00	39.54	0.00
10yr3d	NSLRWCD C37	BASE	354.26	7.84	18.50	0	0.42	0.00	39.55	0.00
10yr3d	NSLRWCD C37	BASE	354.51	7.84	18.50	0	0.42	0.00	39.56	0.00
10yr3d	NSLRWCD C37	BASE	354.76	7.83	18.50	0	0.42	0.00	39.57	0.00
10yr3d	NSLRWCD C37	BASE	355.01	7.83	18.50	0	0.42	0.00	39.58	0.00
10yr3d	NSLRWCD C37	BASE	355.26	7.83	18.50	0	0.42	0.00	39.58	0.00
10yr3d	NSLRWCD C37	BASE	355.51	7.83	18.50	0	0.42	0.00	39.59	0.00
10yr3d	NSLRWCD C37	BASE	355.76	7.82	18.50	0	0.41	0.00	39.60	0.00
10yr3d	NSLRWCD C37	BASE	356.01	7.82	18.50	0	0.41	0.00	39.61	0.00
10yr3d	NSLRWCD C37	BASE	356.26	7.82	18.50	0	0.41	0.00	39.62	0.00
10yr3d	NSLRWCD C37	BASE	356.51	7.82	18.50	0	0.41	0.00	39.63	0.00
10yr3d	NSLRWCD C37	BASE	356.76	7.81	18.50	0	0.41	0.00	39.64	0.00
10yr3d	NSLRWCD C37	BASE	357.01	7.81	18.50	0	0.41	0.00	39.64	0.00
10yr3d	NSLRWCD C37	BASE	357.26	7.81	18.50	0	0.41	0.00	39.65	0.00
10yr3d	NSLRWCD C37	BASE	357.51	7.81	18.50	0	0.41	0.00	39.66	0.00
10yr3d	NSLRWCD C37	BASE	357.76	7.80	18.50	0	0.41	0.00	39.67	0.00
10yr3d	NSLRWCD C37	BASE	358.01	7.80	18.50	0	0.41	0.00	39.68	0.00
10yr3d	NSLRWCD C37	BASE	358.26	7.80	18.50	0	0.41	0.00	39.69	0.00
10yr3d	NSLRWCD C37	BASE	358.51	7.80	18.50	0	0.41	0.00	39.70	0.00
10yr3d	NSLRWCD C37	BASE	358.76	7.79	18.50	0	0.41	0.00	39.70	0.00
10yr3d	NSLRWCD C37	BASE	359.01	7.79	18.50	0	0.41	0.00	39.71	0.00
10yr3d	NSLRWCD C37	BASE	359.26	7.79	18.50	0	0.41	0.00	39.72	0.00
10yr3d	NSLRWCD C37	BASE	359.51	7.79	18.50	0	0.41	0.00	39.73	0.00
10yr3d	NSLRWCD C37	BASE	359.76	7.78	18.50	0	0.41	0.00	39.74	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	360.01	7.78	18.50	0	0.41	0.00	39.75	0.00
10yr3d	NSLRWCD C37	BASE	360.01	7.78	18.50	0	0.41	0.00	39.75	0.00

Appendix D - ICPR Routing
Existing Off-Site Condition Model

ENGINEERING DESIGN & CONSTRUCTION, INC
CIVIL ENGINEERS & SURVEYORS SPECIALIZING IN LAND DEVELOPMENT

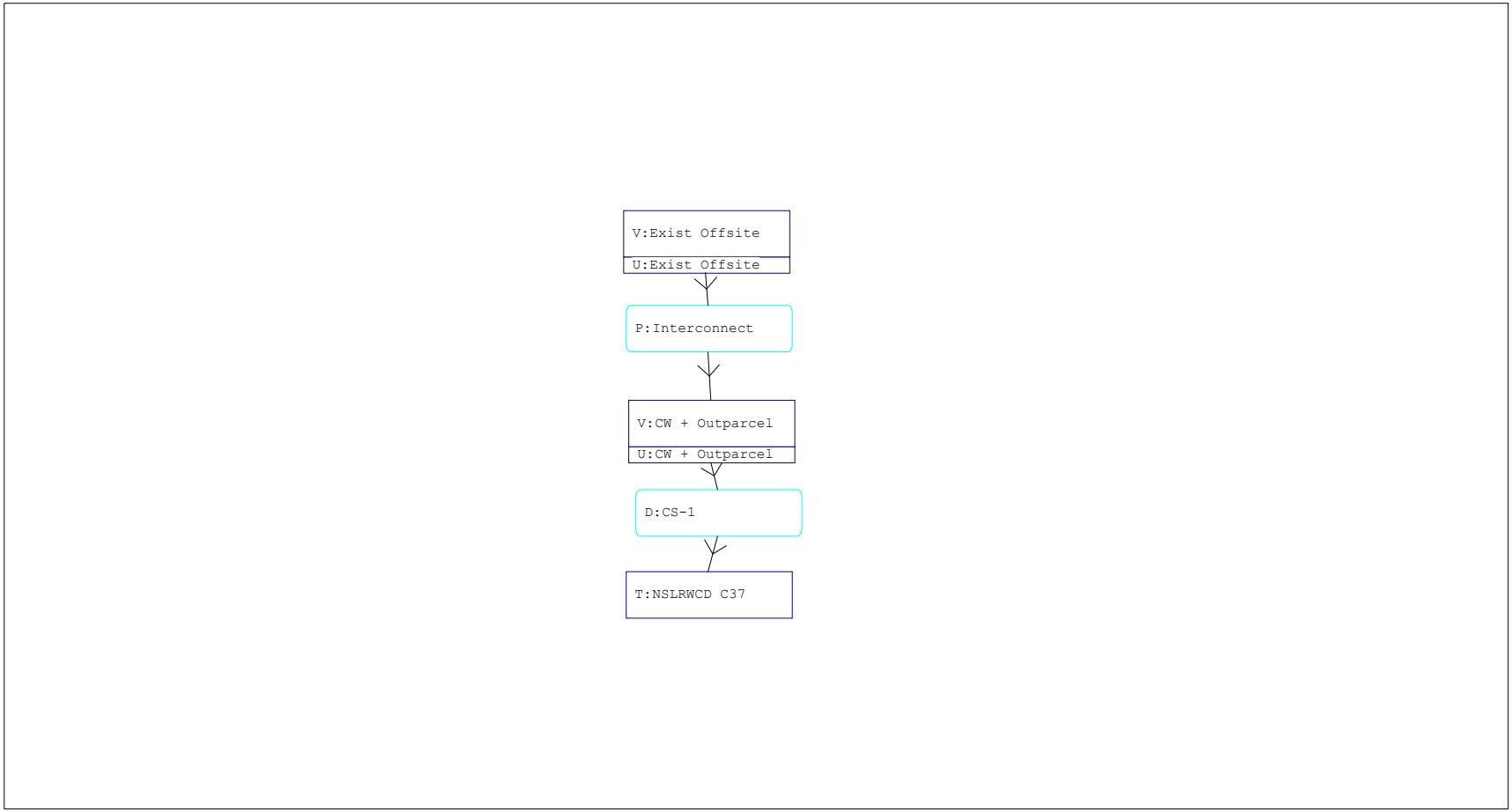
10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
772-462-2455

16-225 Camping World - Existing Off-Site Condition Storm Routing
Nodal Diagram

Nodes
A Stage/Area
V Stage/Volume
T Time/Stage
M Manhole

Basins
O Overland Flow
U SCS Unit CN
S SBUH CN
Y SCS Unit GA
Z SBUH GA

Links
P Pipe
W Weir
C Channel
D Drop Structure
B Bridge
R Rating Curve
H Breach
E Percolation
F Filter
X Exfil Trench



Interconnected Channel and Pond Routing Model (ICPR) ©2002 Streamline Technologies, Inc.

==========
==== Basins ====
==========

Name: CW + Outparcel Node: CW + Outparcel Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 28.970 Time Shift(hrs): 0.00
Curve Number: 94.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: Exist Offsite Node: Exist Offsite Status: Onsite
Group: Offsite Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 16.030 Time Shift(hrs): 0.00
Curve Number: 64.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

==========
==== Nodes ====
==========

Name: CW + Outparcel Base Flow(cfs): 0.000 Init Stage(ft): 10.000
Group: BASE Warn Stage(ft): 18.500
Type: Stage/Volume

Stage(ft)	Volume(af)
10.000	0.0000
10.500	1.6100
11.000	3.2600
11.500	4.9500
12.000	6.6700
12.500	8.4300
13.500	12.0700
14.500	16.0600
15.500	20.6900
16.500	27.4700
17.500	41.7200
18.500	64.4700

Name: Exist Offsite Base Flow(cfs): 0.000 Init Stage(ft): 10.000
Group: Offsite Warn Stage(ft): 18.500
Type: Stage/Volume

Stage(ft)	Volume(af)
10.000	0.0000
10.500	0.3300
11.000	0.6600
11.500	0.9900
12.000	1.3200
12.500	1.6500
13.500	2.3200
14.500	5.5400
15.500	13.8900
16.500	27.3500
17.500	43.3800
18.500	59.4100

Name: NSLRWCD C37 Base Flow(cfs): 0.000 Init Stage(ft): 7.780
Group: BASE Warn Stage(ft): 18.500
Type: Time/Stage

Time(hrs)	Stage(ft)
0.00	7.780

62.00	7.780
360.00	7.780

==========
==== Operating Tables ====
==========

Name: 10yr1d Group: 10yr1d
Type: Rating Curve
Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
24.00	1.00
120.00	0.00

Name: 10yr3d Group: 10yr3d
Type: Rating Curve
Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
62.00	1.41
360.00	0.00

Name: 25yr3d Group: 25yr3d
Type: Rating Curve
Function: Time vs. Discharge

Time(hrs)	Discharge(cfs)
0.00	0.00
62.00	1.58
360.00	0.00

==========
==== Pipes ====
==========

Name: Interconnect From Node: Exist Offsite Length(ft): 144.00
Group: BASE To Node: CW + Outparcel Count: 1
Friction Equation: Automatic
Solution Algorithm: Most Restrictive
Flow: Both
Entrance Loss Coef: 0.00
Exit Loss Coef: 1.00
Bend Loss Coef: 0.00
Outlet Ctrl Spec: Use dc or tw
Inlet Ctrl Spec: Use dc
Stabilizer Option: None

	UPSTREAM	DOWNSTREAM
Geometry:	Circular	Circular
Span(in):	36.00	36.00
Rise(in):	36.00	36.00
Invert(ft):	9.500	5.000
Manning's N:	0.012000	0.012000
Top Clip(in):	0.000	0.000
Bot Clip(in):	0.000	0.000

Upstream FHWA Inlet Edge Description:
Circular Concrete: Groove end projecting

Downstream FHWA Inlet Edge Description:
Circular Concrete: Groove end projecting

==========
==== Drop Structures ====
==========

Name: CS-1 From Node: CW + Outparcel Length(ft): 35.00
Group: Outfalls To Node: NSLRWCD C37 Count: 1

Friction Equation: Automatic
Solution Algorithm: Most Restrictive
Flow: Both
Entrance Loss Coef: 0.000
Exit Loss Coef: 1.000
Outlet Ctrl Spec: Use dc or tw
Inlet Ctrl Spec: Use dc
Solution Incs: 10

	UPSTREAM	DOWNSTREAM
Geometry:	Circular	Circular
Span(in):	36.00	36.00
Rise(in):	36.00	36.00
Invert(ft):	8.650	8.440
Manning's N:	0.012000	0.012000
Top Clip(in):	0.000	0.000
Bot Clip(in):	0.000	0.000

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Groove end projecting

*** Weir 1 of 4 for Drop Structure CS-1 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Circular	Orifice Disc Coef:	0.600
Span(in):	4.00	Invert(ft):	10.000
Rise(in):	4.00	Control Elev(ft):	10.000

*** Weir 2 of 4 for Drop Structure CS-1 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	8.00	Invert(ft):	11.600
Rise(in):	6.00	Control Elev(ft):	11.600

*** Weir 3 of 4 for Drop Structure CS-1 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	54.00	Invert(ft):	15.250
Rise(in):	6.00	Control Elev(ft):	15.250

*** Weir 4 of 4 for Drop Structure CS-1 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Horizontal	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	54.00	Invert(ft):	15.750
Rise(in):	18.00	Control Elev(ft):	15.750

==========
==== Hydrology Simulations ==========
==========

Name: 100yr3d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\100yr3d.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: Sfwmd72
Rainfall Amount(in): 12.23

Time(hrs)	Print Inc(min)
360.000	5.00

Name: 10yr1d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr1d.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: Scsiii
Rainfall Amount(in): 6.00

Time(hrs)	Print Inc(min)
360.000	5.00

Name: 10yr3d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr3d.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: Sfwmd72
Rainfall Amount(in): 8.50

Time(hrs) Print Inc(min)
--- ---
360.000 5.00

Name: 25yr3d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\25yr3d.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: Sfwmd72
Rainfall Amount(in): 9.50

Time(hrs) Print Inc(min)
--- ---
360.000 5.00

==========
==== Routing Simulations ==========
==========

Name: 100yr3d Hydrology Sim: 100yr3d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\100yr3d.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 360.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

Time(hrs) Print Inc(min)
--- ---
360.000 15.000

Group Run
--- ---
BASE Yes
Offsite Yes

Name: 10yr1d Hydrology Sim: 10yr1d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr1d.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 360.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: 10yr1d Boundary Flows:

Time(hrs) Print Inc(min)
--- ---
360.000 15.000

Group Run
--- ---
10yr1d Yes
BASE Yes
Offsite Yes
Outfalls Yes

Name: 10yr3d Hydrology Sim: 10yr3d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\10yr3d.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 360.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: 10yr3d Boundary Flows:

Time(hrs)	Print Inc(min)
360.000	15.000

Group	Run
10yr3d	Yes
BASE	Yes
Offsite	Yes
Outfalls	Yes

Name: 25yr3d Hydrology Sim: 25yr3d
Filename: Z:\EDC-Fort-Pierce\16-projects\16-225(CampingWorld)\Civil\SWM\ICPR3\25yr3d.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 360.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: 10yr3d Boundary Flows:

Time(hrs)	Print Inc(min)
360.000	15.000

Group	Run
25yr3d	Yes
BASE	Yes
Offsite	Yes
Outfalls	Yes

==========
==== Boundary Conditions ====
==========

Name: 10yr1d Node: NSLRWCD C37 Type: Stage

Time(hrs)	Stage(ft)
0.000	7.780
1.330	9.420
2.670	9.730
4.000	10.770
5.330	10.140
6.670	9.590
8.000	9.420
9.330	9.530
10.670	9.770
12.000	11.060
13.330	10.300
14.670	9.650
16.000	9.450
17.330	9.650
18.670	10.010
20.000	11.950
21.330	10.810
22.670	9.830
24.000	9.530
360.000	7.780

Name: 10yr3d Node: NSLRWCD C37 Type: Stage

Time(hrs)	Stage(ft)
0.000	7.780
4.000	10.580
8.000	10.950
12.000	12.060
16.000	11.360
20.000	10.760
24.000	10.580
28.000	10.700
32.000	10.960
36.000	12.390
40.000	11.540
44.000	10.830
48.000	10.610
52.000	10.830

56.000	11.230
60.000	13.370
64.000	12.110
68.000	11.020
72.000	10.700
360.000	7.780

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CW + Outparcel	BASE	100yr3d	72.88	15.57	18.50	0.0050	263581	60.00	134.38	0.00	0.00
CW + Outparcel	BASE	10yr1d	22.13	13.20	18.50	0.0050	163152	12.25	105.61	22.46	2.60
CW + Outparcel	BASE	10yr3d	68.48	14.45	18.50	0.0050	186591	60.00	102.60	72.00	3.39
CW + Outparcel	BASE	25yr3d	72.00	14.71	18.50	0.0050	200623	60.00	111.46	72.03	3.55
Exist Offsite	Offsite	100yr3d	73.03	15.57	18.50	0.0050	487057	60.00	68.72	33.42	5.55
Exist Offsite	Offsite	10yr1d	22.13	13.20	18.50	0.0050	68196	12.25	26.08	161.98	10.23
Exist Offsite	Offsite	10yr3d	68.52	14.45	18.50	0.0050	243084	60.00	40.99	246.24	11.36
Exist Offsite	Offsite	25yr3d	72.01	14.71	18.50	0.0050	299401	60.00	48.36	256.04	10.02
NSLRWCD C37	BASE	100yr3d	0.00	7.78	18.50	0.0000	0	0.00	0.00	0.00	0.00
NSLRWCD C37	BASE	10yr1d	20.00	11.94	18.50	0.0243	0	22.46	2.60	0.00	0.00
NSLRWCD C37	BASE	10yr3d	60.00	13.37	18.50	0.0117	0	72.00	3.39	0.00	0.00
NSLRWCD C37	BASE	25yr3d	60.00	13.37	18.50	0.0117	0	72.03	3.55	0.00	0.00

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	0.00	7.78	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	0.26	7.96	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	0.50	8.13	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	0.77	8.32	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	1.02	8.49	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	1.27	8.67	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	1.52	8.84	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	1.77	9.02	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	2.02	9.19	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	2.27	9.37	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	2.52	9.54	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	2.77	9.72	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	3.02	9.89	18.50	0	0.00	0.00	0.00	0.00
10yr3d	NSLRWCD C37	BASE	3.27	10.07	18.50	0	-0.01	0.00	-0.00	0.00
10yr3d	NSLRWCD C37	BASE	3.52	10.24	18.50	0	-0.10	0.00	-0.00	0.00
10yr3d	NSLRWCD C37	BASE	3.77	10.42	18.50	0	-0.21	0.00	-0.00	0.00
10yr3d	NSLRWCD C37	BASE	4.02	10.58	18.50	0	-0.27	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	4.27	10.60	18.50	0	-0.28	0.00	-0.01	0.00
10yr3d	NSLRWCD C37	BASE	4.52	10.63	18.50	0	-0.28	0.00	-0.02	0.00
10yr3d	NSLRWCD C37	BASE	4.77	10.65	18.50	0	-0.29	0.00	-0.03	0.00
10yr3d	NSLRWCD C37	BASE	5.02	10.67	18.50	0	-0.30	0.00	-0.03	0.00
10yr3d	NSLRWCD C37	BASE	5.27	10.70	18.50	0	-0.31	0.00	-0.04	0.00
10yr3d	NSLRWCD C37	BASE	5.52	10.72	18.50	0	-0.31	0.00	-0.05	0.00
10yr3d	NSLRWCD C37	BASE	5.77	10.74	18.50	0	-0.32	0.00	-0.05	0.00
10yr3d	NSLRWCD C37	BASE	6.02	10.77	18.50	0	-0.32	0.00	-0.06	0.00
10yr3d	NSLRWCD C37	BASE	6.27	10.79	18.50	0	-0.33	0.00	-0.07	0.00
10yr3d	NSLRWCD C37	BASE	6.52	10.81	18.50	0	-0.34	0.00	-0.07	0.00
10yr3d	NSLRWCD C37	BASE	6.77	10.84	18.50	0	-0.34	0.00	-0.08	0.00
10yr3d	NSLRWCD C37	BASE	7.02	10.86	18.50	0	-0.35	0.00	-0.09	0.00
10yr3d	NSLRWCD C37	BASE	7.27	10.88	18.50	0	-0.35	0.00	-0.09	0.00
10yr3d	NSLRWCD C37	BASE	7.52	10.91	18.50	0	-0.36	0.00	-0.10	0.00
10yr3d	NSLRWCD C37	BASE	7.77	10.93	18.50	0	-0.37	0.00	-0.11	0.00
10yr3d	NSLRWCD C37	BASE	8.02	10.95	18.50	0	-0.37	0.00	-0.12	0.00
10yr3d	NSLRWCD C37	BASE	8.27	11.02	18.50	0	-0.39	0.00	-0.12	0.00
10yr3d	NSLRWCD C37	BASE	8.52	11.09	18.50	0	-0.40	0.00	-0.13	0.00
10yr3d	NSLRWCD C37	BASE	8.77	11.16	18.50	0	-0.42	0.00	-0.14	0.00
10yr3d	NSLRWCD C37	BASE	9.02	11.23	18.50	0	-0.43	0.00	-0.15	0.00
10yr3d	NSLRWCD C37	BASE	9.27	11.30	18.50	0	-0.45	0.00	-0.16	0.00
10yr3d	NSLRWCD C37	BASE	9.52	11.37	18.50	0	-0.46	0.00	-0.17	0.00
10yr3d	NSLRWCD C37	BASE	9.77	11.44	18.50	0	-0.47	0.00	-0.18	0.00
10yr3d	NSLRWCD C37	BASE	10.02	11.51	18.50	0	-0.49	0.00	-0.19	0.00
10yr3d	NSLRWCD C37	BASE	10.27	11.58	18.50	0	-0.50	0.00	-0.20	0.00
10yr3d	NSLRWCD C37	BASE	10.52	11.65	18.50	0	-0.53	0.00	-0.21	0.00
10yr3d	NSLRWCD C37	BASE	10.77	11.72	18.50	0	-0.61	0.00	-0.22	0.00
10yr3d	NSLRWCD C37	BASE	11.02	11.79	18.50	0	-0.70	0.00	-0.23	0.00
10yr3d	NSLRWCD C37	BASE	11.27	11.86	18.50	0	-0.81	0.00	-0.25	0.00
10yr3d	NSLRWCD C37	BASE	11.52	11.93	18.50	0	-0.94	0.00	-0.27	0.00
10yr3d	NSLRWCD C37	BASE	11.77	12.00	18.50	0	-1.08	0.00	-0.29	0.00
10yr3d	NSLRWCD C37	BASE	12.02	12.06	18.50	0	-1.22	0.00	-0.31	0.00
10yr3d	NSLRWCD C37	BASE	12.27	12.01	18.50	0	-1.12	0.00	-0.34	0.00
10yr3d	NSLRWCD C37	BASE	12.52	11.97	18.50	0	-1.03	0.00	-0.36	0.00
10yr3d	NSLRWCD C37	BASE	12.77	11.93	18.50	0	-0.94	0.00	-0.38	0.00
10yr3d	NSLRWCD C37	BASE	13.02	11.88	18.50	0	-0.86	0.00	-0.40	0.00
10yr3d	NSLRWCD C37	BASE	13.27	11.84	18.50	0	-0.78	0.00	-0.41	0.00
10yr3d	NSLRWCD C37	BASE	13.52	11.79	18.50	0	-0.71	0.00	-0.43	0.00
10yr3d	NSLRWCD C37	BASE	13.77	11.75	18.50	0	-0.64	0.00	-0.44	0.00
10yr3d	NSLRWCD C37	BASE	14.02	11.71	18.50	0	-0.59	0.00	-0.46	0.00
10yr3d	NSLRWCD C37	BASE	14.27	11.66	18.50	0	-0.54	0.00	-0.47	0.00
10yr3d	NSLRWCD C37	BASE	14.52	11.62	18.50	0	-0.50	0.00	-0.48	0.00
10yr3d	NSLRWCD C37	BASE	14.77	11.58	18.50	0	-0.49	0.00	-0.49	0.00

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	15.02	11.53	18.50	0	-0.48	0.00	-0.50	0.00
10yr3d	NSLRWCD C37	BASE	15.27	11.49	18.50	0	-0.47	0.00	-0.51	0.00
10yr3d	NSLRWCD C37	BASE	15.52	11.44	18.50	0	-0.46	0.00	-0.52	0.00
10yr3d	NSLRWCD C37	BASE	15.77	11.40	18.50	0	-0.45	0.00	-0.53	0.00
10yr3d	NSLRWCD C37	BASE	16.02	11.36	18.50	0	-0.44	0.00	-0.54	0.00
10yr3d	NSLRWCD C37	BASE	16.27	11.32	18.50	0	-0.43	0.00	-0.55	0.00
10yr3d	NSLRWCD C37	BASE	16.52	11.28	18.50	0	-0.42	0.00	-0.55	0.00
10yr3d	NSLRWCD C37	BASE	16.77	11.25	18.50	0	-0.41	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	17.02	11.21	18.50	0	-0.40	0.00	-0.57	0.00
10yr3d	NSLRWCD C37	BASE	17.27	11.17	18.50	0	-0.39	0.00	-0.58	0.00
10yr3d	NSLRWCD C37	BASE	17.52	11.13	18.50	0	-0.38	0.00	-0.59	0.00
10yr3d	NSLRWCD C37	BASE	17.77	11.10	18.50	0	-0.37	0.00	-0.59	0.00
10yr3d	NSLRWCD C37	BASE	18.02	11.06	18.50	0	-0.36	0.00	-0.60	0.00
10yr3d	NSLRWCD C37	BASE	18.27	11.02	18.50	0	-0.35	0.00	-0.61	0.00
10yr3d	NSLRWCD C37	BASE	18.52	10.98	18.50	0	-0.34	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	18.77	10.95	18.50	0	-0.33	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	19.02	10.91	18.50	0	-0.32	0.00	-0.63	0.00
10yr3d	NSLRWCD C37	BASE	19.27	10.87	18.50	0	-0.30	0.00	-0.64	0.00
10yr3d	NSLRWCD C37	BASE	19.52	10.83	18.50	0	-0.29	0.00	-0.64	0.00
10yr3d	NSLRWCD C37	BASE	19.77	10.80	18.50	0	-0.28	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	20.02	10.76	18.50	0	-0.26	0.00	-0.65	0.00
10yr3d	NSLRWCD C37	BASE	20.27	10.75	18.50	0	-0.26	0.00	-0.66	0.00
10yr3d	NSLRWCD C37	BASE	20.52	10.74	18.50	0	-0.25	0.00	-0.67	0.00
10yr3d	NSLRWCD C37	BASE	20.77	10.73	18.50	0	-0.25	0.00	-0.67	0.00
10yr3d	NSLRWCD C37	BASE	21.02	10.71	18.50	0	-0.24	0.00	-0.68	0.00
10yr3d	NSLRWCD C37	BASE	21.27	10.70	18.50	0	-0.23	0.00	-0.68	0.00
10yr3d	NSLRWCD C37	BASE	21.52	10.69	18.50	0	-0.23	0.00	-0.69	0.00
10yr3d	NSLRWCD C37	BASE	21.77	10.68	18.50	0	-0.22	0.00	-0.69	0.00
10yr3d	NSLRWCD C37	BASE	22.02	10.67	18.50	0	-0.21	0.00	-0.69	0.00
10yr3d	NSLRWCD C37	BASE	22.27	10.66	18.50	0	-0.21	0.00	-0.70	0.00
10yr3d	NSLRWCD C37	BASE	22.52	10.65	18.50	0	-0.20	0.00	-0.70	0.00
10yr3d	NSLRWCD C37	BASE	22.77	10.64	18.50	0	-0.19	0.00	-0.71	0.00
10yr3d	NSLRWCD C37	BASE	23.02	10.62	18.50	0	-0.18	0.00	-0.71	0.00
10yr3d	NSLRWCD C37	BASE	23.27	10.61	18.50	0	-0.18	0.00	-0.71	0.00
10yr3d	NSLRWCD C37	BASE	23.52	10.60	18.50	0	-0.17	0.00	-0.72	0.00
10yr3d	NSLRWCD C37	BASE	23.77	10.59	18.50	0	-0.16	0.00	-0.72	0.00
10yr3d	NSLRWCD C37	BASE	24.02	10.58	18.50	0	-0.15	0.00	-0.72	0.00
10yr3d	NSLRWCD C37	BASE	24.27	10.59	18.50	0	-0.15	0.00	-0.73	0.00
10yr3d	NSLRWCD C37	BASE	24.52	10.60	18.50	0	-0.15	0.00	-0.73	0.00
10yr3d	NSLRWCD C37	BASE	24.77	10.60	18.50	0	-0.15	0.00	-0.73	0.00
10yr3d	NSLRWCD C37	BASE	25.02	10.61	18.50	0	-0.15	0.00	-0.74	0.00
10yr3d	NSLRWCD C37	BASE	25.27	10.62	18.50	0	-0.15	0.00	-0.74	0.00
10yr3d	NSLRWCD C37	BASE	25.52	10.63	18.50	0	-0.15	0.00	-0.74	0.00
10yr3d	NSLRWCD C37	BASE	25.77	10.63	18.50	0	-0.15	0.00	-0.75	0.00
10yr3d	NSLRWCD C37	BASE	26.02	10.64	18.50	0	-0.15	0.00	-0.75	0.00
10yr3d	NSLRWCD C37	BASE	26.27	10.65	18.50	0	-0.15	0.00	-0.75	0.00
10yr3d	NSLRWCD C37	BASE	26.52	10.66	18.50	0	-0.15	0.00	-0.76	0.00
10yr3d	NSLRWCD C37	BASE	26.77	10.66	18.50	0	-0.15	0.00	-0.76	0.00
10yr3d	NSLRWCD C37	BASE	27.02	10.67	18.50	0	-0.15	0.00	-0.76	0.00
10yr3d	NSLRWCD C37	BASE	27.27	10.68	18.50	0	-0.15	0.00	-0.77	0.00
10yr3d	NSLRWCD C37	BASE	27.52	10.69	18.50	0	-0.15	0.00	-0.77	0.00
10yr3d	NSLRWCD C37	BASE	27.77	10.69	18.50	0	-0.15	0.00	-0.77	0.00
10yr3d	NSLRWCD C37	BASE	28.02	10.70	18.50	0	-0.15	0.00	-0.77	0.00
10yr3d	NSLRWCD C37	BASE	28.27	10.72	18.50	0	-0.15	0.00	-0.78	0.00
10yr3d	NSLRWCD C37	BASE	28.52	10.73	18.50	0	-0.16	0.00	-0.78	0.00
10yr3d	NSLRWCD C37	BASE	28.77	10.75	18.50	0	-0.16	0.00	-0.78	0.00
10yr3d	NSLRWCD C37	BASE	29.02	10.77	18.50	0	-0.17	0.00	-0.79	0.00
10yr3d	NSLRWCD C37	BASE	29.27	10.78	18.50	0	-0.17	0.00	-0.79	0.00
10yr3d	NSLRWCD C37	BASE	29.52	10.80	18.50	0	-0.18	0.00	-0.79	0.00
10yr3d	NSLRWCD C37	BASE	29.77	10.81	18.50	0	-0.18	0.00	-0.80	0.00

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	30.02	10.83	18.50	0	-0.18	0.00	-0.80	0.00
10yr3d	NSLRWCD C37	BASE	30.27	10.85	18.50	0	-0.19	0.00	-0.81	0.00
10yr3d	NSLRWCD C37	BASE	30.52	10.86	18.50	0	-0.19	0.00	-0.81	0.00
10yr3d	NSLRWCD C37	BASE	30.77	10.88	18.50	0	-0.19	0.00	-0.81	0.00
10yr3d	NSLRWCD C37	BASE	31.02	10.90	18.50	0	-0.20	0.00	-0.82	0.00
10yr3d	NSLRWCD C37	BASE	31.27	10.91	18.50	0	-0.20	0.00	-0.82	0.00
10yr3d	NSLRWCD C37	BASE	31.52	10.93	18.50	0	-0.20	0.00	-0.83	0.00
10yr3d	NSLRWCD C37	BASE	31.77	10.94	18.50	0	-0.21	0.00	-0.83	0.00
10yr3d	NSLRWCD C37	BASE	32.02	10.97	18.50	0	-0.21	0.00	-0.83	0.00
10yr3d	NSLRWCD C37	BASE	32.27	11.06	18.50	0	-0.24	0.00	-0.84	0.00
10yr3d	NSLRWCD C37	BASE	32.52	11.14	18.50	0	-0.27	0.00	-0.84	0.00
10yr3d	NSLRWCD C37	BASE	32.77	11.23	18.50	0	-0.30	0.00	-0.85	0.00
10yr3d	NSLRWCD C37	BASE	33.02	11.32	18.50	0	-0.32	0.00	-0.86	0.00
10yr3d	NSLRWCD C37	BASE	33.27	11.41	18.50	0	-0.34	0.00	-0.86	0.00
10yr3d	NSLRWCD C37	BASE	33.52	11.50	18.50	0	-0.36	0.00	-0.87	0.00
10yr3d	NSLRWCD C37	BASE	33.77	11.59	18.50	0	-0.38	0.00	-0.88	0.00
10yr3d	NSLRWCD C37	BASE	34.02	11.68	18.50	0	-0.44	0.00	-0.89	0.00
10yr3d	NSLRWCD C37	BASE	34.27	11.77	18.50	0	-0.56	0.00	-0.90	0.00
10yr3d	NSLRWCD C37	BASE	34.52	11.86	18.50	0	-0.71	0.00	-0.91	0.00
10yr3d	NSLRWCD C37	BASE	34.77	11.95	18.50	0	-0.88	0.00	-0.93	0.00
10yr3d	NSLRWCD C37	BASE	35.02	12.04	18.50	0	-1.06	0.00	-0.95	0.00
10yr3d	NSLRWCD C37	BASE	35.27	12.13	18.50	0	-1.26	0.00	-0.97	0.00
10yr3d	NSLRWCD C37	BASE	35.52	12.22	18.50	0	-1.44	0.00	-1.00	0.00
10yr3d	NSLRWCD C37	BASE	35.77	12.31	18.50	0	-1.57	0.00	-1.03	0.00
10yr3d	NSLRWCD C37	BASE	36.02	12.39	18.50	0	-1.67	0.00	-1.06	0.00
10yr3d	NSLRWCD C37	BASE	36.27	12.33	18.50	0	-1.60	0.00	-1.10	0.00
10yr3d	NSLRWCD C37	BASE	36.52	12.28	18.50	0	-1.52	0.00	-1.13	0.00
10yr3d	NSLRWCD C37	BASE	36.77	12.23	18.50	0	-1.44	0.00	-1.16	0.00
10yr3d	NSLRWCD C37	BASE	37.02	12.17	18.50	0	-1.34	0.00	-1.19	0.00
10yr3d	NSLRWCD C37	BASE	37.27	12.12	18.50	0	-1.23	0.00	-1.22	0.00
10yr3d	NSLRWCD C37	BASE	37.52	12.07	18.50	0	-1.10	0.00	-1.24	0.00
10yr3d	NSLRWCD C37	BASE	37.77	12.01	18.50	0	-0.98	0.00	-1.26	0.00
10yr3d	NSLRWCD C37	BASE	38.02	11.96	18.50	0	-0.86	0.00	-1.28	0.00
10yr3d	NSLRWCD C37	BASE	38.27	11.91	18.50	0	-0.75	0.00	-1.30	0.00
10yr3d	NSLRWCD C37	BASE	38.52	11.86	18.50	0	-0.65	0.00	-1.31	0.00
10yr3d	NSLRWCD C37	BASE	38.77	11.80	18.50	0	-0.55	0.00	-1.32	0.00
10yr3d	NSLRWCD C37	BASE	39.02	11.75	18.50	0	-0.47	0.00	-1.33	0.00
10yr3d	NSLRWCD C37	BASE	39.27	11.70	18.50	0	-0.39	0.00	-1.34	0.00
10yr3d	NSLRWCD C37	BASE	39.52	11.64	18.50	0	-0.33	0.00	-1.35	0.00
10yr3d	NSLRWCD C37	BASE	39.77	11.59	18.50	0	-0.30	0.00	-1.36	0.00
10yr3d	NSLRWCD C37	BASE	40.02	11.54	18.50	0	-0.28	0.00	-1.36	0.00
10yr3d	NSLRWCD C37	BASE	40.27	11.49	18.50	0	-0.26	0.00	-1.37	0.00
10yr3d	NSLRWCD C37	BASE	40.52	11.45	18.50	0	-0.24	0.00	-1.37	0.00
10yr3d	NSLRWCD C37	BASE	40.77	11.40	18.50	0	-0.22	0.00	-1.38	0.00
10yr3d	NSLRWCD C37	BASE	41.02	11.36	18.50	0	-0.19	0.00	-1.38	0.00
10yr3d	NSLRWCD C37	BASE	41.27	11.32	18.50	0	-0.17	0.00	-1.39	0.00
10yr3d	NSLRWCD C37	BASE	41.52	11.27	18.50	0	-0.14	0.00	-1.39	0.00
10yr3d	NSLRWCD C37	BASE	41.77	11.23	18.50	0	-0.10	0.00	-1.39	0.00
10yr3d	NSLRWCD C37	BASE	42.02	11.18	18.50	0	-0.01	0.00	-1.39	0.00
10yr3d	NSLRWCD C37	BASE	42.27	11.14	18.50	0	0.10	0.00	-1.39	0.00
10yr3d	NSLRWCD C37	BASE	42.52	11.09	18.50	0	0.14	0.00	-1.39	0.00
10yr3d	NSLRWCD C37	BASE	42.77	11.05	18.50	0	0.17	0.00	-1.39	0.00
10yr3d	NSLRWCD C37	BASE	43.02	11.00	18.50	0	0.19	0.00	-1.38	0.00
10yr3d	NSLRWCD C37	BASE	43.27	10.96	18.50	0	0.21	0.00	-1.38	0.00
10yr3d	NSLRWCD C37	BASE	43.52	10.92	18.50	0	0.24	0.00	-1.37	0.00
10yr3d	NSLRWCD C37	BASE	43.77	10.87	18.50	0	0.25	0.00	-1.37	0.00
10yr3d	NSLRWCD C37	BASE	44.02	10.83	18.50	0	0.27	0.00	-1.36	0.00
10yr3d	NSLRWCD C37	BASE	44.27	10.82	18.50	0	0.28	0.00	-1.36	0.00
10yr3d	NSLRWCD C37	BASE	44.52	10.80	18.50	0	0.28	0.00	-1.35	0.00
10yr3d	NSLRWCD C37	BASE	44.77	10.79	18.50	0	0.29	0.00	-1.35	0.00

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	45.02	10.77	18.50	0	0.30	0.00	-1.34	0.00
10yr3d	NSLRWCD C37	BASE	45.27	10.76	18.50	0	0.30	0.00	-1.33	0.00
10yr3d	NSLRWCD C37	BASE	45.52	10.75	18.50	0	0.31	0.00	-1.33	0.00
10yr3d	NSLRWCD C37	BASE	45.77	10.73	18.50	0	0.32	0.00	-1.32	0.00
10yr3d	NSLRWCD C37	BASE	46.02	10.72	18.50	0	0.32	0.00	-1.31	0.00
10yr3d	NSLRWCD C37	BASE	46.27	10.71	18.50	0	0.33	0.00	-1.31	0.00
10yr3d	NSLRWCD C37	BASE	46.52	10.69	18.50	0	0.33	0.00	-1.30	0.00
10yr3d	NSLRWCD C37	BASE	46.77	10.68	18.50	0	0.34	0.00	-1.29	0.00
10yr3d	NSLRWCD C37	BASE	47.02	10.66	18.50	0	0.34	0.00	-1.29	0.00
10yr3d	NSLRWCD C37	BASE	47.27	10.65	18.50	0	0.35	0.00	-1.28	0.00
10yr3d	NSLRWCD C37	BASE	47.52	10.64	18.50	0	0.35	0.00	-1.27	0.00
10yr3d	NSLRWCD C37	BASE	47.77	10.62	18.50	0	0.36	0.00	-1.27	0.00
10yr3d	NSLRWCD C37	BASE	48.02	10.61	18.50	0	0.36	0.00	-1.26	0.00
10yr3d	NSLRWCD C37	BASE	48.27	10.62	18.50	0	0.36	0.00	-1.25	0.00
10yr3d	NSLRWCD C37	BASE	48.52	10.64	18.50	0	0.36	0.00	-1.24	0.00
10yr3d	NSLRWCD C37	BASE	48.77	10.65	18.50	0	0.36	0.00	-1.24	0.00
10yr3d	NSLRWCD C37	BASE	49.02	10.67	18.50	0	0.36	0.00	-1.23	0.00
10yr3d	NSLRWCD C37	BASE	49.27	10.68	18.50	0	0.36	0.00	-1.22	0.00
10yr3d	NSLRWCD C37	BASE	49.52	10.69	18.50	0	0.36	0.00	-1.21	0.00
10yr3d	NSLRWCD C37	BASE	49.77	10.71	18.50	0	0.36	0.00	-1.21	0.00
10yr3d	NSLRWCD C37	BASE	50.02	10.72	18.50	0	0.35	0.00	-1.20	0.00
10yr3d	NSLRWCD C37	BASE	50.27	10.73	18.50	0	0.35	0.00	-1.19	0.00
10yr3d	NSLRWCD C37	BASE	50.52	10.75	18.50	0	0.35	0.00	-1.18	0.00
10yr3d	NSLRWCD C37	BASE	50.77	10.76	18.50	0	0.35	0.00	-1.18	0.00
10yr3d	NSLRWCD C37	BASE	51.02	10.78	18.50	0	0.35	0.00	-1.17	0.00
10yr3d	NSLRWCD C37	BASE	51.27	10.79	18.50	0	0.35	0.00	-1.16	0.00
10yr3d	NSLRWCD C37	BASE	51.52	10.80	18.50	0	0.35	0.00	-1.15	0.00
10yr3d	NSLRWCD C37	BASE	51.77	10.82	18.50	0	0.35	0.00	-1.15	0.00
10yr3d	NSLRWCD C37	BASE	52.02	10.83	18.50	0	0.35	0.00	-1.14	0.00
10yr3d	NSLRWCD C37	BASE	52.27	10.86	18.50	0	0.35	0.00	-1.13	0.00
10yr3d	NSLRWCD C37	BASE	52.52	10.88	18.50	0	0.34	0.00	-1.13	0.00
10yr3d	NSLRWCD C37	BASE	52.77	10.91	18.50	0	0.34	0.00	-1.12	0.00
10yr3d	NSLRWCD C37	BASE	53.02	10.93	18.50	0	0.34	0.00	-1.11	0.00
10yr3d	NSLRWCD C37	BASE	53.27	10.96	18.50	0	0.34	0.00	-1.11	0.00
10yr3d	NSLRWCD C37	BASE	53.52	10.98	18.50	0	0.34	0.00	-1.10	0.00
10yr3d	NSLRWCD C37	BASE	53.77	11.01	18.50	0	0.35	0.00	-1.09	0.00
10yr3d	NSLRWCD C37	BASE	54.02	11.03	18.50	0	0.37	0.00	-1.08	0.00
10yr3d	NSLRWCD C37	BASE	54.27	11.06	18.50	0	0.38	0.00	-1.08	0.00
10yr3d	NSLRWCD C37	BASE	54.52	11.08	18.50	0	0.41	0.00	-1.07	0.00
10yr3d	NSLRWCD C37	BASE	54.77	11.11	18.50	0	0.44	0.00	-1.06	0.00
10yr3d	NSLRWCD C37	BASE	55.02	11.13	18.50	0	0.47	0.00	-1.05	0.00
10yr3d	NSLRWCD C37	BASE	55.27	11.16	18.50	0	0.50	0.00	-1.04	0.00
10yr3d	NSLRWCD C37	BASE	55.52	11.18	18.50	0	0.54	0.00	-1.03	0.00
10yr3d	NSLRWCD C37	BASE	55.77	11.21	18.50	0	0.59	0.00	-1.02	0.00
10yr3d	NSLRWCD C37	BASE	56.02	11.24	18.50	0	0.64	0.00	-1.00	0.00
10yr3d	NSLRWCD C37	BASE	56.27	11.37	18.50	0	0.66	0.00	-0.99	0.00
10yr3d	NSLRWCD C37	BASE	56.52	11.51	18.50	0	0.69	0.00	-0.98	0.00
10yr3d	NSLRWCD C37	BASE	56.77	11.64	18.50	0	0.71	0.00	-0.96	0.00
10yr3d	NSLRWCD C37	BASE	57.02	11.77	18.50	0	0.68	0.00	-0.95	0.00
10yr3d	NSLRWCD C37	BASE	57.27	11.91	18.50	0	0.60	0.00	-0.93	0.00
10yr3d	NSLRWCD C37	BASE	57.52	12.04	18.50	0	0.36	0.00	-0.93	0.00
10yr3d	NSLRWCD C37	BASE	57.77	12.17	18.50	0	-0.43	0.00	-0.93	0.00
10yr3d	NSLRWCD C37	BASE	58.02	12.31	18.50	0	-0.72	0.00	-0.94	0.00
10yr3d	NSLRWCD C37	BASE	58.27	12.44	18.50	0	-0.91	0.00	-0.95	0.00
10yr3d	NSLRWCD C37	BASE	58.52	12.58	18.50	0	-1.07	0.00	-0.98	0.00
10yr3d	NSLRWCD C37	BASE	58.77	12.71	18.50	0	-1.19	0.00	-1.00	0.00
10yr3d	NSLRWCD C37	BASE	59.01	12.84	18.50	0	-1.28	0.00	-1.02	0.00
10yr3d	NSLRWCD C37	BASE	59.25	12.97	18.50	0	-1.35	0.00	-1.05	0.00
10yr3d	NSLRWCD C37	BASE	59.51	13.11	18.50	0	-1.38	0.00	-1.08	0.00
10yr3d	NSLRWCD C37	BASE	59.75	13.24	18.50	0	-1.14	0.00	-1.10	0.00

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	60.00	13.37	18.50	0	0.53	0.00	-1.11	0.00
10yr3d	NSLRWCD C37	BASE	60.25	13.29	18.50	0	1.50	0.00	-1.09	0.00
10yr3d	NSLRWCD C37	BASE	60.50	13.21	18.50	0	1.82	0.00	-1.05	0.00
10yr3d	NSLRWCD C37	BASE	60.76	13.13	18.50	0	2.01	0.00	-1.01	0.00
10yr3d	NSLRWCD C37	BASE	61.01	13.05	18.50	0	2.13	0.00	-0.97	0.00
10yr3d	NSLRWCD C37	BASE	61.25	12.98	18.50	0	2.23	0.00	-0.93	0.00
10yr3d	NSLRWCD C37	BASE	61.52	12.89	18.50	0	2.33	0.00	-0.88	0.00
10yr3d	NSLRWCD C37	BASE	61.77	12.81	18.50	0	2.42	0.00	-0.83	0.00
10yr3d	NSLRWCD C37	BASE	62.02	12.73	18.50	0	2.50	0.00	-0.78	0.00
10yr3d	NSLRWCD C37	BASE	62.27	12.66	18.50	0	2.58	0.00	-0.73	0.00
10yr3d	NSLRWCD C37	BASE	62.52	12.58	18.50	0	2.65	0.00	-0.67	0.00
10yr3d	NSLRWCD C37	BASE	62.77	12.50	18.50	0	2.72	0.00	-0.62	0.00
10yr3d	NSLRWCD C37	BASE	63.02	12.42	18.50	0	2.79	0.00	-0.56	0.00
10yr3d	NSLRWCD C37	BASE	63.27	12.34	18.50	0	2.85	0.00	-0.50	0.00
10yr3d	NSLRWCD C37	BASE	63.52	12.26	18.50	0	2.92	0.00	-0.44	0.00
10yr3d	NSLRWCD C37	BASE	63.77	12.18	18.50	0	2.98	0.00	-0.38	0.00
10yr3d	NSLRWCD C37	BASE	64.02	12.11	18.50	0	3.04	0.00	-0.32	0.00
10yr3d	NSLRWCD C37	BASE	64.27	12.04	18.50	0	3.09	0.00	-0.25	0.00
10yr3d	NSLRWCD C37	BASE	64.52	11.97	18.50	0	3.14	0.00	-0.19	0.00
10yr3d	NSLRWCD C37	BASE	64.77	11.90	18.50	0	3.18	0.00	-0.12	0.00
10yr3d	NSLRWCD C37	BASE	65.02	11.83	18.50	0	3.22	0.00	-0.06	0.00
10yr3d	NSLRWCD C37	BASE	65.27	11.77	18.50	0	3.23	0.00	0.01	0.00
10yr3d	NSLRWCD C37	BASE	65.52	11.70	18.50	0	3.25	0.00	0.08	0.00
10yr3d	NSLRWCD C37	BASE	65.77	11.63	18.50	0	3.26	0.00	0.14	0.00
10yr3d	NSLRWCD C37	BASE	66.02	11.56	18.50	0	3.28	0.00	0.21	0.00
10yr3d	NSLRWCD C37	BASE	66.27	11.49	18.50	0	3.29	0.00	0.28	0.00
10yr3d	NSLRWCD C37	BASE	66.52	11.42	18.50	0	3.30	0.00	0.35	0.00
10yr3d	NSLRWCD C37	BASE	66.77	11.36	18.50	0	3.31	0.00	0.41	0.00
10yr3d	NSLRWCD C37	BASE	67.02	11.29	18.50	0	3.32	0.00	0.48	0.00
10yr3d	NSLRWCD C37	BASE	67.27	11.22	18.50	0	3.33	0.00	0.55	0.00
10yr3d	NSLRWCD C37	BASE	67.52	11.15	18.50	0	3.34	0.00	0.62	0.00
10yr3d	NSLRWCD C37	BASE	67.77	11.08	18.50	0	3.35	0.00	0.69	0.00
10yr3d	NSLRWCD C37	BASE	68.02	11.02	18.50	0	3.36	0.00	0.76	0.00
10yr3d	NSLRWCD C37	BASE	68.27	11.00	18.50	0	3.36	0.00	0.83	0.00
10yr3d	NSLRWCD C37	BASE	68.52	10.98	18.50	0	3.36	0.00	0.90	0.00
10yr3d	NSLRWCD C37	BASE	68.77	10.96	18.50	0	3.36	0.00	0.97	0.00
10yr3d	NSLRWCD C37	BASE	69.02	10.94	18.50	0	3.37	0.00	1.04	0.00
10yr3d	NSLRWCD C37	BASE	69.27	10.92	18.50	0	3.37	0.00	1.11	0.00
10yr3d	NSLRWCD C37	BASE	69.52	10.90	18.50	0	3.37	0.00	1.18	0.00
10yr3d	NSLRWCD C37	BASE	69.77	10.88	18.50	0	3.37	0.00	1.24	0.00
10yr3d	NSLRWCD C37	BASE	70.02	10.86	18.50	0	3.37	0.00	1.31	0.00
10yr3d	NSLRWCD C37	BASE	70.27	10.84	18.50	0	3.37	0.00	1.38	0.00
10yr3d	NSLRWCD C37	BASE	70.52	10.82	18.50	0	3.38	0.00	1.45	0.00
10yr3d	NSLRWCD C37	BASE	70.77	10.80	18.50	0	3.38	0.00	1.52	0.00
10yr3d	NSLRWCD C37	BASE	71.02	10.78	18.50	0	3.38	0.00	1.59	0.00
10yr3d	NSLRWCD C37	BASE	71.27	10.76	18.50	0	3.38	0.00	1.66	0.00
10yr3d	NSLRWCD C37	BASE	71.52	10.74	18.50	0	3.38	0.00	1.73	0.00
10yr3d	NSLRWCD C37	BASE	71.77	10.72	18.50	0	3.39	0.00	1.80	0.00
10yr3d	NSLRWCD C37	BASE	72.02	10.70	18.50	0	3.39	0.00	1.87	0.00
10yr3d	NSLRWCD C37	BASE	72.27	10.70	18.50	0	3.39	0.00	1.94	0.00
10yr3d	NSLRWCD C37	BASE	72.52	10.69	18.50	0	3.38	0.00	2.01	0.00
10yr3d	NSLRWCD C37	BASE	72.77	10.69	18.50	0	3.38	0.00	2.08	0.00
10yr3d	NSLRWCD C37	BASE	73.02	10.69	18.50	0	3.37	0.00	2.15	0.00
10yr3d	NSLRWCD C37	BASE	73.27	10.69	18.50	0	3.37	0.00	2.22	0.00
10yr3d	NSLRWCD C37	BASE	73.52	10.68	18.50	0	3.37	0.00	2.29	0.00
10yr3d	NSLRWCD C37	BASE	73.77	10.68	18.50	0	3.36	0.00	2.36	0.00
10yr3d	NSLRWCD C37	BASE	74.02	10.68	18.50	0	3.36	0.00	2.43	0.00
10yr3d	NSLRWCD C37	BASE	74.27	10.68	18.50	0	3.35	0.00	2.50	0.00
10yr3d	NSLRWCD C37	BASE	74.52	10.67	18.50	0	3.35	0.00	2.57	0.00
10yr3d	NSLRWCD C37	BASE	74.77	10.67	18.50	0	3.35	0.00	2.64	0.00

Max Discharge Volume in 24-hrs = 6.49 acft
Less than Allowable 2" over 45 ac = 7.65 acft

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10yr3d	NSLRWCD C37	BASE	75.02	10.67	18.50	0	3.34	0.00	2.71	0.00
10yr3d	NSLRWCD C37	BASE	75.27	10.67	18.50	0	3.34	0.00	2.78	0.00
10yr3d	NSLRWCD C37	BASE	75.52	10.66	18.50	0	3.33	0.00	2.85	0.00
10yr3d	NSLRWCD C37	BASE	75.77	10.66	18.50	0	3.33	0.00	2.91	0.00
10yr3d	NSLRWCD C37	BASE	76.02	10.66	18.50	0	3.32	0.00	2.98	0.00
10yr3d	NSLRWCD C37	BASE	76.27	10.66	18.50	0	3.32	0.00	3.05	0.00
10yr3d	NSLRWCD C37	BASE	76.52	10.65	18.50	0	3.32	0.00	3.12	0.00
10yr3d	NSLRWCD C37	BASE	76.77	10.65	18.50	0	3.31	0.00	3.19	0.00
10yr3d	NSLRWCD C37	BASE	77.02	10.65	18.50	0	3.31	0.00	3.26	0.00
10yr3d	NSLRWCD C37	BASE	77.27	10.65	18.50	0	3.30	0.00	3.33	0.00
10yr3d	NSLRWCD C37	BASE	77.52	10.64	18.50	0	3.30	0.00	3.39	0.00
10yr3d	NSLRWCD C37	BASE	77.77	10.64	18.50	0	3.29	0.00	3.46	0.00
10yr3d	NSLRWCD C37	BASE	78.02	10.64	18.50	0	3.29	0.00	3.53	0.00
10yr3d	NSLRWCD C37	BASE	78.27	10.64	18.50	0	3.29	0.00	3.60	0.00
10yr3d	NSLRWCD C37	BASE	78.52	10.63	18.50	0	3.28	0.00	3.67	0.00
10yr3d	NSLRWCD C37	BASE	78.77	10.63	18.50	0	3.28	0.00	3.73	0.00
10yr3d	NSLRWCD C37	BASE	79.02	10.63	18.50	0	3.27	0.00	3.80	0.00
10yr3d	NSLRWCD C37	BASE	79.27	10.63	18.50	0	3.27	0.00	3.87	0.00
10yr3d	NSLRWCD C37	BASE	79.52	10.62	18.50	0	3.26	0.00	3.94	0.00
10yr3d	NSLRWCD C37	BASE	79.77	10.62	18.50	0	3.26	0.00	4.00	0.00
10yr3d	NSLRWCD C37	BASE	80.02	10.62	18.50	0	3.25	0.00	4.07	0.00
10yr3d	NSLRWCD C37	BASE	80.27	10.62	18.50	0	3.25	0.00	4.14	0.00
10yr3d	NSLRWCD C37	BASE	80.52	10.61	18.50	0	3.25	0.00	4.21	0.00
10yr3d	NSLRWCD C37	BASE	80.77	10.61	18.50	0	3.24	0.00	4.27	0.00
10yr3d	NSLRWCD C37	BASE	81.02	10.61	18.50	0	3.24	0.00	4.34	0.00
10yr3d	NSLRWCD C37	BASE	81.27	10.61	18.50	0	3.23	0.00	4.41	0.00
10yr3d	NSLRWCD C37	BASE	81.52	10.60	18.50	0	3.23	0.00	4.47	0.00
10yr3d	NSLRWCD C37	BASE	81.77	10.60	18.50	0	3.22	0.00	4.54	0.00
10yr3d	NSLRWCD C37	BASE	82.02	10.60	18.50	0	3.22	0.00	4.61	0.00
10yr3d	NSLRWCD C37	BASE	82.27	10.60	18.50	0	3.21	0.00	4.67	0.00
10yr3d	NSLRWCD C37	BASE	82.52	10.59	18.50	0	3.21	0.00	4.74	0.00
10yr3d	NSLRWCD C37	BASE	82.77	10.59	18.50	0	3.20	0.00	4.81	0.00
10yr3d	NSLRWCD C37	BASE	83.02	10.59	18.50	0	3.20	0.00	4.87	0.00
10yr3d	NSLRWCD C37	BASE	83.27	10.59	18.50	0	3.19	0.00	4.94	0.00
10yr3d	NSLRWCD C37	BASE	83.52	10.58	18.50	0	3.19	0.00	5.00	0.00
10yr3d	NSLRWCD C37	BASE	83.77	10.58	18.50	0	3.18	0.00	5.07	0.00
10yr3d	NSLRWCD C37	BASE	84.02	10.58	18.50	0	3.18	0.00	5.13	0.00
10yr3d	NSLRWCD C37	BASE	84.27	10.58	18.50	0	3.18	0.00	5.20	0.00
10yr3d	NSLRWCD C37	BASE	84.52	10.57	18.50	0	3.17	0.00	5.27	0.00
10yr3d	NSLRWCD C37	BASE	84.77	10.57	18.50	0	3.17	0.00	5.33	0.00
10yr3d	NSLRWCD C37	BASE	85.02	10.57	18.50	0	3.16	0.00	5.40	0.00
10yr3d	NSLRWCD C37	BASE	85.27	10.57	18.50	0	3.16	0.00	5.46	0.00
10yr3d	NSLRWCD C37	BASE	85.52	10.56	18.50	0	3.15	0.00	5.53	0.00
10yr3d	NSLRWCD C37	BASE	85.77	10.56	18.50	0	3.15	0.00	5.59	0.00
10yr3d	NSLRWCD C37	BASE	86.02	10.56	18.50	0	3.14	0.00	5.66	0.00
10yr3d	NSLRWCD C37	BASE	86.27	10.56	18.50	0	3.14	0.00	5.72	0.00
10yr3d	NSLRWCD C37	BASE	86.52	10.55	18.50	0	3.13	0.00	5.79	0.00
10yr3d	NSLRWCD C37	BASE	86.77	10.55	18.50	0	3.13	0.00	5.85	0.00
10yr3d	NSLRWCD C37	BASE	87.02	10.55	18.50	0	3.12	0.00	5.92	0.00
10yr3d	NSLRWCD C37	BASE	87.27	10.55	18.50	0	3.12	0.00	5.98	0.00
10yr3d	NSLRWCD C37	BASE	87.52	10.54	18.50	0	3.11	0.00	6.04	0.00
10yr3d	NSLRWCD C37	BASE	87.77	10.54	18.50	0	3.10	0.00	6.11	0.00
10yr3d	NSLRWCD C37	BASE	88.02	10.54	18.50	0	3.10	0.00	6.17	0.00
10yr3d	NSLRWCD C37	BASE	88.27	10.54	18.50	0	3.09	0.00	6.24	0.00
10yr3d	NSLRWCD C37	BASE	88.52	10.53	18.50	0	3.09	0.00	6.30	0.00
10yr3d	NSLRWCD C37	BASE	88.77	10.53	18.50	0	3.08	0.00	6.36	0.00
10yr3d	NSLRWCD C37	BASE	89.02	10.53	18.50	0	3.08	0.00	6.43	0.00
10yr3d	NSLRWCD C37	BASE	89.27	10.52	18.50	0	3.07	0.00	6.49	0.00
10yr3d	NSLRWCD C37	BASE	89.52	10.52	18.50	0	3.07	0.00	6.56	0.00
10yr3d	NSLRWCD C37	BASE	89.77	10.52	18.50	0	3.06	0.00	6.62	0.00

Max Discharge Volume in 24-hrs = 6.49 acft
Less than Allowable 2" over 45 ac = 7.65 acft

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	90.02	10.52	18.50	0	3.06	0.00	6.68	0.00
10yr3d	NSLRWCD C37	BASE	90.27	10.51	18.50	0	3.05	0.00	6.74	0.00
10yr3d	NSLRWCD C37	BASE	90.52	10.51	18.50	0	3.05	0.00	6.81	0.00
10yr3d	NSLRWCD C37	BASE	90.77	10.51	18.50	0	3.04	0.00	6.87	0.00
10yr3d	NSLRWCD C37	BASE	91.02	10.51	18.50	0	3.04	0.00	6.93	0.00
10yr3d	NSLRWCD C37	BASE	91.27	10.50	18.50	0	3.03	0.00	7.00	0.00
10yr3d	NSLRWCD C37	BASE	91.52	10.50	18.50	0	3.02	0.00	7.06	0.00
10yr3d	NSLRWCD C37	BASE	91.77	10.50	18.50	0	3.02	0.00	7.12	0.00
10yr3d	NSLRWCD C37	BASE	92.02	10.50	18.50	0	3.01	0.00	7.18	0.00
10yr3d	NSLRWCD C37	BASE	92.27	10.49	18.50	0	3.01	0.00	7.25	0.00
10yr3d	NSLRWCD C37	BASE	92.52	10.49	18.50	0	3.00	0.00	7.31	0.00
10yr3d	NSLRWCD C37	BASE	92.77	10.49	18.50	0	3.00	0.00	7.37	0.00
10yr3d	NSLRWCD C37	BASE	93.02	10.49	18.50	0	2.99	0.00	7.43	0.00
10yr3d	NSLRWCD C37	BASE	93.27	10.48	18.50	0	2.98	0.00	7.49	0.00
10yr3d	NSLRWCD C37	BASE	93.52	10.48	18.50	0	2.98	0.00	7.55	0.00
10yr3d	NSLRWCD C37	BASE	93.77	10.48	18.50	0	2.97	0.00	7.62	0.00
10yr3d	NSLRWCD C37	BASE	94.02	10.48	18.50	0	2.97	0.00	7.68	0.00
10yr3d	NSLRWCD C37	BASE	94.27	10.47	18.50	0	2.96	0.00	7.74	0.00
10yr3d	NSLRWCD C37	BASE	94.52	10.47	18.50	0	2.95	0.00	7.80	0.00
10yr3d	NSLRWCD C37	BASE	94.77	10.47	18.50	0	2.95	0.00	7.86	0.00
10yr3d	NSLRWCD C37	BASE	95.02	10.47	18.50	0	2.94	0.00	7.92	0.00
10yr3d	NSLRWCD C37	BASE	95.27	10.46	18.50	0	2.94	0.00	7.98	0.00
10yr3d	NSLRWCD C37	BASE	95.52	10.46	18.50	0	2.93	0.00	8.04	0.00
10yr3d	NSLRWCD C37	BASE	95.77	10.46	18.50	0	2.92	0.00	8.10	0.00
10yr3d	NSLRWCD C37	BASE	96.02	10.46	18.50	0	2.92	0.00	8.16	0.00
10yr3d	NSLRWCD C37	BASE	96.27	10.45	18.50	0	2.91	0.00	8.22	0.00
10yr3d	NSLRWCD C37	BASE	96.52	10.45	18.50	0	2.91	0.00	8.28	0.00
10yr3d	NSLRWCD C37	BASE	96.77	10.45	18.50	0	2.90	0.00	8.34	0.00
10yr3d	NSLRWCD C37	BASE	97.02	10.45	18.50	0	2.89	0.00	8.40	0.00
10yr3d	NSLRWCD C37	BASE	97.27	10.44	18.50	0	2.89	0.00	8.46	0.00
10yr3d	NSLRWCD C37	BASE	97.52	10.44	18.50	0	2.88	0.00	8.52	0.00
10yr3d	NSLRWCD C37	BASE	97.77	10.44	18.50	0	2.87	0.00	8.58	0.00
10yr3d	NSLRWCD C37	BASE	98.02	10.44	18.50	0	2.87	0.00	8.64	0.00
10yr3d	NSLRWCD C37	BASE	98.27	10.43	18.50	0	2.86	0.00	8.70	0.00
10yr3d	NSLRWCD C37	BASE	98.52	10.43	18.50	0	2.85	0.00	8.76	0.00
10yr3d	NSLRWCD C37	BASE	98.77	10.43	18.50	0	2.85	0.00	8.82	0.00
10yr3d	NSLRWCD C37	BASE	99.02	10.43	18.50	0	2.84	0.00	8.88	0.00
10yr3d	NSLRWCD C37	BASE	99.27	10.42	18.50	0	2.83	0.00	8.94	0.00
10yr3d	NSLRWCD C37	BASE	99.52	10.42	18.50	0	2.83	0.00	9.00	0.00
10yr3d	NSLRWCD C37	BASE	99.77	10.42	18.50	0	2.82	0.00	9.05	0.00
10yr3d	NSLRWCD C37	BASE	100.02	10.42	18.50	0	2.81	0.00	9.11	0.00
10yr3d	NSLRWCD C37	BASE	100.27	10.41	18.50	0	2.81	0.00	9.17	0.00
10yr3d	NSLRWCD C37	BASE	100.52	10.41	18.50	0	2.80	0.00	9.23	0.00
10yr3d	NSLRWCD C37	BASE	100.77	10.41	18.50	0	2.79	0.00	9.29	0.00
10yr3d	NSLRWCD C37	BASE	101.02	10.41	18.50	0	2.78	0.00	9.34	0.00
10yr3d	NSLRWCD C37	BASE	101.27	10.40	18.50	0	2.78	0.00	9.40	0.00
10yr3d	NSLRWCD C37	BASE	101.52	10.40	18.50	0	2.77	0.00	9.46	0.00
10yr3d	NSLRWCD C37	BASE	101.77	10.40	18.50	0	2.76	0.00	9.51	0.00
10yr3d	NSLRWCD C37	BASE	102.02	10.40	18.50	0	2.76	0.00	9.57	0.00
10yr3d	NSLRWCD C37	BASE	102.27	10.39	18.50	0	2.75	0.00	9.63	0.00
10yr3d	NSLRWCD C37	BASE	102.52	10.39	18.50	0	2.74	0.00	9.69	0.00
10yr3d	NSLRWCD C37	BASE	102.77	10.39	18.50	0	2.73	0.00	9.74	0.00
10yr3d	NSLRWCD C37	BASE	103.02	10.39	18.50	0	2.73	0.00	9.80	0.00
10yr3d	NSLRWCD C37	BASE	103.27	10.38	18.50	0	2.72	0.00	9.85	0.00
10yr3d	NSLRWCD C37	BASE	103.52	10.38	18.50	0	2.71	0.00	9.91	0.00
10yr3d	NSLRWCD C37	BASE	103.77	10.38	18.50	0	2.70	0.00	9.97	0.00
10yr3d	NSLRWCD C37	BASE	104.02	10.38	18.50	0	2.70	0.00	10.02	0.00
10yr3d	NSLRWCD C37	BASE	104.27	10.37	18.50	0	2.69	0.00	10.08	0.00
10yr3d	NSLRWCD C37	BASE	104.52	10.37	18.50	0	2.68	0.00	10.13	0.00
10yr3d	NSLRWCD C37	BASE	104.77	10.37	18.50	0	2.67	0.00	10.19	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	105.02	10.37	18.50	0	2.67	0.00	10.24	0.00
10yr3d	NSLRWCD C37	BASE	105.27	10.36	18.50	0	2.66	0.00	10.30	0.00
10yr3d	NSLRWCD C37	BASE	105.52	10.36	18.50	0	2.65	0.00	10.35	0.00
10yr3d	NSLRWCD C37	BASE	105.77	10.36	18.50	0	2.64	0.00	10.41	0.00
10yr3d	NSLRWCD C37	BASE	106.02	10.36	18.50	0	2.64	0.00	10.46	0.00
10yr3d	NSLRWCD C37	BASE	106.27	10.35	18.50	0	2.63	0.00	10.52	0.00
10yr3d	NSLRWCD C37	BASE	106.52	10.35	18.50	0	2.62	0.00	10.57	0.00
10yr3d	NSLRWCD C37	BASE	106.77	10.35	18.50	0	2.61	0.00	10.63	0.00
10yr3d	NSLRWCD C37	BASE	107.02	10.34	18.50	0	2.61	0.00	10.68	0.00
10yr3d	NSLRWCD C37	BASE	107.27	10.34	18.50	0	2.60	0.00	10.73	0.00
10yr3d	NSLRWCD C37	BASE	107.52	10.34	18.50	0	2.59	0.00	10.79	0.00
10yr3d	NSLRWCD C37	BASE	107.77	10.34	18.50	0	2.58	0.00	10.84	0.00
10yr3d	NSLRWCD C37	BASE	108.02	10.33	18.50	0	2.57	0.00	10.89	0.00
10yr3d	NSLRWCD C37	BASE	108.27	10.33	18.50	0	2.57	0.00	10.95	0.00
10yr3d	NSLRWCD C37	BASE	108.52	10.33	18.50	0	2.56	0.00	11.00	0.00
10yr3d	NSLRWCD C37	BASE	108.77	10.33	18.50	0	2.55	0.00	11.05	0.00
10yr3d	NSLRWCD C37	BASE	109.02	10.32	18.50	0	2.54	0.00	11.11	0.00
10yr3d	NSLRWCD C37	BASE	109.27	10.32	18.50	0	2.54	0.00	11.16	0.00
10yr3d	NSLRWCD C37	BASE	109.52	10.32	18.50	0	2.53	0.00	11.21	0.00
10yr3d	NSLRWCD C37	BASE	109.77	10.32	18.50	0	2.52	0.00	11.26	0.00
10yr3d	NSLRWCD C37	BASE	110.02	10.31	18.50	0	2.51	0.00	11.31	0.00
10yr3d	NSLRWCD C37	BASE	110.27	10.31	18.50	0	2.50	0.00	11.37	0.00
10yr3d	NSLRWCD C37	BASE	110.52	10.31	18.50	0	2.50	0.00	11.42	0.00
10yr3d	NSLRWCD C37	BASE	110.77	10.31	18.50	0	2.49	0.00	11.47	0.00
10yr3d	NSLRWCD C37	BASE	111.02	10.30	18.50	0	2.48	0.00	11.52	0.00
10yr3d	NSLRWCD C37	BASE	111.27	10.30	18.50	0	2.47	0.00	11.57	0.00
10yr3d	NSLRWCD C37	BASE	111.52	10.30	18.50	0	2.46	0.00	11.62	0.00
10yr3d	NSLRWCD C37	BASE	111.77	10.30	18.50	0	2.45	0.00	11.67	0.00
10yr3d	NSLRWCD C37	BASE	112.02	10.29	18.50	0	2.45	0.00	11.72	0.00
10yr3d	NSLRWCD C37	BASE	112.27	10.29	18.50	0	2.44	0.00	11.77	0.00
10yr3d	NSLRWCD C37	BASE	112.52	10.29	18.50	0	2.43	0.00	11.82	0.00
10yr3d	NSLRWCD C37	BASE	112.77	10.29	18.50	0	2.42	0.00	11.87	0.00
10yr3d	NSLRWCD C37	BASE	113.02	10.28	18.50	0	2.41	0.00	11.92	0.00
10yr3d	NSLRWCD C37	BASE	113.27	10.28	18.50	0	2.41	0.00	11.97	0.00
10yr3d	NSLRWCD C37	BASE	113.52	10.28	18.50	0	2.40	0.00	12.02	0.00
10yr3d	NSLRWCD C37	BASE	113.77	10.28	18.50	0	2.39	0.00	12.07	0.00
10yr3d	NSLRWCD C37	BASE	114.02	10.27	18.50	0	2.38	0.00	12.12	0.00
10yr3d	NSLRWCD C37	BASE	114.27	10.27	18.50	0	2.37	0.00	12.17	0.00
10yr3d	NSLRWCD C37	BASE	114.52	10.27	18.50	0	2.36	0.00	12.22	0.00
10yr3d	NSLRWCD C37	BASE	114.77	10.27	18.50	0	2.35	0.00	12.27	0.00
10yr3d	NSLRWCD C37	BASE	115.02	10.26	18.50	0	2.35	0.00	12.32	0.00
10yr3d	NSLRWCD C37	BASE	115.27	10.26	18.50	0	2.34	0.00	12.37	0.00
10yr3d	NSLRWCD C37	BASE	115.52	10.26	18.50	0	2.33	0.00	12.41	0.00
10yr3d	NSLRWCD C37	BASE	115.77	10.26	18.50	0	2.32	0.00	12.46	0.00
10yr3d	NSLRWCD C37	BASE	116.02	10.25	18.50	0	2.31	0.00	12.51	0.00
10yr3d	NSLRWCD C37	BASE	116.27	10.25	18.50	0	2.30	0.00	12.56	0.00
10yr3d	NSLRWCD C37	BASE	116.52	10.25	18.50	0	2.29	0.00	12.61	0.00
10yr3d	NSLRWCD C37	BASE	116.77	10.25	18.50	0	2.28	0.00	12.65	0.00
10yr3d	NSLRWCD C37	BASE	117.02	10.24	18.50	0	2.28	0.00	12.70	0.00
10yr3d	NSLRWCD C37	BASE	117.27	10.24	18.50	0	2.27	0.00	12.75	0.00
10yr3d	NSLRWCD C37	BASE	117.52	10.24	18.50	0	2.26	0.00	12.79	0.00
10yr3d	NSLRWCD C37	BASE	117.77	10.24	18.50	0	2.25	0.00	12.84	0.00
10yr3d	NSLRWCD C37	BASE	118.02	10.23	18.50	0	2.24	0.00	12.89	0.00
10yr3d	NSLRWCD C37	BASE	118.27	10.23	18.50	0	2.23	0.00	12.93	0.00
10yr3d	NSLRWCD C37	BASE	118.52	10.23	18.50	0	2.22	0.00	12.98	0.00
10yr3d	NSLRWCD C37	BASE	118.77	10.23	18.50	0	2.21	0.00	13.02	0.00
10yr3d	NSLRWCD C37	BASE	119.02	10.22	18.50	0	2.20	0.00	13.07	0.00
10yr3d	NSLRWCD C37	BASE	119.27	10.22	18.50	0	2.19	0.00	13.12	0.00
10yr3d	NSLRWCD C37	BASE	119.52	10.22	18.50	0	2.19	0.00	13.16	0.00
10yr3d	NSLRWCD C37	BASE	119.77	10.22	18.50	0	2.18	0.00	13.21	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	120.02	10.21	18.50	0	2.17	0.00	13.25	0.00
10yr3d	NSLRWCD C37	BASE	120.27	10.21	18.50	0	2.16	0.00	13.30	0.00
10yr3d	NSLRWCD C37	BASE	120.52	10.21	18.50	0	2.15	0.00	13.34	0.00
10yr3d	NSLRWCD C37	BASE	120.77	10.21	18.50	0	2.14	0.00	13.38	0.00
10yr3d	NSLRWCD C37	BASE	121.02	10.20	18.50	0	2.13	0.00	13.43	0.00
10yr3d	NSLRWCD C37	BASE	121.27	10.20	18.50	0	2.12	0.00	13.47	0.00
10yr3d	NSLRWCD C37	BASE	121.52	10.20	18.50	0	2.11	0.00	13.52	0.00
10yr3d	NSLRWCD C37	BASE	121.77	10.20	18.50	0	2.10	0.00	13.56	0.00
10yr3d	NSLRWCD C37	BASE	122.02	10.19	18.50	0	2.09	0.00	13.60	0.00
10yr3d	NSLRWCD C37	BASE	122.27	10.19	18.50	0	2.08	0.00	13.65	0.00
10yr3d	NSLRWCD C37	BASE	122.52	10.19	18.50	0	2.07	0.00	13.69	0.00
10yr3d	NSLRWCD C37	BASE	122.77	10.19	18.50	0	2.06	0.00	13.73	0.00
10yr3d	NSLRWCD C37	BASE	123.02	10.18	18.50	0	2.05	0.00	13.77	0.00
10yr3d	NSLRWCD C37	BASE	123.27	10.18	18.50	0	2.04	0.00	13.82	0.00
10yr3d	NSLRWCD C37	BASE	123.52	10.18	18.50	0	2.03	0.00	13.86	0.00
10yr3d	NSLRWCD C37	BASE	123.77	10.18	18.50	0	2.02	0.00	13.90	0.00
10yr3d	NSLRWCD C37	BASE	124.02	10.17	18.50	0	2.01	0.00	13.94	0.00
10yr3d	NSLRWCD C37	BASE	124.27	10.17	18.50	0	2.00	0.00	13.98	0.00
10yr3d	NSLRWCD C37	BASE	124.52	10.17	18.50	0	1.99	0.00	14.03	0.00
10yr3d	NSLRWCD C37	BASE	124.77	10.17	18.50	0	1.98	0.00	14.07	0.00
10yr3d	NSLRWCD C37	BASE	125.02	10.16	18.50	0	1.97	0.00	14.11	0.00
10yr3d	NSLRWCD C37	BASE	125.27	10.16	18.50	0	1.96	0.00	14.15	0.00
10yr3d	NSLRWCD C37	BASE	125.52	10.16	18.50	0	1.95	0.00	14.19	0.00
10yr3d	NSLRWCD C37	BASE	125.77	10.15	18.50	0	1.94	0.00	14.23	0.00
10yr3d	NSLRWCD C37	BASE	126.02	10.15	18.50	0	1.93	0.00	14.27	0.00
10yr3d	NSLRWCD C37	BASE	126.27	10.15	18.50	0	1.92	0.00	14.31	0.00
10yr3d	NSLRWCD C37	BASE	126.52	10.15	18.50	0	1.91	0.00	14.35	0.00
10yr3d	NSLRWCD C37	BASE	126.77	10.14	18.50	0	1.90	0.00	14.39	0.00
10yr3d	NSLRWCD C37	BASE	127.02	10.14	18.50	0	1.89	0.00	14.43	0.00
10yr3d	NSLRWCD C37	BASE	127.27	10.14	18.50	0	1.88	0.00	14.47	0.00
10yr3d	NSLRWCD C37	BASE	127.52	10.14	18.50	0	1.87	0.00	14.50	0.00
10yr3d	NSLRWCD C37	BASE	127.77	10.13	18.50	0	1.86	0.00	14.54	0.00
10yr3d	NSLRWCD C37	BASE	128.02	10.13	18.50	0	1.85	0.00	14.58	0.00
10yr3d	NSLRWCD C37	BASE	128.27	10.13	18.50	0	1.84	0.00	14.62	0.00
10yr3d	NSLRWCD C37	BASE	128.52	10.13	18.50	0	1.83	0.00	14.66	0.00
10yr3d	NSLRWCD C37	BASE	128.77	10.12	18.50	0	1.81	0.00	14.69	0.00
10yr3d	NSLRWCD C37	BASE	129.02	10.12	18.50	0	1.80	0.00	14.73	0.00
10yr3d	NSLRWCD C37	BASE	129.27	10.12	18.50	0	1.79	0.00	14.77	0.00
10yr3d	NSLRWCD C37	BASE	129.52	10.12	18.50	0	1.78	0.00	14.81	0.00
10yr3d	NSLRWCD C37	BASE	129.77	10.11	18.50	0	1.77	0.00	14.84	0.00
10yr3d	NSLRWCD C37	BASE	130.02	10.11	18.50	0	1.76	0.00	14.88	0.00
10yr3d	NSLRWCD C37	BASE	130.27	10.11	18.50	0	1.75	0.00	14.92	0.00
10yr3d	NSLRWCD C37	BASE	130.52	10.11	18.50	0	1.74	0.00	14.95	0.00
10yr3d	NSLRWCD C37	BASE	130.77	10.10	18.50	0	1.73	0.00	14.99	0.00
10yr3d	NSLRWCD C37	BASE	131.02	10.10	18.50	0	1.72	0.00	15.02	0.00
10yr3d	NSLRWCD C37	BASE	131.27	10.10	18.50	0	1.71	0.00	15.06	0.00
10yr3d	NSLRWCD C37	BASE	131.52	10.10	18.50	0	1.69	0.00	15.09	0.00
10yr3d	NSLRWCD C37	BASE	131.77	10.09	18.50	0	1.68	0.00	15.13	0.00
10yr3d	NSLRWCD C37	BASE	132.02	10.09	18.50	0	1.67	0.00	15.16	0.00
10yr3d	NSLRWCD C37	BASE	132.27	10.09	18.50	0	1.66	0.00	15.20	0.00
10yr3d	NSLRWCD C37	BASE	132.52	10.09	18.50	0	1.65	0.00	15.23	0.00
10yr3d	NSLRWCD C37	BASE	132.77	10.08	18.50	0	1.64	0.00	15.27	0.00
10yr3d	NSLRWCD C37	BASE	133.02	10.08	18.50	0	1.63	0.00	15.30	0.00
10yr3d	NSLRWCD C37	BASE	133.27	10.08	18.50	0	1.62	0.00	15.33	0.00
10yr3d	NSLRWCD C37	BASE	133.52	10.08	18.50	0	1.61	0.00	15.37	0.00
10yr3d	NSLRWCD C37	BASE	133.77	10.07	18.50	0	1.59	0.00	15.40	0.00
10yr3d	NSLRWCD C37	BASE	134.02	10.07	18.50	0	1.58	0.00	15.43	0.00
10yr3d	NSLRWCD C37	BASE	134.27	10.07	18.50	0	1.57	0.00	15.46	0.00
10yr3d	NSLRWCD C37	BASE	134.52	10.07	18.50	0	1.56	0.00	15.50	0.00
10yr3d	NSLRWCD C37	BASE	134.77	10.06	18.50	0	1.55	0.00	15.53	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	135.02	10.06	18.50	0	1.53	0.00	15.56	0.00
10yr3d	NSLRWCD C37	BASE	135.27	10.06	18.50	0	1.52	0.00	15.59	0.00
10yr3d	NSLRWCD C37	BASE	135.52	10.06	18.50	0	1.50	0.00	15.62	0.00
10yr3d	NSLRWCD C37	BASE	135.77	10.05	18.50	0	1.49	0.00	15.65	0.00
10yr3d	NSLRWCD C37	BASE	136.02	10.05	18.50	0	1.47	0.00	15.68	0.00
10yr3d	NSLRWCD C37	BASE	136.27	10.05	18.50	0	1.46	0.00	15.72	0.00
10yr3d	NSLRWCD C37	BASE	136.52	10.05	18.50	0	1.44	0.00	15.75	0.00
10yr3d	NSLRWCD C37	BASE	136.77	10.04	18.50	0	1.43	0.00	15.77	0.00
10yr3d	NSLRWCD C37	BASE	137.02	10.04	18.50	0	1.41	0.00	15.80	0.00
10yr3d	NSLRWCD C37	BASE	137.27	10.04	18.50	0	1.40	0.00	15.83	0.00
10yr3d	NSLRWCD C37	BASE	137.52	10.04	18.50	0	1.38	0.00	15.86	0.00
10yr3d	NSLRWCD C37	BASE	137.77	10.03	18.50	0	1.37	0.00	15.89	0.00
10yr3d	NSLRWCD C37	BASE	138.02	10.03	18.50	0	1.36	0.00	15.92	0.00
10yr3d	NSLRWCD C37	BASE	138.27	10.03	18.50	0	1.34	0.00	15.95	0.00
10yr3d	NSLRWCD C37	BASE	138.52	10.03	18.50	0	1.33	0.00	15.97	0.00
10yr3d	NSLRWCD C37	BASE	138.77	10.02	18.50	0	1.31	0.00	16.00	0.00
10yr3d	NSLRWCD C37	BASE	139.02	10.02	18.50	0	1.30	0.00	16.03	0.00
10yr3d	NSLRWCD C37	BASE	139.27	10.02	18.50	0	1.28	0.00	16.05	0.00
10yr3d	NSLRWCD C37	BASE	139.52	10.02	18.50	0	1.27	0.00	16.08	0.00
10yr3d	NSLRWCD C37	BASE	139.77	10.01	18.50	0	1.25	0.00	16.11	0.00
10yr3d	NSLRWCD C37	BASE	140.02	10.01	18.50	0	1.24	0.00	16.13	0.00
10yr3d	NSLRWCD C37	BASE	140.27	10.01	18.50	0	1.22	0.00	16.16	0.00
10yr3d	NSLRWCD C37	BASE	140.52	10.01	18.50	0	1.21	0.00	16.18	0.00
10yr3d	NSLRWCD C37	BASE	140.77	10.00	18.50	0	1.20	0.00	16.21	0.00
10yr3d	NSLRWCD C37	BASE	141.02	10.00	18.50	0	1.18	0.00	16.23	0.00
10yr3d	NSLRWCD C37	BASE	141.27	10.00	18.50	0	1.17	0.00	16.26	0.00
10yr3d	NSLRWCD C37	BASE	141.52	10.00	18.50	0	1.16	0.00	16.28	0.00
10yr3d	NSLRWCD C37	BASE	141.77	9.99	18.50	0	1.14	0.00	16.30	0.00
10yr3d	NSLRWCD C37	BASE	142.02	9.99	18.50	0	1.13	0.00	16.33	0.00
10yr3d	NSLRWCD C37	BASE	142.27	9.99	18.50	0	1.12	0.00	16.35	0.00
10yr3d	NSLRWCD C37	BASE	142.52	9.99	18.50	0	1.11	0.00	16.37	0.00
10yr3d	NSLRWCD C37	BASE	142.77	9.98	18.50	0	1.09	0.00	16.40	0.00
10yr3d	NSLRWCD C37	BASE	143.02	9.98	18.50	0	1.08	0.00	16.42	0.00
10yr3d	NSLRWCD C37	BASE	143.27	9.98	18.50	0	1.07	0.00	16.44	0.00
10yr3d	NSLRWCD C37	BASE	143.52	9.97	18.50	0	1.06	0.00	16.46	0.00
10yr3d	NSLRWCD C37	BASE	143.77	9.97	18.50	0	1.05	0.00	16.49	0.00
10yr3d	NSLRWCD C37	BASE	144.02	9.97	18.50	0	1.04	0.00	16.51	0.00
10yr3d	NSLRWCD C37	BASE	144.27	9.97	18.50	0	1.03	0.00	16.53	0.00
10yr3d	NSLRWCD C37	BASE	144.52	9.96	18.50	0	1.02	0.00	16.55	0.00
10yr3d	NSLRWCD C37	BASE	144.77	9.96	18.50	0	1.01	0.00	16.57	0.00
10yr3d	NSLRWCD C37	BASE	145.02	9.96	18.50	0	1.00	0.00	16.59	0.00
10yr3d	NSLRWCD C37	BASE	145.27	9.96	18.50	0	0.99	0.00	16.61	0.00
10yr3d	NSLRWCD C37	BASE	145.52	9.95	18.50	0	0.98	0.00	16.63	0.00
10yr3d	NSLRWCD C37	BASE	145.77	9.95	18.50	0	0.97	0.00	16.65	0.00
10yr3d	NSLRWCD C37	BASE	146.02	9.95	18.50	0	0.96	0.00	16.67	0.00
10yr3d	NSLRWCD C37	BASE	146.27	9.95	18.50	0	0.95	0.00	16.69	0.00
10yr3d	NSLRWCD C37	BASE	146.52	9.94	18.50	0	0.94	0.00	16.71	0.00
10yr3d	NSLRWCD C37	BASE	146.77	9.94	18.50	0	0.93	0.00	16.73	0.00
10yr3d	NSLRWCD C37	BASE	147.02	9.94	18.50	0	0.92	0.00	16.75	0.00
10yr3d	NSLRWCD C37	BASE	147.27	9.94	18.50	0	0.91	0.00	16.77	0.00
10yr3d	NSLRWCD C37	BASE	147.52	9.93	18.50	0	0.90	0.00	16.79	0.00
10yr3d	NSLRWCD C37	BASE	147.77	9.93	18.50	0	0.89	0.00	16.81	0.00
10yr3d	NSLRWCD C37	BASE	148.02	9.93	18.50	0	0.89	0.00	16.82	0.00
10yr3d	NSLRWCD C37	BASE	148.27	9.93	18.50	0	0.88	0.00	16.84	0.00
10yr3d	NSLRWCD C37	BASE	148.52	9.92	18.50	0	0.87	0.00	16.86	0.00
10yr3d	NSLRWCD C37	BASE	148.77	9.92	18.50	0	0.86	0.00	16.88	0.00
10yr3d	NSLRWCD C37	BASE	149.02	9.92	18.50	0	0.85	0.00	16.90	0.00
10yr3d	NSLRWCD C37	BASE	149.27	9.92	18.50	0	0.85	0.00	16.91	0.00
10yr3d	NSLRWCD C37	BASE	149.52	9.91	18.50	0	0.84	0.00	16.93	0.00
10yr3d	NSLRWCD C37	BASE	149.77	9.91	18.50	0	0.83	0.00	16.95	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	150.02	9.91	18.50	0	0.82	0.00	16.97	0.00
10yr3d	NSLRWCD C37	BASE	150.27	9.91	18.50	0	0.82	0.00	16.98	0.00
10yr3d	NSLRWCD C37	BASE	150.52	9.90	18.50	0	0.81	0.00	17.00	0.00
10yr3d	NSLRWCD C37	BASE	150.77	9.90	18.50	0	0.80	0.00	17.02	0.00
10yr3d	NSLRWCD C37	BASE	151.02	9.90	18.50	0	0.79	0.00	17.03	0.00
10yr3d	NSLRWCD C37	BASE	151.27	9.90	18.50	0	0.79	0.00	17.05	0.00
10yr3d	NSLRWCD C37	BASE	151.52	9.89	18.50	0	0.78	0.00	17.06	0.00
10yr3d	NSLRWCD C37	BASE	151.77	9.89	18.50	0	0.77	0.00	17.08	0.00
10yr3d	NSLRWCD C37	BASE	152.02	9.89	18.50	0	0.77	0.00	17.10	0.00
10yr3d	NSLRWCD C37	BASE	152.27	9.89	18.50	0	0.76	0.00	17.11	0.00
10yr3d	NSLRWCD C37	BASE	152.52	9.88	18.50	0	0.75	0.00	17.13	0.00
10yr3d	NSLRWCD C37	BASE	152.77	9.88	18.50	0	0.75	0.00	17.14	0.00
10yr3d	NSLRWCD C37	BASE	153.02	9.88	18.50	0	0.74	0.00	17.16	0.00
10yr3d	NSLRWCD C37	BASE	153.27	9.88	18.50	0	0.74	0.00	17.17	0.00
10yr3d	NSLRWCD C37	BASE	153.52	9.87	18.50	0	0.73	0.00	17.19	0.00
10yr3d	NSLRWCD C37	BASE	153.77	9.87	18.50	0	0.72	0.00	17.20	0.00
10yr3d	NSLRWCD C37	BASE	154.02	9.87	18.50	0	0.72	0.00	17.22	0.00
10yr3d	NSLRWCD C37	BASE	154.27	9.87	18.50	0	0.71	0.00	17.23	0.00
10yr3d	NSLRWCD C37	BASE	154.52	9.86	18.50	0	0.71	0.00	17.25	0.00
10yr3d	NSLRWCD C37	BASE	154.77	9.86	18.50	0	0.70	0.00	17.26	0.00
10yr3d	NSLRWCD C37	BASE	155.02	9.86	18.50	0	0.70	0.00	17.28	0.00
10yr3d	NSLRWCD C37	BASE	155.27	9.86	18.50	0	0.69	0.00	17.29	0.00
10yr3d	NSLRWCD C37	BASE	155.52	9.85	18.50	0	0.69	0.00	17.31	0.00
10yr3d	NSLRWCD C37	BASE	155.77	9.85	18.50	0	0.68	0.00	17.32	0.00
10yr3d	NSLRWCD C37	BASE	156.02	9.85	18.50	0	0.68	0.00	17.33	0.00
10yr3d	NSLRWCD C37	BASE	156.27	9.85	18.50	0	0.67	0.00	17.35	0.00
10yr3d	NSLRWCD C37	BASE	156.52	9.84	18.50	0	0.67	0.00	17.36	0.00
10yr3d	NSLRWCD C37	BASE	156.77	9.84	18.50	0	0.66	0.00	17.38	0.00
10yr3d	NSLRWCD C37	BASE	157.02	9.84	18.50	0	0.66	0.00	17.39	0.00
10yr3d	NSLRWCD C37	BASE	157.27	9.84	18.50	0	0.65	0.00	17.40	0.00
10yr3d	NSLRWCD C37	BASE	157.52	9.83	18.50	0	0.65	0.00	17.42	0.00
10yr3d	NSLRWCD C37	BASE	157.77	9.83	18.50	0	0.64	0.00	17.43	0.00
10yr3d	NSLRWCD C37	BASE	158.02	9.83	18.50	0	0.64	0.00	17.44	0.00
10yr3d	NSLRWCD C37	BASE	158.27	9.83	18.50	0	0.63	0.00	17.46	0.00
10yr3d	NSLRWCD C37	BASE	158.52	9.82	18.50	0	0.63	0.00	17.47	0.00
10yr3d	NSLRWCD C37	BASE	158.77	9.82	18.50	0	0.63	0.00	17.48	0.00
10yr3d	NSLRWCD C37	BASE	159.02	9.82	18.50	0	0.62	0.00	17.50	0.00
10yr3d	NSLRWCD C37	BASE	159.27	9.82	18.50	0	0.62	0.00	17.51	0.00
10yr3d	NSLRWCD C37	BASE	159.52	9.81	18.50	0	0.61	0.00	17.52	0.00
10yr3d	NSLRWCD C37	BASE	159.77	9.81	18.50	0	0.61	0.00	17.53	0.00
10yr3d	NSLRWCD C37	BASE	160.02	9.81	18.50	0	0.61	0.00	17.55	0.00
10yr3d	NSLRWCD C37	BASE	160.27	9.81	18.50	0	0.60	0.00	17.56	0.00
10yr3d	NSLRWCD C37	BASE	160.52	9.80	18.50	0	0.60	0.00	17.57	0.00
10yr3d	NSLRWCD C37	BASE	160.77	9.80	18.50	0	0.59	0.00	17.58	0.00
10yr3d	NSLRWCD C37	BASE	161.02	9.80	18.50	0	0.59	0.00	17.60	0.00
10yr3d	NSLRWCD C37	BASE	161.27	9.79	18.50	0	0.59	0.00	17.61	0.00
10yr3d	NSLRWCD C37	BASE	161.52	9.79	18.50	0	0.58	0.00	17.62	0.00
10yr3d	NSLRWCD C37	BASE	161.77	9.79	18.50	0	0.58	0.00	17.63	0.00
10yr3d	NSLRWCD C37	BASE	162.02	9.79	18.50	0	0.58	0.00	17.64	0.00
10yr3d	NSLRWCD C37	BASE	162.27	9.78	18.50	0	0.57	0.00	17.66	0.00
10yr3d	NSLRWCD C37	BASE	162.52	9.78	18.50	0	0.57	0.00	17.67	0.00
10yr3d	NSLRWCD C37	BASE	162.77	9.78	18.50	0	0.57	0.00	17.68	0.00
10yr3d	NSLRWCD C37	BASE	163.02	9.78	18.50	0	0.56	0.00	17.69	0.00
10yr3d	NSLRWCD C37	BASE	163.27	9.77	18.50	0	0.56	0.00	17.70	0.00
10yr3d	NSLRWCD C37	BASE	163.52	9.77	18.50	0	0.56	0.00	17.71	0.00
10yr3d	NSLRWCD C37	BASE	163.77	9.77	18.50	0	0.56	0.00	17.73	0.00
10yr3d	NSLRWCD C37	BASE	164.02	9.77	18.50	0	0.55	0.00	17.74	0.00
10yr3d	NSLRWCD C37	BASE	164.27	9.76	18.50	0	0.55	0.00	17.75	0.00
10yr3d	NSLRWCD C37	BASE	164.52	9.76	18.50	0	0.55	0.00	17.76	0.00
10yr3d	NSLRWCD C37	BASE	164.77	9.76	18.50	0	0.54	0.00	17.77	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	165.02	9.76	18.50	0	0.54	0.00	17.78	0.00
10yr3d	NSLRWCD C37	BASE	165.27	9.75	18.50	0	0.54	0.00	17.79	0.00
10yr3d	NSLRWCD C37	BASE	165.52	9.75	18.50	0	0.54	0.00	17.80	0.00
10yr3d	NSLRWCD C37	BASE	165.77	9.75	18.50	0	0.53	0.00	17.82	0.00
10yr3d	NSLRWCD C37	BASE	166.02	9.75	18.50	0	0.53	0.00	17.83	0.00
10yr3d	NSLRWCD C37	BASE	166.27	9.74	18.50	0	0.53	0.00	17.84	0.00
10yr3d	NSLRWCD C37	BASE	166.52	9.74	18.50	0	0.53	0.00	17.85	0.00
10yr3d	NSLRWCD C37	BASE	166.77	9.74	18.50	0	0.53	0.00	17.86	0.00
10yr3d	NSLRWCD C37	BASE	167.02	9.74	18.50	0	0.52	0.00	17.87	0.00
10yr3d	NSLRWCD C37	BASE	167.27	9.73	18.50	0	0.52	0.00	17.88	0.00
10yr3d	NSLRWCD C37	BASE	167.52	9.73	18.50	0	0.52	0.00	17.89	0.00
10yr3d	NSLRWCD C37	BASE	167.77	9.73	18.50	0	0.52	0.00	17.90	0.00
10yr3d	NSLRWCD C37	BASE	168.02	9.73	18.50	0	0.52	0.00	17.91	0.00
10yr3d	NSLRWCD C37	BASE	168.27	9.72	18.50	0	0.51	0.00	17.92	0.00
10yr3d	NSLRWCD C37	BASE	168.52	9.72	18.50	0	0.51	0.00	17.93	0.00
10yr3d	NSLRWCD C37	BASE	168.77	9.72	18.50	0	0.51	0.00	17.95	0.00
10yr3d	NSLRWCD C37	BASE	169.02	9.72	18.50	0	0.51	0.00	17.96	0.00
10yr3d	NSLRWCD C37	BASE	169.27	9.71	18.50	0	0.51	0.00	17.97	0.00
10yr3d	NSLRWCD C37	BASE	169.52	9.71	18.50	0	0.51	0.00	17.98	0.00
10yr3d	NSLRWCD C37	BASE	169.77	9.71	18.50	0	0.51	0.00	17.99	0.00
10yr3d	NSLRWCD C37	BASE	170.02	9.71	18.50	0	0.50	0.00	18.00	0.00
10yr3d	NSLRWCD C37	BASE	170.27	9.70	18.50	0	0.50	0.00	18.01	0.00
10yr3d	NSLRWCD C37	BASE	170.52	9.70	18.50	0	0.50	0.00	18.02	0.00
10yr3d	NSLRWCD C37	BASE	170.77	9.70	18.50	0	0.50	0.00	18.03	0.00
10yr3d	NSLRWCD C37	BASE	171.02	9.70	18.50	0	0.50	0.00	18.04	0.00
10yr3d	NSLRWCD C37	BASE	171.27	9.69	18.50	0	0.50	0.00	18.05	0.00
10yr3d	NSLRWCD C37	BASE	171.52	9.69	18.50	0	0.50	0.00	18.06	0.00
10yr3d	NSLRWCD C37	BASE	171.77	9.69	18.50	0	0.50	0.00	18.07	0.00
10yr3d	NSLRWCD C37	BASE	172.02	9.69	18.50	0	0.50	0.00	18.08	0.00
10yr3d	NSLRWCD C37	BASE	172.27	9.68	18.50	0	0.50	0.00	18.09	0.00
10yr3d	NSLRWCD C37	BASE	172.52	9.68	18.50	0	0.50	0.00	18.10	0.00
10yr3d	NSLRWCD C37	BASE	172.77	9.68	18.50	0	0.50	0.00	18.11	0.00
10yr3d	NSLRWCD C37	BASE	173.02	9.68	18.50	0	0.50	0.00	18.12	0.00
10yr3d	NSLRWCD C37	BASE	173.27	9.67	18.50	0	0.50	0.00	18.13	0.00
10yr3d	NSLRWCD C37	BASE	173.52	9.67	18.50	0	0.50	0.00	18.14	0.00
10yr3d	NSLRWCD C37	BASE	173.77	9.67	18.50	0	0.50	0.00	18.15	0.00
10yr3d	NSLRWCD C37	BASE	174.02	9.67	18.50	0	0.50	0.00	18.16	0.00
10yr3d	NSLRWCD C37	BASE	174.27	9.66	18.50	0	0.50	0.00	18.17	0.00
10yr3d	NSLRWCD C37	BASE	174.52	9.66	18.50	0	0.50	0.00	18.18	0.00
10yr3d	NSLRWCD C37	BASE	174.77	9.66	18.50	0	0.50	0.00	18.19	0.00
10yr3d	NSLRWCD C37	BASE	175.02	9.66	18.50	0	0.49	0.00	18.20	0.00
10yr3d	NSLRWCD C37	BASE	175.27	9.65	18.50	0	0.49	0.00	18.21	0.00
10yr3d	NSLRWCD C37	BASE	175.52	9.65	18.50	0	0.49	0.00	18.22	0.00
10yr3d	NSLRWCD C37	BASE	175.77	9.65	18.50	0	0.49	0.00	18.23	0.00
10yr3d	NSLRWCD C37	BASE	176.02	9.65	18.50	0	0.49	0.00	18.24	0.00
10yr3d	NSLRWCD C37	BASE	176.27	9.64	18.50	0	0.49	0.00	18.25	0.00
10yr3d	NSLRWCD C37	BASE	176.52	9.64	18.50	0	0.49	0.00	18.26	0.00
10yr3d	NSLRWCD C37	BASE	176.77	9.64	18.50	0	0.49	0.00	18.28	0.00
10yr3d	NSLRWCD C37	BASE	177.02	9.64	18.50	0	0.49	0.00	18.29	0.00
10yr3d	NSLRWCD C37	BASE	177.27	9.63	18.50	0	0.49	0.00	18.30	0.00
10yr3d	NSLRWCD C37	BASE	177.52	9.63	18.50	0	0.49	0.00	18.31	0.00
10yr3d	NSLRWCD C37	BASE	177.77	9.63	18.50	0	0.49	0.00	18.32	0.00
10yr3d	NSLRWCD C37	BASE	178.02	9.63	18.50	0	0.49	0.00	18.33	0.00
10yr3d	NSLRWCD C37	BASE	178.27	9.62	18.50	0	0.49	0.00	18.34	0.00
10yr3d	NSLRWCD C37	BASE	178.52	9.62	18.50	0	0.49	0.00	18.35	0.00
10yr3d	NSLRWCD C37	BASE	178.77	9.62	18.50	0	0.49	0.00	18.36	0.00
10yr3d	NSLRWCD C37	BASE	179.02	9.61	18.50	0	0.49	0.00	18.37	0.00
10yr3d	NSLRWCD C37	BASE	179.27	9.61	18.50	0	0.49	0.00	18.38	0.00
10yr3d	NSLRWCD C37	BASE	179.52	9.61	18.50	0	0.49	0.00	18.39	0.00
10yr3d	NSLRWCD C37	BASE	179.77	9.61	18.50	0	0.49	0.00	18.40	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	180.02	9.60	18.50	0	0.49	0.00	18.41	0.00
10yr3d	NSLRWCD C37	BASE	180.27	9.60	18.50	0	0.49	0.00	18.42	0.00
10yr3d	NSLRWCD C37	BASE	180.52	9.60	18.50	0	0.48	0.00	18.43	0.00
10yr3d	NSLRWCD C37	BASE	180.77	9.60	18.50	0	0.48	0.00	18.44	0.00
10yr3d	NSLRWCD C37	BASE	181.02	9.59	18.50	0	0.48	0.00	18.45	0.00
10yr3d	NSLRWCD C37	BASE	181.27	9.59	18.50	0	0.48	0.00	18.46	0.00
10yr3d	NSLRWCD C37	BASE	181.52	9.59	18.50	0	0.48	0.00	18.47	0.00
10yr3d	NSLRWCD C37	BASE	181.77	9.59	18.50	0	0.48	0.00	18.48	0.00
10yr3d	NSLRWCD C37	BASE	182.02	9.58	18.50	0	0.48	0.00	18.49	0.00
10yr3d	NSLRWCD C37	BASE	182.27	9.58	18.50	0	0.48	0.00	18.50	0.00
10yr3d	NSLRWCD C37	BASE	182.52	9.58	18.50	0	0.48	0.00	18.51	0.00
10yr3d	NSLRWCD C37	BASE	182.77	9.58	18.50	0	0.48	0.00	18.52	0.00
10yr3d	NSLRWCD C37	BASE	183.02	9.57	18.50	0	0.48	0.00	18.53	0.00
10yr3d	NSLRWCD C37	BASE	183.27	9.57	18.50	0	0.48	0.00	18.54	0.00
10yr3d	NSLRWCD C37	BASE	183.52	9.57	18.50	0	0.48	0.00	18.55	0.00
10yr3d	NSLRWCD C37	BASE	183.77	9.57	18.50	0	0.48	0.00	18.56	0.00
10yr3d	NSLRWCD C37	BASE	184.02	9.56	18.50	0	0.48	0.00	18.57	0.00
10yr3d	NSLRWCD C37	BASE	184.27	9.56	18.50	0	0.48	0.00	18.58	0.00
10yr3d	NSLRWCD C37	BASE	184.52	9.56	18.50	0	0.48	0.00	18.59	0.00
10yr3d	NSLRWCD C37	BASE	184.77	9.56	18.50	0	0.48	0.00	18.60	0.00
10yr3d	NSLRWCD C37	BASE	185.02	9.55	18.50	0	0.48	0.00	18.61	0.00
10yr3d	NSLRWCD C37	BASE	185.27	9.55	18.50	0	0.48	0.00	18.62	0.00
10yr3d	NSLRWCD C37	BASE	185.52	9.55	18.50	0	0.48	0.00	18.62	0.00
10yr3d	NSLRWCD C37	BASE	185.77	9.55	18.50	0	0.48	0.00	18.63	0.00
10yr3d	NSLRWCD C37	BASE	186.02	9.54	18.50	0	0.48	0.00	18.64	0.00
10yr3d	NSLRWCD C37	BASE	186.27	9.54	18.50	0	0.47	0.00	18.65	0.00
10yr3d	NSLRWCD C37	BASE	186.52	9.54	18.50	0	0.47	0.00	18.66	0.00
10yr3d	NSLRWCD C37	BASE	186.77	9.54	18.50	0	0.47	0.00	18.67	0.00
10yr3d	NSLRWCD C37	BASE	187.02	9.53	18.50	0	0.47	0.00	18.68	0.00
10yr3d	NSLRWCD C37	BASE	187.27	9.53	18.50	0	0.47	0.00	18.69	0.00
10yr3d	NSLRWCD C37	BASE	187.52	9.53	18.50	0	0.47	0.00	18.70	0.00
10yr3d	NSLRWCD C37	BASE	187.77	9.53	18.50	0	0.47	0.00	18.71	0.00
10yr3d	NSLRWCD C37	BASE	188.02	9.52	18.50	0	0.47	0.00	18.72	0.00
10yr3d	NSLRWCD C37	BASE	188.27	9.52	18.50	0	0.47	0.00	18.73	0.00
10yr3d	NSLRWCD C37	BASE	188.52	9.52	18.50	0	0.47	0.00	18.74	0.00
10yr3d	NSLRWCD C37	BASE	188.77	9.52	18.50	0	0.47	0.00	18.75	0.00
10yr3d	NSLRWCD C37	BASE	189.02	9.51	18.50	0	0.47	0.00	18.76	0.00
10yr3d	NSLRWCD C37	BASE	189.27	9.51	18.50	0	0.47	0.00	18.77	0.00
10yr3d	NSLRWCD C37	BASE	189.52	9.51	18.50	0	0.47	0.00	18.78	0.00
10yr3d	NSLRWCD C37	BASE	189.77	9.51	18.50	0	0.47	0.00	18.79	0.00
10yr3d	NSLRWCD C37	BASE	190.02	9.50	18.50	0	0.47	0.00	18.80	0.00
10yr3d	NSLRWCD C37	BASE	190.27	9.50	18.50	0	0.47	0.00	18.81	0.00
10yr3d	NSLRWCD C37	BASE	190.52	9.50	18.50	0	0.47	0.00	18.82	0.00
10yr3d	NSLRWCD C37	BASE	190.77	9.50	18.50	0	0.47	0.00	18.83	0.00
10yr3d	NSLRWCD C37	BASE	191.02	9.49	18.50	0	0.47	0.00	18.84	0.00
10yr3d	NSLRWCD C37	BASE	191.27	9.49	18.50	0	0.47	0.00	18.85	0.00
10yr3d	NSLRWCD C37	BASE	191.52	9.49	18.50	0	0.47	0.00	18.86	0.00
10yr3d	NSLRWCD C37	BASE	191.77	9.49	18.50	0	0.46	0.00	18.87	0.00
10yr3d	NSLRWCD C37	BASE	192.02	9.48	18.50	0	0.46	0.00	18.88	0.00
10yr3d	NSLRWCD C37	BASE	192.27	9.48	18.50	0	0.46	0.00	18.89	0.00
10yr3d	NSLRWCD C37	BASE	192.52	9.48	18.50	0	0.46	0.00	18.90	0.00
10yr3d	NSLRWCD C37	BASE	192.77	9.48	18.50	0	0.46	0.00	18.91	0.00
10yr3d	NSLRWCD C37	BASE	193.02	9.47	18.50	0	0.46	0.00	18.92	0.00
10yr3d	NSLRWCD C37	BASE	193.27	9.47	18.50	0	0.46	0.00	18.93	0.00
10yr3d	NSLRWCD C37	BASE	193.52	9.47	18.50	0	0.46	0.00	18.93	0.00
10yr3d	NSLRWCD C37	BASE	193.77	9.47	18.50	0	0.46	0.00	18.94	0.00
10yr3d	NSLRWCD C37	BASE	194.02	9.46	18.50	0	0.46	0.00	18.95	0.00
10yr3d	NSLRWCD C37	BASE	194.27	9.46	18.50	0	0.46	0.00	18.96	0.00
10yr3d	NSLRWCD C37	BASE	194.52	9.46	18.50	0	0.46	0.00	18.97	0.00
10yr3d	NSLRWCD C37	BASE	194.77	9.46	18.50	0	0.46	0.00	18.98	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	195.02	9.45	18.50	0	0.46	0.00	18.99	0.00
10yr3d	NSLRWCD C37	BASE	195.27	9.45	18.50	0	0.46	0.00	19.00	0.00
10yr3d	NSLRWCD C37	BASE	195.52	9.45	18.50	0	0.46	0.00	19.01	0.00
10yr3d	NSLRWCD C37	BASE	195.77	9.45	18.50	0	0.46	0.00	19.02	0.00
10yr3d	NSLRWCD C37	BASE	196.02	9.44	18.50	0	0.46	0.00	19.03	0.00
10yr3d	NSLRWCD C37	BASE	196.27	9.44	18.50	0	0.46	0.00	19.04	0.00
10yr3d	NSLRWCD C37	BASE	196.52	9.44	18.50	0	0.46	0.00	19.05	0.00
10yr3d	NSLRWCD C37	BASE	196.77	9.44	18.50	0	0.46	0.00	19.06	0.00
10yr3d	NSLRWCD C37	BASE	197.02	9.43	18.50	0	0.46	0.00	19.07	0.00
10yr3d	NSLRWCD C37	BASE	197.27	9.43	18.50	0	0.45	0.00	19.08	0.00
10yr3d	NSLRWCD C37	BASE	197.52	9.43	18.50	0	0.45	0.00	19.09	0.00
10yr3d	NSLRWCD C37	BASE	197.77	9.42	18.50	0	0.45	0.00	19.10	0.00
10yr3d	NSLRWCD C37	BASE	198.02	9.42	18.50	0	0.45	0.00	19.11	0.00
10yr3d	NSLRWCD C37	BASE	198.27	9.42	18.50	0	0.45	0.00	19.11	0.00
10yr3d	NSLRWCD C37	BASE	198.52	9.42	18.50	0	0.45	0.00	19.12	0.00
10yr3d	NSLRWCD C37	BASE	198.77	9.41	18.50	0	0.45	0.00	19.13	0.00
10yr3d	NSLRWCD C37	BASE	199.02	9.41	18.50	0	0.45	0.00	19.14	0.00
10yr3d	NSLRWCD C37	BASE	199.27	9.41	18.50	0	0.45	0.00	19.15	0.00
10yr3d	NSLRWCD C37	BASE	199.52	9.41	18.50	0	0.45	0.00	19.16	0.00
10yr3d	NSLRWCD C37	BASE	199.77	9.40	18.50	0	0.45	0.00	19.17	0.00
10yr3d	NSLRWCD C37	BASE	200.02	9.40	18.50	0	0.45	0.00	19.18	0.00
10yr3d	NSLRWCD C37	BASE	200.27	9.40	18.50	0	0.45	0.00	19.19	0.00
10yr3d	NSLRWCD C37	BASE	200.52	9.40	18.50	0	0.45	0.00	19.20	0.00
10yr3d	NSLRWCD C37	BASE	200.77	9.39	18.50	0	0.45	0.00	19.21	0.00
10yr3d	NSLRWCD C37	BASE	201.02	9.39	18.50	0	0.45	0.00	19.22	0.00
10yr3d	NSLRWCD C37	BASE	201.27	9.39	18.50	0	0.45	0.00	19.23	0.00
10yr3d	NSLRWCD C37	BASE	201.52	9.39	18.50	0	0.45	0.00	19.24	0.00
10yr3d	NSLRWCD C37	BASE	201.77	9.38	18.50	0	0.45	0.00	19.24	0.00
10yr3d	NSLRWCD C37	BASE	202.02	9.38	18.50	0	0.45	0.00	19.25	0.00
10yr3d	NSLRWCD C37	BASE	202.27	9.38	18.50	0	0.45	0.00	19.26	0.00
10yr3d	NSLRWCD C37	BASE	202.52	9.38	18.50	0	0.45	0.00	19.27	0.00
10yr3d	NSLRWCD C37	BASE	202.77	9.37	18.50	0	0.44	0.00	19.28	0.00
10yr3d	NSLRWCD C37	BASE	203.02	9.37	18.50	0	0.44	0.00	19.29	0.00
10yr3d	NSLRWCD C37	BASE	203.27	9.37	18.50	0	0.44	0.00	19.30	0.00
10yr3d	NSLRWCD C37	BASE	203.52	9.37	18.50	0	0.44	0.00	19.31	0.00
10yr3d	NSLRWCD C37	BASE	203.77	9.36	18.50	0	0.44	0.00	19.32	0.00
10yr3d	NSLRWCD C37	BASE	204.02	9.36	18.50	0	0.44	0.00	19.33	0.00
10yr3d	NSLRWCD C37	BASE	204.27	9.36	18.50	0	0.44	0.00	19.34	0.00
10yr3d	NSLRWCD C37	BASE	204.52	9.36	18.50	0	0.44	0.00	19.35	0.00
10yr3d	NSLRWCD C37	BASE	204.77	9.35	18.50	0	0.44	0.00	19.35	0.00
10yr3d	NSLRWCD C37	BASE	205.02	9.35	18.50	0	0.44	0.00	19.36	0.00
10yr3d	NSLRWCD C37	BASE	205.27	9.35	18.50	0	0.44	0.00	19.37	0.00
10yr3d	NSLRWCD C37	BASE	205.52	9.35	18.50	0	0.44	0.00	19.38	0.00
10yr3d	NSLRWCD C37	BASE	205.77	9.34	18.50	0	0.44	0.00	19.39	0.00
10yr3d	NSLRWCD C37	BASE	206.02	9.34	18.50	0	0.44	0.00	19.40	0.00
10yr3d	NSLRWCD C37	BASE	206.27	9.34	18.50	0	0.44	0.00	19.41	0.00
10yr3d	NSLRWCD C37	BASE	206.52	9.34	18.50	0	0.44	0.00	19.42	0.00
10yr3d	NSLRWCD C37	BASE	206.77	9.33	18.50	0	0.44	0.00	19.43	0.00
10yr3d	NSLRWCD C37	BASE	207.02	9.33	18.50	0	0.44	0.00	19.44	0.00
10yr3d	NSLRWCD C37	BASE	207.27	9.33	18.50	0	0.44	0.00	19.45	0.00
10yr3d	NSLRWCD C37	BASE	207.52	9.33	18.50	0	0.44	0.00	19.45	0.00
10yr3d	NSLRWCD C37	BASE	207.77	9.32	18.50	0	0.44	0.00	19.46	0.00
10yr3d	NSLRWCD C37	BASE	208.02	9.32	18.50	0	0.44	0.00	19.47	0.00
10yr3d	NSLRWCD C37	BASE	208.27	9.32	18.50	0	0.44	0.00	19.48	0.00
10yr3d	NSLRWCD C37	BASE	208.52	9.32	18.50	0	0.43	0.00	19.49	0.00
10yr3d	NSLRWCD C37	BASE	208.77	9.31	18.50	0	0.43	0.00	19.50	0.00
10yr3d	NSLRWCD C37	BASE	209.02	9.31	18.50	0	0.43	0.00	19.51	0.00
10yr3d	NSLRWCD C37	BASE	209.27	9.31	18.50	0	0.43	0.00	19.52	0.00
10yr3d	NSLRWCD C37	BASE	209.52	9.31	18.50	0	0.43	0.00	19.53	0.00
10yr3d	NSLRWCD C37	BASE	209.77	9.30	18.50	0	0.43	0.00	19.54	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	210.02	9.30	18.50	0	0.43	0.00	19.54	0.00
10yr3d	NSLRWCD C37	BASE	210.27	9.30	18.50	0	0.43	0.00	19.55	0.00
10yr3d	NSLRWCD C37	BASE	210.52	9.30	18.50	0	0.43	0.00	19.56	0.00
10yr3d	NSLRWCD C37	BASE	210.77	9.29	18.50	0	0.43	0.00	19.57	0.00
10yr3d	NSLRWCD C37	BASE	211.02	9.29	18.50	0	0.43	0.00	19.58	0.00
10yr3d	NSLRWCD C37	BASE	211.27	9.29	18.50	0	0.43	0.00	19.59	0.00
10yr3d	NSLRWCD C37	BASE	211.52	9.29	18.50	0	0.43	0.00	19.60	0.00
10yr3d	NSLRWCD C37	BASE	211.77	9.28	18.50	0	0.43	0.00	19.61	0.00
10yr3d	NSLRWCD C37	BASE	212.02	9.28	18.50	0	0.43	0.00	19.62	0.00
10yr3d	NSLRWCD C37	BASE	212.27	9.28	18.50	0	0.43	0.00	19.62	0.00
10yr3d	NSLRWCD C37	BASE	212.52	9.28	18.50	0	0.43	0.00	19.63	0.00
10yr3d	NSLRWCD C37	BASE	212.77	9.27	18.50	0	0.43	0.00	19.64	0.00
10yr3d	NSLRWCD C37	BASE	213.02	9.27	18.50	0	0.43	0.00	19.65	0.00
10yr3d	NSLRWCD C37	BASE	213.27	9.27	18.50	0	0.43	0.00	19.66	0.00
10yr3d	NSLRWCD C37	BASE	213.52	9.27	18.50	0	0.43	0.00	19.67	0.00
10yr3d	NSLRWCD C37	BASE	213.77	9.26	18.50	0	0.43	0.00	19.68	0.00
10yr3d	NSLRWCD C37	BASE	214.02	9.26	18.50	0	0.42	0.00	19.69	0.00
10yr3d	NSLRWCD C37	BASE	214.27	9.26	18.50	0	0.42	0.00	19.69	0.00
10yr3d	NSLRWCD C37	BASE	214.52	9.26	18.50	0	0.42	0.00	19.70	0.00
10yr3d	NSLRWCD C37	BASE	214.77	9.25	18.50	0	0.42	0.00	19.71	0.00
10yr3d	NSLRWCD C37	BASE	215.02	9.25	18.50	0	0.42	0.00	19.72	0.00
10yr3d	NSLRWCD C37	BASE	215.27	9.25	18.50	0	0.42	0.00	19.73	0.00
10yr3d	NSLRWCD C37	BASE	215.52	9.24	18.50	0	0.42	0.00	19.74	0.00
10yr3d	NSLRWCD C37	BASE	215.77	9.24	18.50	0	0.42	0.00	19.75	0.00
10yr3d	NSLRWCD C37	BASE	216.02	9.24	18.50	0	0.42	0.00	19.76	0.00
10yr3d	NSLRWCD C37	BASE	216.27	9.24	18.50	0	0.42	0.00	19.76	0.00
10yr3d	NSLRWCD C37	BASE	216.52	9.23	18.50	0	0.42	0.00	19.77	0.00
10yr3d	NSLRWCD C37	BASE	216.77	9.23	18.50	0	0.42	0.00	19.78	0.00
10yr3d	NSLRWCD C37	BASE	217.02	9.23	18.50	0	0.42	0.00	19.79	0.00
10yr3d	NSLRWCD C37	BASE	217.27	9.23	18.50	0	0.42	0.00	19.80	0.00
10yr3d	NSLRWCD C37	BASE	217.52	9.22	18.50	0	0.42	0.00	19.81	0.00
10yr3d	NSLRWCD C37	BASE	217.77	9.22	18.50	0	0.42	0.00	19.82	0.00
10yr3d	NSLRWCD C37	BASE	218.02	9.22	18.50	0	0.42	0.00	19.82	0.00
10yr3d	NSLRWCD C37	BASE	218.27	9.22	18.50	0	0.42	0.00	19.83	0.00
10yr3d	NSLRWCD C37	BASE	218.52	9.21	18.50	0	0.42	0.00	19.84	0.00
10yr3d	NSLRWCD C37	BASE	218.77	9.21	18.50	0	0.42	0.00	19.85	0.00
10yr3d	NSLRWCD C37	BASE	219.02	9.21	18.50	0	0.42	0.00	19.86	0.00
10yr3d	NSLRWCD C37	BASE	219.27	9.21	18.50	0	0.42	0.00	19.87	0.00
10yr3d	NSLRWCD C37	BASE	219.52	9.20	18.50	0	0.41	0.00	19.88	0.00
10yr3d	NSLRWCD C37	BASE	219.77	9.20	18.50	0	0.41	0.00	19.88	0.00
10yr3d	NSLRWCD C37	BASE	220.02	9.20	18.50	0	0.41	0.00	19.89	0.00
10yr3d	NSLRWCD C37	BASE	220.27	9.20	18.50	0	0.41	0.00	19.90	0.00
10yr3d	NSLRWCD C37	BASE	220.52	9.19	18.50	0	0.41	0.00	19.91	0.00
10yr3d	NSLRWCD C37	BASE	220.77	9.19	18.50	0	0.41	0.00	19.92	0.00
10yr3d	NSLRWCD C37	BASE	221.02	9.19	18.50	0	0.41	0.00	19.93	0.00
10yr3d	NSLRWCD C37	BASE	221.27	9.19	18.50	0	0.41	0.00	19.94	0.00
10yr3d	NSLRWCD C37	BASE	221.52	9.18	18.50	0	0.41	0.00	19.94	0.00
10yr3d	NSLRWCD C37	BASE	221.77	9.18	18.50	0	0.41	0.00	19.95	0.00
10yr3d	NSLRWCD C37	BASE	222.02	9.18	18.50	0	0.41	0.00	19.96	0.00
10yr3d	NSLRWCD C37	BASE	222.27	9.18	18.50	0	0.41	0.00	19.97	0.00
10yr3d	NSLRWCD C37	BASE	222.52	9.17	18.50	0	0.41	0.00	19.98	0.00
10yr3d	NSLRWCD C37	BASE	222.77	9.17	18.50	0	0.41	0.00	19.99	0.00
10yr3d	NSLRWCD C37	BASE	223.02	9.17	18.50	0	0.41	0.00	20.00	0.00
10yr3d	NSLRWCD C37	BASE	223.27	9.17	18.50	0	0.41	0.00	20.00	0.00
10yr3d	NSLRWCD C37	BASE	223.52	9.16	18.50	0	0.41	0.00	20.01	0.00
10yr3d	NSLRWCD C37	BASE	223.77	9.16	18.50	0	0.41	0.00	20.02	0.00
10yr3d	NSLRWCD C37	BASE	224.02	9.16	18.50	0	0.41	0.00	20.03	0.00
10yr3d	NSLRWCD C37	BASE	224.27	9.16	18.50	0	0.41	0.00	20.04	0.00
10yr3d	NSLRWCD C37	BASE	224.52	9.15	18.50	0	0.41	0.00	20.05	0.00
10yr3d	NSLRWCD C37	BASE	224.77	9.15	18.50	0	0.41	0.00	20.05	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	225.02	9.15	18.50	0	0.40	0.00	20.06	0.00
10yr3d	NSLRWCD C37	BASE	225.27	9.15	18.50	0	0.40	0.00	20.07	0.00
10yr3d	NSLRWCD C37	BASE	225.52	9.14	18.50	0	0.40	0.00	20.08	0.00
10yr3d	NSLRWCD C37	BASE	225.77	9.14	18.50	0	0.40	0.00	20.09	0.00
10yr3d	NSLRWCD C37	BASE	226.02	9.14	18.50	0	0.40	0.00	20.10	0.00
10yr3d	NSLRWCD C37	BASE	226.27	9.14	18.50	0	0.40	0.00	20.10	0.00
10yr3d	NSLRWCD C37	BASE	226.52	9.13	18.50	0	0.40	0.00	20.11	0.00
10yr3d	NSLRWCD C37	BASE	226.77	9.13	18.50	0	0.40	0.00	20.12	0.00
10yr3d	NSLRWCD C37	BASE	227.02	9.13	18.50	0	0.40	0.00	20.13	0.00
10yr3d	NSLRWCD C37	BASE	227.27	9.13	18.50	0	0.40	0.00	20.14	0.00
10yr3d	NSLRWCD C37	BASE	227.52	9.12	18.50	0	0.40	0.00	20.15	0.00
10yr3d	NSLRWCD C37	BASE	227.77	9.12	18.50	0	0.40	0.00	20.15	0.00
10yr3d	NSLRWCD C37	BASE	228.02	9.12	18.50	0	0.40	0.00	20.16	0.00
10yr3d	NSLRWCD C37	BASE	228.27	9.12	18.50	0	0.40	0.00	20.17	0.00
10yr3d	NSLRWCD C37	BASE	228.52	9.11	18.50	0	0.40	0.00	20.18	0.00
10yr3d	NSLRWCD C37	BASE	228.77	9.11	18.50	0	0.40	0.00	20.19	0.00
10yr3d	NSLRWCD C37	BASE	229.02	9.11	18.50	0	0.40	0.00	20.20	0.00
10yr3d	NSLRWCD C37	BASE	229.27	9.11	18.50	0	0.40	0.00	20.20	0.00
10yr3d	NSLRWCD C37	BASE	229.52	9.10	18.50	0	0.40	0.00	20.21	0.00
10yr3d	NSLRWCD C37	BASE	229.77	9.10	18.50	0	0.40	0.00	20.22	0.00
10yr3d	NSLRWCD C37	BASE	230.02	9.10	18.50	0	0.40	0.00	20.23	0.00
10yr3d	NSLRWCD C37	BASE	230.27	9.10	18.50	0	0.40	0.00	20.24	0.00
10yr3d	NSLRWCD C37	BASE	230.52	9.09	18.50	0	0.39	0.00	20.24	0.00
10yr3d	NSLRWCD C37	BASE	230.77	9.09	18.50	0	0.39	0.00	20.25	0.00
10yr3d	NSLRWCD C37	BASE	231.02	9.09	18.50	0	0.39	0.00	20.26	0.00
10yr3d	NSLRWCD C37	BASE	231.27	9.09	18.50	0	0.39	0.00	20.27	0.00
10yr3d	NSLRWCD C37	BASE	231.52	9.08	18.50	0	0.39	0.00	20.28	0.00
10yr3d	NSLRWCD C37	BASE	231.77	9.08	18.50	0	0.39	0.00	20.28	0.00
10yr3d	NSLRWCD C37	BASE	232.02	9.08	18.50	0	0.39	0.00	20.29	0.00
10yr3d	NSLRWCD C37	BASE	232.27	9.08	18.50	0	0.39	0.00	20.30	0.00
10yr3d	NSLRWCD C37	BASE	232.52	9.07	18.50	0	0.39	0.00	20.31	0.00
10yr3d	NSLRWCD C37	BASE	232.77	9.07	18.50	0	0.39	0.00	20.32	0.00
10yr3d	NSLRWCD C37	BASE	233.02	9.07	18.50	0	0.39	0.00	20.33	0.00
10yr3d	NSLRWCD C37	BASE	233.27	9.06	18.50	0	0.39	0.00	20.33	0.00
10yr3d	NSLRWCD C37	BASE	233.52	9.06	18.50	0	0.39	0.00	20.34	0.00
10yr3d	NSLRWCD C37	BASE	233.77	9.06	18.50	0	0.39	0.00	20.35	0.00
10yr3d	NSLRWCD C37	BASE	234.02	9.06	18.50	0	0.39	0.00	20.36	0.00
10yr3d	NSLRWCD C37	BASE	234.27	9.05	18.50	0	0.39	0.00	20.37	0.00
10yr3d	NSLRWCD C37	BASE	234.52	9.05	18.50	0	0.39	0.00	20.37	0.00
10yr3d	NSLRWCD C37	BASE	234.77	9.05	18.50	0	0.39	0.00	20.38	0.00
10yr3d	NSLRWCD C37	BASE	235.02	9.05	18.50	0	0.39	0.00	20.39	0.00
10yr3d	NSLRWCD C37	BASE	235.27	9.04	18.50	0	0.39	0.00	20.40	0.00
10yr3d	NSLRWCD C37	BASE	235.52	9.04	18.50	0	0.39	0.00	20.41	0.00
10yr3d	NSLRWCD C37	BASE	235.77	9.04	18.50	0	0.39	0.00	20.41	0.00
10yr3d	NSLRWCD C37	BASE	236.02	9.04	18.50	0	0.38	0.00	20.42	0.00
10yr3d	NSLRWCD C37	BASE	236.27	9.03	18.50	0	0.38	0.00	20.43	0.00
10yr3d	NSLRWCD C37	BASE	236.52	9.03	18.50	0	0.38	0.00	20.44	0.00
10yr3d	NSLRWCD C37	BASE	236.77	9.03	18.50	0	0.38	0.00	20.45	0.00
10yr3d	NSLRWCD C37	BASE	237.02	9.03	18.50	0	0.38	0.00	20.45	0.00
10yr3d	NSLRWCD C37	BASE	237.27	9.02	18.50	0	0.38	0.00	20.46	0.00
10yr3d	NSLRWCD C37	BASE	237.52	9.02	18.50	0	0.38	0.00	20.47	0.00
10yr3d	NSLRWCD C37	BASE	237.77	9.02	18.50	0	0.38	0.00	20.48	0.00
10yr3d	NSLRWCD C37	BASE	238.02	9.02	18.50	0	0.38	0.00	20.48	0.00
10yr3d	NSLRWCD C37	BASE	238.27	9.01	18.50	0	0.38	0.00	20.49	0.00
10yr3d	NSLRWCD C37	BASE	238.52	9.01	18.50	0	0.38	0.00	20.50	0.00
10yr3d	NSLRWCD C37	BASE	238.77	9.01	18.50	0	0.38	0.00	20.51	0.00
10yr3d	NSLRWCD C37	BASE	239.02	9.01	18.50	0	0.38	0.00	20.52	0.00
10yr3d	NSLRWCD C37	BASE	239.27	9.00	18.50	0	0.38	0.00	20.52	0.00
10yr3d	NSLRWCD C37	BASE	239.52	9.00	18.50	0	0.38	0.00	20.53	0.00
10yr3d	NSLRWCD C37	BASE	239.77	9.00	18.50	0	0.38	0.00	20.54	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	240.02	9.00	18.50	0	0.38	0.00	20.55	0.00
10yr3d	NSLRWCD C37	BASE	240.27	8.99	18.50	0	0.38	0.00	20.56	0.00
10yr3d	NSLRWCD C37	BASE	240.52	8.99	18.50	0	0.38	0.00	20.56	0.00
10yr3d	NSLRWCD C37	BASE	240.77	8.99	18.50	0	0.38	0.00	20.57	0.00
10yr3d	NSLRWCD C37	BASE	241.02	8.99	18.50	0	0.38	0.00	20.58	0.00
10yr3d	NSLRWCD C37	BASE	241.27	8.98	18.50	0	0.38	0.00	20.59	0.00
10yr3d	NSLRWCD C37	BASE	241.52	8.98	18.50	0	0.37	0.00	20.59	0.00
10yr3d	NSLRWCD C37	BASE	241.77	8.98	18.50	0	0.37	0.00	20.60	0.00
10yr3d	NSLRWCD C37	BASE	242.02	8.98	18.50	0	0.37	0.00	20.61	0.00
10yr3d	NSLRWCD C37	BASE	242.27	8.97	18.50	0	0.37	0.00	20.62	0.00
10yr3d	NSLRWCD C37	BASE	242.52	8.97	18.50	0	0.37	0.00	20.62	0.00
10yr3d	NSLRWCD C37	BASE	242.77	8.97	18.50	0	0.37	0.00	20.63	0.00
10yr3d	NSLRWCD C37	BASE	243.02	8.97	18.50	0	0.37	0.00	20.64	0.00
10yr3d	NSLRWCD C37	BASE	243.27	8.96	18.50	0	0.37	0.00	20.65	0.00
10yr3d	NSLRWCD C37	BASE	243.52	8.96	18.50	0	0.37	0.00	20.66	0.00
10yr3d	NSLRWCD C37	BASE	243.77	8.96	18.50	0	0.37	0.00	20.66	0.00
10yr3d	NSLRWCD C37	BASE	244.02	8.96	18.50	0	0.37	0.00	20.67	0.00
10yr3d	NSLRWCD C37	BASE	244.27	8.95	18.50	0	0.37	0.00	20.68	0.00
10yr3d	NSLRWCD C37	BASE	244.52	8.95	18.50	0	0.37	0.00	20.69	0.00
10yr3d	NSLRWCD C37	BASE	244.77	8.95	18.50	0	0.37	0.00	20.69	0.00
10yr3d	NSLRWCD C37	BASE	245.02	8.95	18.50	0	0.37	0.00	20.70	0.00
10yr3d	NSLRWCD C37	BASE	245.27	8.94	18.50	0	0.37	0.00	20.71	0.00
10yr3d	NSLRWCD C37	BASE	245.51	8.94	18.50	0	0.37	0.00	20.72	0.00
10yr3d	NSLRWCD C37	BASE	245.75	8.94	18.50	0	0.37	0.00	20.72	0.00
10yr3d	NSLRWCD C37	BASE	246.01	8.94	18.50	0	0.37	0.00	20.73	0.00
10yr3d	NSLRWCD C37	BASE	246.25	8.93	18.50	0	0.37	0.00	20.74	0.00
10yr3d	NSLRWCD C37	BASE	246.51	8.93	18.50	0	0.37	0.00	20.75	0.00
10yr3d	NSLRWCD C37	BASE	246.76	8.93	18.50	0	0.37	0.00	20.75	0.00
10yr3d	NSLRWCD C37	BASE	247.01	8.93	18.50	0	0.36	0.00	20.76	0.00
10yr3d	NSLRWCD C37	BASE	247.26	8.92	18.50	0	0.36	0.00	20.77	0.00
10yr3d	NSLRWCD C37	BASE	247.51	8.92	18.50	0	0.36	0.00	20.78	0.00
10yr3d	NSLRWCD C37	BASE	247.76	8.92	18.50	0	0.36	0.00	20.78	0.00
10yr3d	NSLRWCD C37	BASE	248.01	8.92	18.50	0	0.36	0.00	20.79	0.00
10yr3d	NSLRWCD C37	BASE	248.26	8.91	18.50	0	0.36	0.00	20.80	0.00
10yr3d	NSLRWCD C37	BASE	248.51	8.91	18.50	0	0.36	0.00	20.81	0.00
10yr3d	NSLRWCD C37	BASE	248.76	8.91	18.50	0	0.36	0.00	20.81	0.00
10yr3d	NSLRWCD C37	BASE	249.01	8.91	18.50	0	0.36	0.00	20.82	0.00
10yr3d	NSLRWCD C37	BASE	249.26	8.90	18.50	0	0.36	0.00	20.83	0.00
10yr3d	NSLRWCD C37	BASE	249.51	8.90	18.50	0	0.36	0.00	20.84	0.00
10yr3d	NSLRWCD C37	BASE	249.76	8.90	18.50	0	0.36	0.00	20.84	0.00
10yr3d	NSLRWCD C37	BASE	250.01	8.90	18.50	0	0.36	0.00	20.85	0.00
10yr3d	NSLRWCD C37	BASE	250.26	8.89	18.50	0	0.36	0.00	20.86	0.00
10yr3d	NSLRWCD C37	BASE	250.51	8.89	18.50	0	0.36	0.00	20.87	0.00
10yr3d	NSLRWCD C37	BASE	250.76	8.89	18.50	0	0.36	0.00	20.87	0.00
10yr3d	NSLRWCD C37	BASE	251.01	8.89	18.50	0	0.36	0.00	20.88	0.00
10yr3d	NSLRWCD C37	BASE	251.26	8.88	18.50	0	0.36	0.00	20.89	0.00
10yr3d	NSLRWCD C37	BASE	251.51	8.88	18.50	0	0.36	0.00	20.90	0.00
10yr3d	NSLRWCD C37	BASE	251.76	8.88	18.50	0	0.36	0.00	20.90	0.00
10yr3d	NSLRWCD C37	BASE	252.01	8.87	18.50	0	0.36	0.00	20.91	0.00
10yr3d	NSLRWCD C37	BASE	252.26	8.87	18.50	0	0.36	0.00	20.92	0.00
10yr3d	NSLRWCD C37	BASE	252.51	8.87	18.50	0	0.35	0.00	20.93	0.00
10yr3d	NSLRWCD C37	BASE	252.76	8.87	18.50	0	0.35	0.00	20.93	0.00
10yr3d	NSLRWCD C37	BASE	253.01	8.86	18.50	0	0.35	0.00	20.94	0.00
10yr3d	NSLRWCD C37	BASE	253.26	8.86	18.50	0	0.35	0.00	20.95	0.00
10yr3d	NSLRWCD C37	BASE	253.51	8.86	18.50	0	0.35	0.00	20.95	0.00
10yr3d	NSLRWCD C37	BASE	253.76	8.86	18.50	0	0.35	0.00	20.96	0.00
10yr3d	NSLRWCD C37	BASE	254.01	8.85	18.50	0	0.35	0.00	20.97	0.00
10yr3d	NSLRWCD C37	BASE	254.26	8.85	18.50	0	0.35	0.00	20.98	0.00
10yr3d	NSLRWCD C37	BASE	254.51	8.85	18.50	0	0.35	0.00	20.98	0.00
10yr3d	NSLRWCD C37	BASE	254.76	8.85	18.50	0	0.35	0.00	20.99	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	255.01	8.84	18.50	0	0.35	0.00	21.00	0.00
10yr3d	NSLRWCD C37	BASE	255.26	8.84	18.50	0	0.35	0.00	21.01	0.00
10yr3d	NSLRWCD C37	BASE	255.51	8.84	18.50	0	0.35	0.00	21.01	0.00
10yr3d	NSLRWCD C37	BASE	255.76	8.84	18.50	0	0.35	0.00	21.02	0.00
10yr3d	NSLRWCD C37	BASE	256.01	8.83	18.50	0	0.35	0.00	21.03	0.00
10yr3d	NSLRWCD C37	BASE	256.26	8.83	18.50	0	0.35	0.00	21.03	0.00
10yr3d	NSLRWCD C37	BASE	256.51	8.83	18.50	0	0.35	0.00	21.04	0.00
10yr3d	NSLRWCD C37	BASE	256.76	8.83	18.50	0	0.35	0.00	21.05	0.00
10yr3d	NSLRWCD C37	BASE	257.01	8.82	18.50	0	0.35	0.00	21.06	0.00
10yr3d	NSLRWCD C37	BASE	257.26	8.82	18.50	0	0.35	0.00	21.06	0.00
10yr3d	NSLRWCD C37	BASE	257.51	8.82	18.50	0	0.35	0.00	21.07	0.00
10yr3d	NSLRWCD C37	BASE	257.76	8.82	18.50	0	0.35	0.00	21.08	0.00
10yr3d	NSLRWCD C37	BASE	258.01	8.81	18.50	0	0.34	0.00	21.08	0.00
10yr3d	NSLRWCD C37	BASE	258.26	8.81	18.50	0	0.34	0.00	21.09	0.00
10yr3d	NSLRWCD C37	BASE	258.51	8.81	18.50	0	0.34	0.00	21.10	0.00
10yr3d	NSLRWCD C37	BASE	258.76	8.81	18.50	0	0.34	0.00	21.11	0.00
10yr3d	NSLRWCD C37	BASE	259.01	8.80	18.50	0	0.34	0.00	21.11	0.00
10yr3d	NSLRWCD C37	BASE	259.26	8.80	18.50	0	0.34	0.00	21.12	0.00
10yr3d	NSLRWCD C37	BASE	259.51	8.80	18.50	0	0.34	0.00	21.13	0.00
10yr3d	NSLRWCD C37	BASE	259.76	8.80	18.50	0	0.34	0.00	21.13	0.00
10yr3d	NSLRWCD C37	BASE	260.01	8.79	18.50	0	0.34	0.00	21.14	0.00
10yr3d	NSLRWCD C37	BASE	260.26	8.79	18.50	0	0.34	0.00	21.15	0.00
10yr3d	NSLRWCD C37	BASE	260.51	8.79	18.50	0	0.34	0.00	21.15	0.00
10yr3d	NSLRWCD C37	BASE	260.76	8.79	18.50	0	0.34	0.00	21.16	0.00
10yr3d	NSLRWCD C37	BASE	261.01	8.78	18.50	0	0.34	0.00	21.17	0.00
10yr3d	NSLRWCD C37	BASE	261.26	8.78	18.50	0	0.34	0.00	21.18	0.00
10yr3d	NSLRWCD C37	BASE	261.51	8.78	18.50	0	0.34	0.00	21.18	0.00
10yr3d	NSLRWCD C37	BASE	261.76	8.78	18.50	0	0.34	0.00	21.19	0.00
10yr3d	NSLRWCD C37	BASE	262.01	8.77	18.50	0	0.34	0.00	21.20	0.00
10yr3d	NSLRWCD C37	BASE	262.26	8.77	18.50	0	0.34	0.00	21.20	0.00
10yr3d	NSLRWCD C37	BASE	262.51	8.77	18.50	0	0.34	0.00	21.21	0.00
10yr3d	NSLRWCD C37	BASE	262.76	8.77	18.50	0	0.34	0.00	21.22	0.00
10yr3d	NSLRWCD C37	BASE	263.01	8.76	18.50	0	0.34	0.00	21.22	0.00
10yr3d	NSLRWCD C37	BASE	263.26	8.76	18.50	0	0.33	0.00	21.23	0.00
10yr3d	NSLRWCD C37	BASE	263.51	8.76	18.50	0	0.33	0.00	21.24	0.00
10yr3d	NSLRWCD C37	BASE	263.76	8.76	18.50	0	0.33	0.00	21.25	0.00
10yr3d	NSLRWCD C37	BASE	264.01	8.75	18.50	0	0.33	0.00	21.25	0.00
10yr3d	NSLRWCD C37	BASE	264.26	8.75	18.50	0	0.33	0.00	21.26	0.00
10yr3d	NSLRWCD C37	BASE	264.51	8.75	18.50	0	0.33	0.00	21.27	0.00
10yr3d	NSLRWCD C37	BASE	264.76	8.75	18.50	0	0.33	0.00	21.27	0.00
10yr3d	NSLRWCD C37	BASE	265.01	8.74	18.50	0	0.33	0.00	21.28	0.00
10yr3d	NSLRWCD C37	BASE	265.26	8.74	18.50	0	0.33	0.00	21.29	0.00
10yr3d	NSLRWCD C37	BASE	265.51	8.74	18.50	0	0.33	0.00	21.29	0.00
10yr3d	NSLRWCD C37	BASE	265.76	8.74	18.50	0	0.33	0.00	21.30	0.00
10yr3d	NSLRWCD C37	BASE	266.01	8.73	18.50	0	0.33	0.00	21.31	0.00
10yr3d	NSLRWCD C37	BASE	266.26	8.73	18.50	0	0.33	0.00	21.31	0.00
10yr3d	NSLRWCD C37	BASE	266.51	8.73	18.50	0	0.33	0.00	21.32	0.00
10yr3d	NSLRWCD C37	BASE	266.76	8.73	18.50	0	0.33	0.00	21.33	0.00
10yr3d	NSLRWCD C37	BASE	267.01	8.72	18.50	0	0.33	0.00	21.33	0.00
10yr3d	NSLRWCD C37	BASE	267.26	8.72	18.50	0	0.33	0.00	21.34	0.00
10yr3d	NSLRWCD C37	BASE	267.51	8.72	18.50	0	0.33	0.00	21.35	0.00
10yr3d	NSLRWCD C37	BASE	267.76	8.72	18.50	0	0.33	0.00	21.35	0.00
10yr3d	NSLRWCD C37	BASE	268.01	8.71	18.50	0	0.33	0.00	21.36	0.00
10yr3d	NSLRWCD C37	BASE	268.26	8.71	18.50	0	0.33	0.00	21.37	0.00
10yr3d	NSLRWCD C37	BASE	268.51	8.71	18.50	0	0.33	0.00	21.37	0.00
10yr3d	NSLRWCD C37	BASE	268.76	8.71	18.50	0	0.32	0.00	21.38	0.00
10yr3d	NSLRWCD C37	BASE	269.01	8.70	18.50	0	0.32	0.00	21.39	0.00
10yr3d	NSLRWCD C37	BASE	269.26	8.70	18.50	0	0.32	0.00	21.39	0.00
10yr3d	NSLRWCD C37	BASE	269.51	8.70	18.50	0	0.32	0.00	21.40	0.00
10yr3d	NSLRWCD C37	BASE	269.76	8.69	18.50	0	0.32	0.00	21.41	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	270.01	8.69	18.50	0	0.32	0.00	21.42	0.00
10yr3d	NSLRWCD C37	BASE	270.26	8.69	18.50	0	0.32	0.00	21.42	0.00
10yr3d	NSLRWCD C37	BASE	270.51	8.69	18.50	0	0.32	0.00	21.43	0.00
10yr3d	NSLRWCD C37	BASE	270.76	8.68	18.50	0	0.32	0.00	21.43	0.00
10yr3d	NSLRWCD C37	BASE	271.01	8.68	18.50	0	0.32	0.00	21.44	0.00
10yr3d	NSLRWCD C37	BASE	271.26	8.68	18.50	0	0.32	0.00	21.45	0.00
10yr3d	NSLRWCD C37	BASE	271.51	8.68	18.50	0	0.32	0.00	21.45	0.00
10yr3d	NSLRWCD C37	BASE	271.76	8.67	18.50	0	0.32	0.00	21.46	0.00
10yr3d	NSLRWCD C37	BASE	272.01	8.67	18.50	0	0.32	0.00	21.47	0.00
10yr3d	NSLRWCD C37	BASE	272.26	8.67	18.50	0	0.32	0.00	21.47	0.00
10yr3d	NSLRWCD C37	BASE	272.51	8.67	18.50	0	0.32	0.00	21.48	0.00
10yr3d	NSLRWCD C37	BASE	272.76	8.66	18.50	0	0.32	0.00	21.49	0.00
10yr3d	NSLRWCD C37	BASE	273.01	8.66	18.50	0	0.32	0.00	21.49	0.00
10yr3d	NSLRWCD C37	BASE	273.26	8.66	18.50	0	0.32	0.00	21.50	0.00
10yr3d	NSLRWCD C37	BASE	273.51	8.66	18.50	0	0.32	0.00	21.51	0.00
10yr3d	NSLRWCD C37	BASE	273.76	8.65	18.50	0	0.32	0.00	21.51	0.00
10yr3d	NSLRWCD C37	BASE	274.01	8.65	18.50	0	0.32	0.00	21.52	0.00
10yr3d	NSLRWCD C37	BASE	274.26	8.65	18.50	0	0.31	0.00	21.53	0.00
10yr3d	NSLRWCD C37	BASE	274.51	8.65	18.50	0	0.31	0.00	21.53	0.00
10yr3d	NSLRWCD C37	BASE	274.76	8.64	18.50	0	0.31	0.00	21.54	0.00
10yr3d	NSLRWCD C37	BASE	275.01	8.64	18.50	0	0.31	0.00	21.55	0.00
10yr3d	NSLRWCD C37	BASE	275.26	8.64	18.50	0	0.31	0.00	21.55	0.00
10yr3d	NSLRWCD C37	BASE	275.51	8.64	18.50	0	0.31	0.00	21.56	0.00
10yr3d	NSLRWCD C37	BASE	275.76	8.63	18.50	0	0.31	0.00	21.57	0.00
10yr3d	NSLRWCD C37	BASE	276.01	8.63	18.50	0	0.31	0.00	21.57	0.00
10yr3d	NSLRWCD C37	BASE	276.26	8.63	18.50	0	0.31	0.00	21.58	0.00
10yr3d	NSLRWCD C37	BASE	276.51	8.63	18.50	0	0.31	0.00	21.59	0.00
10yr3d	NSLRWCD C37	BASE	276.76	8.62	18.50	0	0.31	0.00	21.59	0.00
10yr3d	NSLRWCD C37	BASE	277.01	8.62	18.50	0	0.31	0.00	21.60	0.00
10yr3d	NSLRWCD C37	BASE	277.26	8.62	18.50	0	0.31	0.00	21.60	0.00
10yr3d	NSLRWCD C37	BASE	277.51	8.62	18.50	0	0.31	0.00	21.61	0.00
10yr3d	NSLRWCD C37	BASE	277.76	8.61	18.50	0	0.31	0.00	21.62	0.00
10yr3d	NSLRWCD C37	BASE	278.01	8.61	18.50	0	0.31	0.00	21.62	0.00
10yr3d	NSLRWCD C37	BASE	278.26	8.61	18.50	0	0.31	0.00	21.63	0.00
10yr3d	NSLRWCD C37	BASE	278.51	8.61	18.50	0	0.31	0.00	21.64	0.00
10yr3d	NSLRWCD C37	BASE	278.76	8.60	18.50	0	0.31	0.00	21.64	0.00
10yr3d	NSLRWCD C37	BASE	279.01	8.60	18.50	0	0.31	0.00	21.65	0.00
10yr3d	NSLRWCD C37	BASE	279.26	8.60	18.50	0	0.31	0.00	21.66	0.00
10yr3d	NSLRWCD C37	BASE	279.51	8.60	18.50	0	0.31	0.00	21.66	0.00
10yr3d	NSLRWCD C37	BASE	279.76	8.59	18.50	0	0.30	0.00	21.67	0.00
10yr3d	NSLRWCD C37	BASE	280.01	8.59	18.50	0	0.30	0.00	21.67	0.00
10yr3d	NSLRWCD C37	BASE	280.26	8.59	18.50	0	0.30	0.00	21.68	0.00
10yr3d	NSLRWCD C37	BASE	280.51	8.59	18.50	0	0.30	0.00	21.69	0.00
10yr3d	NSLRWCD C37	BASE	280.76	8.58	18.50	0	0.30	0.00	21.69	0.00
10yr3d	NSLRWCD C37	BASE	281.01	8.58	18.50	0	0.30	0.00	21.70	0.00
10yr3d	NSLRWCD C37	BASE	281.26	8.58	18.50	0	0.30	0.00	21.71	0.00
10yr3d	NSLRWCD C37	BASE	281.51	8.58	18.50	0	0.30	0.00	21.71	0.00
10yr3d	NSLRWCD C37	BASE	281.76	8.57	18.50	0	0.30	0.00	21.72	0.00
10yr3d	NSLRWCD C37	BASE	282.01	8.57	18.50	0	0.30	0.00	21.72	0.00
10yr3d	NSLRWCD C37	BASE	282.26	8.57	18.50	0	0.30	0.00	21.73	0.00
10yr3d	NSLRWCD C37	BASE	282.51	8.57	18.50	0	0.30	0.00	21.74	0.00
10yr3d	NSLRWCD C37	BASE	282.76	8.56	18.50	0	0.30	0.00	21.74	0.00
10yr3d	NSLRWCD C37	BASE	283.01	8.56	18.50	0	0.30	0.00	21.75	0.00
10yr3d	NSLRWCD C37	BASE	283.26	8.56	18.50	0	0.30	0.00	21.75	0.00
10yr3d	NSLRWCD C37	BASE	283.51	8.56	18.50	0	0.30	0.00	21.76	0.00
10yr3d	NSLRWCD C37	BASE	283.76	8.55	18.50	0	0.30	0.00	21.77	0.00
10yr3d	NSLRWCD C37	BASE	284.01	8.55	18.50	0	0.30	0.00	21.77	0.00
10yr3d	NSLRWCD C37	BASE	284.26	8.55	18.50	0	0.30	0.00	21.78	0.00
10yr3d	NSLRWCD C37	BASE	284.51	8.55	18.50	0	0.30	0.00	21.79	0.00
10yr3d	NSLRWCD C37	BASE	284.76	8.54	18.50	0	0.30	0.00	21.79	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	285.01	8.54	18.50	0	0.29	0.00	21.80	0.00
10yr3d	NSLRWCD C37	BASE	285.26	8.54	18.50	0	0.29	0.00	21.80	0.00
10yr3d	NSLRWCD C37	BASE	285.51	8.54	18.50	0	0.29	0.00	21.81	0.00
10yr3d	NSLRWCD C37	BASE	285.76	8.53	18.50	0	0.29	0.00	21.82	0.00
10yr3d	NSLRWCD C37	BASE	286.01	8.53	18.50	0	0.29	0.00	21.82	0.00
10yr3d	NSLRWCD C37	BASE	286.26	8.53	18.50	0	0.29	0.00	21.83	0.00
10yr3d	NSLRWCD C37	BASE	286.51	8.53	18.50	0	0.29	0.00	21.83	0.00
10yr3d	NSLRWCD C37	BASE	286.76	8.52	18.50	0	0.29	0.00	21.84	0.00
10yr3d	NSLRWCD C37	BASE	287.01	8.52	18.50	0	0.29	0.00	21.85	0.00
10yr3d	NSLRWCD C37	BASE	287.26	8.52	18.50	0	0.29	0.00	21.85	0.00
10yr3d	NSLRWCD C37	BASE	287.51	8.52	18.50	0	0.29	0.00	21.86	0.00
10yr3d	NSLRWCD C37	BASE	287.76	8.51	18.50	0	0.29	0.00	21.86	0.00
10yr3d	NSLRWCD C37	BASE	288.01	8.51	18.50	0	0.29	0.00	21.87	0.00
10yr3d	NSLRWCD C37	BASE	288.26	8.51	18.50	0	0.29	0.00	21.88	0.00
10yr3d	NSLRWCD C37	BASE	288.51	8.50	18.50	0	0.29	0.00	21.88	0.00
10yr3d	NSLRWCD C37	BASE	288.76	8.50	18.50	0	0.29	0.00	21.89	0.00
10yr3d	NSLRWCD C37	BASE	289.01	8.50	18.50	0	0.29	0.00	21.89	0.00
10yr3d	NSLRWCD C37	BASE	289.26	8.50	18.50	0	0.29	0.00	21.90	0.00
10yr3d	NSLRWCD C37	BASE	289.51	8.49	18.50	0	0.29	0.00	21.91	0.00
10yr3d	NSLRWCD C37	BASE	289.76	8.49	18.50	0	0.29	0.00	21.91	0.00
10yr3d	NSLRWCD C37	BASE	290.01	8.49	18.50	0	0.29	0.00	21.92	0.00
10yr3d	NSLRWCD C37	BASE	290.26	8.49	18.50	0	0.29	0.00	21.92	0.00
10yr3d	NSLRWCD C37	BASE	290.51	8.48	18.50	0	0.28	0.00	21.93	0.00
10yr3d	NSLRWCD C37	BASE	290.76	8.48	18.50	0	0.28	0.00	21.94	0.00
10yr3d	NSLRWCD C37	BASE	291.01	8.48	18.50	0	0.28	0.00	21.94	0.00
10yr3d	NSLRWCD C37	BASE	291.26	8.48	18.50	0	0.28	0.00	21.95	0.00
10yr3d	NSLRWCD C37	BASE	291.51	8.47	18.50	0	0.28	0.00	21.95	0.00
10yr3d	NSLRWCD C37	BASE	291.76	8.47	18.50	0	0.28	0.00	21.96	0.00
10yr3d	NSLRWCD C37	BASE	292.01	8.47	18.50	0	0.28	0.00	21.96	0.00
10yr3d	NSLRWCD C37	BASE	292.26	8.47	18.50	0	0.28	0.00	21.97	0.00
10yr3d	NSLRWCD C37	BASE	292.51	8.46	18.50	0	0.28	0.00	21.98	0.00
10yr3d	NSLRWCD C37	BASE	292.76	8.46	18.50	0	0.28	0.00	21.98	0.00
10yr3d	NSLRWCD C37	BASE	293.01	8.46	18.50	0	0.28	0.00	21.99	0.00
10yr3d	NSLRWCD C37	BASE	293.26	8.46	18.50	0	0.28	0.00	21.99	0.00
10yr3d	NSLRWCD C37	BASE	293.51	8.45	18.50	0	0.28	0.00	22.00	0.00
10yr3d	NSLRWCD C37	BASE	293.76	8.45	18.50	0	0.28	0.00	22.01	0.00
10yr3d	NSLRWCD C37	BASE	294.01	8.45	18.50	0	0.28	0.00	22.01	0.00
10yr3d	NSLRWCD C37	BASE	294.26	8.45	18.50	0	0.28	0.00	22.02	0.00
10yr3d	NSLRWCD C37	BASE	294.51	8.44	18.50	0	0.28	0.00	22.02	0.00
10yr3d	NSLRWCD C37	BASE	294.76	8.44	18.50	0	0.28	0.00	22.03	0.00
10yr3d	NSLRWCD C37	BASE	295.01	8.44	18.50	0	0.28	0.00	22.03	0.00
10yr3d	NSLRWCD C37	BASE	295.26	8.44	18.50	0	0.28	0.00	22.04	0.00
10yr3d	NSLRWCD C37	BASE	295.51	8.43	18.50	0	0.28	0.00	22.05	0.00
10yr3d	NSLRWCD C37	BASE	295.76	8.43	18.50	0	0.28	0.00	22.05	0.00
10yr3d	NSLRWCD C37	BASE	296.01	8.43	18.50	0	0.27	0.00	22.06	0.00
10yr3d	NSLRWCD C37	BASE	296.26	8.43	18.50	0	0.27	0.00	22.06	0.00
10yr3d	NSLRWCD C37	BASE	296.51	8.42	18.50	0	0.27	0.00	22.07	0.00
10yr3d	NSLRWCD C37	BASE	296.76	8.42	18.50	0	0.27	0.00	22.07	0.00
10yr3d	NSLRWCD C37	BASE	297.01	8.42	18.50	0	0.27	0.00	22.08	0.00
10yr3d	NSLRWCD C37	BASE	297.26	8.42	18.50	0	0.27	0.00	22.08	0.00
10yr3d	NSLRWCD C37	BASE	297.51	8.41	18.50	0	0.27	0.00	22.09	0.00
10yr3d	NSLRWCD C37	BASE	297.76	8.41	18.50	0	0.27	0.00	22.10	0.00
10yr3d	NSLRWCD C37	BASE	298.01	8.41	18.50	0	0.27	0.00	22.10	0.00
10yr3d	NSLRWCD C37	BASE	298.26	8.41	18.50	0	0.27	0.00	22.11	0.00
10yr3d	NSLRWCD C37	BASE	298.51	8.40	18.50	0	0.27	0.00	22.11	0.00
10yr3d	NSLRWCD C37	BASE	298.76	8.40	18.50	0	0.27	0.00	22.12	0.00
10yr3d	NSLRWCD C37	BASE	299.01	8.40	18.50	0	0.27	0.00	22.12	0.00
10yr3d	NSLRWCD C37	BASE	299.26	8.40	18.50	0	0.27	0.00	22.13	0.00
10yr3d	NSLRWCD C37	BASE	299.51	8.39	18.50	0	0.27	0.00	22.14	0.00
10yr3d	NSLRWCD C37	BASE	299.76	8.39	18.50	0	0.27	0.00	22.14	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	300.01	8.39	18.50	0	0.27	0.00	22.15	0.00
10yr3d	NSLRWCD C37	BASE	300.26	8.39	18.50	0	0.27	0.00	22.15	0.00
10yr3d	NSLRWCD C37	BASE	300.51	8.38	18.50	0	0.27	0.00	22.16	0.00
10yr3d	NSLRWCD C37	BASE	300.76	8.38	18.50	0	0.27	0.00	22.16	0.00
10yr3d	NSLRWCD C37	BASE	301.01	8.38	18.50	0	0.27	0.00	22.17	0.00
10yr3d	NSLRWCD C37	BASE	301.26	8.38	18.50	0	0.26	0.00	22.17	0.00
10yr3d	NSLRWCD C37	BASE	301.51	8.37	18.50	0	0.26	0.00	22.18	0.00
10yr3d	NSLRWCD C37	BASE	301.76	8.37	18.50	0	0.26	0.00	22.18	0.00
10yr3d	NSLRWCD C37	BASE	302.01	8.37	18.50	0	0.26	0.00	22.19	0.00
10yr3d	NSLRWCD C37	BASE	302.26	8.37	18.50	0	0.26	0.00	22.20	0.00
10yr3d	NSLRWCD C37	BASE	302.51	8.36	18.50	0	0.26	0.00	22.20	0.00
10yr3d	NSLRWCD C37	BASE	302.76	8.36	18.50	0	0.26	0.00	22.21	0.00
10yr3d	NSLRWCD C37	BASE	303.01	8.36	18.50	0	0.26	0.00	22.21	0.00
10yr3d	NSLRWCD C37	BASE	303.26	8.36	18.50	0	0.26	0.00	22.22	0.00
10yr3d	NSLRWCD C37	BASE	303.51	8.35	18.50	0	0.26	0.00	22.22	0.00
10yr3d	NSLRWCD C37	BASE	303.76	8.35	18.50	0	0.26	0.00	22.23	0.00
10yr3d	NSLRWCD C37	BASE	304.01	8.35	18.50	0	0.26	0.00	22.23	0.00
10yr3d	NSLRWCD C37	BASE	304.26	8.35	18.50	0	0.26	0.00	22.24	0.00
10yr3d	NSLRWCD C37	BASE	304.51	8.34	18.50	0	0.26	0.00	22.24	0.00
10yr3d	NSLRWCD C37	BASE	304.76	8.34	18.50	0	0.26	0.00	22.25	0.00
10yr3d	NSLRWCD C37	BASE	305.01	8.34	18.50	0	0.26	0.00	22.25	0.00
10yr3d	NSLRWCD C37	BASE	305.26	8.34	18.50	0	0.26	0.00	22.26	0.00
10yr3d	NSLRWCD C37	BASE	305.51	8.33	18.50	0	0.26	0.00	22.27	0.00
10yr3d	NSLRWCD C37	BASE	305.76	8.33	18.50	0	0.26	0.00	22.27	0.00
10yr3d	NSLRWCD C37	BASE	306.01	8.33	18.50	0	0.26	0.00	22.28	0.00
10yr3d	NSLRWCD C37	BASE	306.26	8.32	18.50	0	0.26	0.00	22.28	0.00
10yr3d	NSLRWCD C37	BASE	306.51	8.32	18.50	0	0.26	0.00	22.29	0.00
10yr3d	NSLRWCD C37	BASE	306.76	8.32	18.50	0	0.25	0.00	22.29	0.00
10yr3d	NSLRWCD C37	BASE	307.01	8.32	18.50	0	0.25	0.00	22.30	0.00
10yr3d	NSLRWCD C37	BASE	307.26	8.31	18.50	0	0.25	0.00	22.30	0.00
10yr3d	NSLRWCD C37	BASE	307.51	8.31	18.50	0	0.25	0.00	22.31	0.00
10yr3d	NSLRWCD C37	BASE	307.76	8.31	18.50	0	0.25	0.00	22.31	0.00
10yr3d	NSLRWCD C37	BASE	308.01	8.31	18.50	0	0.25	0.00	22.32	0.00
10yr3d	NSLRWCD C37	BASE	308.26	8.30	18.50	0	0.25	0.00	22.32	0.00
10yr3d	NSLRWCD C37	BASE	308.51	8.30	18.50	0	0.25	0.00	22.33	0.00
10yr3d	NSLRWCD C37	BASE	308.76	8.30	18.50	0	0.25	0.00	22.33	0.00
10yr3d	NSLRWCD C37	BASE	309.01	8.30	18.50	0	0.25	0.00	22.34	0.00
10yr3d	NSLRWCD C37	BASE	309.26	8.29	18.50	0	0.25	0.00	22.34	0.00
10yr3d	NSLRWCD C37	BASE	309.51	8.29	18.50	0	0.25	0.00	22.35	0.00
10yr3d	NSLRWCD C37	BASE	309.76	8.29	18.50	0	0.25	0.00	22.35	0.00
10yr3d	NSLRWCD C37	BASE	310.01	8.29	18.50	0	0.25	0.00	22.36	0.00
10yr3d	NSLRWCD C37	BASE	310.26	8.28	18.50	0	0.25	0.00	22.36	0.00
10yr3d	NSLRWCD C37	BASE	310.51	8.28	18.50	0	0.25	0.00	22.37	0.00
10yr3d	NSLRWCD C37	BASE	310.76	8.28	18.50	0	0.25	0.00	22.37	0.00
10yr3d	NSLRWCD C37	BASE	311.01	8.28	18.50	0	0.25	0.00	22.38	0.00
10yr3d	NSLRWCD C37	BASE	311.26	8.27	18.50	0	0.25	0.00	22.38	0.00
10yr3d	NSLRWCD C37	BASE	311.51	8.27	18.50	0	0.25	0.00	22.39	0.00
10yr3d	NSLRWCD C37	BASE	311.76	8.27	18.50	0	0.25	0.00	22.40	0.00
10yr3d	NSLRWCD C37	BASE	312.01	8.27	18.50	0	0.24	0.00	22.40	0.00
10yr3d	NSLRWCD C37	BASE	312.26	8.26	18.50	0	0.24	0.00	22.41	0.00
10yr3d	NSLRWCD C37	BASE	312.51	8.26	18.50	0	0.24	0.00	22.41	0.00
10yr3d	NSLRWCD C37	BASE	312.76	8.26	18.50	0	0.24	0.00	22.42	0.00
10yr3d	NSLRWCD C37	BASE	313.01	8.26	18.50	0	0.24	0.00	22.42	0.00
10yr3d	NSLRWCD C37	BASE	313.26	8.25	18.50	0	0.24	0.00	22.43	0.00
10yr3d	NSLRWCD C37	BASE	313.51	8.25	18.50	0	0.24	0.00	22.43	0.00
10yr3d	NSLRWCD C37	BASE	313.76	8.25	18.50	0	0.24	0.00	22.44	0.00
10yr3d	NSLRWCD C37	BASE	314.01	8.25	18.50	0	0.24	0.00	22.44	0.00
10yr3d	NSLRWCD C37	BASE	314.26	8.24	18.50	0	0.24	0.00	22.45	0.00
10yr3d	NSLRWCD C37	BASE	314.51	8.24	18.50	0	0.24	0.00	22.45	0.00
10yr3d	NSLRWCD C37	BASE	314.76	8.24	18.50	0	0.24	0.00	22.46	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	315.01	8.24	18.50	0	0.24	0.00	22.46	0.00
10yr3d	NSLRWCD C37	BASE	315.26	8.23	18.50	0	0.24	0.00	22.47	0.00
10yr3d	NSLRWCD C37	BASE	315.51	8.23	18.50	0	0.24	0.00	22.47	0.00
10yr3d	NSLRWCD C37	BASE	315.76	8.23	18.50	0	0.24	0.00	22.48	0.00
10yr3d	NSLRWCD C37	BASE	316.01	8.23	18.50	0	0.24	0.00	22.48	0.00
10yr3d	NSLRWCD C37	BASE	316.26	8.22	18.50	0	0.24	0.00	22.48	0.00
10yr3d	NSLRWCD C37	BASE	316.51	8.22	18.50	0	0.24	0.00	22.49	0.00
10yr3d	NSLRWCD C37	BASE	316.76	8.22	18.50	0	0.24	0.00	22.49	0.00
10yr3d	NSLRWCD C37	BASE	317.01	8.22	18.50	0	0.24	0.00	22.50	0.00
10yr3d	NSLRWCD C37	BASE	317.26	8.21	18.50	0	0.24	0.00	22.50	0.00
10yr3d	NSLRWCD C37	BASE	317.51	8.21	18.50	0	0.23	0.00	22.51	0.00
10yr3d	NSLRWCD C37	BASE	317.76	8.21	18.50	0	0.23	0.00	22.51	0.00
10yr3d	NSLRWCD C37	BASE	318.01	8.21	18.50	0	0.23	0.00	22.52	0.00
10yr3d	NSLRWCD C37	BASE	318.26	8.20	18.50	0	0.23	0.00	22.52	0.00
10yr3d	NSLRWCD C37	BASE	318.51	8.20	18.50	0	0.23	0.00	22.53	0.00
10yr3d	NSLRWCD C37	BASE	318.76	8.20	18.50	0	0.23	0.00	22.53	0.00
10yr3d	NSLRWCD C37	BASE	319.01	8.20	18.50	0	0.23	0.00	22.54	0.00
10yr3d	NSLRWCD C37	BASE	319.26	8.19	18.50	0	0.23	0.00	22.54	0.00
10yr3d	NSLRWCD C37	BASE	319.51	8.19	18.50	0	0.23	0.00	22.55	0.00
10yr3d	NSLRWCD C37	BASE	319.76	8.19	18.50	0	0.23	0.00	22.55	0.00
10yr3d	NSLRWCD C37	BASE	320.01	8.19	18.50	0	0.23	0.00	22.56	0.00
10yr3d	NSLRWCD C37	BASE	320.26	8.18	18.50	0	0.23	0.00	22.56	0.00
10yr3d	NSLRWCD C37	BASE	320.51	8.18	18.50	0	0.23	0.00	22.57	0.00
10yr3d	NSLRWCD C37	BASE	320.76	8.18	18.50	0	0.23	0.00	22.57	0.00
10yr3d	NSLRWCD C37	BASE	321.01	8.18	18.50	0	0.23	0.00	22.58	0.00
10yr3d	NSLRWCD C37	BASE	321.26	8.17	18.50	0	0.23	0.00	22.58	0.00
10yr3d	NSLRWCD C37	BASE	321.51	8.17	18.50	0	0.23	0.00	22.59	0.00
10yr3d	NSLRWCD C37	BASE	321.76	8.17	18.50	0	0.23	0.00	22.59	0.00
10yr3d	NSLRWCD C37	BASE	322.01	8.17	18.50	0	0.23	0.00	22.59	0.00
10yr3d	NSLRWCD C37	BASE	322.26	8.16	18.50	0	0.23	0.00	22.60	0.00
10yr3d	NSLRWCD C37	BASE	322.51	8.16	18.50	0	0.23	0.00	22.60	0.00
10yr3d	NSLRWCD C37	BASE	322.76	8.16	18.50	0	0.23	0.00	22.61	0.00
10yr3d	NSLRWCD C37	BASE	323.01	8.16	18.50	0	0.22	0.00	22.61	0.00
10yr3d	NSLRWCD C37	BASE	323.26	8.15	18.50	0	0.22	0.00	22.62	0.00
10yr3d	NSLRWCD C37	BASE	323.51	8.15	18.50	0	0.22	0.00	22.62	0.00
10yr3d	NSLRWCD C37	BASE	323.76	8.15	18.50	0	0.22	0.00	22.63	0.00
10yr3d	NSLRWCD C37	BASE	324.01	8.14	18.50	0	0.22	0.00	22.63	0.00
10yr3d	NSLRWCD C37	BASE	324.26	8.14	18.50	0	0.22	0.00	22.64	0.00
10yr3d	NSLRWCD C37	BASE	324.51	8.14	18.50	0	0.22	0.00	22.64	0.00
10yr3d	NSLRWCD C37	BASE	324.76	8.14	18.50	0	0.22	0.00	22.65	0.00
10yr3d	NSLRWCD C37	BASE	325.01	8.13	18.50	0	0.22	0.00	22.65	0.00
10yr3d	NSLRWCD C37	BASE	325.26	8.13	18.50	0	0.22	0.00	22.65	0.00
10yr3d	NSLRWCD C37	BASE	325.51	8.13	18.50	0	0.22	0.00	22.66	0.00
10yr3d	NSLRWCD C37	BASE	325.76	8.13	18.50	0	0.22	0.00	22.66	0.00
10yr3d	NSLRWCD C37	BASE	326.01	8.12	18.50	0	0.22	0.00	22.67	0.00
10yr3d	NSLRWCD C37	BASE	326.26	8.12	18.50	0	0.22	0.00	22.67	0.00
10yr3d	NSLRWCD C37	BASE	326.51	8.12	18.50	0	0.22	0.00	22.68	0.00
10yr3d	NSLRWCD C37	BASE	326.76	8.12	18.50	0	0.22	0.00	22.68	0.00
10yr3d	NSLRWCD C37	BASE	327.01	8.11	18.50	0	0.22	0.00	22.69	0.00
10yr3d	NSLRWCD C37	BASE	327.26	8.11	18.50	0	0.22	0.00	22.69	0.00
10yr3d	NSLRWCD C37	BASE	327.51	8.11	18.50	0	0.22	0.00	22.70	0.00
10yr3d	NSLRWCD C37	BASE	327.76	8.11	18.50	0	0.22	0.00	22.70	0.00
10yr3d	NSLRWCD C37	BASE	328.01	8.10	18.50	0	0.22	0.00	22.70	0.00
10yr3d	NSLRWCD C37	BASE	328.26	8.10	18.50	0	0.21	0.00	22.71	0.00
10yr3d	NSLRWCD C37	BASE	328.51	8.10	18.50	0	0.21	0.00	22.71	0.00
10yr3d	NSLRWCD C37	BASE	328.76	8.10	18.50	0	0.21	0.00	22.72	0.00
10yr3d	NSLRWCD C37	BASE	329.01	8.09	18.50	0	0.21	0.00	22.72	0.00
10yr3d	NSLRWCD C37	BASE	329.26	8.09	18.50	0	0.21	0.00	22.73	0.00
10yr3d	NSLRWCD C37	BASE	329.51	8.09	18.50	0	0.21	0.00	22.73	0.00
10yr3d	NSLRWCD C37	BASE	329.76	8.09	18.50	0	0.21	0.00	22.74	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	330.01	8.08	18.50	0	0.21	0.00	22.74	0.00
10yr3d	NSLRWCD C37	BASE	330.26	8.08	18.50	0	0.21	0.00	22.74	0.00
10yr3d	NSLRWCD C37	BASE	330.51	8.08	18.50	0	0.21	0.00	22.75	0.00
10yr3d	NSLRWCD C37	BASE	330.76	8.08	18.50	0	0.21	0.00	22.75	0.00
10yr3d	NSLRWCD C37	BASE	331.01	8.07	18.50	0	0.21	0.00	22.76	0.00
10yr3d	NSLRWCD C37	BASE	331.26	8.07	18.50	0	0.21	0.00	22.76	0.00
10yr3d	NSLRWCD C37	BASE	331.51	8.07	18.50	0	0.21	0.00	22.77	0.00
10yr3d	NSLRWCD C37	BASE	331.76	8.07	18.50	0	0.21	0.00	22.77	0.00
10yr3d	NSLRWCD C37	BASE	332.01	8.06	18.50	0	0.21	0.00	22.77	0.00
10yr3d	NSLRWCD C37	BASE	332.26	8.06	18.50	0	0.21	0.00	22.78	0.00
10yr3d	NSLRWCD C37	BASE	332.51	8.06	18.50	0	0.21	0.00	22.78	0.00
10yr3d	NSLRWCD C37	BASE	332.76	8.06	18.50	0	0.21	0.00	22.79	0.00
10yr3d	NSLRWCD C37	BASE	333.01	8.05	18.50	0	0.21	0.00	22.79	0.00
10yr3d	NSLRWCD C37	BASE	333.26	8.05	18.50	0	0.21	0.00	22.80	0.00
10yr3d	NSLRWCD C37	BASE	333.51	8.05	18.50	0	0.20	0.00	22.80	0.00
10yr3d	NSLRWCD C37	BASE	333.76	8.05	18.50	0	0.20	0.00	22.80	0.00
10yr3d	NSLRWCD C37	BASE	334.01	8.04	18.50	0	0.20	0.00	22.81	0.00
10yr3d	NSLRWCD C37	BASE	334.26	8.04	18.50	0	0.20	0.00	22.81	0.00
10yr3d	NSLRWCD C37	BASE	334.51	8.04	18.50	0	0.20	0.00	22.82	0.00
10yr3d	NSLRWCD C37	BASE	334.76	8.04	18.50	0	0.20	0.00	22.82	0.00
10yr3d	NSLRWCD C37	BASE	335.01	8.03	18.50	0	0.20	0.00	22.83	0.00
10yr3d	NSLRWCD C37	BASE	335.26	8.03	18.50	0	0.20	0.00	22.83	0.00
10yr3d	NSLRWCD C37	BASE	335.51	8.03	18.50	0	0.20	0.00	22.83	0.00
10yr3d	NSLRWCD C37	BASE	335.76	8.03	18.50	0	0.20	0.00	22.84	0.00
10yr3d	NSLRWCD C37	BASE	336.01	8.02	18.50	0	0.20	0.00	22.84	0.00
10yr3d	NSLRWCD C37	BASE	336.26	8.02	18.50	0	0.20	0.00	22.85	0.00
10yr3d	NSLRWCD C37	BASE	336.51	8.02	18.50	0	0.20	0.00	22.85	0.00
10yr3d	NSLRWCD C37	BASE	336.76	8.02	18.50	0	0.20	0.00	22.85	0.00
10yr3d	NSLRWCD C37	BASE	337.01	8.01	18.50	0	0.20	0.00	22.86	0.00
10yr3d	NSLRWCD C37	BASE	337.26	8.01	18.50	0	0.19	0.00	22.86	0.00
10yr3d	NSLRWCD C37	BASE	337.51	8.01	18.50	0	0.19	0.00	22.87	0.00
10yr3d	NSLRWCD C37	BASE	337.76	8.01	18.50	0	0.19	0.00	22.87	0.00
10yr3d	NSLRWCD C37	BASE	338.01	8.00	18.50	0	0.19	0.00	22.87	0.00
10yr3d	NSLRWCD C37	BASE	338.26	8.00	18.50	0	0.19	0.00	22.88	0.00
10yr3d	NSLRWCD C37	BASE	338.51	8.00	18.50	0	0.19	0.00	22.88	0.00
10yr3d	NSLRWCD C37	BASE	338.76	8.00	18.50	0	0.19	0.00	22.89	0.00
10yr3d	NSLRWCD C37	BASE	339.01	7.99	18.50	0	0.19	0.00	22.89	0.00
10yr3d	NSLRWCD C37	BASE	339.26	7.99	18.50	0	0.19	0.00	22.89	0.00
10yr3d	NSLRWCD C37	BASE	339.51	7.99	18.50	0	0.19	0.00	22.90	0.00
10yr3d	NSLRWCD C37	BASE	339.76	7.99	18.50	0	0.19	0.00	22.90	0.00
10yr3d	NSLRWCD C37	BASE	340.01	7.98	18.50	0	0.19	0.00	22.91	0.00
10yr3d	NSLRWCD C37	BASE	340.26	7.98	18.50	0	0.19	0.00	22.91	0.00
10yr3d	NSLRWCD C37	BASE	340.51	7.98	18.50	0	0.18	0.00	22.91	0.00
10yr3d	NSLRWCD C37	BASE	340.76	7.98	18.50	0	0.18	0.00	22.92	0.00
10yr3d	NSLRWCD C37	BASE	341.01	7.97	18.50	0	0.18	0.00	22.92	0.00
10yr3d	NSLRWCD C37	BASE	341.26	7.97	18.50	0	0.18	0.00	22.92	0.00
10yr3d	NSLRWCD C37	BASE	341.51	7.97	18.50	0	0.18	0.00	22.93	0.00
10yr3d	NSLRWCD C37	BASE	341.76	7.96	18.50	0	0.18	0.00	22.93	0.00
10yr3d	NSLRWCD C37	BASE	342.01	7.96	18.50	0	0.18	0.00	22.94	0.00
10yr3d	NSLRWCD C37	BASE	342.26	7.96	18.50	0	0.18	0.00	22.94	0.00
10yr3d	NSLRWCD C37	BASE	342.51	7.96	18.50	0	0.18	0.00	22.94	0.00
10yr3d	NSLRWCD C37	BASE	342.76	7.95	18.50	0	0.18	0.00	22.95	0.00
10yr3d	NSLRWCD C37	BASE	343.01	7.95	18.50	0	0.18	0.00	22.95	0.00
10yr3d	NSLRWCD C37	BASE	343.26	7.95	18.50	0	0.18	0.00	22.95	0.00
10yr3d	NSLRWCD C37	BASE	343.51	7.95	18.50	0	0.18	0.00	22.96	0.00
10yr3d	NSLRWCD C37	BASE	343.76	7.94	18.50	0	0.18	0.00	22.96	0.00
10yr3d	NSLRWCD C37	BASE	344.01	7.94	18.50	0	0.17	0.00	22.96	0.00
10yr3d	NSLRWCD C37	BASE	344.26	7.94	18.50	0	0.17	0.00	22.97	0.00
10yr3d	NSLRWCD C37	BASE	344.51	7.94	18.50	0	0.17	0.00	22.97	0.00
10yr3d	NSLRWCD C37	BASE	344.76	7.93	18.50	0	0.17	0.00	22.98	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	345.01	7.93	18.50	0	0.17	0.00	22.98	0.00
10yr3d	NSLRWCD C37	BASE	345.26	7.93	18.50	0	0.17	0.00	22.98	0.00
10yr3d	NSLRWCD C37	BASE	345.51	7.93	18.50	0	0.17	0.00	22.99	0.00
10yr3d	NSLRWCD C37	BASE	345.76	7.92	18.50	0	0.17	0.00	22.99	0.00
10yr3d	NSLRWCD C37	BASE	346.01	7.92	18.50	0	0.17	0.00	22.99	0.00
10yr3d	NSLRWCD C37	BASE	346.26	7.92	18.50	0	0.17	0.00	23.00	0.00
10yr3d	NSLRWCD C37	BASE	346.51	7.92	18.50	0	0.17	0.00	23.00	0.00
10yr3d	NSLRWCD C37	BASE	346.76	7.91	18.50	0	0.17	0.00	23.00	0.00
10yr3d	NSLRWCD C37	BASE	347.01	7.91	18.50	0	0.17	0.00	23.01	0.00
10yr3d	NSLRWCD C37	BASE	347.26	7.91	18.50	0	0.17	0.00	23.01	0.00
10yr3d	NSLRWCD C37	BASE	347.51	7.91	18.50	0	0.17	0.00	23.01	0.00
10yr3d	NSLRWCD C37	BASE	347.76	7.90	18.50	0	0.16	0.00	23.02	0.00
10yr3d	NSLRWCD C37	BASE	348.01	7.90	18.50	0	0.16	0.00	23.02	0.00
10yr3d	NSLRWCD C37	BASE	348.26	7.90	18.50	0	0.16	0.00	23.02	0.00
10yr3d	NSLRWCD C37	BASE	348.51	7.90	18.50	0	0.16	0.00	23.03	0.00
10yr3d	NSLRWCD C37	BASE	348.76	7.89	18.50	0	0.16	0.00	23.03	0.00
10yr3d	NSLRWCD C37	BASE	349.01	7.89	18.50	0	0.16	0.00	23.03	0.00
10yr3d	NSLRWCD C37	BASE	349.26	7.89	18.50	0	0.16	0.00	23.04	0.00
10yr3d	NSLRWCD C37	BASE	349.51	7.89	18.50	0	0.16	0.00	23.04	0.00
10yr3d	NSLRWCD C37	BASE	349.76	7.88	18.50	0	0.16	0.00	23.04	0.00
10yr3d	NSLRWCD C37	BASE	350.01	7.88	18.50	0	0.16	0.00	23.05	0.00
10yr3d	NSLRWCD C37	BASE	350.26	7.88	18.50	0	0.16	0.00	23.05	0.00
10yr3d	NSLRWCD C37	BASE	350.51	7.88	18.50	0	0.16	0.00	23.05	0.00
10yr3d	NSLRWCD C37	BASE	350.76	7.87	18.50	0	0.16	0.00	23.06	0.00
10yr3d	NSLRWCD C37	BASE	351.01	7.87	18.50	0	0.16	0.00	23.06	0.00
10yr3d	NSLRWCD C37	BASE	351.26	7.87	18.50	0	0.16	0.00	23.06	0.00
10yr3d	NSLRWCD C37	BASE	351.51	7.87	18.50	0	0.15	0.00	23.07	0.00
10yr3d	NSLRWCD C37	BASE	351.76	7.86	18.50	0	0.15	0.00	23.07	0.00
10yr3d	NSLRWCD C37	BASE	352.01	7.86	18.50	0	0.15	0.00	23.07	0.00
10yr3d	NSLRWCD C37	BASE	352.26	7.86	18.50	0	0.15	0.00	23.08	0.00
10yr3d	NSLRWCD C37	BASE	352.51	7.86	18.50	0	0.15	0.00	23.08	0.00
10yr3d	NSLRWCD C37	BASE	352.76	7.85	18.50	0	0.15	0.00	23.08	0.00
10yr3d	NSLRWCD C37	BASE	353.01	7.85	18.50	0	0.15	0.00	23.09	0.00
10yr3d	NSLRWCD C37	BASE	353.26	7.85	18.50	0	0.15	0.00	23.09	0.00
10yr3d	NSLRWCD C37	BASE	353.51	7.85	18.50	0	0.15	0.00	23.09	0.00
10yr3d	NSLRWCD C37	BASE	353.76	7.84	18.50	0	0.15	0.00	23.10	0.00
10yr3d	NSLRWCD C37	BASE	354.01	7.84	18.50	0	0.15	0.00	23.10	0.00
10yr3d	NSLRWCD C37	BASE	354.26	7.84	18.50	0	0.15	0.00	23.10	0.00
10yr3d	NSLRWCD C37	BASE	354.51	7.84	18.50	0	0.15	0.00	23.10	0.00
10yr3d	NSLRWCD C37	BASE	354.76	7.83	18.50	0	0.15	0.00	23.11	0.00
10yr3d	NSLRWCD C37	BASE	355.01	7.83	18.50	0	0.15	0.00	23.11	0.00
10yr3d	NSLRWCD C37	BASE	355.26	7.83	18.50	0	0.15	0.00	23.11	0.00
10yr3d	NSLRWCD C37	BASE	355.51	7.83	18.50	0	0.15	0.00	23.12	0.00
10yr3d	NSLRWCD C37	BASE	355.76	7.82	18.50	0	0.15	0.00	23.12	0.00
10yr3d	NSLRWCD C37	BASE	356.01	7.82	18.50	0	0.15	0.00	23.12	0.00
10yr3d	NSLRWCD C37	BASE	356.26	7.82	18.50	0	0.15	0.00	23.13	0.00
10yr3d	NSLRWCD C37	BASE	356.51	7.82	18.50	0	0.15	0.00	23.13	0.00
10yr3d	NSLRWCD C37	BASE	356.76	7.81	18.50	0	0.15	0.00	23.13	0.00
10yr3d	NSLRWCD C37	BASE	357.01	7.81	18.50	0	0.15	0.00	23.14	0.00
10yr3d	NSLRWCD C37	BASE	357.26	7.81	18.50	0	0.15	0.00	23.14	0.00
10yr3d	NSLRWCD C37	BASE	357.51	7.81	18.50	0	0.15	0.00	23.14	0.00
10yr3d	NSLRWCD C37	BASE	357.76	7.80	18.50	0	0.15	0.00	23.14	0.00
10yr3d	NSLRWCD C37	BASE	358.01	7.80	18.50	0	0.15	0.00	23.15	0.00
10yr3d	NSLRWCD C37	BASE	358.26	7.80	18.50	0	0.15	0.00	23.15	0.00
10yr3d	NSLRWCD C37	BASE	358.51	7.80	18.50	0	0.14	0.00	23.15	0.00
10yr3d	NSLRWCD C37	BASE	358.76	7.79	18.50	0	0.14	0.00	23.16	0.00
10yr3d	NSLRWCD C37	BASE	359.01	7.79	18.50	0	0.14	0.00	23.16	0.00
10yr3d	NSLRWCD C37	BASE	359.26	7.79	18.50	0	0.14	0.00	23.16	0.00
10yr3d	NSLRWCD C37	BASE	359.51	7.79	18.50	0	0.14	0.00	23.17	0.00
10yr3d	NSLRWCD C37	BASE	359.76	7.78	18.50	0	0.14	0.00	23.17	0.00

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10yr3d	NSLRWCD C37	BASE	360.01	7.78	18.50	0	0.14	0.00	23.17	0.00
10yr3d	NSLRWCD C37	BASE	360.01	7.78	18.50	0	0.14	0.00	23.17	0.00

Appendix E – Net Improvement Analysis

ENGINEERING DESIGN & CONSTRUCTION, INC
CIVIL ENGINEERS & SURVEYORS SPECIALIZING IN LAND DEVELOPMENT

10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
772-462-2455

GENERAL SITE INFORMATION: V 8.6 | GO TO INTRODUCTION PAGE | 6/18/2018 | Blue Numbers = Input data | Red Numbers = Calculated or Carryover

Select the appropriate Meteorological Zone, input the appropriate Mean Annual Rainfall amount and select the type of analysis

NAME OF PROJECT: Camping World

HELP Rainfall

VIEW ZONE MAP

Meteorological Zone (Please use zone map): CLICK ON CELL BELOW TO SELECT → Zone 5

Mean Annual Rainfall (Please use rainfall map): 55.00 Inches

VIEW MEAN ANNUAL RAINFALL MAP

Type of analysis: CLICK ON CELL BELOW TO SELECT → Net improvement

Treatment efficiency (N, P) (ex 80 70 (no decimal points) **use only for specified removal efficiency**): % %

GO TO WATERSHED CHARACTERISTICS

Select the STORMWATER TREATMENT ANALYSIS Button below to begin analyzing the effectiveness of Best Management Practices.

Model documentation and example problems.

STORMWATER TREATMENT ANALYSIS

Systems available for analysis:
Retention Basin with option for calculating effluent concentration
Wet Detention
Exfiltration Trench
Pervious Pavement
Stormwater Harvesting
Biofiltration
Greenroof
Rainwater Harvesting
Managed Aquatic Plants Detention
Vegetated Natural Buffer
Vegetated Filter Strip
Swale
Rain Garden
Tree Well
Lined reuse pond
User Defined BMP

There is a user's manual for the BMPTRAINS model. It can be downloaded from www.stormwater.ucf.edu. The results from the example problems shown in the manual however may not reflect current model results due to ongoing updates of the model.

RESET INPUT FOR STORMWATER TREATMENT ANALYSIS

METHODOLOGY FOR CALCULATING REQUIRED TREATMENT EFFICIENCY

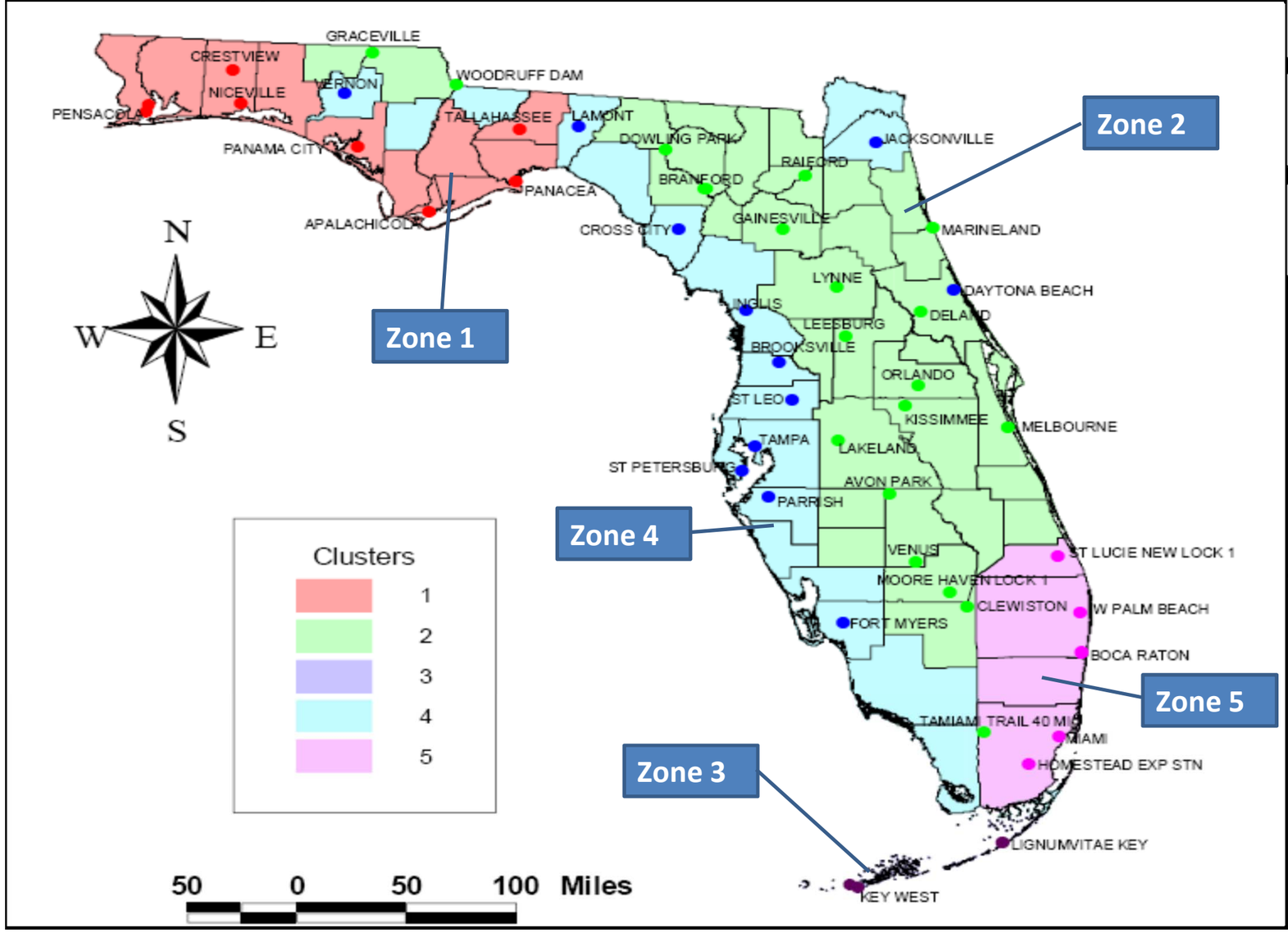
METHODOLOGY FOR RETENTION SYSTEMS

METHODOLOGY FOR WET DETENTION SYSTEMS

METHODOLOGY FOR GREENROOF SYSTEMS

METHODOLOGY FOR WATER HARVESTING SYSTEMS

ZONE MAP	DESIGNATED METEOROLOGICAL REGIONS (ZONES) IN FLORIDA



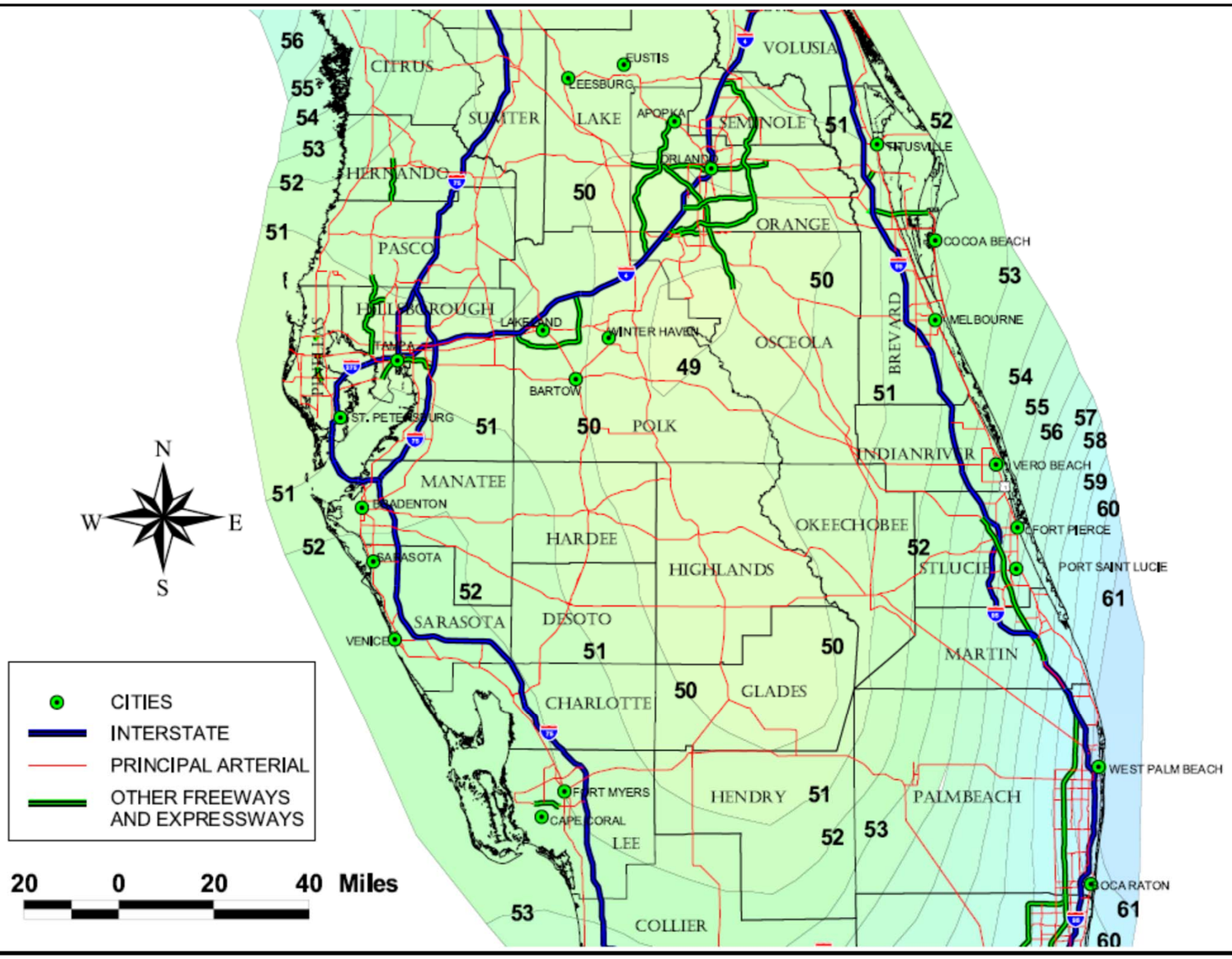
GO TO GENERAL SITE INFORMATION

GO TO STORMWATER HARVESTING SYSTEM

GO TO RAINWATER HARVESTING SYSTEM

Source: ***Evaluation of Current Stormwater Design Criteria within the State of Florida*** dated June 2007 by Harvey H. Harper, P.E., PhD., available at: http://www.dep.state.fl.us/water/nonpoint/docs/nonpoint/SW_TreatmentReportFinal_71907.pdf

MEAN ANNUAL RAINFALL MAP



Isopleths of Mean Annual Precipitation in Florida from 1971-2000.

Source: ***Evaluation of Current Stormwater Design Criteria within the State of Florida*** dated June 2007 by Harvey H. Harper, P.E., PhD., available at: http://www.dep.state.fl.us/water/nonpoint/docs/nonpoint/SW_TreatmentReportFinal_71907.pdf

GO TO GENERAL SITE

GO TO MAIN MAP

WATERSHED CHARACTERISTICS V 8.6

GO TO STORMWATER TREATMENT ANALYSIS

Blue Numbers = Input data
Red Numbers = Calculated

LAND USES/EMC

SELECT CATCHMENT CONFIGURATION 6/18/2018

CLICK ON CELL BELOW TO SELECT CONFIGURATION

B - 2 Catchment-Series

VIEW CATCHMENT CONFIGURATION

For comingling, the off-site catchment must be upstream. The delay is only for retention BMPs and must be used in hours as measured by the time of concentration at a one inch/hour rain

COMINGLING | MULTI-LAND USE

GO TO GENERAL SITE INFORMATION PAGE

VIEW AVERAGE ANNUAL RUNOFF "C" Factor

VIEW EMC & FLUCCS

GO TO GIS LANDUSE DATA

CATCHMENT NO.1 NAME: Existing Offsite

Delay [hrs] | max delay = 15 hrs.

Pre-development land use:	CLICK ON CELL BELOW TO SELECT: Agricultural - Citrus: TN=2.240 TP=0.183
with default EMCs	
Post-development land use:	CLICK ON CELL BELOW TO SELECT: Agricultural - Citrus: TN=2.240 TP=0.183
with default EMCs	

OVERWRITE DEFAULT CONCENTRATIONS USING:

	PRE:	POST:
EMC(N):	mg/L	mg/L
EMC(P):	mg/L	mg/L

USE DEFAULT CONCENTRATIONS

Total pre-development catchment area:	16.030	AC	Average annual pre runoff volume:	7.385 ac-ft/year
Total post-development catchment or for BMP analysis:	16.030	AC	Average annual post runoff volume (note no BMP area):	7.385 ac-ft/year
Pre-development Non DCIA CN:	64.00		Pre-development Annual Mass Loading - **Nitrogen:**	20.402 kg/year
Pre-development DCIA percentage:	4.13	%	Pre-development Annual Mass Loading - **Phosphorus:**	1.667 kg/year
Post-development Non DCIA CN:	64.00		Post-development Annual Mass Loading - **Nitrogen:**	20.402 kg/year
Post-development DCIA percentage:	4.13	%	Post-development Annual Mass Loading - **Phosphorus:**	1.667 kg/year
Estimated BMP Area (No loading from this area)	0.000	AC		

CATCHMENT NO.2 NAME: Camping World & Outparcel

Pre-development land use:	CLICK ON CELL BELOW TO SELECT: Agricultural - Citrus: TN=2.240 TP=0.183
with default EMCs	
Post-development land use:	CLICK ON CELL BELOW TO SELECT: Low-Intensity Commercial: TN=1.13 TP=0.188
with default EMCs	

OVERWRITE DEFAULT CONCENTRATIONS:

	PRE:	POST:
EMC(N):	mg/L	mg/L
EMC(P):	mg/L	mg/L

USE DEFAULT CONCENTRATIONS

Total pre-development catchment area:	28.970	AC	Average annual pre runoff volume:	11.716 ac-ft/year
Total post-development catchment or BMP analysis area:	28.970	AC	Average annual post runoff volume (note no BMP area):	48.436 ac-ft/year
Pre-development Non DCIA CN:	64.00		Pre-development Annual Mass Loading - **Nitrogen:**	32.365 kg/year
Pre-development DCIA percentage:	2.48	%	Pre-development Annual Mass Loading - **Phosphorus:**	2.644 kg/year
Post-development Non DCIA CN:	94.00		Post-development Annual Mass Loading - **Nitrogen:**	67.500 kg/year
Post-development DCIA percentage:	1.86	%	Post-development Annual Mass Loading - **Phosphorus:**	11.230 kg/year
Estimated BMP Area (No loading from this area)	3.927	AC		

CATCHMENT NO.3 NAME:

Pre-development land use:	CLICK ON CELL BELOW TO SELECT
with default EMCs	
Post-development land use:	CLICK ON CELL BELOW TO SELECT
with default EMCs	

OVERWRITE DEFAULT CONCENTRATIONS:

	PRE:	POST:
EMC(N):	mg/L	mg/L
EMC(P):	mg/L	mg/L

USE DEFAULT CONCENTRATIONS

Total pre-development catchment area:		AC	Average annual pre runoff volume:	ac-ft/year
Total post-development catchment or BMP analysis area:		AC	Average annual post runoff volume (note no BMP area):	ac-ft/year
Pre-development Non DCIA CN:			Pre-development Annual Mass Loading - **Nitrogen:**	kg/year
Pre-development DCIA percentage:		%	Pre-development Annual Mass Loading - **Phosphorus:**	kg/year
Post-development Non DCIA CN:			Post-development Annual Mass Loading - **Nitrogen:**	kg/year
Post-development DCIA percentage:		%	Post-development Annual Mass Loading - **Phosphorus:**	kg/year
Estimated BMP Area (no loading from this area)		AC		

CATCHMENT NO.4 NAME:

Pre-development land use:	CLICK ON CELL BELOW TO SELECT
with default EMCs	
Post-development land use:	CLICK ON CELL BELOW TO SELECT
with default EMCs	

OVERWRITE DEFAULT CONCENTRATIONS:

	PRE:	POST:
EMC(N):	mg/L	mg/L
EMC(P):	mg/L	mg/L

USE DEFAULT CONCENTRATIONS

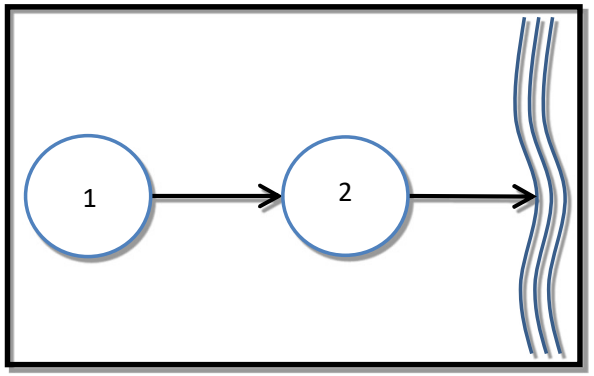
Total pre-development catchment area:		AC	Average annual pre runoff volume:	ac-ft/year
Total post-development catchment or BMP analysis area:		AC	Average annual post runoff volume (note no BMP area):	ac-ft/year
Pre-development Non DCIA CN:			Pre-development Annual Mass Loading - **Nitrogen:**	kg/year
Pre-development DCIA percentage:		%	Pre-development Annual Mass Loading - **Phosphorus:**	kg/year
Post-development Non DCIA CN:			Post-development Annual Mass Loading - **Nitrogen:**	kg/year
Post-development DCIA percentage:		%	Post-development Annual Mass Loading - **Phosphorus:**	kg/year
Estimated BMP Area (no loading from this area)		AC		

STORMWATER TREATMENT ANALYSIS:	V 8.6	GO TO GENERAL SITE INFORMATION PAGE	Blue Numbers =	Input data
			Red Numbers =	Calculated

If not done, specify pre- and post-development watershed characteristics.

6/18/2018

GO TO WATERSHED CHARACTERISTICS



Total Required Treatment Efficiency:

Required Treatment Eff (**Nitrogen**):	40 %
Required Treatment Eff (**Phosphorus**):	67 %

Select one of the BMPs below to analyze efficiency or review the summary data.

RETENTION BASIN	WET DETENTION / MAP	EXFILTRATION TRENCH	RAIN GARDEN / depression storage	SWALE	USER DEFINED BMP
PERVIOUS PAVEMENT	STORMWATER HARVESTING	FILTRATION	View Media Mixes	NOTE !!!: All individual system must be sized prior to being analyzed in conjunction with other systems. Please read instructions in the CATCHMENT AND TREATMENT SUMMARY RESULTS tab for more information.	
GREENROOF	RAINWATER HARVESTING	LINED REUSE POND & UNDERDRAIN INPUT	GO TO COST ANALYSIS WORKSHEET		
VEGETATED NATURAL BUFFER	VEGETATED FILTER STRIP	TREE WELL	CATCHMENT AND TREATMENT SURFACE		

Wet Detention Lake Permanent Pool Volume

ELEVATION (NAVD)	AREA (ACRE)	INCREMENTAL VOLUME (ACFT)	CUMULATIVE VOLUME (ACFT)
10.00	3.19		0.00
		6.10	
8.00	2.91		6.10
		25.80	
-2.00	2.25		31.90

Anoxic depth assumed at 12 feet below control elevation

ENGINEERING DESIGN & CONSTRUCTION, INC
CIVIL ENGINEERS & SURVEYORS SPECIALIZING IN LAND DEVELOPMENT

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Port St. Lucie, FL 34987
772-462-2455

WET DETENTION / MANAGED AQUATIC PLANTS: 6/18/2018 V 8.6

Blue Numbers =	Input data
Red Numbers =	Calculated or Carryover

Also called: FLOATING ISLANDS and includes a wet detention pond:

Camping World

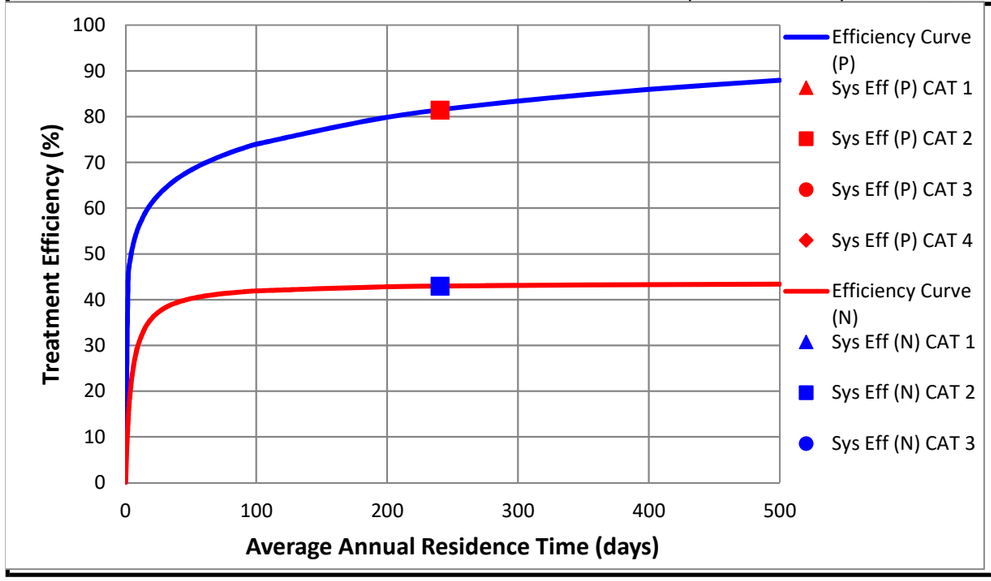
GO TO STORMWATER TREATMENT ANALYSIS

	Existing Offsite	World & Ou	Catchment 3	Catchment 4	
Total pre-development catchment area:	16.030	28.970	0.000	0.000	ac
Total post-development catchment area:	16.030	25.043	0.000	0.000	ac
Average annual residence time (between 1 and 500 days)		240.40			days
Littoral Zone or other improvements used?*		NO			
Littoral Zone or other improvement efficiency credit:					%
Floating Wetland or Mats used in the design:		NO			
Floating Wetland or Mats credit:					%
Total **Nitrogen** removal required:	0.000	52.051			%
Total **Phosphorus** removal required:	0.000	76.455			%
Total **Nitrogen** removal efficiency:	0.000	42.967	0.000	0.000	%
Total **Phosphorous** removal efficiency:	0.000	81.465	0.000	0.000	%
Is the wet detention sufficient:		NO			
Average annual runoff volume:	7.385	48.436			ac-ft/yr

* pond coverage must follow Regulatory Requirements

Wet Detention Pond Characteristic:

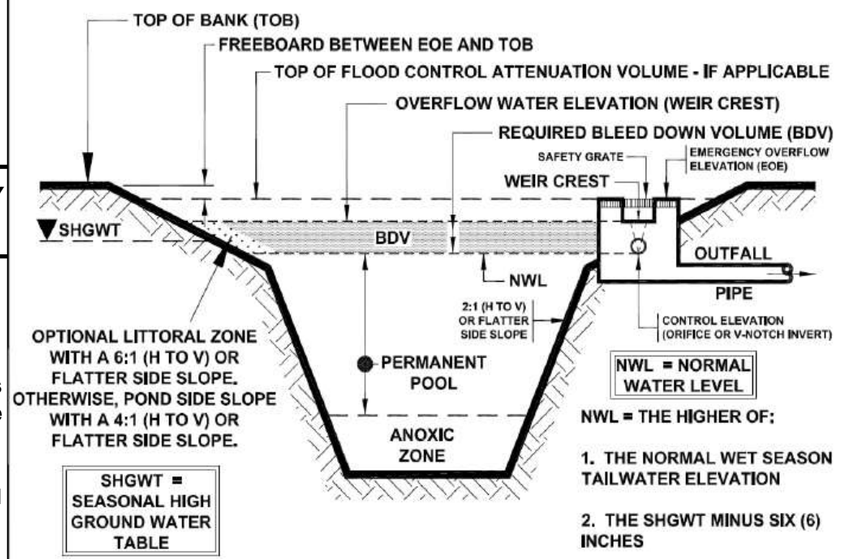
Minimum Pond Permanent Pool Volume:		31.901			ac-ft



NOTE FOR TREATMENT EFFICIENCY GRAPH:

The purpose of the treatment efficiency graphs is to help illustrate the treatment efficiency of the wet detention system as the function of average annual residence time (and permanent pool volume). The graph illustrates that there is a point of diminished return as the permanent pool volume is substantially increased. Therefore, to provide the most economical BMP treatment system, other alternatives such as "treatment trains" and compensatory treatment should be considered.

REQUIRED REMAINING TREATMENT EFFICIENCIES OF TREATMENT SYSTEM IN SERIES WITH FLOATING ISLANDS WITH WET DETENTION. USE FOR SIZING OF TREATMENT SYSTEM IN SERIES WITH FLOATING ISLANDS WITH WET DETENTION.



TYPICAL X-SECTION OF A WET DETENTION SYSTEM

Source of Graphic: draft **STORMWATER QUALITY APPLICANT'S HANDBOOK** dated March 2010, by the Department of Environmental Protection, available at: http://www.dep.state.fl.us/water/wetlands/erp/rules/stormwater, March 2010

CATCHMENTS AND TREATMENT SURFACE DISCHARGE SUMMARY V 8.6

CALCULATION METHODS:

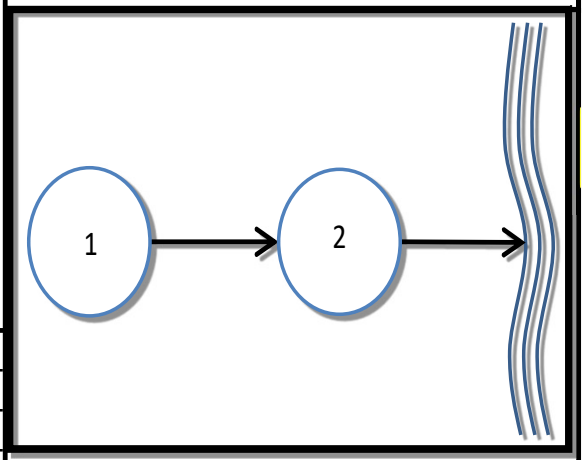
1. The effectiveness of each BMP in a single catchment is converted to an equivalent capture volume.
2. Certain BMP treatment train combinations have not been evaluated and in practice they are at this time not used, an example is a greenroof following a tree well.
3. Wet detention is last when used in a single catchment with other BMPs, except when followed by filtration

PROJECT TITLE	Camping World	Optional Identification		
	Existing Offsite	mping World & Outpar	Catchment 3	Catchment 4
BMP Name		Wet Detention/ MAPs		
BMP Name				
BMP Name				

REVIEW, ONE OR MORE CATCHMENT HAS BEEN SPECIFIED WITHOUT A BMP

Surface Water Discharge Summary Performance of Entire Watershed

Catchment Configuration	B - 2 Catchment-Series		6/18/2018
Nitrogen Pre Load (kg/yr)	52.77	Treatment Objectives or Target for TN MET TP MET	BMPTRAINS MODEL
Phosphorus Pre Load (kg/yr)	4.31		
Nitrogen Post Load (kg/yr)	87.90		
Phosphorus Post Load (kg/yr)	12.90		
Target Load Reduction (N) %	40		
Target Load Reduction (P) %	67		
Target Discharge Load, N (kg/yr)	52.74		
Target Discharge Load, P (kg/yr)	4.26		
Provided Overall Efficiency, N (%):	41		
Provided Overall Efficiency, P (%):	80		
Discharged Load, N (kg/yr & lb/yr):	51.59	113.63	
Discharged Load, P (kg/yr & lb/yr):	2.59	5.71	
Load Removed, N (kg/yr & lb/yr):	36.31	79.98	
Load Removed, P (kg/yr & lb/yr):	10.30	22.69	



Appendix F – Supporting Documentation

ENGINEERING DESIGN & CONSTRUCTION, INC
CIVIL ENGINEERS & SURVEYORS SPECIALIZING IN LAND DEVELOPMENT

10250 SW Village Parkway, Suite 201
Port St. Lucie, FL 34987
772-462-2455

C-37 CANAL TAILWATER FROM ERP APP 060412-11

THESE VALUES ARE IN THE NGVD 1929 DATUM, CONVERTED TO NAVD 1988 IN CALCULATIONS OF THE CAMPING WORLD SYSTEM DESIGN

SOUTH FLORIDA WATER MANAGEMENT DISTRICT
ENVIRONMENTAL RESOURCE
STANDARD GENERAL PERMIT NO. 56-02469-P
DATE ISSUED: June 28, 2006

Form #0941
08/95

PERMITTEE: SCHOOL BOARD OF ST LUCIE COUNTY
327 N W COMMERCE PARK DR
PORT ST LUCIE, FL 34986

PROJECT DESCRIPTION: Construction and operation of a surface water management system to serve a 17.72-acre project known as Jenkins Road K-8 School.

PROJECT LOCATION: ST LUCIE COUNTY, SEC 19 TWP 35S RGE 40E

PERMIT DURATION: See Special Condition No:1. See attached Rule 40E-4.321, Florida Administrative Code.

This is to notify you of the District's agency action concerning Notice of Intent for Permit Application No. 060412-11, dated April 12, 2006. This action is taken pursuant to Rule 40E-1.603 and Chapter 40E-40 , Florida Administrative Code (F.A.C.).

Based on the information provided, District rules have been adhered to and an Environmental Resource General Permit is in effect for this project subject to:

1. Not receiving a filed request for a Chapter 120, Florida Statutes, administrative hearing.
2. the attached 19 General Conditions (See Pages : 2 - 4 of 6) ,
3. the attached 17 Special Conditions (See Pages : 5 - 6 of 6) and
4. the attached 2 Exhibit(s)

Should you object to these conditions, please refer to the attached "Notice of Rights" which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Please contact this office if you have any questions concerning this matter. If we do not hear from you in accordance with the "Notice of Rights," we will assume that you concur with the District's action.

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a "Notice of Rights" has been mailed to the Permittee (and the persons listed in the attached distribution list) no later than 5:00 p.m. on this 28th day of June, 2006, in accordance with Section 120.60(3), Florida Statutes.

BY: _____

For Anthony M. Waterhouse, P.E.
Director - Surface Water Management
Palm Beach Service Center

Certified mail number 7005 0390 0005 9815 0488

Name: 10 Yr 72 Hr Hydrology Sim: 10 Yr 72 Hr
Filename: P:\Proj-2005\05-560 SBSLC Jenkins Rd\Drainage\10 Yr 72 Hr.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 150.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: 10 Yr 72 Hr Boundary Flows:

Time(hrs)	Print Inc(min)
200.000	15.000

Group	Run
BASE	Yes

Name: 25 Yr 72 Hr Hydrology Sim: 25 Yr 72 Hr
Filename: P:\Proj-2005\05-560 SBSLC Jenkins Rd\Drainage\25 Yr 72 Hr.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 100.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: 10 Yr 72 Hr Boundary Flows:

Time(hrs)	Print Inc(min)
100.000	15.000

Group	Run
BASE	Yes

C-37 CANAL TAILWATER FROM ERP APP 060412-11

THESE VALUES ARE IN THE NGVD 1929 DATUM, CONVERTED TO NAVD 1988 IN CALCULATIONS OF THE CAMPING WORLD SYSTEM DESIGN

==== Boundary Conditions ====

Name: 10 Yr 24 Hr Node: Bndy Type: Stage

Time(hrs)	Stage(ft)
0.000	9.250
1.330	10.890
2.670	11.230
4.000	12.240
5.330	11.610
6.670	11.060
8.000	10.890
9.330	11.000
10.670	11.240
12.000	12.530
13.330	11.770
14.670	11.120
16.000	10.920
17.330	11.120
18.670	11.480
20.000	13.420
21.330	12.280
22.670	11.300
24.000	11.000

Name: 10 Yr 72 Hr Node: Bndy Type: Stage

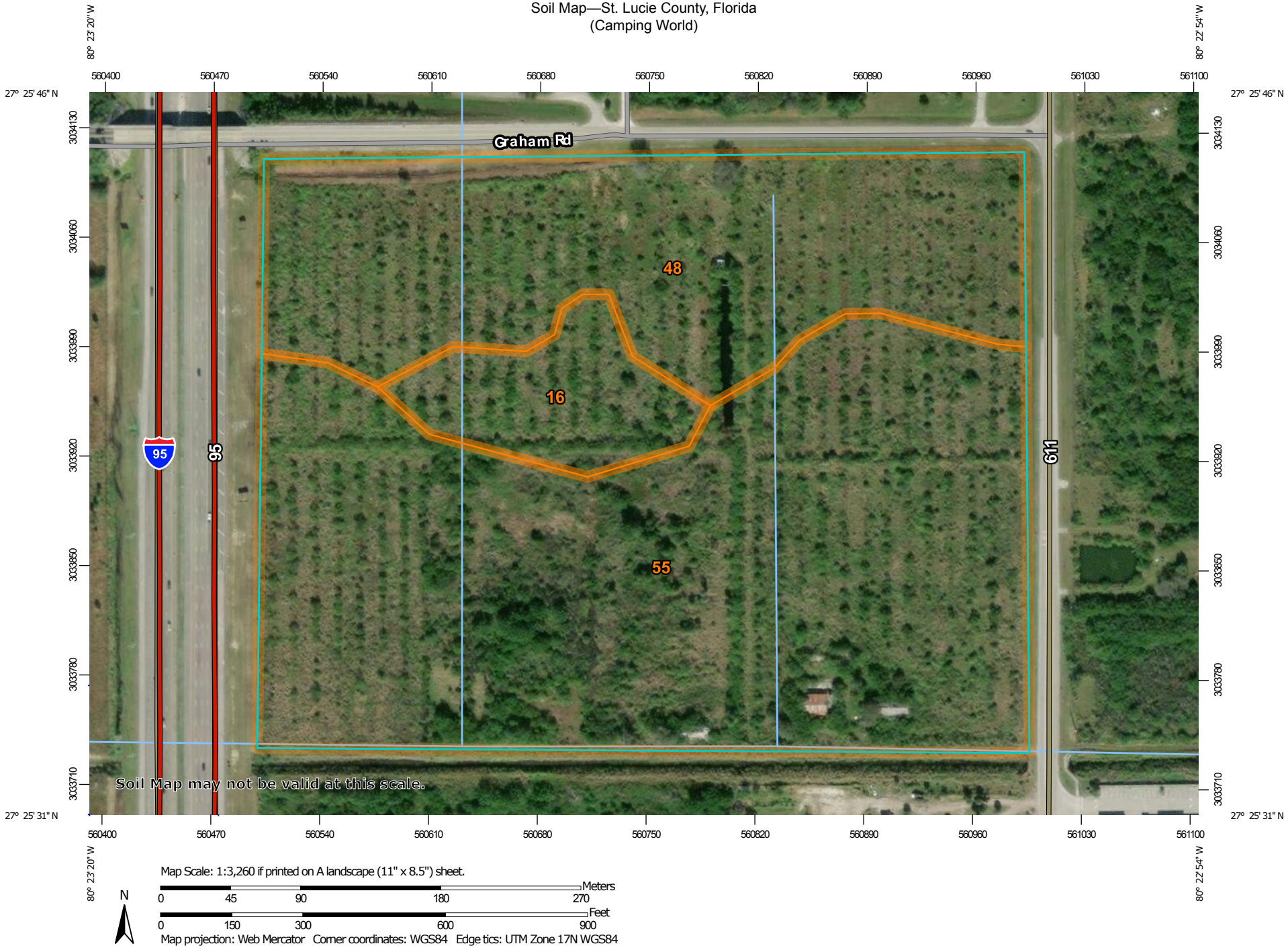
Time(hrs)	Stage(ft)
0.000	9.250
4.000	12.050
8.000	12.420
12.000	13.530
16.000	12.830
20.000	12.230

C-37 CANAL TAILWATER FROM ERP APP 060412-11

THESE VALUES ARE IN THE NGVD 1929 DATUM, CONVERTED TO NAVD 1988 IN CALCULATIONS OF THE CAMPING WORLD SYSTEM DESIGN

24.000	12.050
28.000	12.170
32.000	12.430
36.000	13.860
40.000	13.010
44.000	12.300
48.000	12.080
52.000	12.300
56.000	12.700
60.000	14.840
64.000	13.580
68.000	12.490
72.000	12.170

Soil Map—St. Lucie County, Florida
(Camping World)



Map Scale: 1:3,260 if printed on A landscape (11" x 8.5") sheet.

N

Meters
0 45 90 180 270

Feet
0 150 300 600 900

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: St. Lucie County, Florida
Survey Area Data: Version 10, Oct 6, 2017

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 31, 2009—Dec 15, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
16	Hilolo loamy sand	3.3	7.2%
48	Wabasso sand, 0 to 2 percent slopes	15.1	32.4%
55	Winder loamy sand	28.1	60.5%
Totals for Area of Interest		**46.6**	**100.0%**

RANGE 38 EAST

RANGE 39 EAST

RANGE 40 EAST

TOWNSHIP 35 SOUTH

TOWNSHIP 36 SOUTH

FORT PIERCE

INDIAN RIVER

ORANGE AVE.

Site Location

PROPOSED STRUCTURE

PROPOSED STRUCTURE

PROPOSED STRUCTURE

PROPOSED STRUCTURE

GENERAL WATER ELEVATIONS

DRY SEASON	WET SEASON
19.4	17.0
18.4	14.2
18.2	14.0
17.4	14.0
17.0–17.6	14.3
16	16
14.0	11.0
13.0	10.0
12	12
11	11
9.5	6.5
9.25	6
8.5	8.5
?	8
6	6
?	4
3.1	3.1
TIDAL	TIDAL

NOTES

1. The canal right-of-ways shown hereon are based on the Original Plan of Reclamation, Order of Taking and Deeds. Where discrepancies were found, the right-of-way width indicated in Order of Taking and Deeds were used.
2. The n-numbered canals are right-of-ways deeded to the District subsequent to the Adoption of the Plan of Reclamation.
3. Some portions of right-of-ways as shown hereon have been deeded to Federal, State, County and Local Agencies for road and drainage purposes.
4. The bench marks shown hereon (NO1 through NO48) were established in June 1975 and refer to elevations established by the F.C.E. for MON. 1442.
5. The elevations denoted thus were taken from the District Map prepared by Others, copies of which are on file in the District Office. Culvert and invert elevations or other structure may affect control elevations throughout the system. It is recommended that the District be consulted on Control.
6. Designer should not rely solely on this drawing

LEGEND

Applicable Right-of-Way Width Each Side of Line

Center of Section

Section or 1/4 Section Line

Change in Right-of-Way Width at Section, 1/4 Section or 1/4-1/4 Section Corners

Roadways

Railroad

Bridges

Private Pumping Station

District Back Pump

NSLRWCD WATER QUALITY TESTING FOR DEP CONTRACT No. WAP055

1. STRUCTURE 23-1
2. NF ST. LUCIE RIVER @ MIDWAY ROAD
3. PUMP STATION NO. 3
4. STRUCTURE 44-1
5. PUMP STATION NO. 1
6. PUMP STATION NO. 2
7. STRUCTURE 58-1
8. STRUCTURE 71-2
9. STRUCTURE 88-1
10. STRUCTURE 40-1
11. STRUCTURE 29-3
12. STRUCTURE 56-2

NSLRWCD IMPROVEMENTS

- TRASH BOOM
- WATER CONTROL STRUCTURE
- C-25 DIVERSION

STRUCTURE LEGEND

- FLASHBOARD RISER
- SINGLE SLIDE GATE
- DOUBLE SLIDE GATE
- FIXED WEIR
- RADIAL GATE
- SLUICE GATE
- ??-?-? CANAL NUMBER / STRUCTURE NUMBER / NUMBER OF GATES

PROPOSED STRUCTURES

- PROPOSED FIXED WEIR
- S = STAGE RECORDER, F = FLOW MEASUREMENT, R = RAINFALL GAUGE

N

0 1/4 1/2 3/4 1

SCALE IN MILES

GENERALIZED CANAL ELEVATIONS MAP FOR THE NORTH ST. LUCIE RIVER WATER CONTROL DISTRICT

ST. LUCIE COUNTY, FLORIDA

2721 S. JENKINS ROAD FORT PIERCE, FLORIDA 34981
PHONE: (561) 461-5050 FAX: (561) 461-9446

ORIGINAL MAP BY:
S. P. Mulk, P.L.S.
Vero Beach, FL (1987)

UPDATED BY:
LBFH, Inc., Ft. Pierce, FL
(REVISED 01-23-02)

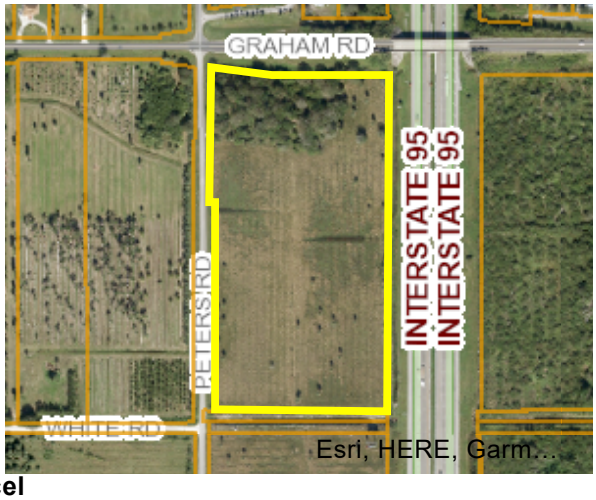
P\74-0901\CONTROLS.DWG

P:\74-0901\Maps\CONTROLS2-02-05-2004.dwg, 03/05/2004 11:08:45 AM, Russ-C, LBFH Inc.

Saint Lucie County Property Appraiser
Michelle Franklin CFA

Report generated: Tuesday, April 6, 2021

Parcel Report



Parcel

PARCELNO:	2313-432-0000-000-4
Property ID:	13775
Owner1:	R V Development Llc
SiteAddress:	2192 COPENHAVER RD

Owner

Owner1:	R V Development Llc
Owner2:	
Owner3:	
MailingAddress:	%Bud Wynne 547 Wash Roberts Ln McMinnville, TN 37110-4971

Overview

PrimaryLandUse:	6000 - GRZNG SLD CP
DistrictGroup:	0002 - Saint Lucie County
Subdivision:	Metes and Bounds
Just/Market Value:	$308,400
FinishedArea:	
Acres:	16.81
TotalArea:	732,243.6

Legal Description

LegalDescription: 13 35 39 W 1/2 OF SW 1/4 OF SE 1/4 LYG SLY AND WLY OF I-95 R/W (16.81 AC) (OR 1828-2810)

Value History

Year	Just/Market Value	Building Value	Land Value	SFYI Value	Assessed Value	Exemption Amount	County Taxable	Save Our Home OR 10% Cap Differential	Ag Credit
2020	$308,400	$0	$308,400	$0	$15,149	$0	$15,149	$17,651	$275,600
2019	$315,600	$7,200	$308,400	$0	$23,712	$0	$23,712	$16,288	$275,600
2018	$287,900	$7,500	$280,400	$0	$22,911	$0	$22,911	$17,389	$247,600

Tax Links

SLC Tax Collector's Office taxes for this parcel

Download TRIM notice for this parcel

Special Assessments

Description	Start Year	Units	Amount
North St. Lucie Water Management District	2013	16.81	$310.99
County Solid Waste	2009	12	$276.14

Land Lines

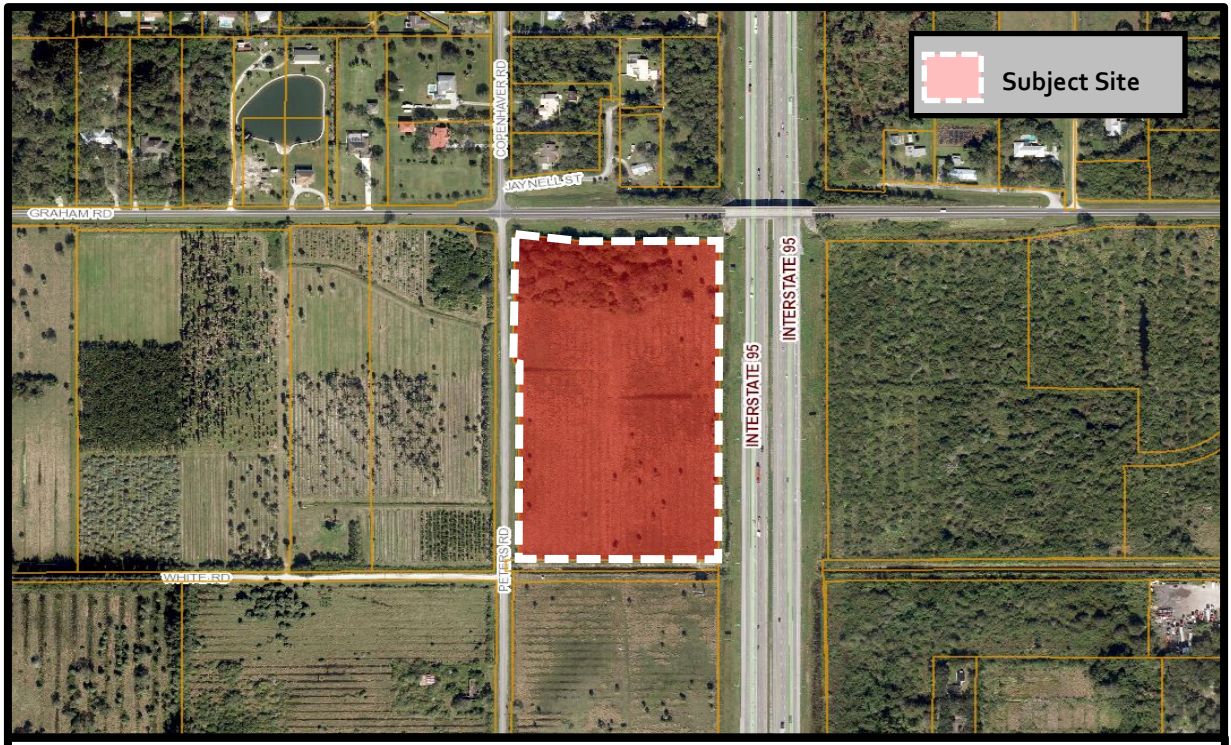
Line Number	Units	Unit Type
1	16	MACR
2	16	CACR
3	0.81	Acre

Sales History

Sale Date	Sale Price	Sale Code	Deed Type	Grantor	Book Page	View Document
09/24/2003	$1,750,100	XX02	WD	Griffin Chester B	1828-2810	Clerk of Courts
12/31/1899	$0				-	Clerk of Courts

Photos





THE SUNRISE CITY
FORT PIERCE
Florida

Future Land Use & Zoning Atlas Map Amendment
2192 Peters Road
Aerial Map

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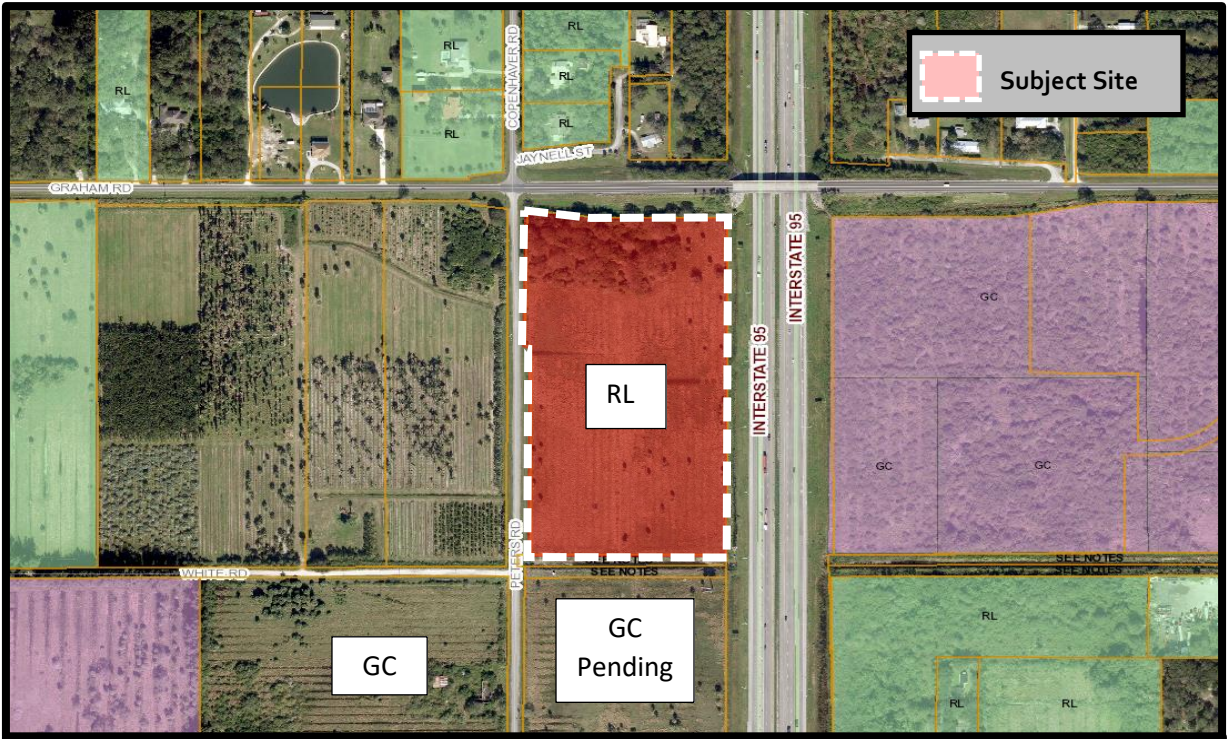

THE SUNRISE CITY
FORT PIERCE
Florida

Future Land Use & Zoning Atlas Map Amendment
2192 Peters Road
Future Land Use Map

N
W E
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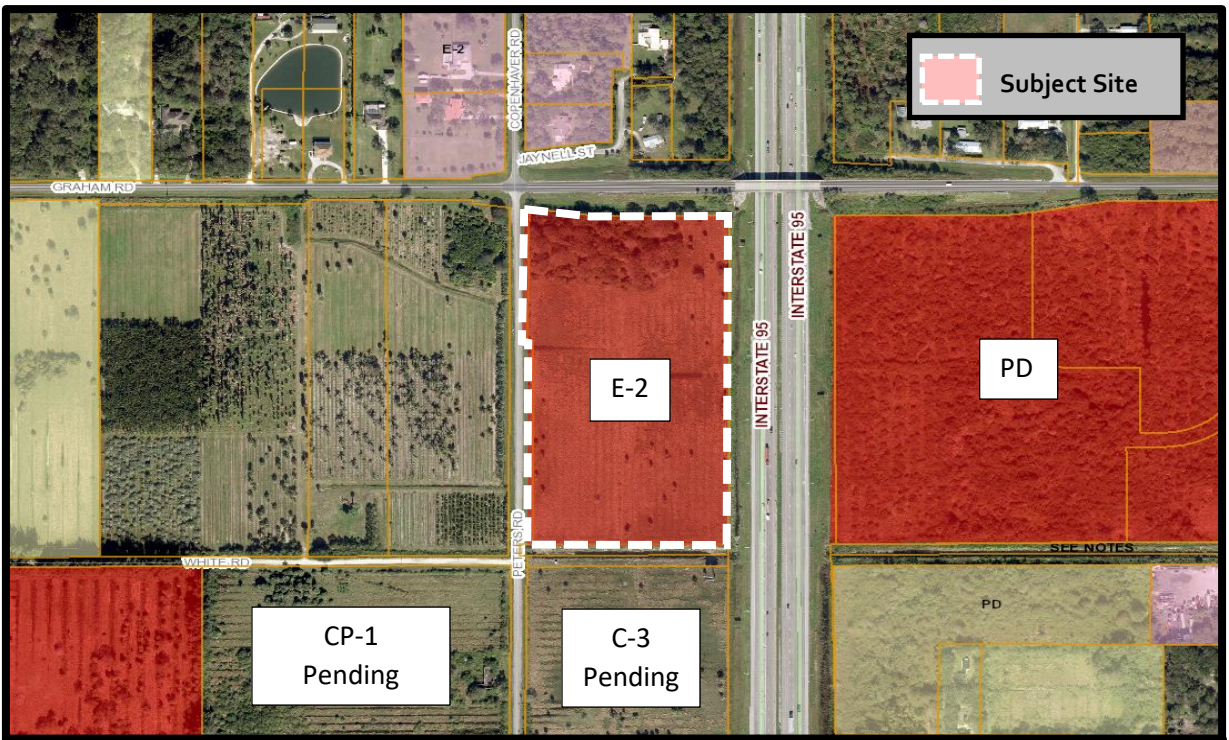


THE SUNRISE CITY
FORT PIERCE
Florida

Future Land Use & Zoning Atlas Map Amendment 2192
2192 Peters Road
Zoning Map

N
W E
S

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

May 19, 2021

Blaine Bergstresser
445 24th Street, Suite 200
Vero Beach, FL 32960

Subject: **FLUMA & Rezoning – 2192 Copenhaver Road**
Technical Review Project # 21-06000007

Fort Pierce Planning:

1. It is staffs understanding that there will be subsequent applications filed for project specific Concurrency Review, Design Review, and Development Review soon for this site.
2. As this project is along a County Road the Traffic Study would be reviewed by the County and their third-party reviewer. This review may take place at the Development Review stage.

Please provide a written response to all TRC comments and provide an electronic submittal of materials (complete submittal packet). All comments must be satisfied and addressed to move onto the Planning Board review stage. The presented review is specific to the proposed facility. Please contact me should you have any questions regarding the project at (772) 467-3742 or by e-mail: bcreagan@cityoffortpierce.com.

Sincerely,

Brandon Creagan, MCRP, LEED Green Associate
Planner

THE SUNRISE CITY
FORT PIERCE
Florida
ENGINEERING
DEPARTMENT

TO : Brandon Creagan, Planner

FROM : John R. Andrews, P.E., City Engineer JRA

RE : Fort Pierce RV Storage Rezoning & FLU – 2192 Copenhaver Road
TRC No. 21-06000007

DATE : May 13, 2021

This is to advise you that we have completed the review of the following documents as received by this office on May 12, 2021:

- [x] Rezoning & FLU Application
- [ ] Test Reports & Related Documents
- [ ] Record Drawings
- [ ] Clearances from all applicable Local, State and Federal Agencies
- [ ] Construction Drawings
- [ ] Executed Construction Contract
- [ ] Permits from applicable Local, State & Federal Agencies

Based on our reviews and appropriate site final inspection, we

- [x] Recommend
- [ ] Do Not Recommend

- [x] Rezoning & FLU Approval
- [ ] Building Permit
- [ ] C/O

Developer, Owner, Engineer, Contractor and other members of the Development Team must be aware, the above recommendation is based only on the construction requirements of the engineering plans and other engineering documentation approved by this department. The Development Team shall be responsible for the compliance with other City department requirements and all approved documents, as well as Local, State and Federal regulations. The development requirements for this project may necessitate additional construction requirements that are not subject to this department's review for approval.

- [x] See attached for advisory comments

Q:\ENGINEERING\Site Development Projects\F\Fort Pierce RV Storage\Rezoning\Submittal No. 1 - 050721\Rezoning Approval- 051321.docx

ADVISORY COMMENTS:

1. The submitted survey was a photocopy. The applicant shall submit a certified boundary and topographic survey per the requirements specified in the City of Fort Pierce Code of Ordinances Section 119-2 at time of site plan application.
2. Review of the development will occur at time of site plan application.

JRA/TST/tst

TST

100 NORTH US 1, FORT PIERCE, FLORIDA 34950 ▪ CITYOFFORTPIERCE.COM ▪ TEL: 772.467.3000 ▪ FAX: 772.460.6847

THE SUNRISE CITY
FORT PIERCE
BUILDING DEPARTMENT Florida

BUILDING DEPARTMENT
TECHNICAL REVIEW COMMITTEE (TRC)
COMMENT FORM

Meeting Date: 5.20.21
Property Address: Future Land Use Map Amendment and Rezoning - RV Storage - 2192 Copenhaver Road

Please be advised that the project may trigger the requirements indicated below:

☑ 1. Building Official or his representative has no comment at the time of this meeting, but reserves submission of comments upon completion of the official plan review.

☐ 2. Pre-construction meeting with the City's Building Department is requested.

☐ 3. Any construction will need to meet the requirements of the Florida Building Code 7th Edition.

☐ 4. Means of egress is required.

☐ 5. Means of ingress is required.

☐ 6. Must meet the following Accessibility requirements:

- ☐ Accessible route
- ☐ Handicapped parking spaces
- ☐ Means of egress

☐ 7. Change of Use required

- ☐ to include a signed and sealed Life Safety Plan
- ☐ to include a signed and sealed detailed comprehensive building plan.

☐ 8. Property exists in Special Flood Hazard Area. All Federal and State requirements shall be addressed.

☐ 9. Flood Development Permit required.

☐ 10. Building Permit required.

☐ 11. Signed and sealed construction drawings required.

☐ 12. Will need to meet the Fire Code.

☐ 13. Sprinkler system is required.

☐ 14. Smoke alarm system is required.

☐ 15. Other

Additional Comments/Requirements:

Building Official's or Representative's Signature _____ Date: 5/14/21

THE SUNRISE CITY
FORT PIERCE
Florida
POLICE DEPARTMENT
"In Honor We Serve"

Technical Review Committee meeting

May 20, 2021

Case # 21-06000007

Planner: Brandon Creagan

Future Land Use / Rezoning

2192 Copenhaver Rd., Ft. Pierce (RV Storage).

Comments:

No comments at this time.

Officer Damian Spotts

Crime Prevention Practitioner

Fort Pierce Police Department.

Fort Pierce Utilities Authority
Water/Wastewater Engineering
1701 South 37th Street
Fort Pierce, FL 34947
772.466.1600 x3473

Technical Review Committee Meeting

March 18, 2021

TECHNICAL REVIEW PROJECT # 21-06000007

RV Storage-2192 Copenhaver Rd

Comments

FPUA W/WW Engineering: Approved as noted,

Water and sewer services are available to serve this property. See attached Utility map. FPUA will require a 15 feet utility easement at the southern end of the property for a future 12" water main. For more information please contact John Biggs at 772 466 1600 ext. 3474.

FPUA Electric & Gas Engineering: Approved

Currently, existing electric service to the site (From Peters / Copenhaver Road). Please provide electric load information for the propose new services and AutoCAD drawing. Customer will be responsible for all transformer pads (if needed), conduits and secondary conductors. For more information and project coordination, please contact Sal Scimeca.

Sal Scimeca
Engineering Technician II
Electric and Gas Engineering
1701 S. 37th Street, Fort Pierce, FL 34947
sscimeca@fpua.com

Office: (772)466-1600 Ext. 6957

Please find attached a copy of the FPUA GIS map (Electric).

If the developer should have any questions, please have them contact me or the individual listed above.



Legend

- Electric Primary Wire
- Transmission Wire
- Gas Main
- Fiber Optic Cable
- Potable Water Main
- Raw Water Main
- Wastewater Force Main
- WW Gravity Main
- Pole
- Fuse
- Transformers
  - Overhead
  - Pad Mount
- Valves
  - Gas
  - Water
  - Raw Water
  - Waste Water
- Fire Hydrant
- Well
- Lift Station

Disclaimer:

The data contained herein is offered "as is", with no claim or warranty as to its accuracy or completeness. The data is for reference only and should not be considered to be of survey precision. Due to formatting restrictions, the information provided in the map may not be represented in the legend.

811 Know what's below. Call before you dig.

Date: 11/23/2020

FPUA COMMUNITY PROUD

N

1 inch = 273 feet

FPUA Web Map

Created By:
FPUA

(772) 466-1600
FAX (772) 461-1938



Legend

- Electric Primary Wire
- Transmission Wire
- Gas Main
- Fiber Optic Cable
- Potable Water Main
- Raw Water Main
- Wastewater Force Main
- WW Gravity Main

- Pole
- Fuse

Transformers

- Overhead
- Pad Mount

Valves

- Gas
- Water
- Raw Water
- Waste Water

- Fire Hydrant
- Well
- Lift Station

Disclaimer:

The data contained herein is offered "as is", with no claim or warranty as to its accuracy or completeness. The data is for reference only and should not be considered to be of survey precision. Due to formatting restrictions, the information provided in the map may not be represented in the legend.

811 Know what's below. Call before you dig.

Date: 2/8/2021

FPUA COMMUNITY PROUD

N

1 inch = 222 feet

FPUA Web Map

Created By:
FPUA

(772) 466-1600
FAX (772) 461-1938

May 18, 2021

PROJECT: RV Storage – 2192 Copenhaver Road

REF: TRC App. #21-06000007

TO: Brandon Creagan

FROM: David Hays

The following comments are offered by SLC Public Works Department as advisory:

1. The project accesses onto a County Road. The road is an unimproved roadway and approval of projects on unimproved roadways should include improvement of the roadway to City standards.
2. There are several projects proposed on Peters Road (referred to by application as Copenhaver Road). As all projects will require construction of Peters Road, it is recommended the owners coordinate a meeting with the City and County to address the process together.
3. The traffic report will be reviewed by a third party through the County.
4. For discussion regarding these comments, please contact me at 772-462-1491, haysd@stlucieco.org or Grant Chambers at 772-462-2741, chambersg@stlucieco.org.

Cc: Alicia Rosenthal

ST. LUCIE COUNTY FIRE DISTRICT
Community Risk Reduction Division
Office of the Fire Marshal

Telephone: **(772) 621-3322**
Fax: **(772) 621-3604**

BUREAU OF FIRE PREVENTION

SITE PLAN REVIEW

TO: Site Plan Applicant

SITE PLAN: 2192 Copenhaver Road (RV Storage)

REVIEW DATE: 5/11/2021

PLANNER: CREAGAN

REVIEWED BY: Captain Wayne Boyer

Site Plan Approved: _____

Site Plan Approved with conditions: ___X____

Site Plan Approval withheld pending written acknowledgement of conditions: _____

Site Plan Rejected: _____

The Following Revisions Are Necessary:

1. **Please submit a completed application for Development/Site Plan Review (St. Lucie County Fire District Development & Site Plan Review Application). This form is available on-line at https://www.slcfd.com**
2. **Fire District review fees are due at the time of submittal. An abbreviated fee schedule is included on the application form.**
3. **Please send the Fire District electronic plans for the site and buildings.**
4. **A separate review and permit is required for Underground Fire Mains connected to standpipes or sprinkler systems.**
5. **Fire hydrants (shall be) are provided for buildings other than detached one-and-two-family dwellings IAW both of the following 1) The maximum distance to a fire**

hydrant from the closest point in the building shall not exceed 400 feet. 2) The maximum distance between fire hydrants shall not exceed 500 feet. NFPA 1:18.5.3. Please provide fire flow calculations for hydrants.

6. **An approved water supply capable of supplying the required fire flow for fire protection (shall be) is identified to all premises upon which facilities, buildings, or portions of buildings which are to be constructed or moved into the jurisdiction. The approved water supply shall be in accordance with NFPA 1:18.4. See "Needed NFPA Fire Flow Calculator Spreadsheet".**

7. **Security gates must either be manned 24 hour/day or provide an access control key switch on the control panel to allow for Fire Department entry in an emergency. Security gates must maintain a clear width of 12 feet when open and provide a means to open the gates manually upon loss of power.**

8. **Site Plans shall include all necessary fire department access roadways and fire lanes as determined by the Fire Marshal. At least 13 feet 6 inches nominal vertical clearance shall be provided and maintained over the full width of all means of access. Including, but not limited to trees, canopies, etc., as referred to in Exhibit "A," attached hereto. Minimum roadway pavement width (two-way traffic) shall be twenty (20) feet. Minimum roadway pavement width (one-way traffic) shall be twelve (12) feet.**

9. **The Fire District reserves the right for future comments at the site plan & building construction phase.**

10. **Per NFPA 1114 Chapter 9, Section 1.3. Prior to the final occupancy of any building, the permitted water supply for fire protection, including fire hydrants and fire suppression systems, shall be installed, tested, and acceptable to the AHJ (SLCFD).**

11. **Be advised: Dimensions of largest vehicle are as follows: 38 tons or 77k lbs, 47.5 ft. total length, 21.5 ft. wheel base, 10.5 ft. total width, 41.5 degree turning radius.**

Planning Board **7. b.**

Meeting Date: 07/14/2021

Information

REQUESTED ACTION

Annexation - 1701 Woodward Drive

LOCATION

1701 Woodward Drive

RESPONSIBLE STAFF

Brandon C. Creagan, MCRP, LEED Green Associate, Senior Planner

RECOMMENDATION

Approval

Attachments

Staff Report
Application & Supporting Documents
Aerial Map
Future Land Use Map
Zoning Map
TRC Comments

Form Review

Form Started By: Brandon Creagan Started On: 07/08/2021 11:07 AM

Final Approval Date: 07/08/2021

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT
Florida

TO:	Members of the City of Fort Pierce Planning Board
THROUGH:	Jennifer Hofmeister-Drew, AICP, LCAM, Planning Director
FROM:	Brandon C. Creagan, MCRP, LEED Green Associate, Planner
RE:	**Application for Annexation** **1701 Woodward Drive**
BOARD DATE:	July 14, 2021

STAFF REPORT

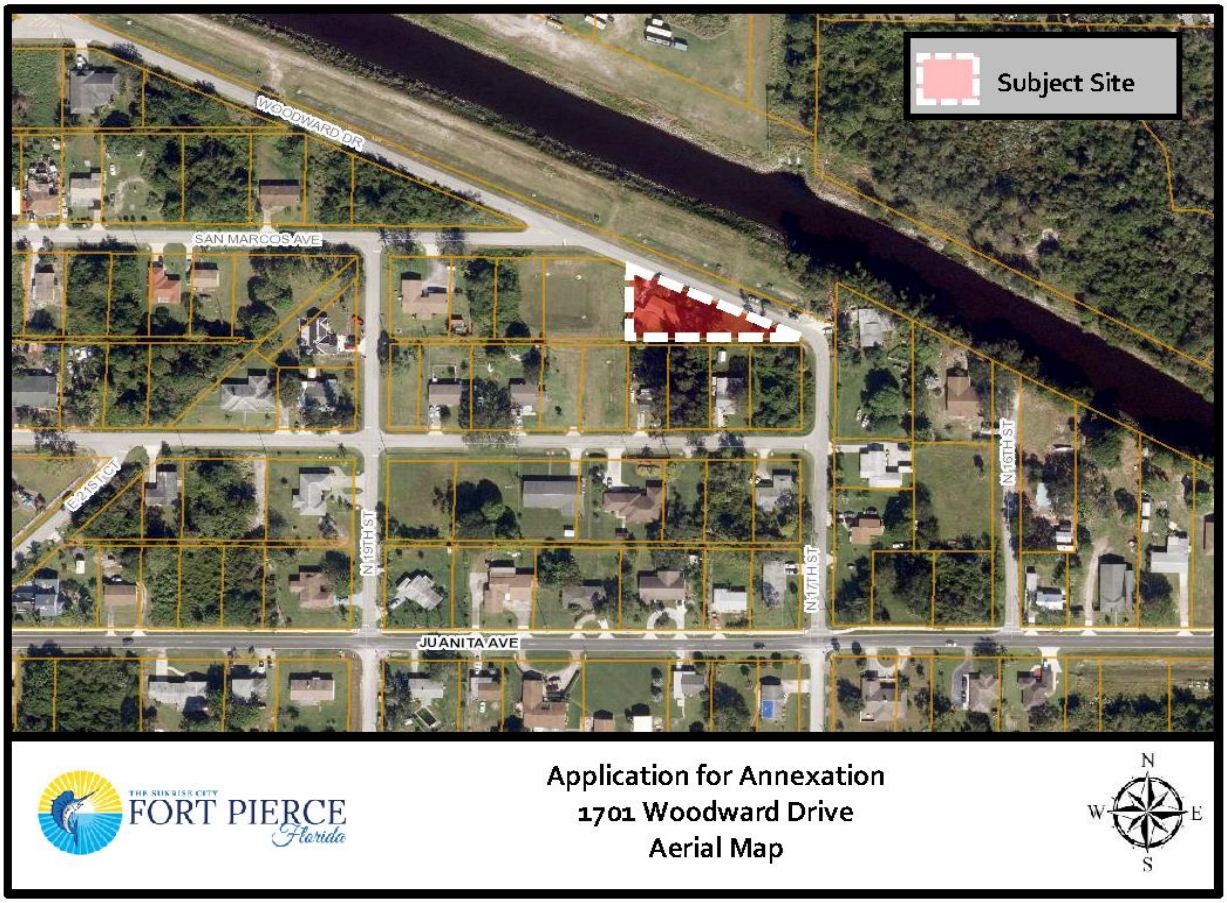
Property Owner/ Applicant	Daniel A Ramirez 302 Holly Avenue Port St. Lucie, FL 34952
Requested Action:	Approval of a Voluntary Application for Annexation for a parcel of land
Site Location:	1701 Woodward Drive in Fort Pierce, Florida
Parcel ID:	1433-701-0519-000-6
Parcel Size:	0.42
Current Future Land Use:	Residential Urban 5 du/ac (RU)
Current Zoning:	Residential Single Family, 4 Dwelling Units/Acre (RS-4)
Proposed Future Land Use:	Single Family Low Density (R-1)
Proposed Zoning:	Low Density Residential (RL)
Utilities:	FPUA

	North	East	South	West
Surrounding FLU:	RU (SLC)	RU (SLC)	RL (FP)	RU (SLC)
Surrounding Zoning:	RS-4 (SLC)	RS-4 (SLC)	R-1 (FP)	RS-4 (SLC)

Staff Analysis:

Request

The applicant is requesting a voluntary annexation of a parcel at 1701 Woodward Drive in Fort Pierce, Florida. The parcel ID is 1433-701-0519-000-6.



The subject properties have a St. Lucie County Future Land Use designation of Residential Urban 5 du/ac (RU) and a zoning designation of Residential Single Family, 4 Dwelling Units/Acre (RS-4). To ensure consistency with Policy 1.11.5 of the City's Comprehensive Plan, the proposed Future Land Use designation is Low Density Residential (RL) with a zoning classification of Low Density Residential (R-1).

Pursuant to Comprehensive Plan policy 1.11.5 "properties annexed shall receive a land use designation compatible with the County land use designation, unless otherwise approved by the City Commission." Staff has confirmed that the property is located within unincorporated St. Lucie County and is contiguous to the Fort Pierce City municipal boundary and within the FPUA service area. The subject proposed voluntary

annexation is also consistent with Chapter 171.044, F.S., whereas the property is contiguous to a municipality and reasonably compact; and the annexation will not result in the creation of an enclave.

The current combined taxable value of the properties is $87,900. Should the Application for Annexation be approved it could create a new source of ad-valorem tax revenue annually to the City of Fort Pierce if developed, depending on the millage rate per year, which currently is 6.9000. Currently the property has a single family home on it.

Comprehensive Plan

Staff has reviewed the Comprehensive Plan and finds the proposed annexation is consistent with the following Objectives and Policies:

Objective 1.11 of the Comprehensive Plan: "Annex properties within the Fort Pierce Utilities Authority Boundary in an orderly manner that promotes efficiency of public service provision and economic vitality of the City."

The property is within the FPUA service boundary. Policy, 1.11.1 of the City Comprehensive Plan: "The City shall evaluate proposed annexations within the urban service boundary based upon the following criteria:

1. The ability of the City to provide public services at a level equal to or better than that available from the current service providers;
2. The ability of the City to provide public services at the City's adopted levels of service;
3. Whether the annexation would eliminate an unincorporated island or could be expanded to eliminate an unincorporated island; and
4. Whether the annexation would eliminate an irregularity or irregularities in the City's boundaries, thereby improving service delivery".

The subject property is in an area that consists of properties that are within both the St. Lucie County and the City of Fort Pierce jurisdictions. This parcel abuts properties to the south that are within the City limits. The annexation of this property would assist in the City's effort to eliminate jurisdictional irregularities along the City's boundary and provide more efficient public services. The applicant is requesting that the City of Fort Pierce Future Land Use and Zoning remain consistent with the current County designations of RU and RS-4, respectively and the City's Comprehensive Plan. Thereby, the requested Future Land Use and Zoning Designations of RL and R-1, respectively, would be consistent with Policy 1.11.5 and the City's Comprehensive Plan. Pursuant to the Future Land Use Element of the Comprehensive Plan, annexations are reviewed for fiscal impacts, the effect upon adopted level of service standards for public facilities, and the elimination of the municipal boundary irregularities to improve service delivery.

Public Notification

In accordance with Policy Section 4.1.1 of the Joint Planning Agreement between the City of Fort Pierce and St. Lucie County, the City Planning Department will provide notice of this annexations by mail to the St. Lucie County Administrator's Office on or before July 18, 2021, no fewer than thirty (30) days prior to the first reading of this annexation by the City Commission.

Technical Review Committee

All affected Departments have reviewed the submittals and provided comments regarding the proposed voluntary annexation application based on compliance with the requirements of the City Code and Comprehensive Plan and have no objections. The comments generated from the technical review and any responses by the applicant have been provided.

Staff Recommendation

As proposed, the annexation meets the standards of the City's Comprehensive Plan, specifically Policy Section 1.11 regarding annexations. Planning Staff recommends that the Planning Board recommend approval of the proposed annexation along with the Future Land Use designation of RL and the Zoning designation of R-1

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

APPLICATION FOR ANNEXATION

Annexation applications will require the adoption of an ordinance which will require a public meeting before the Planning Board and two public hearings before the City Commission.

Application submission shall include the following:

- **TRC** (*Initial Submission): One (1) original and (8) paper copies of the application and support documents and provide one (1) electronic copy of the application packet as described below.
- **Planning Board**: One (1) original and (16) paper copies of the application and support documents and provide one (1) electronic copy of the application packet as described below.
- **City Commission**: One (1) original and (11) paper copies of the application and support documents and provide one (1) electronic copy of the application packet as described below.

In addition to a complete application, packets shall include:

- Warranty Deed
- Current Survey (completed within the last 12 months)

1. Address: 1701 Woodward Dr. Fort Pierce, FL. 34946
2. Legal description of real property for which annexation is being requested:
   Lot 1, Block 31, PARADISE PARK, according to the map or plat thereof as recorded in Plat Book 8, Page 17, Public Records of Saint Lucie County, Florida
   Property Tax ID: Parcel #: 1433-701-0519-000-6
3. Size of described property: 18,295 sqft, .42 Acres
4. Project description: single family home, looking to annex this into the city of Fort Pierce.
5. Current St. Lucie County Future Land Use Designation: RU
6. Current St. Lucie County Zoning: RS-4
7. Is this a Historic property? I don't believe so.
8. Appraised value: $200,000
9. Name of Owner(s): Daniel A. Ramirez
   Signature of Owner(s): D. A. R.
   Mailing Address: 302 HOLLY AVE.
   City PORT ST. LUCIE State FL. Zip 34952
   Phone 772-573-2729 Fax

10. Name of Representative: _____

Signature of representative: _____
Mailing Address: _____
City) _____ State _____ Zip _____
Phone _____ Fax _____
E-mail: _____

INTAKE MEETINGS ARE REQUIRED FOR ALL SUBMITTALS. CALL (772) 467-3729

OFFICE USE:

DATE RECEIVED: _____ Signed: _____

File Number: _____ Check No: _____ Receipt No: _____

TRC Review: _____ Planning Board Review: _____ City Commission: _____

Ordinance No: _____ Date Approved: _____

This Instrument Prepared by and Return to:

Charles F. Posess, Esq.
Patch Reef Title Company, Inc.
9702 Reserve Boulevard
Port St. Lucie, FL 34986
Our File No.: **921132MK**
Property Appraisers Parcel Identification (Folio) Number: **1433-701-0519-000-6**

_____ Space above this line for Recording Data _____

WARRANTY DEED

THIS WARRANTY DEED, made the 24 day of **March, 2021** by **Keron R. Belgraves and Myrna I. Tamar, husband and wife**, whose post office address is **1592 SW Fortune Road, Port Saint Lucie , FL 34953** herein called the Grantors, to **Daniel A. Ramirez and Diane Ramirez, husband and wife,** whose post office address is **302 Holly Avenue, Port Saint Lucie. FL 34952**, hereinafter called the Grantee:
(Wherever used herein the terms "Grantor" and "Grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

W I T N E S S E T H: That the Grantors, for and in consideration of the sum of TEN AND 00/100'S ($10.00) Dollars and other valuable considerations, receipt whereof is hereby acknowledged, hereby grants, bargains, sells, aliens, remises, releases, conveys and confirms unto the Grantee all that certain land situate in ST. LUCIE County, State of Florida, viz.:

Lot 1, Block 31, PARADISE PARK, according to the map or plat thereof as recorded in Plat Book 8, Page 17, Public Records of Saint Lucie County, Florida

Subject to easements, restrictions and reservations of record and taxes for the year 2021 and thereafter.

TOGETHER, with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

TO HAVE AND TO HOLD, the same in fee simple forever.

AND, the Grantors hereby covenant with said Grantee that the Grantors are lawfully seized of said land in fee simple; that the Grantors have good right and lawful authority to sell and convey said land, and hereby warrant the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2021.

IN WITNESS WHEREOF, the said Grantors have signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in the presence of:

Witness #1 Signature

MICHELLE L. KINCH

Witness #1 Printed Name

Witness #2 Signature

Sherri Sullivan

Witness #2 Printed Name

_____ (Seal)
Keron R. Belgraves

_____ (Seal)
Myrna I. Tamar

State of Florida
County of St. Lucie

The foregoing instrument was acknowledged before me by means of ☒ physical presence or ☐ online notarization, this 25 day of March, 2021, by Keron R. Belgraves and Myrna I. Tamar, who are personally known to me or have produced DL as identification.

Notary Public

[SEAL]

Printed Notary Name
My Commission Expires:

MICHELLE L. KINCH
MY COMMISSION # GG 099102
EXPIRES: June 15, 2021
Bonded Thru Notary Public Underwriters

LEGAL DESCRIPTION:
LOT 1, BLOCK 31, PLAT OF PARADISE PARK, ACCORDING TO THE MAP OR PLAT THEREOF, AS RECORDED IN PLAT BOOK 8, PAGE(S) 17, OF THE PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA.

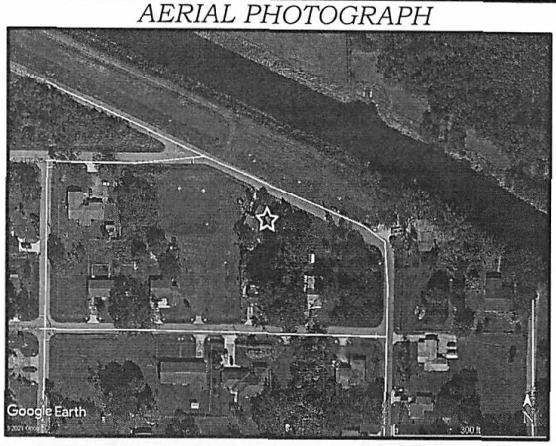
JOB NUMBER: 2103-138

FIELD WORK DATE: 03/18/2021

PROPERTY ADDRESS:
1701 WOODWARD DRIVE, FORT PIERCE, FL 34946

FLOOD INFORMATION:
PANEL NUMBER: 12111C0177K
FIRM DATE: FEBRUARY 19, 2020
FLOOD ZONE: X
BASE FLOOD ELEVATION: NA
COMMUNITY NAME: ST. LUCIE COUNTY
COMMUNITY NUMBER: 120285

AERIAL PHOTOGRAPH



SURVEYOR'S LEGEND

A/C = AIR CONDITIONING
BB = BEARING BASIS
BFP = BACKFLOW PREVENTER
BLDG = BUILDING
BLK = BLOCK
BM = BENCHMARK
C = CURVE
CATV = CABLE T.V. RISER
CB = CATCH BASIN
CL = CENTERLINE
CLF = CHAIN LINK FENCE
CLP = CONCRETE LIGHT POLE
CONC = CONCRETE
CP = CONTROL POINT
CPP = CONCRETE POWER POLE
D = DEED
DF = DRAINFIELD
ELEV = ELEVATION
EM = ELECTRIC METER
EOW = EDGE OF WATER
EP = EDGE OF PAVEMENT
F = FIELD
FCM = FOUND CONCRETE MONUMENT
FDH = FOUND DRILL HOLE
FFE = FINSHED FLOOR ELEVATION
FIP = FOUND IRON PIPE
FIPC = FOUND IRON PIPE AND CAP
FIR = FOUND IRON ROD
FIRC = FOUND IRON ROD AND CAP
FN = FOUND NAIL
FN&D = FOUND NAIL AND DISC
FND = FOUND
FPK = FOUND PK NAIL
FPKD = FOUND PK NAIL AND DISC
FRRSPK = FOUND RAILROAD SPIKE
GAR = GARAGE
HYD = FIRE HYDRANT
ID = IDENTIFICATION
L = LENGTH
LB # = LICENSED BUSINESS
LS # = LICENSED SURVEYOR
M = MEARSURED
MB = MAP BOOK
MES = MITERED END SECTION
MH = MANHOLE
MLP = METAL LIGHT POLE
OHW = OVERHEAD WIRES
P = PLAT
PB = PLAT BOOK
PC = POINT OF CURVATURE
PCC = POINT OF COMPOUND CURVATURE
PCP = PERMANENT CONTOL POINT
POB = POINT OF BEGINNING
POC = POINT OF COMMENCEMENT
PP = POOL PUMP
PRC = POINT OF REVERSE CURVATURE
PRM = PERMANENT REFERENCE MONUMENT
PT = POINT OF TANGENCY
R = RADIUS
RNG = RANGE
R/W = RIGHT OF WAY
S = SEPTIC
SEC = SECTION
SIR = SET IRON ROD AND CAP
SPKD = SET PK NAIL AND DISC
SV = SEWER VALVE
TBM = TEMPORARY BENCHMARK
TOB = TOP OF BANK
TWP = TOWNSHIP
TR = TELEPHONE RISER
TYP = TYPICAL
WIT = WITNESS
WLP = WOOD LIGHT POLE
WM = WATER METER
WPP = WOOD POWER POLE
WV = WATER VALVE

LINETYPES

= BOUNDARY LINE
= STRUCTURE LINE
= CENTERLINE
= EASEMENT LINE
= FENCE LINE
= OLD LOT LINE

SYMBOLS

= FIRE HYDRANT
= CATCH BASIN
= WATER METER
= SANITARY MANHOLE
= POWER POLE
= CABLE T.V. SERVICE
= GAS SERVICE
= ELECTRIC SERVICE
= LIGHT POLE
= TELEPHONE SERVICE
= WELL
= DRAINAGE MANHOLE
= BENCHMARK
= SANITARY SERVICE

SURVEYOR'S NOTES

1. THIS SURVEY DOES NOT DETERMINE OR INDICATE LAND OWNERSHIP.
2. THE SURVEYOR DID NOT RESEARCH OR ABSTRACT THE LAND RECORDS FOR RIGHTS-OF-WAY, EASEMENTS, RESERVATIONS, DEED RESTRICTIONS, ZONING REGULATIONS, SETBACKS, LAND USE PLAN DESIGNATIONS, ADJOINING DEEDS, LIENS, MURPHY ACT RIGHTS-OF-WAY, AREAS OF LOCAL CONCERN, OR OTHER SIMILAR JURISDICTIONAL DETERMINATIONS. TO THE EXTENT THAT THIS TYPE OF INFORMATION IS SHOWN, IT IS SHOWN SOLELY ON THE BASIS OF INFORMATION PROVIDED BY THE CLIENT OR INFORMATION OTHERWISE KNOWN TO THE SURVEYOR AND MAY NOT BE COMPLETE.
3. UNDERGROUND UTILITIES, BUILDING FOUNDATIONS, AND OTHER UNDERGROUND FIXED IMPROVEMENTS WERE NOT LOCATED, UNLESS OTHERWISE INDICATED. TO THE EXTENT THAT THIS TYPE OF INFORMATION IS SHOWN, IT IS SHOWN SOLELY ON THE BASIS OF SURFACE INDICATIONS OBSERVED BY THE SURVEYOR AND MAY NOT BE COMPLETE.
4. JURISDICTIONAL WETLANDS AND ENDANGERED OR THREATENED SPECIES HABITAT, IF ANY, THAT MAY EXIST ON OR AROUND THE SURVEY SITE WERE NOT DETERMINED OR LOCATED.
5. THE SURVEY DATE IS THE FIELD DATE SHOWN IN THE TITLE BLOCK, NOT THE SIGNATURE DATE.
6. THIS SURVEY MAP OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE SIGNATURE AND THE ELECTRONIC OR ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
7. FENCES SHOWN ON SURVEY ARE FOR ILLUSTRATIVE PURPOSES ONLY. FENCE TIES SHOWN ARE RELATIVE TO THE CENTER OF SAID FENCE. THE SURVEYOR WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM THE REMOVAL AND/OR CHANGES TO ANY FENCES UNLESS THE SURVEY WAS PROVIDED SPECIFICALLY FOR FENCE LOCATION PURPOSES.
8. PROPERTY LINES AND OR IMPROVEMENTS SHOWN WERE PHYSICALLY LOCATED BY FIELD SURVEY.
9. MONUMENTS FOUND OR SET ARE SHOWN, CALCULATED LINES AND INFORMATION IS NOTED BY (C).
10. COMPUTATIONS OF LINES AND OR DATA NOT FOUND ARE SHOWN AS (C).
11. ACCURACIES OBTAINED IN THIS SURVEY IS GREATER THAN (RURAL) 1' IN 5000', (SUBURBAN) 1' IN 7500', (COMMERCIAL) 1' IN 10,000'.
12. PRIOR TO SURVEY INFORMATION OBTAINED WAS LEGAL DESCRIPTION FROM CLIENT OR FROM PUBLICLY PUBLISHED COUNTY TAX COLLECTOR SITE, RECORDED PLATS AND OR SECTION CORNER RECORDS IF APPLICABLE.
13. IF ONLY A DIGITAL SURVEY COPY IS REQUIRED A SURVEY REPORT WILL BE PLACED IN FILE. THE DIGITAL SURVEY IS NOT FULL AND COMPLETE WITHOUT THE SURVEY REPORT FILE.

SURVEYOR'S SIGNATURE

NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OR ELECTRONIC SEAL OF THE FLORIDA LICENSED SURVEYOR BELOW. THE SURVEYOR HEREBY CERTIFIES THAT THE ELECTRONIC SIGNATURE AND SEAL HEREON MEETS PROCEDURES SET FORTH IN CHAPTER 5J-17.062 OF THE FLORIDA ADMINISTATIVE CODE, PURSUANT TO SECTION 472.025, FLORIDA STATUTES. THE SURVEYOR HEREBY CERTIFIES THAT THIS SURVEY MEETS THE STANDARDS OF PRACTICE FOR SURVEYS, SET FORTH BY THE FLORIDA BOARD OF SURVEYORS AND MAPPERS IN CHAPTER 5J-17.051 AND 5J-17.052 OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

BILL H. HYATT, JR. CERTIFICATE No. 4636 STATE OF FLORIDA LAND SURVEYOR

3.18.21
DATE

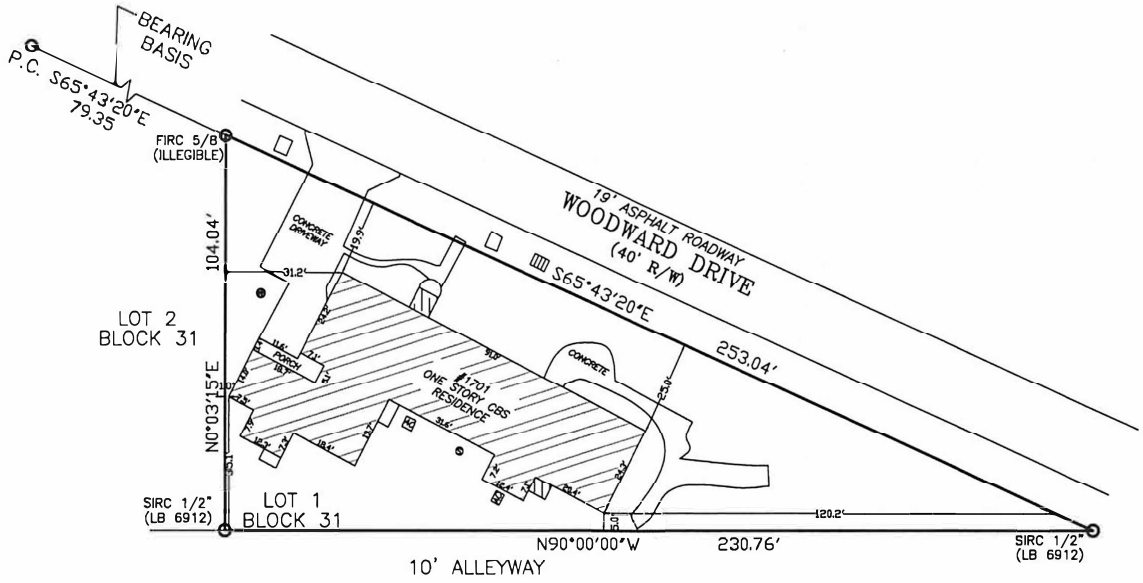
BILL HYATT
SURVEYOR AND MAPPER #4636
STATE OF FLORIDA

FLORIDA BUSINESS CERTIFICATE OF AUTHORIZATION NUMBER LB 6912

CERTIFIED TO:
DANIEL A. RAMIREZ
SUCCESS MORTGAGE PARTNERS, INC., ISAOA/ATIMA
PATCH REEF TITLE COMPANY, INC.
OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY

KNOW IT NOW, INC.
PROFESSIONAL SURVEYING AND MAPPING
5220 US HIGHWAY 1, #104
VERO BEACH, FL 32967
PHONE - (888) 396-7770
WWW.KINSURVEY.COM

MAP OF BOUNDARY SURVEY PREPARED FOR DANIEL A. RAMIREZ



NOTABLE CONDITIONS:

PROPERTY APPEARS TO BE SERVICED BY PUBLIC UTILITIES.

NOTES:

ALL BEARINGS AND DISTANCES SHOWN ARE RECORD AND MEASURED, UNLESS OTHERWISE SHOWN.
BEARINGS ARE BASED UPON THE RECORD BEARING FOR THE SOUTHERLY RIGHT OF WAY LINE OF WOODWARD DRIVE..

NORTH ARROW & GRAPHIC SCALE

0' 40'
1" = 40'

JOB # - 2103-138	REVISION -
FIELD DATE - 03/18/2021	REVISION -
DRAWN BY - J.M.	REVISION -
REVISION -	REVISION -
REVISION -	REVISION -
REVISION -	REVISION -

FLORIDA BUSINESS CERTIFICATE OF AUTHORIZATION NUMBER LB 6912

KNOW IT NOW, INC.
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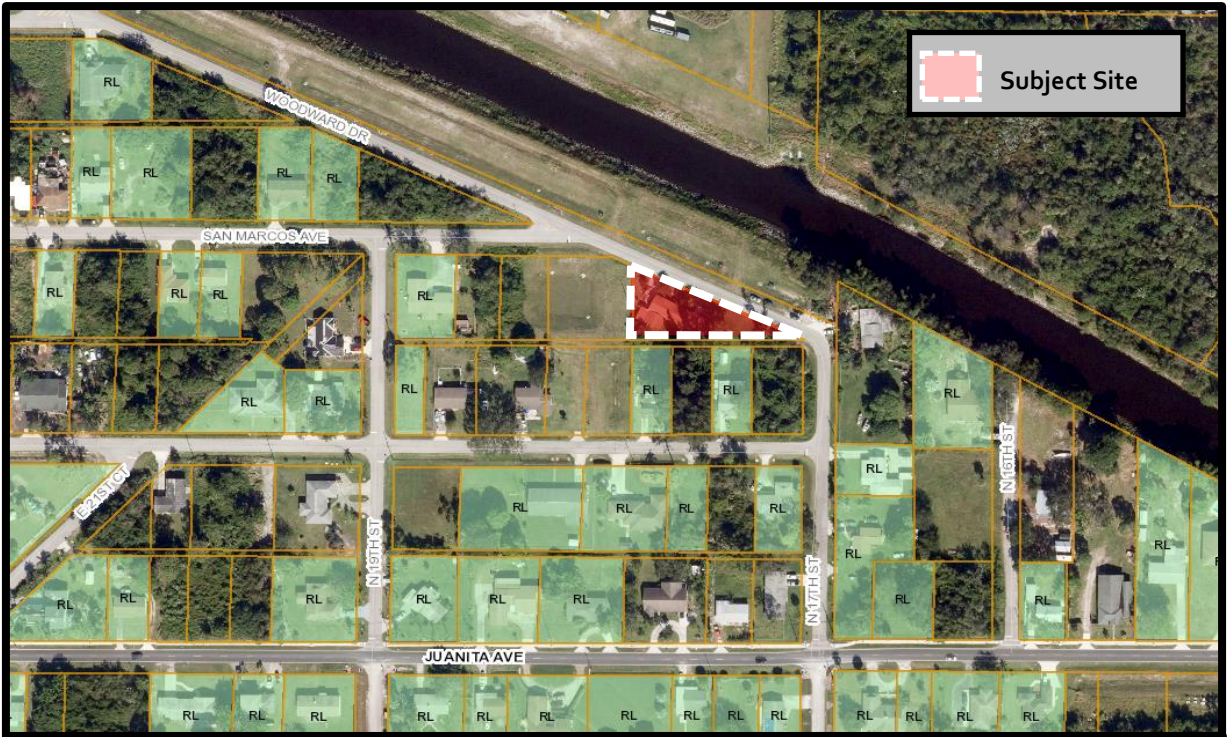
WWW.KINSURVEY.COM



THE SUNRISE CITY
FORT PIERCE
Florida

Application for Annexation
1701 Woodward Drive
Aerial Map

N
W E
S



THE SUNRISE CITY
FORT PIERCE
Florida

Application for Annexation
1701 Woodward Drive
Future Land Use Map

N
W E
S


Subject Site
WOODWARD DR
SAN MARCOS AVE
R-1
R-1
R-1

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

May 19, 2021

Daniel Ramirez
302 Holly Avenue
Port St. Lucie, FL 34952

Subject: **Annexation – 1701 Woodward Drive**
Technical Review Project # 21-02000005

Fort Pierce Planning:

1. The St. Lucie County Future Land Use is Residential Urban 5 du/ac (RU), and the Zoning is Residential Single Family, 4 Dwelling Units/Acre (RS-4). As such once annexed into the City it will be given our Future Land Use of Single Family Low Density (R-1) & Zoning of Low Density Residential (RL).

Please provide a written response to all TRC comments and provide an electronic submittal of materials (complete submittal packet). The presented review is specific to the proposed facility. Please contact me should you have any questions regarding the project at (772) 467-3742 or by e-mail: bcreagan@cityoffortpierce.com.

Sincerely,

Brandon Creagan, MCRP, LEED Green Associate

Planner

THE SUNRISE CITY
FORT PIERCE
Florida
ENGINEERING
DEPARTMENT

TO : Brandon Creagan, Planner

FROM : John R. Andrews, P.E., City Engineer

RE : Annexation – 1701 Woodward Drive
TRC No. 21-02000005

DATE : May 18, 2021

RECEIVED
MAY 20 2021
CITY OF FORT PIERCE
PLANNING & ZONING

This is to advise you that we have completed the review of the following documents as received by this office on May 7, 2021:

- ☑ Annexation Application
- ☐ Test Reports & Related Documents
- ☐ Record Drawings
- ☐ Clearances from all applicable Local, State and Federal Agencies
- ☐ P/D Drawings
- ☐ Certificate of Completion
- ☐ Permits from applicable Local, State & Federal Agencies

Based on our reviews and appropriate site final inspection, we

- ☑ Recommend
- ☐ Do Not Recommend

- ☑ Approval of Annexation
- ☐ Building Permit
- ☐ C/O

Developer, Owner, Engineer, Contractor and other members of the Development Team must be aware, the above recommendation is based only on the construction requirements of the engineering plans and other engineering documentation approved by this department. The Development Team shall be responsible for the compliance with other City department requirements and all approved documents, as well as Local, State and Federal regulations. The development requirements for this project may necessitate additional construction requirements that are not subject to this department's review for approval.

- ☐ See attached for engineering comments

JRA/jra

Q:\ENGINEERING\Site Development Projects\A\Annexations\1701 Woodward\Submittal No. 1 - 050721\Annexation Approval - 051821.docx

THE SUNRISE CITY
FORT PIERCE
BUILDING DEPARTMENT Florida

BUILDING DEPARTMENT
TECHNICAL REVIEW COMMITTEE (TRC)
COMMENT FORM

Meeting Date: 5.20.21
Property Address: Annexation – 1701 Woodward Drive

Please be advised that the project may trigger the requirements indicated below:

☑ 1. Building Official or his representative has no comment at the time of this meeting, but reserves submission of comments upon completion of the official plan review.

☐ 2. Pre-construction meeting with the City's Building Department is requested.

☐ 3. Any construction will need to meet the requirements of the Florida Building Code 7th Edition.

☐ 4. Means of egress is required.

☐ 5. Means of ingress is required.

☐ 6. Must meet the following Accessibility requirements:

- ☐ Accessible route
- ☐ Handicapped parking spaces
- ☐ Means of egress

☐ 7. Change of Use required

- ☐ to include a signed and sealed Life Safety Plan
- ☐ to include a signed and sealed detailed comprehensive building plan.

☐ 8. Property exists in Special Flood Hazard Area. All Federal and State requirements shall be addressed.

☐ 9. Flood Development Permit required.

☐ 10. Building Permit required.

☐ 11. Signed and sealed construction drawings required.

☐ 12. Will need to meet the Fire Code.

☐ 13. Sprinkler system is required.

☐ 14. Smoke alarm system is required.

☐ 15. Other

Additional Comments/Requirements:

Building Official's or Representative's Signature _____ Date: 5/14/21

THE SUNRISE CITY
FORT PIERCE
Florida
POLICE DEPARTMENT
"In Honor We Serve"

Technical Review Committee meeting

May 20, 2021

Case # 21-02000005

Planner: Brandon Creagan

Annexation

1701 Woodland Dr., Ft. Pierce.

Comments:

No comments at this time.

Officer Damian Spotts

Crime Prevention Practitioner

Fort Pierce Police Department.

Fort Pierce Utilities Authority
Water/Wastewater Engineering
1701 South 37th Street
Fort Pierce, FL 34947
772.466.1600 x3473

Technical Review Committee Meeting

May 20, 2021

TECHNICAL REVIEW PROJECT # 21-02000005
Annexation- 1701 Woodward Drive
Comments

FPUA W/WW Engineering: No comment

FPUA Electric & Gas Engineering: No comment.

Planning Board **7. c.**

Meeting Date: 07/14/2021

Information

REQUESTED ACTION

Conditional Use - Orange Blossom Storage - 4204 Okeechobee Road

LOCATION

4204 Okeechobee Road

RESPONSIBLE STAFF

Brandon C. Creagan, MCRP, LEED Green Associate, Senior Planner

RECOMMENDATION

Approval

Attachments

Staff Report
Application & Supporting Documents
Aerial Map
Future Land Use Map
Zoning Map
TRC Comments

Form Review

Form Started By: Brandon Creagan Started On: 07/08/2021 11:24 AM

Final Approval Date: 07/08/2021

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

TO:	Member of the City of Fort Pierce Planning Board
THROUGH:	Jennifer Hofmeister-Drew, AICP, LCAM, Planning Director
FROM:	Brandon C. Creagan, MCRP, LEED Green Associate, Planner
RE:	**Application for Conditional Use – Orange Blossome Self-Storage** **4204 Okeechobee Road**
BOARD DATE:	July 14, 2021

STAFF REPORT

Property Owner:	School Board of St. Lucie County Florida 9461 Brandywine Lane Port St. Lucie, FL 34986
Applicant/ Representative	HJA Design Studio 50 East Ocean Blvd, Suite 101 Stuart, FL 34994
Applicant's Request:	Approval of a Conditional Use with No New Construction to operate a self-storage business.
Location(s):	4204 Okeechobee Road
Parcel ID:	2418-434-0001-000-9
Future Land Use:	General Commercial (GC)
Current Zoning:	General Commercial Zone (C-3)

	North	East	South	West
Surrounding FLUM:	GC	GC	GC	GC
Surrounding Zoning:	C-3	C-3	C-3	C-3

Utilities:	FPUA

Staff Analysis:

Request

In accordance with Sections 125-187, 125-200, and 125-237 of the City Code, the applicant and representative HJA Design Studio, and the property owner, School Board of St. Lucie County Florida, are seeking a Conditional Use with No New Construction approval to operate a 1,290-unit self-storage facility at 4204 Okeechobee Road. The property is 11.93 acres and is part of the Orange Blossome Business Center complex. The property has a Future Land Use of General Commercial (GC) and a compatible zoning classification of General Commercial (C-3).

The subject building was constructed in 1984 and is approximately 141,894 square feet. This building was formally apart of the Orange Blossom Mall and this building specifically was where Sears was located. Eventually the building was sold to the St. Lucie County School Board where they used it as their main campus until 2017 when hurricane damage from Hurricane Maria caused flooding to the building. The applicant will be providing 1,290 self-storage units that will be completely enclosed within the building. All of these units will be climate controlled and no direct access to any unit will be provided on the outside of the building. Two loading and unloading access areas are located on the rear exterior of the building and main customer access will be provided at the front of the building. The access to the building will be limited and customers will need a pin or access code to enter the non-public areas of the building. 24/7 access by police and fire is being provided through a Knox-box at main access door to the building.

The property currently has approximately 800 parking spaces on site. The code does specifically list parking requirements for self-storage, the use parking category that is most similar to this would be the parking requirements for manufacturing, wholesale trade, and warehouse establishments. The parking calculation pursuant to City Code 125-315 (d)(3) for these uses would be 1 (one) parking space per 600 square feet of gross floor area. As such, the parking requirement for the proposed used would be approximately 235 parking spaces. Historically self-storage uses do not generate the amount of traffic at any one time that would warrant the need for 235 parking spaces. However, since this is being proposed within an already existing commercial center the parking spaces are already present and available to the business should they need to use them. Based on the amount or parking spaces available in and around the site this proposed use fully meets the requirements of the city parking code.

The whole entire Orange Blossom site will be undergoing a complete renovation and rehabilitation. This site has a master HOA that controls all of the development in and around the site. The Master HOA will be responsible for updating all of the landscaping and lighting in cooperation and coordination with this applicant. This proposed use is only the first of a multi-step and multi-year process to redevelop this site so that that it can once again become an active and central part of the city. The landscaping and lighting will be addressed through the Building Permit process.

Zoning & Land Use

The site is located within the C-3 District, which is intended to provide for a broad variety of business activities including shoppers' goods stores, convenience goods and service establishments, offices, and tourist/entertainment facilities. The proposed use presents an indoor limited access self-storage facility, that will be secured and monitored 24/7. The site itself is an existing commercial space with existing landscaping, parking, and lighting features that will be brought up to current City standards as the site is being renovated and re-retrofitted to meet the needs of the citizens of the area.

Technical Review Committee

All affected City and County Departments have reviewed the proposed Conditional Use and have provided conditional approval based on compliance with requirements of the City Code and the Comprehensive Plan. The comments generated from the technical review and any responses by the applicant have been provided.

Staff Recommendation

The requested Application for Conditional Use with No New Construction meets the criteria specified in Section 125-237 of the City Code, the Comprehensive Plan, and does not adversely affect the public health, safety, convenience, and general welfare. Therefore, Planning Staff recommends APPROVAL of the project as presented.

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT
Florida

Conditional Use – No New Construction

Property address or Location_____

Parcel ID #(s)_____

Project description_____

Property Owner(s)

Street Address

City State Zip

Phone Number

Email Address

Applicant/Representative, Title, Company

Street Address

City State Zip

Phone Number

Email Address

Property Owner(s) Acknowledgements: *- This application will not be considered complete without the signature of all property owners of record, which shall serve as an acknowledgement of the submission of this application. The property owner's signature below shall also authorize the Applicant (if other than the property owner) and/or Representative to act in his/her behalf for the purposes of seeking approval for the application described herein.*

Marvin E. Sanders

Property Owner(s) Signature(s)

STATE OF FLORIDA -- COUNTY St. Lucie

The foregoing instrument was acknowledged before me this 2nd day of December, 2020, by Marvin E. Sanders who is personally known to me ~~or has produced~~ _____ as identification.

Signature of Notary (seal)

JUDY A. HAMM
Notary Public - State of Florida
Commission # GG 216927
My Comm. Expires Jun 20, 2022
Bonded through National Notary Assn.

INTAKE MEETINGS ARE REQUIRED FOR ALL SUBMITTALS. CALL (772) 467-3729

TO BE COMPLETED BY STAFF

Zoning	Future Land Use	Total Acres	Historic District	Historic Designation
				Contributing Individual Non-Contributing None

Pre-Application Meeting Date_____ Fees_____ Control #_____ B. Permit #_____

Intake Planner_____

Planner Assigned_____

Approved By_____Date _____

Comments_____

_____

_____

_____

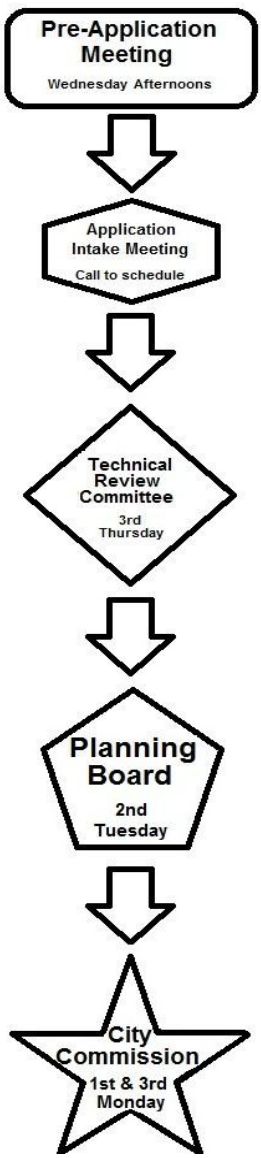
Intake Date Stamp

❑ CONDITIONAL USE: NO NEW CONSTRUCTION

Submit one original, seven (7) hard copies and one (1) CD of the following for initial submittal, subsequent submittals will be required:

- ❑ *If no site improvements are required:*
  - ❑ As-built survey
  - ❑ Floor plan of existing building(s)
- ❑ *If parking and drainage improvements are required:*
  - ❑As-built survey;
  - ❑Site plan, to scale, including existing improvements and proposed parking, driveways, landscaping & storm drainage;
  - ❑Lighting plan
- ❑ Complete, notarized application

Application Outlook



Application Type:

- ❑ Conditional Use: No new construction with no site improvements
- ❑ Conditional Use: No new construction with parking and drainage improvements

Site Information:

Building Size _____ Parking Spaces:_____
(i.e. 137, 612 sq. ft. under air)

Surrounding Uses: *(i.e. single family home, retail, industrial, etc.)*

North	South	East	West

The application for conditional use with the application for site plan review, when not exempt in accordance with the requirements of section 22-75, shall be reviewed as a unit in accordance with the requirements of section 22-58 except that:

(1) The city commission shall hold a public hearing in accordance with the provisions of section 22-143 prior to acting on the application for conditional use.

(2) In the event the city planning board disapproved the application for conditional use or in case of a protest against said application signed by twenty (20) per cent of the owners within five hundred (500) feet of the area included in said application, such application shall not be approved except by a four-fifths vote by the city commission.

(3) In permitting a conditional use or the modification of an existing conditional use, the city commission may impose, in addition to those standards and requirements expressly specified in this chapter, any condition which it finds to be necessary to protect the best interest of the surrounding property of the city.

Via FedEx
1st Resubmittal Date: March 15, 2021
2nd Resubmittal Date: June 23, 2021

Jennifer Hofmeister,
Planning Director
City of Fort Pierce Planning Department
100 N. U.S. Highway 1
Fort Pierce, FL 34950

RE: Conditional Use Self Storage – Orange Blossom Business Center
Resubmittal

Technical Review Project # 20-04000026

Dear Jennifer,

This is a resubmittal of the Conditional Use application for a portion of the Orange Blossom Mall site as reference above. In response to the January 21, 2021 staff report, please find revised detailed responses as required to facilitate the processing of this conditional use application.

Response to Planning Department Comments

1. It is staffs understanding that the self-storage use will be 100% contained inside the existing building and that there will be no exterior improvements to the building except for a sign.
   Response: Yes, that is correct.

2. Provide a detailed project narrative that explains the project and what it entails.
   Response: A detailed project narrative is included in this resubmittal.

3. Are there any landscaping improvements proposed for the site?
   Response: Landscape areas outside of the building will be updated.

HJA Design Studio
50 East Ocean Boulevard, Suite 101 Stuart, Florida USA 34994 T 772.678.7200 F 772.678.7201

4. How many storage units will be contained in the building?
   Response: There will be approximately 1,290 storage units per the industry standard calculation. *(30% hallways and other leasable area, & 70% storage unites at 80 square feet typical unit size) (137,612 SF x 70% = 88,361.7 / 80 SF)*

5. Provide a floor plan for how the proposed used will be laid out in the building.
   Response: See the conceptual floor plan attached.

6. What are the anticipated daily trips to and from the site?
   Response: See the attached trip generation chart provided be Susan O'Rourke.

Response to Police Department Comments

1. Please ensure the parking lot and building exterior are illuminated to or beyond the standards set forth by city code.
   Response: Understood. The parking lot and building exterior will be illuminated to or beyond the standards set forth by city code.

We look forward to hearing that this application is complete and working with you on this Conditional Use application to the Orange Blossom Mall project. Thank you for your assistance with this application.

Sincerely,



Michael Houston
President, HJA Design Studio

HJA Design Studio
50 East Ocean Boulevard, Suite 101 Stuart, Florida USA 34994 T 772.678.7200 F 772.678.7201

Alejandro Zurita

To: David Brongo
Subject: RE: Self storage use

From: terri wilkin <orangeblossombc@gmail.com>
Sent: Wednesday, June 9, 2021 12:13 PM
To: David Brongo <dbrongo@puglieseco.com>
Cc: David Ellis <dellis@primerockencap.com>; apugliese3@puglieseco.com; Michael O'Neill <moneill@primerockencap.com>
Subject: Re: Self storage use

David

Orange Blossom Investments LLC is in full support of Pugliese having a Self-storage facility at 4204 Okeechobee Road which has been included into the declarations sent to you last evening.

Please review and get back to us with any concerns. Upon approval, I will sign and submit to the school board. In the interim, I would advise you make a call to Marty Saunders reiterating how important it is for him to be on board with this agreement.

Respectfully,

Terri Wilkin
Property Manager, Broker

Tel: (772) 429-1200
Fax: (772) 429-1202
Mob: (772) 486-3686
A: 4146 Okeechobee Rd, Ft. Pierce FL 34947
Web: www.orangeblossombusinesscenter.com

ORANGE BLOSSOM BUSINESS CENTER

> On Jun 4, 2021, at 12:46 PM, David Brongo <dbrongo@puglieseco.com> wrote:
>
> Terri,
>
> I order to get the city to process our approval application while we work on revise the POA documents with Primerock we need to provide written communication from you stating the Orange Blossom Investment LLC supports self-storage in the building at 4204 Okeechobee Road.

Please provide a letter with the proper signature block, which I provide below. An email may work but a letter will definitely get the city to proceed with our application.

Signature Block:
"ORANGE BLOSSOM INVESTMENT, L.L.C., a Florida limited liability company

_____ By: _____
Print Name _____ Terri Wilkin, Authorized Representative"

David A. Brongo Jr.
101 Pinapple Grove Way
Suite 200
Delray Beach, FL 33444
Office: 561-454-1620
Mobile: 954-258-3152

-----Original Message-----
From: Michael O'Neill <moneill@primerockencap.com>
Sent: Thursday, June 3, 2021 4:54 PM
To: David Brongo <dbrongo@puglieseco.com>
Cc: David Ellis <dellis@primerockencap.com>; terri wilkin <orangeblossombc@gmail.com>
Subject: Self storage use

Dear david.
I really enjoyed meeting with you and Anthony today, and look forward to working next to you. As we discussed, we will support Self Storage in your building and will memorialize it as part of the revised POA which will cover overall uses, parking areas, common areas, and common area maintenance. The updates will insure the quality of the complex and bring the documents up to today's contemplated uses. It will need to be signed by the Board of Education, Puglissi, Orange Blossom, and Prime Rock. I hope we can wrap up the final document in the next week. Let me know your comments to the draft revisions and we will work in good faith to get it done quickly. Based on where we are, the City should feel comfortable proceeding with your approvals, final approval subject to the fully executed revised POA.

Sent from my iPad

PROPOSED SELF-STORAGE AT THE ORANGE BLOSSOM BUSINESS CENTER

Land America, LLC proposes to establish a limited-access self-storage facility in the existing +/- 141,894 gross square feet building, located at 4204 Okeechobee Road. The building, currently unoccupied, is composed of 137,612 square feet of finished floor and under-air facility, and 4,282 square feet of covered loading and porte-cochere areas which are located along the rear side of the existing building. The subject building is an old Sears department store as it used to be owned by Sears, Roebuck & Company, which was a major anchor at the former Orange Blossom Mall. Today, the entire +/- 51-acre mall is being rebranded as the Orange Blossom Business Center. The subject 11.93-acre site containing the former 141,894 gross square feet building Sears department store is currently owned by the Saint Lucie County School Board.

The establishment of the proposed self-storage use requires CU (Conditional Use) approval from the City of Fort Pierce City Council. The current building layout provides for three existing customer loading and/or access areas which will be used for self-storage clients without any external modifications to the exiting building. Two loading and/or access areas are located at the rear of the existing building. The third access area to the building for customer pick-up and drop-off is located along the front of the building. The facility would provide approximately 1,290 storage units which are all located in the interior of the existing building. No exterior storage doors to individual units or outside storage areas are proposed. The objective of the layout of the proposed climate controlled, limited-access self-storage facility is to provide minimal disruption to the surrounding properties. The existing landscape areas around the building will be restored and enhanced with new landscaping materials in accordance with Code. Security is very important to the proposed self-storage facility, both outside and inside the building. Normal daily use and access will be closely monitored with limited access to the building. The exterior emergency doors are designed to be used to exit the building and do not have door handles on the outside of the building to prohibit unauthorized access. A key switch and/or Knox-box is proposed at the main access door to allow for 24/7 fire and/or police access into the facility.

The proposed self-storage facility will serve the City of Fort Piece growing population and supply the demand for a climate-controlled storage facility in the City and surrounding neighborhoods. In addition, the self-storage use minimizes traffic on the surrounding roads since storage facilities are low traffic generators compared to commercial retail uses. Market feasibility and traffic studies/statements accompany the subject application for CU approval. The use is compatible with the commercial areas and residential neighborhoods surrounding the property. Land America, LLC believes that the proposed limited-access self-storage use complies with the CU criteria for approval. We firmly believe this is a perfect use for the existing building.

Michelle Franklin, CFA -- Saint Lucie County Property Appraiser -- All rights reserved.

Property Identification

Site Address: 4204 OKEECHOBEE RD
Sec/Town/Range: 19/35S/40E
Parcel ID: 2418-434-0001-000-9
Jurisdiction: Fort Pierce

Use Type: 8300
Account #: 27303
Map ID: 24/18S
Zoning: General Co

Ownership

School Board Of St Lucie Co Fl

9461 Brandywine LN
Port St Lucie, FL 34986



Legal Description

18/19 35 40 FROM SE COR SEC 18 RUN N 01 28 11 E 358.41 FT TO INT OF NELY EXT OF NWLY R/W OKEE RD, TH S 52 39 19 W 1042.23 FT, TH N 37 20 41 W 291.16 FT TO POB, TH S 52 39 19 W 653.41 FT, TH N 76 33 50 W 5.35 FT TO PC OF CURVE CONC NELY, R 229 FT AND CA 39 13 09, TH NWLY 156.75 FT TO P OF T, TH N 37 20 41 W 155.55 FT TO PC OF CURVE CONC ELY, R 139 FT AND CA 24 29 05, TH NLY 59.40 FT TO P OF T, TH N 12 51 36 W 151.85 FT TO PC OF CURVE CONC WLY, R 436 FT AND CA 15 05 01, TH NLY 114.78 FT TO P OF T, TH N 27 56 37 W 3.71 FT TO PC OF CURVE CONC ELY, R 464 FT AND CA 15 29 15, TH NLY 125.42 FT TO P OF T, TH N 12 27 22 W 67.47 FT TO PC OF CURVE CONC ELY, R 464 FT AND CA 04 28 35, TH NLY 36.25 FT, TH N 52 39 19 E 492.21 FT, TH S 37 20 41 E 607.53 FT, TH S 82 20 41 E 35.36 FT, TH S 37 20 41 E 193.84 FT TO POB (11.93 AC) (OR 1422-2930)

Current Values

Just/Market Value:	$7,036,700
Assessed Value:	$7,036,700
Exemptions:	$7,036,700
Taxable Value:	$0

Property taxes are subject to change upon change of ownership.

- **Past taxes are not a reliable projection of future taxes.**
- **The sale of a property will prompt the removal of all exemptions, assessment caps, and special classifications.**

Taxes for this parcel: SLC Tax Collector's Office
Download TRIM for this parcel: Download PDF

Total Areas

Finished/Under Air (SF):	126,231
Gross Sketched Area (SF):	141,894
Land Size (acres):	11.93
Land Size (SF):	519,670.8

Building Design Wind Speed

Occupancy Category	I	II	III & IV
Speed	140	150	160

Sources/links:

Sale History

Date	Book/Page	Sale Code	Deed	Grantor	Price
Aug 3, 2001	1422 / 2930	XX01	WD	Fort Pierce Properties LLC,	$1,650,000
Feb 24, 2000	1283 / 2743	XX00	WD	Sears Roebuck and Co	$750,000
Apr 1, 1983	0400 / 0601	XX01	CV		$0

Building Information (1 of 1)

Finished Area: 126,231 SF

Gross Sketched Area: 141,894 SF

Exterior Data

View:	Roof Cover: Tar & Gravel	Roof Structure: BarJst/Rigid
Building Type: LROF	Year Built: 1984	Frame:
Grade: Y_C	Effective Year: 2000	Primary Wall: Perma Stone
Story Height: 1 Story	No. Units: 2	Secondary Wall:

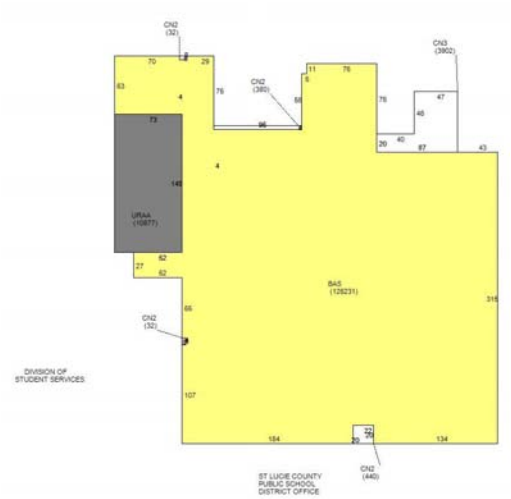
Interior Data

Bedrooms: 0
Full Baths: 0
Half Baths: 0
A/C %: 100%

Electric: MAXIMUM
Heat Type: FrcdHotAir
Heat Fuel: ELEC
Heated %: 100%

Primary Int Wall:
Avg Hgt/Floor: 0
Primary Floors: Carpet
Sprinkled %: 100%





Sketch Area Legend

Sub Area	Description	Area	Fin. Area	Perimeter
BAS	BASE AREA	126231	126231	1966
CN2	CANOPY	884	0	330
CN3	CANOPY	3902	0	306
URAA	Utility Room Attached Average	10877	0	444

Special Features and Yard Items

Type	Qty	Units	Year Blt
TRIPLE LIGHT	1	4	1975
DOUBLE LIGHT	1	1	1975
ASP1 HIGH	1	300000	1975
CEMENT CURB	1	3840	1975
CEMENT CURB	1	77	1984

Current Year Values

Current Values Breakdown

Building:	$5,854,400
Land:	$1,182,300
Just/Market:	$7,036,700
Ag Credit:	$0
Save Our Homes or 10% Cap:	$0
Assessed:	$7,036,700
Exemption(s):	$7,036,700
Taxable:	$0

Current Year Exemption Value Breakdown

Tax Year	Grant Year	Code	Description	Amount
2020	2002	8600	Board of Public Instruction	$7,036,700

Current Year Special Assessment Breakdown

This does not necessarily represent the total Special Assessements that could be charged against this property. The total amount charged for special assessments is reflected on the most current tax statement and information is available with the SLC Tax Collector's Office.

Historical Values

Year	Just/Market	Assessed	Exemptions	Taxable
2020	$7,036,700	$7,036,700	$7,036,700	$0
2019	$7,106,800	$7,106,800	$7,106,800	$0
2018	$7,176,800	$7,176,800	$7,176,800	$0

Permits

Number	Issue Date	Description	Amount	Fee
F90000431D	Apr 1, 1990	Demolition	$1,000	$1,000
F91000011	Jan 4, 1991	Alterations/Remodeling	$3,000	$3,000
F92-000567	May 15, 1992	Alterations/Remodeling	$42,000	$42,000
F92-000901	Jul 24, 1992	Alterations/Remodeling	$30,000	$30,000
BP14-1620	Jun 23, 2014	Electric	$3,950	$155
BP14-2140	Aug 13, 2014	Electric	$1,000	$178

Notice: This does not necessarily represent all the permits for this property.
Click the following link to check for additional permit data in Fort Pierce

All information is believed to be correct at this time, but is subject to change and is provided without any warranty.
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/

Market Demand Study

Self-Storage @ Orange Blossom Business Center

4204 Okeechobee Road
Ft. Pierce, Florida 34947
February 17, 2021

Purpose

To provide a Self-Storage Market Study for a proposed location at the Orange Blossom Business Center in the City of Fort Pierce, Florida. This study provides an offsite examination of the subject location which consists of a snapshot of the self-storage competitors in the surrounding market and the demographic profile of the subject market. This information is used to determine the need and development feasibility of additional self-storage in the area.

Site Review

ACCESS & VISIBILITY:

The subject facility is proposed on the north side of Okeechobee Road, approximately 1 mile east of Interstate 95 and just west of the Okeechobee Road/Virginia Avenue intersection. The subject site is the old Sears & Roebuck department store property which is located on the westernmost portion (11.93 acres) of the Orange Blossom Business Center, formerly known as the Orange Blossom Mall. The 126,231 gross square foot building is currently vacant. The 11.93-acre property is currently owned by the Saint Lucie County School Board.

AERIAL VIEW



TRAFFIC COUNTS:

The subject site is located along the Okeechobee Road corridor, which appears to be one of the most heavily traveled roadways within the City of Fort Pierce with 30,500 AADT (per FDOT - 2021) and will have a high level of visibility.

LOCATION RELATIVE TO COMPETITORS:

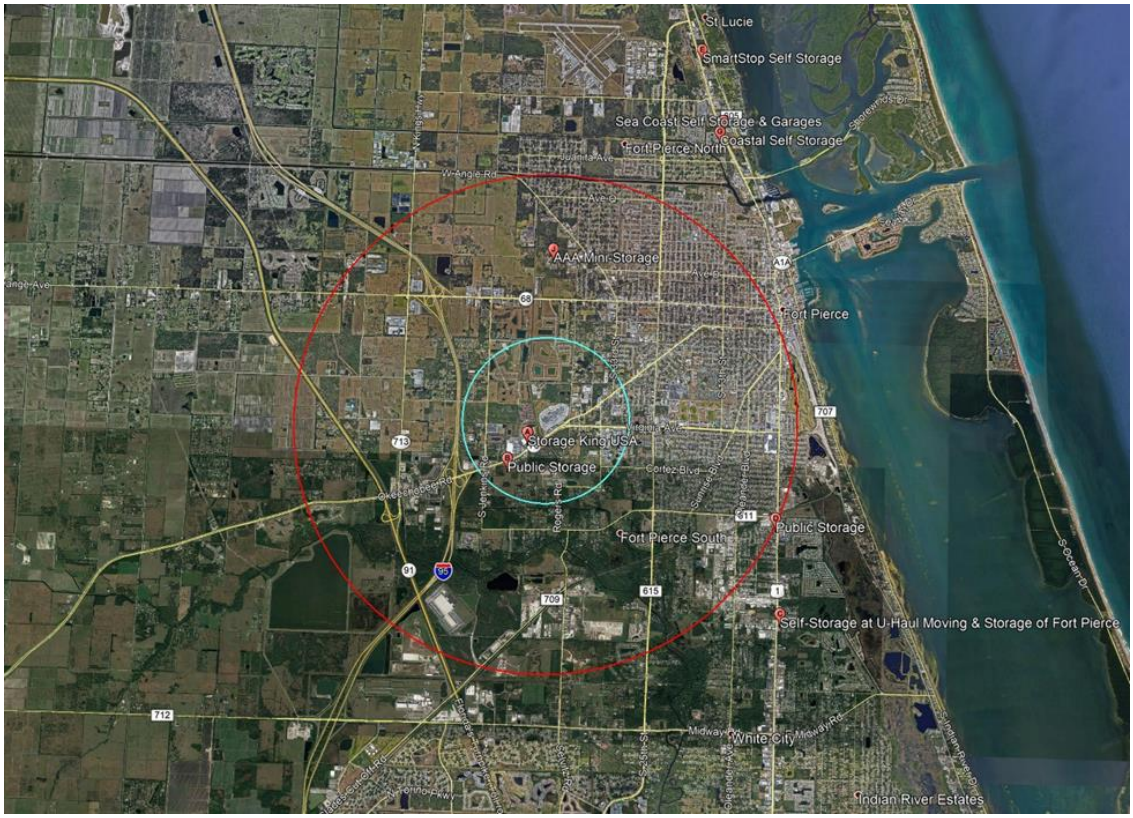
The subject facility is in an ideal location for self-storage as there is only two competitors (Public Storage located at 5221 Okeechobee Road and Storage King located at 4892 Okeechobee Road) within a 1-mile radius of the site and only 4 competitors within a 3-mile radius. The two closest facilities are single story, multiple garage style buildings that were built over 30 years ago. The proposed facility would be state-of-the-art; completely enclosed single-story building, providing 100% climate-controlled units. Once constructed, the subject facility will be the only 100% climate-controlled self-storage facility in Fort Pierce.

1-Mile Radius

Name of Facility	Street Address	City, State	Total Square Footage	Climate Controlled Sq. Ft.	Non-Climate Controlled Sq. Ft.
Public Storage	5221 Okeechobee Rd	Ft Pierce, Florida	42,535	14,000	28,535
Storage King	4892 Okeechobee Rd	Ft Pierce, Florida	58,500	35,900	22,600

3-Mile Radius

Name of Facility	Street Address	City, State	Total Square Footage	Climate Controlled Sq. Ft.	Non-Climate Controlled Sq. Ft.
Public Storage	3125 S US Highway 1	Ft Pierce, Florida	74,000	5,000	69,000
AAA Mini Storage	4400 Metzger Rd	Ft Pierce, Florida	43,160	16,900	26,260
Public Storage	5221 Okeechobee Rd	Ft Pierce, Florida	42,535	14,000	28,535
Storage King	4892 Okeechobee Rd	Ft Pierce, Florida	58,500	35,900	22,600



FEASIBILITY REPORT:

The industry standard for determining if a market can support additional self-storage facilities is based on the square foot per person. Markets that can presumably support additional self-storage facilities will have a square foot per person of 12 or less. Markets that are deemed saturated will have a square foot per person more than 12. As you can see in the charts below, the square foot per person within the 1 and 3-mile radius are well below 12 persons per square foot prior to the proposed facility being approved. If the proposed facility is approved and constructed, the persons per square foot would be below 7 within the 1 and 3-mile radius for all the climate- controlled facilities. Therefore, the market area can support the proposed facility.

Chart indicating the existing Self-Storage facilities within the market area:

All Facilities not incl. Proposed:		
Radius	**1-mi.**	**3-mi.**
Gross SF of A/C Facilities	**49,900**	**71,800**
Efficiency	**0.7**	**0.7**
Net Sq. Ft. of All Facilities	**86,065**	**196,655**
Total Population	**19,957**	**30,060**
SF/Person of All Facilities	**4.31**	**6.54**
SF/Person A/C Only	**1.75**	**1.67**

Chart indicates the market area after the proposed 126,231 sq. ft. facility is built:

All Facilities (Including the 126,231 Proposed Facility)		
Radius	**1-mi.**	**3-mi.**
Gross SF of A/C Facilities	**176,131**	**198,031**
Efficiency	**0.7**	**0.7**
Net Sq. Ft. of All Facilities	**174,427**	**285,017**
Total Population	**19,957**	**30,060**
SF/Person of All Facilities	**8.74**	**9.48**
SF/Person A/C Only	**6.18**	**4.61**

MARKET RENTS:

Utilizing the unit mix (size of the storage bays) that we have developed over the years, the following chart indicates a snapshot of today's rents showing that the market rates are above $14.25 per square foot.

Summary of Unit Mix and Rental Structure (1st Floor)									
				Leasable SF					
Type	**% of Units**	**Length**	**Width**	**Per Unit**	**Current Rent**	**Units**	**Monthly Rent**	**Annual Rent**	**Total SF**
Indoor, Climate Controlled	0.17	5	5	25	$32.00	17.00	544.00	$6,528	425
Indoor, Climate Controlled	0.33	5	10	50	$73.33	33.00	2,420.00	$29,040	1,650
Indoor, Climate Controlled	0.33	10	10	100	$115.67	33.00	3,817.00	$45,804	3,300
Indoor, Climate Controlled	0.12	10	15	150	$158.67	12.00	1,904.00	$22,848	1,800
Indoor, Climate Controlled	0.05	10	20	200	$204.00	5.00	1,020.00	$12,240	1,000
Summary of Unit Mix and Rental Structure (Above 1st Floor)									
Number of Floors Above 1st Floor	**0**								
				Leasable SF					
Type	**% of Units**	**Length**	**Width**	**Per Unit**	**Current Rent**	**Units**	**Monthly Rent**	**Annual Rent**	**Total SF**
Indoor, Climate Controlled	0.17	5	5	25	$0.00	-	-	$0.00	-
Indoor, Climate Controlled	0.33	5	10	50	$0.00	-	-	$0.00	-
Indoor, Climate Controlled	0.33	10	10	100	$0.00	-	-	$0.00	-
Indoor, Climate Controlled	0.12	10	15	150	$0.00	-	-	$0.00	-
Indoor, Climate Controlled	0.05	10	20	200	$0.00	-	-	$0.00	-
Summary of Unit Mix and Rental Structure (Total/Average)									
				Leasable SF					
Type	**% of Units**	**Length**	**Width**	**Per Unit**	**Current Rent**	**Units**	**Monthly Rent**	**Annual Rent**	**Total SF**
Indoor, Climate Controlled	0.17	5	5	25	$32.00	17.00	544.00	$6,528	425
Indoor, Climate Controlled	0.33	5	10	50	$73.33	33.00	2,420.00	$29,040	1,650
Indoor, Climate Controlled	0.33	10	10	100	$115.67	33.00	3,817.00	$45,804	3,300
Indoor, Climate Controlled	0.12	10	15	150	$158.67	12.00	1,904.00	$22,848	1,800
Indoor, Climate Controlled	0.05	10	20	200	$204.00	5.00	1,020.00	$12,240	1,000
Total								$116,460	8,175
Average Rent PSF	**$ 14.27**								

Note: This market rent analysis is only a snapshot in time and is not based on historical, pro forma, or trend analysis.

Market Review

The City of Fort Pierce is located within the Port St. Lucie Metropolitan Statical Area (MSA) and was named as one of the top 20 metropolitan areas with the largest net increases in population due to migration. As of 2019, Fort Pierce, Florida's estimated population is 46,103 which is an increase of 9.9% over the past 10 years along with a median household income is $35,198.

DEMOGRAPHIC PROFILE - FORT PIERCE, FL				
Population			**Education**	
Population estimates, July 1, 2019, (V2019)	46,103		High school graduate or higher, percent of persons age 25 years+, 2015-2019	78.70%
Population estimates base, April 1, 2010, (V2019)	41,942		Bachelor's degree or higher, percent of persons age 25 years+, 2015-2019	16.10%
Population, percent change - April 1, 2010 (estimates base) to July 1, 2019, (V2019)	9.90%		Health	
Population, Census, April 1, 2010	41,590		With a disability, under age 65 years, percent, 2015-2019	10.20%
			Persons without health insurance, under age 65 years, percent	23.70%
Age and Sex				
Persons under 5 years, percent	6.80%		**Economy**	
Persons under 18 years, percent	23.80%		In civilian labor force, total, percent of population age 16 years+, 2015-2019	56.60%
Persons 65 years and over, percent	17.90%		In civilian labor force, female, percent of population age 16 years+, 2015-2019	54.30%
Female persons, percent	51.30%		Total accommodation and food services sales, 2012 ($1,000)(c)	105,724
			Total health care and social assistance receipts/revenue, 2012 ($1,000)(c)	536,750
Race and Hispanic Origin			Total manufacturers shipments, 2012 ($1,000)(c)	108,772
White alone, percent	53.10%		Total merchant wholesaler sales, 2012 ($1,000)(c)	224,990
Black or African American alone, percent(a)	41.40%		Total retail sales, 2012 ($1,000)(c)	919,193
American Indian and Alaska Native alone, percent(a)	0.40%		Total retail sales per capita, 2012(c)	$21,555
Asian alone, percent(a)	0.90%			
Native Hawaiian and Other Pacific Islander alone, percent(a)	0.30%		**Transportation**	
Two or More Races, percent	1.70%		Mean travel time to work (minutes), workers age 16 years+, 2015-2019	25.2
Hispanic or Latino, percent(b)	22.80%			
White alone, not Hispanic or Latino, percent	33.50%		**Income & Poverty**	
			Median household income (in 2019 dollars), 2015-2019	$35,198
Population Characteristics			Per capita income in past 12 months (in 2019 dollars), 2015-2019	$19,388
Veterans, 2015-2019	2,210		Persons in poverty, percent	29.40%
Foreign born persons, percent, 2015-2019	18.10%			
			Businesses	
Housing			Total employer establishments, 2018	X
Housing units, July 1, 2019, (V2019)	X		Total employment, 2018	X
Owner-occupied housing unit rate, 2015-2019	46.10%		Total annual payroll, 2018 ($1,000)	X
Median value of owner-occupied housing units, 2015-2019	$113,600		Total employment, percent change, 2017-2018	X
Median selected monthly owner costs -with a mortgage, 2015-2019	$1,178		Total nonemployer establishments, 2018	X
Median selected monthly owner costs -without a mortgage, 2015-2019	$443		All firms, 2012	3,696
Median gross rent, 2015-2019	$943		Men-owned firms, 2012	1,731
Building permits, 2019	X		Women-owned firms, 2012	1,546
			Minority-owned firms, 2012	1,902
Families & Living Arrangements			Nonminority-owned firms, 2012	1,564
Households, 2015-2019	16,718		Veteran-owned firms, 2012	369
Persons per household, 2015-2019	2.67		Nonveteran-owned firms, 2012	3,081
Living in same house 1 year ago, percent of persons age 1 year+, 2015-2019	86.90%			
Language other than English spoken at home, percent of persons age 5 years+, 2015-2019	29.40%		**Geography**	
Computer and Internet Use			Population per square mile, 2010	2,021.90
Households with a computer, percent, 2015-2019	85.20%		Land area in square miles, 2010	20.57
Households with a broadband Internet subscription, percent, 2015-2019	72.80%		FIPS Code	1224300

The City of Fort Pierce is expected to continue growing thanks to its modest home prices and the rising costs within the City of Port St. Lucie and neighboring Martin and Palm Beach Counties. The future population growth of Fort Pierce will be fueled by younger families as development continues along the City's western boundaries.

Executive Summary

On or about January 2021, we conducted a Self-Storage Market Study for a specific location in the City of Fort Pierce, FL market. The study included an offsite examination of the subject property, a review of the self-storage competitors in the market and the demographic profile of the subject market.

It is our opinion that the market is extremely favorable for the development of additional self-storage space.

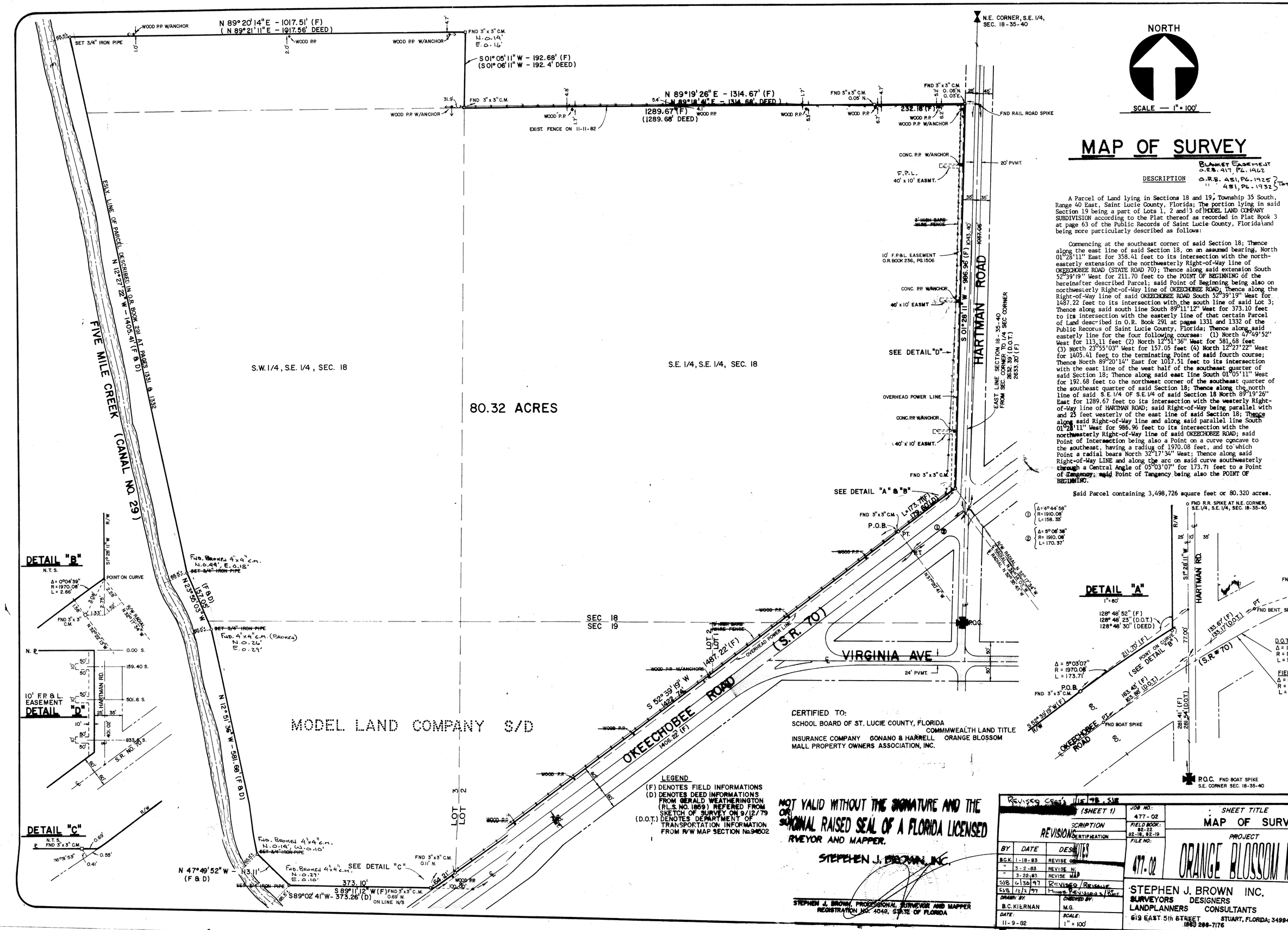
Our opinion is based on the following:

- The subject site does enjoy an advantage over most of the market competitors as the site is along the Okeechobee Road corridor, which is one of the most heavily traveled roadways within the City of Fort Pierce.

- The population density in proximity to the subject site is at moderately high numbers and there is nominal population and household growth projected over the next five years to support an additional self-storage facility within the subject market.

- The square foot demand calculations would appear to indicate that the subject market is under-supplied and that the anecdotal evidence of higher rental rates among the competitors would support this conclusion.

- The moderately high market rental rates for storage space would support new self-storage development of an institutional nature assuming the land costs and development costs were not overly excessive.



MAP OF SURVEY

BLANKET EASEMENT O.R.B. 417, PG. 1462

DESCRIPTION O.R.B. 451, PG. 1925 } TOTAL SITE
" 451, PG. 1932 }

A Parcel of Land lying in Sections 18 and 19, Township 35 South, Range 40 East, Saint Lucie County, Florida; The portion lying in said Section 19 being a part of Lots 1, 2 and 3 of MODEL LAND COMPANY SUBDIVISION according to the Plat thereof as recorded in Plat Book 3 at page 63 of the Public Records of Saint Lucie County, Florida and being more particularly described as follows:

Commencing at the southeast corner of said Section 18; Thence along the east line of said Section 18, on an assumed bearing, North 01°28'11" East for 358.41 feet to its intersection with the northeasterly extension of the northwesterly Right-of-Way line of OKEECHOBEE ROAD (STATE ROAD 70); Thence along said extension South 52°39'19" West for 211.70 feet to the POINT OF BEGINNING of the hereinafter described Parcel; said Point of Beginning being also on northwesterly Right-of-Way line of OKEECHOBEE ROAD; Thence along the Right-of-Way line of said OKEECHOBEE ROAD South 52°39'19" West for 1487.22 feet to its intersection with the south line of said Lot 3; Thence along said south line South 89°11'12" West for 373.10 feet to its intersection with the easterly line of that certain Parcel of Land described in O.R. Book 291 at pages 1331 and 1332 of the Public Recorus of Saint Lucie County, Florida; Thence along said easterly line for the four following courses: (1) North 47°49'52" West for 113.11 feet (2) North 12°51'36" West for 581.68 feet (3) North 23°55'03" West for 157.05 feet (4) North 12°27'22" West for 1405.41 feet to the terminating Point of said fourth course; Thence North 89°20'14" East for 1017.51 feet to its intersection with the east line of the west half of the southeast quarter of said Section 18; Thence along said east line South 01°05'11" West for 192.68 feet to the northwest corner of the southeast quarter of the southeast quarter of said Section 18; Thence along the north line of said S.E. 1/4 OF S.E. 1/4 of said Section 18 North 89°19'26" East for 1289.67 feet to its intersection with the westerly Right-of-Way line of HARTMAN ROAD; said Right-of-Way being parallel with and 25 feet westerly of the east line of said Section 18; Thence along said Right-of-Way line and along said parallel line South 01°28'11" West for 986.96 feet to its intersection with the northwesterly Right-of-Way line of said OKEECHOBEE ROAD; said Point of Intersection being also a Point on a curve concave to the southeast, having a radius of 1970.08 feet, and to which Point a radial bears North 32°17'34" West; Thence along said Right-of-Way LINE and along the arc on said curve southwesterly through a Central Angle of 05°03'07" for 173.71 feet to a Point of Tangency; said Point of Tangency being also the POINT OF BEGINNING.

Said Parcel containing 3,498,726 square feet or 80.320 acres.

REVISIONS	DESCRIPTION	BY	DATE
(SHEET 1)	REVISE GEN. NOTES	B.G.K.	1-18-83
	REVISE TITLE	"	3-2-83
	REVISE MAP	"	3-22-83
	RE-VISED / REISSUE	SJB	6/30/97
	Minor Revisions & Reissue	SJB	12/1/97

DRAWN BY: B.C. KIERNAN	CHECKED BY: M.G.
DATE: 11-9-82	SCALE: 1" = 100'

JOB NO.:	477-02
FIELD BOOK:	82-22
	82-16, 82-19
FILE NO:	477.02

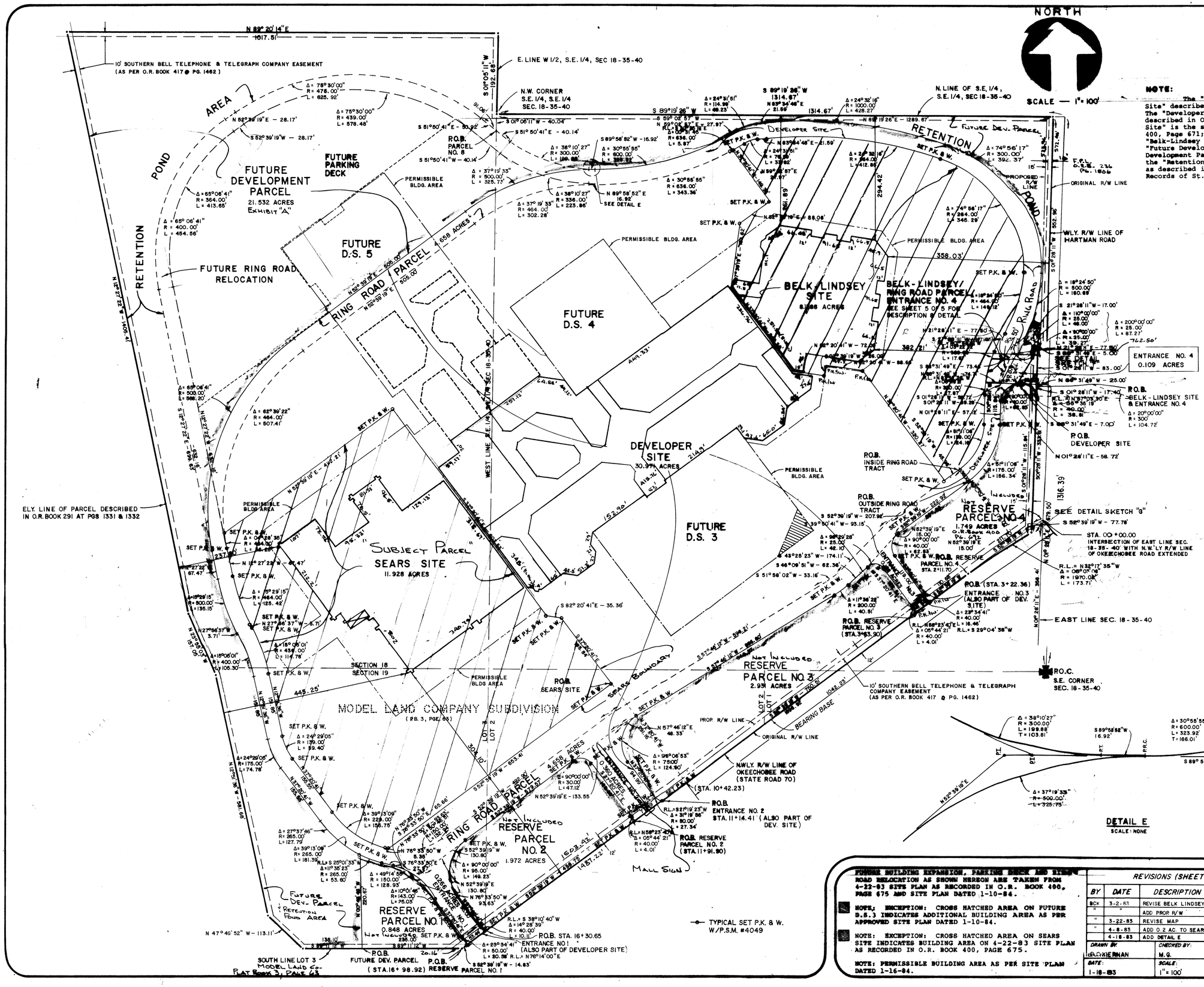
SHEET TITLE: MAP OF SURVEY

PROJECT: ORANGE BLOSSOM MALL

STEPHEN J. BROWN INC.
SURVEYORS DESIGNERS
LANDPLANNERS CONSULTANTS
619 EAST 5th STREET STUART, FLORIDA; 34994
(561) 288-7176

SHEET NO: 1 OF: 5

REISSUED 12/10/99 SJB, UPDATE 8/10/00 SJB, REISSUE 7/13/01



NOTE:

The "Complete Site" is the same as the "Complete Site" described in O.R. Book 400, Pages 664 through 667; The "Developer Site" is the same as the "Developer Site" described in O.R. Book 400, Pages 668 through 670; the "Sears Site" is the same as the "Sears Site" described in O.R. Book 400, Page 671; the "Belk-Lindsey Site" is the same as the "Belk-Lindsey Site" described in O.R. Book 400, Page 672; the "Future Development Parcel" is the same as the "Future Development Parcel" described in O.R. Book 400, Page 673; the "Retention Pond Area" is the same as the "Retention Ponds" as described in O.R. Book 400, Page 674, all in the Public Records of St. Lucie County, Florida.

THE FOLLOWING DENOTES THOSE PARCELS WHICH ARE COINCIDENT WITH EACH OTHER

Parcel	Coincident With
Belk-Lindsey Site	Developer Site Reserve Parcel No. 4 Retention Pond Area Hartman Road R/W Ring Road Parcel
Sears Site	Developer Site Ring Road Parcel
Developer Site	Belk Lindsey Site Sears Site Reserve Parcels 1 - 4 Future Development Parcel Retention Pond Area Okeechobee Road R/W Ring Road Parcel
Reserve Parcel No. 1	Developer Site Retention Pond Area Okeechobee Road R/W Ring Road Parcel
Reserve Parcel No. 2	Developer Site Okeechobee Road R/W Ring Road Parcel
Reserve Parcel No. 3	Developer Site Okeechobee Road R/W Ring Road Parcel
Reserve Parcel No. 4	Developer Site Belk Lindsey Site Okeechobee Road R/W Hartman Road R/W Ring Road Parcel
Future Development Parcel	Developer Site Canal No. 29 Ring Road Parcel
Retention Pond Area (Part of Future Development Parcel)	Belk Lindsey Site Developer Site Reserve Parcel No. 1 Hartman Road R/W Canal No. 29
Ring Road Description (Part of Developer Site)	Belk Lindsey Site Sears Site Future Development Parcel Reserve Parcels 1 - 4 Retention Pond Area Belk Lindsey/Ring Road Parcel/ Entrance No. 4

CURVE DATA LEGEND

R.L. = RADIAL LINE BEARING
Δ = CENTRAL ANGLE
R = RADIUS
L = LENGTH OF ARC

Reissue 7/13/01
Undate 8/10/00 SJB
Reissued 12/10/99 SJB
Revised 6/30/97 SJB
Revised 12-12-84
Revised 11-13-84

FUTURE BUILDING EXPANSION, PARKING DECK AND RING ROAD RELOCATION AS SHOWN HEREON ARE TAKEN FROM 4-22-83 SITE PLAN AS RECORDED IN O.R. BOOK 400, PAGE 675 AND SITE PLAN DATED 1-10-84.

NOTE; EXCEPTION: CROSS HATCHED AREA ON FUTURE D.S.3 INDICATES ADDITIONAL BUILDING AREA AS PER APPROVED SITE PLAN DATED 1-10-84.

NOTE: EXCEPTION: CROSS HATCHED AREA ON SEARS SITE INDICATES BUILDING AREA ON 4-22-83 SITE PLAN AS RECORDED IN O.R. BOOK 400, PAGE 675.

NOTE: PERMISSIBLE BUILDING AREA AS PER SITE PLAN DATED 1-16-84.

REVISIONS (SHEET 2)		
BY	DATE	DESCRIPTION
BCK	3-2-83	REVISE BELK LINDSEY SITE
"	"	ADD PROP. R/W
"	3-22-83	REVISE MAP
"	4-8-83	ADD 0.2 AC. TO SEARS SITE
	4-18-83	ADD DETAIL E

DRAWN BY: E.C. KIERNAN
CHECKED BY: M.G.
DATE: 1-18-83
SCALE: 1" = 100'

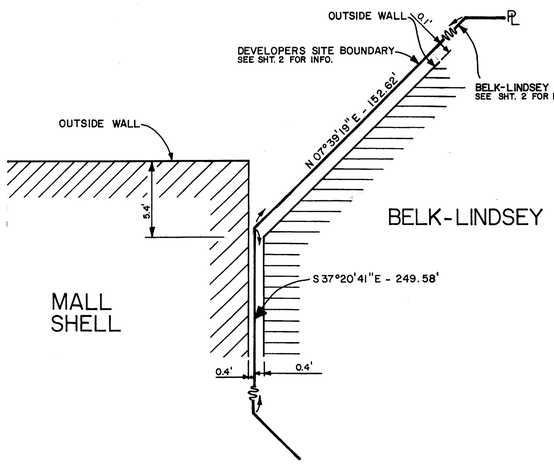
JOB NO.: 477-02
FIELD BOOK:
FILE NO.: 477-02

SHEET TITLE: SKETCH TO ACCOMPANY LEGAL DESC.

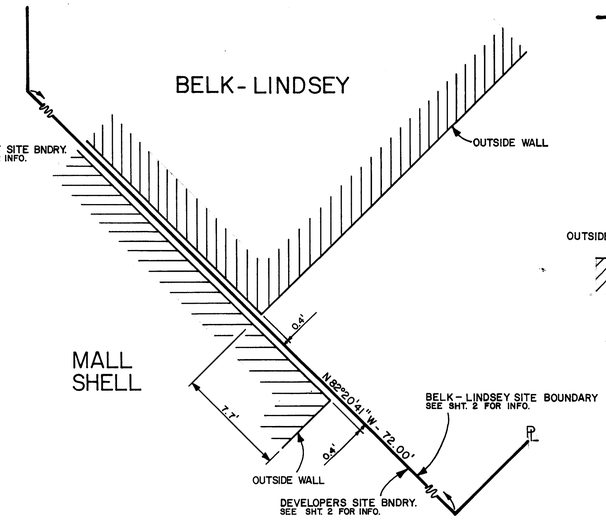
PROJECT: ORANGE BLOSSOM MALL

STEPHEN J. BROWN INC.
SURVEYORS DESIGNERS
LANDPLANNERS CONSULTANTS
619 EAST 5th STREET STUART, FLORIDA; 34994
(561) 288-7176

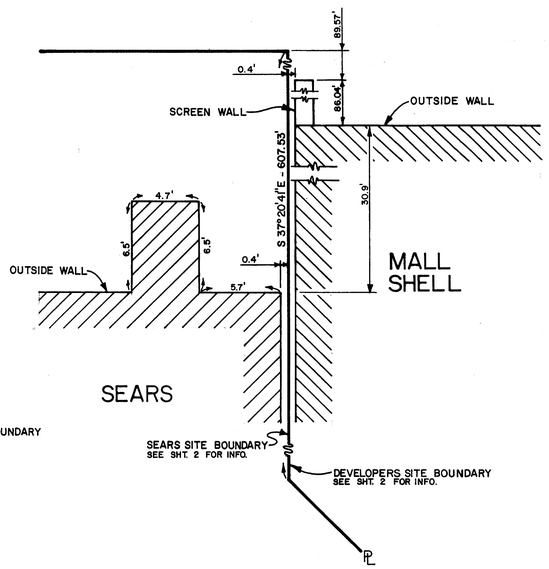
SHEET NO.: 2 OF: 5



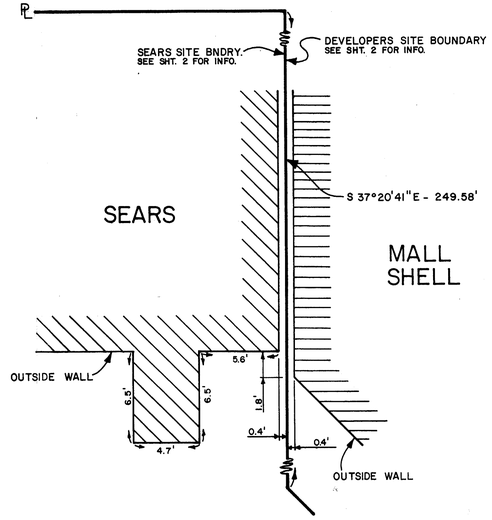
DETAIL 1



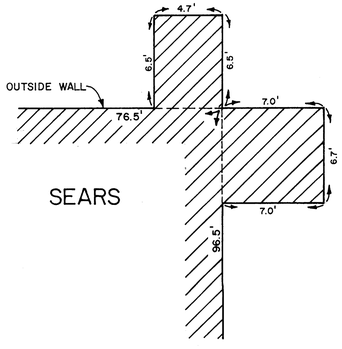
DETAIL 2



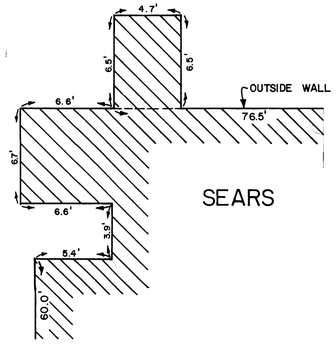
DETAIL 3



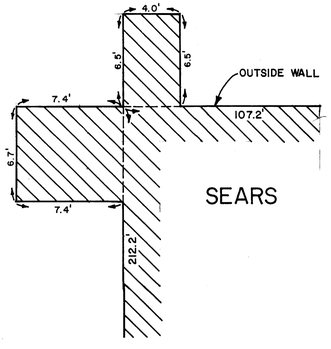
DETAIL 4



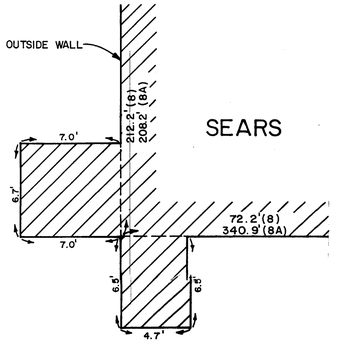
DETAIL 5



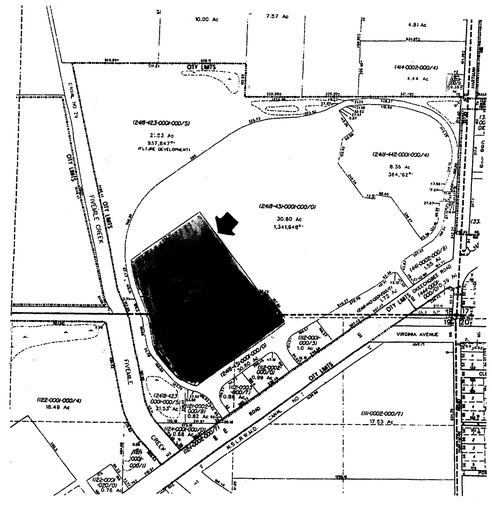
DETAIL 6



DETAIL 7



DETAIL 8 & 8A



LOCATION MAP

PARKING: 2799 + 43 HANDICAP = 2,842 TOTAL
BUILDING AREA: BELK LINDSEY = 83,119 S/F ±
SEARS = 128,938 S/F ±
MALL = 275,707 S/F ±

NOTE: PARKING, BUILDING DIMENSIONS & AREAS TAKEN FROM AS BUILT DRAWINGS "SITE WORK, ORANGE BLOSSOM MALL" H.J.N.R.+W.; WILLIAM HATTRUP, P.E. SHEETS, SP-1 - SP-4, DATED 3/1/84

REISSUED 7/13/01
LAST REVISED 1/20/98 REISSUED 12/10/94 SJB
REVISED 1/15/98 RE-ISSUED 11-13-84
RE-ISSUE 6/30/97

NOTES:

1. Survey of description as furnished by Client.
2. Lands shown hereon were not abstracted for easements and/or rights-of-way of record.
3. All bearings are referenced to the south line of subject property Platted as S 52° 39' 19" W all others relative there to.
4. Elevations shown hereon are relative to National Geodetic Vertical Datum of 1929, and are based on bench mark.
5. There are no above ground encroachments, unless otherwise shown.
6. The National Flood Insurance Program designation as indicated on the F.E.M.A. Map Panel No. 12111C0186 F, dated Aug 19th 1991 locates the parcel in Zone AE,X, base flood elevation 17NA feet; subject to any scaling and interpolation factors associated with mapping of this accuracy.
7. EXISTING ELEVATION 16.50 FOR THE SEARS BUILDING.

REVISIONS		
BY	DATE	DESCRIPTION

DRAWN BY: M. MCCUE	CHECKED BY: M.G.
DATE: 6-22-84	SCALE: 1" = 100'

JOB NO.: 477-02
FIELD BOOK:
FILE NO: 477-02

SHEET TITLE: DETAIL SHEET
PROJECT: ORANGE BLOSSOM MALL

STEPHEN J. BROWN INC.
SURVEYORS DESIGNERS
LANDPLANNERS CONSULTANTS
619 EAST 5th STREET, STUART, FLORIDA; 34994
(561) 288-7176

SHEET NO.: 2B OF: 5

DESCRIPTION: BELK-LINDSEY SITE "NOT INCLUDED"

A Parcel of Land lying in Section 18, Township 35 South, Range 40 East, Saint Lucie County, Florida and being more particularly described as follows:

Commencing at the southeast corner of said Section 18; thence along the east line of said Section 18, on an assumed bearing, North 01°28'11" East for 679.50 feet; thence North 88°31'49" West for 25.00 feet to the Point of Intersection with the westerly Right-of-Way Line of HARTMAN ROAD; said Point being also the POINT OF BEGINNING; thence along the westerly line of said HARTMAN ROAD South 01°28'11" West for 17.40 feet to the Point of Intersection with a curve concave to the Southwest, having a Radius of 40.00 feet and to which Point a Radial Line bears North 57°03'30" East; thence along the Arc of said Curve, through a Central Angle of 55°35'19" Northwesterly for 38.81 feet; thence North 88°31'49" West for 81.71 feet to the Point of Intersection with a curve concave to the Southeast, having a Radius of 300.00 feet and to which Point a radial line bears North 83°12'28" West; thence along the Arc of said Curve, through a Central Angle of 05°19'21", Southerly for 27.87 feet to a Point of Tangency; thence South 01°28'11" West for 69.29 feet to a Point of Curvature of a curve concave to the Southeast and having a radius of 139.00 feet; thence along the Arc of said curve, through a Central Angle of 51°11'08" Southerly and Southwesterly for 124.18 feet to a Point of Tangency; thence South 52°39'19" West for 45.96 feet; thence North 37°20'41" West for 320.27 feet; thence North 82°20'41" West for 85.68 feet; thence South 07°39'19" West for 26.00 feet; thence North 82°20'41" West for 72.00 feet; thence North 37°20'41" West for 245.58 feet; thence North 07°39'19" East for 152.62 feet; thence North 52°39'19" East for 88.08 feet; thence North 37°20'41" West for 149.36 feet to the Point of Intersection with a Curve concave to the South, having a Radius of 636.00 feet and to which Point a Radial Line bears South 30°25'18" East; thence along the Arc of said Curve, through a Central Angle of 0°31'45", Northeasterly for 5.87 feet to a Point of Tangency; thence North 59°02'57" East for 27.97 feet to a Point of Curvature of a Curve concave to the South and having a Radius of 78.99 feet; thence along the Arc of said Curve, through a Central Angle of 24°31'51", Easterly for 33.82 feet to a Point of Tangency; thence North 83°34'48" East for 21.59 feet to a Point of Curvature of a Curve concave to the South and having a Radius of 964.00 feet; thence along the Arc of said Curve, through a Central Angle of 24°32' 16", Easterly for 412.85 feet to a Point of Compound Curve of a Curve concave to the Southwest and having a Radius of 264.00 feet; thence along the Arc of said Curve, through a Central Angle of 74°56'17", Southeasterly for 345.29 feet to a Point of Compound Curve of a Curve concave to the West and having a radius of 464.00 feet; thence along the Arc of said Curve, through a Central Angle of 18°24'50", Southerly for 149.12 feet to a Point of Tangency; thence South 21°28'11" West for 47.95 feet to a Point of Curvature of a Curve concave to the East and having a Radius of 300.00 feet; thence along the Arc of said Curve, through a Central Angle of 03°22'32", Southwesterly for 17.67 feet; thence South 88°31'49" East for 73.46 feet to a Point of Curvature of a Curve concave to the Northwest and having a Radius of 25.00 feet; thence along the Arc of said Curve, through a Central Angle of 90°00'00" Easterly and Northerly for 39.27 feet; thence South 88°31'49" East for 5.00 feet to its intersection with the westerly Right-of-Way Line of said HARTMAN ROAD; thence along said R/W Line South 01°28'11" West for 83.00 feet to the POINT OF BEGINNING.

Containing 8.388 Acres.

DESCRIPTION: SEARS SITE "SUBJECT PARCEL"

A Parcel of Land lying in Sections 18 and 19, Township 35 South, Range 40 East, Saint Lucie County, Florida; The portion lying in said Section 19 being a part of Lots 2 and 3 of MODEL LAND COMPANY SUBDIVISION according to the Plat thereof as recorded in Plat Book 3 at page 63 of the Public Records of Saint Lucie County, Florida and being more particularly described as follows:

Commencing at the southeast corner of said Section 18; thence along the east line of said Section 18, on an assumed bearing North 01°28'11" East for 358.41 feet to its intersection with the northeasterly extension line of the northwesterly Right-of-Way Line of OKEECHOBEE ROAD (STATE ROAD 70); thence along said extension and along said R/W Line South 52°39'19" West for 1042.23 feet; thence North 37°20'41" West for 291.16 feet to the POINT OF BEGINNING: thence South 52°39'19" West for 653.41 feet; thence North 76°33'50" West for 5.35 feet to a Point of Curvature of a curve concave to the Northeast and having a radius of 229.00 feet; thence along the arc of said curve, through a Central Angle of 39°13'09" northerly for 156.75 feet to a Point of Tangency; thence North 37°20'41" West for 155.55 feet to a Point of Curvature of a curve concave to the East and having a radius of 139.00 feet; thence along the arc of said curve, through a Central Angle of 24°29'05" northerly for 59.40 feet to a Point of Tangency; thence North 12°51'36" West for 151.85 feet to a Point of Curvature of a curve concave to the West and having a radius of 436.00 feet; thence along the arc of said curve, through a Central Angle of 15°05'01" northerly for 114.78 feet to a Point of Tangency; thence North 27°56'37" West for 3.71 feet to a Point of Curvature of a curve concave to the East and having a radius of 464.00 feet; thence along the arc of said curve, through a Central Angle of 15°29'15" northerly for 125.42 feet to a Point of Tangency; thence North 12°27'22" West for 67.47 feet to a Point of Curvature of a curve concave to the East and having a radius of 464.00 feet; thence along the arc of said curve, through a Central Angle of 04°28'35" for 36.25 feet; thence North 52°39'19" East for 492.21 feet; thence South 37°20'41" East for 607.53 feet; thence South 82°20'41" East for 35.36 feet; thence South 37°20'41" East for 193.84 feet to the POINT OF BEGINNING.

Containing 11.928 Acres.

DESCRIPTION: DEVELOPER SITE

A Parcel of Land lying in Sections 18 and 19, Township 35 South, Range 40 East, Saint Lucie County, Florida; The portion lying in said Section 19 being a part of Lots 1, 2 and 3 of MODEL LAND COMPANY SUBDIVISION according to the Plat thereof as recorded in Plat Book 3 at page 63 of the Public Records of Saint Lucie County, Florida and being more particularly described as follows:

Commencing at the southeast corner of said Section 18; thence along the east line of said Section 18, on an assumed bearing, North 01°28'11" East for 679.50 feet; thence North 88°31'49" West for 65.00 feet to the POINT OF BEGINNING; Said POINT OF BEGINNING being also the Point of Curvature of a Curve concave to the Southeast and having a Radius of 40.00 feet; thence along the Arc of said Curve, through a Central Angle of 90°00'00" Westerly, Southwesterly and Southerly for 62.83 feet to a Point of Tangency; thence South 01°28'11" West for 57.12 feet to a Point of Curvature of a Curve concave to the East and having a Radius of 175.00 feet; thence along the Arc of said Curve, through a Central Angle of 51°11'08", Southwesterly for 156.34 feet to a Point of Tangency; thence South 52°39'19" West for 207.92 feet to a Point of Curvature of a Curve concave to the East and having a Radius of 40.00 feet; thence along the Arc of said Curve, through a Central Angle of 90°00'00" Southwesterly, Southerly and Southeasterly for 62.83 feet to a Point of Tangency, thence South 37°20'41" East for 119.00 feet to a Point of Curvature of a Curve concave to the North and having a Radius of 40.00 feet; thence along the Arc of said Curve, through a Central Angle of 23°34'41" Southeasterly for 16.46 feet to its intersection with the northwesterly Right-of-Way Line of OKEECHOBEE ROAD (STATE ROAD 70); thence along said R/W Line South 52°39'19" West for 41.54 feet to the Point of Intersection with a curve concave to the Southwest, having a Radius of 40.00 feet and to which Point a Radial Line bears North 58°23'40" East; thence along the Arc of said Curve, through a Central Angle of 05°44'21", Northwesterly for 4.01 feet to a Point of Tangency; thence North 37°20'41" West for 125.51 feet to a Point of Curvature of a Curve concave to the South and having a Radius of 25.00 feet; thence along the Arc of said Curve, through a Central Angle of 96°29'28", Northwesterly, Westerly and Southwesterly for 42.10 feet to a Point of Tangency; thence South 48°09'51" West for 62.36 feet to a Point of Curvature of a Curve concave to the Southeast and having a Radius of 200.00 feet; thence along the Arc of said Curve, through a Central Angle of 11°36'22" Southwesterly for 40.51 feet to a Point of Tangency; thence South 57°46'12" West for 548.27 feet to the Point of Curvature of a Curve concave to the East and having a Radius of 75.00 feet; thence along the Arc of said Curve, through a Central Angle of 95°06'53" Southwesterly, Southerly and Southeasterly for 124.50 feet to a Point of Tangency; thence South 37°20'41" East for 94.99 feet to a Point of Curvature of a Curve concave to the Southwest and having a Radius of 50.00 feet; thence along the Arc of said Curve, through a Central Angle of 31°19'56" Southeasterly for 27.34 feet to its intersection with the northwesterly Right-of-Way Line of said OKEECHOBEE ROAD; thence along said R/W Line South 52°39'19" West for 77.49 feet to the Point of Intersection with a Curve concave to the Southwest, having a Radius of 40.00 feet and to which Point a Radial Line bears North 58°23'40" East; thence along the Arc of said Curve, through a Central Angle of 05°44'21", Northwesterly for 4.01 feet to a Point of Tangency; thence North 37°20'41" West for 166.00 feet to a Point of Curvature of a Curve concave to the South and having a Radius of 30.00 feet; thence along the Arc of said Curve, through a Central Angle of 90°00'00" Northwesterly, Westerly and Southwesterly for 47.12 feet to a Point of Tangency; thence South 52°39'19" West for 315.22 feet to a Point of Curvature of a Curve concave to the East and having a Radius of 95.00 feet; thence along the Arc of said Curve, through a Central Angle of 90°00'00" Southwesterly, Southerly and Southeasterly for 149.23 feet to a Point of Tangency; thence South 37°20'41" East for 95.00 feet to a Point of Curvature of a Curve concave to the Southeast and having a Radius of 40.00 feet; thence along the Arc of said Curve, through a Central Angle of 14°28'39", Southeasterly for 10.11 feet to its intersection with the Right-of-Way Line of said OKEECHOBEE ROAD; thence along said R/W Line South 52°39'19" West for 53.44 feet to the Point of Intersection with a Curve concave to the West, having a Radius of 50.00 feet and to which Point a Radial Line bears North 76°14'00" East; thence along the Arc of said Curve, through a Central Angle of 23°34'41", Northwesterly for 20.58 feet to a Point of Tangency; thence North 37°20'41" West for 85.00 feet to a Point of Curvature of a Curve concave to the Northeast and having a Radius of 143.00 feet; thence along the Arc of said Curve, through a Central Angle of 10°01'46" Northwesterly for 25.03 feet to a Point of Reverse Curve of a Curve concave to the Northeast and having a Radius of 150.00 feet; thence along the Arc of said Curve, through a Central Angle of 49°14'55", Northwesterly and Westerly for 128.93 feet to a Point of Tangency; thence North 76°33'50" West for 27.97 feet to a Point of Curvature of a Curve concave to the Northeast and having a Radius of 265.00 feet; thence along the Arc of said Curve through a Central Angle of 39°13'09", Northwesterly for 181.39 feet to a Point of Tangency; thence North 37°20'41" West for 155.55 feet to a Point of Curvature of a Curve concave to the Northeast and having a Radius of 175.00 feet; thence along the Arc of said Curve, through a Central Angle of 24°29'05", Northwesterly for 74.78 feet to a Point of Tangency; thence North 12°51'36" West for 151.85 feet to a Point of Curvature of a Curve concave to the Southwest and having a Radius of 400.00 feet; thence along the Arc of said Curve, through a Central Angle of 15°05'01" Northwesterly for 105.30 feet to a Point of Tangency; thence North 27°56'37" West for 3.71 feet to a Point of Curvature of a Curve concave to the Northeast and having a Radius of 500.00 feet; thence along the Arc of said Curve, through a Central Angle of 15°29'15" Northerly for 135.15 feet to a Point of Tangency; thence North 12°27'22" West for 67.47 feet to a Point of Curvature of a Curve concave to the East and having a Radius of 565.00 feet; thence along the Arc of said Curve, through a Central Angle of 65°06'41", Northerly and Northeasterly for 568.20 feet to a Point of Tangency; thence North 52°39'19" East for 505.00 feet to a Point of Curvature of a Curve concave to the South and having a Radius of 500.00 feet; thence along the Arc of said Curve, through a Central Angle of 37°14'33" Easterly for 325.73 feet to a Point of Reverse Curve of a Curve concave to the North and having a Radius of 600.00 feet; thence along the Arc of said Curve, through a Central Angle of 30°55'55" Easterly for 323.92 feet to a Point of Tangency; thence North 59°02'57" East for 27.97 feet to a Point of Curvature of a Curve concave to the Southeast and having a Radius of 114.99 feet; thence along the Arc of said Curve, through a Central Angle of 24°31'51" Easterly for 49.23 feet to a Point of Tangency; thence North 83°34'48" East for 21.59 feet to a Point of Curvature of a Curve concave to the South and having a Radius of 1000.00 feet; thence along the Arc of said Curve, through a Central Angle of 24°32'16" Easterly for 428.27 feet to a Point of Compound Curve of a Curve concave to the Southwest and having a Radius of 300.00 feet; thence along the Arc of said Curve, through a Central Angle of 74°56'17", Southeasterly for 392.37 feet to a Point of Compound Curve of a Curve concave to the West and having a Radius of 500.00 feet; thence along the Arc of said Curve, through a Central Angle of 18°24'50" Southerly for 160.69 feet to a Point of Tangency; thence South 21°28'11" West for 17.00 feet to a Point of Curvature of a Curve concave to the Northeast and having a Radius of 25.00 feet; thence along the Arc of said Curve, through a Central Angle of 110°00'00", Southwesterly, Southerly and Southeasterly for 48.00 feet to a Point of Tangency; thence North 88°31'49" West for 73.46 feet to the Point of Intersection with a Curve concave to the East, having a Radius of 300.00 feet and to which Point a Radial Line bears North 1°54'21" West; thence along the Arc of said Curve, through a Central Angle of 03°22'32" Northerly for 17.67 feet to a Point of Tangency; thence North 21°28'11" East for 47.95 feet to a Point of Curvature of a Curve concave to the West and having a Radius of 464.00 feet; thence along the Arc of said Curve, through a Central Angle of 18°24'50", Northerly for 149.12 feet to a Point of Compound Curve of a Curve concave to the Southwest and having a Radius of 264.00 feet; thence along the Arc of said Curve, through a Central Angle of 74°56'17" Northerly, Northwesterly and Westerly for 345.29 feet to a Point of Compound Curve of a Curve concave to the South and having a Radius of 964.00 feet; thence along the Arc of said Curve, through a Central Angle of 24°32'16" Westerly for 412.85 feet to a Point of Tangency; thence South 83°34'48" West for 21.59 feet to a Point of Curvature of a Curve concave to the Southeast and having a Radius of 78.99 feet; thence along the Arc of said Curve, through a Central Angle 24°31'51" Southwesterly for 33.82 feet to a Point of Tangency; thence South 59°02'57" West for 27.97 feet to a Point of Curvature of a Curve concave to the Northwest and having a Radius of 636.00 feet; thence along the Arc of said Curve, through a Central Angle of 0°31'45", Southwesterly for 5.87 feet; thence South 37°20'41" East for 149.36 feet; thence South 52°39'19" West for 88.08 feet; thence South 07°39'19" West for 152.62 feet; thence South 37°20'41" East for 249.58 feet; thence South 82°20'41" East for 72.00 feet; thence North 07°39'19" East for 26.00 feet; thence South 82°20'41" East for 88.68 feet; thence South 37°20'41" East for 320.27 feet; thence North 52°39'19" East for 45.96 feet to a Point of Curvature of a Curve concave to the Southeast and having a Radius of 139.00 feet; thence along the Arc of said Curve, through a Central Angle of 51°11'08", Northeasterly and Northerly for 124.18 feet to a Point of Tangency; thence North 01°28'11" East for 69.29 feet to a Point of Curvature of a Curve concave to the East and having a Radius of 300.00 feet; thence along the Arc of said Curve, through a Central Angle of 03°22'32", Northerly for 17.67 feet to a Point of Tangency; thence North 21°28'11" East for 47.95 feet to a Point of Curvature of a Curve concave to the West and having a Radius of 464.00 feet; thence along the Arc of said Curve, through a Central Angle of 18°24'50", Northerly for 149.12 feet to a Point of Compound Curve of a Curve concave to the Southwest and having a Radius of 264.00 feet; thence along the Arc of said Curve, through a Central Angle of 74°56'17" Northerly, Northwesterly and Westerly for 345.29 feet to a Point of Compound Curve of a Curve concave to the South and having a Radius of 964.00 feet; thence along the Arc of said Curve, through a Central Angle of 24°32'16" Westerly for 412.85 feet to a Point of Tangency; thence South 83°34'48" West for 21.59 feet to a Point of Curvature of a Curve concave to the Southeast and having a Radius of 78.99 feet; thence along the Arc of said Curve, through a Central Angle 24°31'51" Southwesterly for 33.82 feet to a Point of Tangency; thence South 59°02'57" West for 27.97 feet to a Point of Curvature of a Curve concave to the Northwest and having a Radius of 636.00 feet; thence along the Arc of said Curve, through a Central Angle of 0°31'45", Southwesterly for 5.87 feet; thence South 37°20'41" East for 149.36 feet; thence South 52°39'19" West for 88.08 feet; thence South 07°39'19" West for 152.62 feet; thence South 37°20'41" East for 249.58 feet; thence South 82°20'41" East for 72.00 feet; thence North 07°39'19" East for 26.00 feet; thence South 82°20'41" East for 88.68 feet; thence South 37°20'41" East for 320.27 feet; thence North 52°39'19" East for 45.96 feet to a Point of Curvature of a Curve concave to the Southeast and having a Radius of 139.00 feet; thence along the Arc of said Curve, through a Central Angle of 51°11'08", Northeasterly and Northerly for 124.18 feet to a Point of Tangency; thence North 01°28'11" East for 69.29 feet to a Point of Curvature of a Curve concave to the East and having a Radius of 300.00 feet; thence along the Arc of said Curve, through a Central Angle of 05°19'21", Northerly for 27.87 feet; thence South 88°31'49" East for 74.71 feet to the POINT OF BEGINNING.

EXCEPTING THEREFROM PARCEL OF SEARS SITE more particularly described as follows:

Commencing at the southeast corner of said Section 18; thence along the east line of said Section 18, on an assumed bearing, North 01°28'11" East for 358.41 feet to its intersection with the northeasterly extension line of the northwesterly Right-of-Way Line of OKEECHOBEE ROAD (STATE ROAD 70); thence along said extension and along said R/W Line South 52°39'19" West for 1042.23 feet; thence North 37°20'41" West for 291.16 feet to the POINT OF BEGINNING: thence South 52°39'19" West for 653.41 feet; thence North 76°33'50" West for 5.35 feet to a Point of Curvature of a curve concave to the Northeast and having a radius of 229.00 feet; thence along the arc of said curve, through a Central Angle of 39°13'09" northwesterly for 156.75 feet to a Point of Tangency; thence North 37°20'41" West for 155.55 feet to a Point of Curvature of a curve concave to the East and having a radius of 139.00 feet; thence along the arc of said curve, through a Central Angle of 24°29'05" northerly for 59.40 feet to a Point of Tangency; thence North 12°51'36" West for 151.85 feet to a Point of Curvature of a curve concave to the West and having a radius of 436.00 feet; thence along the arc of said curve, through a Central Angle of 15°05'01" northerly for 114.78 feet to a Point of Tangency; thence North 27°56'37" West for 3.71 feet to a Point of Curvature of a curve concave to the East and having a radius of 464.00 feet; thence along the arc of said curve, through a Central Angle of 15°29'15" northerly for 125.42 feet to a Point of Tangency; thence North 12°27'22" West for 67.47 feet to a Point of Curvature of a curve concave to the East and having a radius of 464.00 feet; thence along the arc of said curve, through a Central Angle of 04°28'35" for 36.25 feet; thence North 52°39'19" East for 492.21 feet; thence South 37°20'41" East for 607.53 feet; thence South 82°20'41" East for 35.36 feet; thence South 37°20'41" East for 193.84 feet to the POINT OF BEGINNING.

Said Developer Site containing 30.971 Acres.

DESCRIPTION: RESERVE PARCEL NO. 1 (NOT INCLUDED)

A Parcel of Land lying in Section 19, Township 35 South, Range 40 East, Saint Lucie County, Florida, being a part of Lot 3 of MODEL LAND COMPANY SUBDIVISION according to the Plat thereof as recorded in Plat Book 3 at page 63 of the Public Records of Saint Lucie County, Florida and being more particularly described as follows:

Commencing at the southeast corner of Section 18, Township 35 South, Range 40 East, Saint Lucie County, Florida; thence along the east line of said Section 18, on an assumed bearing, North 01°28'11" East for 358.41 feet to its intersection with the northeasterly extension line of the northwesterly Right-of-Way line of OKEECHOBEE ROAD (STATE ROAD 70); thence along said extension line and along said R/W Line South 52°39'19" West for 1698.92 feet to the Point of Intersection with the south line of said Lot 3; said Point being also the POINT OF BEGINNING: thence along the south line of said Lot 3 South 89°11'12" West for 235.00 feet; thence North 00°48'48" West for 220.67 feet to the Point of Intersection with a curve concave to the Northeast, having a Radius of 265.00 feet and to which Point a Radial Line bears South 25°01'33" West; thence along the Arc of said Curve, through a Central Angle of 11°35'23" Southeasterly for 53.60 feet to a Point of Tangency; thence South 76°33'50" East for 27.97 feet to a Point of Curvature of a curve concave to the southwest and having a Radius of 150.00 feet; thence along the Arc of said Curve, through a Central Angle of 49°14'55" Southeasterly for 128.93 feet to a Point of Reverse curve of a Curve concave to the Northeast and having a Radius of 143.00 feet; thence along the Arc of said curve, through a Central Angle of 10°01'46", Southeasterly for 25.03 feet to a Point of Tangency; thence South 37°20'41" East for 85.00 feet to the Point of Curvature of a Curve concave to the West and having a Radius of 50.00 feet; thence along the Arc of said Curve, through a Central Angle of 23°34'41" Southeasterly for 20.58 feet to its intersection with said northwesterly R/W Line of OKEECHOBEE ROAD; thence along said R/W Line South 52°39'19" West for 14.83 feet to the POINT OF BEGINNING.

Containing 0.848 Acres.

DESCRIPTION: RESERVE PARCEL NO. 2 (NOT INCLUDED)

A Parcel of Land lying in Section 19, Township 35 South, Range 40 East, Saint Lucie County, Florida, being a part of Lots 2 and 3 of MODEL LAND COMPANY SUBDIVISION according to the Plat thereof as recorded in Plat Book 3 at page 63 of the Public Records of Saint Lucie County, Florida and being more particularly described as follows:

Commencing at the southeast corner of Section 18, Township 35 South, Range 40 East, Saint Lucie County, Florida; thence along the east line of said Section 18, on an assumed bearing, North 01°28'11" East for 358.41 feet to its intersection with the northeasterly extension line of the northwesterly Right-of-Way Line of OKEECHOBEE ROAD (STATE ROAD 70); thence along said extension line and along said R/W Line South 52°39'19" West for 1191.90 feet to the POINT OF BEGINNING: thence continuing along said R/W Line South 52°39'19" West for 438.75 feet to the Point of Intersection with a Curve concave to the North, having a Radius of 40.00 feet and to which Point a Radial Line bears South 38°10'40" West; thence along the Arc of said Curve, through a Central Angle of 14°28'39" Northwesterly for 10.11 feet to a Point of Tangency; thence North 37°20'41" West for 95.00 feet to the Point of Curvature of a Curve concave to the east and having a Radius of 95.00 feet; thence along the Arc of said Curve through a Central Angle of 90°00'00" Northwesterly, Northerly and Northeasterly for 149.23 feet to a Point of Tangency; thence North 52°39'19" East for 315.22 feet to a Point of Curvature of a Curve concave to the South and having a Radius of 30.00 feet; thence along the Arc of said Curve through a Central Angle of 90°00'00" Northeasterly, Easterly and Southeasterly for 47.12 feet to a Point of Tangency; thence North 37°20'41" East for 166.00 feet to a Point of Curvature of a Curve concave to the Southeast and having a Radius of 40.00 feet; thence along the Arc of said Curve, through a Central Angle of 51°11'08", Northeasterly and Northerly for 124.18 feet to a Point of Tangency; thence North 01°28'11" East for 69.29 feet to a Point of Curvature of a Curve concave to the East and having a Radius of 300.00 feet; thence along the Arc of said Curve, through a Central Angle of 03°22'32", Northerly for 17.67 feet to a Point of Tangency; thence North 21°28'11" East for 47.95 feet to a Point of Curvature of a Curve concave to the West and having a Radius of 464.00 feet; thence along the Arc of said Curve, through a Central Angle of 18°24'50", Northerly for 149.12 feet to a Point of Compound Curve of a Curve concave to the Southwest and having a Radius of 264.00 feet; thence along the Arc of said Curve, through a Central Angle of 74°56'17" Northerly, Northwesterly and Westerly for 345.29 feet to a Point of Compound Curve of a Curve concave to the South and having a Radius of 964.00 feet; thence along the Arc of said Curve, through a Central Angle of 24°32'16" Westerly for 412.85 feet to a Point of Tangency; thence South 83°34'48" West for 21.59 feet to a Point of Curvature of a Curve concave to the Southeast and having a Radius of 78.99 feet; thence along the Arc of said Curve, through a Central Angle 24°31'51" Southwesterly for 33.82 feet to a Point of Tangency; thence South 59°02'57" West for 27.97 feet to a Point of Curvature of a Curve concave to the Northwest and having a Radius of 636.00 feet; thence along the Arc of said Curve, through a Central Angle of 0°31'45", Southwesterly for 5.87 feet; thence South 37°20'41" East for 149.36 feet; thence South 52°39'19" West for 88.08 feet; thence South 07°39'19" West for 152.62 feet; thence South 37°20'41" East for 249.58 feet; thence South 82°20'41" East for 72.00 feet; thence North 07°39'19" East for 26.00 feet; thence South 82°20'41" East for 88.68 feet; thence South 37°20'41" East for 320.27 feet; thence North 52°39'19" East for 45.96 feet to a Point of Curvature of a Curve concave to the Southeast and having a Radius of 139.00 feet; thence along the Arc of said Curve, through a Central Angle of 51°11'08", Northeasterly and Northerly for 124.18 feet to a Point of Tangency; thence North 01°28'11" East for 69.29 feet to a Point of Curvature of a Curve concave to the East and having a Radius of 300.00 feet; thence along the Arc of said Curve, through a Central Angle of 05°19'21", Northerly for 27.87 feet; thence South 88°31'49" East for 74.71 feet to the POINT OF BEGINNING.

Containing 1.972 Acres.

DESCRIPTION: RESERVE PARCEL NO. 3 (NOT INCLUDED)

A Parcel of Land lying in Sections 18 and 19, Township 35 South, Range 40 East, Saint Lucie County, Florida; The portion lying in said Section 19 being a part of Lots 1 and 2 of MODEL LAND COMPANY SUBDIVISION according to the Plat thereof as recorded in Plat Book 3 at page 63 of the Public Records of Saint Lucie County, Florida and being more particularly described as follows:

Commencing at the southeast corner of said Section 18; thence along the east line of said Section 18, on an assumed bearing, North 01°28'11" East for 358.41 feet to its intersection with the northeasterly extension line of the northwesterly Right-of-Way Line of OKEECHOBEE ROAD (STATE ROAD 70); thence along said extension line and along said R/W Line South 52°39'19" West for 363.90 feet to the POINT OF BEGINNING: thence along said R/W Line continuing South 52°39'19" West for 750.51 feet to the Point of Intersection with a Curve concave to the northeast, having a Radius of 50.00 feet and to which Point a Radial Line bears South 21°19'23" West; thence along the Arc of said Curve, through a Central Angle of 31°19'56" Northwesterly for 27.34 feet to a Point of Tangency; thence North 37°20'41" West for 94.99 feet to a Point of Curvature of a Curve concave to the east and having a Radius of 75.00 feet; thence along the Arc of said Curve, through a Central Angle of 95°06'53", Northwesterly, Northerly and Northeasterly for 124.50 feet to a Point of Tangency; thence North 57°46'12" East for 548.27 feet to a Point of Curvature of a Curve concave to the Northwest having a Radius of 200.00 feet; thence along the Arc of said Curve, through a Central Angle of 11°36'22" Northeasterly for 40.51 feet to a Point of Tangency; thence North 46°09'51" East for 62.36 feet to a Point of Curvature of a Curve concave to the South and having a Radius of 25.00 feet; thence along the Arc of said Curve, through a Central Angle of 96°29'28" Northeasterly, Easterly and Southeasterly for 42.10 feet to a Point of Tangency; thence South 37°20'41" East for 125.51 feet to a Point of Curvature of a Curve concave to the Northeast and having a Radius of 40.00 feet; thence along the Arc of said Curve, through a Central Angle of 05°44'21", Southeasterly for 4.01 feet to the POINT OF BEGINNING.

Containing 2.931 Acres.

DESCRIPTION: RESERVE PARCEL NO. 4 (NOT INCLUDED)

A Parcel of Land lying in Section 18, Township 35 South, Range 40 East, Saint Lucie County, Florida, being more particularly described as follows:

Commencing at the southeast corner of said Section 18; thence along the east line of said Section 18, on an assumed bearing, North 01°28'11" East for 358.41 feet to its intersection with the northeasterly extension line of the northwesterly Right-of-Way Line of OKEECHOBEE ROAD (STATE ROAD 70); thence along said extension line South 52°39'19" West for 211.70 feet to the POINT OF BEGINNING: thence along said R/W Line South 52°39'19" West for 110.66 feet to the Point of Intersection with a Curve concave to the Northeast, having a Radius of 40.00 feet and to which Point a Radial Line bears South 29°04'38" West; thence along the Arc of said Curve, through a Central Angle of 23°34'41" Northwesterly for 16.46 feet to a Point of Tangency; thence North 37°20'41" West for 119.00 feet to a Point of Curvature of a Curve concave to the East and having a Radius of 40.00 feet; thence along the Arc of said Curve, through a Central Angle of 90°00'00" Northwesterly, Northerly and Northeasterly for 62.83 feet to a Point of Tangency; thence North 52°39'19" East for 207.92 feet to a Point of Curvature of a Curve concave to the Southeast and having a Radius of 175.00 feet; thence along the Arc of said Curve, through a Central Angle of 51°11'08", Northeasterly for 156.34 feet to a Point of Tangency; thence North 01°28'11" East for 57.12 feet to a Point of Curvature of a Curve concave to the Southeast and having a Radius of 40.00 feet; thence along the Arc of said Curve, through a Central Angle of 90°00'00" Northeasterly and Easterly for 62.83 feet to a Point of Tangency; thence South 88°31'49" East for 7.00 feet to a Point of Curvature of a Curve concave to the Southwest and having a Radius of 40.00 feet; thence along the Arc of said Curve, through a Central Angle of 55°35'19" Southeasterly for 38.81 feet to its intersection with the westerly Right-of-Way Line of HARTMAN ROAD: thence along said R/W Line South 01°28'11" West for 333.61 feet to the Point of Intersection with the northwesterly Right-of-Way Line of said OKEECHOBEE ROAD and with a Curve concave to the Southeast, having a Radius of 1970.08 feet and to which Point a Radial Line bears North 32°17'35" West; thence along the Arc of said Curve and along the northwesterly Right-of-Way Line of said OKEECHOBEE ROAD, through a Central Angle of 05°03'07", Southwesterly for 173.71 feet to the POINT OF BEGINNING. Containing 1.749 Acres.

REISSUED 7/13/01 SSB DETAIL 8/10/00
REISSUED 12/16/99 SSB
REISSUED 4/30/97 SSB
REVISED 11-13-84

REVISIONS (SHEET 3)		
BY	DATE	DESCRIPTION
BK	3-2-83	RE-LABELED PARCELS
"	"	BELK LINDSEY
"	"	DEVELOPER SITE
"	3-22-83	REVISE DESC
"	4-3-83	DEVELOPER SITE, SEARS SITE

DRAWN BY: B.C. KIERNAN | CHECKED BY: M.G.
DATE: 1-18-83 | SCALE:

JOB NO.: 477-02
FIELD BOOK:
FILE NO: 477-02

SHEET TITLE: DESCRIPTION COMPOSITE
PROJECT: ORANGE BLOSSOM MALL

STEPHEN J. BROWN INC.
SURVEYORS DESIGNERS
LANDPLANNERS CONSULTANTS
619 EAST 5th STREET, STUART, FLORIDA; 34994
(561) 288-7176

SHEET NO.: 3 OF: 5

FUTURE DEVELOPMENT PARCEL

DESCRIPTION: PARCEL #1

A Parcel of Land lying in Sections 18 and 19, Township 35 South, Range 40 East, Saint Lucie County, Florida; The portion lying in said Section 19 being a part of Lot 3 of MODEL LAND COMPANY SUBDIVISION according to the Plat thereof as recorded in Plat Book 3 at page 63 of the Public Records of Saint Lucie County, Florida and being more particularly described as follows:

Commencing at the southeast corner of said Section 18; thence along the east line of said Section 18, on an assumed bearing, North 01°28'11" East for 358.41 feet to its intersection with the northeasterly extension of the northwesterly Right-of-Way Line of OKEECHOBEE ROAD (STATE ROAD 70); thence along said extension South 52°39'19" West for 1698.92 feet to its intersection with the south line of said Lot 3; thence along said south line South 89°11'12" West for 235.00 feet to the POINT OF BEGINNING; thence continuing along said south line of said Lot 3 South 89°11'12" West for 138.10 feet to its intersection with the easterly line of that certain Parcel of Land described in O.R. Book 291 at pages 1331 and 1332 of the Public Records of Saint Lucie County, Florida; thence along said easterly line for the four following courses: (1) North 47°49'52" West for 113.11 feet (2) North 12°51'36" West for 581.68 feet (3) North 23°55'03" West for 157.05 feet (4) North 12°27'22" West for 1405.41 feet to the terminating Point of said fourth course; thence North 89°20'14" East for 1011.51 feet to its intersection with the east line of the west half of the southeast quarter of said Section 18; thence along said east line South 01°05'11" West for 192.68 feet to the northwest corner of the southeast quarter of the southeast quarter of said Section 18; thence along the north line of the southeast quarter of the southeast quarter of said Section 18 North 89°19'26" East for 289.67 feet to its intersection with the westerly Right-of-Way Line of HARTMAN ROAD; said Right-of-Way being parallel with and 25 feet westerly of the east line of said Section 18; thence along said Right-of-Way Line and along said parallel line South 01°28'11" West for 552.96 feet; thence North 88°31'49" West for 5.00 feet to a Point of Curvature of a Curve concave to the North and having a Radius of 25.00 feet; thence along the Arc of said Curve, through a Central Angle of 200°00'00" Southerly, Southwesterly, Westerly, Northwesterly, and Northerly for 87.27 feet to a Point of Tangency; thence North 21°28'11" East for 17.00 feet to a Point of Curvature of a Curve concave to the West and having a Radius of 500.00 feet; thence along the Arc of said Curve, through a Central Angle of 18°24'50" Northerly for 160.69 feet to a Point of Compound Curve of a Curve concave to the Southwest and having a Radius of 300.00 feet; thence along the Arc of said Curve, through a Central Angle of 74°56'17", Northwesterly for 392.37 feet to a Point of Compound Curve of a Curve concave to the South and having a Radius of 1,000.00 feet; thence along the Arc of said Curve, through a Central Angle of 24°32'16" Westerly for 428.27 feet to a Point of Tangency; thence South 83°34'48" West for 21.59 feet to a Point of Curvature of a Curve concave to the Southeast and having a Radius of 114.99 feet; thence along the Arc of said Curve, through a Central Angle of 24°31'51" for 49.23 feet to a Point of Tangency; thence South 59°02'57" West for 27.97 feet to a Point of Curvature of a Curve concave to the North and having a Radius of 600.00 feet; thence along the Arc of said Curve, through a Central Angle of 30°55'55", Westerly for 323.92 feet to Point of Reverse Curve of a Curve concave to the Southeast and having a Radius of 500.00 feet; thence along the Arc of said Curve, through a Central Angle of 37°19'33" Southwesterly for 325.73 feet to a Point of Tangency; thence South 52°39'19" West for 505.00 feet to a Point of Curvature of a Curve concave to the Southeast and having a Radius of 500.00 feet; thence along the Arc of said curve, through a Central Angle of 65°06'41" Southwesterly and Southerly for 568.20 feet to a Point of Tangency; thence South 12°27'22" East for 67.47 feet; to a Point of Curvature of a Curve concave to the Northeast and having a Radius of 500.00 feet; thence along the Arc of said Curve, through a Central Angle of 15°29'15" Southerly for 135.15 feet to a Point of Tangency; thence South 27°56'37" East for 3.71 feet to a Point of Curvature of a Curve concave to the Southwest and having a Radius of 400.00 feet; thence along the Arc of said Curve, through a Central Angle of 15°05'01" for 105.30 feet to a Point of Tangency; thence South 12°51'36" East for 151.85 feet to a Point of Curvature of a Curve concave to the Northeast and having a Radius of 175.00 feet; thence along the Arc of said Curve, through a Central Angle of 24°29'05", Southeasterly for 74.78 feet to a Point of Tangency; thence South 37°20'41" East for 155.55 feet to a Point of Curvature of a Curve concave to the Northeast and having a Radius of 265.00 feet; thence along the Arc of said Curve through a Central Angle of 27°37'46", Southeasterly for 127.79 feet; thence South 00°48'48" East for 220.67 feet to the POINT OF BEGINNING.

Containing 21.532 Acres.

DESCRIPTION: ENTRANCE NO. 1 PARCEL (INFORMATIONAL ONLY)

A Parcel of Land lying in Section 19, Township 35 South, Range 40 East, Saint Lucie County, Florida; being a part of Lot 3 of MODEL LAND COMPANY SUBDIVISION according to the Plat thereof as recorded in Plat Book 3 at page 63 of the Public Records of Saint Lucie County, Florida and being more particularly described as follows:

Commencing at the southeast corner of Section 18, Township 35 South, Range 40 East, Saint Lucie County, Florida; thence along the east line of said Section 18, on an assumed bearing North 01°28'11" East for 358.41 feet to its intersection with the northeasterly extension of the northwesterly Right-of-Way Line of OKEECHOBEE ROAD (STATE ROAD 70); thence along said extension and along said R/W Line South 52°39'19" West for 1630.65 feet to the POINT OF BEGINNING; thence along said R/W Line continuing South 52°39'19" West for 53.34 feet to the Point of Intersection with a Curve concave to the Southwest, having a Radius of 50.00 feet and to which Point a Radial Line bears North 76°14'00" East; thence along the Arc of said Curve, through a Central Angle of 23°34'41" Northwesterly for 20.58 feet to a Point of Tangency; thence North 37°20'41" West for 85.00 feet to a Point of Curvature of a Curve concave to the Northeast and having a Radius of 143.00 feet; thence along the Arc of said Curve through a Central Angle of 10°01'46" Northwesterly for 25.03 feet to a Point of Reverse Curve of a Curve concave to the Northeast and having a Radius of 150.00 feet; thence along the Arc of said Curve, through a Central Angle of 49°14'55", Northwesterly for 128.93 feet to a Point of Tangency; thence South 76°33'50" East for 65.65 feet; thence North 52°39'19" East for 130.80 feet to a Point of Curvature of a Curve concave to the east and having a Radius of 95.00 feet; thence along the Arc of said Curve, through a Central Angle of 90°00'00" Southwesterly, Southerly and Southeasterly for 149.23 feet to a Point of Tangency; thence South 37°20'41" East for 95.00 feet to a Point of Curvature of a Curve concave to the Southeast and having a Radius of 40.00 feet; thence along the Arc of said Curve, through a Central Angle of 14°28'39" Southeasterly for 10.11 feet to the POINT OF BEGINNING.

Containing 0.266 Acres.

DESCRIPTION: ENTRANCE NO. 2 PARCEL (INFORMATIONAL ONLY)

A Parcel of Land lying in Section 19, Township 35 South, Range 40 East, Saint Lucie County, Florida; being a part of Lot 2 of MODEL LAND COMPANY SUBDIVISION according to the Plat thereof as recorded in Plat Book 3 at page 63 of the Public Records of Saint Lucie County, Florida and being more particularly described as follows:

Commencing at the southeast corner of Section 18, Township 35 South, Range 40 East, Saint Lucie County, Florida; thence along the east line of said Section 18, on an assumed bearing, North 01°28'11" East for 358.41 feet to its intersection with the northeasterly extension of the northwesterly Right-of-Way line of OKEECHOBEE ROAD (STATE ROAD 70); thence along said extension and along said R/W Line South 52°39'19" West for 1114.41 feet to the POINT OF BEGINNING; thence along said R/W Line continuing South 52°39'19" West for 77.49 feet to the Point of Intersection with a Curve concave to the Southwest, having a Radius of 40.00 feet and to which Point a Radial Line bears North 58°23'40" East; thence along the Arc of said Curve, through a Central Angle of 05°44'21", Northwesterly for 4.01 feet to a Point of Tangency; thence North 37°20'41" West for 166.00 feet to a Point of Curvature of a Curve concave to the South and having a Radius of 30.00 feet; thence along the Arc of said Curve, through a Central Angle of 90°00'00" Northwesterly, Westerly and Southwesterly for 47.12 feet to a Point of Tangency; thence North 52°39'19" East for 133.55 feet; thence North 57°46'12" East for 48.33 feet to a Point of Curvature of a Curve concave to the East and having a Radius of 75.00 feet; thence along the Arc of said Curve, through a Central Angle of 95°06'53" Southwesterly, Southerly and Southeasterly for 124.50 feet to a Point of Tangency; thence South 37°20'41" East for 94.99 feet to a Point of Curvature of a Curve concave to the Southwest and having a Radius of 50.00 feet; thence along the Arc of said Curve, through a Central Angle of 31°19'56" Southeasterly for 27.34 feet to the POINT OF BEGINNING.

Containing 0.360 Acres.

DESCRIPTION: ENTRANCE NO. 3 PARCEL (INFORMATIONAL ONLY)

A Parcel of Land lying in Section 18, Township 35 South, Range 40 East, Saint Lucie County, Florida; being more particularly described as follows:

Commencing at the southeast corner of said Section 18; thence along the east line of said Section 18, on an assumed bearing, North 01°28'11" East for 358.41 feet to its intersection with the northeasterly extension of the northwesterly Right-of-Way line of OKEECHOBEE ROAD (STATE ROAD 70); thence along said extension and along said R/W Line South 52°39'19" West for 322.36 feet to the POINT OF BEGINNING; thence along said R/W Line continuing South 52°39'19" West for 41.54 feet to the Point of Intersection with a curve concave to the Southwest, having a Radius of 40.00 feet and to which Point a Radial Line bears North 58°23'40" East; thence along the Arc of said Curve, through a Central Angle of 05°44'21", Northwesterly for 4.01 feet to a Point of Tangency; thence North 37°20'41" West for 125.51 feet to a Point of Curvature of a Curve concave to the South and having a Radius of 25.00 feet; thence along the Arc of said Curve, through a Central Angle of 96°29'28" Northwesterly, Westerly and Southwesterly for 42.10 feet; thence North 39°50'41" East for 93.15 feet; thence North 52°39'19" East for 15.00 feet to a Point of Curvature of a Curve concave to the East and having a Radius of 40.00 feet; thence along the Arc of said Curve, through a Central Angle of 90°00'00" Southwesterly, Southerly and Southeasterly for 62.83 feet to a Point of Tangency, thence South 37°20'41" East for 119.00 feet to a Point of Curvature of a Curve concave to the Northeast and having a Radius of 40.00 feet; thence along the Arc of said Curve, through a Central Angle of 23°34'41" Southeasterly for 16.46 feet to the POINT OF BEGINNING.

Containing 0.156 Acres.

DESCRIPTION: ENTRANCE #4 PARCEL (INFORMATIONAL ONLY)

A Parcel of Land lying in Section 18, Township 35 South, Range 41 East, Saint Lucie County, Florida and being more particularly described as follows:

Commencing at the southeast corner of said Section 18; thence along the east line of said Section 18, on an assumed bearing, North 01°28'11" East for 679.50 feet' thence North 88°31'49" West for 25.00 feet to the Point of Intersection with the westerly Right-of-Way Line of HARTMAN ROAD; said Point being also the POINT OF BEGINNING; thence along the said R/W Line of said HARTMAN ROAD South 01°28'11" West for 17.40 feet to the point of Intersection with a curve concave to the Southeast, having a Radius of 40.00 feet and to which Point a Radial Line bears North 57°03'30" East; thence along the Arc of said Curve, through a Central Angle of 55°35'19" Northwesterly for 38.81 feet to a Point of Tangency; thence North 88°31'49" West for 47.00 feet; thence North 01°28'11" East for 18.72 feet; thence North 21°28'11" East for 41.80 feet; thence South 88°31'49" East for 35.70 feet to a Point of Curvature of a Curve concave to the North and having a Radius of 25.00 feet; thence along the Arc of said Curve, through a Central Angle of 90°00'00" Northeasterly for 39.27 feet to a Point of Tangency; thence South 88°31'49" East for 5.00 feet to its intersection with the westerly R/W Line of said HARTMAN ROAD; thence along said R/W Line South 01°28'11" West for 83.00 feet to the POINT OF BEGINNING.

Containing 0.109 Acres

DESCRIPTION: RING ROAD PARCEL (INFORMATIONAL ONLY)

A Parcel of Land lying in Sections 18 and 19, Township 35 South, Range 40 East, Saint Lucie County, Florida; The portion lying in said Section 19 being a part of Lots 1, 2 and 3 of MODEL LAND COMPANY SUBDIVISION according to the Plat thereof as recorded in Plat Book 3 at page 63 of the Public Records of Saint Lucie County, Florida, said Parcel of Land being a strip of land having an average width of 36 feet more or less and being that Remnant Portion comprised between the hereinafter described OUTSIDE AND THE INSIDE RING ROAD TRACTS, said tracts of Land being more particularly described as follows:

OUTSIDE RING ROAD TRACT:

Commencing at the southeast corner of said Section 18; thence along the east line of said Section 18, on an assumed bearing, North 01°28'11" East for 358.41 feet to its intersection with the northeasterly extension line of the northwesterly Right-of-Way Line of OKEECHOBEE ROAD (STATE ROAD 70); thence along said extension line South 52°39'19" West for 77.78 feet; thence North 37°20'41" West for 175.00 feet to the POINT OF BEGINNING of SAID OUTSIDE RING ROAD TRACT; thence South 52°39'19" West for 222.92 feet; thence South 39°50'41" West for 93.15 feet; thence South 46°09'51" West for 62.36 feet to the Point of Curvature of a Curve concave to the Northwest and having a Radius of 200.00 feet; thence along the Arc of said Curve, through a Central Angle of 11°36'22", Southwesterly for 40.51 feet to a Point of Tangency; thence South 57°46'12" West for 596.60 feet; thence South 52°39'19" West for 579.57 feet; thence North 76°33'50" West for 93.63 feet to a Point of Curvature of a Curve concave to the Northeast and having a Radius of 265.00 feet; thence along the Arc of said Curve through a Central Angle of 39°13'09", Northwesterly for 181.39 feet to a Point of Tangency; thence North 37°20'41" West for 155.55 feet to a Point of Curvature of a Curve concave to the Northeast and having a Radius of 175.00 feet; thence along the Arc of said Curve, through a Central Angle of 24°29'05", Northwesterly for 74.78 feet to a Point of Tangency; thence North 12°51'36" West for 151.85 feet to a Point of Curvature of a Curve concave to the Southwest and having a Radius of 400.00 feet; thence along the Arc of said Curve, through a Central Angle of 15°05'01" Northwesterly for 105.30 feet to a Point of Tangency; thence North 27°56'37" West for 3.71 feet to a Point of Curvature of a Curve concave to the Northeast and having a Radius of 500.00 feet; thence along the Arc of said Curve, through a Central Angle of 15°29'15" Northerly for 135.15 feet to a Point of Tangency; thence North 12°27'22" West for 67.47 feet to a Point of Curvature of a Curve concave to the East and having a Radius of 500.00 feet; thence along the Arc of said Curve, through a Central Angle of 65°06'41", Northerly and Northeasterly for 568.20 feet to a Point of Tangency; thence North 52°39'19" East for 505.00 feet to a Point of Curvature of a Curve concave to the South and having a Radius of 500.00 feet; thence along the Arc of said Curve, through a Central Angle of 37°19'33" Easterly for 325.73 feet to a Point of Reverse Curve of a Curve concave to the North and having a Radius of 600.00 feet; thence along the Arc of said Curve, through a Central Angle of 30°55'55" Easterly for 323.92 feet to a Point of Tangency; thence North 59°02'57" East for 27.97 feet to a Point of Curvature of a Curve concave to the Southeast and having a Radius of 114.99 feet; thence along the Arc of said Curve, through a Central Angle of 24°31'51" Easterly for 49.23 feet to a Point of Tangency; thence North 83°34'48" East for 21.59 feet to a Point of Curvature of a Curve concave to the South and having a Radius of 1000.00 feet; thence along the Arc of said Curve, through a Central Angle of 24°32'16" Easterly for 428.27 feet to a Point of Compound Curve of a Curve concave to the Southwest and having a Radius of 300.00 feet; thence along the Arc of said Curve, through a Central Angle of 74°56'17", Southeasterly for 392.37 feet to a Point of Compound Curve of a Curve concave to the West and having a Radius of 500.00 feet; thence along the Arc of said Curve, through a Central Angle of 21°28'11" Southerly for 169.69 feet to a Point of Tangency; thence South 21°28'11" West for 94.50 feet; thence South 01°28'11" West for 115.84 feet to a Point of Curvature of a Curve concave to the Southeast and having a Radius of 175.00 feet; thence along the Arc of said Curve, through a Central Angle of 51°11'08" Southerly and Southwesterly for 156.34 feet to the POINT OF BEGINNING of said OUTSIDE RING ROAD TRACT. Said OUTSIDE RING ROAD TRACT containing 50.380 Acres,

RING ROAD PARCEL . . . . . Continued
EXCEPTING THEREFROM:

INSIDE RING ROAD TRACT: more particularly described as follows:

Commencing at the POINT OF BEGINNING of said OUTSIDE RING ROAD TRACT; thence North 37°20'41" West for 36.00 feet to the POINT OF BEGINNING of said INSIDE RING ROAD TRACT: thence South 52°39'19" West for 207.92 feet; thence South 43°25'23" West for 174.11 feet; thence South 51°58'02" West for 33.16 feet; thence South 52°39'19" West for 598.21 feet; thence South 52° 39'19" West for 492.90 feet to the Point of Curvature of a Curve concave to the North and having a Radius of 150.00 feet; thence along the Arc of said Curve, through a Central Angle of 50°46'51", Southwesterly, Westerly and Northwesterly for 132.94 feet to a Point of Tangency; thence North 76°33'50" West for 5.35 feet to a Point of Curvature of a curve concave to the Northeast and having a radius of 229.00 feet; thence along the arc of said curve, through a Central Angle of 39°13'09" Northwesterly for 156.75 feet to a Point of Tangency; thence North 37°20'41" West for 155.55 feet to a Point of Curvature of a curve concave to the East and having a radius of 139.00 feet; thence along the arc of said curve, through a Central Angle of 24°29'05" Northerly for 59.40 feet to a Point of Tangency; thence North 12°51'36" West for 151.85 feet to a Point of Curvature of a curve concave to the West and having a radius of 436.00 feet; thence along the arc of said curve, through a Central Angle of 15°05'01" Northerly for 114.78 feet to a Point of Tangency; thence North 27°56'37" West for 3.71 feet to a Point of Curvature of a curve concave to the East and having a radius of 464.00 feet; thence along the arc of said curve, through a Central Angle of 15°29'15" Northerly for 125.42 feet to a Point of Tangency; thence North 12°27'22" West for 67.47 feet to a Point of Curvature of a curve concave to the East and having a radius of 464.00 feet; thence along the arc of said curve, through a Central Angle of 65°06'41", Northerly and Northeasterly for 527.29 feet to a Point of Tangency; thence North 52°39'19" East for 505.00 feet to a Point of Curvature of a Curve concave to the Southeast and having a Radius of 464.00 feet; thence along the Arc of said Curve, through a Central Angle of 37°19'33", Northeasterly for 302.28 feet to a Point of Reverse Curve of a Curve concave to the Southeast and having a Radius of 636.00 feet; thence along the Arc of said Curve, through a Central Angle of 30°55'55", Easterly for 343.36 feet to a Point of Tangency; thence North 59°02'57" East for 27.97 feet to a Point of Curvature of a Curve concave to the South and having a Radius of 78.99 feet; thence along the Arc of said Curve, through a Central Angle of 24°31'51", Easterly for 33.82 feet to a Point of Tangency; thence North 83°34'48" East for 21.59 feet to a Point of Curvature of a Curve concave to the South and having a Radius of 964.00 feet; thence along the Arc of said Curve, through a Central Angle of 24°32'16", Easterly for 412.85 feet to a Point of Compound Curve of a Curve concave to the Southwest and having a Radius of 264.00 feet; thence along the Arc of said Curve, through a Central Angle of 74°56'17", Southeasterly for 345.29 feet to a Point of Compound Curve of a Curve concave to the West and having a Radius of 464.00 feet; thence along the Arc of said Curve, through a Central Angle of 18°24'50", Southerly for 149.12 feet to a Point of Tangency; thence South 21°28'11" West for 47.95 feet to a Point of Curvature of a Curve concave to the East and having a Radius of 300.00 feet; thence along the Arc of said Curve, through a Central Angle of 20°00'00", Southerly for 104.72 feet to a Point of Tangency; thence South 01°28'11" West for 69.29 feet to a Point of Curvature of a Curve concave to the Southwest and having a Radius of 139.00 feet; thence along the Arc of said Curve, through a Central Angle of 51°11'08", Southerly and Southwesterly for 124.18 feet to the POINT OF BEGINNING of said INSIDE RING ROAD TRACT, said INSIDE RING ROAD TRACT Containing 45.722 Acres.

The Acreage of said RING ROAD PARCEL being the difference in Acreage between the said OUTSIDE and said INSIDE RING ROAD TRACTS or 4.658 Acres.

Reissue 7/13/01
Up Dated 8/10/00 SJB
Reissued 12/10/99 SJB
Reissued 6/30/97 SJB
REVISED 11-13-84

REVISIONS (SHEET 4)

BY	DATE	DESCRIPTION
M.G.	1-22-83	1st REVISION
"	3-2-83	COMBINED FORMER PARCELS 8 & 9 TO FUTURE DEV. PARCEL
B.K.	3-22-83	REVISE DESC.

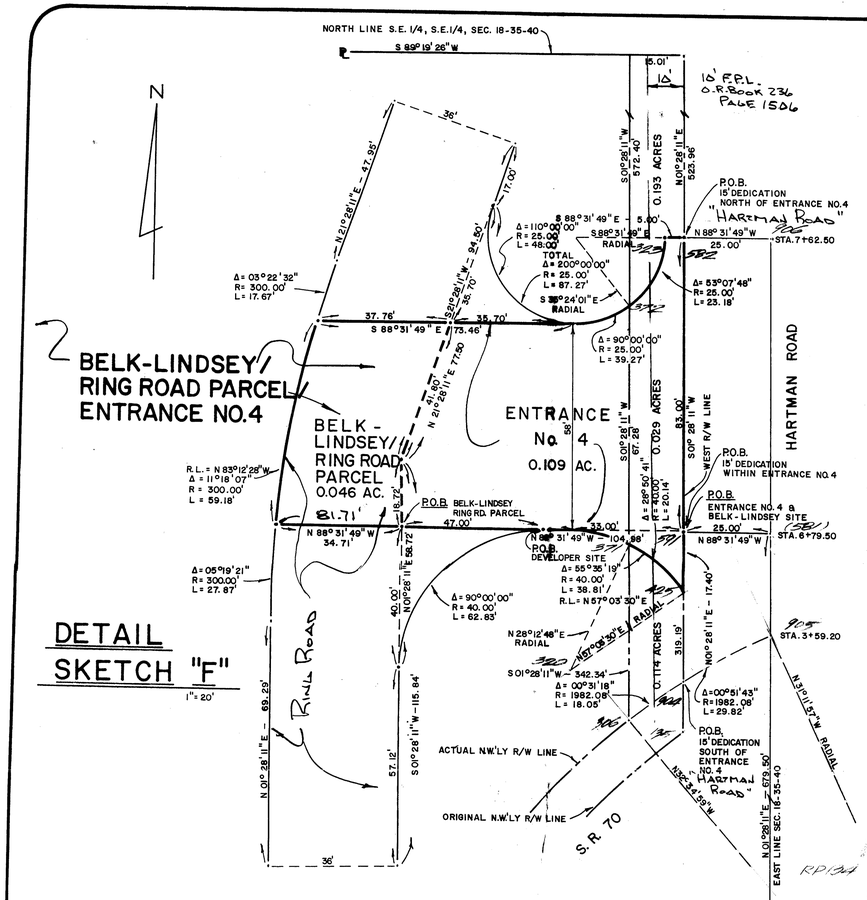
DRAWN BY: B.C. KIERNAN
CHECKED BY: M.G.
DATE: 1-25-83
SCALE:

JOB NO.: 477-02
FIELD BOOK:
FILE NO.: 477-02

SHEET TITLE: DESCRIPTION COMPOSITE
PROJECT: ORANGE BLOSSOM MALL

STEPHEN J. BROWN INC.
SURVEYORS DESIGNERS
LANDPLANNERS CONSULTANTS
619 EAST 5th STREET STUART, FLORIDA; 34994
(561) 288-7176

SHEET NO.: 4 OF: 5



BELK-LINDSEY/RING ROAD PARCEL/ENTRANCE NO. 4

BELK/LINDSEY-RING ROAD PARCEL

DESCRIPTION: (INFORMATIONAL ONLY)

A parcel of land lying in Section 18, Township 35 South, Range 40 East, St. Lucie County, Florida and being more particularly described as follows:

Commencing at the southeast corner of said Section 18; thence along the east line of said Section 18, on an assumed bearing, North 01°28'11" East for 679.50 feet; thence North 88°31'49" West for 104.98 feet to the POINT OF BEGINNING; thence continuing North 88°31'49" West for 34.71 feet to a Point of Curvature of a curve concave to the east, having a Radius of 300.00 feet and to which point a Radial Line bears North 83°12'28" West; thence along the Arc of said Curve, through a Central Angle of 11°18'07" northerly for 59.18 feet; thence South 88°31'49" East for 37.76 feet; thence South 21°28'11" West for 41.80 feet; thence South 01°28'11" West for 18.72 feet to the POINT OF BEGINNING.

Containing 0.046 Acres.

TOGETHER WITH: (INFORMATIONAL ONLY)

DESCRIPTION: ENTRANCE #4 PARCEL.

A Parcel of Land lying in Section 18, Township 35 South, Range 41 East, Saint Lucie County, Florida and being more particularly described as follows:

Commencing at the southeast corner of said Section 18; thence along the east line of said Section 18, on an assumed bearing, North 01°28'11" East for 679.50 feet' thence North 88°31'49" West for 25.00 feet to the Point of Intersection with the westerly Right-of-Way Line of HARTMAN ROAD; said Point being also the POINT OF BEGINNING; thence along the said R/W Line of said HARTMAN ROAD South 01°28'11" West for 17.40 feet to the point of Intersection with a curve concave to the Southwest, having a Radius of 40.00 feet and to which Point a Radial Line bears North 57°03'30" East; thence along the Arc of said Curve, through a Central Angle of 55°35'19" Northwesterly for 38.81 feet to a Point of Tangency; thence North 88°31'49" West for 47.00 feet; thence North 01°28'11" East for 18.72 feet; thence North 21°28'11" East for 41.80 feet; thence South 88°31'49" East for 35.70 feet to a Point of curvature of a Curve concave to the North and having a Radius of 25.00 feet; thence along the Arc of said Curve, through a Central Angle of 90°00'00" Northeasterly for 39.27 feet to a Point of Tangency; thence South 88°31'49" East for 5.00 feet to its intersection with the westerly R/W Line of said HARTMAN ROAD; thence along said R/W Line South 01°28'11" West for 83.00 feet to the POINT OF BEGINNING.

Containing 0.109 Acres

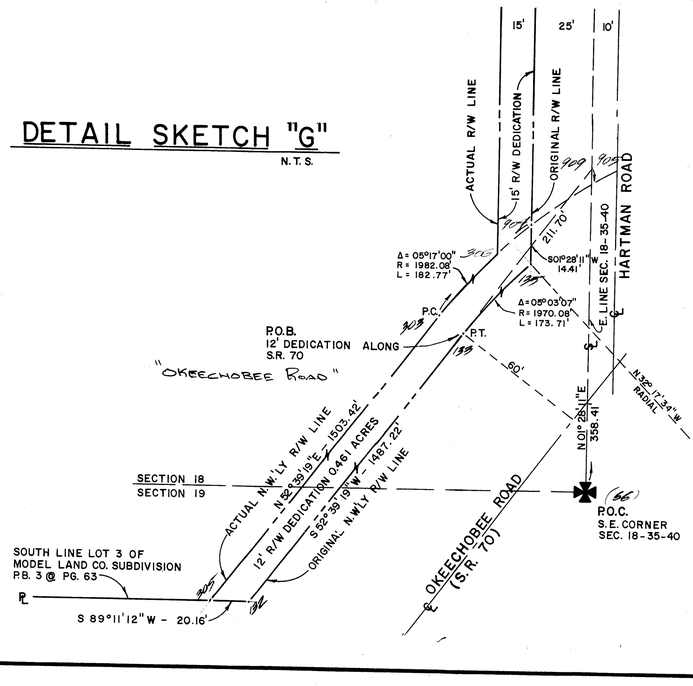
12 FT. R/W DEDICATION
along Okeechobee Road
(S.R. 70)

DESCRIPTION

A strip of land in Sections 18 & 19, Township 35 South, Range 40 East, Saint Lucie County, Florida; the southeasterly line of which coincides with the northwesterly Right-of-Way Line of OKEECHOBEE ROAD (STATE ROAD 70); said strip of land being more particularly described as follows:

COMMENCING at the southeast corner of said Section 18; THENCE along the east line of said Section 18, on an assumed bearing: North 01°28'11" East 358.41 feet to its intersection with the northeasterly extension of said northwesterly Right-of-Way; THENCE along said extension: South 52°39'19" West 211.70 feet to the POINT OF BEGINNING; said Point of Beginning being also on said northwesterly Right-of-Way Line; THENCE along said R/W Line, continuing South 52°39'19" West 1487.22 feet to its intersection with the south line of Lot 3 of MODEL LAND COMPANY SUBDIVISION according to the Plat thereof as recorded in Plat Book 3 at page 63 of the Public Records of Saint Lucie County, Florida; THENCE along said south line: South 89°11'12" West 20.16 feet to its intersection with a line parallel with and 12 feet northeasterly of said R/W Line; THENCE along said parallel line: North 52°39'19" East 1503.42 feet to a Point of Curvature of a Curve, concave to the southeast and having a Radius of 1982.08 feet; THENCE along the arc of a Curve, concentric with and 12 feet northeasterly of said R/W Line, through a Central Angle of 05°17'00": Northeasterly 182.77 feet to the Right-of-Way Line of HARTMAN ROAD; THENCE along said R/W Line: South 01°28'11" West 14.41 feet to its intersection with the northwesterly Right-of-Way Line of said OKEECHOBEE ROAD; said Point of Intersection being also a Point on a Curve, concave to the southeast, having a Radius of 1970.08 feet and to which Point a Radial Line bears: North 32°17'34" West; THENCE along said R/W Line and along the arc of said Curve; through a Central Angle of 05°03'07": Southwesterly 173.71 feet to a Point of Tangency; said Point of Tangency being also the Point of Beginning.

Containing 0.461 Acres



15 FT. R/W DEDICATION
along Hartman Road
North of entrance #4 Parcel

DESCRIPTION

A strip of land in Sections 18 Township 35 South, Range 40 East, Saint Lucie County, Florida; the easterly line of which coincides with the westerly Right-of-Way Line of HARTMAN ROAD; said strip of land being more particularly described as follows: COMMENCING at the southeast corner of said Section 18; THENCE along the east line of said Section 18, on an assumed bearing: North 01°28'11" East 762.50 feet THENCE North 88°31'49" West 25.00 feet to the Point of Intersection with the westerly R/W Line of said HARTMAN ROAD; said Point of Intersection being also the POINT OF BEGINNING; THENCE along said R/W Line: North 01°28'11" East 523.96 feet to its intersection with the north line of the Southeast quarter of the Southeast quarter of said section 18; THENCE along said north line: South 89°19'26" West 15.01 feet to its intersection with a line parallel with and 15 feet west of the westerly R/W Line of HARTMAN ROAD; THENCE along said parallel line South 01°28'11" West 572.40 feet to a Point on a Curve concave to the north, having a Radius of 25.00 feet and to which Point a Radial Line bears: South 35°24'01" East THENCE along the arc of said Curve, through a Central Angle of 53°07'48"; Northeasterly 23.18 feet THENCE South 88°31'49" East 5.00 feet to the POINT OF BEGINNING.

Containing 0.193 Acres.

15 FT. R/W DEDICATION
along Hartman Road
within entrance #4 Parcel

(INFORMATIONAL ONLY)

DESCRIPTION

A strip of land in Sections 18 Township 35 South, Range 40 East, Saint Lucie County, Florida; the easterly line of which coincides with the westerly Right-of-Way Line of HARTMAN ROAD; said strip of land being more particularly described as follows: COMMENCING at the southeast corner of said Section 18; THENCE along the east line of said Section 18, on an assumed bearing: North 01°28'11" East 679.50 feet THENCE North 88°31'49" West 25.00 feet to the Point of Intersection with the westerly R/W Line of said HARTMAN ROAD; said Point of Intersection being also the POINT OF BEGINNING; THENCE along said R/W Line: North 01°28'11" East 83.00 feet THENCE North 88°31'49" West 5.00 feet to a Point on a Curve concave to the north, having a Radius of 25.00 feet and to which Point a Radial Line bears: South 88°31'49" East THENCE along the arc of said Curve, through a Central Angle of 53°07'48"; Southwesterly 23.18 feet to its intersection with a line parallel with and 15 feet westerly of the westerly R/W Line of said HARTMAN ROAD; THENCE along said parallel line; South 01°28'11" West 67.28 feet to a Point on a Curve concave to the southwest, having a Radius of 40.00 feet and to which Point a Radial Line bears: North 28°12'48" East THENCE along the arc of said Curve, through a Central Angle of 28°50'41"; Southeasterly 20.14 feet to its intersection with the westerly R/W Line of said HARTMAN ROAD; THENCE along said R/W Line: North 01°28'11" East 17.40 feet to the POINT OF BEGINNING.

Containing 0.029 Acres.

15 FT. R/W DEDICATION
along Hartman Road
South of entrance #4 Parcel

DESCRIPTION

A strip of land in Sections 18 Township 35 South, Range 40 East, Saint Lucie County, Florida; the easterly line of which coincides with the westerly Right-of-Way Line of HARTMAN ROAD; said strip of land being more particularly described as follows: COMMENCING at the southeast corner of said Section 18; THENCE along the east line of said Section 18, on an assumed bearing: North 01°28'11" East 359.20 feet to its intersection with a line concentric with and 12 feet northwesterly of the northwesterly easterly extension of the R/W Line of OKEECHOBEE ROAD (S.R. 70) and to its intersection with a Point on a Curve concave to the Southeast, having a Radius of 1982.08 feet and to which Point a Radial Line bears: North 31°11'57" West; THENCE along said extension and along the arc of said Curve, through a Central Angle of 00°51'43": Southwesterly 29.82 feet to the Point of intersection with the westerly Right-of-Way Line of said HARTMAN ROAD; said Point of Intersection being also the POINT OF BEGINNING; THENCE along said R/W Line: North 01°28'11" East 319.19 feet to a Point on a Curve concave to the Southwest, having a Radius of 40.00 feet and to which Point a Radial Line bears: North 57°03'30" East; THENCE along the arc of said Curve, through a Central Angle of 28°50'41": Northwesterly 20.14 feet to its intersection with a line parallel with and 15 feet westerly of the R/W Line of said HARTMAN ROAD; THENCE along said parallel line: South 01°28'11" West 342.34 feet to a Point on a Curve concave to the Southeast, having a Radius of 1982.08 feet and to which Point a Radial Line bears: North 32°34'59" West; said Point being on a Curve concentric with and 12 feet northwesterly of the northwesterly R/W Line of OKEECHOBEE ROAD (S.R. 70); THENCE along the arc of said Curve, through a Central Angle of 00°31'18": Northeasterly 18.05 feet to the POINT OF BEGINNING.

Containing 0.114 Acres.

RETENTION POND AREA

DESCRIPTION: (INFORMATIONAL ONLY)

A Parcel of Land lying in Sections 18 and 19, Township 35 South, Range 40 East, Saint Lucie County, Florida; The portion lying in said Section 19 being a part of Lot 3 of MODEL LAND COMPANY SUBDIVISION according to the Plat thereof as recorded in Plat Book 3 at page 63 of the Public Records of Saint Lucie County, Florida and being more particularly described as follows:

Commencing at the southeast corner of said Section 18; thence along the east line of said Section 18, on an assumed bearing, North 01°28'11" East for 358.41 feet to its intersection with the northeasterly extension of the northwesterly Right-of-Way Line of OKEECHOBEE ROAD (STATE ROAD 70); thence along said extension South 52°39'19" West for 1698.92 feet to its intersection with the south line of said Lot 3; thence along said south line South 89°11'12" West for 235.00 feet to the POINT OF BEGINNING; thence continuing along said south line of said Lot 3 South 89°11'12" West for 138.10 feet to its intersection with the easterly line of that certain Parcel of Land described in O. R. Book 291 at pages 1331 and 1332 of the Public Records of Saint Lucie County, Florida; thence along said easterly line for the four following courses: (1) North 47°49'52" West for 113.11 feet (2) North 12°51'36" West for 581.68 feet (3) North 23°55'03" West for 157.05 feet (4) North 12°27'22" West for 1405.41 feet to the terminating Point of said fourth course; thence North 89°20'14" East for 1017.51 feet to its intersection with the east line of the west half of the southeast quarter of said Section 18; thence along said east line South 01°05'11" West for 192.68 feet to the northwest corner of the southeast quarter of the southeast quarter of said Section 18 North 89°19'26" East for 1289.67 feet to its intersection with the westerly Right-of-Way Line of HARTMAN ROAD; said Right-of-Way being parallel with and 25 feet westerly of the east line of said Section 18; thence along said Right-of-Way Line and along said parallel line South 01°28'11" West for 552.96 feet; thence North 88°31'49" West for 5.00 feet to a Point of Curvature of a Curve concave to the North and having a Radius of 25.00 feet; thence along the Arc of said Curve, through a Central Angle of 25.00 feet; thence along the Arc of said Curve, through a Central Angle of 200°00'00" Southerly, Southwesterly, Westerly, Northwesterly, and Northerly for 87.27 feet to a Point of Tangency; thence North 21°28'11" East for 17.00 feet to a Point of Curvature of a Curve concave to the West and having a Radius of 500.00 feet; thence along the Arc of said Curve, through a Central Angle of 18°24'50" Northerly for 160.69 feet to a Point of Compound Curve of a Curve concave to the Southwest and having a Radius of 300.00 feet; thence along the Arc of said Curve, through a Central Angle of 74°56'17", Northwesterly for 392.37 feet to a Point of Compound Curve of a Curve concave to the South and having a Radius of 1,000.00 feet; thence along the Arc of said Curve, through a Central Angle of 24°32'16" Westerly for 428.27 feet to a Point of Tangency; thence South 83°34'48" West for 21.59 feet to a Point of Curvature of a Curve concave to the Southeast and having a Radius of 114.99 feet; thence along the Arc of said Curve, through a Central Angle of 24°31'51" for 49.23 feet to a Point of Tangency; thence South 59°02'57" West for 27.97 feet to a Point of Curvature of a Curve concave to the North and having a Radius of 600.00 feet; thence along the Arc of said Curve, through a Central Angle of 30°55'55", Westerly for 323.92 feet to Point of Tangency; thence South 89°58'52" West for 16.92 feet to a Point of Curvature of a Curve concave to the Northeast and having a Radius of 300.00 feet; thence along the Arc of said curve, through a Central Angle of 38°10'27", Northwesterly for 199.88 feet to a Point of Tangency; thence North 51°50'41" West for 91.06 feet to a Point of Curvature of a Curve concave to the South and having a Radius of 475.00 feet; thence along the Arc of said curve, through a Central Angle of 75°30'00" Northwesterly, Westerly, and Southwesterly for 625.92 feet to a Point of Tangency; thence South 52°39'19" West for 28.17 feet to a Point of Curvature of a Curve concave to the Southeast and having a Radius of 400.00 feet; thence along the Arc of said curve through a Central Angle of 65°06'41" Southwesterly and Southerly for 454.56 feet to a Point of Tangency; thence South 12°27'22" East for 699.63 feet to a Point of Curvature of a Curve concave to the Northeast and having a Radius of 500.00 feet; thence along the Arc of said Curve, through a Central Angle of 15°29'15" Southerly for 135.15 feet to a Point of Tangency; thence South 27°56'37" East for 3.71 feet to a Point of Curvature of a Curve concave to the Southwest and having a Radius of 400.00 feet; thence along the Arc of said Curve, through a Central Angle of 15°05'01" for 105.30 feet to a Point of Tangency; thence South 12°51'36" East for 151.85 feet to a Point of Curvature of a Curve concave to the Northeast and having a Radius of 175.00 feet; thence along the Arc of said Curve, through a Central Angle of 24°29'05", Southeasterly for 74.78 feet to a Point of Tangency; thence South 37°20'41" East for 155.55 feet to a Point of Curvature of a Curve concave to the Northeast and having a Radius of 265.00 feet; thence along the Arc of said Curve through a Central Angle of 27°37'46", Southeasterly for 127.79 feet; thence South 00°48'48" East for 220.67 feet to the POINT OF BEGINNING.

Containing 11.966 Acres.

Reissued 7/12/01
Updated 8/10/00 SJB
Reissued 12/10/99 SJB
Revised 6/30/97 SJB
Revised 12-12-94
REVISED 11-13-84

REVISIONS (SHEET 5)		
BY	DATE	DESCRIPTION

JOB NO.: 477-02	SHEET TITLE: DESCRIPTION COMPOSITE
FIELD BOOK:	PROJECT: ORANGE BLOSSOM MALL
FILE NO.: 477-02	SHEET NO.: 5 OF: 5
DRAWN BY: B.C.KIERNAN	CHECKED BY: M.G.
DATE: 1-18-83	SCALE:

STEPHEN J. BROWN INC.
SURVEYORS DESIGNERS
LANDPLANNERS CONSULTANTS
619 EAST 5th STREET , STUART, FLORIDA; 34994
(561) 288-7176

	&	AND
	∠	ANGLE
	[	CHANNEL
	@	AT
	℄	CENTER LINE
	⌀	DIAMETER OR ROUND
	⊥	PERPENDICULAR
	#	POUND OR NUMBER
	(E)	EXISTING
A	A.B.	ANCHOR BOLT
	A.B.S.	ACRYLONITRILE BUTADIENE STYRENE
	ABV.	ABREVIATION
	A/C	AIR CONDITIONING
	ACOUS.	ACOUSTICAL
	ACT	ACOUSTIC CEILING TILE
	A.D.	AREA DRAIN
	ADD.	ADDENDUM
	A.F.F.	ABOVE FINISH FLOOR
	AGG.	AGGREGATE
	A.H.U.	AIR HANDLING UNIT
	ALLOW.	ALLOWANCE
	ALT.	ALTERNATE
	ALUM.	ALUMINUM
	ANOD.	ANODIZED
	APX.	APPROXIMATE
	ARCH.	ARCHITECT(URAL)
	ASPH.	ASPHALT
	AUTO.	AUTOMATIC
	AUX.	AUXILIARY
	AVG.	AVERAGE
B	BD.	BOARD
	BLDG.	BUILDING
	BLK.	BLOCK
	BLKG.	BLOCKING
	B.M.	BENCH MARK
	BOT.	BOTTOM
	B.PL.	BEARING PLATE
	BSMT.	BASEMENT
	B.U.R.	BUILT-UP ROOFING
C	C	COLOR
	CAB.	CABINET
	C.B.	CHALKBOARD
	CC.TV.	CLOSED-CIRCUIT TELEVISION
	CEM.	CEMENT
	CER.	CERAMIC
	C.FLASH.	COUNTER FLASHING
	C.F.M.	CUBIC FEET PER MINUTE
	C.G.	CORNER GUARD
	C.H.	COAT HOOK
	C.I.	CAST IRON
	C.J.	CONTROL JOINT
	CLG.	CEILING
	CLO.	CLOSET
	CLR.	CLEAR
	C.M.U.	CONCRETE MASONRY UNIT
	COL.	COLUMN
	COMP.	COMPONENT
	CONC.	CONCRETE
	CONST.	CONSTRUCTION
	CONT.	CONTINUOUS
	CPT.	CARPET
	C.R.	CURTAIN ROD
	CS.	COUNTERSINK
	C.T.	CERAMIC TILE
	CU.FT.	CUBIC FEET (FOOT)
	CU.IN.	CUBIC INCH
	CU.YD.	CUBIC YARD
	CX.	CONNECTION
D	DBL.	DOUBLE
	DEPT.	DEPARTMENT
	DET.	DETAIL
	D.F.	DRINKING FOUNTAIN
	D.H.	DOUBLE HUNG
	DIAG.	DIAGONAL
	DIA.	DIAMETER
	DIM.	DIMENSION
	DIV.	DIVISION
	DN.	DOWN
	D.O.	DOOR OPENING
	DR.	DOOR
	D.S.	DOWNSPOUT
	DWG.	DRAWING
	DWR.	DRAWER
E	E.	EAST
	EA.	EACH
	E/A	EXHAUST AIR
	E.B.	EXPANSION BOLT
	E.H.D.	ELECTRICAL HAND DRYER
	E.J.	EXPANSION JOINT
	EL.	ELEVATION
	ELEC.	ELECTRIC
	ELEV.	ELEVATOR
	EMER.	EMERGENCY
	ENCL.	ENCLOSURE
	EQ.	EQUAL
	EQPT.	EQUIPMENT
	E.W.C.	ELECTRICAL WATER COOLER
	EXH.	EXHAUST
	EXP.	EXPOSED
	EXIST	EXISTING
	EXT.	EXTERIOR
F	F.A.	FIRE ALARM
	F.D.	FLOOR DRAIN
	F.D.C.	FIRE DEPARTMENT CONNECTION
	F.D.C.C.	FIRE DEPARTMENT CONNECTION CABINET
	FDN.	FOUNDATION
	F.E.	FIRE EXTINGUISHER
	F.E.C.	FIRE EXTINGUISHER CABINET
	FEM.	FEMALE
	F.H.C.	FIRE HOSE CABINET
	F.H.M.S.	FLAT HEAD MACHINE SCREW
	F.H.R.	FIRE HOSE RACK
	F.H.W.S.	FLAT HEAD WOOD SCREW
	F.HY.	FIRE HYDRANT
	FIN.	FINISH
	F.L.	FLOW LINE
	FLASH.	FLASHING
	FLEX.	FLEXIBLE
	FLR.	FLOOR
	FLUOR.	FLUORESCENT
	F.MIR.	FRAMED MIRROR
	F.MIR.SH.	FRAMED MIRROR AND SHELF
	F.O.C.	FACE OF CONCRETE
	F.O.F.	FACE OF FINISH
	F.O.M.	FACE OF MASONRY
	F.O.S.	FACE OF STUDS
	F.S.	FULL SIZE
	FT.	FOOT (FEET)
	FTG.	FOOTING
	FURR.	FURRED
	FUT.	FUTURE
	F.W.C.	FABRIC WALL COVERING
G	GA.	GAUGE
	GALV.	GALVANIZED
	G.B.	GRAB BAR
	G.I.	GALVANIZED IRON
	GL.	GLASS
	GR.	GRADE
	GYP.	GYPSUM BOARD
H	H.	HIGH
	H.B.	HOSE BIB
	H.C.	HOLLOW CORE
	HDWD.	HARDWOOD
	HDWE.	HARDWARE
	H.M.	HOLLOW METAL
	HORIZ.	HORIZONTAL
	H.P.	HIGH POINT
	HR.	HOUR
	HT.	HEIGHT
I	I.D.	INSIDE DIAMETER
	IN.	INCH
	INCL.	INCLUDE
	INSUL.	INSULATION
	INT.	INTERIOR
	INTM.	INTERMEDIATE
	INV.	INVERT
J	JAN.	JANITOR
	JT.	JOINT
K	KIT.	KITCHEN
	K.O.	KNOCK OUT
L	LAB.	LABORATORY
	LAM.	LAMINATE
	LAV.	LAVATORY
	LB.	POUND
	LKR.	LOCKER
	L.L.H.	LONG LEG HORIZONTAL
	L.L.V.	LONG LEG VERTICAL
	L.P.	LOW POINT
	LT.	LIGHT
	LTL.	LINTEL
	LVL.	LEVEL
	LVR.	LOUVER
M	MAT.	MATERIAL
	MAX.	MAXIMUM
	M.B.	MARKER BOARD
	M.B.H.	MOP-BROOM HOLDER
	M.C.	MEDICINE CABINET
	MACH.	MACHINE
	MECH.	MECHANICAL
	MED.	MEDIUM
	MEMB.	MEMBRANE
	MTL.	METAL
	MEZZ.	MEZZANINE
	MFR.	MANUFACTURE
	M.H.	MAN HOLE
	MIN.	MINIMUM
	MIR.	MIRROR
	MISC.	MISCELLANEOUS
	MLDG.	MOULDING
	M.O.	MASONRY OPENING
	M.R.	MOISTURE RESISTANT
	MTD.	MOUNTED
	MTG.	MOUNTING
	MULL.	MULLION
N	N.	NORTH
	N.I.C.	NOT IN CONTRACT
	NO.	NUMBER
	NOM.	NOMINAL
	N.T.S.	NOT TO SCALE
O	O.A.	OVER ALL
	O/A	OUTSIDE AIR
	O.C.	ON CENTER
	O.D.	OUTSIDE DIAMETER
	OFF.	OFFICE
	OPNG	OPENING
	OPP.	OPPOSITE
	OPP.H.	OPPOSITE HAND
	OZ.	OUNCE
P	PBD.	PARTICLE BOARD
	P.C.C.	PRE-CAST CONCRETE
	PL.	PLATE
	P.LAM.	PLASTIC LAMINATE
	PLAS.	PLASTER
	PLYWD.	PLYWOOD
	PNL.	PANEL(ING)
	POL.	POLISH
	PR.	PAIR
	PROJ.	PROJECTION
	P.S.F.	POUNDS PER SQUARE FOOT
	P.S.I.	POUNDS PER SQUARE INCH
	P.T.	PRESSURE TREATED
	P.T.D.	PAINTED
	PTN.	PARTITION
	P.V.C.	POLYVINYL CHLORIDE
	PVMT.	PAVEMENT
Q	Q.T.	QUARRY TILE
	QTR.	QUARTER
R	R.	RISER OR RADIUS
	R/A	RETURN AIR
	RAD.	RADIUS
	R.D.	ROOF DRAIN
	RE.	REFERENCE
	REFR.	REFRIGERATOR
	REINF.	REINFORCED
	REQ.	REQUIRE(D)
	RESIL.	RESILIENT
	REV.	REVISE
	RM.	ROOM
	R.O.	ROUGH OPENING
	R.W.L.	RAIN WATER LEADER
S	S.	SOUTH
	S/A	SUPPLY AIR
	SAN.	SANITARY
	S.C.	SOLID CORE
	SCHED.	SCHEDULE
	SCR	SCREEN
	SECT.	SECTION
	SH.	SHELF
	SHR.	SHOWER
	SHT.	SHEET
	SIM.	SIMILAR
	S.N.D.	SANITARY NAPKIN DISPENSER
	S.N.R.	SANITARY NAPKIN RECEPTACLE
	S.N.T.D.	SANITARY NAPKIN-TAMPON DISPENSER
	SQ.	SQUARE
	S.SK.	SERVICE SINK
	S.S.	STAINLESS STEEL
	STL.	STEEL
	STA.	STATION
	STD.	STANDARD
	STOR.	STORAGE
	STR.	STRUCTURE
	SUR.	SURFACE
	SUSP.	SUSPENDED
	SYM.	SYMMETRICAL
	SYS.	SYSTEM
T	T.	TREAD
	T.B.	TACK BOARD
	T.O.C.	TOP OF CURB
	TEL.	TELEPHONE
	TEMP.	TEMPERED
	TERR.	TERRAZZO
	T&G	TONGUE AND GROOVE
	THER.	THERMAL
	THK.	THICK(NESS)
	THRES.	THRESHOLD
	T.O.P.	TOP OF PAVEMENT
	T.O.S.	TOP OF SLAB
	T.O.STL.	TOP OF STEEL
	TV.	TELEVISION
	T.O.W.	TOP OF WALL
	TYP.	TYPICAL
U	UR.	URINAL
	U.N.O.	UNLESS NOTED OTHERWISE
V	VB.	VINYL BASE
	V.C.T.	VINYL COMPOSITION TILE
	VERT.	VERTICAL
	VEST.	VESTIBULE
	V.I.F.	VERIFY IN FIELD
	VNR.	VENEER
	V.W.C.	VINYL WALL COVERING
W	W.	WEST
	W/	WITH
	W.A.U.	WALL ASH URN
	W.C.	WATER CLOSET
	WD.	WOOD
	WIN.	WINDOW
	W/O	WITHOUT
	WP.	WATERPROOF
	W.R.	WATER RESISTANT
	WSCT.	WAINSCOT
	WT.	WEIGHT
	W.W.M.	WELDED WIRE MESH

ABREVIATIONS | NTS | DATUM-1

- 3 / A5.12 — DETAIL NO. 3, SHEET NO. A5.12 — BUILDING OR WALL SECTION
- 25 / A5.15 — DETAIL NO. 25, SHEET NO. A5.15 — DETAIL REFERENCE
- 6 / A4.11 — DETAIL NO. 6, SHEET NO. A4.11 — ELEVATION
- a — VIEW a; 6 / A4.11 — DETAIL NO. 6, SHEET NO. A4.11 — INTERIOR ELEVATION
- PROPERTY LINE
- CENTER LINE
- HIDDEN LINE OR LINE ABOVE
- BREAK LINE
- PLAN NORTH / NORTH ARROW
- TRUE NORTH / NORTH ARROW (TRUE NORTH)
- 78.0 — EXISTING POINT ELEVATION
- 79.0 — NEW OR FINISH POINT ELEVATION
- 99.0 — EXISTING CONTOUR LINE
- 101.0 — NEW OR FINISH CONTOUR LINE
- TB-1 — TEST BORING
- LEVEL ELEVATION DATUM POINT
- 3 — REVISION NUMBER
- A / 1 — COLUMN LINE REFERENCE
- A — INDICATES WINDOW TYPE
- C — KEYNOTE
- ROOM / 000 — ROOM NAME, ROOM NUMBER
- A000 — DOOR NUMBER
- X — PARTITION TYPE

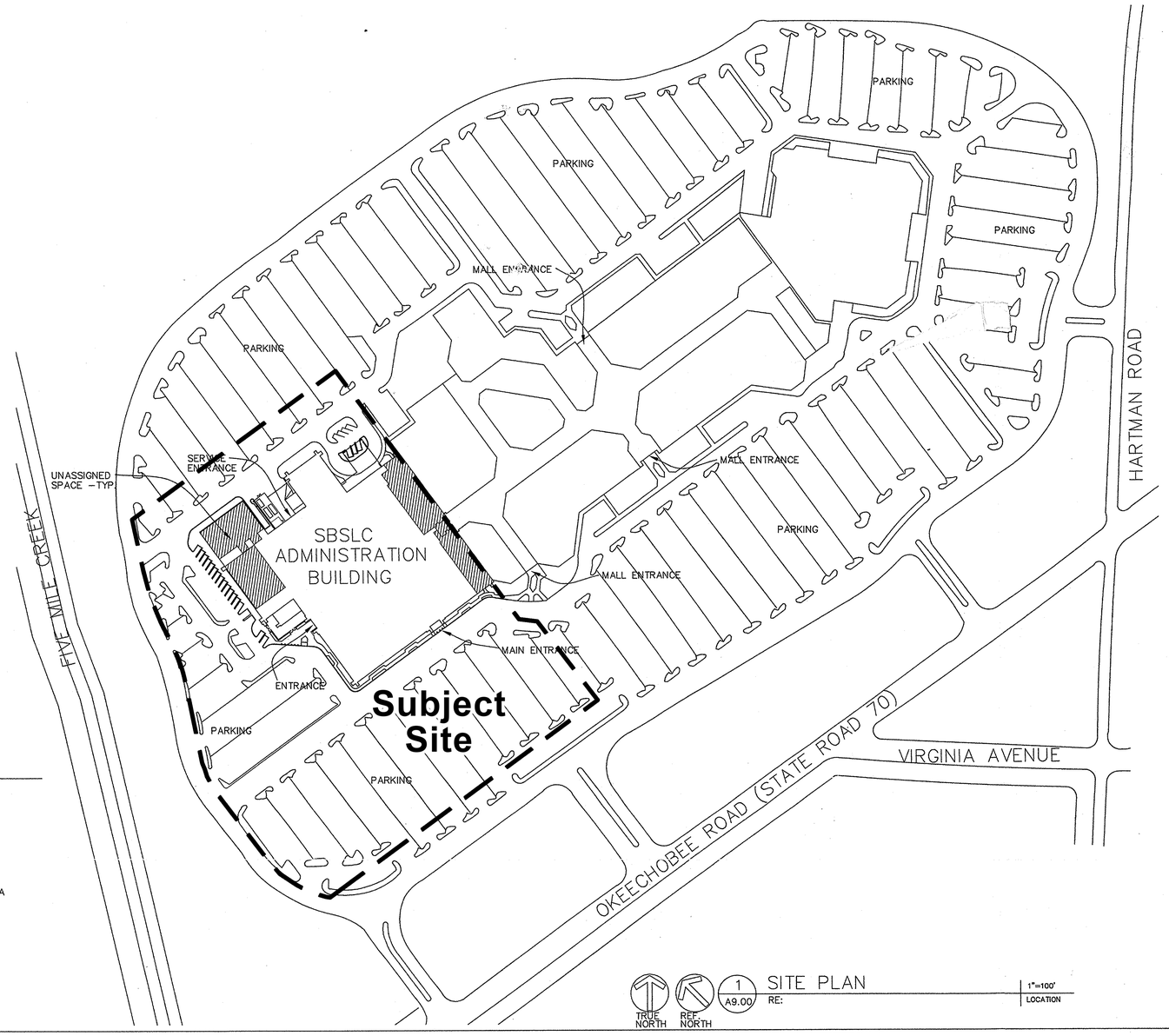
SYMBOLS

- EARTH
- GRANULAR FILL
- INSULATING CONCRETE
- CONCRETE
- BRICK/PAVER
- CONCRETE MASONRY UNITS
- STONE
- PLYWOOD
- FINISH WOOD
- ROUGH WOOD
- BLOCKING/SHIM
- METAL
- STUCCO, PLASTER, SAND, MORTAR, OR GROUT
- GYPSUM BOARD
- BATT INSULATION
- RIGID INSULATION
- CERAMIC TILE
- GLASS
- VENEER
- METAL
- METAL LATH

MATERIAL SYMBOLS | NTS | DATUM-1

205 / 206 / 207 / 204 / 203 — REFERENCE AREA, SHEET NUMBER

KEY PLAN



TRUE NORTH / REF. NORTH — 1 / A9.00 RE: — SITE PLAN — 1"=100' LOCATION

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FL·A
FLORIDA ARCHITECTS, INC
8517 South Park Circle
Suite 150
Orlando, FL 32819
P 407/370-5555
F 407/370-5550
License No. AA0002730

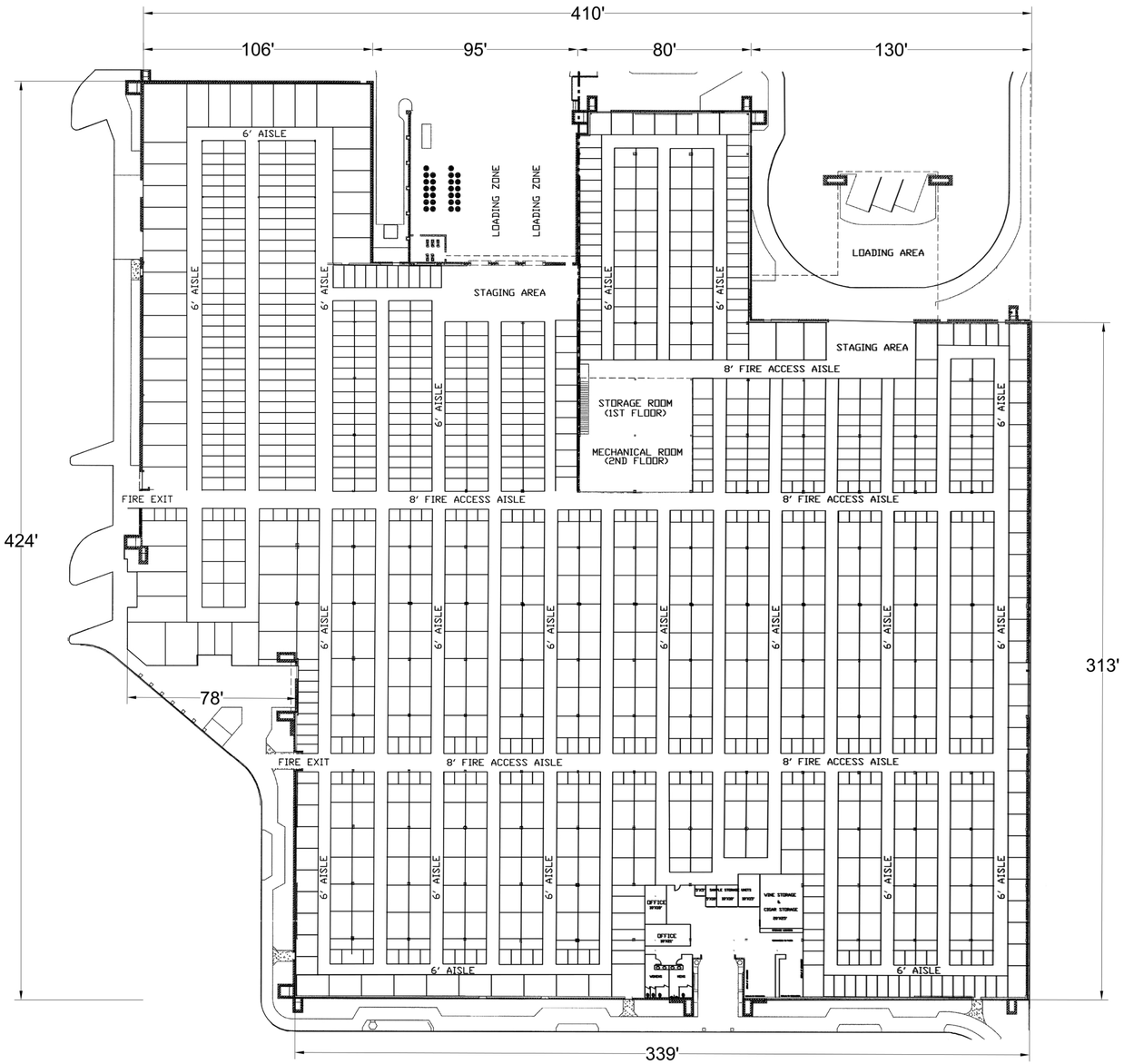
Project Number: 4033
Date Issued: 12-19-02
Drawn By: CC/MA
Revisions:

SCHOOL BOARD OF ST. LUCIE COUNTY
ADMINISTRATION BUILDING
FORT PIERCE, FLORIDA

DATUM/
SITE PLAN

100% CONSTRUCTION DOCUMENTS

Sheet Number
A1.01



Self-Storage Unit Breakdown

Building Gross Area= +/- 141,894 SF

137,612 SF of finished floor and under-air facility

4,282 SF of covered loading and porte-cochere areas

Proposed Storage Units = ± 1,290 Units

Number of units is based on the industry standard of 30% hallways and other non-leasable area, and 70% storage units (80 Sq. Ft. typ)

(137,612 Sq. ft. x 70% = 88,361.70 / 80 sf)

Scale: 1" = 30'

0' 15' 30' 60' 90'

HJA DESIGN STUDIO
LANDSCAPE ARCHITECTURE
50 E. Ocean Blvd., Suite 101
Stuart, Florida 34994
T 772.678.7200
F 772.678.7201
www.hjadesignstudio.com
LA 0000905

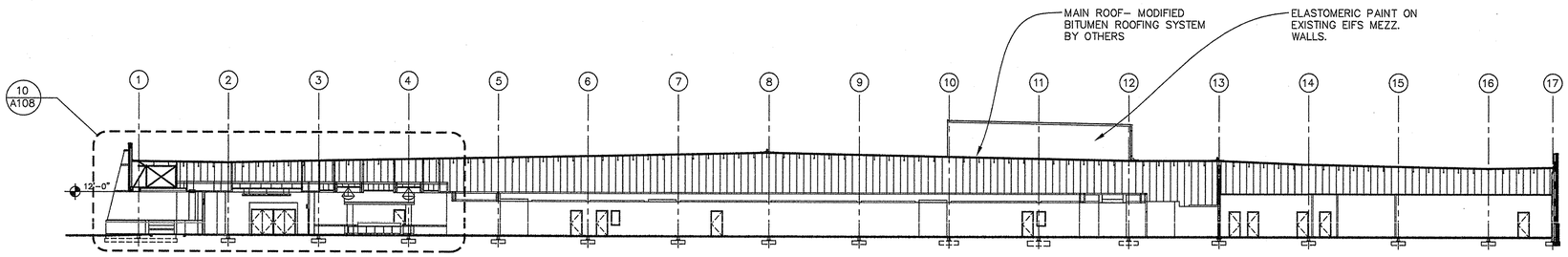
Orange Blossom Self Storage

City of Ft. Pierce Florida

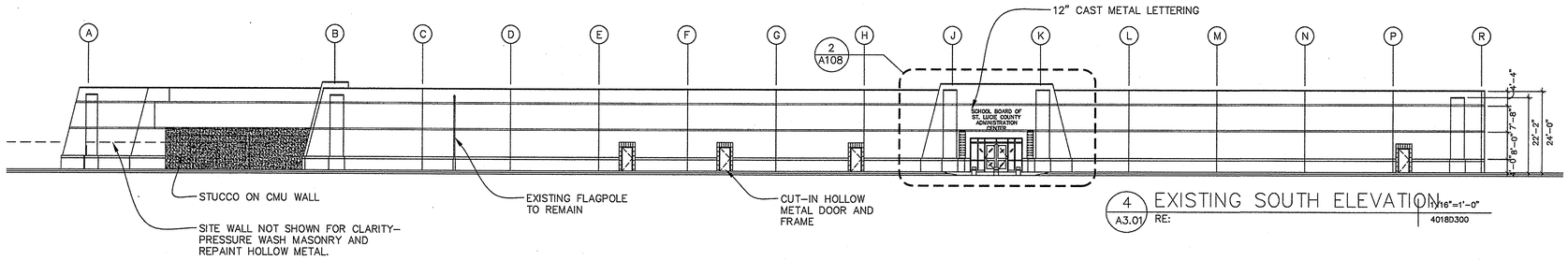
Conceptual Building Footprint

Copyright
The following drawings are instruments of service to the Landscape Architect. They are not products of design. All ideas, designs, arrangements, and plans indicated or represented by this drawing are owned by and the property of the designer, and were created, evolved, and developed for use on and in connection with the specified project. None of such ideas, designs, arrangements, or plans shall be used by or disclosed to any person, firm, or corporation for any purpose whatsoever without the written permission of the designer.

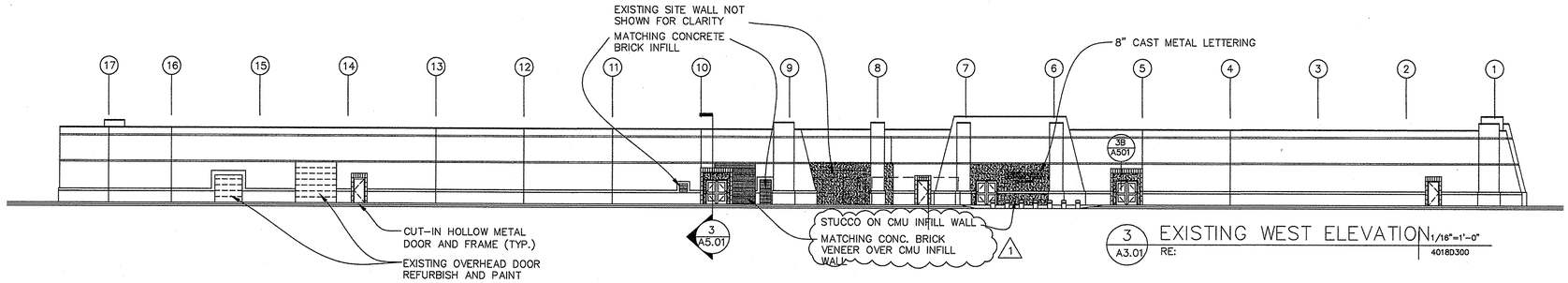
Job No. 2020-21
Drawn By EB
Checked By MH
Approved By MH
Submittal Dates
Revision Dates 6/22/21



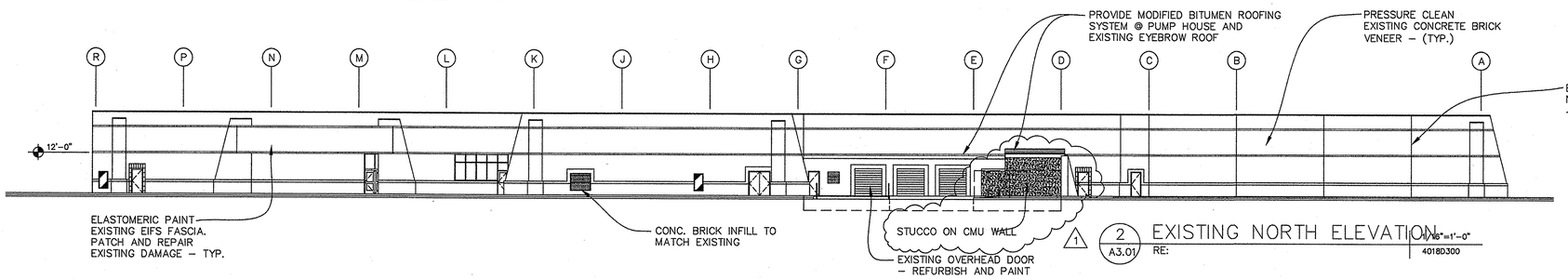
5 A3.01 BUILDING SECTION 1/16"=1'–0"
RE: 4018D302



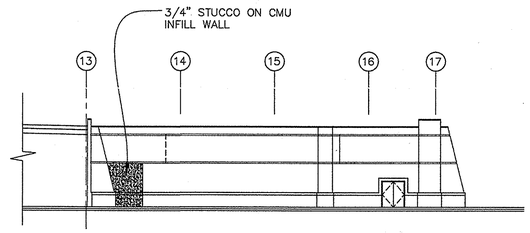
4 A3.01 EXISTING SOUTH ELEVATION 1/16"=1'–0"
RE: 4018D300



3 A3.01 EXISTING WEST ELEVATION 1/16"=1'–0"
RE: 4018D300



2 A3.01 EXISTING NORTH ELEVATION 1/16"=1'–0"
RE: 4018D300



1 A3.01 EXISTING EAST ELEVATION 1/16"=1'–0"
RE: 4018D300

NOTES:

1. PRESSURE WASH ALL EXISTING CONC. BRICK.
2. POINT–UP CRACKED MORTAR JOINTS.
3. REMOVE ALL EXISTING SEALANT AND REPLACE.

GENERAL NOTE:

THIS DRAWING IS BASED ON EXISTING AS–BUILT DRAWINGS THAT HAVE BEEN GENERALLY FIELD VERIFIED.
EXACT CONDITIONS MAY VARY.

1 CHANGE SPLIT FACE CMU BLOCK TO STUCCO ON CMU

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Project Number: 4033
Date Issued: 12–19–02
Drawn By: CC/MA
Revisions: 1 4/5/02

SCHOOL BOARD OF ST. LUCIE COUNTY
ADMINISTRATION BUILDING
FORT PIERCE, FLORIDA

100% CONSTRUCTION DOCUMENTS

BUILDING ELEVATIONS
BUILDING SECTION

Sheet Number
A3.01

Table 1 - Trip Generation - Daily

Land Use	ITE Code	Intensity	Units	Trip Generation Rate	Directional Split		Gross Trips		
					In	Out	In	Out	Total
Proposed Use									
Mini-Warehouse/SS	151	137,612	SF/1000	T=1.51(X)	50%	50%	104	104	208
Existing Use									
General Office	710	137,612	SF/1000	T=9.74(X)	50%	50%	670	670	1,340
Net Change							**(566)**	**(566)**	**(1,132)**

Source: ITE Trip Generator, 10th Edition

Table 2 - Trip Generation - AM Peak Hour

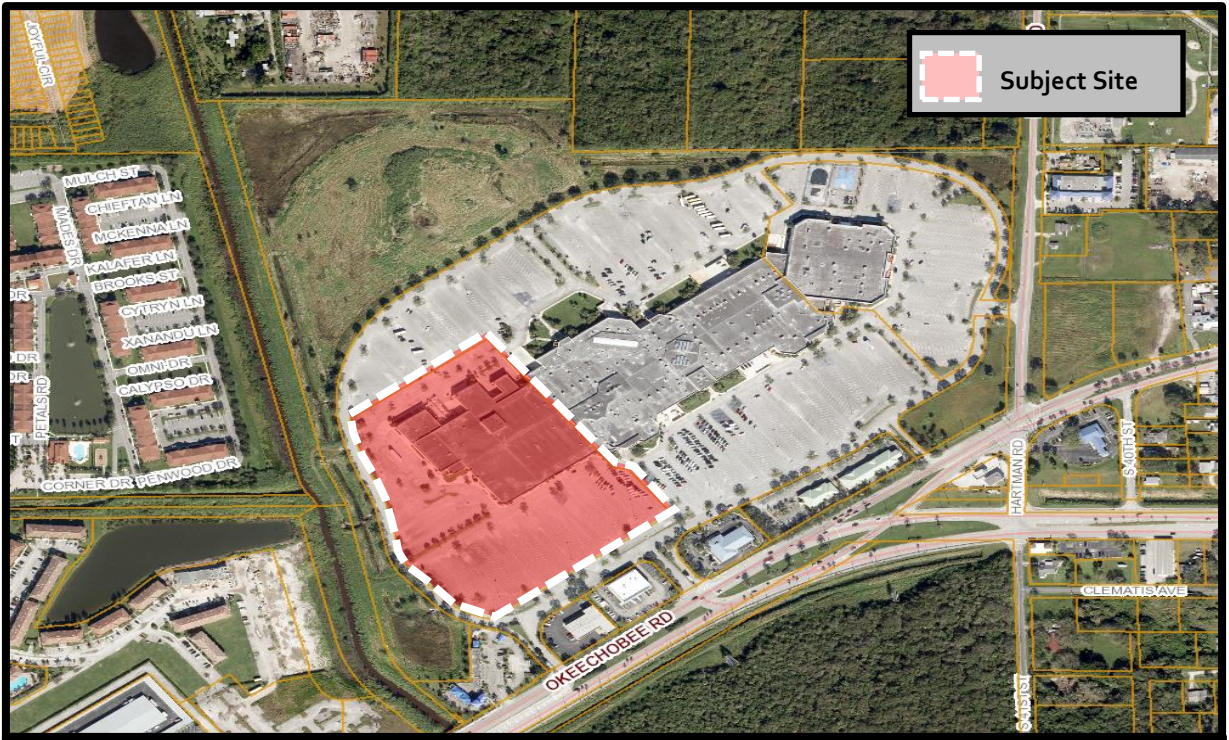
Land Use	ITE Code	Intensity	Units	Trip Generation Rate	Directional Split		Gross Trips		
					In	Out	In	Out	Total
Proposed Use									
Mini-Warehouse/SS	151	137,612	SF/1000	T=0.10(X)	60%	40%	8	6	14
Existing Use									
General Office	710	137,612	SF/1000	T=1.16(X)	86%	14%	138	22	160
Net Change						**3**	**(130)**	**(16)**	**(146)**

Source: ITE Trip Generator, 10th Edition

Table 3 - Trip Generation - PM Peak Hour

Land Use	ITE Code	Intensity	Units	Trip Generation Rate	Directional Split		Gross Trips		
					In	Out	In	Out	Total
Proposed Use									
Mini-Warehouse/SS	151	137,612	SF/1000	T=0.17(X)	47%	53%	11	12	23
Existing Use									
General Office	710	137,612	SF/1000	T=1.15(X)	16%	84%	25	133	158
Net Change							**(14)**	**(121)**	**(135)**

Source: ITE Trip Generator, 10th Edition



THE SUNRISE CITY FORT PIERCE Florida

Conditional Use
4204 Okeechobee Road
Aerial Map

N
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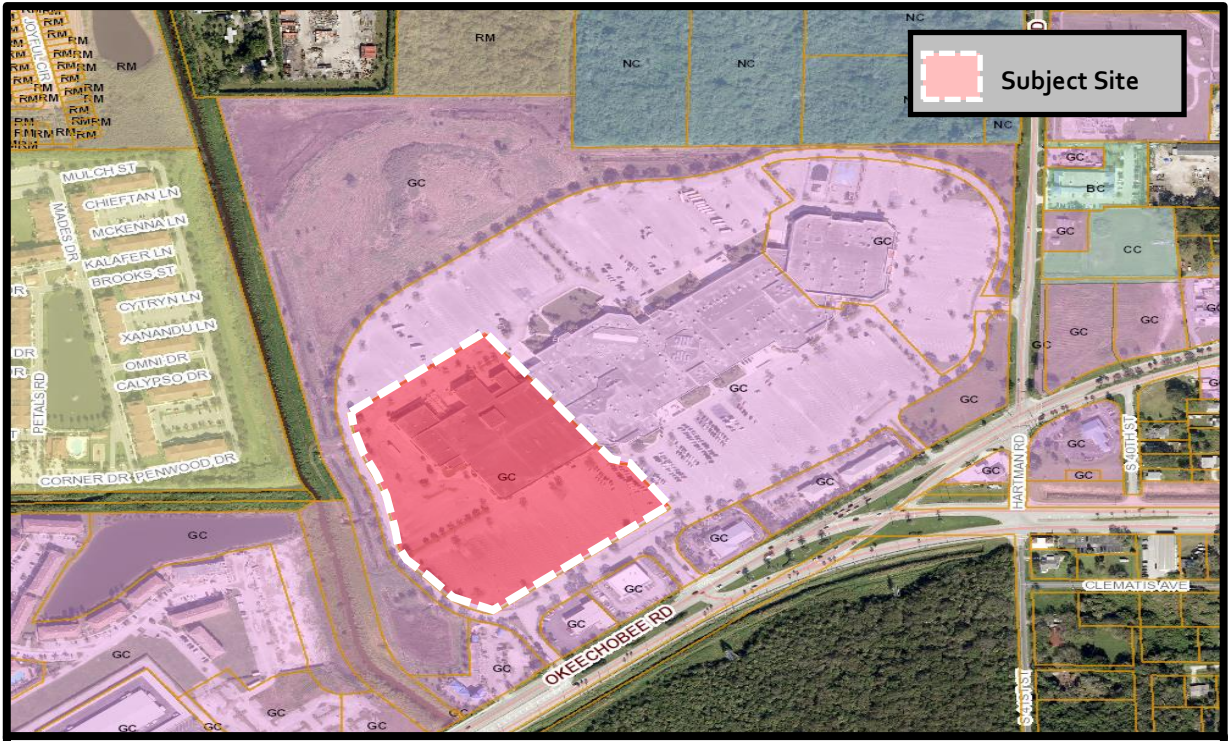

THE SUNRISE CITY
FORT PIERCE
Florida

Conditional Use
4204 Okeechobee Road
Future Land Use Map

N
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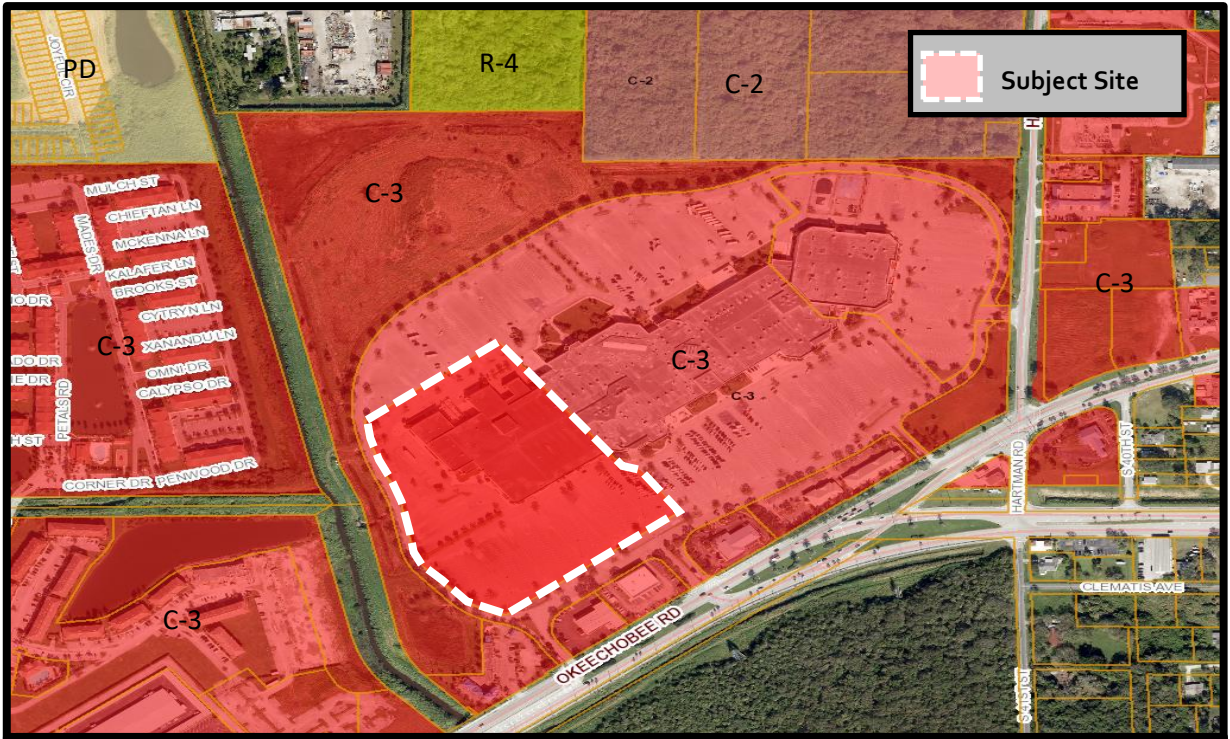


THE SUNRISE CITY
FORT PIERCE
Florida

Conditional Use
4204 Okeechobee Road
Zoning Map

N
W E
S

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

January 20, 2020

Erika Beitler Jr
50 East Ocean Blvd, Suite 101
Stuart, FL 34994

Subject: **Conditional Use Self Storage – Orange Blossom Business Center**
Technical Review Project # 20-04000026

Fort Pierce Planning:

1. It is staffs understanding that the self-storage use will be 100% contained inside the existing building and that there will be no exterior improvements to the building except for a sign.
2. Provide a detailed project narrative that explains the project and what it entails.
3. Are there any landscaping improvements proposed for the site?
4. How many storage units will be contained in the building?
5. Provide a floor plan for how the proposed used will be laid out in the building.
6. What are the anticipated daily trips to and from the site?

Please provide a written response to all TRC comments and provide an electronic submittal of materials (complete submittal packet). The presented review is specific to the proposed facility. Please contact me should you have any questions regarding the project at (772) 467-3742 or by e-mail: bcreagan@cityoffortpierce.com.

Sincerely,

Brandon Creagan, MCRP, LEED Green Associate

Planner

THE SUNRISE CITY
FORT PIERCE
Florida
ENGINEERING
DEPARTMENT

TO : Brandon Creagan, Planner

FROM : John R. Andrews, P.E., City Engineer

RE : Orange Blossom Business Center CU – 4202 Okeechobee Road
TRC No. 20-04000026

DATE : January 14, 2021

This is to advise you that we have completed the review of the following documents as received by this office on January 8, 2021:

- [x] Conditional Use Application
- [ ] Test Reports & Related Documents
- [ ] Record Drawings
- [ ] Clearances from all applicable Local, State and Federal Agencies
- [ ] P/D Drawings
- [ ] Certificate of Completion
- [ ] Permits from applicable Local, State & Federal Agencies

Based on our reviews and appropriate site final inspection, we

- [x] Recommend
- [ ] Do Not Recommend

- [x] Approval of Conditional Use
- [ ] Building Permit
- [ ] C/O

Developer, Owner, Engineer, Contractor and other members of the Development Team must be aware, the above recommendation is based only on the construction requirements of the engineering plans and other engineering documentation approved by this department. The Development Team shall be responsible for the compliance with other City department requirements and all approved documents, as well as Local, State and Federal regulations. The development requirements for this project may necessitate additional construction requirements that are not subject to this department's review for approval.

- [x] No comments

JRA/tst/tst

Q:\ENGINEERING\Site Development Projects\O\Orange Blossom Mall\CU\Submittal No. 1 - 011221\CU Approval - 011421.docx

Technical Review Committee meeting

January 21st, 2021

Case # 20-04000026

Planner: Brandon Creagan

Rezoning and Future Land Use

4204 Okeechobee Rd., Ft. Pierce (Orange Blossom Business Center)

Comments:

Please ensure the parking lot and building exterior are illuminated to or beyond the standards set forth by city code.

Officer Damian Spotts

Crime Prevention Practitioner

Fort Pierce Police Department.

Fort Pierce Utilities Authority
Water/Wastewater Engineering
1701 South 37th Street
Fort Pierce, FL 34947
772.466.1600 x3473

Technical Review Committee Meeting

January 21, 2021

TECHNICAL REVIEW PROJECT # 20-04000026

Conditional Use – Orange Blossom Business Center – 4204 Okeechobee Road

Comments

FPUA W/WW Engineering: Approved as noted, is no objection to the application.
For additional information, please contact:

John Biggs
Environmental Engineer
W/WW Engineering Department
1701 S. 37th Street,
Fort Pierce, FL 34947
jbiggs@fpua.com
Office: 772.466.1600 Ext. 3474

FPUA Electric & Gas Engineering: Approved.
If the owner/occupant should have any questions, please contact Sal Scimeca.

Sal Scimeca
Engineering Technician II
Electric and Gas Engineering
1701 S. 37th Street, Fort Pierce, FL 34947
sscimeca@fpua.com
Office: (772)466-1600 Ext. 6957

ST. LUCIE COUNTY FIRE DISTRICT
Community Risk Reduction Division
Office of the Fire Marshal

Telephone: **(772) 621-3322**
Fax: **(772) 621-3604**

BUREAU OF FIRE PREVENTION

SITE PLAN REVIEW

TO: Site Plan Applicant

SITE PLAN: Orange Blossom Business Center (4204 Okeechobee Road)

REVIEW DATE: 1/11/2021

PLANNER: BRANDON CREAGAN

REVIEWED BY: Captain Wayne Boyer

Site Plan Approved: _____

Site Plan Approved with conditions: ___X____

Site Plan Approval withheld pending written acknowledgement of conditions: _____

Site Plan Rejected: _____

The Following Revisions Are Necessary:

1. **Please submit a completed application for Development/Site Plan Review (St. Lucie County Fire District Development & Site Plan Review Application). This form is available on-line at https://www.slcfd.com**
2. **Fire District review fees are due at the time of submittal. An abbreviated fee schedule is included on the application form.**
3. **Please send the Fire District electronic plans for the site and buildings.**
4. **The Fire District reserves the right for future comments at the site plan & building construction phase.**

ST. LUCIE COUNTY FIRE DISTRICT
Community Risk Reduction Division
Office of the Fire Marshal

Telephone: **(772) 621-3322**
Fax: **(772) 621-3604**

5. **Be advised, although there is no new construction planned for this project it will be subject to a New Business Inspection and possibly a Change of Occupancy Review. The project will have to meet all of the Occupancy requirements at that time to be in compliance with the currently adopted version of the Florida Fire Prevention Codes.**

Planning Board **7. d.**

Meeting Date: 07/14/2021

Information

REQUESTED ACTION

Conditional Use - Nole Dwelling Rental - 1501 Thumb Point Drive

LOCATION

1501 Thumb Point Drive
Fort Pierce, FL 34949

Parcel ID: 2401-605-0049-000-9

RESPONSIBLE STAFF

Rebeca A. Guerra, AICP, LEED-AP, Assistant Planning Director

RECOMMENDATION

The proposed use presents the provision for short-term lodging accommodations to the public that is generally consistent with the City's Land Development Code and Comprehensive Plan with appropriate restrictions. Therefore, Staff recommends APPROVAL, subject to the following five (5) Conditions of Approval:

1. The property manager for the vacation rental shall be available at all times to resolve complaints or violations of city code. Said manager shall reside in St. Lucie County and shall be registered with the City of Fort Pierce.

2. Guide booklets (available from Code Enforcement) shall be provided to renters regarding local rules and public service resources, to minimize conflicts.

3. The applicant shall file for and obtain St. Lucie County and City of Fort Pierce Business Tax Licenses within thirty (30) days of issuance of a license from the Florida Department of Business & Professional Regulation.

4. There shall be a limitation of no more than (2) vehicles for the rental unit.

5. The City of Fort Pierce Business Tax License number shall be included on all advertising.

Attachments

Staff Report
Application & Supporting Documents
Aerial Map
FLU Map
Zoning Map

TRC Comments

Form Review

Form Started By: Rebeca Guerra Started On: 07/07/2021 01:41 PM
Final Approval Date: 07/07/2021

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT
Florida

TO:	City of Fort Pierce Planning Board
FROM:	Rebeca A. Guerra, AICP, LEED-AP, Assistant Planning Director
RE:	**Conditional Use Approval with No New Construction– Nole Dwelling Rental – 1501 Thumb Point Drive**
MEETING DATE:	July 14, 2021

STAFF REPORT

Owner: James Nole
1147 Hernando Street
Fort Pierce, FL 34949

Applicant's Request: Approval of a Conditional Use to operate a Dwelling Rental, offering lodging for less than six (6) months. The minimum rental period is less than 30 days.

Location(s): 1501 Thumb Point Drive

Parcel ID: 2401-605-0049-000-9

Future Land Use: Low Density Residential (RL)

Current Zoning: Single-Family Intermediate Density Zone (R-2)

Surrounding FLU:

North	East	South	West
RL	RL	RL	RL

Surrounding Zoning:

North	East	South	West
R-2	R-2	R-2	R-1

Utilities: FPUA

Staff Analysis:

Request

In accordance with Sections 125-187 and 125-236 of the City Code, the applicant is requesting review and approval of a Conditional Use to operate a Dwelling Rental located at 1501 Thumb Point Drive. The proposed Conditional Use will offer lodging of less than six (6) months with a minimum stay of less than 30 days.

The subject building is a single-family residence. According to the St. Lucie County Property Appraiser, the finished floor area is 1,520 square feet and the gross sketched area is 4,119 square feet with two (2) bedrooms and two and one half (2.5) baths.





The subject site is surrounded by single family residences to the north, south, east, and west. The subject site has a Future Land Use designation of Low Density Residential (RL) with a compatible zoning designation of Single-Family Intermediate density zone (R-2). Per City Code Section 125-187. – Allowed Uses; Dwelling Rentals are classified as a Conditional Use in the R-2 zoning district.

Dwelling Rentals

Pursuant to City Code Section 125-3. – Definitions - Generally, the rental of any dwelling unit for less than six (6) months, is classified as a "Dwelling Rental (dwelling unit)," and defined as follows: "One or more rooms connected together in a building, constituting a separate, independent housekeeping establishment, other than a motel/hotel, for purposes of rental on a daily, weekly or longer basis."

The State of Florida provides further classification of a dwelling that is rented for periods of less than one (1) month. Pursuant to Florida State Statute 509.242, declaring the use a "Vacation Rental," defines such use as any unit that is also a transient public lodging establishment but that is not a timeshare project, which is rented to guests more than three (3) times in a calendar year for periods of less than 31 days or one (1) calendar month, whichever is less, or which is advertised or held out to the public as a place regularly rented to guests. A dwelling rental, as locally defined, is also a "Vacation Rental" if the duration of stays are less than 31 days.

Table 1 presents general characteristics to clarify Dwelling Rentals, and the transitioning threshold for Vacation Rentals.

Table 1 – Dwelling and Vacation Rental Definitions

	Dwelling Rental	**Vacation Rental**
Length of Stay	Less than six (6) months	30 days or less
Lodging Type(s)	Non-Transient (more than 30 days)	Transient Lodging
State License Requirement	If rented 30 days or less (Vacation Rental)	Division of Hotels and Restaurants – Vacation Rental
Public lodging establishment (ADA & Misc. Regulations)	If rented 30 days or less (Vacation Rental)	Public lodging establishment

Future Land Use and Zoning

The Low Density Residential (RL) designation is intended for parcels that are best suited for lower density residential uses. The predominant development typology will consist of single family detached housing but can also contain duplexes and multifamily residences. Limited commercial uses intended to serve the neighborhood shall be allowed. Compatible public, quasi-public, and special uses including parks, churches, non-profit clubs, schools, and daycare facilities shall also be allowed. This land use category ranges in density from one to six and one-half dwelling units per acre.

The R-2 zoning district is compatible with the RL Future Land Use designation. This district is designed mainly for areas of single-family dwellings with an average net density of less than five (5) units per acre for conventional developments. In addition to housing, various public facilities and other nonresidential uses are permitted under the conditions and safeguards referred to in this section. Areas in this classification should have public water and sewer service.

Parking

Pursuant to City Code Section 125- (d)b, motels, hotels, and resort hotels shall provide 1.6 spaces for each unit 500 square feet or larger.

Conditional Use

As stated in City Code Section 125-235, the purpose of the Conditional Use process is to allow, when desirable, uses that would not be appropriate generally or without restriction throughout a particular zoning district, but which, if controlled as to number, area, location, or relation to the neighborhood, would not adversely affect the public health, safety, comfort, good order, appearance, convenience, and the general welfare.

Technical Review Committee
All affected departments have reviewed the proposed Conditional Use with regards to the requirements of the City Code and had no objections to the proposed Conditional Use request.

Staff Recommendation
The proposed request presents the provision for short-term lodging accommodations to the public that is generally consistent with the City's Land Development Code and Comprehensive Plan with appropriate restrictions. Therefore, staff recommends **APPROVAL,** subject to the following five (5) Conditions of Approval:

1. The property manager for the vacation rental shall be available at all times to resolve complaints or violations of city code. Said manager shall reside in St. Lucie County and shall be registered with the City of Fort Pierce.

2. Guide booklets (available from Code Enforcement) shall be provided to renters regarding local rules and public service resources, to minimize conflicts.

3. The applicant shall file for and obtain St. Lucie County and City of Fort Pierce Business Tax Licenses within thirty (30) days of issuance of a license from the Florida Department of Business & Professional Regulation.

4. There shall be a limitation of no more than two (2) vehicles per unit.

5. The City of Fort Pierce Business Tax License number shall be included on all advertising.

5-14-2021

Project Narrative:

We would like to offer the use of our home located at 1501 Thumb Point Dr. to other families wishing to have a great island experience. This lovely 2-bedroom home is well suited to be a short-term rental. I live approximately 1 mile away and would be available anytime if needed. Parties and events would NOT be tolerated and there is a detailed list of rules.

When this home was purchased, I had plans of moving in with my girlfriend and her young children. Plans have changed and we have decided that our Hernando St. home is best suited for us at this time. However, this pool home has been a great meeting place for our family and friends and the kids love telling almost everyone they have a pink house with a pool! We have had many good times at this home and have enjoyed meeting new neighbors. Additionally, it provides a safe place for our out-of-state family members to stay. It would be great to see more families have a great place to stay when visiting friends and family who live in our area.

Maximum occupancy: 6. Two sets of bunk beds in guest room, One king size bed in master

Maximum vehicles: 2.

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT
Florida

Conditional Use – No New Construction

Property address or Location 1501 Thumb Point Dr. Fort Pierce FL, 34949
Parcel ID #(s) 2401-605-0049-000-9
Project description Short Term Rental

James Nole
Property Owner(s)
1147 Hernando St.
Street Address
Fort Pierce FL 34949
City State Zip
772-971-6363
Phone Number
mike.signmeup@gmail.com
Email Address

Applicant/Representative, Title, Company
Street Address
City State Zip
Phone Number
Email Address

Property Owner(s) Acknowledgements: *- This application will not be considered complete without the signature of all property owners of record, which shall serve as an acknowledgement of the submission of this application. The property owner's signature below shall also authorize the Applicant (if other than the property owner) and/or Representative to act in his/her behalf for the purposes of seeking approval for the application described herein.*

Property Owner(s) Signature(s)

STATE OF FLORIDA -- COUNTY
The foregoing instrument was acknowledged before me this 7 day of May, 2021, by James Nole who is personally known to me or has produced _____ as identification.

Jade Lee Krest
Signature of Notary (seal)

JADE LEE KREST
Notary Public - State of Florida
Commission # GG 261884
My Comm. Expires Sep 25, 2022
Bonded through National Notary Assn.

INTAKE MEETINGS ARE REQUIRED FOR ALL SUBMITTALS. CALL (772) 467-3729

TO BE COMPLETED BY STAFF

Zoning	Future Land Use	Total Acres	Historic District	Historic Designation
				Contributing Individual Non-Contributing None

Pre-Application Meeting Date_____ Fees_____ Control #_____ B. Permit #_____
Intake Planner_____
Planner Assigned_____
Approved By_____ Date _____
Comments_____

Intake Date Stamp

☑ CONDITIONAL USE: NO NEW CONSTRUCTION

Submit one original, seven (7) hard copies and one (1) CD of the following for initial submittal, subsequent submittals will be required:

- ☑ *If no site improvements are required:*
  - ☑ As-built survey
  - ☐ Floor plan of existing building(s)
- ☐ *If parking and drainage improvements are required:*
  - ☐ As-built survey;
  - ☐ Site plan, to scale, including existing improvements and proposed parking, driveways, landscaping & storm drainage;
  - ☐ Lighting plan
- ☑ Complete, notarized application

Application Type:

- ☑ Conditional Use: No new construction with no site improvements
- ☐ Conditional Use: No new construction with parking and drainage improvements

Site Information:

Building Size 1520 S.F. Parking Spaces: 4

Surrounding Uses: *(i.e. single family home, retail, industrial, etc.)*

North	South	East	West
Single Family	→	→	→

The application for conditional use with the application for site plan review, when not exempt in accordance with the requirements of section 22-75, shall be reviewed as a unit in accordance with the requirements of section 22-58 except that:

(1) The city commission shall hold a public hearing in accordance with the provisions of section 22-143 prior to acting on the application for conditional use.

(2) In the event the city planning board disapproved the application for conditional use or in case of a protest against said application signed by twenty (20) per cent of the owners within five hundred (500) feet of the area included in said application, such application shall not be approved except by a four-fifths vote by the city commission.

(3) In permitting a conditional use or the modification of an existing conditional use, the city commission may impose, in addition to those standards and requirements expressly specified in this chapter, any condition which it finds to be necessary to protect the best interest of the surrounding property of the city.

Application Outlook



Michelle Franklin, CFA – Saint Lucie County Property Appraiser – All rights reserved.

Property Identification

Site Address: 1501 THUMB POINT DR
Sec/Town/Range: 01/35S/40E
Parcel ID: 2401-605-0049-000-9
Jurisdiction: Fort Pierce

Use Type: 0100
Account #: 15230
Map ID: 24/01S
Zoning: SF Interme

Ownership

James Nole
1147 Hernando ST Apt A
Fort Pierce, FL 34949

Legal Description

THUMB POINT BLK 2 LOT 9



Current Values

Just/Market Value:	$249,900
Assessed Value:	$249,900
Exemptions:	$0
Taxable Value:	$249,900

Property taxes are subject to change upon change of ownership.

- **Past taxes are not a reliable projection of future taxes.**
- **The sale of a property will prompt the removal of all exemptions, assessment caps, and special classifications.**

Taxes for this parcel: SLC Tax Collector's Office
Download TRIM for this parcel: Download PDF

Total Areas

Finished/Under Air (SF):	1,520
Gross Sketched Area (SF):	4,119
Land Size (acres):	0.28
Land Size (SF):	12,174

Building Design Wind Speed

Occupancy Category	I	II	III & IV
Speed	140	160	170

Sources/links:

Sale History

Date	Book/Page	Sale Code	Deed	Grantor	Price
Mar 23, 2021	4578 / 2800	0001	WD	Onorato Living Trust	$415,000
Mar 23, 2021	4578 / 2800	0001	WD	Onorato (LF EST) Larry	$415,000
Jan 30, 2008	2937 / 1989	XX01	WD	Onorato Larry	$100
Mar 15, 2005	2191 / 0969	XX00	WD	Varghese George	$295,000
Jul 29, 2004	2033 / 1787	XX00	WD	Rossi Robert W	$298,000
Jun 30, 1999	1233 / 1955	XX00	WD	Catherine M Meo	$98,000
Jul 31, 1997	1093 / 2411	XX02	DE	Catherine M Meo	$100
Oct 30, 1996	1046 / 1376	XX02	DE	Catherine McPartland	$100

Building Information (1 of 1)

Finished Area: 1,520 SF

Gross Sketched Area: 4,119 SF

Exterior Data

View:

Roof Cover: Metal

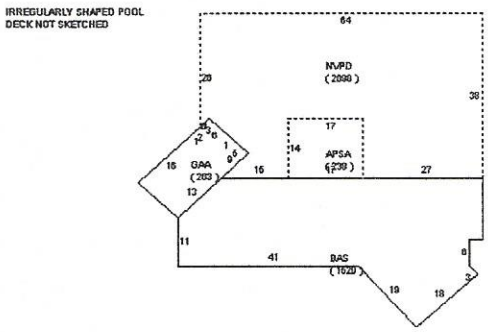
Roof Structure: Gable

Grade: C	Effective Year: 1957	Primary Wall: CB Stucco
Story Height: 1 Story	No. Units: 1	Secondary Wall:

Interior Data

Bedrooms: 2	Electric: MAXIMUM	Primary Int Wall:
Full Baths: 2	Heat Type: FrcdHotAir	Avg Hgt/Floor: 0
Half Baths: 1	Heat Fuel: ELEC	Primary Floors: Carpet
A/C %: 100%	Heated %: 100%	Sprinkled %: 0%





Sketch Area Legend

Sub Area	Description	Area	Fin. Area	Perimeter
APSA	Aluminium Porch (Screen) Average	238	0	62
BAS	BASE AREA	1520	1520	188
GAA	Garage Attached Average	263	0	68
NVPD	Pool Deck for Sketch Only (Valued in SFYI)	2098	0	239

Special Features and Yard Items

Type	Qty	Units	Year Blt
Driv-Concret	1	1440	1957
POOL DK-AVG	1	1856	1980
RES POOL AVG	1	242	1980
VINYLFENCE6'	1	180	2005
UTILITY AVG	1	140	2008

Current Year Values

Current Values Breakdown

Building:	$96,400
Land:	$153,500
Just/Market:	$249,900
Ag Credit:	$0
Save Our Homes or 10% Cap:	$0
Assessed:	$249,900
Exemption(s):	$0
Taxable:	$249,900

Current Year Exemption Value Breakdown

Current Year Special Assessment Breakdown

Start Year	AssessCode	Units	Description	Amount
1999	0041	1	Fort Pierce Stormwater Charge	$69.00

This does not necessarily represent the total Special Assessements that could be charged against this property. The total amount charged for special assessments is reflected on the most current tax statement and information is available with the SLC Tax Collector's Office.

Historical Values

Year	Just/Market	Assessed	Exemptions	Taxable
2020	$249,900	$249,900	$0	$249,900
2019	$252,900	$252,900	$0	$252,900
2018	$236,300	$233,230	$0	$233,230

Permits

Number	Issue Date	Description	Amount	Fee
F90000034A	Jan 1, 1990	Alterations/Remodeling	$41,000	$41,000
DV20066	Feb 22, 2006	Driveway	$1,200	$100
RF20051332	Mar 25, 2005	Roof	$7,500	$200
0800001099	Jul 29, 2008	Shed	$2,000	$250

Notice: This does not necessarily represent all the permits for this property.

Click the following link to check for additional permit data in Fort Pierce

All information is believed to be correct at this time, but is subject to change and is provided without any warranty.
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1501 THUMB POINT DRIVE, FORT PIERCE, FL. 34949

SCALE:1"=30'



AERIAL PHOTOGRAPH
(NOT-TO-SCALE)

CURVE TABLE				CHORD LENGTH	CHORD BEARING
	LENGTH	RADIUS	DELTA		
C1	125.00'	268.10'	26°42'50"	123.87'	N14°13'29"E
C2	152.63'	298.10'	29°20'06"	150.96'	N42°14'57"E

POINT OF CURVATURE FOUND NAIL AND DISC
C2 (P)
30.0'
FOUND NAIL AND DISC
25.0' BUILDING SETBACK LINE(PLAT)
FOUND 5/8" IRON ROD
BASIS OF BEARINGS
FENCE 2.5' S
S62° 12' 38"E 121.36'
LOT 10 BLOCK 2
SET 1/2" IRON ROD AND CAP "NEXGEN 8111"
6' 6'
BAYSHORE DRIVE (FIELD)
THUMB POINT DRIVE (FIELD)
ASPHALT ROADWAY
80' RIGHT-OF-WAY
WM
OHL
SEVER
C1
49.0'
12.1'
36.9'
12.0'
22.7'
11.4'
12.1'
8.5'
12.7'
AC
11.2'
55.3'
SHED
14.5'
13.8'
FENCE 5.8' W 2.6' N
25'
DRIVEWAY
34.9'
LOT 9 BLOCK 2 RESIDENCE # 1501
COVERED SCREENED
POOL
59.3'
6.5'
1.7'
20.2'
33.6'
14.7'
3.7'
6.2'
3.4'
13.4'
21.2'
10.6'
AC
CLEAN OUT
POOL EQUIPMENT
6'
6'
68.07'
S20° 34' 56"W
LOT 15 BLOCK 2
30.0'
SET 1/2" IRON ROD AND CAP "NEXGEN 8111"
116.80'
N89° 07' 54"W
(RADIAL)
FENCE 6.2' N
SET 1/2" IRON ROD AND CAP "NEXGEN 8111"
FENCE 4.3' W 0.7' S
25'
LOT 8 BLOCK 2
6' 6'
12.0' U.E. (PLAT)

- ALL ANGLES AND DISTANCES SHOWN HEREON ARE BOTH RECORD AND MEASURED UNLESS OTHERWISE NOTED

SHEET 1 OF 2 SHEETS OR SURVEY SHEET NOT FOR LEGAL DESCRIPTION AND OTHER SURVEY RELATED DATA. SURVEY IS NOT COMPLETE WITHOUT ALL SHEETS

The survey map & report or the copies thereof are not valid without the digital signature and seal of a Florida licensed surveyor and mapper

Date of Field Work : 02-24-2021
Drawn By: Oleg
Order #: 122750
Last Revision Date: None
Boundary Survey prepared by: LB8111

NexGen Surveying, LLC
5601 Corporate Way, Suite #103
West Palm Beach, FL 33407
561-508-6272

NEXGEN SURVEYING, LLC.

THIS SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY CLYDE O. MCNEAL PSM 2883 ON 02-26-2021 STATE OF FLORIDA

LEGAL DESCRIPTION OF: **1501 THUMB POINT DR, FORT PIERCE, FLORIDA, 34949**

LOT 9, BLOCK 2, THUMB POINT, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 10, PAGE 79, PUBLIC RECORDS OF ST.LUCIE COUNTY, FLORIDA.

CERTIFIED TO:

LIBERTY TITLE COMPANY OF AMERICA, INC.
ANDREW D. DITTOE AND JENNIFER M. DITTOE
OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY
THE MORTGAGE FIRM, INC. ISAOA/ATIMA

FLOOD ZONE:

12111C0183K
ZONE: AE
ELEV: 5 FT
EFF: 02/19/2020

SURVEY NOTES:

- DRIVEWAY CROSSES THE BOUNDARY LINE ON WESTERLY SIDE OF LOT AS SHOWN.
- FENCES LIE NEAR BOUNDARY LINES AS SHOWN, OWNERSHIP NOT DETERMINED.
- FENCES EXTEND THROUGH UTILITY EASEMENT ALONG EASTERN BOUNDARY LINE AS SHOWN.
- FENCES CROSS THE BOUNDARY LINES ON SOUTHERLY SIDE OF LOT AS SHOWN.

LEGEND

A/C	-AIR CONDITIONER
WM	-WATER METER
AL	- ARC LENGTH
(C)	-CALCULATED
(M)	-MEASURED
P.O.B.	-POINT OF BEGINNING
P.O.C.	-POINT OF COMMENCEMENT
&	-AND
P.B.	-PLAT BOOK
PG	-PAGE
U.E.	-UTILITY EASEMENT
D.E.	-DRAINAGE EASEMENT
P.U.E.	- PUBLIC UTILITY EASEMENT
L.A.E.	-LIMITED ACCESS EASEMENT
L.M.E.	-LAKE MAINTENANCE EASEMENT
O.H.E	-OVERHEAD EASEMENT
R	-RADIUS
(R)	-RECORD
O.R.B.	-OFFICIAL RECORDS BOOK
Sq.Ft.	-SQUARE FEET
Ac.	-ACRES
DB	-DEED BOOK
(D)	-DEED
(P)	-PLAT
EOW	-EDGE OF WATER
TOB	-TOP OF BANK
OHL	-OVERHEAD LINE
C/O	-CLEAN OUT
ELEV	-ELEVATION
FF	-FINISHED FLOOR
LS	-LICENSED SURVEYOR
LB	-LICENSED BUSINESS
PSM	-PROFESSIONAL SURVEYOR & MAPPER
—x—	-FENCE
#	-NUMBER
±	-PLUS OR MINUS
	-ASPHALT
	-CONCRETE
	-PAVER/BRINCK
	-WOOD
	-LIGHT POLE
	-WELL
	-WATER VALVE
	-CENTER LINE
	-CATCH BASIN
	-FIRE HYDRANT
	-UTILITY POLE
	-MANHOLE
	-ELEVATION

SOME ITEMS IN LEGEND MAY NOT APPEAR ON DRAWING.

GENERAL NOTES:

1) THIS SURVEY IS BASED UPON RECORD INFORMATION IN LIEU OF WHERE, EVIDENCE OF THE PUBLIC RECORD HAS BEEN MADE BY THIS OFFICE UNLESS OTHERWISE NOTED.
2) IF THIS LAND HAS BEEN SUBJECT TO A TITLE SEARCH, IT MAY BE SUBJECT TO THE DETERMINATION OF TITLE DEFICIENCIES. NO FUTURE CONSTRUCTION SHALL BE BASED UPON THIS SURVEY WITHOUT FIRST OBTAINING A CURRENT SURVEY. NEXGEN REAL ESTATE SERVICES, LLC ASSUMES NO RESPONSIBILITY FOR ERRORS RESULTING FROM FAILURE TO ADHERE TO THIS
3) WHERE FENCES OR WALLS ARE SHOWN NEAR THE PROPERTY LINES, THEY ARE TO GENERAL CENTERLINE OF FENCE. THIS OFFICE WILL NOT BE RESPONSIBLE FOR DAMAGES
4) [illegible] HAVE BEEN EXAGGERATED TO MORE CLEARLY ILLUSTRATE MEASURED RELATIONSHIPS
5) UNDERGROUND UTILITIES AND/OR FOUNDATIONS WERE NOT LOCATED EXCEPT AS SPECIFICALLY SHOWN. 6) ELEVATIONS ARE BASED UPON NATIONAL GEODETIC
7) UNLESS OTHERWISE NOTED, THE LEGAL DESCRIPTIONS SHOWN ARE FIELD MEASURED AND CORRESPOND TO RECORD INFORMATION
8) [illegible] BY A LICENSED SURVEYOR.

NEXGEN
Real Estate Sevices, LLC
www.NexGenSurveying.com

561.508.6272
Fax: 561.508.6309
LB 8111
5601 Corporate Way | Suite 103
West Palm Beach, FL 33407

U.S. DEPARTMENT OF HOMELAND SECURITY
Federal Emergency Management Agency
National Flood Insurance Program

OMB No. 1660-0008
Expiration Date: November 30, 2022

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1–9.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

SECTION A – PROPERTY INFORMATION

FOR INSURANCE COMPANY USE

A1. Building Owner's Name
ANDREW D. DITTOE AND JENNIFER M. DITTOE

Policy Number:

A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.
1501 THUMB POINT DRIVE

Company NAIC Number:

City: FORT PIERCE | State: Florida | ZIP Code: 34949

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.)
TAX PARCEL NUMBER 2401-605-0049-000-9

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.) RESIDENTIAL

A5. Latitude/Longitude: Lat. 27.46084 Long. -80.29795 Horizontal Datum: ☐ NAD 1927 ☒ NAD 1983

A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

A7. Building Diagram Number 1A

A8. For a building with a crawlspace or enclosure(s):

a) Square footage of crawlspace or enclosure(s) N/A sq ft

b) Number of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade N/A

c) Total net area of flood openings in A8.b N/A sq in

d) Engineered flood openings? ☐ Yes ☒ No

A9. For a building with an attached garage:

a) Square footage of attached garage 263 sq ft

b) Number of permanent flood openings in the attached garage within 1.0 foot above adjacent grade N/A

c) Total net area of flood openings in A9.b N/A sq in

d) Engineered flood openings? ☐ Yes ☒ No

SECTION B – FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number	B2. County Name	B3. State
CITY OF FORT PIERCE 120286	ST. LUCIE COUNTY	Florida

B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	B7. FIRM Panel Effective/ Revised Date	B8. Flood Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use Base Flood Depth)
12111C0183	K	02/19/2020	02/19/2020	AE	5 FT.

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9:
☐ FIS Profile ☒ FIRM ☐ Community Determined ☐ Other/Source: _____

B11. Indicate elevation datum used for BFE in Item B9: ☐ NGVD 1929 ☒ NAVD 1988 ☐ Other/Source: _____

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☒ No
Designation Date: N/A ☐ CBRS ☐ OPA

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1501 THUMB POINT DRIVE			Policy Number:
City FORT PIERCE	State Florida	ZIP Code 34949	Company NAIC Number

SECTION C – BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☒ Finished Construction

*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1–A30, AE, AH, A (with BFE), VE, V1–V30, V (with BFE), AR, AR/A, AR/AE, AR/A1–A30, AR/AH, AR/AO. Complete Items C2.a–h below according to the building diagram specified in Item A7. In Puerto Rico only, enter meters.

Benchmark Utilized: ST. LUCIE CO. B.M. DO9389 Vertical Datum: NAVD 1988

Indicate elevation datum used for the elevations in items a) through h) below.

☐ NGVD 1929 ☒ NAVD 1988 ☐ Other/Source: _____

Datum used for building elevations must be the same as that used for the BFE.

		Check the measurement used.	
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	4.0	☒ feet	☐ meters
b) Top of the next higher floor	N.A	☒ feet	☐ meters
c) Bottom of the lowest horizontal structural member (V Zones only)	N.A	☒ feet	☐ meters
d) Attached garage (top of slab)	3.9	☒ feet	☐ meters
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	4.3	☒ feet	☐ meters
f) Lowest adjacent (finished) grade next to building (LAG)	3.3	☒ feet	☐ meters
g) Highest adjacent (finished) grade next to building (HAG)	3.9	☒ feet	☐ meters
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	N.A	☒ feet	☐ meters

SECTION D – SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. *I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.*

Were latitude and longitude in Section A provided by a licensed land surveyor? ☒ Yes ☐ No ☐ Check here if attachments.

Certifier's Name	License Number	
CLYDE MCNEAL	LB 8111	
Title SURVEYOR		
Company Name NEXGEN SURVEYING, LLC.		
Address 5601 CORPORATE WAY, SUITE 103		
City WEST PALM BEACH	State Florida	ZIP Code 33407
Signature	Date 02/25/2021	Telephone (561) 508-6272

Clyde O McNeal Digitally signed by Clyde O McNeal Date: 2021.02.25 12:26:58 -05'00'

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments (including type of equipment and location, per C2(e), if applicable)

This information is being collected for the primary purpose of estimating the risk premium rates necessary to provide flood insurance and is not to be used for any construction permitting purposes.
Latitude/Longitude in A5 derived from Google Maps. Machinery/Equipment in C2e is an A/C Pad.

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1501 THUMB POINT DRIVE			Policy Number:
City FORT PIERCE	State Florida	ZIP Code 34949	Company NAIC Number

SECTION E – BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete Items E1–E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B,and C. For Items E1–E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).

a) Top of bottom floor (including basement, crawlspace, or enclosure) is N . A ☒ feet ☐ meters ☒ above or ☐ below the HAG.

b) Top of bottom floor (including basement, crawlspace, or enclosure) is N . A ☒ feet ☐ meters ☒ above or ☐ below the LAG.

E2. For Building Diagrams 6–9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 1–2 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is N . A ☒ feet ☐ meters ☒ above or ☐ below the HAG.

E3. Attached garage (top of slab) is N . A ☒ feet ☐ meters ☒ above or ☐ below the HAG.

E4. Top of platform of machinery and/or equipment servicing the building is N . A ☒ feet ☐ meters ☒ above or ☐ below the HAG.

E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? ☐ Yes ☐ No ☐ Unknown. The local official must certify this information in Section G.

SECTION F – PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. The statements in Sections A, B, and E are correct to the best of my knowledge.

Property Owner or Owner's Authorized Representative's Name			
Address	City	State Florida	ZIP Code
Signature	Date	Telephone	

Comments

☐ Check here if attachments.

ELEVATION CERTIFICATE

OMB No. 1660-0008
Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1501 THUMB POINT DRIVE			Policy Number:
City FORT PIERCE	State Florida	ZIP Code 34949	Company NAIC Number

SECTION G – COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8–G10. In Puerto Rico only, enter meters.

G1. ☐ The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)

G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.

G3. ☐ The following information (Items G4–G10) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate of Compliance/Occupancy Issued

G7. This permit has been issued for: ☐ New Construction ☐ Substantial Improvement

G8. Elevation of as-built lowest floor (including basement) of the building: _____.____ ☐ feet ☐ meters Datum _____

G9. BFE or (in Zone AO) depth of flooding at the building site: _____.____ ☐ feet ☐ meters Datum _____

G10. Community's design flood elevation: _____.____ ☐ feet ☐ meters Datum _____

Local Official's Name	Title
Community Name	**Telephone**
Signature	**Date**

Comments (including type of equipment and location, per C2(e), if applicable)

☐ Check here if attachments.

ELEVATION CERTIFICATE

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

OMB No. 1660-0008
Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1501 THUMB POINT DRIVE			Policy Number:
City FORT PIERCE	State Florida	ZIP Code 34949	Company NAIC Number

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.

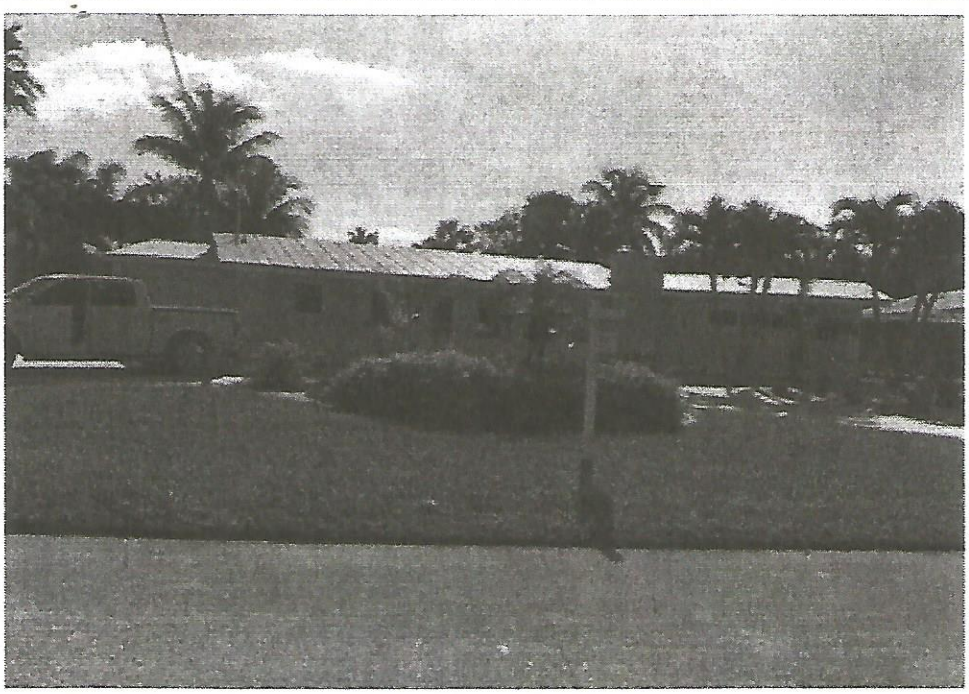


Photo One Caption Photo Taken 02/24/2021 "Front View"

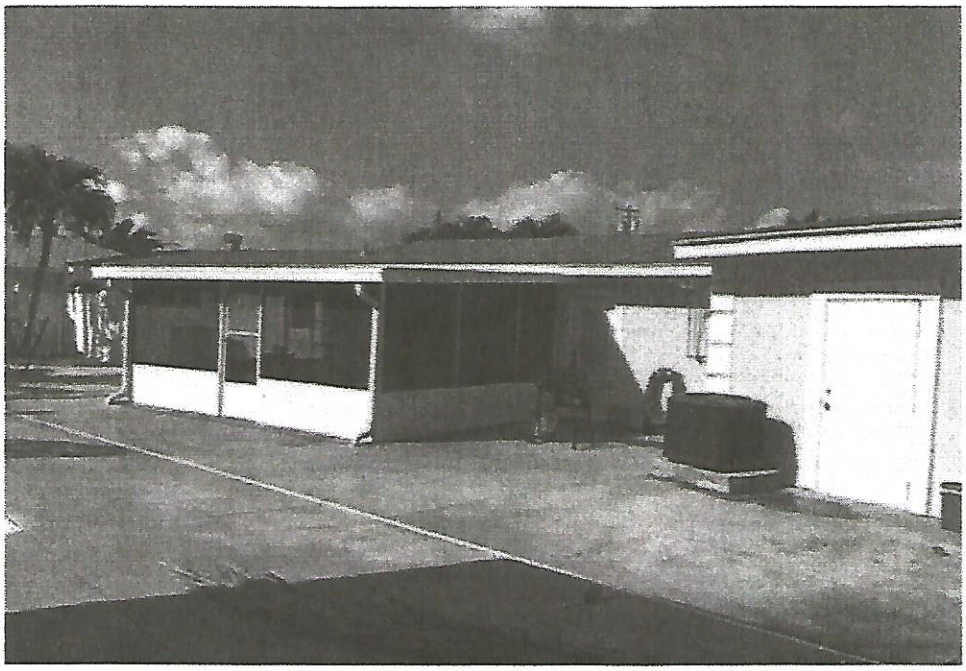


Photo Two Caption Photo Taken 02/24/2021 "Rear View"

ELEVATION CERTIFICATE

BUILDING PHOTOGRAPHS

Continuation Page

OMB No. 1660-0008
Expiration Date: November 30, 2022

IMPORTANT: In these spaces, copy the corresponding information from Section A.			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 1501 THUMB POINT DRIVE			Policy Number:
City FORT PIERCE	State Florida	ZIP Code 34949	Company NAIC Number

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.



Photo One Caption Photo Taken 02/24/2021 "Side View"

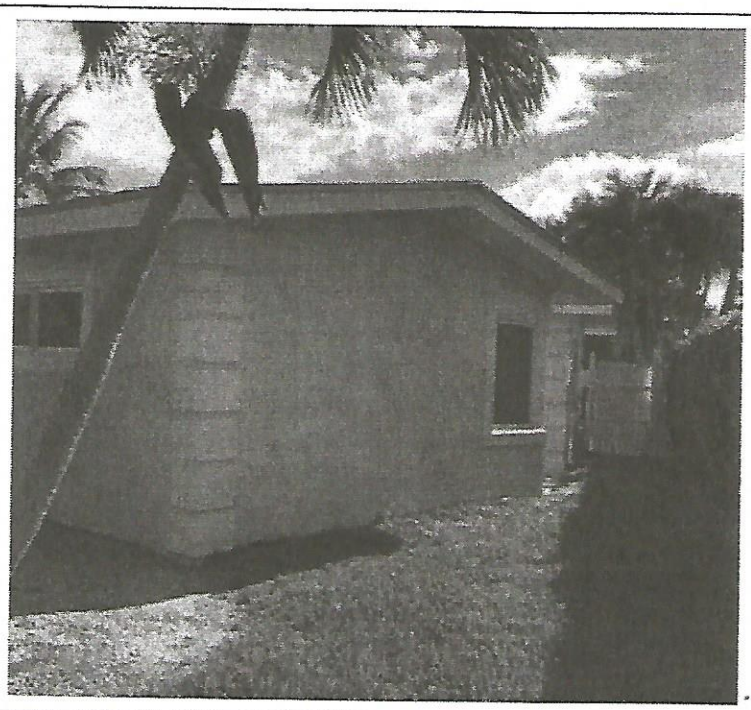
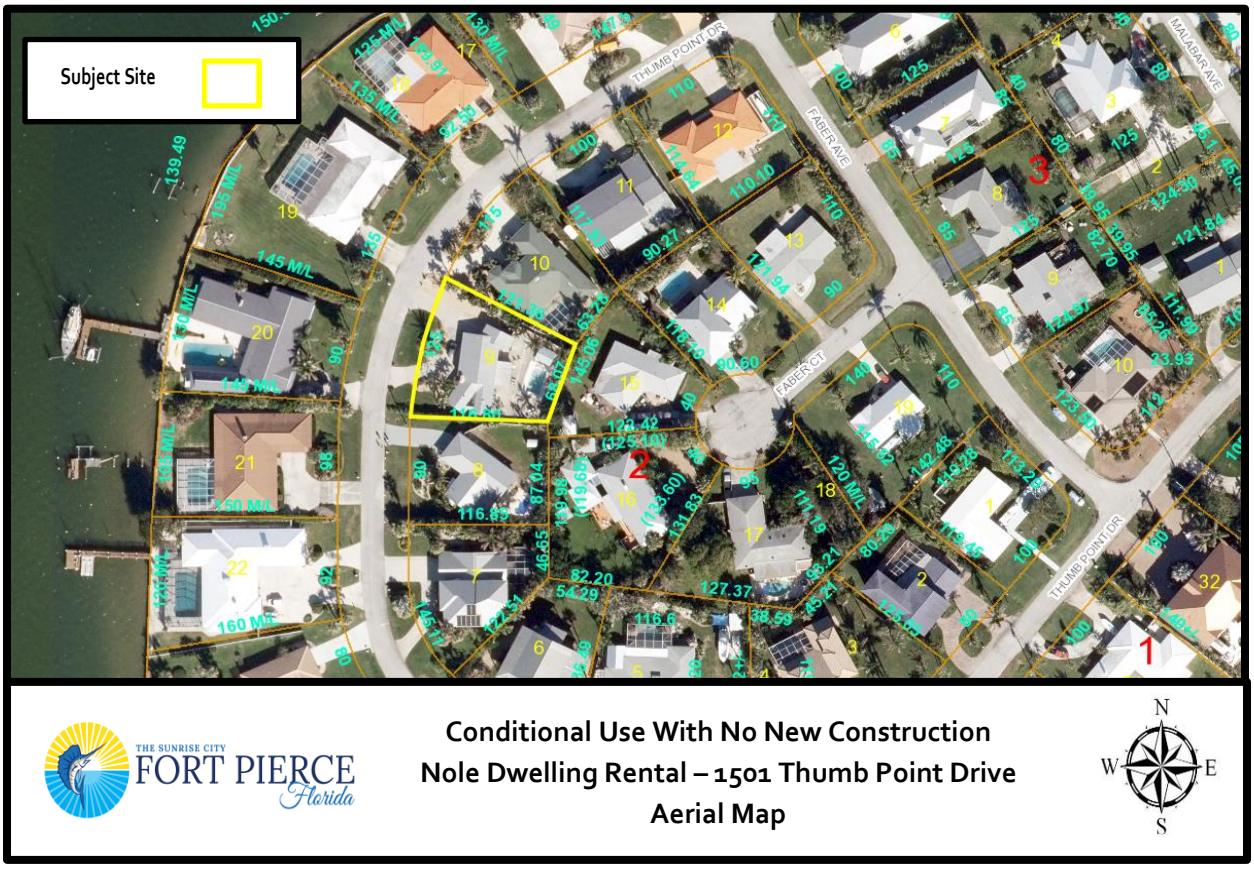


Photo Two Caption Photo Taken 02/24/2021 "Side View"

Aerial Map

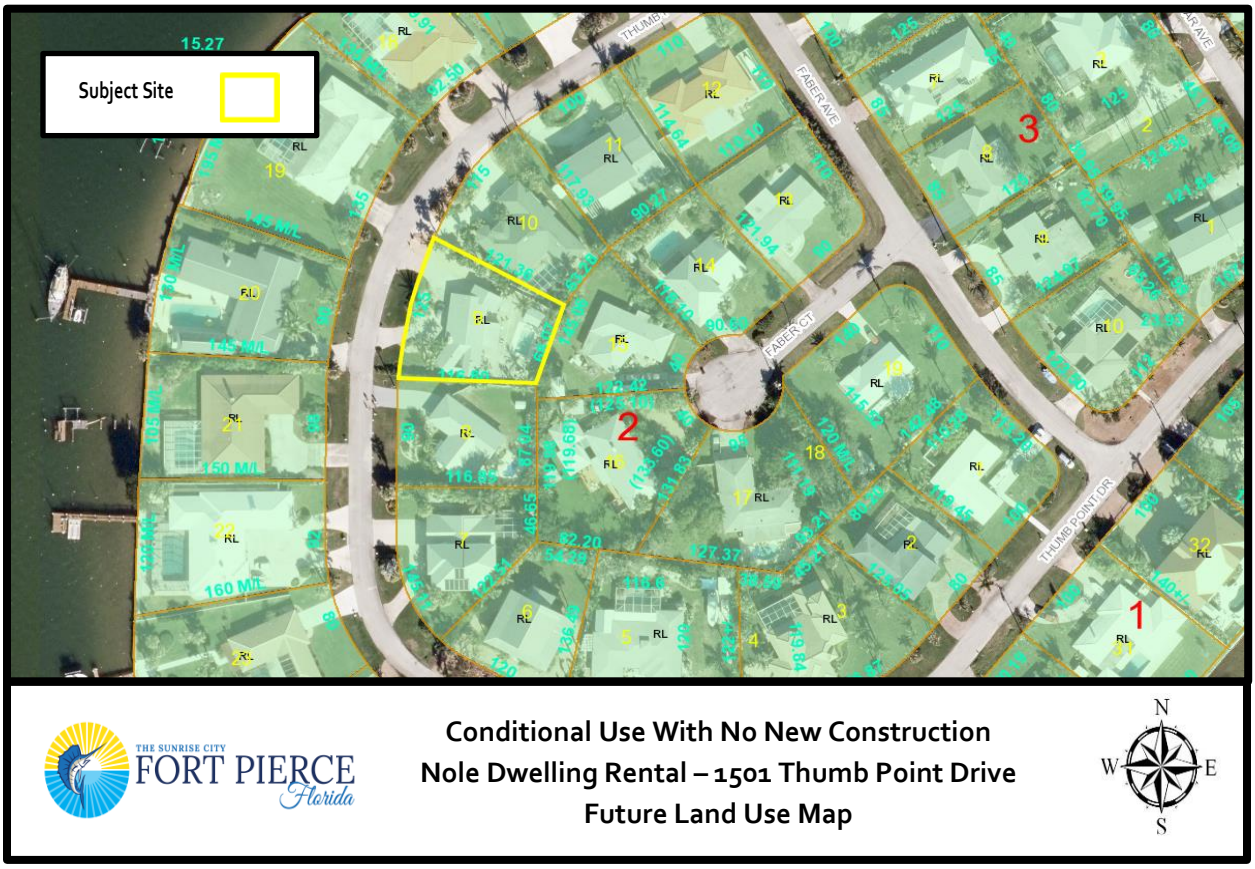


THE SUNRISE CITY FORT PIERCE Florida

Conditional Use With No New Construction
Nole Dwelling Rental – 1501 Thumb Point Drive
Aerial Map

N
W E
S

Future Land Use Map

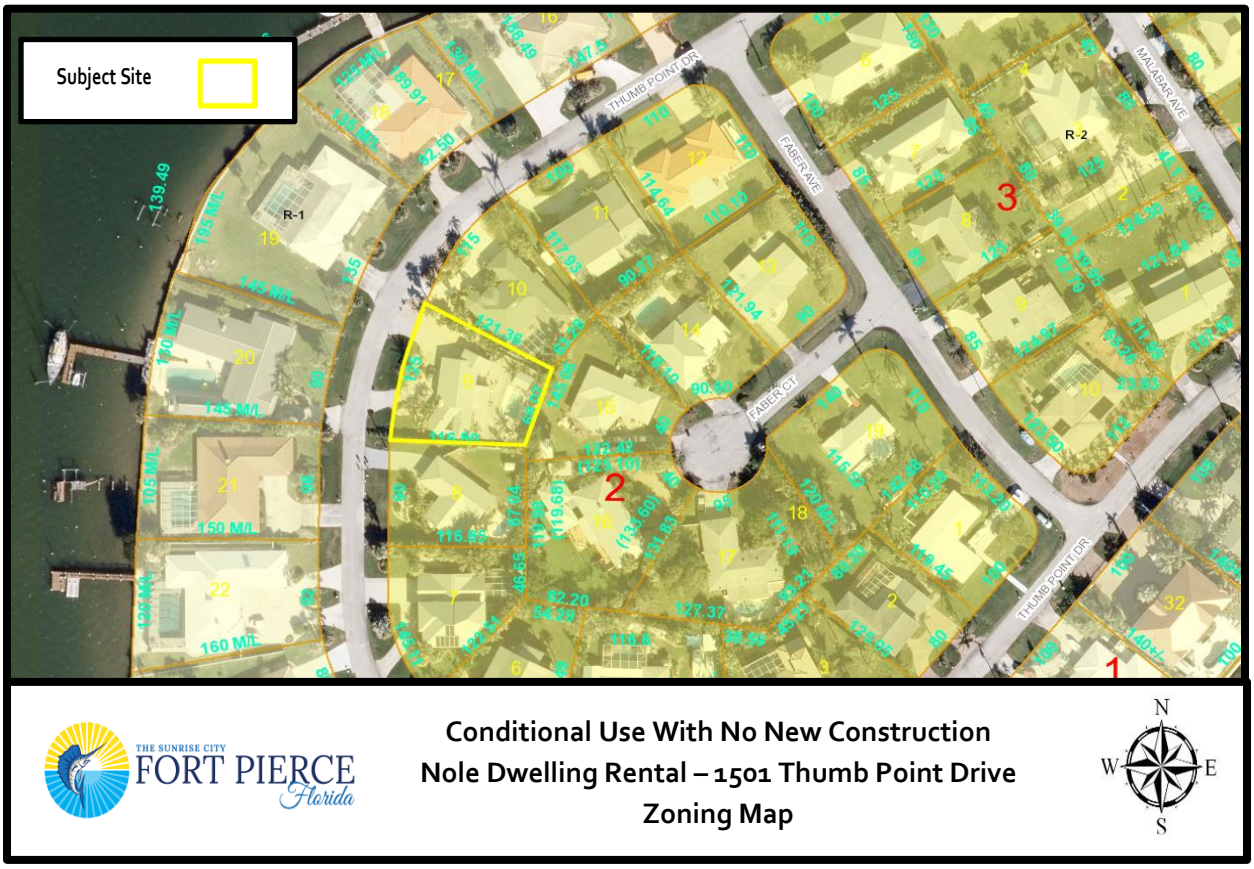


THE SUNRISE CITY FORT PIERCE Florida

Conditional Use With No New Construction
Nole Dwelling Rental – 1501 Thumb Point Drive
Future Land Use Map

N
W E
S

Zoning Map



THE SUNRISE CITY FORT PIERCE Florida

Conditional Use With No New Construction
Nole Dwelling Rental – 1501 Thumb Point Drive
Zoning Map

N W E S

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT
Florida

June 17, 2021

James Nole
1147 Hernando Street, Apt. A.
Fort Pierce, FL 34949
mike.signmeup@gmail.com

Subject: **Dwelling Rental -1501 Thumb Point Drive Conditional Use application - TRC Comments**

Dear Mr. Nole,

Below please find a summary of the comments for the City of Fort Pierce Technical Review Committee (TRC) meeting:

Fort Pierce Planning Department

1. The property manager for the vacation rental shall be available at all times to resolve complaints or violations of city code. Said manager shall reside in St. Lucie County and shall be registered with the City of Fort Pierce.

2. Guide booklets (available from Code Enforcement) shall be provided to renters regarding local rules and public service resources, to minimize conflicts.

3. The applicant shall file for and obtain St. Lucie County and City of Fort Pierce Business Tax Licenses within thirty (30) days of issuance of a license from the Florida Department of Business & Professional Regulation.

4. There shall be a limitation of no more than two vehicles per dwelling rental unit.

5. The City of Fort Pierce Business Tax License number shall be included on all advertising.

6. Note that all fees for advertising, mailing, and signs shall be paid upfront with the application fees. These fees can be found on the City website under the Planning Departments page under "*Public Notice Fee.*"

Fort Pierce Engineering Department

1. No comment.

Fort Pierce Code Enforcement Division

1. No comments from Code Enforcement – there is no active or prior cases at this location. The provided narrative appears to cover all the typical issues.

Fort Pierce Building Department

1. Vacation rental properties, including SFR used as transient rentals, shall be regulated through the DBPR, Florida Statute 509.242(c), Florida Administrative Code 61A-43 and will be amended by any future legislation or directives from the State of Florida.

2. Fire Sprinkler requirements are deferred to Fire Marshall pursuant to Florida Administrative Code 69A-43.

Fort Pierce Police Department

1. No comment.

St. Lucie County Fire District

1. No comment.

Fort Pierce Utility Authority

W/WW Engineering:

1. Location is presently a water and wastewater customer of FPUA. If fire protection is required, this service MUST be supplied via a dedicated "stand-alone" fire suppression device. Please contact Lugey Dawson @ (772) 466-1600 extension 3428 if this modification is required.

Electric & Gas Engineering:

1. If the owner/applicant has any questions, please contact Sal Scimeca at (772)466-1600 extension 6957.

St. Lucie County Public Works

1. No comment.


THUMB POINT DR
MALABAR AVE
FABER AVE
FABER CT

Planning Board **7. e.**

Meeting Date: 07/14/2021

Information

REQUESTED ACTION

Conditional Use and Waiver of Distance - Bamboo Palms Arcade - 1717 S. US Highway 1

LOCATION

1717 S US HWY 1

RESPONSIBLE STAFF

Vennis Gilmore, Senior Planner

RECOMMENDATION

The proposed use offers a provision of Arcade Amusement Center representing a limited commercial use that is compatible with the surrounding neighborhood and is generally consistent with the City's Comprehensive Plan and Land Development Code with appropriate restrictions. Therefore, Staff recommends **APPROVAL** with the following three (3) conditions:

1. Per City Code 125-325. – Amusement Arcades and Arcade Amusement Centers.(2)(f): **Amusement arcades or arcade amusement centers shall provide bicycle racks within enough stalls to accommodate one bicycle for each five game machines located within the premises.**Bicycle racks shall be located as close as practical to the entrance of the facility and shall not be located in a manner that obstructs any entrances, exits, sidewalks, driveways, or parking areas. **Install a bicycle rack with the minimum required spaces.**
2. Adhere to City Code Section 125 . 325. – Amusement Arcades and Arcade Amusement.
3. A Lot Combination and Unity of Title, or Convenant in Lieu of Unity of Title of Parcel ID: 2415-311-0004-000-3 and Parcel ID: 2415-311-0004-010-6, to provide continual access for a sustainable commercial site must be completed.

Attachments

Staff Report
Application & Supporting Documents
Location Map
FLU Map
Zoning Map
TRC Comments

Form Review

Form Started By: Vennis Gilmore Started On: 07/07/2021 04:58 PM

Final Approval Date: 07/08/2021

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

TO:	City of Fort Pierce Planning Board
THROUGH:	Jennifer Hofmeister-Drew, AICP, LCAM, Planning Director
FROM:	Vennis Gilmore, Senior Planner
RE:	**Bamboo Palms Arcade** **1717 S US HWY 1**
BOARD DATE:	July 14, 2021

STAFF REPORT

Owner:	Bamboo Palms 3609 S. Indian River Drive Fort Pierce, FL 34982
Representative:	Architectonic Inc. 806 Delaware Avenue Fort Pierce, FL 34950
Applicant's Request:	Approval of a Conditional Use with No New Construction and Waiver of Distance to operate a 1,130 sq ft Amusement Arcade Center with 22 arcade machines
Location(s):	1717 S US Highway 1
Parcel ID(s):	2415-311-0004-000-3, 2415-311-0004-010-6
Future Land Use:	General Commercial (GC)
Current Zoning:	General Commercial Zone (C-3)

Surrounding FLU:

North	East	South	West
GC	GC	GC	RM

Surrounding Zoning:

North	East	South	West
C-3	C-3	C-3	R-4

Utilities:	FPUA

Acres: 2.88
Staff Analysis:

Request
In accordance with Sections 125-187,125-237, 125-325, and 125-314 of the City Code, the applicant is requesting the review and approval of a Conditional Use with No New Construction and Waiver of Distance to operate a 1,130 sq ft Amusement Arcade Center with 22 arcade machines. The approximately 2.88 acres property is located just south of Ohio Avenue and west of S. US Highway 1. The subject site is surrounded by commercial uses to the north, south, and east, and residential uses to the west. The proposed arcade will be located in one (1) bay of a retail plaza. The property has a Future Land Use of General Commercial (GC) and is zoned General Commercial Zone (C-3).

The proposed Arcade Amusement Center is specifically dedicated for the amusement of adults. The project's floor plan will consist of an office, (2) restrooms, and (22) arcade machines stations. Hours of operation will be Sunday through Thursday from 8am-12am and Friday through Saturday 8am-2am.

Future Land Use & Zoning
The GC Future Land Use designation provides for higher intensity commercial developments or horizontal and vertical mixed-use developments. Uses allowed within this designation include multifamily residential, intensive and general commercial, retail, service, offices, tourist/entertainment facilities, hotels/motels, parks and recreation, along with compatible public, quasi-public, and special uses. This land use designation allows for a maximum density of 15 dwelling units per acre and a maximum FAR of 1.0. Development shall include either commercial or mixed uses fronting major roadway corridors with higher intensity near major intersections. Residential uses may comprise up to 20 percent of the total floor area of the General Commercial future land use designation.

The subject site is located within the C-3, which is intended to provide for a broad variety of business activities including shoppers' goods stores, convenience goods and service establishments, offices and tourist/entertainment facilities. Many public and semi-public uses are also appropriate. Compared to the C-4 zone, this district is more suitable for uses requiring a high degree of accessibility to vehicular traffic, low intensity uses on large tracts of land, most repair services and small warehousing and wholesaling operations. Although this zone should be located along or near arterial or collector streets, it is not the intent of this district to encourage the extension of strip commercial areas. Instead, it should promote concentrations of commercial activities.

Parking
Pursuant to City Code Section 125-325 (2)(l)(f), Design Standards, Amusement Arcade Centers shall provide 0.75 parking spaces for each arcade gaming machine and shall provide bicycle racks within enough stalls to accommodate one bicycle for each five game machines located within the premises. Bicycle racks shall be located as close as practical to the entrance of the facility and shall not be located in a manner that obstructs any entrances, exits, sidewalks, driveways, or parking areas. The required parking is 17 parking spaces. The subject site plan features 62 parking spaces with three (3) designated

handicap parking spaces. The submitted site plan indicates the proposed location of the required bicycle rack. The required bicycle rack will be a condition of approval.

Landscaping

The applicant has not submitted an updated Landscape Plan demonstrating that new trees and plantings will comply with the requirements of the City's landscaping ordinance.

Waiver of Distance

Per City Code 125-325. – Amusement Arcades and Arcade Amusement Centers.(1)(c): No arcade amusement center shall be located within 1,250 feet of another arcade amusement center. Such distance shall be measured from closest property line to closest property line. A Waiver of Distance Application is required because the proposed use of Arcade Amusement Center is within 1,250 feet of another proposed Arcade Amusement Center, Gateway Plaza Arcade (2051 S. US Highway 1).

Per City Code 125-325. – Amusement Arcades and Arcade Amusement Centers.(5)(c); The city commission shall consider the following for any waiver request:

1.

The actual location and distance of the proposed establishment with respect to other places of business licensed to sell intoxicating beverages, whether on or off the premises;

a. Walgreens located at 1603 S. US Highway 1
b. Aldi at 1412 S. US Highway 1

2.

The type and size of the establishment, including the number of machines, seating capacity, and whether, in view of such type or size, the proposed establishment is likely to create a public nuisance or traffic impediment by drawing crowds or persons milling about outside the building;

a. The proposed number of machines is 22. The existing bay of the retail plaza is approximately 1,130 square feet. Both sizes are relatively small for commercial uses.

3.

Whether adequate parking and landscaping for the facility is provided so as to meet the requirements set forth in sections 123-37 and 125-316;

a. 17 parking spaces with 3 designated handicap spaces is required for the subject Arcade Amusement Center; the applicant is providing 17 parking spaces with 3 designated handicap spaces. The applicant will not provide additional landscaping to the existing site.

4.

Whether the facility is physically separated or well-buffered from all adjacent residentially zoned areas;

a. The subject site is surrounded by commercially zoned areas, buffering is not needed.

5.
Whether traffic generated by patrons or pickup/delivery vehicles will pass through low or moderate density residentially zoned neighborhood;

a. The proposed use does not over a service but rather entertainment, any pick-up/deliveries will be moderately low in nature or non-existent.

6.
The number of police calls to the proposed location and/or adjacent properties within the past year.

a. An update will be provided to City Commission.

Conditional Use

As stated in City Code Section 125-235, the purpose of the Conditional Use process is to allow, when desirable, uses that would not be appropriate generally or without restriction throughout a particular zoning district, but which, if controlled as to number, area, location, or relation to the neighborhood, would not adversely affect the public health, safety, comfort, good order, appearance, convenience, and the general welfare.

Technical Review Committee

All affected departments have reviewed the proposed Conditional Use and Design Review with regards to the requirements of the City Code. Findings from the review by corresponding departments and the associated responses by the applicant are provided.

Staff Recommendation*:*

The proposed use offers a provision of Arcade Amusement Center representing a limited commercial use that is compatible with the surrounding neighborhood and is generally consistent with the City's Comprehensive Plan and Land Development Code with appropriate restrictions. Therefore, Staff recommends **APPROVAL** with the following three (3) conditions:

1. Per City Code 125-325. – Amusement Arcades and Arcade Amusement Centers.(2)(f): **Amusement arcades or arcade amusement centers shall provide bicycle racks within enough stalls to accommodate one bicycle for each five game machines located within the premises.** Bicycle racks shall be located as close as practical to the entrance of the facility and shall not be located in a manner that obstructs any entrances, exits, sidewalks, driveways, or parking areas. **Install a bicycle rack with the minimum required spaces.**

2. Adhere to City Code Section 125 . 325. – Amusement Arcades and Arcade Amusement.

3. A Lot Combination and Unity of Title, or Convenant in Lieu of Unity of Title of Parcel ID: 2415-311-0004-000-3 and Parcel ID: 2415-311-0004-010-6, to provide continual access for a sustainable commercial site must be completed.

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

Conditional Use – No New Construction

Property address or Location 1717 S. U.S. #1

Parcel ID #(s)

Project description Change of Use to Arcade

Bamboo Palms
Property Owner(s)

3609 S. Indian River Dr,
Street Address

Ft. Pierce FL 34982
City State Zip

772-201-9044
Phone Number

GrimeSusan@aol.com
Email Address

Architectonic Inc.
Applicant/Representative, Title, Company

Michael Menard Vice President Architectonic Inc.
Street Address

806 Delaware Ave. Florida 34950
City State Zip

Ft. Pierce
Phone Number

772 460 7751 mmenard@architectonicinc.com
Email Address

Property Owner(s) Acknowledgements: *- This application will not be considered complete without the signature of all property owners of record, which shall serve as an acknowledgement of the submission of this application. The property owner's signature below shall also authorize the Applicant (if other than the property owner) and/or Representative to act in his/her behalf for the purposes of seeking approval for the application described herein.*

Susan Grimes, representative
Property Owner(s) Signature(s)

STATE OF FLORIDA -- COUNTY

The foregoing instrument was acknowledged before me this 22 day of April, 20 21, by Susan Grimes who is personally known to me or has produced D Licence G652-786-50-865-0 as identification.

Priscilla M. Reyes Gamez
Signature of Notary

(seal)

PRISCILLA MARIE REYES GAMEZ
MY COMMISSION # GG325831
EXPIRES: April 18, 2023

INTAKE MEETINGS ARE REQUIRED FOR ALL SUBMITTALS. CALL (772) 467-3729

TO BE COMPLETED BY STAFF

Zoning	Future Land Use	Total Acres	Historic District	Historic Designation
				Contributing Individual Non-Contributing None

Pre-Application Meeting Date

Intake Planner

Planner Assigned

Approved By Date

Comments

Fees Control # B. Permit #

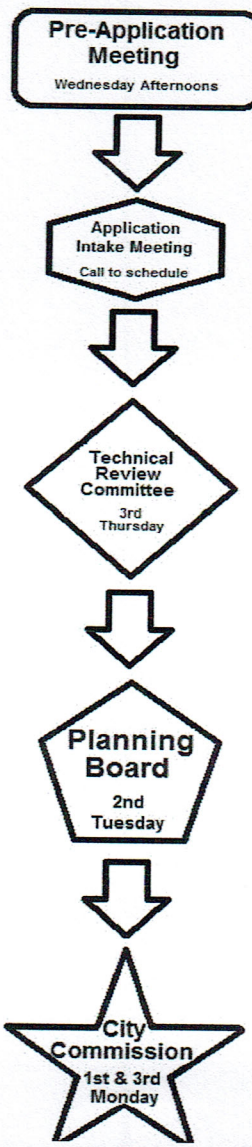
Intake Date Stamp

❑ CONDITIONAL USE: NO NEW CONSTRUCTION

Submit one original, seven (7) hard copies and one (1) CD of the following for initial submittal, subsequent submittals will be required:

- ❑ *If no site improvements are required:*
  - ❑ As-built survey
  - ❑ Floor plan of existing building(s)
- ❑ *If parking and drainage improvements are required:*
  - ❑ As-built survey;
  - ❑ Site plan, to scale, including existing improvements and proposed parking, driveways, landscaping & storm drainage;
  - ❑ Lighting plan
- ❑ Complete, notarized application

Application Outlook



Application Type:

- ■ Conditional Use: No new construction with no site improvements
- ❑ Conditional Use: No new construction with parking and drainage improvements

Site Information:

Building Size 13200 Parking Spaces: 62
ARCADE 1130 SF.

Surrounding Uses: *(i.e. single family home, retail, industrial, etc.)*

North	South	East	West
C-3	C-3	C-3	C-3

C-3 GENERAL COMMERCIAL

The application for conditional use with the application for site plan review, when not exempt in accordance with the requirements of section 22-75, shall be reviewed as a unit in accordance with the requirements of section 22-58 except that:

(1) The city commission shall hold a public hearing in accordance with the provisions of section 22-143 prior to acting on the application for conditional use.

(2) In the event the city planning board disapproved the application for conditional use or in case of a protest against said application signed by twenty (20) per cent of the owners within five hundred (500) feet of the area included in said application, such application shall not be approved except by a four-fifths vote by the city commission.

(3) In permitting a conditional use or the modification of an existing conditional use, the city commission may impose, in addition to those standards and requirements expressly specified in this chapter, any condition which it finds to be necessary to protect the best interest of the surrounding property of the city.

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

WAIVER OF DISTANCE

Property address or Location 1717 SOUTH US HIGHWAY #1

Parcel ID #(s)

Project description INTERIOR BUILD OUT FOR AN ARCADE

BAMBOO PLAMS

Property Owner(s)

3609 SOUTH INDIAN RIVER DR.

Street Address

FT. PIERCE FLORIDA 34982

City State Zip

772 201 9044

Phone Number

GRIMESSUSAN@AOL.COM

Email Address

ARCHITECTONIC INC.

Applicant/Representative, Title, Company

MICHAEL MENARD VICE PRESIDENT ARCHITECTONIC INC.

Street Address

806 DELAWARE AVE. FT. PIERCE FL 34950

City State Zip

772 460 7751

Phone Number

MMENARD@ARCHITECTONICINC.COM

Email Address

Property Owner(s) Acknowledgements: *- This application will not be considered complete without the signature of all property owners of record, which shall serve as an acknowledgement of the submission of this application. The property owner's signature below shall also authorize the Applicant (if other than the property owner) and/or Representative to act in his/her behalf for the purposes of seeking approval for the application described herein.*

Susan Grimes, representative

Property Owner(s) Signature(s)

STATE OF FLORIDA -- COUNTY

The foregoing instrument was acknowledged before me this 13th day of May, 2021, by Susan Grimes who is personally known to me or has produced FL DL as identification.

Priscilla M. Reyes Gamez

Signature of Notary

(seal) NOTARY PUBLIC STATE OF FLORIDA PRISCILLA MARIE REYES GAMEZ MY COMMISSION # GG325831 EXPIRES: April 18, 2023

INTAKE MEETINGS ARE REQUIRED FOR ALL SUBMITTALS. CALL (772) 467-3737

TO BE COMPLETED BY STAFF

Zoning	Future Land Use	Total Acres	Historic District	Historic Designation
				Contributing Individual Non-Contributing None

Pre-Application Meeting Date

Intake Planner

Planner Assigned

Approved By Date

Comments

Fees Control # B. Permit #

Intake Date Stamp

☐ WAIVER OF DISTANCE

Submit one (1) original & seven (7) hard copies and one (1) CD of the following. Additional copies will be required of subsequent submittals.

- ☐ As-built site drawing, to scale, including the building, front door, parking area, traffic ingress and egress, sidewalks, landscaping and exterior lighting
- ☐ Sketch of the building's interior layout including square footage of the following: kitchen, bar area, seating arrangement, and restrooms
- ☐ Complete, notarized

Application Type:

- ☐ 1 APS/2APS: Beer Only / Package Sales or On-Premises Consumption
- ☐ 1 COP/2COP: Beer and Wine/Package Sales or On-Premises Consumption
- ☐ 3 APS: Beer, Wine & Liquor/Package Sales Only
- ☐ 4 COP: Beer, Wine & Liquor/On-Premises Consumption
- ☒ 4 Arcade

Business Information:

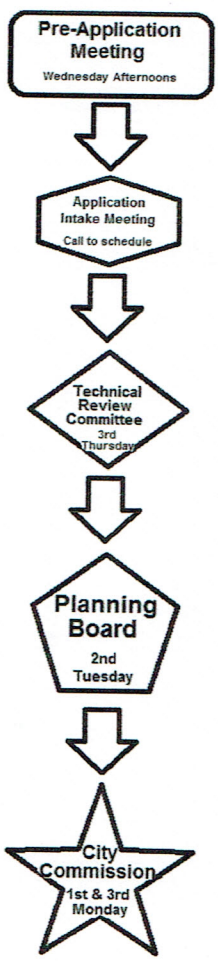
- ☐ New Business
- ☐ Transfer from:_____ Open since:_____
  address *year*

Building Size 1130 S.F. Maximum Occupancy 22 GAMES Total Seating 22 Parking Spaces 62

Hours of Operation:

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
to 10 AM -10PM	to 10AM-10PM	to 10AM-10PM	to 10AM-10PM	to 10AM-2AM	to 10AM-2AM	to 10AM-10PM

Application Outlook



Minimum requirements for on-premises consumption.

(1) An applicant holding a "Beer and Wine—Consume on Premises and Package Sales" license must be engaged in conducting a bona fide restaurant establishment, for which such waiver is sought, and to qualify as a bona fide restaurant the restaurant must:

(a) Have tables capable of seating not fewer than twenty (20) persons simultaneously, for the purpose of serving meals;

(b) Must dispense sales of beer and wine only to persons patronizing the establishment for the main purpose of ordering and consuming food;

(c) Have permanent kitchen facilities with a commercial stove, refrigerator and oven located within the premises in which meals are regularly prepared for service to patrons of the establishment.

(2) An applicant holding a "Beer, Wine and Liquor—Consume on Premises and Package Sales" license must demonstrate that any parking area provided for is illuminated by not less than three (3) footcandles per square foot of parking lot area.

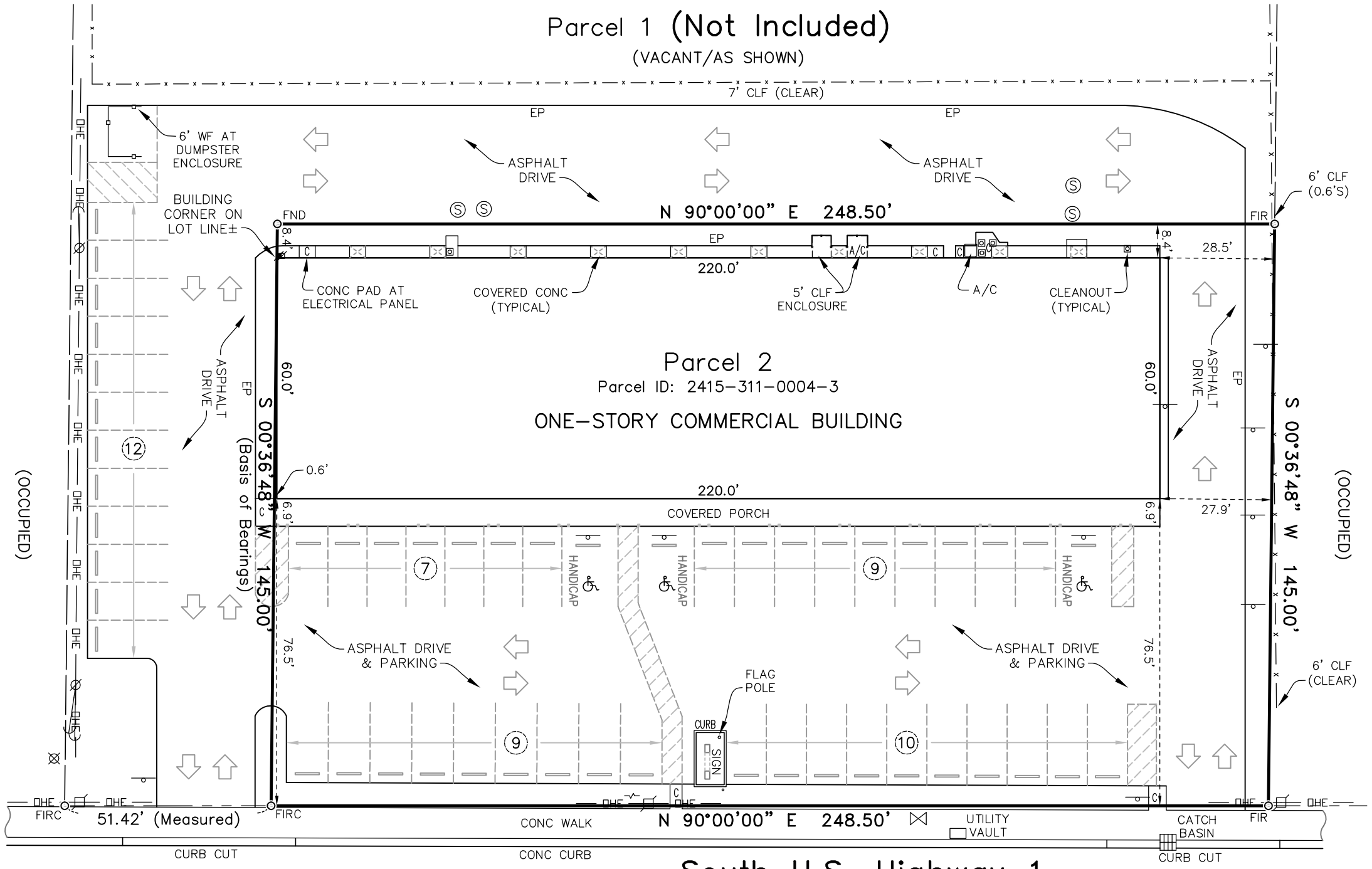
Sec. 125-325. - Amusement arcades and arcade amusement centers.

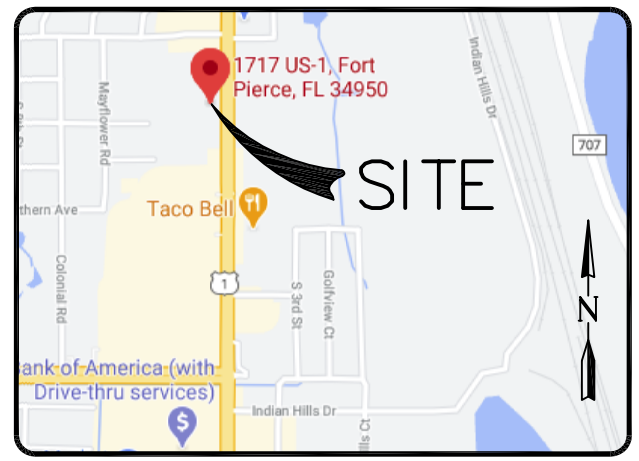
Amusement arcades and arcade amusement centers shall comply with the following regulations:

(1) *General operating standards.*

c. No arcade amusement center shall be located within 1,250 feet of another arcade amusement center. Such distance shall be measured from closest property line to closest property line.

e. No amusement arcade or arcade amusement centers shall be located within 250 feet of the Downtown Business and Entertainment Overlay District boundaries.





Vicinity Map
(Not To Scale)

LEGAL DESCRIPTION PARCEL 2:

The North 248.50 feet of the East 145.00 feet of the East 417.35 feet of the South 300.00 feet of the North 680.00 feet of the Ne 1/4 of the sw 1/4 of Section 15, Township 35 South, Range 40 East, said property lying and being West of U.S. Highway 1 in Fort Pierce, St. Lucie County, Florida. Subject to all pertinent matters of record.

LOT AREA: 36,030 Sq. Ft.; 0.83 Acres±

STREET ADDRESS: 1717 S US Highway One, Fort Pierce, Florida 34950.

SURVEYORS' NOTES:

1. Bearings shown hereon are based on the South line of subject property as platted and is assumed to bear S 00°36'48" W.
2. Written dimensions take precedence over scaled dimensions and distances are not to be scaled for construction and/or design purposes.
3. All distances and bearings are as field measured and are coincident with "PLAT" and description data unless otherwise noted.
4. This drawing is not valid without the signature and original raised seal of a Florida licensed Surveyor & Mapper.
5. This survey is based upon a description furnished by the client, there has been no search of the public records done by this office.
6. Property lies in Flood Zone "X" as scaled from the National Flood Insurance Program Rate Map, Community Panel Number 12111C0187 K, with an effective date of February 19, 2020.
7. This survey is not covered by professional liability insurance.
8. City water & sewer are available in this area.
9. This survey meets the required accuracy as shown in Ch. 5J-17.051 (2) (b) based on its expected use.
10. No underground utilities or improvements were located unless otherwise shown.

LEGEND

CL	= CENTERLINE RIGHT OF WAY	Ⓢ	= SANITARY MANHOLE
EP	= EDGE OF PAVEMENT	◎	= SANITARY CLEANOUT
CONC	= CONCRETE	⌀	= TELEPHONE RISER
FIRC	= FOUND 5/8" IRON ROD & CAP (UNNUMBERED)	⋈	= WATER VALVE
FIR	= FOUND 5/8" IRON ROD (UNNUMBERED)	▲	= WATER METER
FND	= FOUND NAIL & DISK (UNNUMBERED)	A/C	= AIR CONDITIONER PAD
-OHE-	= OVERHEAD UTILITY LINES	CLF	= CHAIN LINK FENCE
	= CONCRETE POWER POLE	WF	= WOOD FENCE
	= WOOD POWER POLE		= CABLE TELEVISION RISER
	= POLE ANCHOR	±	= PLUS OR MINUS
	= SIGN	C	= CONCRETE PAD
		⊠	= LIGHT POLE
			= BACK FLOW PREVENTER
		⋈	= SANITARY VALVE

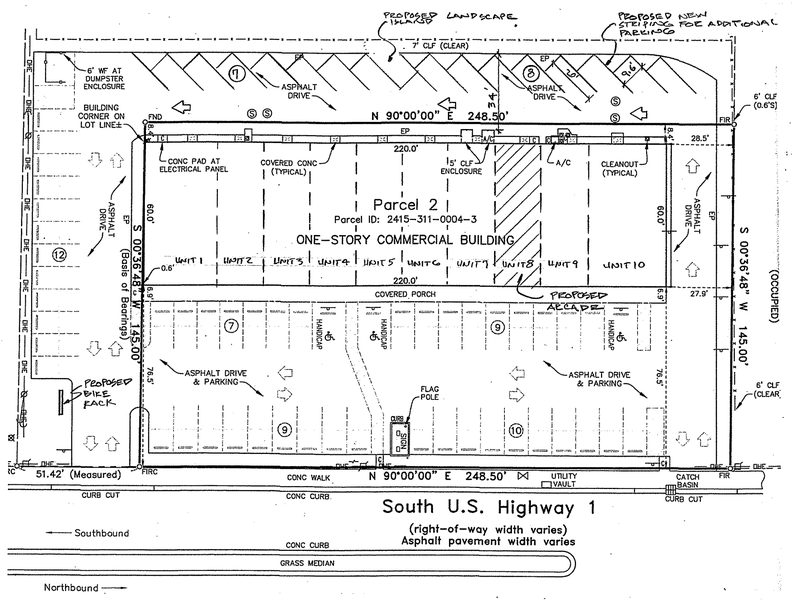
WILLIAM B. BENNETT
Professional Surveyor & Mapper
Florida Certificate No. 6353
LB No. 7608

CERTIFIED TO:
BAMBOO PALMS, LLC

Date of Last field work: 03/18/2021

Bennett Surveying, Inc.
107 Augusta Court
Jupiter, Florida 33458
tel: 772.336.4933
email: bennettsurveying@yahoo.com

Boundary Survey		
Prepared on the order of: Amy Cheatham		
Field:	JP/BB	Job No.: 21-0301
Drawn:	WB	Date: 03/18/2021
Scale:	1"=30'	Sheet: 1 of 1



PLOT PLAN NORTH 1"=30'

INFORMATION TAKEN FROM SURVEY BY BENNETT SURVEYING INC, JOB # 21-0301 DATED 3/18/21

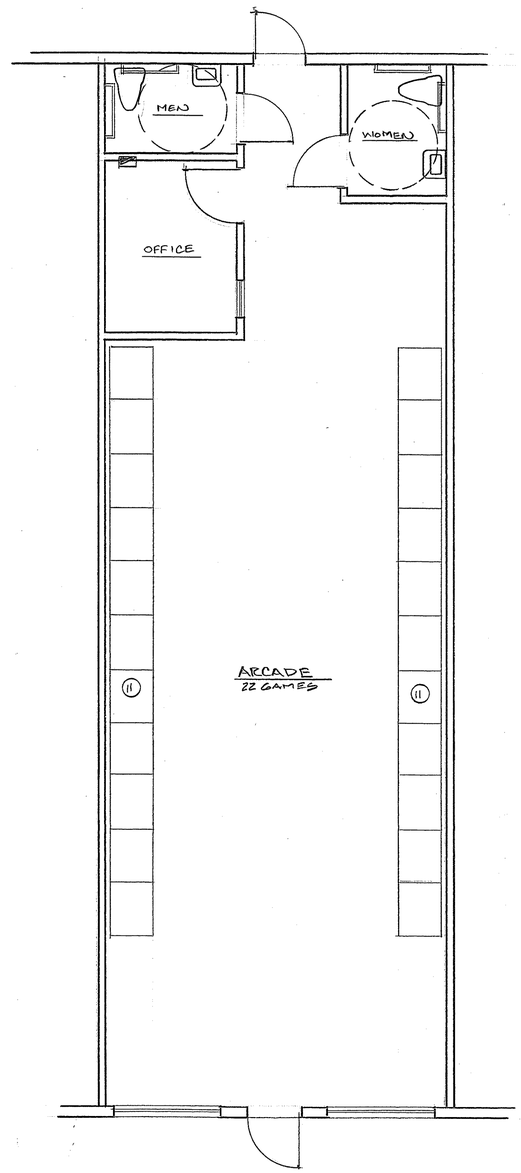
PARKING CALACULATIONS:

3 UNITS PERSONNEL SERVICE	= 3980 S.F.
REQUIRED PARKING 3980/300	= 13.2 SPACES
1 UNIT VACANT (BUSINESS)	= 1130 S.F.
REQUIRED PARKING 1130/300	= 3.7 SPACES
4 UNITS RETAIL	= 4520 S.F.
REQUIRED PARKING 4250/ 200	= 22.6 SPACES
1 UNIT ARCADE	= 1130 S.F.
REQUIRED PARKING 22 GAMES @ .75	= 16.5 SPACES
TOTAL NUMBER OF REQUIRED SPACES	68
MINUS 1200 S.F. EXEMPTION	-6
TOTAL NUMBER OF REQUIRED SPACES	**62**
EXISTING TOTAL NUMBER OF SPACES	**47**
PROPOSED ADDITIONAL (ANGLE PARKING / RESTRIPING)	**15**
TOTAL NUMBER OF SPACES PROVIDED	**62**

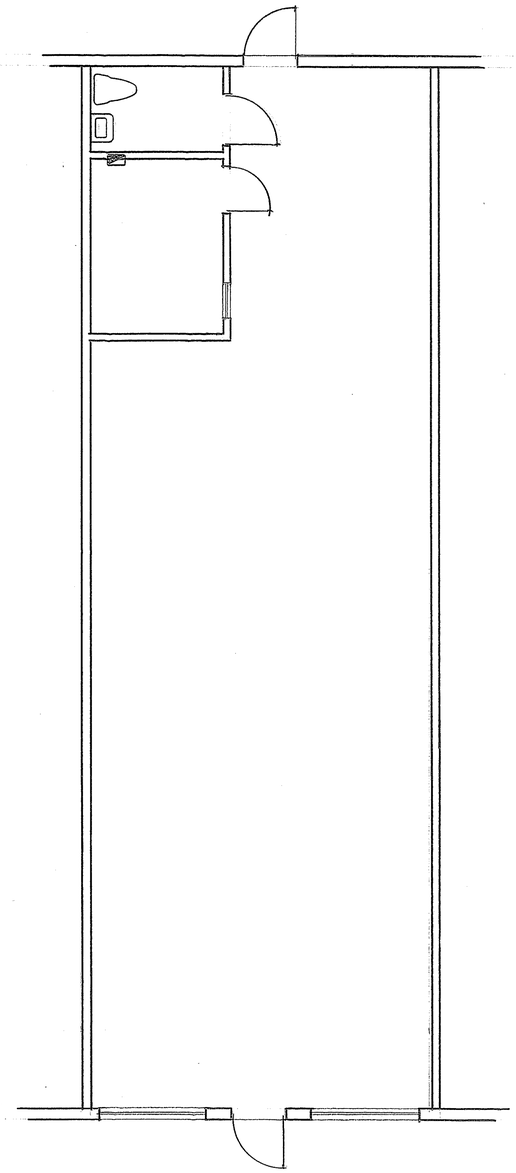
HOURS OF OPERATION	
MONDAY – THURSDAY	8AM – 12 AM
FRIDAY – SATURDAY	8AM – 2 AM
SUNDAY	8AM – 12 AM

NARRATIVE:
THE PROJECT CONSISTS OF A 1130 S.F. INTERIOR BUILD-OUT FOR AN ARCADE CALLED ALL IN ARCADE WHICH WILL HAVE 22 MACHINES, 4 EMPLOYEES AND WILL OPERATE MONDAY THRU THURSDAY 10 AM TO 10 PM, FRIDAY AND SATURDAY 10 AM TO 2 AM, AND SUNDAY FROM 10AM TO 10 PM.

SCOPE OF WORK :
INTERIOR RENOVATIONS FOR ADA, LIFE SAFETY, AND BUILDING CODE REQUIREMENTS. SITE IMPROVEMENTS CONSIST OF RESTRIPING THE REAR LOT FOR ADDITIONAL PARKING, BRINGING THE LANDSCAPING AND SITE LIGHTING UP TO CODE REQUIREMENTS.



RENOVATION PLAN 1/4"



AS-BUILT / DEMOLITION PLAN 1/4"

ARCHITECT

Architectonic Inc

806 DELAWARE AVENUE
FORT PIERCE, FLORIDA 34950
T: 772 460 7751
F: 772 460 4244

WWW.ARCHITECTONICINC.COM

STATE REG # AA26003348

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PROJECT

1717 ARCADE

CITY OF FT. PIERCE, FLORIDA

CLIENT

CONSULTANTS

REGISTRATION

MICHAEL J. SEAL, AIA
AR98898

REVISIONS

NO.	DATE	REVISION

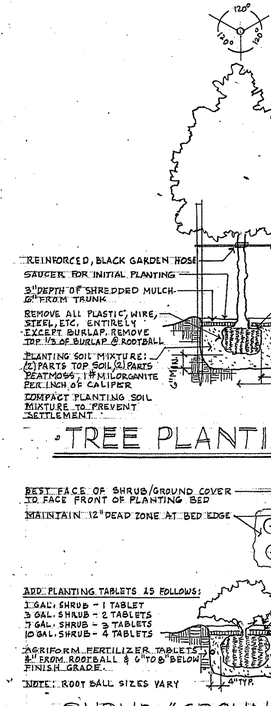
KEY PLAN

SHEET TITLE / SHEET NUMBER

A-1 OF 1

PROJECT NUMBER C21005

DATE

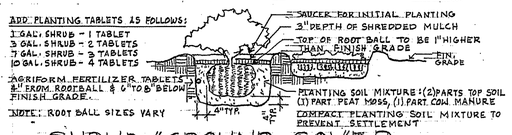


TREE PLANTING DETAIL

N.T.S.

PLAN VIEW

N.T.S.

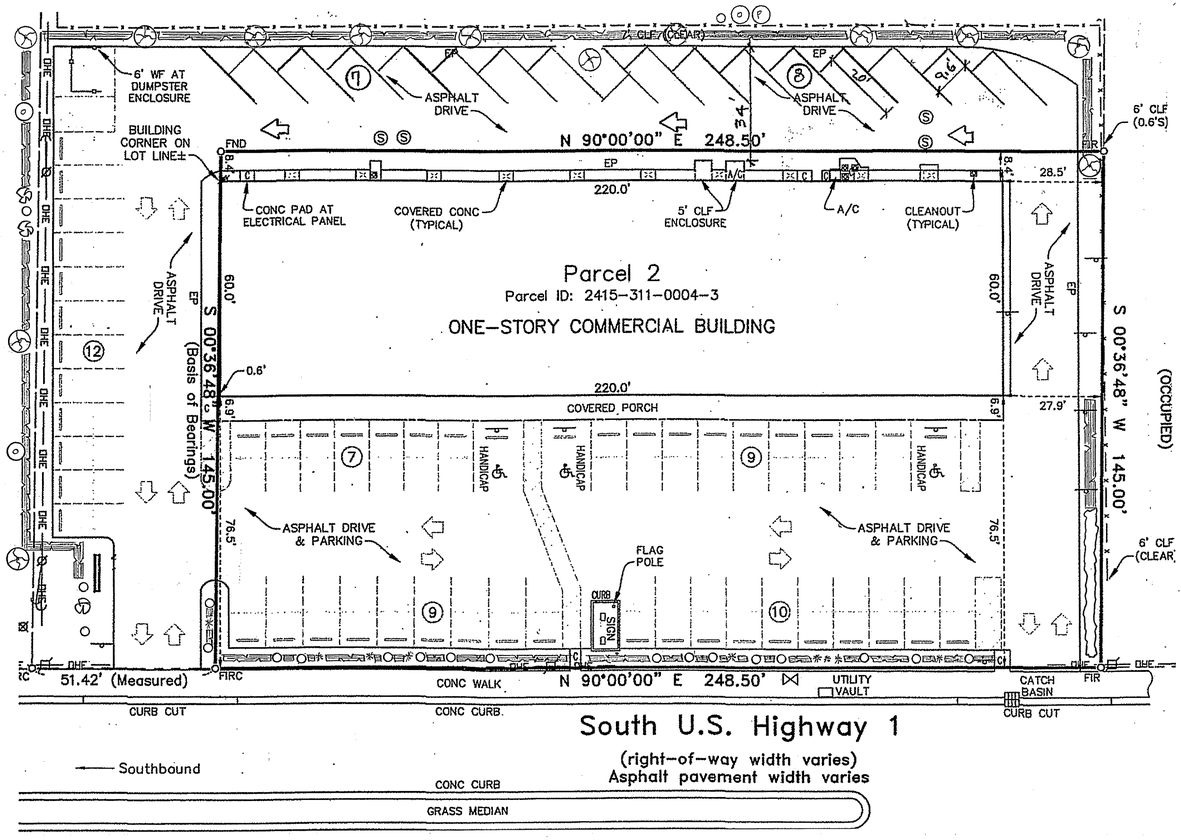


SHRUB/GROUND COVER PLANTING DETAIL

N.T.S.

PLANT LEGEND

- EXISTING CABBAGE PALM
- EXISTING FOUNTAIN GRASS
- EXISTING PINE
- EXISTING OAK
- EXISTING FLORIDA CHERRY
- PROPOSED OAK
- PROPOSED CABBAGE PALM
- PROPOSED FLORIDA CHERRY HEDGE



LANDSCAPE PLAN

1" = 20'

ARCHITECT

Architectonic Inc

806 DELAWARE AVENUE
FORT PIERCE, FLORIDA 34950
T: 772 460 7751
F: 772 460 4244

WWW.ARCHITECTONICINC.COM

STATE REG # AA26003348

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PROJECT

1717 ARCADE

CITY OF FT. PIERCE, FLORIDA

CLIENT

CONSULTANTS

REGISTRATION

MICHAEL J. SEAL, AIA
AR96898

REVISIONS

NO.	DATE	REVISION

KEY PLAN

SHEET TITLE / SHEET NUMBER

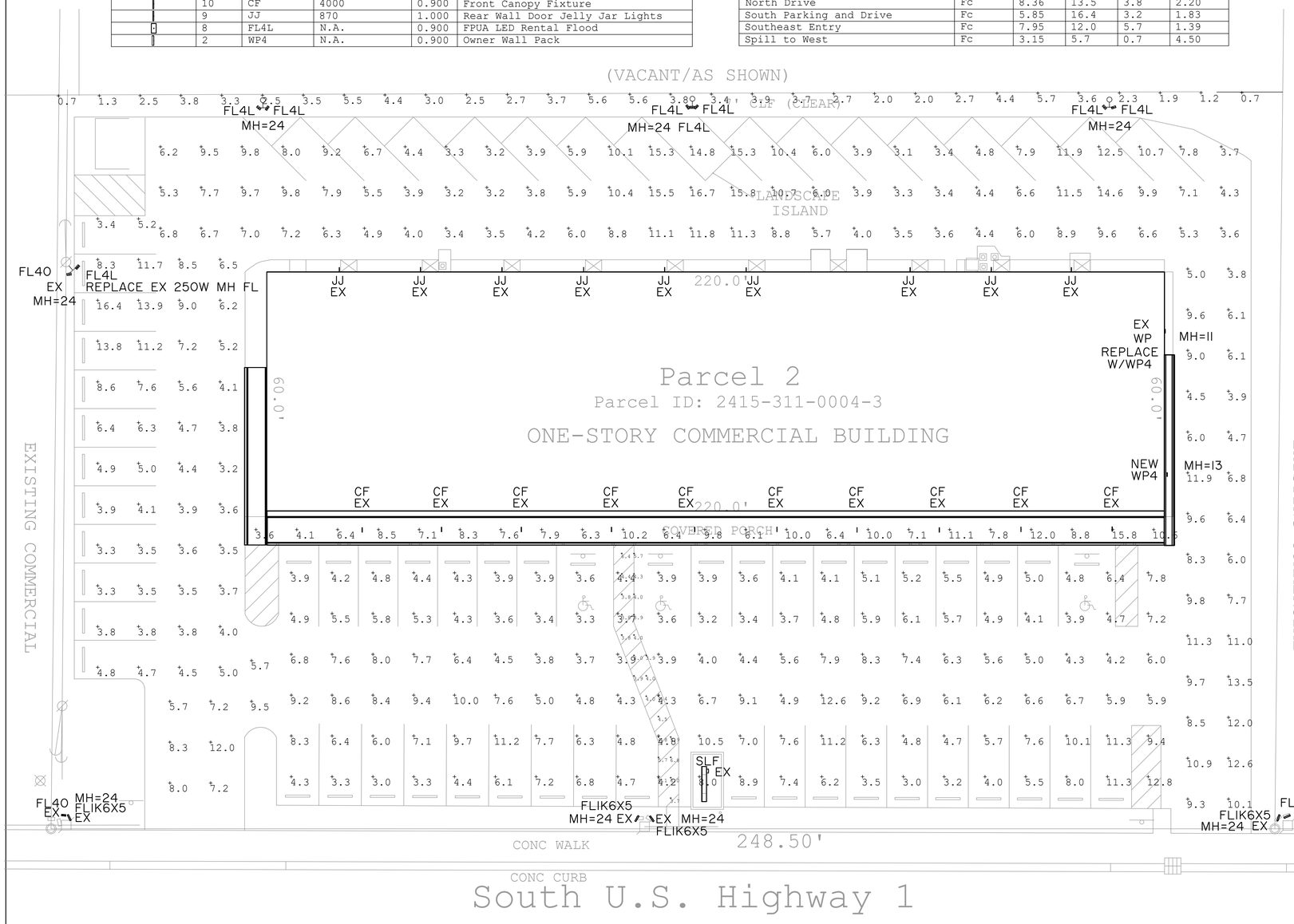
L-1 OF 1

PROJECT NUMBER 021005

DATE

Luminaire Schedule					
Symbol	Qty	Label	Lamp Lumens	LLF	Description
	2	FL40	32000	0.770	400W FPUA MH Rental Flood
	1	WP	N.A.	0.900	Customer LED Wallpack
	5	FL1K6X5	110000	0.950	1000W FPUA MH Rental Flood
	10	CF	4000	0.900	Front Canopy Fixture
	9	JJ	870	1.000	Rear Wall Door Jelly Jar Lights
	8	FL4L	N.A.	0.900	FPUA LED Rental Flood
	2	WP4	N.A.	0.900	Owner Wall Pack

Calculation Summary					
Label	Units	Avg	Max	Min	Avg/Min
Front Parking And Drive	Fc	5.94	12.8	3.0	1.98
Front Porch Sidewalk	Fc	8.34	15.8	3.6	2.32
Means of Egress Path	Fc	4.58	6.8	3.7	1.24
New West Parking and Drive	Fc	7.34	16.7	3.1	2.37
North Drive	Fc	8.36	13.5	3.8	2.20
South Parking and Drive	Fc	5.85	16.4	3.2	1.83
Southeast Entry	Fc	7.95	12.0	5.7	1.39
Spill to West	Fc	3.15	5.7	0.7	4.50

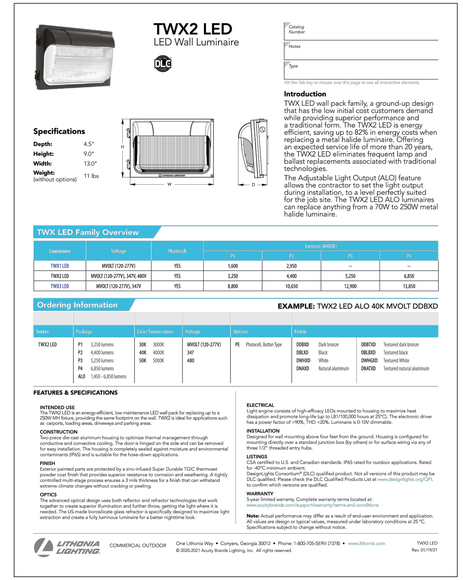


SITE PHOTOMETRIC ANALYSIS

SCALE NTS



FL4L



WP4

PHOTOMETRIC ANALYSIS NOTES:

THIS PARKING AREA IS WITHIN THE CITY OF FORT PIERCE, AND IS SUBJECT TO LIGHTING REGULATIONS FOUND IN CHAPTER 22, ARTICLE IV, SECTIONS 22-58 AND 22-60 OF THE FORT PIERCE MUNICIPAL CODE.

22-58
CODE REQUIRES THE INTERIOR SIDEWALKS SHALL BE PROVIDED WITH A MINIMUM AVERAGE OF ONE FOOT-CANDLE. THE INTERIOR PRIVATE FRONT PORCH SIDEWALK IS THE AREA ALONG THE EAST ELEVATION, WHICH HAS A AVERAGE ILLUMINATION OF 8.65 FC . THE LIGHTING ALSO COMPLIES WITH FBC 1008.2.3 MEANS OF EGRESS ILLUMINATION.

22-60
(1)b. CODE REQUIRES THE OFF-STREET PARKING IN THIS CASE, A BUILDING IN WHICH ALCOHOL IS SERVED, SHALL BE PROVIDED WITH A MINIMUM OF THREE FOOTCANDLES ON THE PAVEMENT. THIS PLAN PROVIDES A MINIMUM OF THREE FOOT-CANDLES ON THE PAVEMENT.
(2) THIS PLAN PROVIDES A MAXIMUM UNIFORMITY RATIO OF 2.38 TO 1, WHICH COMPLIES WITH CODE. UNIFORMITY OF SPILL IS NOT REQUIRED.
(3) LIGHTING CONTROL IS BY ASTRONOMIC TIME CLOCK FOR BUILDING OWNER FIXTURES AND PHOTOCELL FOR FPUAL RENTAL LIGHTS. THIS COMPLIES WITH CODE.
(4) IT IS PROPOSED THAT SPILL ONTO U.S. 1 IS EXISTING AND ACCEPTABLE. IT IS PROPOSED THAT ANY SPILL ONTO THE ADJACENT COMMERCIAL PROPERTIES IS NOT OBJECTIONABLE. IT IS PROPOSED THAT SPILL ONTO THE VACANT PROPERTY TO THE WEST IS NOT OBJECTIONABLE. THE NEW FLOODLIGHTS ARE POINTED AWAY FROM RESIDENTIAL WINDOWS.

THE LIGHTING PLAN USES EXISTING, ANNOTATED BY "EX", AND NEW FPUA RENTAL FLOODLIGHTS MOUNTED AT 24 FEET ON VARIOUS EXISTING AND NEW FPUA POLES ON SHOWN ON THIS PLAN, THE LIGHTING PLAN ALSO INCLUDES A NEW OWNER PROVIDED CANOPY FIXTURE ON THE NORTH SHEET METAL SOFFIT AND A REPLACEMENT WALL PACK NEAR THE WEST END OF THE NORTH ELEVATION. ALL NEW FIXTURE LIGHTING TECHNOLOGY IS LED WITH 4000K COLOR. NEW POLES ARE RENTED FROM AND ARE THE RESPONSIBILITY OF THE FPUA. NO CUSTOMER FIXTURES ARE POLE MOUNTED.

APP
CK
DR
REVISIONS
DATE
NO.

Fort Pierce Engineering, Inc.
Dependable Mechanical, Electrical & Plumbing Design
Reg. No. 28173
315 South 7th Street
Fort Pierce, FL. 34950
Phone: 772 672-4636
Fax: 772 672-4637

CLIENT:
ARCHITECTONIC INC.
806 DELAWARE AVE.
FORT PIERCE, FLORIDA
34950

PROJECT NAME:
1717 SOUTH US-1 ARCADE

PROJECT LOCATION:
1717 SOUTH US-1
FORT PIERCE, FLORIDA

ENGINEER SEAL

TIMOTHY C. TREWYN LICENSED No. 61580 STATE OF FLORIDA PROFESSIONAL ENGINEER

Timothy C. Trewyn, PE
P.E. No. 61580

THESE DOCUMENTS, ALONG WITH THE CONCEPTS AND OR DESIGNS PRESENTED HEREIN ARE, INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT OF FORT PIERCE ENGINEERING, INC FOR WHICH THEY WERE PREPARED. REUSE OR IMPROPER RELIANCE ON THESE DOCUMENTS WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY FORT PIERCE ENGINEERING, INC SHALL BE WITHOUT LIABILITY TO THE SAME. COPYRIGHT © 2021, FORT PIERCE ENGINEERING, INC. ALL RIGHTS RESERVED.

SHEET TITLE

SITE PHOTOMETRIC ANALYSIS

ISSUE DATE: 04-30-2021

DRAWN: TCT

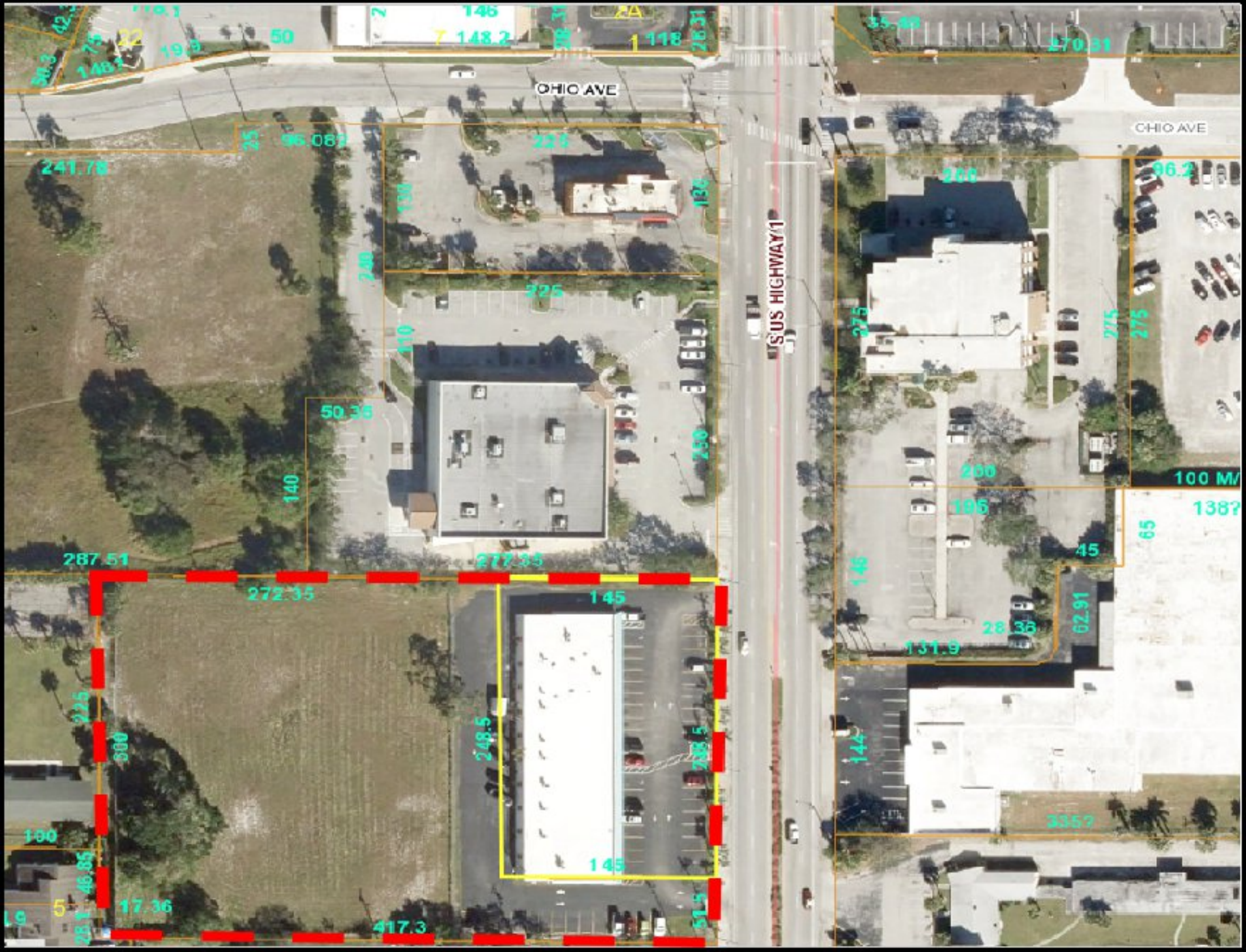
APPROVED: TCT

DRAWING NUMBER

E-1.2

SHEET 1 OF 1

21001-01



Legend

Subject Site

GC, General Commercial

RL, Low Density Residential

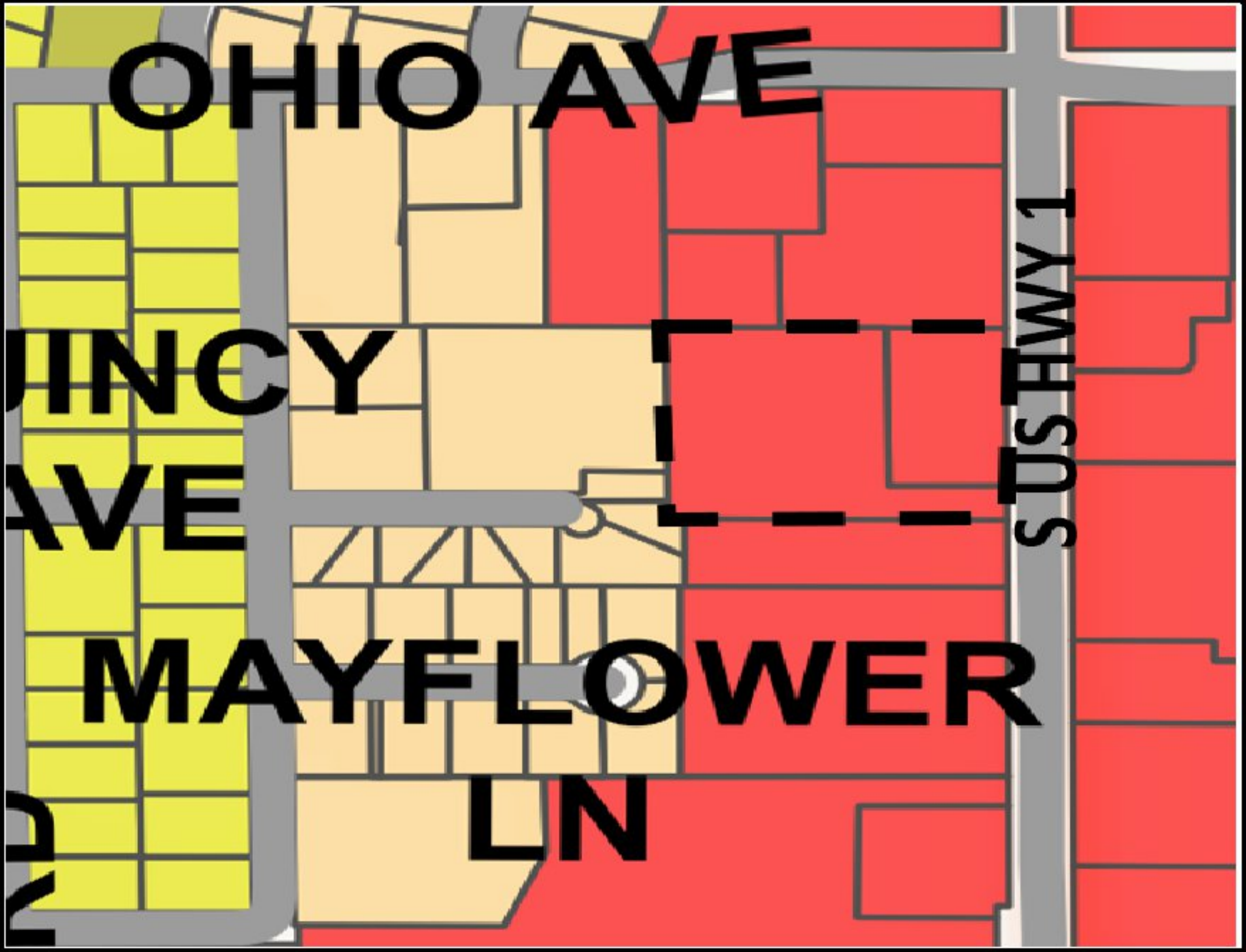
RM, Medium Density Residential

Location Map

Bamboo Palms Arcade

1717 S. US Highway 1

THE SUNRISE CITY FORT PIERCE Florida



Legend

Subject Site

GC, General Commercial

RL, Low Density Residential

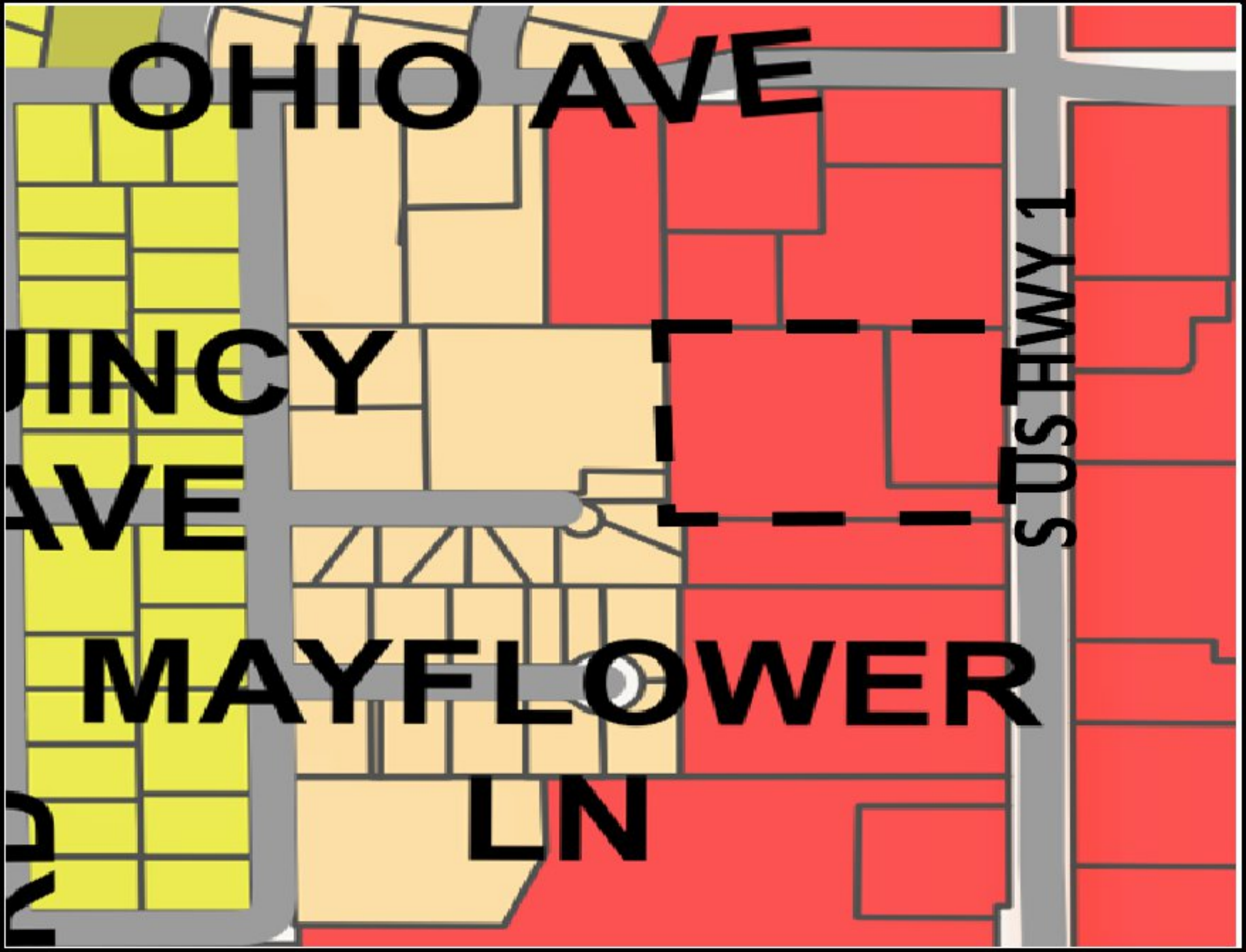
RM, Medium Density Residential

FLU Map

Bamboo Palms Arcade

1717 S. US Highway 1

THE SUNRISE CITY FORT PIERCE Florida



Legend

Subject Site

C - 4, General Commercial Zone

R-2, Single-Family Intermediate Density Zone

R-4, Medium Density Residential Zone

Zoning Map

Bamboo Palms Arcade

1717 S. US Highway 1

THE SUNRISE CITY FORT PIERCE Florida

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

June 16, 2021

Michael Menard, Architectonic, Inc.
806 Delaware Avenue
Fort Pierce, FL 34950

Subject: Bamboo Palms Arcade – 1717 S. US Highway 1 – TRC Comments & Conditions

Fort Pierce Planning Department

Comments & Conditions:

1. Per City Code 125-325. – Amusement Arcades and Arcade Amusement Centers.(2)(f): **Amusement arcades or arcade amusement centers shall provide bicycle racks within enough stalls to accommodate one bicycle for each five game machines located within the premises.** Bicycle racks shall be located as close as practical to the entrance of the facility and shall not be located in a manner that obstructs any entrances, exits, sidewalks, driveways, or parking areas. **Install a bicycle rack with a minimum of 4 bicycle spaces.**

2. Adhere to City Code Section 125 . 325. – Amusement Arcades and Arcade Amusement.

Fort Pierce Engineering Department

Please contact for comments.

Fort Pierce Utility Authority

FPUA W/WW Engineering: No comment. This location is presently a water and wastewater customer of FPUA. If service modification is required, please contact Lugey Dawson @ (772) 466-1600 ext. 3428.

FPUA Electric & Gas Engineering: No comment.

Fort Pierce Building Department

Please see the attached document from the Building Department

St. Lucie County Planning Department

No Comments received

St. Lucie County PW/Engineering

No Comments received

City Clerk Office

No Comments received

Code Enforcement

No Comments received

Fort Pierce Police Department

No comments at this time.

Officer Damian Spotts
Crime Prevention Practitioner
Fort Pierce Police Department.

St. Lucie County Fire District

Please see the attached document from the St. Lucie County Fire District

Florida Department of Transportation

No Comments received

St. Lucie County Transit Agency

No Comments received

St. Lucie County School Board

No Comments

THE SUNRISE CITY
FORT PIERCE
BUILDING DEPARTMENT Florida

BUILDING DEPARTMENT
TECHNICAL REVIEW COMMITTEE (TRC)
COMMENT FORM

Meeting Date: 6.17.21
Property Address: Conditional Use With No New Construction and Waiver of Distance – Bamboo Palms - 1717 S. US Highway 1

Please be advised that the project may trigger the requirements indicated below:

☑ 1. Building Official or his representative has no comment at the time of this meeting, but reserves submission of comments upon completion of the official plan review.

☐ 2. Pre-construction meeting with the City's Building Department is requested.

☐ 3. Any construction will need to meet the requirements of the Florida Building Code 7th Edition.

☐ 4. Means of egress is required.

☐ 5. Means of ingress is required.

☑ 6. Must meet the following Accessibility requirements:

- ☑ Accessible route
- ☑ Handicapped parking spaces
- ☑ Means of egress

☑ 7. Change of Use required

- ☑ to include a signed and sealed Life Safety Plan
- ☐ to include a signed and sealed detailed comprehensive building plan.

☐ 8. Property exists in Special Flood Hazard Area. All Federal and State requirements shall be addressed.

☐ 9. Flood Development Permit required.

☑ 10. Building Permit required.

☐ 11. Signed and sealed construction drawings required.

☐ 12. Will need to meet the Fire Code.

☐ 13. Sprinkler system is required.

☐ 14. Smoke alarm system is required.

☐ 15. Other

Additional Comments/Requirements:

Building Official's or Representative's Signature _____ Date: 6/15/21

THE SUNRISE CITY
FORT PIERCE
Florida
ENGINEERING
DEPARTMENT

TO : Vennis Gilmore, Planner

FROM : John R. Andrews, P.E., City Engineer

RE : Conditional Use & Waiver of Distance – Bamboo Palms Arcade – 1717 S US Hwy 1

RECEIVED
JUN 15 2021
CITY OF FORT PIERCE
PLANNING & ZONING

DATE : June 15, 2021

This is to advise you that we have completed the review of the following documents as received by this office on June 09, 2021:

- [x] CU & Waiver of Distance Application
- [ ] Test Reports & Related Documents
- [ ] Record Drawings
- [ ] Clearances from all applicable Local, State and Federal Agencies
- [ ] Building Construction Plans
- [ ] Certificate of Completion
- [ ] Permits from applicable Local, State & Federal Agencies

Based on our reviews and appropriate site final inspection, we

- [ ] Recommend
- [x] Do Not Recommend

- [x] CU & Waiver of Distance
- [ ] Building Permit
- [ ] C/O

Developer, Owner, Engineer, Contractor and other members of the Development Team must be aware, the above recommendation is based only on the construction requirements of the engineering plans and other engineering documentation approved by this department. The Development Team shall be responsible for the compliance with other City department requirements and all approved documents, as well as Local, State and Federal regulations. The development requirements for this project may necessitate additional construction requirements that are not subject to this department's review for approval.

- [x] See attached for comments

100 NORTH US 1, FORT PIERCE, FLORIDA 34950 • CITYOFFORTPIERCE.COM • TEL: 772.467.3000 • FAX: 772.460.6847

ENGINEERING COMMENTS:

1. The proposed parking in the rear of the property shall require bumper rails in accordance with the City of Fort Pierce Ordinance Section 125-315(C-7).
2. The proposed parking in the rear of the property will change the traffic pattern of the parking lot. Do Not Enter signs shall be required at the rear southwest and northwest corners of the commercial building.
3. In review of the provided Boundary Survey, the proposed landscape for the southern portion of property is situated on the neighboring property. All landscaping shall be situated on the existing property boundaries.

JRA/VB/vb

100 NORTH US 1, FORT PIERCE, FLORIDA 34950 ▪ CITYOFFORTPIERCE.COM ▪ TEL: 772.467.3000 ▪ FAX: 772.460.6847

ST. LUCIE COUNTY FIRE DISTRICT
Community Risk Reduction Division
Office of the Fire Marshal

Telephone: **(772) 621-3322**
Fax: **(772) 621-3604**

BUREAU OF FIRE PREVENTION

SITE PLAN REVIEW

TO: Site Plan Applicant

SITE PLAN: Bamboo Palms 1717 S. US 1

REVIEW DATE: 6/7/2021

PLANNER: GILMORE

REVIEWED BY: Captain Wayne Boyer

Site Plan Approved: _____

Site Plan Approved with conditions: ___X____

Site Plan Approval withheld pending written acknowledgement of conditions: _____

Site Plan Rejected: _____

The Following Revisions Are Necessary:

1. **Please submit a completed application for Development/Site Plan Review (St. Lucie County Fire District Development & Site Plan Review Application). This form is available on-line at https://www.slcfd.com**
2. **Fire District review fees are due at the time of submittal. An abbreviated fee schedule is included on the application form.**
3. **Please send the Fire District electronic plans for the site and buildings.**
4. **A separate review and permit is required for Underground Fire Mains connected to standpipes or sprinkler systems.**
5. **Be advised, although there is no new construction planned for this project it will be subject to a New Business Inspection and possibly a Change of Occupancy Review.**

ST. LUCIE COUNTY FIRE DISTRICT
Community Risk Reduction Division
Office of the Fire Marshal

Telephone: **(772) 621-3322**
Fax: **(772) 621-3604**

The project will have to meet all of the Occupancy requirements at that time to be in compliance with the currently adopted version of the Florida Fire Prevention Codes.

Planning Board **7. f.**

Meeting Date: 07/14/2021

Information

REQUESTED ACTION

Site Plan and Conditional Use - Ocean Village Clubhouse - 2400 S. Ocean Drive

LOCATION

2400 S Ocean Drive

RESPONSIBLE STAFF

Vennis Gilmore, Senior Planner

RECOMMENDATION

The presented Site Plan, Design Review, Conditional Use, and related new construction adhere to the requirements of the City Land Development Code and guidelines of the City's Comprehensive Plan pertaining to the requested fueling station activity the subject requests. The requested Site Plan, Design Review, and Conditional Use Applications are consistent with City Code, the Comprehensive Plan, and does not adversely affect the public health, safety, convenience and general welfare; Staff recommends that the City Commission **APPROVE** the requested applications.

Attachments

Staff Report
Application & Supporting Documents
Location Map
FLU Map
Zoning Map
TRC Comments

Form Review

Form Started By: Vennis Gilmore Started On: 07/07/2021 05:00 PM

Final Approval Date: 07/08/2021

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

TO:	Members of the City of Fort Pierce Planning Board
THROUGH:	Jennifer Hofmeister-Drew, AICP, LCAM, Planning Director
FROM:	Vennis Gilmore, Senior Planner
RE:	**Site Plan, Design Review, & Conditional Use - Redevelopment of Ocean Village Clubhouse** **2400 S. Ocean Drive**
BOARD DATE:	July 14, 2021

STAFF REPORT

Owner:	Ocean Village POA, Inc. 2400 S. Ocean Drive Fort Pierce, FL 34949
Representative:	Schulke, Bittle & Stoddard, LLC c/o Jodah B. Bittle, P.E. 1717 Indian River Boulevard, Suite 201 Vero Beach, FL 32960
Applicant's Request:	Approval of Site Plan, Design Review, and Conditional Use Applications to construct a 6,426 sq. ft. clubhouse with racquet courts.
Location(s):	2400 S. Ocean Drive
Parcel ID:	2507-321-0001-000-5
Future Land Use:	Hutchinson Island Residential (HIR)
Current Zoning:	R4-A, Hutchinson Island Medium Density Residential Zone

Surrounding FLU:

North	East	South	West
HIR	HIR	HIR	HIR

Surrounding Zoning:

North	East	South	West
R-4A	R-4A	R-4A	R-4A

Utilities: FPUA

Staff Analysis:

Request

In accordance with Sections 125-313, 125-314, 125-237 and 125-37 of the City Code, the applicant is requesting the review and approval of Site Plan, Design Review, & Conditional Use Applications to construct a 6,426 square foot clubhouse for the Ocean Village Community located at 2400 South Ocean Drive. Ocean Village is a gated planned community that is nestled on approximately 120 acres with approximately 3,500 feet of beach frontage. Ocean Village offers 24-hour security; a Par-39-Hole Executive Golf Course; Tennis Courts; Heated Swimming Pools; Jacuzzi; Sauna; Fitness Center; Card Room; and a Library with wi-fi. The proposed clubhouse will replace the existing deteriorating clubhouse canopy of approximately 3,455 square feet.

The proposed site improvements include the removal of the existing building, existing asphalt, and the construction of the new 6,426 square foot clubhouse with modifications to parking, lighting, water, and sewer to serve the new building. A Conditional Use application is required for the construction of the proposed racquet court coverings to be built within the Coastal Construction Control Line (CCCL). Per City Code Section 125-321; No construction is permitted on the seaward side of the coastal construction control line in any zoning district except for navigational structures, private and semi-public water-dependent recreational uses and water-dependent public uses. Any other construction shall be approved in the form and manner provided for by Article V of this chapter and otherwise shall conform with all other applicable ordinance requirements. The coastal construction control line is that certain line designated by the department of environmental protection or its successor agency in accordance with F.S. § 161.053. In compliance with City Code Section 123-37 General Landscaping Requirements; landscaping improvements are included in the applicant's site plan.

The property is located at the northwest corner of the Okeechobee Road and McNeil Road intersection. The site is surrounded by R-4A, Hutchinson Island Medium Density condominiums and single-family homes to the north, south, east, and west. The subject parcel is approximately 40.02 acres.

Future Land Use & Zoning

The Hutchinson Island Residential (HIR) designation is intended for parcels that are best suited for residential development on Hutchinson Island. This future land use category allows single-family detached and attached units, duplexes and multifamily residences at densities ranging up to eight (8) dwelling units per acre. Limited public uses and commercial uses that are compatible with the surrounding development shall also be allowed.

The subject site is located within the Hutchinson Island Medium Density Residential Zone district (R-4A), which was established due to Hutchinson Island being a sensitive barrier island that presents development considerations which are either unique to the area or are of added concern, such as environmental fragility, beach erosion, and hurricane evacuation.

Site Plan
The applicant is proposing to redevelop Tract A of the Wal-Mart commercial area parcels by constructing a 10,750 square foot commercial retail plaza. The floor plan consists of three (3) commercial spaces for lease, two (2) spaces are proposed to be occupied by a medical office and the third to be occupied by a dental office.

The applicant intends to demolish the existing structure upon site plan and design review approval. The applicant proposes to maintain existing access to the site and the existing access to the Wal-mart parking lot and the applicant also intends to generally maintain the existing parking configuration on the property.

The site plan includes proposed concrete walkways connecting pedestrians from the sidewalk along McNeil Road and providing access to the adjacent Wal-mart parking lot and to its refuse collection area. The site plan also includes a new dumpster enclosure with pedestrian access and a pedestrian gate located to the far-north of the parking lot.

Design Review
The proposed facility will be a one (1) story building with approximately 6,426 square feet consisting of classic Florida cracker style architecture. The building will consist of a pitched metal roof with the addition of a cupola crown. The proposed color scheme with be a lily white. The structure will stand out for its attractiveness and its compatibility. The applicant proposes to build a structure that compliments the neighborhood, as well as has a positive impact on the surrounding community.

Landscaping
The plant schedule that the applicant is proposing consists of a total of 29 trees. The applicant is proposing to remove, replace, and mitigate trees, plant shrubs and install irrigation. The plans will involve the following:

- Trees to be relocated are (4) Sabal Palms, and (2) Vetchia Merrilli.
- Nine (9) Sabal Palms will be mitigated.
- Trees to be planted include (8) Sabal Palms, (2) Coccoloba Unifera, and (4) Conocarpus Erectus.
- Shrubs proposed for the site include 218 Chrysabalanus Icacao, 58 Tripsacum Floridana, 52 Podocarpus', and 74 Schefflera Arboricola.
- New Irrigation will be installed.

Technical Review Committee
All affected departments have reviewed the proposed Conditional Use with regards to the requirements of the City Code. Findings from the review by corresponding departments and the associated responses by the applicant are provided.

Staff Recommendation:
The presented Site Plan, Design Review, Conditional Use, and related new construction adhere to the requirements of the City Land Development Code and guidelines of the City's Comprehensive Plan pertaining to the requested fueling station activity the subject requests. The requested Site Plan, Design Review, and Conditional Use Applications are consistent with City Code, the Comprehensive Plan, and does not adversely affect the public health, safety, convenience and general welfare; Staff recommends that the City Commission **APPROVE** the requested applications.

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

DEVELOPMENT REVIEW

Property address or Location: Ocean Village - 2400 S. Ocean Drive

Parcel ID #(s): 2507-321-0001-000-5

Project description: Demolition of existing clubhouse; Add new 6,426 sf clubhouse with racquet courts

Ocean Village POA, Inc.	Schulke, Bittle & Stoddard, LLC c/o Jodah B. Bittle, P.E.
Property Owner(s)	**Applicant/Representative, Title, Company**
2400 S. Ocean Drive	1717 Indian River Boulevard, Suite 201
Street Address	Street Address
Fort Pierce FL 34949	Vero Beach FL 32960
City State Zip	City State Zip
	772-770-9622
Phone Number	Phone Number
	jbittle@sbsengineers.com
Email Address	Email Address

Property Owner(s) Acknowledgements: *- This application will not be considered complete without the signature of all property owners of record, which shall serve as an acknowledgement of the submission of this application. The property owner's signature below shall also authorize the Applicant (if other than the property owner) and/or Representative to act in his/her behalf for the purposes of seeking approval for the application described herein. The undersigned consents to inspection and photographing of the subject property by the Planning staff for purposes of consideration of this Application and/or presentation to the Planning Board and City Commission.*

Norman Spector, General Manager
Property Owner(s) Signature(s) For and on behalf of Ocean Village P.O.A.

STATE OF FLORIDA -- COUNTY St. Lucie

The foregoing instrument was acknowledged before me this 25 day of May, 2021, by Norman Spector who is personally known to me or has produced _____ as identification.

Kimberly R Saucier
Signature of Notary

Notary Public State of Florida
Kimberly R Saucier
My Commission HH 007601
Expires 06/08/2024

INTAKE MEETINGS ARE REQUIRED FOR ALL SUBMITTALS. CALL (772) 467-3729

TO BE COMPLETED BY STAFF

Zoning	Future Land Use	Total Acres	Historic District	Historic Designation
				Contributing Individual Non-Contributing None

Pre-Application Meeting Date_____
Intake Planner_____
Planner Assigned_____
Approved By_____ Date _____
Comments_____

Fees_____ Control #_____ B. Permit #_____

Intake Date Stamp

❑ DEVELOPMENT REVIEW

General Information

- ❑ Incomplete application packets cannot be accepted.
- ❑ Site Plan approval is valid for one (1) year following City Commission approval. In order to maintain site plan approval, vertical improvements, permitted by the Building Department must commence prior to the 12-month expiration date, and building permits must be maintained until site plan is completed, per plans, or approval shall lapse.

Choose Application Type:

Application Type		
■ Site Plan	☑ Conditional Use with New Const.	❑ Major Amendment
❑ Conceptual Development Plan		❑ Minor Amendment

Site Information:

Non-Residential: Proposed Sq. Ft.: 6,426 Residential: Proposed Units:_____

Surrounding Uses: *(i.e. single family home, retail, industrial, etc.)*

North	South	East	West
Condominium	Condominium	Beach	Condominium

Application Outlook



Site Plan submittal requirements:

Submit one (1) original & thirteen (13) hard copies and one (1) CD of the following. Additional copies will be required of subsequent submittals.

- ❑ Complete notarized application
- ❑ Warranty Deed
- ❑ SLC Property Record Card
- ❑ Statements of ownership & control of proposed development. Statement describing in detail: character & intended use.
- ❑ General location map (see Section 22-58.d.2)
- ❑ Survey (see Section 22-58.d.3)
- ❑ Site Plan (see Section 22-58.d.4)
- ❑ Landscaping Plan (see Section 22-187)
- ❑ Storm Drainage Plan (see Section 22-58.d.6)
- ❑ Environmental Impact Report
- ❑ Beach/Dune System protection plan, if applicable (see Section 22-58.d.7)
- ❑ Lighting Plan (see Section 22-58.d.8)
- ❑ Design Review submittals (see Design Review application)
- ❑ Traffic Impact Report
- ❑ Concurrency Review submittals (see Concurrency Review application)

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

Design Review

Property address or Location: Ocean Village - 2400 S. Ocean Drive
Parcel ID #(s): 2507-321-0001-000-5
Project Description: Demolition of existing clubhouse; Add new 6,426 sf clubhouse with racquet courts

Ocean Village POA, Inc.	Schulke, Bittle & Stoddard, LLC c/o Jodah B. Bittle, P.E.
Property Owner(s)	Applicant/Representative, Title, Company
2400 S. Ocean Drive	1717 Indian River Boulevard, Suite 201
Street Address	Street Address
Fort Pierce FL 34949	Vero Beach FL 32960
City State Zip	City State Zip
	772-770-9622
Phone Number	Phone Number
	jbittle@sbsengineers.com
Email Address	Email Address

Property Owner(s) Acknowledgements: *- This application will not be considered complete without the signature of all property owners of record, which shall serve as an acknowledgement of the submission of this application. The property owner's signature below shall also authorize the Application (if other than the property owner) and/or Representative to act in his/her behalf for the purposes of seeking approval for the application described herein.*

Norman Spector, General Manager
Property Owner(s) Signature(s) For and on behalf of Ocean Village P.O.A.

STATE OF FLORIDA -- COUNTY St. Lucie
The foregoing instrument was acknowledged before me this 25 day of May, 2021, by Norman Spector who is personally known to me or has produced _____ as identification.

Kimberly R Saucier
Signature of Notary

Notary Public State of Florida
Kimberly R Saucier
My Commission HH 007601
Expires 06/08/2024
(seal)

TO BE COMPLETED BY STAFF

Zoning	Future Land Use	Total Acres	Historic Districts	Historic Designation

Pre-Application Meeting Date _____ Fees _____ Control # _____ B. Permit _____
Intake Planner _____
Planner Assigned _____
Approved _____ Date _____
Comments _____

Intake Date Stamp

Design Review Application Checklist
(City Code of Ordinances 22-59)

Submittal for Administrative Approval

a. A survey (1" = 30' minimum scale) of property lines, existing topography and the location of trees meeting the tree protection regulations of section 22-194, location of bordering streets and, if applicable, wetlands and beaches.
b. A site analysis study to include a discussion of specimen trees and other natural vegetation, access, significant topography, wetlands, buffers, setbacks, views, orientation, the surrounding built environment and other site features that may influence design elements.
c. A draft written narrative describing the design intent of the project, its goals and objectives and how it reflects the site analysis study results.
d. Context photographs of neighboring uses and architectural styles.
e. Photographs and/or drawings of architectural buildings or objects that serve as a precedent for the proposed building design. Models should be taken from local exemplary buildings, either existing or demolished. Documentation of such buildings is available in the city's planning department.
f. Photographs of all existing structures located on the property. If existing structures on the property are more than fifty (50) years of age, documentation of these structures with data from the Florida Master Site File form is also required.
g. Conceptual site plan (to scale) showing proposed location of all buildings, structures, parking areas, signs and landscaping.
h. Landscape plan, at the same scale as the site plan. The planning director or designee may request enlarged plans of detailed planting areas. Planting schedule with sizes of proposed plantings must be included.
i. Accurate color rendering of proposed signs showing dimensions, type of lettering, materials and actual color samples that demonstrates cohesiveness with the project design.
j. Exterior elevations showing architectural character, external architectural features and streetscape of the proposed development, including materials, colors, shadow lines and landscaping. The street elevation shall encompass the entire proposed project and generally identify the major elements of the adjacent two (2) properties on either side of the site. If the adjacent properties are vacant or underutilized, a diagram shall be provided that identifies the mass and form that is allowable under current zoning. If the street elevation must be drawn at such a scale as to render architectural details of the building unreadable, drawings of individual buildings at a larger scale should be provided as well.
k. Design review concurrent with conceptual development plan procedure according to subsection 22-58(e) is also available.

Submittal for Board Approval

a. A written narrative describing how the project conforms to administrative approval and design review guidelines of this section.
b. A final site plan meeting the requirements of section 22-58
c. A final site lighting plan that meets the requirements of subsection 22-58(d)(8).
d. A final landscape plan that meets the requirements of Article XII, Landscaping and Trees.
e. Final floor plans and elevation drawings (1/8" = 1'-0" minimum scale), as detailed under administrative approval, showing exterior building materials and colors with architectural sections and details to adequately describe the project.
f. A color board (11"x17" maximum) containing actual color samples of all exterior finishes, keyed to the elevations, and indicating the manufacturer's name and color designation.

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

CONCURRENCY
CAPACITY ANALYSIS

I. Site Data:

	Existing Use	Future Land Use	Zoning
North	Condominium	HIR	R-4A
South	Condominium	HIR	R4-A
East	N/A - Beach	N/A - Beach	N/A - Beach
West	Condominium	HIR	R4-A

	Future Land Use	Zoning Classification	Maximum Intensity Residential: Dwelling Units per Acre Other: Square Footage	Total Acreage	Flood Zone
Current	HIR	R-4A	8 units / Acre	1.73	X, VE-8, & AE-4
****Proposed**	HIR	R-4A	N/A - 6,426 sf	1.73	N/A

II. Public Facilities Information:

A. Potable Water:	
Average Use	Residential: 100 gallons per day per person (du x 2.6= persons x 100 gpd = demand) Other: 0.125 gallons per day per square foot 6,426 sf
Demand Analysis	Maximum 803
Current Zoning/FLU	Total gallons per day 803
**Proposed Zoning/FLU	Total gallons per day 803
**Change in Demand	Total gallons per day 803

B. Wastewater:	
Average Use	Residential: 100 gallons per day per person (du x 2.6= persons x 100 gpd = demand) Other: 0.1 gallons per day per square foot 6,426 sf
Demand Analysis	Maximum 643
Current Zoning/FLU	Total gallons per day 643
**Proposed Zoning/FLU	Total gallons per day 643
**Change in Demand	Total gallons per day 643

C. Parks and Recreation (Residential Classifications Only): N/A
(Du x 2.6 = persons + 44,227 = population /LOS)

Park Type	LOS	Existing Population Park Demand	Proposed Population Park Demand	Change in Demand
Regional	20 acres per 1,000 people			
Urban District	5 acres per 1,000 people			
Community	2.5 acres per 1,000 people			
Neighborhood	1.36 acres per 1,000 people			

D. Public Schools (Residential Classifications Only): N/A
Single Family: (du x 0.405 = students/70% K-8/30% High) N/A
Multi-family: (du x 0.207 = students/70% K-8/30% High)

	K-8	High
School Name	N/A	N/A
City	N/A	N/A
Distance	N/A	N/A
Current Zoning/FLU Enrollment Demand	N/A	N/A
****Proposed Zoning/FLU Enrollment Demand**	N/A	N/A
****Change in Demand**	0.00	0.00

E. Solid Waste: Residential (2 yard serves 15 units, 4 yard serves 30 units, 6 yard serves 45 units, 8 yard serves 60 units)

Demand Analysis	Maximum
Current Zoning/FLU	2
****Proposed Zoning/FLU**	2
***Change in Demand**	2

F. Stormwater:
Potential increase in volume discharged due to increased impervious coverage, reduced groundwater seepage or loss of surface water storage impacting Adopted LOS of 25-year 3-day storm Pre vs. Post Runoff (Storm sewers to convey 5 year- 1 day storm event; Canals to convey 3 year – 1 day storm event)

Impact	No volume discharge increase proposed

III. Transportation Analysis: *Complete ITE Trip Generation Form (Attached)*

G. Transportation Analysis: Complete ITE Trip Generation Data Form Most recent ITE Code for use; HCM Roadway Capacity		
	AADT	**AM/PM Peak Hour Trips**
Demand Analysis	Maximum	Maximum
Current Zoning/FLU	132	10 / 16
****Proposed Zoning/FLU**	132	10 / 16
***Change in Demand**	Trips 132	Trips 10 / 16
Impact to Capacity	De Minimus	

IV. Project Description

PHASING
Is this project (phase) part of a larger project? ☐Yes ☑No
If yes, enumerate each phase, the number of units or square footage in each phase and beginning/completion date.
Total Project: Residential Units: Single Family: Multifamily:
Non-residential (square footage): 6,426 sf
Mixed-use (describe use):
(If this is a single phase project, name it Phase I – Total)

RESIDENTIAL DATA					
Type	**Phase**	**Number of Units**	**Acres**	**Expected beginning date**	**Expected completion date**
Single-family, detached	N/A	N/A	N/A	N/A	N/A
Single-family, attached	N/A	N/A	N/A	N/A	N/A
Multi-family	N/A	N/A	N/A	N/A	N/A
Other (specify)	N/A	N/A	N/A	N/A	N/A

NON-RESIDENTIAL DATA					
Type(s) specify	**Phase**	**Square footage**	**Acres**	**Expecting beginning date**	**Expected completion date**
New clubhouse, addition to existing tennis court, sidewalks and additional parking	1	6,426	1.73	11/21	11/22
Two additional tennis courts and sidewalk connection from clubhouse to tennis courts	2	N/A	1.73	1/24	1/25

A. Indicate whether the proposed project will be eliminating any existing recreational facilities. If yes, detail the number and type being eliminated. ☑Yes ☐No

B. 1. Does this application involve demolition or re-use of any structure(s)? ☑Yes ☐No
If yes, what is the size of the structure(s) to be demolished or re-used? 2,370

2. What is the current use of the structure to be demolished or re-used? Clubhouse

3. Are you claiming trip credits for the demolition or re-use of a structure(s) at the site? ☑Yes ☐No
If yes, provide estimates of credits for each previous use at the site. (Attach sheet with calculations)

C. Exemptions Requested:

** Complete section if requesting a change in zoning, future land use, or expanding

ocean village
property owners association, inc.
2400 S. Ocean Drive, Hutchinson Island, Florida 34949-8098
Administrative Offices
(772) 489-0300
Facsimile
(772) 468-1037
Rentals & Resales Office
(772) 489-6100

May 24, 2021

City of Fort Pierce
Planning & Zoning Department
100 N. U.S. Highway 1
Fort Pierce, FL 34950

To Whom It May Concern:

Ocean Village POA is looking to replace their deteriorating clubhouse with canopy of approximately 3,455 square feet with a new 6,400 square foot, under air building.

The new clubhouse will have a large meeting room to host social events for Ocean Village residents. The building will also include a fitness room, small kitchenette and restrooms.

Thank you for your help and cooperation with this matter.

Sincerely,
Ocean Village POA

Michelle Franklin, CFA -- Saint Lucie County Property Appraiser -- All rights reserved.

Property Identification

Site Address: Southpointe DR
Sec/Town/Range: 07/35S/41E
Parcel ID: 2507-321-0001-000-5
Jurisdiction: Fort Pierce

Use Type: 7700
Account #: 33901
Map ID: 25/07S
Zoning: HI Medium

Ownership

Ocean Village POA Inc

2400 S Ocean Dr
Fort Pierce, FL 34949



Legal Description

7 35 41 GOVT LOT 3-LESS THAT PART ASSD IN SURFSIDE-UNIT 2 AND LESS A1A R/W AND LESS TO CITY OF FP AS IN OR 237-127 AND LESS THAT PART ASSD IN CATAMARAN I- AND GOVT LOT 4- LESS A1A R/W- AND GOVT LOT 5 - LESS THAT PART GOVT LOTS 3, 4 AND 5 ASSD IN CAPSTAN I AND LESS THAT PART GOVT LOTS 3 AND 4 ASSD IN CORAL I AND LESS THAT PART GOVT LOT 5 ASSD AS BEACH CLUBHOUSE SITE AND LESS THAT PART GOVT LOT 4 ASSD IN OCEAN VILLAS I AND LESS THAT PART GOVT LOTS 4 AND 5 ASSD IN OCEAN VILLAS II AND LESS THAT PART GOVT LOTS 4 AND 5 ASSD IN OCEAN VILLAS III AND LESS THAT PART GOVT LOT 3 ASSD IN BEACHTREE I CLUSTER AND LESS THAT PART GOVT LOTS 3 AND 4 ASSD IN GOLF VILLAS AND ASSD IN BEACHTREE II AND LESS THAT PART GOVT LOT 3 ASSD IN SEASCAPE I AND LESS THAT PART GOVT LOT 4 ASSD IN CATAMARAN II AND LESS THAT PART OF GOVT LOT 5 ASSD IN SEASCAPE II AND LESS OCEAN HOUSE AS IN OR 692-2012 AND LESS AS IN OR 692-2011 AND LESS THAT PART OF GOVT LOT 1 ASSD IN OCEANHOUSES AT SOUTHPOINTE AS IN OR 1668-205 AND LESS THAT PART GOVT LOT 4 MPDAF:FROM SW COR OF SEC RUN S 89 17 30 E ALG S LI OF SEC 70.01 FT TO E R/W LI OF A1A,TH N 00 00 00 W ALG E R/W LI 390.08 FT TO POB,TH N 00 00 00 W ALG E R/W LI 294.65 FT,TH N 89 47 03 E 175.03 FT,TH N 15 51 52 E 89.55 FT TO CURVE CONC SE,R OF 73 FT,TH NELY ALG ARC 100.79 FT TO CURVE CONC NW,R OF 51 FT,TH NELY ALG ARC 61.39 FT TO CURVE CONC W,R OF 22 FT,TH NWLY ALG ARC 31.50 FT TO S R/W LI OF CLIPPER BLVD,TH N 90 00 00 E ALG S R/W LI 49.71 FT TO CURVE CONC N,R OF 724.04 FT,TH ELY ALG ARC AND S R/W LI 10.42 FT,TH S 15 52 03 W 529.09 FT,TH N 83 58 20 W 253.63 FT TO POB (40.02 AC) (OR 1955-808, 815)

Total Areas

Finished/Under Air (SF):	8,421
Gross Sketched Area (SF):	10,612
Land Size (acres):	40.02
Land Size (SF):	1,743,271

Current Values

Just/Market Value:	$637,400
Assessed Value:	$423,715
Exemptions:	$423,715
Taxable Value:	$0

Building Design Wind Speed

Occupancy Category	I	II	III & IV
Speed	140	160	170

Sources/links:

Property taxes are subject to change upon change of ownership.

- **Past taxes are not a reliable projection of future taxes.**
- **The sale of a property will prompt the removal of all exemptions, assessment caps, and special classifications.**

Taxes for this parcel: SLC Tax Collector's Office
Download TRIM for this parcel: Download PDF

Sale History

Date	Book/Page	Sale Code	Deed	Grantor	Price
Apr 23, 2004	1955 / 0815	XX02	SP	R C R Development Co Inc,	$3,100,000
May 6, 1998	1144 / 0493	XX01	WD	OCEAN ESTATES INC	$2,100,000
Feb 6, 1995	0940 / 1266	XX02	WD	FEDERAL DEPOSIT INSURANCE CORP	$840,800
May 7, 1990	0692 / 2009	XX01	WD		$6,500,000

Building Information (1 of 3)

Finished Area: 2,447 SF

Gross Sketched Area: 2,827 SF

Exterior Data

View:
Building Type: LROF
Grade: Y_D
Story Height: 1 Story

Roof Cover: Dim Shingle
Year Built: 1973
Effective Year: 1976
No. Units: 1

Roof Structure: Hip
Frame:
Primary Wall: CB Stucco
Secondary Wall:

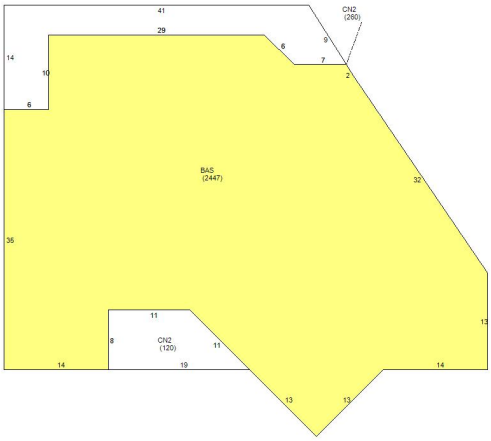
Interior Data

Bedrooms: 0
Full Baths: 0
Half Baths: 0
A/C %: 100%

Electric: MAXIMUM
Heat Type: FrcdHotAir
Heat Fuel: ELEC
Heated %: 100%

Primary Int Wall:
Avg Hgt/Floor: 0
Primary Floors: Tile-Ceramic
Sprinkled %: 100%





Sketch Area Legend

Sub Area	Description	Area	Fin. Area	Perimeter
BAS	BASE AREA	2447	2447	224
CN2	CANOPY	380	0	171

Building Information (2 of 3)

Finished Area: 2,899 SF

Gross Sketched Area: 3,770 SF

Exterior Data

View:
Building Type: HB
Grade: B
Story Height: 1 Story

Roof Cover: Enam Metal
Year Built: 1974
Effective Year: 1976
No. Units: 1

Roof Structure: Hip
Frame:
Primary Wall: CB Stucco
Secondary Wall:

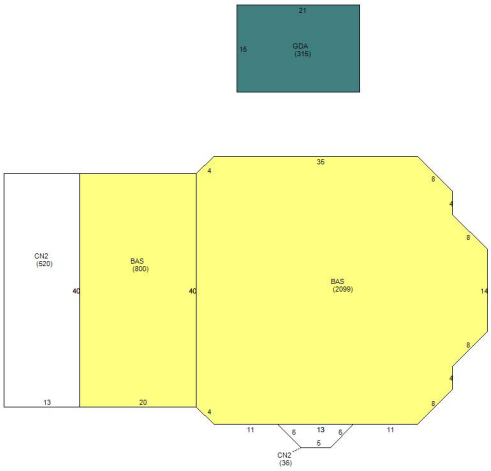
Interior Data

Bedrooms: 0
Full Baths: 0
Half Baths: 0
A/C %: 100%

Electric: MAXIMUM
Heat Type: FrcdHotAir
Heat Fuel: ELEC
Heated %: 100%

Primary Int Wall:
Avg Hgt/Floor: 0
Primary Floors: Tile-Ceramic
Sprinkled %: 100%





Sketch Area Legend

Sub Area	Description	Area	Fin. Area	Perimeter
BAS	BASE AREA	2899	2899	294
CN2	CANOPY	556	0	136
GDA	Garage Detached Average	315	0	72

Building Information (3 of 3)

Finished Area: 3,075 SF

Gross Sketched Area: 4,015 SF

Exterior Data

View:
Building Type: INDW
Grade: Y_D+
Story Height: 1 Story

Roof Cover: Enam Metal
Year Built: 2001
Effective Year: 2001
No. Units: 1

Roof Structure: Steel Truss
Frame:
Primary Wall: Corr Metal
Secondary Wall:

Interior Data

Bedrooms: 0
Full Baths: 0
Half Baths: 0
A/C %: 24%

Electric: MAXIMUM
Heat Type: FrcdHotAir
Heat Fuel: ELEC
Heated %: 24%

Primary Int Wall:
Avg Hgt/Floor: 0
Primary Floors: CONC GRD
Sprinkled %: 0%





Sketch Area Legend

Sub Area	Description	Area	Fin. Area	Perimeter
BAS	BASE AREA	2331	2331	232
CN2	CANOPY	940	0	176
IOFL	INTERIOR OFFICE LOW QUALITY	744	744	110

Special Features and Yard Items

Type	Qty	Units	Year Blt
CHAINLINK 6'	1	450	1973
ASP1 HIGH	1	16400	1973
BOARDWALK	1	360	1973
ASP1 HIGH	1	158400	1973
CLAY TEN CRT	1	13200	1974
CB/8'	1	600	1974
CHAINLINK 10	1	480	1974
CHAINLINK 6'	1	417	2001
OHD AVG	1	282	2001
CONCRETE LOW	1	10612	2001

Current Year Values

Current Values Breakdown

Building:	$451,500
Land:	$185,900
Just/Market:	$637,400
Ag Credit:	$0
Save Our Homes or 10% Cap:	$213,685
Assessed:	$423,715
Exemption(s):	$423,715
Taxable:	$0

Current Year Exemption Value Breakdown

Tax Year	Grant Year	Code	Description	Amount
2020	2004	2900	Homeowner or Property Owner Associations	$423,715

Current Year Special Assessment Breakdown

This does not necessarily represent the total Special Assessements that could be charged against this property. The total amount charged for special assessments is reflected on the most current tax statement and information is available with the SLC Tax Collector's Office.

Historical Values

Year	Just/Market	Assessed	Exemptions	Taxable
2020	$637,400	$423,715	$423,715	$0
2019	$643,300	$385,196	$385,196	$0
2018	$357,800	$357,800	$357,800	$0

Permits

Number	Issue Date	Description	Amount	Fee
F01-0001017	Jul 24, 2001	Unknown	$3,000	$0
F88000143B	Mar 1, 1988	Unknown	$10,000	$10,000
F88000143P	Mar 1, 1988	Unknown	$100	$100
F88000143S	Mar 1, 1988	Unknown	$100	$100
F000-000934	Sep 15, 2000	Unknown	$70,000	$0
CR2002-23	Sep 27, 2002	Unknown	$0	$250
CR2002-24	Oct 31, 2002	Unknown	$7,500	$250
CR2002-35	Oct 30, 2002	Unknown	$50,000	$675
SIDE2002-5	Oct 10, 2002	Unknown	$2,000	$75
SIDE20025	Jul 20, 2004	Unknown	$2,000	$150
TT20052	Mar 4, 2005	Unknown	$1,500	$150
IRR200518	Jan 11, 2006	Unknown	$12,000	$195
QUAD200411	Jan 1, 2004	Unknown	$0	$0
BP09-0468	Apr 10, 2009	Concrete	$2,490	$100
BP10-1923	Aug 19, 2010	Alterations/Remodeling	$800	$150
BP12-2147	Dec 5, 2012	Alterations/Remodeling	$100,000	$1,039
BP14-0453	Feb 24, 2014	Electric	$985	$155
BP14-1936	Jul 28, 2014	Electric	$15,000	$157
BP14-2171	Aug 19, 2014	Electric	$1,000	$155
BP15-1279	May 22, 2015	Electric	$7,000	$155
BP15-2677	Oct 6, 2015	Electric	$8,520	$166
BP16-2964	Nov 17, 2016	Re Roof Permit	$10,635	$0
BP16-3268	Dec 13, 2016	Electric	$1,750	$0
BP17-0387	Feb 10, 2017	Electric	$1,750	$0
BP16-1501	Oct 5, 2017	Additions to existing construction	$25,086	$0
BP19-2985	Sep 19, 2019	Fence	$180,000	$0
BP20-3415	Oct 19, 2020	Electric	$1,750	$0

Notice: This does not necessarily represent all the permits for this property.

Click the following link to check for additional permit data in Fort Pierce

All information is believed to be correct at this time, but is subject to change and is provided without any warranty.
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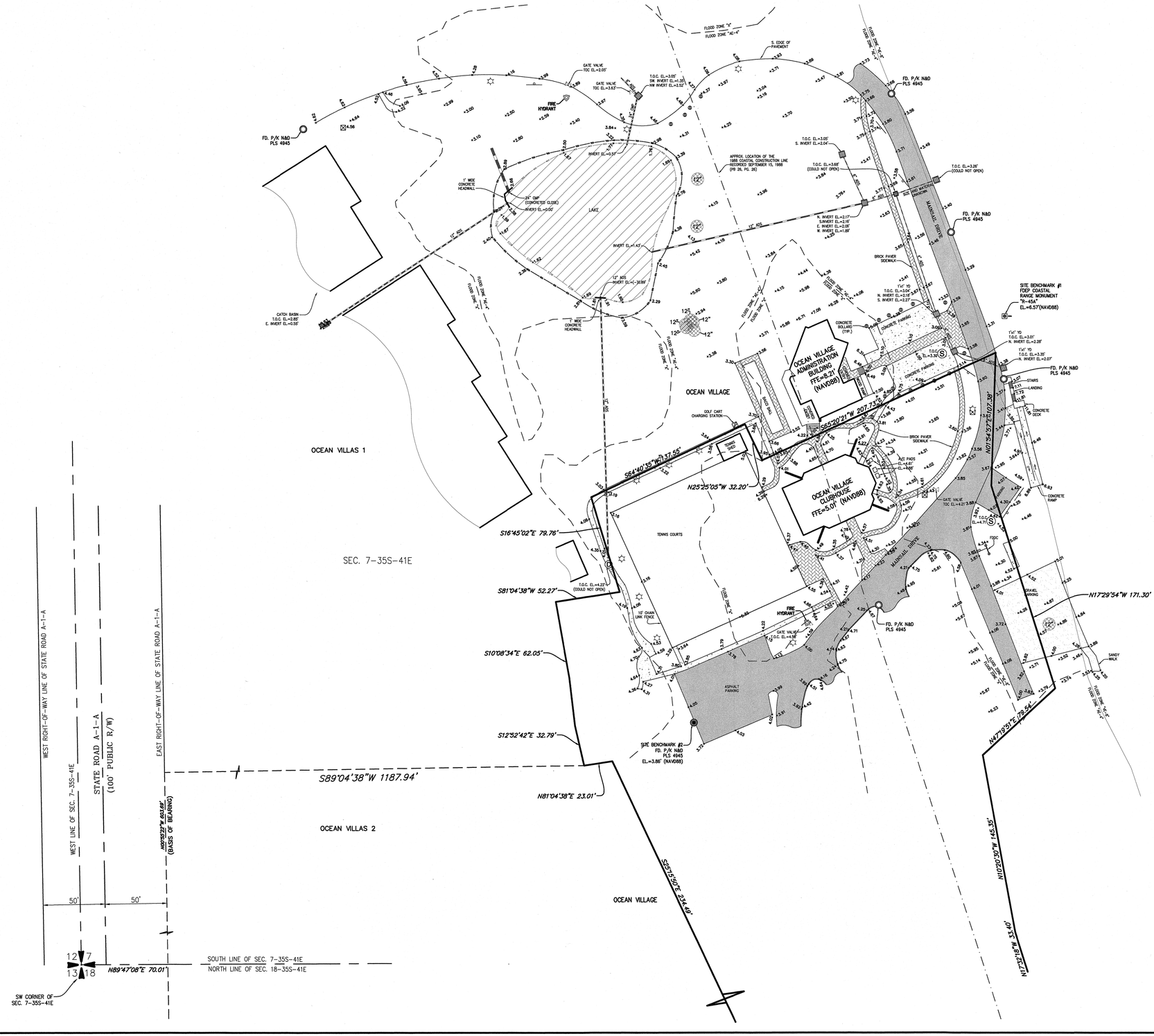
TOPOGRAPHIC SURVEY



REPORT OF SURVEY:

- TYPE OF SURVEY: TOPOGRAPHIC
- THIS SURVEY PERFORMED BY:

  MERIDIAN LAND SURVEYORS LB#6905 1717 INDIAN RIVER BLVD. SUITE 201 VERO BEACH, FLORIDA 32960
- PROFESSIONAL SURVEYOR & MAPPER IN RESPONSIBLE CHARGE: BILLY M. MOODY P.S.M. #5336
- NO LEGAL DESCRIPTION WAS FOUND IN THE ST. LUCIE COUNTY OFFICIAL RECORDS NOR PROVIDED BY THE CLIENT.
- ELEVATIONS AND DIMENSIONS SHOWN HEREON ARE MEASURED IN FEET AND DECIMAL PARTS THEREOF.
- THE LAST DATE OF FIELD WORK WAS: 03/18/2021
- THIS SURVEY DOES NOT CERTIFY TO THE EXISTENCE OR LOCATION OF ANY UNDERGROUND IMPROVEMENTS: UTILITIES, FOUNDATIONS, OR ENCROACHMENTS, EXCEPT AS SHOWN.
- NO INSTRUMENTS OF RECORD REGARDING EASEMENTS, RIGHT-OF-WAYS, OR OWNERSHIP WERE SUPPLIED TO THIS SURVEYOR, EXCEPT AS SHOWN.
- THE BEARING BASE FOR THIS SURVEY IS N00°55'22"W, ALONG THE EAST RIGHT OF WAY LINE OF STATE ROAD A-1-A. ALL OTHER BEARINGS SHOWN ARE RELATIVE THERETO.
- THE LIMITS OF CONSTRUCTION BOUNDARY LINE AS SHOWN ON THIS SURVEY IS BASED UPON A "LIMITS OF CONSTRUCTION" SURVEY PERFORMED BY ROLAND E. ROLLINS, PLS #4945 JOB # RR180604ASB3
- UNLESS OTHERWISE INDICATED, FOUND MONUMENTATION IS UNIDENTIFIED.
- THE PARCEL OF LAND SHOWN HEREON APPEARS TO BE IN FLOOD ZONE "X", "VE-8" AND "AE-6" , PER FLOOD INSURANCE RATE MAP #12111C0194 K, DATED FEBRUARY 19, 2020..
- THE ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988. PRIMARY BENCHMARK UTILIZED IS NGS MONUMENT "B-770", EL.= 3.64'. SITE BENCHMARKS ARE AS SHOWN HEREON.

LEGEND & ABBREVIATIONS

SYMBOLS NOT SCALEABLE FOR SIZE

PLS	– PROFESSIONAL LAND SURVEYOR		- CABLE TV BOX
PSM	– PROFESSIONAL SURVEYOR & MAPPER		- CENTERLINE
LB	– LAND SURVEYING BUSINESS		- (CM) CONCRETE MONUMENT
℄	– CENTERLINE		- CURB INLET
B.M.	– BENCHMARK		- DRAINAGE MANHOLE
POC	– POINT OF COMMENCEMENT		- ELECTRIC BOX
POB	– POINT OF BEGINNING		- GATE VALVE
PCP	– PERMANENT CONTROL POINT		- GUY WIRE
PRM	– PERMANENT REFERENCE MONUMENT		- HYDRANT
IP	– IRON PIPE		- IRON PIPE
IRC	– IRON ROD & CAP		- IRON ROD & CAP
CM	– CONCRETE MONUMENT		- LIGHT POST
FD	– FOUND		- MITERED END SECTION
(P)	– PLAT		- POINT OF INTERSECTION
(OA)	– OVERALL		- SANITARY MANHOLE
R/W	– RIGHT OF WAY		- STREET SIGN
			- SURFACE INLET
			- TELEPHONE SERVICE
			- TYPICAL ELEVATION
			- WATER METER
			- WELL
			- WOOD UTILITY POLE

– CABBAGE PALM
– OAK
– BEACH DAISY
– SEAGRAPE
– SEAOATS
– EXOTIC

MERIDIAN
LAND SURVEYORS
1717 INDIAN RIVER BLVD, SUITE 201
VERO BEACH, FL. 32960 LB#6905
PHONE: 772-794-1213, FAX: 772-794-1096
EMAIL: INFO@MLS-LB6905.COM

PROJECT# 21-025
DATE: 5/4/21
F.B. 354 PG. 37
DRAWN BY: NJL
CHECKED BY:
SCALE: 1"= 30'
SHEET 1 OF 1

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

NORTH

PLAT OF SURVEY FOR

PROCTOR CONSTRUCTION

2400 S. OCEAN DR.
FT. PIERCE, FL 34949

NO.	DATE	REVISIONS	BY

THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF THE FLORIDA LICENSED SURVEYOR AND MAPPER NAMED BELOW.

STATE OF FLORIDA
BILLY M. MOODY
LICENSED SURVEYOR AND MAPPER
NO. 5336

5/5/2021

BILLY M. MOODY, PROFESSIONAL SURVEYOR AND MAPPER #5336

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CONDITIONAL USE SITE PLAN

FOR

OCEAN VILLAGE CLUBHOUSE

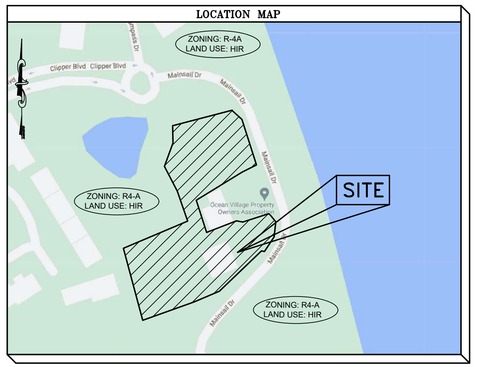
SECTION 07, TOWNSHIP 35 S, RANGE 41 E

CITY OF FT. PIERCE, FLORIDA

LEGAL DESCRIPTION

NOT AVAILABLE - SURVEY IS LIMITS OF CONSTRUCTION SURVEY

LOCATION MAP



DRAWING INDEX

SHEET	DESCRIPTION
1	COVER SHEET
2	EXISTING CONDITIONS AND POLLUTION PREVENTION
3	POLLUTION PREVENTION DETAILS
4A-4B	SOIL BORINGS
5	SITE PLAN
6	PAVING, GRADING AND DRAINAGE PLAN
7	CROSS SECTIONS
8-11	MISCELLANEOUS DETAILS
12	AERIAL
ATTACHED	SURVEY LANDSCAPE PLAN LIGHTING PLAN ARCHITECTURAL PLAN

SITE DATA

OWNER/DEVELOPER	OCEAN VILLAGE POA, INC. 2400 SOUTH OCEAN DRIVE FT. PIERCE, FL 34949
ENGINEER	SCHULKE, BITTLE & STODDARD, L.L.C. JODAH B. BITTLE, P.E. 57396 1717 INDIAN RIVER BLVD. SUITE 201 VERO BEACH, FL 32960 (772) 770-9622
SURVEYOR:	MERIDIAN LAND SURVEYORS 1717 INDIAN RIVER BLVD., SUITE 201 VERO BEACH, FL 32960 PHONE (772) 794-1213
EXISTING USE	CLUBHOUSE WITH RACQUET COURTS
PROPOSED USE	CLUBHOUSE WITH RACQUET COURTS
PROJECT LOCATION	WEST SIDE OF MAINSAIL DRIVE AND SOUTH OF CLIPPER BOULEVARD
SITE ADDRESS	SURFSIDE DRIVE, FT. PIERCE, FL
PARCEL I.D. NUMBER	2507-321-0001-000-5
CURRENT LAND USE	HIR (HUTCHINSON ISLAND RESIDENTIAL)
CURRENT ZONING	R-4A (HUTCHINSON ISLAND MEDIUM DENSITY RESIDENTIAL)
PROPOSED ZONING	R-4A (HUTCHINSON ISLAND MEDIUM DENSITY RESIDENTIAL)
PHASING PLAN	PHASE 1: NEW CLUBHOUSE, ADDITION TO EXISTING TENNIS COURT, SIDEWALKS AND ADDITIONAL PARKING AREA PHASE 2: PROPOSED TWO ADDITIONAL TENNIS COURTS AND SIDEWALK CONNECTION FROM CLUBHOUSE TO TENNIS COURTS

DEVELOPMENT PARAMETERS :

	EXISTING R-4A ZONING	PROPOSED DEVELOPMENT
MIN. LOT AREA	5,000 SF PER UNIT	40.02 ACRES
MIN. OVERALL LOT WIDTH	75'	>75'
MIN. INTERIOR LOT DEPTH	70'	>70'
MIN. YARD SETBACKS:		
FRONT (WEST)	25'	N/A
SIDE (NORTH)	10'	N/A
SIDE (SOUTH)	10'	N/A
REAR (WEST)	20'	N/A
MAX. LOT COVERAGE BY BLDGS	40%	8.5%
MIN. OPEN SPACE	25%	41%
MAX. IMPERVIOUS AREA	75%	59%
MAXIMUM DENSITY	8 UNITS/ACRE	N/A
MAX. BLDG. HEIGHT	45'	20'

AREA CALCULATIONS:

SITE AREAS:	EXISTING		PROPOSED (BASED ON LIMITS OF CONSTRUCTION)		
DEVELOPABLE AREA:	1,743,271 SF	40.02 AC	1,743,271 SF	40.02 AC	
LIMITS OF CONSTRUCTION:	75,542 SF	1.73 AC	75,542 SF	1.73 AC	100.0%
IMPERVIOUS AREA:	26,455 SF	0.60 AC	44,583 SF	1.02 AC	59.0%
EXIST. BUILDING AREA:	2,370 SF	0.05 AC	0 SF	0.00 AC	0.0%
EXIST. PAVING, CONC.:	24,085 SF	0.55 AC	9,567 SF	0.22 AC	12.7%
PROP. BUILDING AREA::	0 SF	0.00 AC	6,426 SF	0.15 AC	8.5%
PROP. PAVING, CONC.:	0 SF	0.00 AC	28,590 SF	0.66 AC	37.8%
PERVIOUS AREA:	49,087 SF	1.13 AC	30,959 SF	0.71 AC	41.0%
GREEN SPACE:	49,087 SF	1.13 AC	30,959 SF	0.71 AC	41.0%

NATIVE VEGETATION/PRESERVATION:
NO NATIVE AREA. SITE IS GRASS WITH TREES AND SHRUBS

PARKING CALCULATIONS:
EXISTING: RECREATION/CLUBHOUSE: 1 SPACE PER 200 SF
EXISTING 2,370 SF CLUBHOUSE WITH ADJACENT PARKING SPACES
2,370 SF X 1 SPACES / 200 SF = 12 SPACES
14 EXISTING PARKING SPACES TO THE SOUTH OF CLUBHOUSE

PROPOSED: RECREATION/CLUBHOUSE: 2 SPACE PER 200 SF
PROPOSED 6,426 SF CLUBHOUSE WITH ADJACENT PARKING SPACES
6,426 SF X 1 SPACES / 200 SF = 32 SPACES

PROVIDED: 14 EXISTING PARKING SPACES
18 PROPOSED PARKING SPACES
32 TOTAL PARKING SPACES

CONSTRUCTION SCHEDULE:

PHASE	DATE OF COMMENCEMENT	DATE OF COMPLETION
1	11/21	11/22
2	1/24	1/25

GENERAL NOTES

1. PROPOSED PUBLIC WATER SUPPLY – FT. PIERCE UTILITY AUTHORITY
2. PROPOSED PUBLIC SEWER – FT. PIERCE UTILITY AUTHORITY
3. GARBAGE IS HANDLED WITH CANS STORED IN THE UNITS. NO DUMPSTER PROPOSED.
4. THE PARCEL OF LAND SHOWN HEREON APPEARS TO BE IN FLOOD ZONE "X", "VE-8" AND "AE-4" PER FLOOD INSURANCE RATE MAP #12111C0194 K, DATED FEBRUARY 19, 2020.
5. ALL CONSTRUCTION ON SITE TO BE DONE PER ALL CITY OF FT. PIERCE STANDARDS AND SPECIFICATIONS.
6. ALL UTILITY CONSTRUCTION ON SITE TO BE DONE PER F.P.U.A. UTILITY STANDARDS AND SPECIFICATIONS, LATEST EDITION.
7. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST VERSIONS OF THE M.U.T.C.D., FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, AND CITY OF FT PIERCE TYPICAL PAVEMENT MARKINGS AND SIGNING DETAILS. IN ADDITION, ALL PAVEMENT MARKINGS WITHIN THE RIGHT-OF-WAY SHALL BE INSTALLED IN THERMO-PLASTIC.
8. EXISTING DRIVES AND/OR INTERSECTIONS SHOWN ARE WITHIN THE 300' RADIUS REQUIRED FROM THE PROPOSED SITE.
9. THE EXISTING SPEED LIMIT FOR SEAWAY DRIVE IS 35 M.P.H.
10. ALL PROPOSED TRAFFIC CONTROL DEVICES SHOWN ON SITE TO BE PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
11. THE SITE LIGHTING (SOURCE OF ILLUMINATION) CANNOT BE VISIBLE FROM THE SITE.
12. ANY NUISANCE/EXOTIC PLANTS IN THE DEVELOPED AREA WILL BE REMOVED.
13. AT INTERSECTIONS, WALLS, FENCES, PLANTS OR SIGHT OBSTRUCTIONS OF ANY KIND OVER 18" IN HEIGHT ARE PROHIBITED WITHIN THE SITE DISTANCE TRIANGLE AS REQUIRED BY FDOT INDEX 546, 2014 EDITION.
14. ANY DISTURBED AREAS ON SITE OR IN THE COUNTY RIGHT-OF-WAY TO BE SODDED.
15. RUN-OFF FROM ROOF TO BE DIRECTED TO STORMWATER SYSTEM.
16. ALL LIGHTS MUST MEET THE FOLLOWING CRITERIA:
    – ALL POLES MUST BE BLACK OR BRONZE
    – ALL LIGHTS MUST BE DIRECTED DOWNWARD, WITH A 90 DEG. CUT-OFF
    – LIGHTS MUST NOT CAUSE GLARE ONTO ADJACENT R/W OR PROPERTIES.
17. ALL STOP SIGNS (R1-1) SHALL BE 30"
18. NO DEWATERING BETWEEN 6 PM AND 6 AM WITHOUT CITY OF FT PIERCE APPROVAL.
19. AN ENTRANCE GATE IS PROPOSED FOR THIS SITE.
20. CITY OF FT. PIERCE OR FDOT MAY HAVE UNDERGROUND CONDUIT FOR TRAFFIC SIGNAL INTERCONNECTIONS IN THIS AREA AS WELL AS OTHER TRAFFIC SIGNAL EQUIPMENT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT SUNSHINE STATE ONE CALL SYSTEM AT 1-800-432-4770 FOR LOCATIONS OF THIS EQUIPMENT AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION.
21. ALL SOLID, NON-BREAKAWAY OBJECTS (GATE POSTS/COLUMNS; BOLLARDS, STREET LIGHT POLES, ETC.) ALONGSIDE INTERIOR STREETS AND DRIVING AISLES SHALL BE LOCATED OUTSIDE THE CLEAR ZONE. FOR STREETS AND DRIVING AISLES WITH A DESIGN SPEED OF 25 MPH OR LESS, THE MINIMUM CLEAR ZONE IS 2.5 FEET FROM THE FACE OF THE CURB (TYPE 'D' OR 'F'), OR 6 FEET FROM THE EDGE OF THE TRAVEL LANE. THIS APPLIES TO PUBLIC AND PRIVATE PROPERTY.
22. THE BEARING BASE FOR THIS SURVEY IS N00°55'22"W, ALONG THE EAST RIGHT OF WAY LINE OF STATE ROAD A-1-A. ALL OTHER BEARINGS SHOWN ARE RELATIVE THERETO.
23. THE ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988. PRIMARY BENCHMARK UTILIZED IS NGS MONUMENT "B-770", EL= 3.64'. SITE BENCHMARKS ARE AS SHOWN HEREON.
24. ALL CONSTRUCTION WILL COMPLY WITH SECTIONS 17 AND 22 OF THE CITY OF FT. PIERCE CODE OF ORDINANCES.
25. ANY ABANDONED FLOW WELLS FOUND ON SITE SHALL BE PLUGGED PURSUANT TO D.O.H. AND SFWMD REGULATIONS.
26. ALL PAVEMENT MARKINGS IN THE RIGHT-OF-WAY SHALL BE 90 MIL, EXTRUDED TYPE, ALKYD BASE THERMOPLASTIC.
27. ALL HANDICAPPED PARKING SPACES SHALL BE PROPERLY SIGNED AND STRIPED IN ACCORDANCE WITH THE FDOT STANDARD INDEX 17346, 2014 EDITION.
28. ALL STOP SIGNS SHALL BE HIGH INTENSITY RETRO-REFLECTIVETY
29. ALL UTILITIES MUST BE PLACED UNDERGROUND.
30. THE CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITY LINES AND STRUCTURES PRIOR TO CONSTRUCTION.
31. FIRE SPRINKLER SYSTEM IS PROPOSED FOR THIS BUILDING.

CONSTRUCTION NOTES

1. SUBMITTALS

A. PRODUCT DATA AND SHOP DRAWINGS

1. FOR ALL SITE WORK CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT PRODUCT DATA IN THE FORM OF MANUFACTURERS' CUT SHEETS AND CATALOG DATA FOR ALL PRODUCTS, MATERIAL AND EQUIPMENT CLEARLY INDICATING THE SPECIFIC PART OR PRODUCT CATALOG NUMBER(S) FOR APPROVAL.
2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL PRODUCTS, MATERIALS AND EQUIPMENT REQUIRED TO BE FABRICATED, OR WHEN STANDARD PUBLISHED PRODUCT DATA IS NOT SUITABLE FOR USE.
3. SUBMIT 6 COPIES OF REQUESTED INFORMATION, NEATLY BOUND AND INDEXED PER CATEGORY FOR THE FOLLOWING:

A. UTILITIES:
ALL PIPE, FITTINGS, VALVES, OTHER MISCELLANEOUS APPURTENANCES, CONTROLS, PUMP STATION EQUIPMENT, COMPONENTS AND STRUCTURES, AND ALL OTHER UTILITY SYSTEM PRODUCTS, MATERIALS AND COMPONENTS AND SIMILAR CONTROLS.

B. DRAINAGE:
ALL PIPE, FITTINGS, AND COMPONENTS THEREOF, STRUCTURES, FRAMES, GRATES, LIDS, GASKETS,FASTENERS, COUPLINGS AND SIMILAR, AND ALL OTHER DRAINAGE SYSTEM PRODUCTS, MATERIALS, AND COMPONENTS AND SIMILAR CONTROLS.

C. PAVING AND GRADING:
FDOT CERTIFICATIONS AND LAB ANALYSIS/RESULTS FOR PAVEMENT, BASE, SUBGRADE, AND FILL MATERIALS. INCLUDE EVIDENCE (CERTIFICATIONS) THAT THE MATERIALS PROPOSED TO BE USED MEET OR EXCEED FDOT SPECIFICATIONS AND THE CONTRACT DOCUMENTS.

D. SIGNING AND PAVEMENT MARKING:
SIGN AND PAVEMENT MARKING PRODUCTS AND MATERIALS, AND EVIDENCE THAT THE PRODUCTS AND MATERIALS PROPOSED TO BE USED MEET OR EXCEED REQUIREMENTS SPECIFIED IN THE CONTRACT DOCUMENTS, LOCAL ENGINEERING DEPARTMENT, MUTCO AND FDOT SPECIFICATIONS.

E. IRRIGATION:
ALL PIPE, FITTINGS, VALVES, OTHER MISCELLANEOUS APPURTENANCES, CONTROLS, PUMP STATION EQUIPMENT, COMPONENTS AND STRUCTURES, AND ALL OTHER UTILITY SYSTEM PRODUCTS, MATERIALS AND COMPONENTS AND SIMILAR CONTROLS, WELLS, AND/OR OTHER IRRIGATION SOURCES. THE CONTRACTOR SHALL SUBMIT AN IRRIGATION COORDINATION DRAWING, INDICATING CONTRACTOR'S PROPOSED LOCATION OF MAIN LINES, SECONDARY LINES, HEAD LOCATIONS, WELL PUMP, CONTROL PANEL, SENSORS, CONTROL VALVE AND VALVE LOCATIONS. THIS DRAWING SHOULD CLEARLY DEPICT ADJUSTMENTS OR CHANGES THE CONTRACTOR PROPOSES. THE DRAWINGS SHALL INDICATE ALL PROPOSED SUBSTITUTIONS OF SIZE, MATERIAL, AND/OR MANUFACTURER.

4. ALLOW TWO WEEKS FOR THE ENGINEER TO COMPLETE REVIEW OF PRODUCT DATA AND SHOP DRAWINGS. ENGINEER WILL NOT BE RESPONSIBLE FOR PROJECT DELAYS RELATED TO DELIVERY AND TRANSMISSION OF THE DOCUMENTS ONCE INFORMATION HAS LEFT ENGINEER'S OFFICE. ITEMS REQUIRING A LONG LEAD TIME SHOULD BE SUBMITTED AS SOON AS POSSIBLE.
5. THE CONTRACTOR SHALL PROVIDE A STAMP INDICATING ITS REVIEW AND APPROVAL, INITIALED OR SIGNED,CERTIFYING TO REVIEW OF SUBMITTAL, VERIFICATION OF PRODUCTS, FIELD MEASUREMENTS AND FIELD CONSTRUCTION CRITERIA, AND COORDINATION OF THE INFORMATION WITHIN THE SUBMITTAL WITH REQUIREMENTS OF THE WORK AND OF CONTRACT DOCUMENTS, INCLUDING PLANS AND SPECIFICATIONS OF OTHER DESIGN PROFESSIONALS (I.E.; ARCHITECT, MECHANICAL, ELECTRICAL, AND STRUCTURAL ENGINEERS).

B. TESTING

1. WATER: PRESSURE (MAIN AND TAPS), BACTERIOLOGICAL, BACKFILL DENSITIES, BACKFLOW PREVENTOR TESTS AND CERTIFICATION; AND AS PER PROJECT SPECIFICATIONS, LOCAL UTILITIES DEPARTMENT, AND FDEP REQUIREMENTS.
2. SEWER: EXFIL, TV, AND BACKFILL DENSITIES. PRESSURE TEST (MAINS AND TAPS) LIFT STATION START-UP, ALL PER PROJECT SPECIFICATIONS, COVE AND FDEP REQUIREMENTS.
3. DRAINAGE: EXFIL, LAMPING (FIELD), AND BACKFILL DENSITIES PER PROJECT SPECIFICATIONS AND LOCAL ENGINEERING REQUIREMENTS.
4. EARTHWORK & PAVING: DENSITIES, LBR'S AND FBV'S AS PER PROJECT SPECIFICATIONS AND LOCAL ENGINEERING REQUIREMENTS.
5. SUBMIT ALL TEST RESULTS FOR ENGINEERING REVIEW WITHIN 3 DAYS OF TESTING. FAILURE TO PROVIDE TEST RESULTS, OR PROVIDING FAILING TEST RESULTS WILL BE GROUNDS FOR DELAY AND/OR REJECTION OF PAY REQUEST APPLICATIONS.

C. AS-BUILTS

1. GRADING: LOCATION AND ELEVATION OF ALL: CONCRETE AND PAVEMENT (VEHICLE USE AND PEDESTRIAN USE IMPROVEMENTS) AT HI/LOW POINTS, EDGE OF PAVEMENT, AND CENTERLINE AT 50' ON CENTER AND AT CHANGE OF DIRECTION, GRADE BREAKS; PROPERTY LINES (CROSS SECTIONS 50' ON CENTER); TOP OF BANK AND T.O.E. OF SLOPE AND/OR CENTERLINE OF SWALES AND RETENTION AREAS; CROSS SECTIONS 50' ON CENTER ON STORMWATER LAKES FROM TOP TO BOTTOM; MECHANICAL PADS AND FINISHED FLOOR ELEVATIONS; DETAILED LOCATION AND TOPOGRAPHY OF DRIVEWAY TURNOUTS.
2. WATER AND SEWER FORCE MAINS: LOCATION, TOP ELEVATION AND STATE PLANE COORDINATES AT ALL FITTINGS, VALVES, CHANGES OF DIRECTION AND AT 100' ON CENTER.
3. GRAVITY SEWER:
- SEWER STRUCTURES: DIAMETER OR SIZE, AND LOCATION AND ELEVATION OF STRUCTURES, TOP, BOTTOMS, AND SEWER INVERTS.
- MAINS AND LATERALS: LOCATION AND INVERT ELEVATIONS AT CONNECTIONS, FITTINGS, AND TERMINATION
- LIFT STATIONS: HORIZONTAL LAYOUT AND LOCATION OF ALL EQUIPMENT, PANELS, VAULTS, WET WELL, VALVES; LOCATION OF CONDUIT RUNS AND WATER SERVICE/ HOSE BIBB; LOCATION AND INVERT ELEVATIONS OF GRAVITY AND FORCE MAINS TO AND FROM LIFT STATION; WET WELL DIAMETER, TOP AND BOTTOM ELEVATIONS; PUMP(S) SIZE, TYPE, DISCHARGE DIAMETER, MANUFACTURER AND MODEL #.
4. DRAINAGE: ALL STRUCTURES DIAMETER OR SIZE, LOCATION, AND ELEVATION OF TOP, BOTTOM, AND INVERT ELEVATIONS; ALL PIPES, DIAMETER, TYPE/MATERIAL; LOCATION AND INVERT ELEVATION AT CONNECTIONS, FITTINGS, AND TERMINATION POINTS.
5. IRRIGATION: ALL LINES, SYSTEM EQUIPMENT COMPONENTS, MATERIALS INCLUDING PIPES, VALVES, FITTINGS, SPRINKLER HEADS, AND MISCELLANEOUS APPURTENANCES.

D. OPERATION AND MAINTENANCE MANUALS

1. CONTRACTOR SHALL PROVIDE THE OWNER WITH OPERATION AND MAINTENANCE MANUALS FOR ALL OPERABLE EQUIPMENT (PUMP STATIONS AND CONTROLS, AUTOMATIC CONTROL VALVES, AND OTHER AUTOMATED EQUIPMENT; CONTROL PANELS, ETC.).
2. OPERATION AND MAINTENANCE MANUALS SHALL BE SUBMITTED AS A PRE-REQUISITE TO THE PROJECT BEING DEEMED SUBSTANTIALLY COMPLETE.

E. WARRANTY

THE CONTRACTOR SHALL PROVIDE ALL WARRANTIES, CERTIFICATIONS, GUARANTIES, AND WARRANTY BONDS AS SPECIFIED IN THE CONTRACT DOCUMENTS AND PERMIT CONDITIONS INCLUDING:
-UTILITY MAINTENANCE BOND - FOR ALL PUBLIC WATER AND SEWER UTILITIES INFRASTRUCTURE - (25% OF CONTRACT VALUE)
-ENGINEERING MAINTENANCE BOND - FOR ALL PAVING, GRADING, AND DRAINAGE IMPROVEMENTS AND INFRASTRUCTURE (25% OF CONTRACT VALUE)

F. OWNER TRAINING

THE CONTRACTOR SHALL INCLUDE 2 HOURS OF OWNER TRAINING (FOR EACH WATER, SEWER,DRAINAGE, AND IRRIGATION SYSTEMS) FOR ALL OPERABLE EQUIPMENT AND SHALL INCLUDE THE TIME FOR INITIAL ADJUSTMENTS OF EQUIPMENT AND TIME FOR ONE FOLLOW-UP VISIT AND ADJUSTMENTS OF EQUIPMENT 60 DAYS AFTER END USER HAD OPERATIONAL TIME WITH THE EQUIPMENT.

SCHULKE, BITTLE & STODDARD, L.L.C.

CIVIL & STRUCTURAL ENGINEERING · LAND PLANNING · ENVIRONMENTAL PERMITTING

CERTIFICATION OF AUTHORIZATION NO.: 00008668

1717 INDIAN RIVER BLVD., SUITE 201 VERO BEACH, FLORIDA 32960
TEL 772 / 770-9622 FAX 772 / 770-9496 EMAIL info@sbsengineers.com

ENGINEER CERTIFICATION

JODAH B. BITTLE LICENSE No 57396 STATE OF FLORIDA PROFESSIONAL ENGINEER

JODAH B. BITTLE
FL. REG. NO. 57396

DATE: 5/26/2021

PROJECT NO. 21-032

SHEET 1

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SITE BENCHMARK #2
FD. P/K N&D
PLS 4945
EL.=3.86' (NAVD88)

LIMITS OF CONSTRUCTION

T.O.C. EL.=4.22'
(COULD NOT OPEN)

FLOOD ZONE "X"
FLOOD ZONE "AE-4"
FLOOD ZONE "AE-6"

EXISTING 12" ADS

EXISTING 10' CHAIN LINK FENCE

TENNIS COURT TO REMAIN

EXISTING ASPHALT PARKING

TENNIS COURT TO BE REMOVED

EXISTING TENNIS SHED

EXISTING GOLF CART CHARGING STATION

EXISTING LAKE

TEMPORARY CONCRETE HEADWALL

1" WIDE CONCRETE HEADWALL

EXISTING 24" CMP

INVERT EL=0.00'

24" CMP (CONCRETED CLOSE)

12" ADS INVERT EL= (−)0.89'

INVERT EL=1.43'

INVERT EL=0.57'

EXIST. 6" CW WATER MAIN

EXIST. FIRE HYDRANT

EXISTING GATE VALVE TOC EL.=4.58'

GATE VALVE TOC EL.=3.63'

GATE VALVE TOC EL.=2.05'

EXISTING 24" CMP

EXISTING BACCI BALL

CONCRETE TO BE REMOVED

DECK, CONCRETE TO BE REMOVED

EXISTING COVERED ENTRY

EXISTING OFFICE FF=8.21' AND 6.60'

FD. P/K N&D PLS 4945

COASTAL CONSTRUCTION CONTROL LINE SEPTEMBER 15, 1988, PER PLAT BOOK 26, PAGES 26, 26A THROUGH 26I, ST. LUCIE COUNTY, FLORIDA.

MAINSAIL DRIVE

T.O.C. EL.=3.05'
INW INVERT EL=1.35'
INW INVERT EL=2.52'

COASTAL CONSTRUCTION CONTROL LINE SEPTEMBER 15, 1988, PER PLAT BOOK 26, PAGES 26, 26A THROUGH 26I, ST. LUCIE COUNTY, FLORIDA

A/C PADS
EL.=4.61'
EL.=4.88'
TO BE REMOVED

CONCRETE TO BE REMOVED

EXISTING CONCRETE BOLLARD (TYP.)

EXISTING CONCRETE PARKING

EXISTING GATE VALVE TOC EL.=4.21'

EXISTING FDDC

EXIST MH-2
EL.=4.89'
N. INV = 0.46'

T.O.C. EL.=4.71'

EXIST. 8" VCP SEWER MAIN

EXISTING GRAVEL PARKING

EXISTING PARKING

EXIST MH-3
EL.=4.25'
N. INV = 0.05'
S. INV = 0.05'

T.O.C. EL.=3.30'

EXISTING 1'x1' YD
T.O.C. EL.=3.04'
N. INVERT EL.=2.18'
S. INVERT EL.=2.27'

EXIST. 8" VCP SEWER MAIN

EXISTING INLET
N. INVERT EL.=2.17'
S. INVERT EL.=2.16'
E. INVERT EL.=2.06'
W. INVERT EL.=1.89'

EXISTING 6" ADS

EXISTING S. INVERT EL.=2.04'

EXIST MH-4 EL.=4.98'
NW INV = (−)0.79
S. INV = (−)0.79

T.O.C. EL.=3.68'
(COULD NOT OPEN)

EXISTING BRICK PAVER SIDEWALK

EXISTING 4" ADS

EXISTING 6" ADS

EXISTING 12" ADS

SIDE MAINSAIL UNKNOWN

S. EDGE OF PAVEMENT

EXIST. 6" CW WATER MAIN

EXIST. 8" SAN SEWER MAIN

LIMITS OF CONSTRUCTION

CONCRETE RAMP

CONCRETE DECK

STAIRS

1'x1' YD
T.O.C. EL.=3.35'
N. INVERT EL.=2.07'

1'x1' YD
T.O.C. EL.=3.01'
N. INVERT EL.=2.28'

FD. P/K N&D PLS 4945

SITE BENCHMARK #1
FDEP COASTAL RANGE MONUMENT
"R-45A"
EL.=6.57'(NAVD88)

FD. P/K N&D PLS 4945

T.O.C. EL.=3.26'
(COULD NOT OPEN)

FD. P/K N&D PLS 4945

FLOOD ZONE "AE-4"
FLOOD ZONE "VE-8"

NORTH

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

MARK	REVISION	DATE

DRAWING 21-032 CONST
DESIGNED JBB | DRAWN JBB
CHECKED JBB
SCALE 1"=20' | DATE 04/30/21

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SCHULKE, BITTLE & STODDARD, L.L.C.
CIVIL & STRUCTURAL ENGINEERING . LAND PLANNING . ENVIRONMENTAL PERMITTING
CERTIFICATION OF AUTHORIZATION NO.: 00006668
1717 INDIAN RIVER BLVD., SUITE 201 VERO BEACH, FLORIDA 32960
TEL 772-770-9622 FAX 772-770-9496 EMAIL jbittle@sbsengineers.com
WEBSITE https://www.sbsengineers.com

EXISTING PLAN

OCEAN VILLAGE CLUBHOUSE

ENGINEER CERTIFICATION

JODAH B. BITTLE
LICENSE
No 57396
STATE OF FLORIDA
PROFESSIONAL ENGINEER

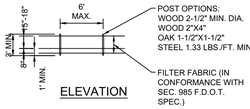
JODAH B. BITTLE
FL REG. NO. 57396

DATE: 5/26/2021

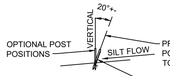
PROJECT NO. 21-032

SHEET 2

DocuSign Envelope ID: 98C90119-4662-489F-9CCD-1262482FE037



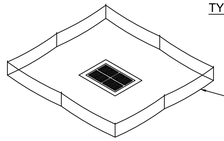
ELEVATION



SECTION

NOTES: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (L.F.)

TYPE III SILT FENCE



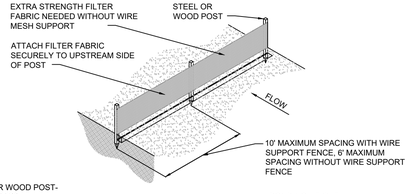
NOTE: SPACING FOR TYPE III FENCE TO BE IN ACCORDANCE WITH CHART I, SHEET 1 OF 3 AND DITCH INSTALLATIONS AT DRAINAGE STRUCTURES SHEET 2 OF 3

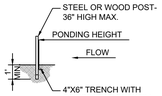


DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.

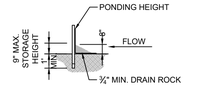
SILT FENCE APPLICATIONS-N.T.S.

NOTES:
1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" MAXIMUM RECOMMENDED STORAGE HEIGHT.
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.



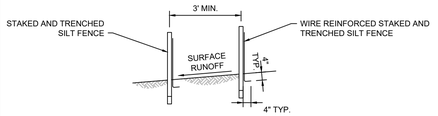


TRENCH DETAIL



INSTALLATION WITHOUT TRENCHING

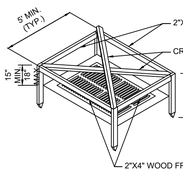
TYPE IV SILT FENCE-N.T.S.



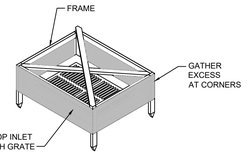
DOUBLE ROW STAKED SILT FENCE FOR USE AROUND WETLANDS-N.T.S.

COMPLETED INLET DITCH BOTTOM INLET

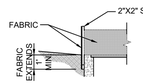
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES



VIEW OF FRAME WITHOUT SILT FENCE



VIEW OF FRAME WITH SILT FENCE



SILT FENCE INLET PROTECTION-N.T.S.

- All turbidity, erosion, and sedimentation controls shall be in accordance with `Best Management Practices' as described in the Florida Land Development Manual: A Guide to Sound Land and Water Management.
- Reference F.D.O.T. Index #102.

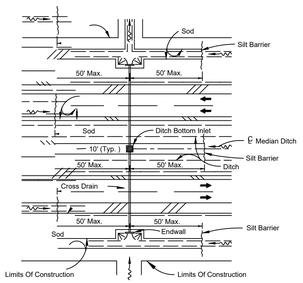
EROSION CONTROL DETAILS

N.T.S.

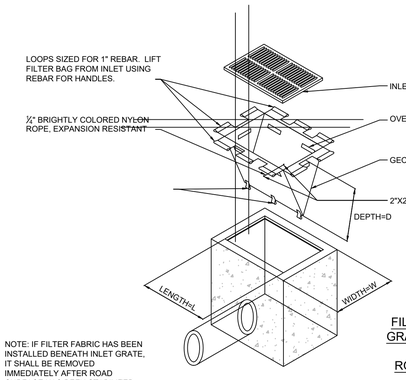
NOTES:

WETLAND PROTECTION PLAN

a. SILT FENCE MUST BE INSTALLED BY HAND ALONG SURVEYED CONSERVATION EASEMENT BOUNDARIES (AT TOE OF SLOPE-SEE SECTIONS EE,N,O) PRIOR TO CONSTRUCTION.
b. NO TURBID DISCHARGE TO WETLANDS IS PERMITTED.
c. ALL STOCKPILE AND/OR CONSTRUCTION STAGING AREAS MUST BE LOCATED 100 FT. FROM WETLANDS.

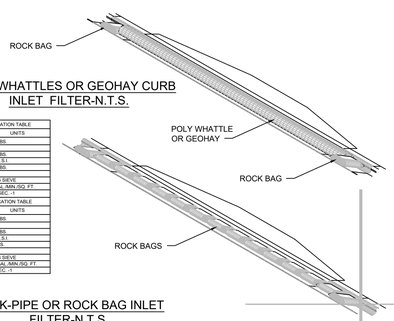


DITCH INSTALLATIONS AT DRAINAGE STRUCTURES



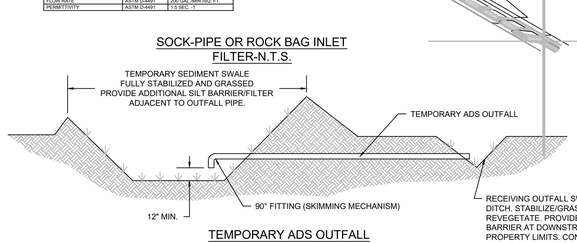
NOTE: IF FILTER FABRIC HAS BEEN INSTALLED BENEATH INLET GRATE, IT SHALL BE REMOVED IMMEDIATELY AFTER ROAD SURFACE HAS BEEN STABILIZED AND THE FILTER SACK SHALL BE IMMEDIATELY INSTALLED.

FILTER SACKS FOR GRATED INLETS AND STABILIZED ROADWAYS-N.T.S.



POLY WHATTLES OR GEOHAY CURB INLET FILTER-N.T.S.

LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
ULTRAVIOLET RESISTANCE	ASTM D-4751	70%
APPARENT OPENING SIZE	ASTM D-4751	#30 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL./MIN./SQ. FT.
PERMITTIVITY	ASTM D-4491	0.55 SEC.-1
MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	266 LBS.
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	135 LBS.
MULLEN BURST	ASTM D-3786	420 P.S.I.
TRAPEZOID TEAR	ASTM D-4533	80 LBS.
ULTRAVIOLET	ASTM D-4355	70%
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL./MIN./SQ. FT.
PERMITTIVITY	ASTM D-4491	1.5 SEC.-1



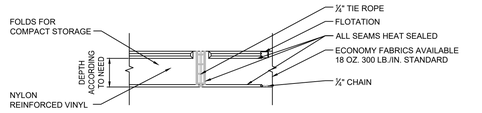
SOCK-PIPE OR ROCK BAG INLET FILTER-N.T.S.

TEMPORARY ADS OUTFALL N.T.S.

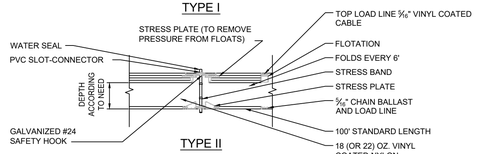
TYPE I. DOT FOR WATERS WITH LOW CURRENTS (NO MORE THAN ONE FOOT PER SECOND) AND LIGHT WINDS: LAKES, PONDS, SMALL STREAMS, MARSHES. FLEXIBLE TOP FLOTATION SECTION WITH ENCAPSULATED EPS FOAM FLOTATION LOGS (6"X6"X4')

TYPE 2. DOT FOR HIGHER CURRENT WATERS (UP TO FIVE FEET PER SECOND): DEEPER LAKES, STREAMS, INTERCOASTAL AND TIDAL AREAS. INCLUDES AN ENCAPSULATED STEEL LOAD CABLE ALONG TOP OF BARRIER AND 8"X8"X4' FLOTATION LOGS. WEAR STRESS POINTS ARE REINFORCED WITH SHIELDS.

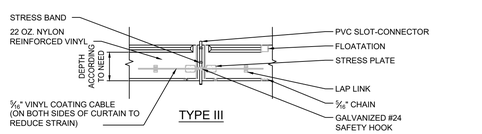
TYPE 3. DOT IS SIMILAR TO TYPE 2. DOT EXCEPT THAT POLYPROPYLENE FILTER FABRIC IS PERMANENTLY INSERTED INTO THE BARRIER SKIRT TO MEET SOME STATE'S SPECIFICATIONS.



TYPE I



TYPE II



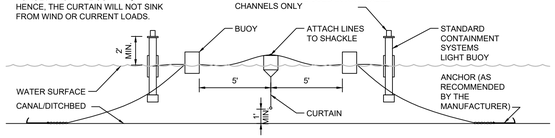
TYPE III



BLOW-UP OF SHACKLE CONNECTION

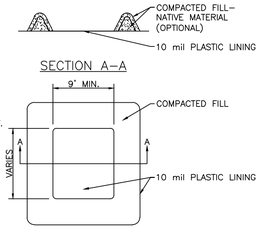
NOTE: ANCHORING TO BUOYS AS SHOWN REMOVES ALL VERTICAL FORCES FROM THE CURTAIN. HENCE, THE CURTAIN WILL NOT SINK FROM WIND OR CURRENT LOADS.

AUTOMATIC FLASHING LIGHT (ON AT DUSK-OFF AT DAWN) 100' ON CENTER SHALL BE USED IN NAVIGABLE CHANNELS ONLY

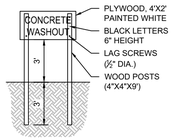


ORIENTATION WHEN INSTALLED (TIDAL SITUATION-TYPE III)-N.T.S.

NOTES:
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. A ROLL OFF CONTAINER SPECIFICALLY MANUFACTURED FOR CONCRETE AND STUCCO WASHOUT MAY BE SUBSTITUTED.



PLAN
TYPE "ABOVE GRADE" WITH COMPACTED FILL



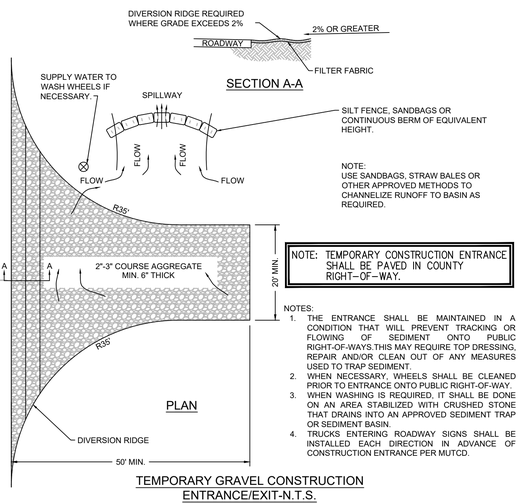
CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)



STAPLE DETAIL

CONCRETE & STUCCO WASTE MANAGEMENT–N.T.S.

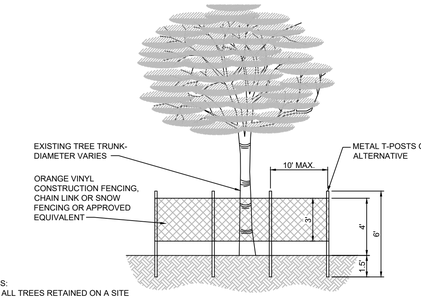
CONCRETE & STUCCO WASTE MANAGEMENT-N.T.S.



NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS.THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
4. TRUCKS ENTERING ROADWAY SIGNS SHALL BE INSTALLED EACH DIRECTION IN ADVANCE OF CONSTRUCTION ENTRANCE PER MUTCD.

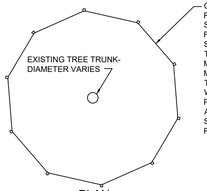
PLAN

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT-N.T.S.



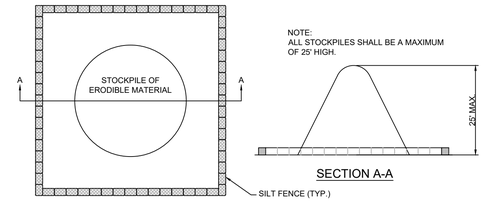
ELEVATION

NOTES:
1. ALL TREES RETAINED ON A SITE SHALL BE PROTECTIVELY BARRICADED BEFORE AND DURING CONSTRUCTION ACTIVITIES.
2. UNDERGROUND UTILITY LINES SHALL BE ROUTED AROUND EXISTING TREES TO THE OUTSIDE OF THE DRIPLINE WHERE ABLE.
3. INSTALLATION OF FENCES AND WALLS SHALL TAKE INTO CONSIDERATION THE ROOT SYSTEMS OF EXISTING TREES.
4. FENCE/BARRICADE SHALL BE INSTALLED AT PERIMETER OF ALL TRESS OR GROUP OF TREES TO BE PRESERVED. FENCE SHALL BE MAINTAINED DURING CONSTRUCTION.
5. DO NOT PARK HEAVY EQUIPMENT ON TREE ROOTS. DO NOT ADD FILL 4" TO 6" AROUND TREE. ALL WORK WITHIN THE CRZ MUST BE DONE BY HAND.



PLAN

PROTECTIVE FENCING FOR TREES-N.T.S.



SECTION A-A

NOTE: FOR STOCKPILING ERODIBLE MATERIAL FOR EXTENDED PERIODS, THE AREA SHALL BE SEEDED AND MULCHED.

SEDIMENT CONTROL DETAIL FOR STOCKPILING OF ERODIBLE MATERIAL-N.T.S.

EROSION CONTROL AND DEWATERING NOTES

1. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
2. ALL SEDIMENT CONTROL MEASURES ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON BALANCE OF SITE. PERIMETER SEDIMENT BARRIERS SHALL BE CONSTRUCTED TO PREVENT SEDIMENT OR TRASH FROM FLOWING OR FLOATING ON TO ADJACENT PROPERTIES.
3. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT UNDISTURBED FOR MORE THAN ONE YEAR.
4. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCK PILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
5. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED.
6. AFTER ANY SIGNIFICANT RAINFALL, SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED FOR INTEGRITY. ANY DAMAGED DEVICES SHALL BE CORRECTED IMMEDIATELY.
7. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.
8. SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM DRAIN SYSTEM, DITCH, OR CHANNEL. ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
9. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION.
10. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES MUST BE PROVIDED TO ENSURE INTENDED PURPOSE IS ACCOMPLISHED. THE CONTRACTOR SHALL BE CONTINUALLY RESPONSIBLE FOR ALL SEDIMENT LEAVING THE PROPERTY. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.
11. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE WITH CURBS AND GUTTERS, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER.
12. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
13. PROPERTIES AND WATERWAYS DOWNSTREAM FROM CONSTRUCTION SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND EROSION.
14. EROSION CONTROL DESIGN AND CONSTRUCTION SHALL FOLLOW THE REQUIREMENTS IN INDEX NOS. 101, 102, AND 103 OF FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, AND THE DETAILS AND NOTES ON THE PLANS.
15. CONTRACTOR RESPONSIBLE FOR ALL SURFACE WATER DISCHARGES - RAINFALL RUN-OFF OR DEWATERING ACTIVITIES.
16. CONTRACTOR MUST INCORPORATE ALL BMP'S NECESSARY TO MEET OR EXCEED STATE WATER QUALITY REQUIREMENTS.
17. THIS POLLUTION PREVENTION PLAN IS A MINIMUM GUIDELINE ONLY. ADDITIONAL BMP'S MAY BE NECESSARY AT CONTRACTORS EXPENSE.
18. NO TURBID DISCHARGE. TURBIDITY READINGS ARE REQUIRED ONCE A WEEK (BY THE CONTRACTOR) AND MUST BE REPORTED TO THE PROJECT ENGINEER. LOCATION SHALL BE DETERMINED BY THE ENGINEER.
19. DEWATERING ACTIVITIES:
A - DISCHARGE MUST NOT EXCEED STATE WATER QUALITY STANDARDS.
B - CONTRACTOR MUST HAVE A TRANSFERABLE SJRWMD CONSUMPTIVE USE PERMIT KNOWN AS A "NOTICED GENERAL PERMIT FOR SHORT TERM CONSTRUCTION DE-WATERING", UNLESS DE-WATERING ACTIVITIES WILL RESULT IN LESS THAN 300,000 GPD FOR 30 DAYS OR LESS.
C - NO HYDRAULIC PUMPS MAY BE USED FOR DE-WATERING UNLESS APPROVED BY THE WATER MANAGEMENT DISTRICT FOR THAT AREA. DEWATERING EXISTING STORMWATER RETENTION AREAS (PONDS/LAKES) MAY BE EXEMPT FROM THIS CONDITION. CONTRACTOR TO CONFIRM WITH SJRWMD.
D - NO TURBID DISCHARGE. TURBIDITY READINGS ARE REQUIRED ONCE A WEEK AND MUST BE REPORTED TO THE PROJECT ENGINEER.
20. THE CONTRACTOR SHALL OBTAIN GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUND WATER FROM ANY NON-CONTAMINATED SITE ACTIVITY.
A - BEFORE DISCHARGE OF PRODUCED GROUND WATER CAN OCCUR FROM THE SITE, ANALYTICAL TESTS ON SAMPLES OF THE PROPOSED UNTREATED DISCHARGE WATER SHALL BE PERFORMED TO DETERMINE IF CONTAMINATION EXISTS BY CONTRACTOR). IF NONE EXISTS, THE RESULTS SHALL BE SUBMITTED TO THE FDEP INDUSTRIAL WASTEWATER PERMITTING WITHIN ONE WEEK OF COMMENCEMENT OF DISCHARGE (C.O. ALI KAZI, P.E., 3319 MAGUIRE BLVD. SUITE 232, ORLANDO, FL. 32803). WITH A LETTER NOTIFYING THE AGENCY THAT DE-WATERING ACTIVITIES WILL COMMENCE PURSUANT TO 62-621.300(2) F.A.C. AND THE SITE QUALIFIES FOR THE GENERIC PERMIT.
B - THE FACILITY IS AUTHORIZED TO DISCHARGE PRODUCED GROUND WATER FROM ANY NON-CONTAMINATED SITE ACTIVITY WHICH DISCHARGES BY A POINT SOURCE TO SURFACE WATERS OF THE STATE, AS DEFINED IN CHAPTER62-620, F.A.C., ONLY IF THE REPORTED VALUES FOR THE PARAMETERS LISTED IN TABLE 1 DO NOT EXCEED ANY OF THE LISTED SCREENING VALUES.
C - MINIMUM REPORTING REQUIREMENTS FOR ALL PRODUCED GROUND WATER DISCHARGERS. THE EFFLUENT SHALL BE SAMPLED (BY CONTRACTOR) BEFORE THE COMMENCEMENT OF DISCHARGE, AGAIN WITHIN THIRTY (30)DAYS AFTER COMMENCEMENT OF DISCHARGE, AND THEN ONCE EVERY SIX (6)MONTHS FOR THE LIFE OF THE PROJECT TO MAINTAIN CONTINUED COVERAGE UNDER THIS GENERIC PERMIT.SAMPLES TAKEN IN COMPLIANCE WITH THE PROVISIONS OF THIS PERMIT SHALL BE TAKEN PRIOR TO ACTUAL DISCHARGE OR MIXING WITH THE RECEIVING WATERS. THE EFFLUENT SHALL BE SAMPLED FOR THE PARAMETERS LISTED ON TABLE 1.
D - IF ANY OF THE ANALYTICAL TEST RESULTS EXCEED THE SCREENING VALUES LISTED IN TABLE 1, EXCEPT TOC, THE DISCHARGE IS NOT AUTHORIZED BY THIS PERMIT. IF T.O.C. IS EXCEEDED BECAUSE OF NATURALLY OCCURING ORGANIC COMPOUNDS, THE RESULT AND EXPLANATION FOR THE HIGH READING MUST BE SUBMITTED TO THE FDEP FOR REVIEW AND ISSUANCE OF AN EXEMPTION.
E - IF ANY SCREENING VALUES (OTHER THAN TOC) EXCEED THE THRESHOLDS, THEN A GENERIC PERMIT CANNNOT BE ISSUED, AND A SEPERATE INDIVIDUAL WASTERWATER PERMIT APPLICATION MUST BE SUBMITTED AT LEAST 90 DAYS PRIOR TO DATE OF DISCHARGE. THE ENGINEER OF RECORD MUST BE NOTIFIED IF THIS OCCURS.
21. THE CONTRACTOR SHALL OBTAIN A STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES, AND SHALL ADHERE TO ALL CONDITIONS OF THE PERMIT, INCLUDING INSPECTIONS, REPORTING, RECORD KEEPING AND CERTIFICATIONS.

	SCREENING VALUES FOR DISCHARGE INTO:	
Parameter	Fresh Waters	Coastal Waters
Total Organic Carbon (TOC)	10.0 mg/L	10.0 mg/L
pH, standard units	6.0-8.5	6.5-8.5
Total Recoverable Mercury	0.012 µg/L	0.025 µg/L
Total Recoverable Cadmium	9.3 µg/L	9.3 µg/L
Total Recoverable Copper	2.9 µg/L	2.9 µg/L
Total Recoverable Lead	0.03 mg/L	5.6 mg/L
Total Recoverable Zinc	86.0 µg/L	86.0 µg/L
Total Recoverable Chromium (Hex.)	11.0 µg/L	50.0 µg/L
Benzene	1.0 µg/L	1.0 µg/L
Naphthalene	100.0 µg/L	100.0 µg/L

MARK	REVISION	DATE

DRAWING 21-032 CONST | DRAWN JBB
DESIGNED JBB | CHECKED JBB | SCALE 1"=10' | DATE 04/30/21

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CERTIFICATION OF AUTHORIZATION NO.: 00006668
1717 INDIAN RIVER BLVD., SUITE 201 VERO BEACH, FLORIDA 32960
TEL 772-770-9622 FAX 772-770-9496 EMAIL jbittle@sbsengineers.com
WEBSITE https://www.sbsengineers.com

STORMWATER POLLUTION PREVENTION DETAILS

OCEAN VILLAGE CLUBHOUSE

ENGINEER CERTIFICATION

JODAH B. BITTLE LICENSE No 57396 STATE OF FLORIDA PROFESSIONAL ENGINEER

JODAH B. BITTLE
FL. REG. NO. 57396 Jodah Bittle
DATE: 5/26/2021

PROJECT NO. 21-032 | SHEET 3

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GFA INTERNATIONAL

FLORIDA'S LEADING ENGINEERING SOURCE

Report of Geotechnical Exploration

Ocean Village Club
2400 S Ocean Drive
Fort Pierce, Florida

April 16, 2021
GFA Project No. 3330.2100065.0000

For: Proctor & Associates General Contractors, LLC



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April 16, 2021

Mr. Barrett Englert
Proctor & Associates General Contractors, LLC
200 NE Dixie Highway
Stuart, Florida 34994

Subject: Report of Geotechnical Exploration
Ocean Village Club
2400 S Ocean Drive, Fort Pierce, Florida
GFA Project No. 3330.2100065.0000

Dear Mr. Englert:

GFA International, Inc. (GFA) has completed the subsurface exploration and geotechnical engineering evaluation for the above referenced project in accordance with the geotechnical and engineering service agreement for this project. The scope of services was completed in accordance with our Geotechnical Engineering Proposal No. 21-6471.00 REV#1 dated March 11, 2021, planned in conjunction with and authorized by Proctor & Associates General Contractors, LLC.

EXECUTIVE SUMMARY

The purpose of our geotechnical exploration was to determine the nature of the subsurface soils and general geomorphic conditions at the site and evaluate their impact upon the proposed construction. This report contains the results of our subsurface exploration and our engineering interpretations of these with respect to the project characteristics described to us, including providing recommendations for foundation design, pavement design and construction, site preparation, and earthwork construction.

Per our prior telephone discussions and email correspondence with you, GFA understands that a new clubhouse and parking area are planned for the Ocean Village Club. Based on the provided Conceptual Site Plan, the existing tennis courts and clubhouse building will be demolished to accommodate the new construction.

Specific design loads for the new clubhouse building have not been provided to GFA. For the foundation recommendations presented in this report, we assumed a maximum wall loading of 5 kips per linear foot and a maximum column load of 75 kips.

The recommendations provided herein are based upon the above considerations. If the stated conditions are incorrect or if the project description is revised, please inform GFA so that we may review our recommendations with respect to any modifications.

Two (2) tripod standard penetration test (SPT) borings, advanced to approximate depths of 20 feet, and five (5) auger borings with hand cone penetrometer (HCP) testing, advanced to approximate depths of 5 and 6 feet below the existing ground surface, were completed for this study. In addition to the SPT and auger borings, one (1) field exfiltration test (EX-1) was performed within the designated dry stormwater retention area. Undisturbed Shelby tube soil samples were obtained adjacent to the exfiltration test site for laboratory falling head permeability testing.

The subsurface soil conditions encountered at the boring locations generally consisted of loose to dense fine sand (SP), fine sand with silt (SP-SM), and silty fine sand (SM) to the termination depths.

Considering the results of our field exploration program, the subsurface soil conditions at the site are generally favorable for shallow foundation support of the proposed clubhouse structure. A maximum allowable soil bearing pressure of 2,500 psf may be used for foundation design.

The subgrade soils should be improved (densified) with compaction from the stripped grade prior to constructing the building pad. **Prior to placing fill to achieve final grade, the upper 2 feet of soil below stripped grade should be compacted to a minimum of 95 percent maximum dry density as determined by the modified Proctor test (ASTM D 1557).** Fill (including stem wall backfill) should be placed in 12-inch thick lifts and compacted to achieve a minimum 95 percent modified Proctor maximum dry density. After completing the footing excavations, the bearing subgrade to a depth of 2 feet should be compacted to not less than 95 percent modified Proctor maximum dry density.

We appreciate the opportunity to be of service during this phase of the project and look forward to a continued association. Please do not hesitate to contact us if you have any questions or comments, or if we may further assist you as your plans proceed.

Respectfully Submitted,
GFA International, Inc.
Florida Registry No. 4930

John Kent — Digitally signed by John Kent, Date: 2021.04.16 16:15:29 -04'00'

This item has been digitally signed and sealed by John Kent, P.E. on the date adjacent to the seal/signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

John Kent, P.E.
Senior Project Engineer
Florida Registration No. 63218

Erik Soderstrom, E.I.
Geotechnical Department Manager

Distribution: Mr. Barrett Englert – Proctor & Associates General Contractors, LLC

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1.0 INTRODUCTION

1.1 Scope of Services

The objective of our geotechnical services was to collect subsurface data for the subject project, summarize the test results, and discuss apparent site conditions that may have geotechnical significance for the proposed construction. The following scope of services is provided within this report:

1. Prepare boring logs depicting the soil conditions encountered during our field exploration.
2. Review the soil samples obtained during our field exploration for classification and additional testing if necessary.
3. Evaluate the existing soil conditions found during our exploration with respect to foundation support for the proposed clubhouse structure.
4. Provide recommendations for foundation support of the structure, including foundation type, maximum allowable soil bearing capacity, and bearing elevations.
5. Provide recommendations for site preparation and earthwork construction.
6. Present recommended pavement sections using assumed design criteria and parameters, including guidelines for pavement subgrade preparation.
7. Provide the results of the field exfiltration testing and laboratory permeability testing.

1.2 Project Description

Per our prior telephone discussions and email correspondence with you, GFA understands that a new clubhouse and parking area are planned for the Ocean Village Club. Based on the provided Conceptual Site Plan, the existing tennis courts and clubhouse building will be demolished to accommodate the new construction.

Specific design loads for the new structure have not been provided to GFA. For the foundation recommendations presented in this report, we assumed a maximum wall loading of 5 kips per linear foot and a maximum column load of 75 kips.

The recommendations provided herein are based upon the above considerations. If the stated conditions are incorrect or if the project description is revised, please inform GFA so that we may review our recommendations with respect to any modifications.

2.0 OBSERVATIONS

2.1 Site Description

The project site is located just northwest of Mainsail Drive in Fort Pierce, Florida. At the time of our field exploration, the property was developed and was occupied by two tennis courts and a

support building. A golf course, various condominium buildings, and the Atlantic Ocean were located adjacent to the property.

2.2 Field Exploration

Two (2) tripod standard penetration test (SPT) borings, advanced to approximate depths of 20 feet, and five (5) auger borings with hand cone penetrometer (HCP) testing, advanced to approximate depths of 5 and 6 feet below the existing ground surface, were completed for this study. In addition to the SPT and auger borings, one (1) field exfiltration test (EX-1) was performed within the designated dry stormwater retention area. Undisturbed Shelby tube soil samples were obtained adjacent to the exfiltration test site for laboratory falling head permeability testing.

The Standard Penetration Tests (SPT) were performed in general accordance with ASTM D 1586, "Standard Test Method for Standard Penetration Test (SPT) and Split-Barrel Sampling of Soils." The SPT test procedure consists of driving a 1.4-inch I.D. split-barrel sampler into the soil profile using a 140-pound hammer falling 30 inches. The number of blows per foot, for the second and third 6-inch increment, is referred to as the N-value. The N-value has been empirically correlated with various soil properties and provides an indication of soil strength.

The auger borings were performed in general accordance with ASTM D 1452, "Standard Practice for Soil Exploration and Sampling by Auger Borings." Hand Cone Penetrometer (HCP) tests were conducted at approximate one-foot depth intervals in the auger borings. The HCP test, in conjunction with information about the soil type, is empirically correlated to the relative density of subsurface soils.

Site specific survey staking of the borings was not provided for our field exploration. The borings were located using the provided Conceptual Site Plan, GPS coordinates, and estimating distances and relationships to the existing tennis courts, pavement areas, and other landmarks at the property.

2.3 Laboratory Testing

Soil samples recovered from our field exploration were returned to our laboratory where they were visually classified by a geotechnical engineer in general accordance with the Unified Soil Classification System (ASTM D 2487). Falling head permeability tests were performed on the Shelby tube samples to obtain horizontal (k_h) and vertical (k_v) coefficients of permeability of the soils. The permeability test results are summarized in Table 2.3.2 below.

Table 2.3.1 – Permeability Test Results

Sample Location	Sample Depth (feet)	Sample Description	Coefficient of Permeability, k (ft/day)	
			k_h	k_v
EX-1	2 - 2.5	Brown fine sand	10.8	1.8

The recovered samples were not evaluated, either visually or analytically, for chemical composition or environmental hazards. GFA will be pleased to perform these services for an additional fee, if required.

2.4 Geomorphic Conditions

The geology of the site as mapped on the USDA Soil Survey website consists of Arents, organic substratum (6) and Canaveral fine sand, 0 to 5 percent slopes (10). Since Arents are areas where the soils have been generally altered by grading, shaping, and covered with fill, the soils can be variable. Note that the Soil Survey generally extends to a maximum depth of 80 inches below ground surface and is not indicative of deeper soil conditions.

Boring logs resulting from our field exploration are presented in Appendix D - Log of Boring Records. The logs contain the soil descriptions, the standard penetration test (SPT) N-values, and the hand cone penetrometer (HCP) values typically recorded during the drilling and sampling activities. The logs represent information from the specific boring locations only and soil conditions may vary between the strata interfaces indicated on the logs. The soil classifications and descriptions shown on the logs are based upon visual characterizations of the recovered samples using the Unified Soil Classification System. See Appendix F - Discussion of Soil Groups, for a detailed description of various soil groups.

The subsurface soil conditions encountered at the boring locations generally consisted of loose to dense fine sand (SP), fine sand with silt (SP-SM), and silty fine sand (SM) to the termination depths.

2.5 Hydrogeological Conditions

On the dates of our field exploration (March 29 and April 7, 2021), groundwater was encountered in the borings at depths ranging from approximately 4 to 5 feet below the existing ground surface. Note that the groundwater table will fluctuate seasonally depending upon local rainfall and other site specific and/or local factors, including tidal influences from the nearby Atlantic Ocean. Brief ponding of stormwater may occur across the site after heavy or extended rainfall events.

During our field exploration, we performed one (1) auger boring and accompanying exfiltration test (EX-1) at the approximate location illustrated on the Test Location Plan in Appendix B. The test was conducted in general accordance with the South Florida Water Management District method for open hole constant head field testing. The hydraulic conductivity (K) value determined at test location EX-1 was 2.44 X 10^{-3} cfs/ft-ft. These test results are also presented in Appendix E - Exfiltration Test Results.

3.0 ENGINEERING EVALUATION AND RECOMMENDATIONS

3.1 General

Our geotechnical engineering evaluation of the site and subsurface conditions at the property, with respect to the planned construction, and our recommendations for site preparation, foundation support, pavement design, and earthwork construction, are based upon (1) our site observations, (2) the field data obtained, and (3) our understanding of the project information and structural conditions as presented in this report. If the stated conditions are incorrect, or if the project description is revised, please inform GFA so that we may review our recommendations with respect to any modifications.

We note that the applicability of geotechnical recommendations is very dependent upon project characteristics, specifically (1) improvement locations, (2) grade alterations, (3) and actual applied structural loads. For that reason, GFA must be provided with and review the preliminary and final site and grading plans, and structural design loads to validate all recommendations provided in this report. Without performing this review, our recommendations should not be relied upon for final design or construction of any site improvements.

3.2 Site Preparation

GFA recommends the following compaction requirements for this project:

- Proof Roll ..... 95 percent of modified Proctor
- Building Pad Fill ..... 95 percent of modified Proctor
- Footings ..... 95 percent of modified Proctor

The above compaction percentages are based upon the maximum dry density as determined by the modified Proctor test (ASTM D 1557). **All density tests should be performed to a depth of 2 feet below stripped surface and bottom of footings.** Density testing should be performed using either the nuclear method (ASTM D 6938) or the sand cone method (ASTM D 1556). Hand Cone Penetrometer (HCP) tests can also be performed to evaluate compaction.

Our recommendations for preparation of the site for use of shallow foundation systems are presented below. This approach to improving and maintaining site soils has been found to be successful on projects having similar soil conditions.

1. Initial site preparation should consist of removing vegetation, topsoil, near surface roots, existing pavement, and other miscellaneous debris within and to a distance of 5 feet beyond of the planned construction limits. Foundations and the below grade remains of former structures within the footprint of the new construction should also be removed. Similarly, irrigation and utility lines within the limits of the proposed construction should be removed or properly abandoned so that they will not adversely impact overlying structures.
2. Following site stripping and prior to the placement of fill, areas of surficial sand should be compacted (proof rolled) and tested. We recommend using a steel drum vibratory roller with sufficient static weight and vibratory impact energy to achieve the required compaction. Density tests should be performed on the proof rolled surface at a frequency of not less than one test per 2,500 square feet, or a minimum of three (3) tests, whichever is greater.
3. Fill material may then be placed for the building pad and general site grading, as required. The fill should be inorganic (i.e., contain less than 5 percent by weight organic material) and classified as SP, SW, GP, GW, SP-SM, SW-SM, GW-GP, or GP-GM. **GFA does not recommend using fill material having silt/clay-size soil fines contents exceeding 12 percent.** Fill should be placed in lifts having a maximum thickness of 12-inches. Each lift should be compacted and tested prior to the placement of the next lift. Density tests should be performed within the fill at a frequency of not less than one test per 2,500 square feet per lift in building areas, or a minimum of three (3) tests per lift, whichever is greater.

4. For foundations placed on structural fill or compacted native granular soils, the bearing subgrade should be tested for compaction and observed by an engineer or geologist or his/her representative to determine if the soil is free of organic and/or deleterious material. Density tests should be performed at a frequency of not less than one (1) density test per each isolated column footing and one (1) test per each 75 lineal feet of wall footing.
5. The contractor should consider the final grading contours contained in the project plans when executing backfilling and compaction operations.

3.3 Vibration Monitoring

Using vibratory compaction equipment at this site may disturb adjacent or nearby structures. We recommend that these structures be monitored by GFA both before and during compaction operations. A proposal for providing vibration monitoring services during earthwork construction will be provided upon request.

3.4 Design of Footings

A foundation system for any structure must be designed to resist bearing capacity failures, have settlements that are tolerable, and resist the environmental forces that the foundation may be subjected to over the life of the structure. The soil bearing capacity is the soil's ability to support loads without plunging into the soil profile. Bearing capacity failures are analogous to shear failures in structural design and are usually sudden and catastrophic.

Based on the results of the soil borings performed at the site, GFA recommends structure foundations be designed using a maximum allowable soil bearing pressure of 2,500 psf. Conventional shallow foundations and thickened-edge slab foundation systems should be embedded at least 12 inches below lowest adjacent grade. Furthermore, maintain minimum foundation widths of 18 and 24 inches for isolated strip and square footings, respectively, even if the maximum allowable soil bearing pressure is not developed in all cases.

Once site preparation has been performed in accordance with the recommendations described in this report, the soils should readily support the proposed structure bearing upon a properly designed and constructed shallow foundation system. Footings and columns should be structurally separated from the ground floor slab, as they will be loaded differently and at different times, unless a monolithic slab foundation is designed.

3.5 Settlement Estimates

Post construction settlements of the structure will be influenced by several interrelated factors, including (1) subsurface soil stratification and the strength/compressibility characteristics, (2) footing size, bearing level, applied loads, and resulting bearing pressure beneath the footings, and (3) the site preparation and earthwork construction techniques used by the contractor. Our settlement estimates for the proposed construction are based on the use of the site preparation and earthwork construction methods recommended in this report. Any deviation from these recommendations could result in an increase in the estimated post-construction settlements of the proposed construction.

We expect the majority of settlement to occur in an elastic manner and fairly rapidly during construction. Using the recommended maximum bearing pressure, the assumed maximum structural loads, and the field test data that we have correlated geotechnical strength and compressibility characteristics of the subsurface soils, we estimate that total settlements of the structure could be on the order of one (1) inch or less.

Differential settlements result from differences in applied bearing pressures and variations in the compressibility characteristics of the subsurface soils. Because of the general uniformity of the subsurface conditions and the recommended site preparation and earthwork construction methods presented in this report, we anticipate that differential settlements of the structure should be within tolerable magnitudes (0.5 inch or less).

3.6 Ground Floor Slabs

The clubhouse ground floor slab may be constructed upon existing grade or granular fill after completion of the foundation site preparation and fill placement procedures outlined in this report. We recommend that a modulus of subgrade reaction (k) of 150 pounds per cubic inch (pci) be considered during design. The floor slab should be structurally separated from walls and columns to allow for differential vertical movement, unless a monolithic slab foundation is designed.

Excessive moisture vapor transmission through foundation slabs can result in damage to floor coverings as well as cause other deleterious affects. An appropriate moisture vapor barrier should be placed beneath the slab to reduce moisture vapor from entering the structure through the slab. The barrier should be installed in general accordance with applicable ASTM procedures including sealing around pipe penetrations and at the foundation edges.

4.0 PAVEMENT DESIGN AND CONSTRUCTION CONSIDERATIONS

4.1 Pavement Design Sections

The pavement sections were designed based on assumed traffic loading criteria and previous experience with similar projects. Flexible pavement sections in this geographic area typically consist of an asphaltic wearing course, a base course, and a stabilized subgrade layer. Rigid pavements are constructed either directly upon prepared soil subgrades or upon a base course and stabilized subgrade for heavier loads.

Based on our experience and assumed traffic loading criteria, recommended pavement section thicknesses are provided in Table 4.1.1 below.

Table 4.1.1 - Design Pavement Sections

Pavement Type	Layer	Material Description	Layer Thickness	
			Light Duty	Heavy Duty
Flexible	(A)	Asphalt Wearing Surface FDOT SP-9.5 or SP-12.5	1.5	2.5
	(B)	Base rock (minimum LBR of 100), compacted to 98 percent of modified Proctor maximum dry density	6	8
	(SSG)	Stabilized subgrade (minimum LBR of 40), compacted to 98 percent of modified Proctor maximum dry density	12	12
		STRUCTURAL NUMBER (SN)	**2.7**	**3.5**
Rigid	(C)	FDOT Portland Cement Concrete	NA	8
	(B)	Base rock (minimum LBR of 100), compacted to 98 percent of modified Proctor maximum dry density	NA	-
	(CSG)	Soil subgrade compacted to 98 percent of modified Proctor maximum dry density	NA	12

4.2 Compacted Subgrade or Embankment Fill

The subgrade or embankment fill is the layer that supports the structural pavement section. Subgrade and embankment fill should be constructed following the criteria and procedures presented in Section 4.9 of this report.

4.3 Stabilized Subgrade

The stabilized subgrade is the portion of the pavement section between the compacted subgrade (embankment fill) and the base course. The stabilized subgrade should be compacted to at least 98 percent of modified Proctor maximum dry density (AASHTO T-180). The material should have a minimum Limerock Bearing Ratio (LBR) value of 40. Alternatively, the pavement section can be designed using native on-site soils having a lower LBR value. In this case, an LBR test of the native soils is performed and incorporated into a modified pavement design. Compliance tests should be performed on the stabilized subgrade for full depth at a frequency of one test per 5,000 square feet, or at a minimum of two test locations, whichever is greater.

4.4 Base Course

The base course is the portion of the pavement section between the surface course and stabilized subgrade. In areas where separation of at least 1.5 feet between the estimated wet seasonal high groundwater table and the bottom of the base material occurs, we recommend the base course be limerock or cemented coquina having a minimum Limerock Bearing Ratio (LBR) value of 100. The base material should be obtained from an approved source. The base material should be placed in maximum 6-inch-thick lifts and compacted to at least 98 percent of modified Proctor maximum dry density (AASHTO T-180).

If the separation between the estimated wet seasonal high groundwater table and the bottom of the base material is less than 1.5 feet, we recommend that asphaltic concrete base (FDOT SP-12.5) be used in lieu of limerock or cemented coquina. The subgrade should be mechanically stabilized (compacted) to a minimum of 98 percent of modified Proctor maximum dry density (AASHTO T-180). Compliance tests should be performed on the base course at a frequency of one test per 5,000 square feet, or a minimum of two test locations, whichever is greater.

4.5 Flexible (Asphalt) Pavement

Asphalt pavement should consist of either FDOT SP-9.5 or SP-12.5 asphaltic concrete. The mixes should be a current FDOT approved design for the materials used for the project. Samples of the materials delivered to the project should be tested to verify that the aggregate gradation and asphalt content satisfies the mix design specifications.

The asphalt should be compacted to meet the requirements of the latest edition of the FDOT Standard Specifications for Road and Bridge Construction. Compliance tests should be performed by obtaining cores to evaluate material thickness and density at a frequency of one test per 10,000 square feet, or a minimum of two test locations, whichever is greater.

4.6 Rigid (Concrete) Pavement

Rigid pavements should be constructed using concrete having a minimum 28-day compressive strength of 4,000 psi. Fill required to raise grades in pavement areas should be compacted to at least 98 percent of modified Proctor maximum dry density (AASHTO T-180).

The pavement slabs should be reinforced to make them as rigid as practical. Proper joints should be provided at the junctions of slabs so that a small amount of independent movement can without causing structural damage. Construction and control joints should be accordance with current American Concrete Institute (ACI) and industry practices.

The pavement sections presented in this report are minimum pavement section thicknesses typically used for similar type projects. The pavement materials and construction procedures should conform to FDOT, ACI, or appropriate city/county requirements.

4.7 Effects of Water

Premature pavement section deterioration can occur due to intrusion of the wet season high groundwater table and/or improper surface water runoff management. We recommend the pavement areas be constructed to have a minimum separation of 1.5 feet between the wet season high groundwater table and the base course, regardless of the type of base material. In addition, we recommend that the parking areas be constructed with full-depth curb sections. Using either extruded curb sections, which lie directly on top of the final surface course, or eliminating the curbing entirely, may allow runoff and/or irrigation water to migrate between the base and surface course. This condition can result in the separation of the surface course from the base course, causing a rippling effect, which results in premature deterioration of the pavement.

4.8 Construction Traffic

Incomplete pavement sections or pavement areas designed for light duty traffic will not perform satisfactory under construction traffic loading. We recommend that all construction traffic (i.e., construction equipment, vehicles, etc.) either be re-routed away from these areas or the pavement sections be designed to support construction phase loading conditions.

4.9 Pavement Site Preparation

Our recommendations for preparation of the site for pavement construction are noted below. This approach to improving and maintaining site soils has been found to be successful with similar soil conditions.

1. The construction limits should be cleared, stripped, and grubbed of all construction debris and existing pavement, topsoil, vegetation, and associated root systems to depths of their vertical reaches. This should be performed within and to a distance of 5 feet beyond the limits of the pavement areas.
2. Prior to initiating fill operations, the existing ground surface should be proof-rolled and compacted as discussed in Section 3.2 of this report. After completing the proof rolling and compaction operations, density tests should be performed at a frequency of one test per 5,000 square feet, or at a minimum of two test locations, whichever is greater, to confirm a minimum compaction compliance of 98 percent of modified Proctor maximum dry density (AASHTO T-180).
3. Fill material should be inorganic (classified as SP/GW) containing not more than 5 percent (by weight) fibrous organic materials. Fill material having silt/clay-size fines contents greater than 5 percent should not be used, including cyclone sand material. The fill should be placed in maximum 12-inch-thick lifts. Each lift should be compacted to a minimum density of 98 percent of modified Proctor maximum dry density (AASHTO T-180).
4. Compliance density tests should be performed within the fill at a frequency of not less than one test per 5,000 square feet per lift; or at a minimum of two test locations, whichever is greater.
5. Representative samples of both on-site and potential import materials proposed for use as fill should be obtained and tested to determine compliance with the project specifications. The testing should include moisture-density relations (AASHTO T-180) and particle size analysis.
6. The contractor should consider the final grading contours established by the site grading, paving, and drainage plans when executing backfilling and compaction operations.

5.0 REPORT LIMITATIONS

This consulting report has been prepared for the exclusive use of Proctor & Associates General Contractors, LLC and members of the design team for the planned construction at the Ocean Village Club located at 2400 S Ocean Drive in Fort Pierce Florida. This report has been prepared in accordance with generally accepted local geotechnical engineering practices; no other warranty, either express or implied, is made.

The evaluation submitted in this report is based in part upon the data collected during a field exploration. However, the nature and extent of variations throughout the subsurface profile may not become evident until construction. If variations then appear evident, it may be necessary to reevaluate information and professional opinions provided in this report. In the event changes are made in the nature, design, or location of the proposed construction, the evaluation and opinions contained in this report should not be considered valid unless the changes are reviewed, and conclusions modified or verified in writing by GFA.

GFA should be provided the opportunity to review the final civil plans, structural plans, and project specifications to determine if GFA's recommendations have been properly interpreted, communicated, and implemented. If GFA is not afforded the opportunity to participate in construction related aspects of overall site grading and foundation installation as recommended in this report or any report addendum, GFA cannot accept responsibility for the interpretation of our recommendations made in this report or in a report addendum for foundation performance.

6.0 BASIS FOR RECOMMENDATIONS

The analysis and recommendations submitted in this report are based on the data obtained from the borings performed at the locations indicated on the Test Location Plan in Appendix B. This report does not reflect any variations which may occur between borings. While the borings are representative of the subsurface conditions at their respective locations and for their vertical reaches, local variations characteristic of the subsurface soils of the region are anticipated and may be encountered. The delineation between soil types shown on the boring logs is approximate and the descriptions represent our interpretation of the subsurface conditions at the designated boring locations on the specific dates drilled.

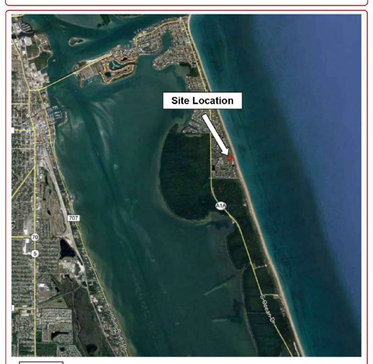
Any third-party reliance of our geotechnical report or parts thereof is strictly prohibited without the expressed written consent of GFA International, Inc. The applicable SPT methodology (ASTM D 1586) and auger boring methodology (ASTM D 1452) used in performing our borings, and for determining penetration resistance and soil relative density, is specific to the sampling tools utilized and does not reflect the ease or difficulty to advance other tools or materials.

Appendix A - Vicinity Map

Site Vicinity Map

Ocean Village Clubhouse and Courts Replacement
2400 S Ocean Drive, Fort Pierce, Florida

PROJECT NO: 3330.2100065.0000 **DRAFTED BY: JR** **REVIEWED BY: JK** **DATE: 4/9/2021**



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Appendix B - Test Location Plan

Test Location Plan

Ocean Village Clubhouse and Courts Replacement
2400 S Ocean Drive, Fort Pierce, Florida

PROJECT NO: 3330.2100065.0000 **DRAFTED BY: JR** **REVIEWED BY: JK** **DATE: 4/9/2021**



Legend
- Approximate 20' Standard Penetration Test Boring Locations
- Approximate Auger Boring Locations
- Approximate Exfiltration Test Location

UNIVERSAL ENGINEERING SCIENCES

DATE	REVISION	MARK

DRAWING 21-032 CONST | DRAWN JBB
DESIGNED JBB
CHECKED JBB
SCALE NTS | DATE 04/30/21

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CERTIFICATION OF AUTHORIZATION NO.: 00006668
1717 INDIAN RIVER BLVD., SUITE 201 VERO BEACH, FLORIDA 32960
TEL 772-770-9622 FAX 772-770-9496 EMAIL jbittle@sbsengineers.com
WEBSITE https://www.sbsengineers.com

SOIL BORINGS

OCEAN VILLAGE CLUBHOUSE

ENGINEER CERTIFICATION

JODAH B. BITTLE
STATE OF FLORIDA
PROFESSIONAL ENGINEER
No 57396

JODAH B. BITTLE
FL. REG. NO. 57396

DATE: 5/26/2021
PROJECT NO. 21-032
SHEET 04A

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Appendix C - Notes Related to Borings

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NOTES RELATED TO BORING RECORDS AND GENERALIZED SUBSURFACE PROFILES

1. Groundwater levels (if encountered) were recorded either during or following the boring completion on the date indicated. Fluctuations in groundwater levels are common - see the report text for a discussion.
2. The boring locations were identified in the field by estimated distances and offsets from existing reference marks and/or other site landmarks.
3. The completed boreholes were backfilled to adjacent site grade using drilling spoils and patched with asphalt cold mix in pavement areas.
4. The Log of Boring records represent our interpretation of soil conditions based on visual classification of the soil samples recovered from the borings.
5. The Log of Boring records are subject to the limitations, conclusions, and recommendations presented in the report text.
6. The Standard Penetration Test (SPT) N-values contained on the Log of Boring records refer to the total blow counts of a 140-pound drop hammer falling 30 inches required to drive a split-barrel sampler a total distance of 12 inches into soil strata at specific depth intervals.
7. The Hand Cone Penetrometer (HCP) values contained on Log of Boring records and the Cone Penetration Test (CPT) values contained on the Cone Penetration Sounding logs refer to the cone tip resistance recorded when pushing the cone tip into the soil strata at specific depth intervals.
8. The soil and/or rock strata interfaces shown on the Log of Boring records are approximate and may vary from those shown on the logs. The soil and/or rock descriptions shown on the Log of Boring records refer to conditions at the specific location tested. Soil/rock conditions may vary between test locations.
9. Relative density for coarse-grained soils (sands/gravels) and consistency for fine-grained soils (silts/clays) are described as follows:

Coarse Grained Soils (Sands and Gravels)				Fine Grained Soils (Silts and Clays)			
SPT N-Value	HCP Value (kg/cm^2)	CPT Value (tsf)	Relative Density	SPT N-Value	HCP Value (kg/cm^2)	CPT Value (tsf)	Consistency
0-4	0-16	0-20	Very Loose	0-2	0-20	0-3	Very Soft
5-10	17-36	21-40	Loose	3-4	21-35	4-6	Soft
11-30	37-116	41-120	Med. Dense	5-8	>35	7-12	Firm
31-50	117-196	121-200	Dense	9-15		13-25	Stiff
>50	> 196	>200	Very Dense	16-30		26-50	Very Stiff
				>30		>50	Hard

10. Grain size descriptions are as follows:

Description	Particle Size Limits
Boulder	Greater than 12 inches
Cobble	3 to 12 inches
Coarse Gravel	$^{3}/_{4}$ to 3 inches
Fine Gravel	No. 4 sieve to $^{3}/_{4}$ inch
Coarse Sand	No. 10 to No. 4 sieve
Medium Sand	No. 40 to No. 10 sieve
Fine Sand	No. 200 to No. 40 sieve
Fines (Silt/Clay)	Smaller than No. 200 sieve

11. Definitions for modifiers used in soil/rock descriptions:

Proportion	Modifier	Approximate Root Diameter	Modifier
<5%	Trace	Less than $^{1}/_{32}$"	Fine roots
5% to 12%	Little	$^{1}/_{32}$" to $^{1}/_{4}$"	Small roots
12% to 30%	Some	$^{1}/_{4}$" to 1"	Medium roots
30% to 50%	And	Greater than 1"	Large roots

Organic Soils: Soils containing vegetative tissue in various stages of decomposition having a fibrous to amorphous texture. Usually having a dark brown to black color and an organic odor.
Organic Content Modifiers: <25%: Slightly to Highly Organic; 25% to 75%: Muck; >75%: Peat

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Appendix D - Log of Boring Records

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LOG OF BORING B-1

PAGE 1 OF 1

Universal Engineering Sciences
607 NW Commodity Cove
Port Saint Lucie, Florida 34986
(772) 924-3575

CLIENT Proctor & Associates General Contractors, LLC
PROJECT NUMBER 3330.2100065.0000
DRILLING CONTRACTOR Universal Engineering Sciences
DRILLER PM/LC/RV/MJ
DRILL RIG Tripod
METHOD SPT
NOTE:
PROJECT NAME Ocean Village Clubhouse & Courts Replacement
PROJECT LOCATION 2400 S Ocean Drive, Fort Pierce, Florida
HOLE DEPTH 20 ft HOLE DIAMETER 3 in
DATE STARTED 4/7/21 COMPLETED 4/7/21
GROUND WATER LEVEL: ∇ AT TIME OF DRILLING 4.00 ft
LATITUDE LONGITUDE
HAMMER TYPE

SAMPLE NUMBER	BLOW COUNTS	N VALUE
1	80 70	
2	30 50	
3	13 15 10 7	25
4	5 8 10 10	18
5	11 9 10 8	19
6	9 14 12	26
7	25 37 25	62

DEPTH (ft)	MATERIAL DESCRIPTION
0.2	Tennis Court top (2")
0.8	Base rock (6")
	Light brown fine sand (SP)
2.0	Gray fine sand, trace shell (SP)
9.5	Gray silty fine sand (SM)
13.5	Gray silty fine sand, trace shell (SM)
18.5	Gray fine sand, little shell (SP)
20.0	

Bottom of borehole at 20.0 feet.

LOG OF BORING B-2

PAGE 1 OF 1

Universal Engineering Sciences
607 NW Commodity Cove
Port Saint Lucie, Florida 34986
(772) 924-3575

CLIENT Proctor & Associates General Contractors, LLC
PROJECT NUMBER 3330.2100065.0000
DRILLING CONTRACTOR Universal Engineering Sciences
DRILLER PM/LC/RV/MJ
DRILL RIG Tripod
METHOD SPT
NOTE:
PROJECT NAME Ocean Village Clubhouse & Courts Replacement
PROJECT LOCATION 2400 S Ocean Drive, Fort Pierce, Florida
HOLE DEPTH 20 ft HOLE DIAMETER 3 in
DATE STARTED 4/7/21 COMPLETED 4/7/21
GROUND WATER LEVEL: ∇ AT TIME OF DRILLING 4.00 ft
LATITUDE LONGITUDE
HAMMER TYPE

SAMPLE NUMBER	BLOW COUNTS	N VALUE
1	80 80	
2	80 80	
3	5 5 6 11	11
4	10 11 16 14	27
5	10 14 9 9	23
6	12 12 13	25
7	24 29 30	59

DEPTH (ft)	MATERIAL DESCRIPTION
0.2	Tennis Court top (2")
0.8	Base rock (6")
	Brown fine sand (SP)
5.5	Gray fine sand, trace shell (SP)
13.5	Gray fine sand, little shell (SP)
20.0	

Bottom of borehole at 20.0 feet.

LOG OF BORING AB-1

PAGE 1 OF 1

Universal Engineering Sciences
607 NW Commodity Cove
Port Saint Lucie, Florida 34986
(772) 924-3575

CLIENT Proctor & Associates General Contractors, LLC
PROJECT NUMBER 3330.2100065.0000
DATE STARTED 3/29/21 COMPLETED 3/29/21
DRILLING CONTRACTOR Universal Engineering Sciences
DRILLING METHOD Auger Boring
DRILLER JB/RV/MJ
NOTES
PROJECT NAME Ocean Village Clubhouse & Courts Replacement
PROJECT LOCATION 2400 S Ocean Drive, Fort Pierce, Florida
LATITUDE LONGITUDE
GROUND WATER LEVELS:
∇ AT TIME OF DRILLING 5.00 ft
AT END OF ---
ESHGT

HAND CONE PENETROMETER (HCP) (tsf): 80, 70, 70, 80, 80

DEPTH (ft)	MATERIAL DESCRIPTION
0	Light brown fine sand (SP)
3.0	Brown fine sand (SP)
4.0	Gray fine sand, little shell and rock (SP)
4.5	Gray fine sand, trace shell, little rock (SP)
5.0 ∇	

Bottom of borehole at 5.0 feet.

LOG OF BORING AB-2

PAGE 1 OF 1

Universal Engineering Sciences
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CLIENT Proctor & Associates General Contractors, LLC
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DATE STARTED 3/29/21 COMPLETED 3/29/21
DRILLING CONTRACTOR Universal Engineering Sciences
DRILLING METHOD Auger Boring
DRILLER JB/RV/MJ
NOTES
PROJECT NAME Ocean Village Clubhouse & Courts Replacement
PROJECT LOCATION 2400 S Ocean Drive, Fort Pierce, Florida
LATITUDE LONGITUDE
GROUND WATER LEVELS:
∇ AT TIME OF DRILLING 5.00 ft
AT END OF ---
ESHGT

HAND CONE PENETROMETER (HCP) (tsf): 80, 70, 60, 40, 40, 40

DEPTH (ft)	MATERIAL DESCRIPTION
0	Brown fine sand (SP)
3.5	Gray fine sand (SP)
5.0 ∇	Brown fine sand with silt (SP-SM)
6.0	

Bottom of borehole at 6.0 feet.

LOG OF BORING AB-3

PAGE 1 OF 1

Universal Engineering Sciences
607 NW Commodity Cove
Port Saint Lucie, Florida 34986
(772) 924-3575

CLIENT Proctor & Associates General Contractors, LLC
PROJECT NUMBER 3330.2100065.0000
DATE STARTED 3/29/21 COMPLETED 3/29/21
DRILLING CONTRACTOR Universal Engineering Sciences
DRILLING METHOD Auger Boring
DRILLER JB/RV/MJ
NOTES
PROJECT NAME Ocean Village Clubhouse & Courts Replacement
PROJECT LOCATION 2400 S Ocean Drive, Fort Pierce, Florida
LATITUDE LONGITUDE
GROUND WATER LEVELS:
∇ AT TIME OF DRILLING 5.00 ft
AT END OF ---
ESHGT

HAND CONE PENETROMETER (HCP) (tsf): 80, 80, 70, 70, 80

DEPTH (ft)	MATERIAL DESCRIPTION
0	Brown fine sand (SP)
3.0	Gray fine sand, little shell and rock (SP)
5.0 ∇	

Bottom of borehole at 5.0 feet.

LOG OF BORING AB-4

PAGE 1 OF 1

Universal Engineering Sciences
607 NW Commodity Cove
Port Saint Lucie, Florida 34986
(772) 924-3575

CLIENT Proctor & Associates General Contractors, LLC
PROJECT NUMBER 3330.2100065.0000
DATE STARTED 3/29/21 COMPLETED 3/29/21
DRILLING CONTRACTOR Universal Engineering Sciences
DRILLING METHOD Auger Boring
DRILLER JB/RV/MJ
NOTES
PROJECT NAME Ocean Village Clubhouse & Courts Replacement
PROJECT LOCATION 2400 S Ocean Drive, Fort Pierce, Florida
LATITUDE LONGITUDE
GROUND WATER LEVELS:
∇ AT TIME OF DRILLING 5.00 ft
AT END OF ---
ESHGT

HAND CONE PENETROMETER (HCP) (tsf): 70, 70, 60, 60, 80, 80

DEPTH (ft)	MATERIAL DESCRIPTION
0	Brown fine sand (SP)
4.5	Gray fine sand, little shell (SP)
6.0	

Bottom of borehole at 6.0 feet.

LOG OF BORING AB-5

PAGE 1 OF 1

Universal Engineering Sciences
607 NW Commodity Cove
Port Saint Lucie, Florida 34986
(772) 924-3575

CLIENT Proctor & Associates General Contractors, LLC
PROJECT NUMBER 3330.2100065.0000
DATE STARTED 3/29/21 COMPLETED 3/29/21
DRILLING CONTRACTOR Universal Engineering Sciences
DRILLING METHOD Auger Boring
DRILLER JB/RV/MJ
NOTES
PROJECT NAME Ocean Village Clubhouse & Courts Replacement
PROJECT LOCATION 2400 S Ocean Drive, Fort Pierce, Florida
LATITUDE LONGITUDE
GROUND WATER LEVELS:
∇ AT TIME OF DRILLING 5.00 ft
AT END OF ---
ESHGT

HAND CONE PENETROMETER (HCP) (tsf): 80, 60, 60, 60, 70, 80

DEPTH (ft)	MATERIAL DESCRIPTION
0	Brown fine sand (SP)
5.0 ∇	Gray fine sand, trace shell (SP)
6.0	

Bottom of borehole at 6.0 feet.

Appendix E - Hydraulic Conductivity Results

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EXFILTRATION TEST REPORT

South Florida Water Management District - Usual Open Hole Test

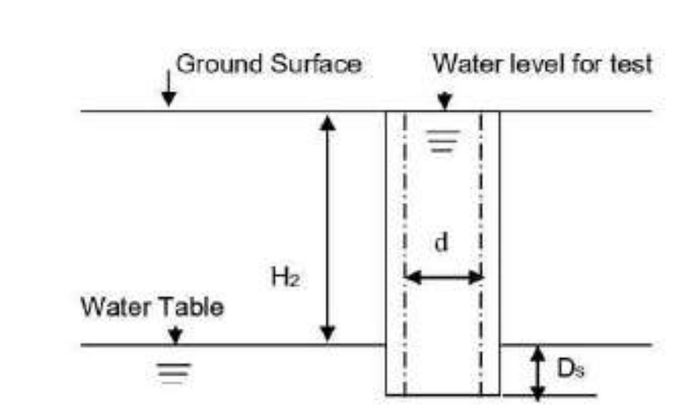
Client: Proctor & Associates General Contractors, LLC **Project No:** 3330.2100065.0000

Project: Ocean Village Club, 2400 S Ocean Drive, Fort Pierce, Florida **Test Date:** 4/16/2021 **Technician:** PM

SOIL PROFILE

Test Location: EX-1	Depth (feet)	Soil Description	HCP
	0 - 2	Dark brown fine sand, trace silt (SP)	60
	2 - 6	Light brown fine sand, trace shell (SP)	70
			80
			80
			80
			80
	Depth to Water Table from Ground Surface (feet)		2.3

CALCULATION OF HYDRAULIC CONDUCTIVITY



$$K = \frac{4Q}{\pi d(2H_2^2 + 4H_2D_s + H_2d)}$$

K	Hydraulic Conductivity (cfs/ ft^2 – ft head)	2.44×10^{-04}
Q	Stabilized Flow Rate (cubic ft per second)	2.90×10^{-03}
d	Diameter of Test Hole (feet)	0.33
H_2	Depth to Water Table (feet)	2.3
D_s	Saturated Hole Depth (feet)	3.7
Notes:		

GFA

Appendix F - Discussion of Soil Groups

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DISCUSSION OF SOIL GROUPS

COARSE GRAINED SOILS

General. A soil is classified as coarse-grained if more than 50 percent of a representative sample of the material is retained on the No. 200 sieve.

GW and SW Groups. These groups comprise well-graded gravelly and sandy soils containing little or no plastic fines (less than 5 percent passing the No. 200 sieve). The low fines content does not noticeably change the shear strength characteristics of these soils and does not interfere with their free-draining characteristics.

GP and SP Groups. Poorly graded gravels and sands containing little or no plastic fines (less than 5 percent passing the No. 200 sieve) are in the GP and SP groups. The materials can be called uniform gravels, uniform sands, or non-uniform mixtures of very coarse materials and very fine sand, with intermediate sizes lacking (sometimes called skip-graded, gap-graded, or step-graded). This last group often results from borrow pit excavation in which gravel and sand layers are mixed.

GM and SM Groups. In general, the GM and SM groups comprise gravels or sands with fines (more than 12 percent passing the No. 200 sieve) having little or no plasticity. The plasticity index and liquid limit of soils in these groups plot below the "A" line on the plasticity chart. The gradation of the material is not considered significant and both well and poorly graded materials are included.

GC and SC Groups. In general, the GC and SC groups comprise gravelly or sandy soils containing fines (more than 12 percent passing the No, 200 sieve) having plasticity characteristics. The plasticity index and liquid limit of soils in these groups plot above the "A" line on the plasticity chart.

FINE GRAINED SOILS

General. A soil is classified as fine-grained if more than 50 percent of a representative sample of the material passes the No. 200 sieve.

ML and MH Groups. These groups comprise inorganic silts (ML) and elastic silts (MH) having either low (L) or high (H) liquid limits, respectively. ML soils have a liquid limit of less than 50 while MH soils have a liquid limit of 50 and greater. Silts and elastic silts can also contain varying amounts of sand and gravel. Also included in this group are loess sediments and rock flours.

CL and CH Groups. These groups comprise low plasticity (lean) clays (CL) and medium to high plasticity (fat) clays (CH) having either low (L) or high (H) liquid limits, respectively. CL soils have a liquid limit of less than 50 while CH soils have a liquid limit of 50 and greater. The low plasticity clays can also be sandy clays or silty clays. The moderate to high plasticity clays can also be sandy clays and include some volcanic clays.

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OL and OH Groups. These groups comprise organic silts and clays. The soils are characterized by the presence of organic odor and/or dark color. The OL and OH soils are differentiated by determining and comparing their liquid limit values before and after oven drying representative soil samples.

HIGHLY ORGANIC SOILS

The highly organic soils are usually very soft and compressible and have undesirable construction characteristics. Particles of leaves, grasses, branches, or other fibrous vegetative matter are common components of these soils. They are not subdivided and are classified into one group with the symbol PT. Peat humus and swamp soils with a highly organic texture are typical soils of the group.

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DATE	REVISION	MARK

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DESIGNED JBB DRAWN JBB
CHECKED JBB
SCALE NTS DATE 04/30/21

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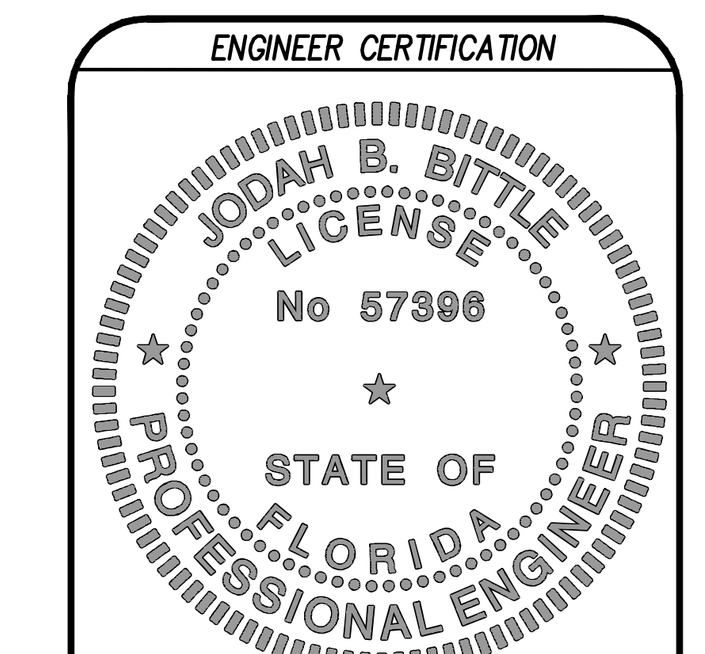
SOIL BORINGS

OCEAN VILLAGE CLUBHOUSE

ENGINEER CERTIFICATION



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FL. REG. NO. 57396
DATE: 5/26/2021

PROJECT NO. 21-032 SHEET 04B

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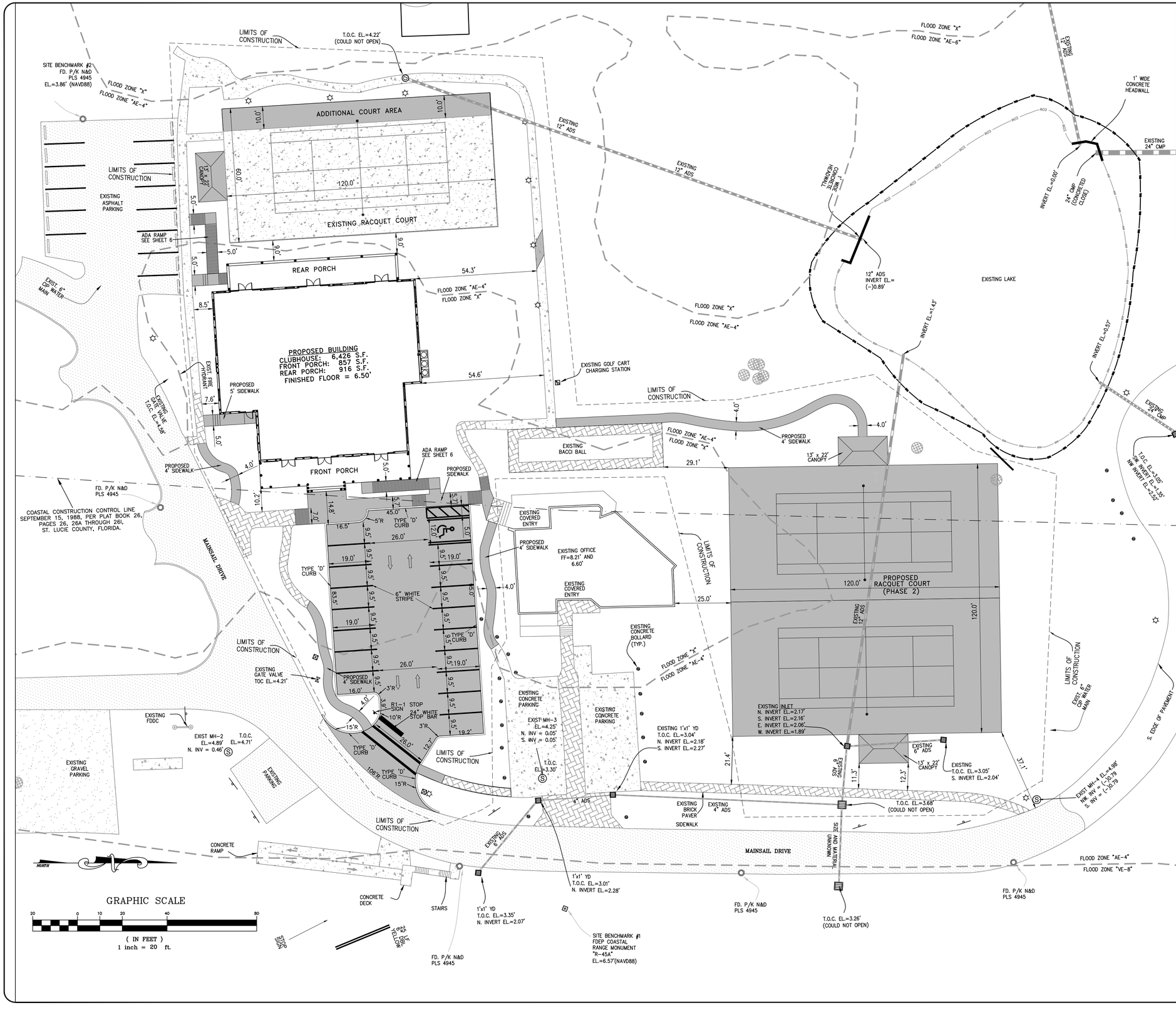

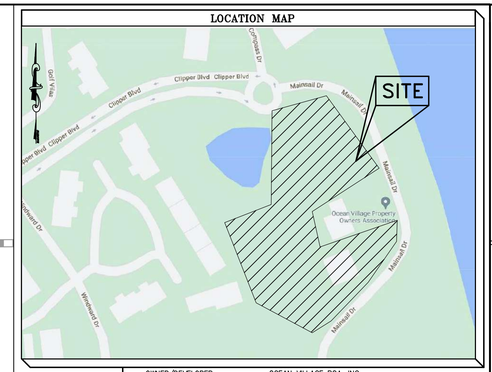

OWNER/DEVELOPER	OCEAN VILLAGE POA, INC. 2400 SOUTH OCEAN DRIVE FT. PIERCE, FL 34949
ENGINEER	SCHULKE, BITTLE & STODDARD, L.L.C. JODAH B. BITTLE, P.E. 57396 1717 INDIAN RIVER BLVD. SUITE 201 VERO BEACH, FL. 32960 (772) 770-9622
SURVEYOR:	MERIDIAN LAND SURVEYORS 1717 INDIAN RIVER BLVD., SUITE 201 VERO BEACH, FL. 32960 PHONE (772) 794-1213
EXISTING USE	CLUBHOUSE WITH RACQUET COURTS
PROPOSED USE	CLUBHOUSE WITH RACQUET COURTS
PROJECT LOCATION	WEST SIDE OF MAINSAIL DRIVE AND SOUTH OF CLIPPER BOULEVARD
SITE ADDRESS	SURFSIDE DRIVE, FT. PIERCE, FL
PARCEL I.D. NUMBER	2507-321-0001-000-5
CURRENT LAND USE	HIR (HUTCHINSON ISLAND RESIDENTIAL)
CURRENT ZONING	R-4A (HUTCHINSON ISLAND MEDIUM DENSITY RESIDENTIAL)
PROPOSED ZONING	R-4A (HUTCHINSON ISLAND MEDIUM DENSITY RESIDENTIAL)
PHASING PLAN	PHASE 1: NEW CLUBHOUSE, ADDITION TO EXISTING TENNIS COURT, SIDEWALKS AND ADDITIONAL PARKING AREA PHASE 2: PROPOSED TWO ADDITIONAL TENNIS COURTS AND SIDEWALK CONNECTION FROM CLUBHOUSE TO TENNIS COURTS

DEVELOPMENT PARAMETERS :

	EXISTING R-4A ZONING	PROPOSED DEVELOPMENT
MIN. LOT AREA	5,000 SF PER UNIT	40.02 ACRES
MIN. OVERALL LOT WIDTH	75'	>75'
MIN. INTERIOR LOT DEPTH	70'	>70'
MIN. YARD SETBACKS:		
FRONT (WEST)	25'	N/A
SIDE (NORTH)	10'	N/A
SIDE (SOUTH)	10'	N/A
REAR (WEST)	20'	N/A
MAX. LOT COVERAGE BY BLDGS	40%	8.5%
MIN. OPEN SPACE	25%	41%
MAX. IMPERVIOUS AREA	75%	59%
MAXIMUM DENSITY	8 UNITS/ACRE	N/A
MAX. BLDG. HEIGHT	45'	20'

AREA CALCULATIONS:

SITE AREAS:	EXISTING		PROPOSED (BASED ON LIMITS OF CONSTRUCTION)	
DEVELOPABLE AREA:	1,743,271 SF	40.02 AC	1,743,271 SF 40.02 AC	
LIMITS OF CONSTRUCTION:	75,542 SF	1.73 AC	75,542 SF 1.73 AC	100.0%
IMPERVIOUS AREA:	26,455 SF	0.60 AC	44,583 SF 1.02 AC	59.0%
EXIST. BUILDING AREA:	2,370 SF	0.05 AC	0 SF 0.00 AC	0.0%
EXIST. PAVING, CONC.:	24,085 SF	0.55 AC	9,567 SF 0.22 AC	12.7%
PROP. BUILDING AREA::	0 SF	0.00 AC	6,426 SF 0.15 AC	8.5%
PROP. PAVING, CONC.:	0 SF	0.00 AC	28,590 SF 0.66 AC	37.8%
PERVIOUS AREA:	49,087 SF	1.13 AC	30,959 SF 0.71 AC	41.0%
GREEN SPACE:	49,087 SF	1.13 AC	30,959 SF 0.71 AC	41.0%

NATIVE VEGETATION/PRESERVATION:
NO NATIVE AREA. SITE IS GRASS WITH TREES AND SHRUBS

PARKING CALCULATIONS:
EXISTING: RECREATION/CLUBHOUSE: 1 SPACE PER 200 SF
EXISTING 2,370 SF CLUBHOUSE WITH ADJACENT PARKING SPACES
2,370 SF X 1 SPACES / 200 SF = 12 SPACES
14 EXISTING PARKING SPACES TO THE SOUTH OF CLUBHOUSE

PROPOSED: RECREATION/CLUBHOUSE: 2 SPACE PER 200 SF
PROPOSED 6,426 SF CLUBHOUSE WITH ADJACENT PARKING SPACES
6,426 SF X 1 SPACES / 200 SF = 32 SPACES

PROVIDED: 14 EXISTING PARKING SPACES
18 PROPOSED PARKING SPACES
32 TOTAL PARKING SPACES

CONSTRUCTION SCHEDULE:

PHASE	DATE OF COMMENCEMENT	DATE OF COMPLETION
1	11/21	11/22
2	1/24	1/25

MARK	REVISION	DATE

DRAWING 21-032 CONST
DESIGNED JBB | DRAWN JBB
CHECKED JBB | DATE 04/30/21
SCALE 1"=20'

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SITE PLAN

OCEAN VILLAGE CLUBHOUSE

ENGINEER CERTIFICATION

JODAH B. BITTLE LICENSE No 57396 STATE OF FLORIDA PROFESSIONAL ENGINEER

JODAH B. BITTLE
FL. REG. NO. 57396 Jodah Bittle
DATE: 5/26/2021

PROJECT NO. 21-032 | SHEET 05

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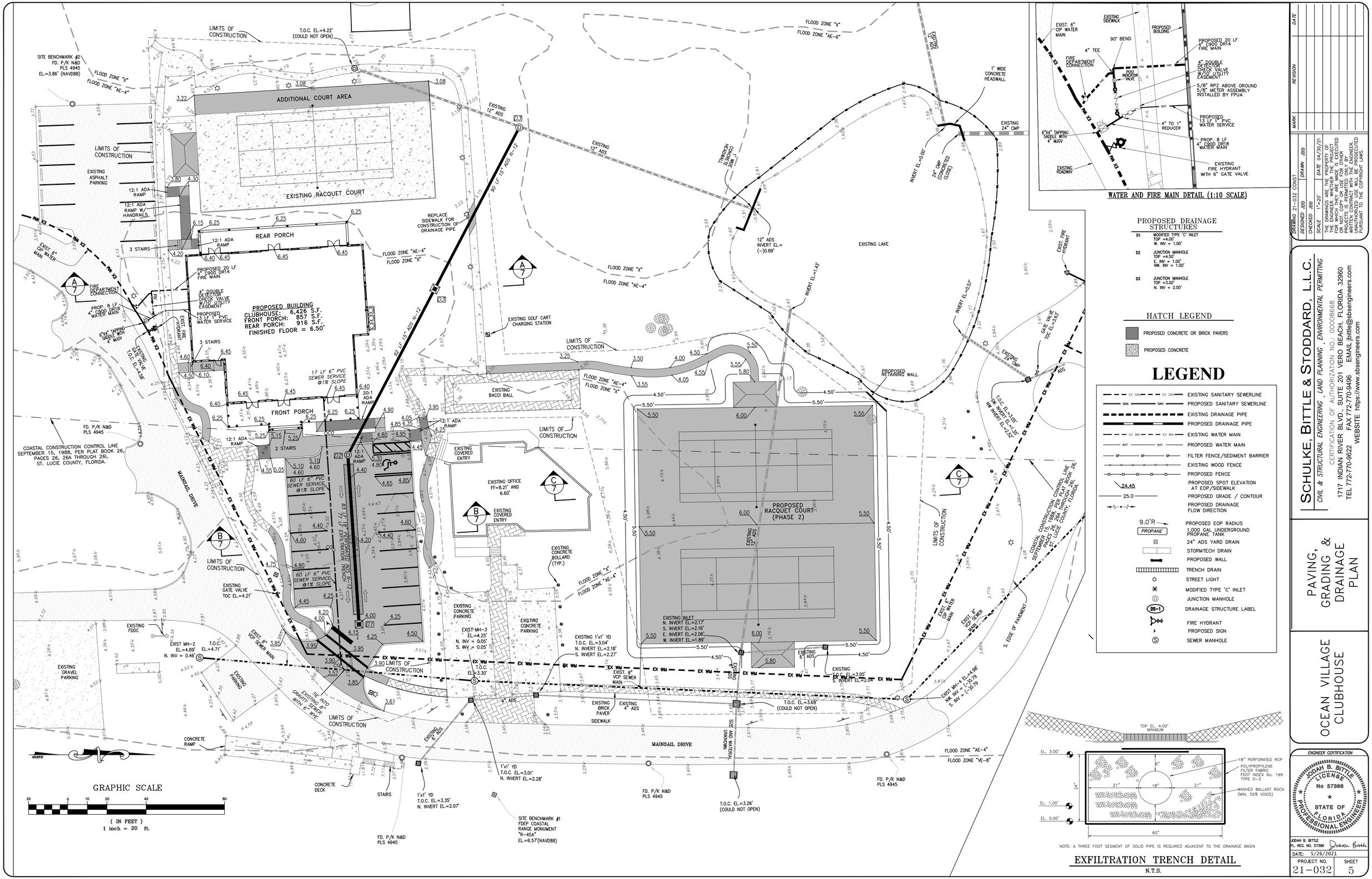

WATER AND FIRE MAIN DETAIL (1:10 SCALE)

PROPOSED DRAINAGE STRUCTURES

- **D1** MODIFIED TYPE 'C' INLET
  TOP =4.00'
  W. INV = 1.00'
- **D2** JUNCTION MANHOLE
  TOP =4.50'
  E. INV = 1.00'
  NW. INV = 1.00'
- **D3** JUNCTION MANHOLE
  TOP =3.00'
  N. INV = 2.00'

HATCH LEGEND

- PROPOSED CONCRETE OR BRICK PAVERS
- PROPOSED CONCRETE

LEGEND

- EXISTING SANITARY SEWERLINE
- PROPOSED SANITARY SEWERLINE
- EXISTING DRAINAGE PIPE
- PROPOSED DRAINAGE PIPE
- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- FILTER FENCE/SEDIMENT BARRIER
- EXISTING WOOD FENCE
- PROPOSED FENCE
- PROPOSED SPOT ELEVATION AT EOP/SIDEWALK
- PROPOSED GRADE / CONTOUR
- PROPOSED DRAINAGE FLOW DIRECTION
- PROPOSED EOP RADIUS
- 1,000 GAL UNDERGROUND PROPANE TANK
- 24" ADS YARD DRAIN
- STORMTECH DRAIN
- PROPOSED WALL
- TRENCH DRAIN
- STREET LIGHT
- MODIFIED TYPE 'C' INLET
- JUNCTION MANHOLE
- DRAINAGE STRUCTURE LABEL
- FIRE HYDRANT
- PROPOSED SIGN
- SEWER MANHOLE

NOTE: A THREE FOOT SEGMENT OF SOLID PIPE IS REQUIRED ADJACENT TO THE DRAINAGE BASIN

EXFILTRATION TRENCH DETAIL
N.T.S.

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CIVIL & STRUCTURAL ENGINEERING . LAND PLANNING . ENVIRONMENTAL PERMITTING
CERTIFICATION OF AUTHORIZATION NO.: 00008668
1717 INDIAN RIVER BLVD., SUITE 201 VERO BEACH, FLORIDA 32960
TEL 772-770-9622 FAX 772-770-9496 EMAIL jbittle@sbsengineers.com
WEBSITE https://www.sbsengineers.com

PAVING, GRADING & DRAINAGE PLAN

OCEAN VILLAGE CLUBHOUSE

ENGINEER CERTIFICATION
JODAH B. BITTLE
PL. REG. NO. 57396
DATE: 5/26/2021

PROJECT NO.	SHEET
21-032	5

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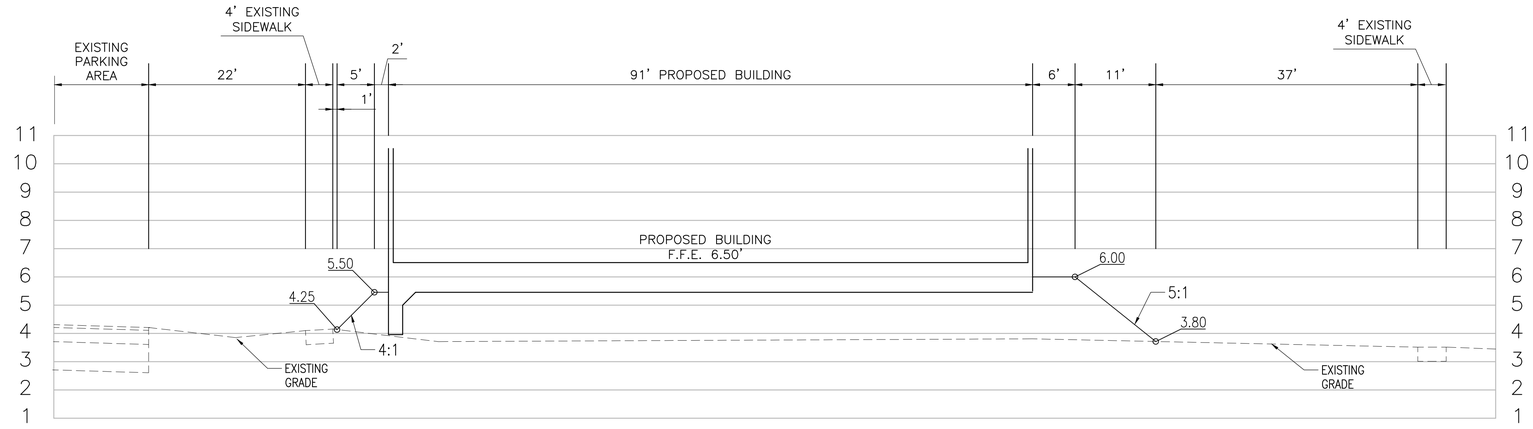

SECTION A

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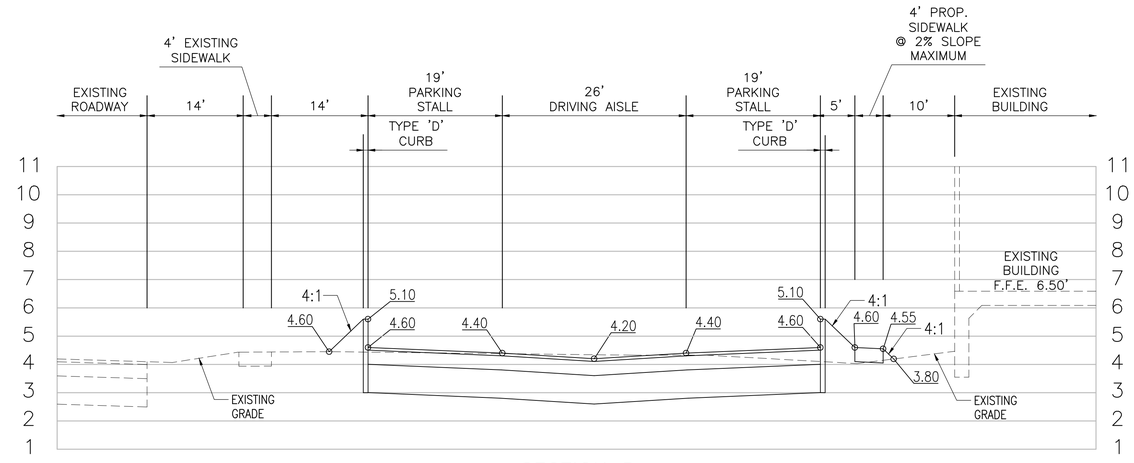

SECTION B

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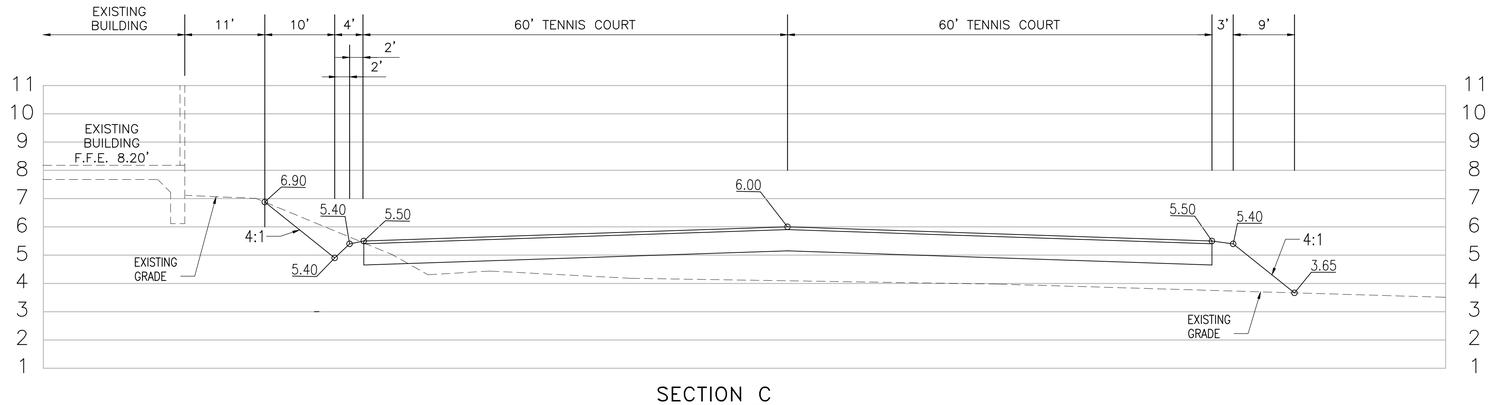

SECTION C

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CIVIL & STRUCTURAL ENGINEERING . LAND PLANNING . ENVIRONMENTAL PERMITTING
CERTIFICATION OF AUTHORIZATION NO.: 00008668
1717 INDIAN RIVER BLVD., SUITE 201 VERO BEACH, FLORIDA 32960
TEL 772-770-9622 FAX 772-770-9496 EMAIL jbittle@sbsengineers.com
WEBSITE https://www.sbsengineers.com

CROSS SECTION

OCEAN VILLAGE CLUBHOUSE

ENGINEER CERTIFICATION

JODAH B. BITTLE LICENSE No 57396 STATE OF FLORIDA PROFESSIONAL ENGINEER

JODAH B. BITTLE
FL REG. NO. 57396 Dawn Bittle
DATE: 5/26/2021

PROJECT NO.	SHEET
21-032	07

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SPECIFICATIONS - CLEARING/GRADING/PAVING/DRAINAGE/UTILITY CONSTRUCTION

GENERAL
IT IS INTENDED THAT THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST REVISIONS, BE USED WHERE APPLICABLE FOR VARIOUS WORK, AND THAT WHERE SUCH WORDING THEREIN REFERS TO THE STATE OF FLORIDA AND ITS DEPARTMENT OF TRANSPORTATION AND PERSONNEL, SUCH WORDING IS INTENDED TO BE REPLACED WITH THAT WORDING WHICH WOULD PROVIDE PROPER TERMINOLOGY, THEREBY MAKING SUCH "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" AS THE "STANDARD SPECIFICATIONS" FOR THIS PROJECT. IN ADDITION THE CONTRACTOR SHALL REFER TO THE "FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS", LATEST REVISIONS. IF WITHIN THAT PARTICULAR SECTION ANOTHER SECTION, ARTICLE OR PARAGRAPH IS REFERRED TO, IT SHALL BE A PART OF THE STANDARD SPECIFICATIONS, ALSO.
ALL WORK SHALL BE IN A WORKMANLIKE MANNER AND SHALL CONFORM WITH ALL APPLICABLE CITY, COUNTY, STATE, AND FEDERAL REGULATIONS AND/OR CODES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND LICENSES REQUIRED TO BEGIN WORK.
THE CONTRACTOR SHALL GIVE THE ENGINEER 24 HOURS NOTICE PRIOR TO REQUESTING REQUIRED INSPECTIONS AND SHALL SUPPLY ALL EQUIPMENT NECESSARY TO PROPERLY TEST AND INSPECT THE COMPLETED WORK.
THE CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM THE DATE OF PROJECT ACCEPTANCE, DURING WHICH ALL FAULTY CONSTRUCTION AND/OR MATERIALS SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

CLEARING/GRUBBING
THE CONTRACTOR SHALL COMPLETELY REMOVE AND DISPOSE OF ALL BUILDING, TIMBER, BRUSH, STUMPS, ROOTS, RUBBISH, DEBRIS, INCLUDING SEPTIC TANK, BUILDING FOUNDATIONS, PIPES, ETC., WITHIN THE LIMITS OF THE ROADWAY CONSTRUCTION. ALL AREAS WHERE STRUCTURES WILL BE CONSTRUCTED INCLUDING PIPE CULVERTS, AND AS OTHERWISE DEPICTED IN THE PLANS, ALL IN ACCORDANCE WITH SECTION 110 OF THE STANDARD SPECIFICATIONS.

GRADING
THE CONTRACTOR SHALL PERFORM ALL GRADING NECESSARY TO ACHIEVE THE PROPOSED PLAN GRADES, FINAL DRESSING SHALL HAVE A TOLERANCE OF 0.1 FT.+- FROM THE PLAN CROSS SECTIONS. GRADING SHALL INCLUDE ALL SHAPING, ROUGH GRADING, AND FINAL DRESSING REQUIRED FOR THE PROPOSED ROADWAY AND ROAD EMBANKMENTS WITHIN THE LIMITS DEPICTED IN THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE FINISHED GRADES UNTIL CONTRACT CLOSE-OUT, AND MUST RE-GRADE AS REQUIRED WHEN EROSION OR OTHER DISTURBANCES OCCUR. SEED/MULCH AND/OR SODDING SHALL BE INCORPORATED TO ASSIST IN THIS REGARD. HOWEVER, ANY LOSS OF SOD OR SEED/MULCH DURING THESE OCCURRENCES SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.

SOD:
SOD SHALL BE ST. AUGUSTINE OR ARGENTINE BAHIA - AS NOTED ON THE LANDSCAPE PLANS OR CONTRACT DOCUMENTS. SOD SHALL BE WELL MATTED WITH ROOTS AND SHALL BE SUFFICIENTLY THICK TO SECURE A DENSE STAND OF LIVE GRASS. THE SOD SHALL BE LIVE, FRESH AND UNINJURED AT THE TIME OF PLANTING AND SHALL BE REASONABLY FREE OF WEEDS AND OTHER GRASSES. THE RECEIVING GROUND SURFACE SHALL BE GRADED TO PROPER ELEVATIONS, FREE OF LARGE VOIDS, ROOTS, WEEDS OR PATCHES OF EXISTING GRASS. UPON LAYING, THE ENTIRE AREA SHALL BE ROLLED THOROUGHLY. ALL SODDED AREAS ARE TO BE WATERED TO KEEP SOD ALIVE UNTIL THE CONTRACTOR IS CLOSED OUT, DEAD SOD SHALL BE REPLACED BY CONTRACTOR.

EMBANKMENT CONSTRUCTION
ROADWAY EMBANKMENT CONSTRUCTION SHALL CONSIST OF ALL THE EMBANKMENT CONSTRUCTION REQUIRED FOR THE PROPOSED ROADWAY AND/OR PARKING LOT, BUILDING PADS, DITCHES AND SWALES IN ACCORDANCE WITH SECTION 120 OF THE STANDARD SPECIFICATIONS. EMBANKMENTS SHALL BE CONSTRUCTED FROM MATERIAL CONTAINING NO MUCK, STUMPS, ROOTS,BRUSH,VEGETABLE MATTER, RUBBISH, OR OTHER DELETERIOUS MATERIAL THAT WILL NOT COMPACT TO A SUITABLE ENDURING ROAD BED. EXISTING EARTH SURFACES SHALL BE COMPACTED/PROOF ROLLED PRIOR TO PLACEMENT OF ANY EMBANKMENT MATERIAL.
MATERIAL: UNLESS OTHERWISE SPECIFIED, ALL FILL MATERIAL SHALL BE TYPE B (AASHTO T-99).
COMPACTION: 98% MODIFIED PROCTOR (ASTM D-1557) OR 95% STANDARD (AASHTO T-180).
MIN. 100% MAX DENSITY ADJACENT TO STRUCTURES WITHIN PAVED AREAS.
COMPENSATION: COMPENSATION FOR EMBANKMENT CONSTRUCTION SHALL BE MADE FULLY BY THE BID ITEMS FOR BORROW EXCAVATION (PER C.Y.), GRADING (PER L.F. OF ROADWAY OR PER ACRE OF SITE), AND REGULAR EXCAVATION (PER C.Y.) WHEN APPLICABLE.

EMBANKMENT AND BACKFILL MATERIAL:
TYPE 1: WELL GRADED CRUSHED ROCK STONE OR CRUSHED GRAVEL (ASTM C33-71A, GRADATION 67) - 3/4" TO NO. 4 SIEVE.
TYPE 2: SANDY MATERIAL AND MAY BE UNCLASSIFIED MATERIAL OBTAINED FROM CONTRACTOR'S EXCAVATIONS AND APPROVED BY THE ENGINEER. THIS MATERIAL SHALL BE FREE FROM WOOD, ROOTS, HUMUS, PEAT, MUCK, AND OTHER ORGANIC MATERIALS AND SHALL CONTAIN NO STONES, MASONRY, RUBBLE OR THE LIKE GREATER THAN 1/2 INCHES IN DIAMETER.
TYPE 3: SELECT GRANULAR SAND MATERIAL, FREE OF ORGANICS WITH LESS THAN 3% FINES PASSING THE NO. 200 SIEVE.

STAKING
CONSTRUCTION STAKING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

STABILIZING
STABILIZED SUBGRADE SHALL BE CONSTRUCTED TO THE FLORIDA BEARING VALUE OR L.B.R. AS PER PLAN FOR THE DEPTH AND LIMITS SHOWN ON THE PLAN, AND IN ACCORDANCE WITH SECTION 160 OF THE STANDARD SPECIFICATIONS, ALL STABILIZED AREAS SHALL BE COMPACTED TO AT LEAST 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180. ALL MATERIAL SHALL BE MIXED TO A HOMOGENEOUS MATERIAL.

BASE COURSE
THE BASE SHALL BE CONSTRUCTED OF EITHER LIMEROCK MATERIAL IN ACCORDANCE WITH SECTION 911 OR CEMENTED COQUINA SHELL BASE IN ACCORDANCE WITH SECTION 915 OF THE STANDARD SPECIFICATIONS.
LIMEROCK BASE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 200 AND CEMENTED COQUINA SHELL BASE SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 250 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE CORE PENETRATION ROCK PIT CERTIFICATION. ALL MATERIAL SHALL BE COMPACTED TO AT LEAST 98% OF THE MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180 AND TO AN L.B.R. VALUE WHEN SPECIFIED ON PLANS. BASE SHALL BE APPROVED PRIOR TO PRIME COAT.

PRIME AND TACK COAT
PRIME AND TACK COATS FOR THE BASE COURSE SHALL BE IN ACCORDANCE WITH SECTION 300 OF THE STANDARD SPECIFICATIONS.

ASPHALT CONCRETE SURFACE COURSE (A.C.S.C.)
TYPE SP 9.5 & TYPE SP 12.5 A.C.S.C. SHALL BE CONSTRUCTED FOR THE DEPTH AND LIMITS SHOWN ON THE PLAN, IN ACCORDANCE WITH SECTIONS 320, 330, AND 334 OF THE STANDARD SPECIFICATIONS.

CEMENT CONCRETE PAVEMENT:
CONSTRUCT PORTLAND CEMENT CONCRETE (TYPE II, CLASS I) PAVEMENT IN ONE COURSE ON A PREPARED STABILIZED SUBGRADE IN ACCORDANCE WITH SECTIONS 346 AND 350, PROVIDE STEEL REINFORCEMENT WHEN SPECIFIED IN THE PLANS.

CURB
ALL CURB CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 520 OF THE STANDARD SPECIFICATIONS, AND IN ACCORDANCE WITH F.D.O.T. INDEX NO. 300. PROVIDE CONTRACTION JOINTS AT 10-FOOT O.C. MAXIMUM. TRANSITION ENDS OF CURB FROM FULL TO ZERO HEIGHTS IN 3-FEET. CURB CUT RAMPS SHALL BE IN ACCORDANCE WITH F.D.O.T. INDEX NO. 304.

TESTING
THE CONTRACTOR SHALL RETAIN THE SERVICES OF AN APPROVED INDEPENDENT TESTING LABORATORY TO CONDUCT ALL REQUIRED TESTS ON EMBANKMENT,SUBGRADE, BASE, PIPE BACKFILL AND SURFACE COURSE MATERIALS. TEST RESULTS MUST BE SUBMITTED PRIOR TO ANY REQUEST FOR PAYMENT ON THE ABOVE ITEMS.

THE SCHEDULE FOR TESTING THE ROAD/PAVEMENT AREAS CONSTRUCTION SHALL BE AS FOLLOWS:
A. EMBANKMENT: DENSITY TESTS SHALL BE TAKEN AT A MAXIMUM OF 5,000 SF. INTERVALS FOR EACH 12" LIFTS CONSTRUCTED, AND AT ALL EXISTING PROCRIBULED EARTH SURFACES.
B. SUBGRADE: (1) F.B.V./L.B.R. (PER PLAN) TEST SHALL BE TAKEN AT INTERVALS OF NOT MORE THAN 5000 SF / 10,000 SF OR CLOSER AS MIGHT BE NECESSARY IN THE EVENT OF VARIATIONS IN SUBSOIL CONDITIONS. (MIN. OF 3 / 1 PER JOB)
(2) DENSITY TESTS SHALL BE TAKEN AT INTERVALS OF NOT MORE THAN 5000 SF OR CLOSER AS MIGHT BE NECESSARY.
C. BASE: (1) F.B.V./L.B.R. (PER PLAN) TEST SHALL BE TAKEN AT INTERVALS OF NOT MORE THAN 5000 SF / 10,000 SF OR CLOSER (MIN. OF 3 / 1 PER JOB)
(2) DENSITY TESTS SHALL BE TAKEN AT INTERVALS OF NOT MORE THAN 5000 SF OR CLOSER AS MIGHT BE NECESSARY.
D. PIPE BACKFILL: DENSITY TESTS SHALL BE TAKEN AT A MAXIMUM OF 50 FT. INTERVALS, 1' ABOVE PIPE, 1' BELOW GRADE, MIN., AND AT THE DEPTHS GREATER THAN 5 FT. AN ADDITIONAL TEST SHALL BE TAKEN AT MID DEPTH OF BACKFILL
E. STRUCTURES: A MINIMUM OF 1 DENSITY TEST SHALL BE PERFORMED IN THE STABILIZED SUBGRADE, AND WITHIN THE BACKFILL FOR EACH 12" LIFT, ADJACENT TO EACH STRUCTURE INSTALLED.
F. BUILDING PAD: AS SPECIFIED IN ARCHITECTURAL PLANS.
G. CURB PADS - DENSITY TEST SHALL BE TAKEN AT A MAXIMUM OF 500 FT. INTERVALS.

ALL TESTS SHALL BE PAID FOR BY THE CONTRACTOR.

CLEAN-UP
THE CONTRACTOR MUST PROVIDE CLEAN-UP OF EXCESS CONSTRUCTION MATERIAL UPON COMPLETION OF THE PROJECT. THE SITE MUST BE LEFT IN A NEAT, CLEAN, GRADED CONDITION.

DRAINAGE STRUCTURE SPECIFICATIONS
STORM INLETS AND MANHOLES SHALL BE CONSTRUCTED IN GENERAL ACCORDANCE WITH SECTION 425 OF THE STANDARD SPECIFICATIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI. ALL REINFORCING STEEL TO BE ASTM A 615-72 GRADE 40, FY = 40,000 PSI, AND SHALL BE HANDLED AND PLACED IN ACCORDANCE WITH ACI 318-71. PRECAST CONCRETE MANHOLES AND STORM INLETS MAY BE USED UPON THE ENGINEER'S APPROVAL OF THE MANUFACTURER'S SHOP DRAWINGS.

PRECAST INLETS/MANHOLES
ALL STORM INLETS SHALL BE PRECAST REINFORCED CONCRETE IN ACCORDANCE WITH APPLICABLE REFERENCES TO FDOT DRAWINGS IN THE "FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS", LATEST EDITION. TYPE II PORTLAND CEMENT SHALL BE USED IN THE CONCRETE MIX. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28-DAYS OF 4000 PSI.

CULVERT PIPES
INSTALL PIPE CULVERTS AND STORM SEWERS IN ACCORDANCE WITH SECTION 430 AND RELATED SECTIONS OF THE STANDARD SPECIFICATIONS AT THE LOCATIONS DEPICTED IN THE PLANS. FURNISH AND INSTALL SANDTIGHT (WATERTIGHT TO 2 PSI) PIPE JOINTS AND PIPE/STRUCTURE JOINTS. ALL JOINTS SHALL BE GASKETED. REINFORCED CONCRETE PIPES (R.C.P.) SHALL BE IN ACCORDANCE WITH SECTION 941 OF THE STANDARD SPECIFICATIONS CORRUGATED ALUMINUM PIPE SHALL BE IN ACCORDANCE WITH SECTION 945 OF THE STANDARD SPECIFICATIONS. ADS (CORRUGATED POLYETHYLENE) SHALL BE IN ACCORDANCE WITH SECTION 948-2.3 OF THE STANDARD SPECIFICATIONS.

BACKFILLING OVER PIPE CULVERT AND STORM SEWERS SHALL BE COMPLETED IN MAXIMUM 4"-LIFTS TO THE SPRINGLINE MAXIMUM 6" LIFTS, TO A POINT 12" ABOVE THE PIPE, AND IN 12" LIFTS BEYOND, COMPACTED TO A MINIMUM OF 98% OF MAXIMUM DRY DENSITY. TYPE 2 MATERIAL SHALL BE USED FOR ALL BACKFILL, UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.

FURNISH AND INSTALL FILTER FABRIC JACKET AROUND ALL PIPE JOINTS AND THE JOINT BETWEEN THE PIPE AND THE STRUCTURE IN ACCORDANCE WITH DESIGN STANDARDS INDEX NUMBERS 201 & 280. USE FABRIC MEETING THE PHYSICAL REQUIREMENTS OF TYPE 3 SPECIFIED IN THE DESIGN STANDARDS, INDEX 199. THE FABRIC SHALL EXTEND A MINIMUM OF 12 INCHES (300 MM) BEYOND EACH SIDE OF THE JOINT OR BOTH EDGES OF THE COUPLING BAND. IF A COUPLING BAND IS USED. THE FABRIC SHALL HAVE A MINIMUM WIDTH OF 24 INCHES (600 MM) AND A LENGTH SUFFICIENT TO PROVIDE A MINIMUM OVERLAP OF 24 INCHES (600 MM). SECURE THE FILTER FABRIC JACKET AGAINST THE OUTSIDE OF THE PIPE BY METAL OR PLASTIC STRAPPING OR BY OTHER METHODS APPROVED THE THE ENGINEER.

CONCRETE
UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28-DAYS OF 3000 PSI. ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE AMERICAN CONCRETE INSTITUTE (ACI) BUILDING CODE AND THE APPLICABLE BUILDING CODES HAVING JURISDICTION IN THE AREA.

RECORD DRAWINGS
THE CONTRACTOR SHALL KEEP AND MAINTAIN RECORD DRAWINGS ON THE PROJECT SITE AT ALL TIMES WHICH SHALL BE ANNOTATED BY THE CONTRACTOR DEPICTING ANY CHANGES MADE IN THE WORK (2) WHICH DIFFER FROM THE CONTRACT DRAWINGS. RECORD DRAWINGS SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, HORIZONTAL LOCATION AND VERTICAL ELEVATION OF INVERT AND TOP OF CULVERTS, SEWER MANHOLES, DRAINAGE STRUCTURES, INLETS, UTILITY MAINS AND AS-BUILTS OF ALL LAKE BANKS, LOT/BLDG., PADS, SWALES, BERMS, CURBS, PAVEMENT, SIDEWALKS- DEPICTING HORIZONTAL LOCATION AND ELEVATIONS. CONTRACTOR SHALL SUBMIT COMPLETE AND FINAL RECORD DRAWINGS TO ENGINEER UPON COMPLETION OF PROJECT AND PRIOR TO FINAL INSPECTION AND FINAL PAYMENT.

THE CONTRACTOR SHALL BE REQUIRED TO HAVE A SURVEYOR PROVIDE CERTIFIED RECORD DRAWINGS/AS-BUILTS. THESE DRAWINGS SHALL BE PROVIDED IN AN ACAD ELECTRONIC FILE AS WELL AS ON SIGNED/SEALED HARD COPIES. THE AS-BUILTS MUST MEET I.R.C. UTILITY DEPT. CRITERIA FOR WATER MAIN AND SEWER AS-BUILTS, INCLUDING TIES TO STATE PLANE COORDINATES.

INSPECTION
MINIMUM CONSTRUCTION INSPECTION CHECKPOINTS
THE ENGINEER SHALL BE NOTIFIED 24 HOURS IN ADVANCE:
A. PRIOR TO ANY MAJOR DEVIATION FROM THE APPROVED PLANS.
B. PRIOR TO BACKFILLING ANY PIPE TRENCHES.
C. UPON COMPLETION OF SUBGRADE AND COMPACTION.
D. PRIOR TO POURING CURBS, SIDEWALKS OR OTHER FLATWORK.
E. UPON BEGINNING OF SPREADING OF ROCK BASE MATERIAL.
F. UPON COMPLETION OF GRADING AND COMPACTION OF BASE MATERIAL AND PRIOR TO PRIMING.
G. IMMEDIATELY PRIOR TO AND UPON APPLICATION OF A.C.S.C.
H. UPON COMPLETION OF CONSTRUCTION.

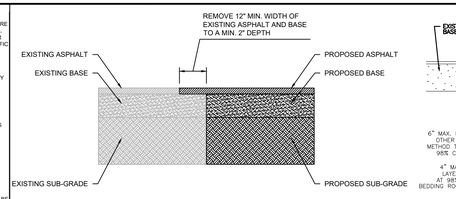
ACCEPTABLE TEST RESULTS MUST BE PROVIDED TO THE ENGINEER PRIOR TO COMMENCING SUCCESSIVE STEPS OF CONSTRUCTION, INCLUDING:
- PIPE BACKFILL AND EMBANKMENT DENSITIES PRIOR TO SUBGRADE PREPARATION.
- SUBGRADE TESTING PRIOR TO BASE PREPARATION, CONCRETE CURB OR SIDEWALK CONSTRUCTION.
- BASE TESTING PRIOR TO APPLICATION OF SURFACE COURSE.

WHERE REFERENCES ARE MADE TO ROADWAY CONSTRUCTION, IT IS INTENDED TO INDICATE CONSTRUCTION FOR ROADWAYS AND/OR PARKING LOTS/DRIVEWAYS.

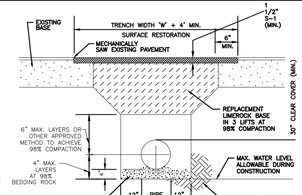
TRAFFIC/PAVEMENT MARKING NOTES:
1. ALL PARKING SPACE MARKINGS AND ROADWAY MARKINGS ON PRIVATE DRIVEWAYS/STREETS WITH THE EXCEPTION TO THE HANDICAPPED PARKING SPACES SHALL BE MARKED IN REFLECTORIZED TRAFFIC PAINT AND BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2019-20.
2. ALL HANDICAPPED PARKING SPACES SHALL BE PROPERLY SIGNED AND MARKED IN ACCORDANCE WITH THE F.D.O.T.'S STANDARD INDEX NO. 711-001.
3. TRAFFIC FLOW ARROWS THRU PARKING AREAS ARE FOR DIRECTION AND ARE TO BE PAINTED.
4. STOP BARS SHALL BE 24" WIDE.
5. FDOT STANDARD PLANS FOR ROAD CONSTRUCTION, MUTCD, AND INDIAN RIVER COUNTY DRAWINGS FOR PAVEMENT MARKINGS, SIGNING & GEOMETRICS; ALL LATEST EDITIONS.
6. ALL PAVEMENT MARKINGS FOR THE PROPOSED PUBLIC ROADWAYS AND ALL MARKINGS AT INTERSECTIONS OF PRIVATE ROADS/DRIVEWAYS WITH PUBLIC ROADS SHALL BE EXTRUDED TYPE ALKYD BASE THERMOPLASTIC AND SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
7. SPECIAL MARKINGS (CROSS WALK, STOP BARS, ROADWAY CONTINUOUS STRIPING, THRU ARROWS, PAVEMENT MARKINGS FOR TRAFFIC SEPARATORS, ETC. SHALL BE IN ACCORDANCE WITH THE F.D.O.T. INDEX NO. 711-001.
8. ALL FDOT DESIGN STANDARDS INDICES CORRESPONDING TO THE 2019-20 EDITION.

SIGNS:
1. ALL SIGNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND INDIAN RIVER COUNTY DRAWINGS FOR PAVEMENT MARKINGS, SIGNING & GEOMETRICS, ALL LATEST EDITIONS.
2. ALL SIGNS SHALL BE TYPE 'C' SINGLE COLUMN GROUND SIGNS IN ACCORDANCE WITH F.D.O.T. INDEX NO. 700-010. WIND LOAD SHALL BE ZONE 3 (80 M.P.H.).
3. ALL SIGNS PLACEMENT SHALL BE IN ACCORDANCE WITH F.D.O.T. INDEX NO. 700-101 AND INDIAN RIVER COUNTY DRAWINGS FOR PAVEMENT MARKINGS, SIGNING & GEOMETRICS.

ADDITIONAL SPECIFICATIONS FOR WORK WITHIN A PUBLIC R.O.W.:
1. THE LOCAL MEDIA SHALL BE CONTACTED A WEEK PRIOR TO ANY LANE CLOSURES ON THE STATE ROAD SYSTEM AS IT WILL OCCUR DURING PEAK HOURS OR OVER THE SPAN OF MORE THAN ONE DAY. CONTACT BARBARA KELLEHER, FDOT PUBLIC INFORMATION OFFICE AT 954-777-4090 FOR GUIDANCE ON WHO TO CONTACT. PROVIDE A COPY OF THE PRESS RELEASE.
FLORIDA DEPARTMENT OF TRANSPORTATION
PUBLIC INFORMATION OFFICE
3400 WEST COMMERCIAL BOULEVARD
FORT LAUDERDALE, FLORIDA 33309
2. ALL MATERIALS AND CONSTRUCTION WITHIN FDOT RIGHT-OF-WAY SHALL CONFORM TO THE FDOTROADWAY AND TRAFFIC DESIGN STANDARDS (LATEST EDITION STANDARD SPECIFICATIONS (LATEST EDITION) AND THE SUPPLEMENTS THERETO.
3. THE APPLICANT'S ENGINEER RESPONSIBLE FOR CONSTRUCTION INSPECTION SHALL INSURE THAT THE MAINTENANCE OF TRAFFIC PLAN (MOT) FOR THE PROJECT IS IN ACCORDANCE WITH THE APPLICABLE FDOT INDEX NUMBERS (600 SERIES) AND THESE DOCUMENTS: THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (U.S DEPARTMENT OF TRANSPORTATION, FHWA). THE CONTRACTOR SHALL PROVIDE NECESSARY M.O.T. AS SPECIFIED IN THE PLANS AND PERMITS, AND AS DIRECTED IN THE FIELD BY THE ENGINEER OR PUBLIC WORKS/FDOT REPRESENTATIVE.
4. AT THE END OF EACH WORK PERIOD, ANY DROP-OFF IN THE AREA ADJACENT TO THE TRAVEL WAY OF THE STATE ROAD SHALL BE BACKFILLED IN ACCORDANCE WITH STANDARD INDEX 600 OR SHALL BE OTHERWISE PROTECTED WITH TEMPORARY BARRIER WALL AT THE CONTRACTORS EXPENSE.
5. IF THE PERMITTED WORK IS ON A ROADWAY THAT HAS BEEN SELECTED AS A HURRICANE OR DISASTER EVACUATION ROUTE, THE APPLICANT, AT THE PRE-CONSTRUCTION CONFERENCE IS REQUIRED TO PRESENT, AS PART OF THE WORK PLAN, AN EMERGENCY FUNCTIONAL RESTORATION PLAN TO ADDRESS EVENTUALITIES SUCH AS HURRICANES.
6. THE CONTRACTOR MUST CALL THE APPROPRIATE COUNTY TRAFFIC ENGINEERING DIVISION, HAVING JURISDICTION OVER THE PROJECT AT LEAST 48 HOURS, BEFORE ANY EXCAVATION WITHIN THE FDOT RIGHT-OF-WAY TO DETERMINE THE LOCATION OF THE EXISTING TRAFFIC SIGNAL INTERCONNECT CABLE.
7. THE LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. RELOCATION OF UTILITIES SHALL BE COORDINATED WITH UTILITY COMPANIES AFTER IDENTIFICATION BY CONTRACTOR. CONTRACTOR WILL NOTIFY ENGINEER IN ADVANCE BEFORE ANY RELOCATION.
8. BEFORE PERMIT APPROVAL AND CONSTRUCTION OF THIS PROJECT, THE APPLICANT MUST CONTACT THE FLORIDA DEPARTMENT OF TRANSPORTATION LOCAL MAINTENANCE OFFICE TO SCHEDULE A PRE-CONSTRUCTION MEETING, THE TELEPHONE NUMBER IS 954-776-4300 OR 1-800-300-8236.
9. THE APPLICANT AT THE EARLIEST CONVENIENT TIME SHALL NOTIFY IN WRITING ALL RIGHT-OF-WAY USERS AFFECTED BY THE CONSTRUCTION OF THIS PROJECT.
10. ALL CURB CUT RAMPS MUST FACE IN THE DIRECTION OF PEDESTRIAN TRAVEL.
11. ALL MOT LANE CLOSURE SIGNS SHALL BE COVERED WHEN LANES ARE NOT CLOSED. NO LANES ARE TO BE CLOSED EXCEPT AT TIMES PRESCRIBED BY THE DEPARTMENT.
12. LIMEROCK BASE SHALL BE A MINIMUM OF 12" AND COMPACTED IN 6" LIFTS TO 98% MAXIMUM DENSITY ACCORDING TO AASHTO-180. CONSTRUCTION TO CONFORM TO SECTION 200, BASE TO BE PRIMED AFTER COMPACTION.
13. STABILIZED SUBGRADE SHALL BE A MINIMUM OF 12" THICK AND COMPACTED TO 98% MAXIMUM DENSITY ACCORDING TO AASHTO-180. MATERIAL TO HAVE A MINIMUM L.B.R. OF 40 AND CONFORM TO SECTION 160.
14. REMOVE ALL MUCK, OVERBURDEN, AND ROOT MATERIAL TO THUE RIGHT OF WAY LINE, AND BACKFILL TO THE REQUIRED SUBGRADE WITH CLEAN, GRANULAR MATERIAL IN MAXIMUM 6" LIFTS COMPACTED TO 100% OF MAXIMUM DENSITY IN ACCORDANCE WITH AASHTO T99-C SPECIFICATIONS, AND EACH LIFT TESTED BEFORE PLACING NEXT LIFT.
15. FLAGGERS MUST BE PRESENT DURING THE INGRESS AND EGRESS OF CONSTRUCTION VEHICLES TO AND FROM THE PROJECT SITE. WARNING SIGNS MUST BE ERECTED ADVISING MOTORIST OF TRUCKS ENTERING THE HIGHWAY.

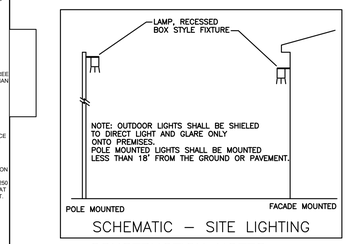


SAW-CUT
N.T.S



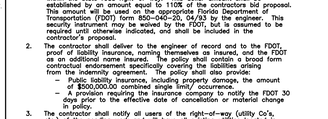
NOTES
1. WHERE SOIL CONDITIONS CANNOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE APPROVED METHOD TO CONTROL SOILS THAT WILL NOT COMPACT TO A SUITABLE ENDURING ROAD BED.
2. SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD.
3. NEW SURFACING MATERIALS SHALL BE CONSISTENT WITH EXISTING AND SHALL HAVE LAPPED AND FEATHERED JOINTS. (1-1/2" MIN. THK.)
4. COMPACTION PERCENTAGES SHOWN REFER TO AA.S.H.T.O. T-180.
5. ALL ROADWAY RESTORATION SHALL COMPLY WITH INDIAN RIVER COUNTY PUBLIC WORKS / F.D.O.T. STANDARDS.
6. TRENCH WIDTH "W" = PIPE O.D. PLUS 2'-0".

TRENCH DETAILS
(PAVED AREAS)



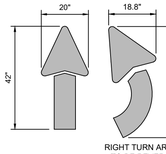
SCHEMATIC – SITE LIGHTING

CONSTRUCTION NOTES
Conditions of Construction
Within F.D.O.T. Right-of-Way
1. The contractor shall provide a security instrument in the form of a performance bond in the estimated dollar amount of the improvements/work within the state road right-of-way. This dollar amount shall be established by an amount equal to 110% of the contractors bid proposal. This amount will be used on the appropriate Florida Department of Transportation (FDOT) form 850-040-20, 04/93 by the engineer. This security instrument may be waived by the FDOT, but is assumed to be required until otherwise indicated, and shall be included in the contractor's proposal.
2. The contractor shall deliver to the engineer of record and to the FDOT, proof of liability insurance, naming themselves as insured, and the FDOT as an additional name insured. The policy shall contain a brood form contractual endorsement specifically covering the liabilities arising from the indemnity agreement. The policy shall also provide:
– Public liability insurance, including property damage in the amount of $500,000.00 combined single limit/ occurrence.
– A provision requiring the insurance company to notify the FDOT 30 days prior to the effective date of cancellation or material change in policy.
3. The contractor shall notify all users of the right-of-way (utility Co's, etc.) of the pending work and will have all existing utilities located in the field,and all conflicts resolved. Documentation of this notification shall be submitted to the engineer of record.
4. The engineer of record and the FDOT must be notified 72 hours prior to the commencement of construction. A pre-construction meeting at the job site shall be arranged by the contractor, at which representatives of the engineer of record and FDOT must attend.
5. All conditions of the FDOT permit must be strictly adhered to.
6. All construction shall be performed in accordance with the "FDOT Standard Specifications for Road and Bridge Construction," latest edition and shall reference the "FDOT Standard Specifications for Road and Bridge Construction," latest revisions.
7. Construction specifications listed on Sheet C–3 shall be adhered to.



SIDEWALK NOTES:
1. ALL MATERIALS AND CONSTRUCTION PROCEDURES SHALL BE IN ACCORDANCE WITH THE "SUGGESTED SPECIFICATIONS FOR CONCRETE AREAS" PREPARED BY THE PORTLAND CEMENT ASSOCIATION AND IN ACCORDANCE WITH FDOT INDEX NO. 310.
2. SAWED JOINTS SHALL BE CONSTRUCTED AT A MAXIMUM OF 5–FEET O.C., AND SHALL BE IN ACCORDANCE W/ FDOT INDEX NO. 310.
3. AT LEAST THREE (3) COMPRESSIVE STRENGTH CYLINDER SAMPLES SHALL BE TAKEN FOR EACH 10,000 SQUARE FEET OF PAVEMENT OR FIVE (5) PER JOB, WHICHEVER IS GREATER. SLUMP SHALL BE 2 TO 4 INCHES (AASHTO T–119). COMPRESSIVE STRENGTH SHALL BE REPORTED AT 7, 14, AND 28 DAYS.
4. CONSTRUCT UPON FIRM, STABILIZED GROUND, COMPACTED TO 95% MAXIMUM DRY DENSITY.
5. SURFACE WITH LIGHT BROOM FINISH.
6. SOD ALL DISTURBED AREAS.
7. RECESS SIDEWALK AS REQUIRED IF BRICK PAVERS CALLED FOR IN PLANS
8. SIDEWALK/CURB MAY BE CONSTRUCTED AS ONE INTEGRAL POUR. PROVIDE MIN. 8"x8" THK'N EDGE
9. PROVIDE REINFORCEMENT AS SPECIFIED IN PLAN SHEETS.

DETAIL AND
SIDEWALK / BIKEPATH SPECIFICATIONS



RIGHT

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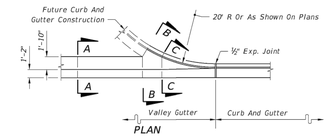
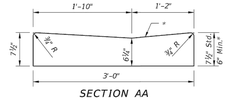
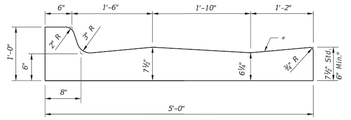


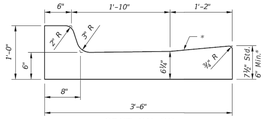
PLAN



SECTION AA



SECTION BB



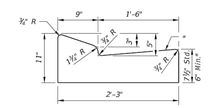
SECTION CC

VALLEY GUTTER

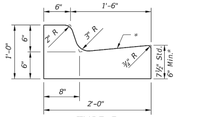
* When used on high side of roadways, the cross slope of the gutter shall match the cross slope of the adjacent pavement. The thickness of the lip shall be 6", unless otherwise shown on plans.

◪ Rotate entire section so that gutter cross slope matches slope of adjacent circulating roadway pavement.

For use adjacent to concrete or flexible pavement. For details depicting usage adjacent to flexible pavement, see Sheet 2. Expansion joint, preformed joint filler and joint seal are required between curb & gutter and concrete pavement only, see Sheet 2.



TYPE E



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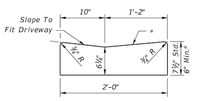
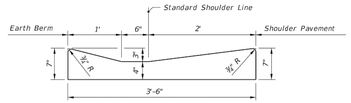
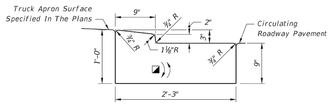


Note: To be paid for as parent curb.

DROP CURB

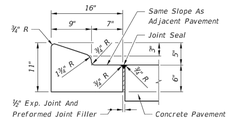


SHOULDER GUTTER



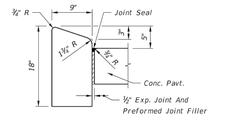
TRAFFIC BEARING SECTION FOR USE IN ROUNDABOUT CENTRAL ISLAND CONSTRUCTION

TYPE RA

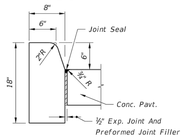


For details depicting usage adjacent to flexible pavement, see Sheet 2.

TYPE A



TYPE B



TYPE D

Note: For use adjacent to concrete or flexible pavement, concrete shown. Expansion joint, preformed joint filler and joint seal are required between curbs and concrete pavement only, see Sheet 2.

CONCRETE CURB

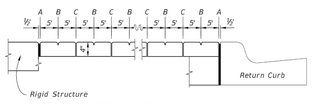
CONCRETE CURB AND GUTTER

LAST REVISION 11/01/17	DESCRIPTION:	FDOT FY 2020-21 STANDARD PLANS	CURB AND GUTTER	INDEX 520-001	SHEET 1 of 2

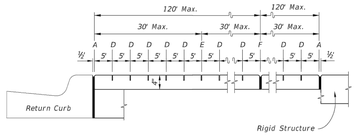
10/14/2019 11:05:46 AM

GENERAL NOTES:

1. Construct sidewalks in accordance with Specification 522. Use 6" concrete for Sidewalks and Curb Ramps Located within Curb Returns (See Plan View). Install all other concrete with thickness as shown, unless otherwise detailed in the Plans.
2. Include detectable warnings on sidewalk curb ramps in accordance with Index 522-002.
3. For Driveways see Index 522-003.
4. Bond breaker material can be any impermeable coated or sheet membrane or preformed material having a thickness of not less than 6 mils and not more than ½".
5. Construct sidewalks with Edge Beam through the limits of any surface mounted Pedestrian/Bicycle Railing or Pipe Guiderail shown in the plans. (See RAILING DETAIL)



OPEN JOINTS



SAWED JOINTS

LONGITUDINAL SECTION

LEGEND:

A- ½" Expansion Joints (Preformed Joint Filler) between the sidewalk and; driveways, sidewalk-intersections, and all other fixed objects (e.g. drainage inlets and utility poles).

B- ⅛" Dummy Joints, Tooled

C- ½" Formed Open Joints

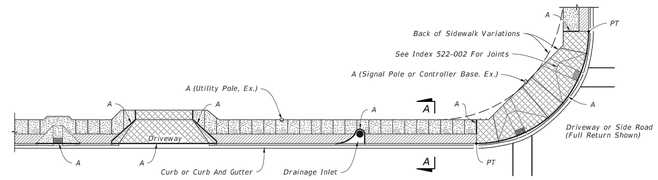
D- 3/16" Saw Cut Joints, 1½" Deep (within 96 hours) Max. 5' Centers

E- 3/16" Saw Cut Joints, 1½" Deep (within 12 hours) Max. 30' Centers Joint(s) Required When Length Exceeds 30'

F- ½" Expansion Joint When Run Of Sidewalk Exceeds 120'. Intermediate locations when called for in the plans or at locations as directed by the Engineer.

G- Cold Joint With Bond Breaker, Tooled

SIDEWALK JOINTS



PLAN

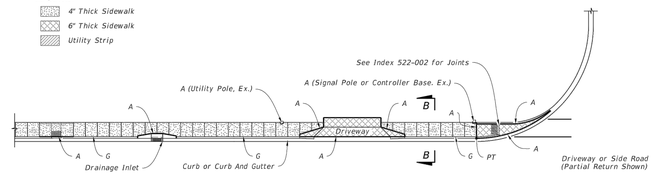
SIDEWALK WITH UTILITY STRIP

LEGEND:

4" Thick Sidewalk

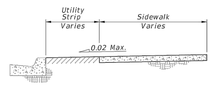
6" Thick Sidewalk

Utility Strip

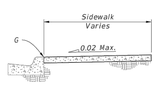


PLAN

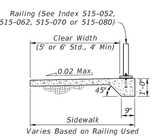
SIDEWALK WITHOUT UTILITY STRIP



SECTION A-A



SECTION B-B



RAILING DETAIL

GENERAL NOTES AND CONCRETE SIDEWALK ON CURBED ROADWAYS

LAST REVISION 11/01/18	DESCRIPTION:	FDOT FY 2020-21 STANDARD PLANS	CONCRETE SIDEWALK	INDEX 522-001	SHEET 1 of 2

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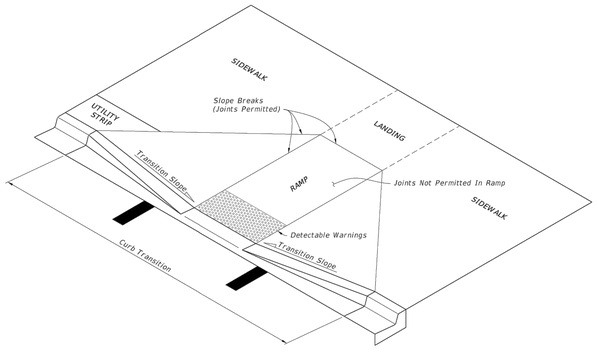
GENERAL NOTES:

1. Cross Slopes and Grades:
   - A. Sidewalk, ramp, and landing slopes (i.e. 0.02, 0.05, and 1:12) shown in this Index are maximums. With approval of the Engineer, provide the minimum feasible slope where the requirements cannot be met.
   - B. Landings must have cross-slopes less than or equal to 0.02 in any direction.
   - C. Maintain a single longitudinal slope along each side of the curb ramp. Ramp slopes are not required to exceed 15 feet in length.
   - D. Joints permitted at the location of Slope Breaks. Otherwise locate joints in accordance with Index 522-001. No joints are permitted within the ramp portion of the Curb Ramp.
2. Curb, Curb and Gutter and/or Sidewalk:
   - A. Refer to Index 522-001 for concrete thickness and sidewalk details.
   - B. Remove any existing curb, curb and gutter, or sidewalk to the nearest joint beyond the curb transition or to the extent that no remaining section is less than 5 feet long.
3. Curb Ramp Alpha-Identification:
   - A. Sidewalk curb ramp alpha-identifications (e.g. CR-A) are provided for reference purposes in the Plans.
   - B. Alpha-identifications CR-I and CR-J are intentionally omitted.
4. Detectable Warnings:
   - A. Install detectable warnings in accordance with Specification 527.
   - B. Place detectable warnings across the full width of the ramp or landing, to a minimum depth of 2 feet measured perpendicular to the curb line and no greater than 5 feet from the back of the curb or edge of pavement.
   - C. If detectable warnings are shown in the Plans on slopes greater than 5%, align the truncated domes with the centerline of the ramp; otherwise, the truncated domes are not required to be aligned.
5. Detectable Warnings - Acceptance Criteria:
   - A. Color and texture shall be complete and uniform.
   - B. 90% of individual truncated domes shall be in accordance with the Americans with Disabilities Act Standards for Transportation Facilities, Section 705.
   - C. There shall be no more than 4 non-compliant domes in any one square foot.
   - D. Non-compliant domes shall not be adjacent to other non-compliant domes.
   - E. Surfaces shall not deviate more than 0.10" from a true plane.



CURB RAMP NOMENCLATURE

LAST REVISION 11/01/19	DESCRIPTION:	FDOT FY 2020-21 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX 522-002	SHEET 1 of 7

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GENERAL NOTES:

1. When four or more work vehicles enter the through traffic lanes in a one hour period or less (excluding establishing and terminating the work area), the advanced FLAGGER sign shall be substituted for the WORKERS sign. For location of flaggers and FLAGGER signs, see Index 102-603.
2. SHOULDER WORK sign may be used as an alternate to the WORKER symbol sign only on the side where the shoulder work is being performed.
3. When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes.
4. For general TCZ requirements and additional information, refer to Index 102-600.

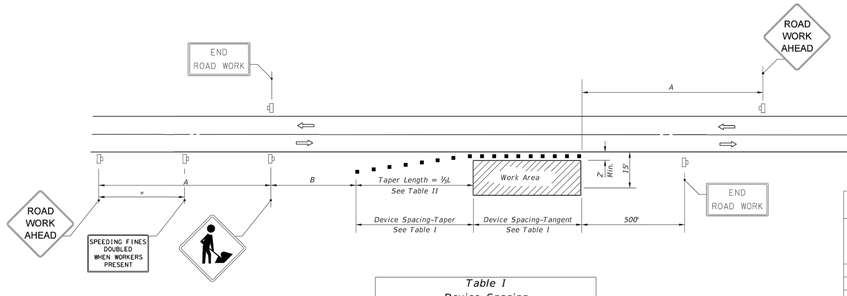

Table I
Device Spacing

Speed (mph)	Max. Distance Between Devices (ft.) Cones or Tubular Markers		Type I or Type II Barricades or Vertical Panels or Drums	
	Taper	Tangent	Taper	Tangent
25	25	50	25	50
30 to 45	25	50	30	50
50 to 70	25	50	50	100

DISTANCE BETWEEN SIGNS

Speed	Spacing (ft.) A	Spacing (ft.) B
40 mph or less	200	200
45 mph	350	350
50 mph or greater	500	500

*Midway between signs.

Table II
Taper Length - Shoulder

Speed (mph)	½L (ft) 8' Shldr.	10' Shldr.	12' Shldr.	Notes
25	28	35	42	$L = \frac{WS^2}{60}$
30	40	50	60	
35	55	68	82	
40	72	90	107	
45	120	150	180	L=WS
50	133	167	200	
55	147	183	220	
60	160	200	240	
65	173	217	260	
70	187	233	280	

8' minimum shoulder width

½L = Length of shoulder taper in feet

W = Width of total shoulder in feet (combined paved and unpaved width)

S = Posted speed limit (mph)

SYMBOLS

Work Area

Channelizing Device (See Index 102-600)

Work Zone Sign

Lane Identification + Direction of Traffic

DURATION NOTES

1. Signs and channelizing devices may be omitted if all of the following conditions are met:
   a. Work operations are 60 minutes or less.
   b. Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH THE AREA CLOSER THAN 15' BUT NOT CLOSER THAN 2' TO THE EDGE OF TRAVEL WAY.

LAST REVISION 11/01/17	DESCRIPTION:	FDOT FY 2020-21 STANDARD PLANS	TWO-LANE, TWO-WAY, WORK ON SHOULDER	INDEX 102-602	SHEET 1 of 1

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MARK	REVISION	DATE

DRAWING 21-032 CONST
DESIGNED JBB DRAWN JBB
CHECKED JBB SCALE NTS@20" DATE 04/30/21

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CIVIL & STRUCTURAL ENGINEERING LAND PLANNING . ENVIRONMENTAL PERMITTING
CERTIFICATION OF AUTHORIZATION NO.: 00006668
1717 INDIAN RIVER BLVD., SUITE 201 VERO BEACH, FLORIDA 32960
TEL 772-770-9622 FAX 772-770-9496 EMAIL jbittle@sbsengineers.com
WEBSITE https://www.sbsengineers.com

MISCELLANEOUS DETAILS

OCEAN VILLAGE CLUBHOUSE

ENGINEER CERTIFICATION

JODAH B. BITTLE LICENSE No 57396 STATE OF FLORIDA PROFESSIONAL ENGINEER

JODAH B. BITTLE
FL. REG. NO. 57396 Jodah Bittle
DATE: 5/26/2021

PROJECT NO. 21-032 SHEET 09

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FORT PIERCE UTILITIES AUTHORITY
WATER DISTRIBUTION NOTES

1. ALL CONSTRUCTION MATERIAL, INSTALLATION AND TESTING SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE FORT PIERCE UTILITIES AUTHORITY.
2. WATER MAINS WHERE SPECIFIED AS POLYVINYL CHLORIDE (PVC) SHALL CONFORM TO AWWA C-900 OR C-905, PRESSURE CLASS 150, DR (18). WATER MAINS WHERE SPECIFIED AS POLYETHYLENE (PE) SHALL CONFORM TO AWWA C-901 OR C-906, STANDARD CODE DESIGNATION PE3408, PIPE CLASS 200, DIMENSION RATIO (DR) 17 FOR DIRECT BURY, (DR) 11 FOR DIRECTIONAL BORING, AND (DR) 9 FOR 2 INCH AND SMALLER PIPELINES.
3. WATER MAIN, WHERE SPECIFIED AS DUCTILE IRON PIPE , SHALL CONFORM TO ANSI/AWWA C151/A21.51 AND SHALL BE PRESSURE CLASS 250 (MINIMUM).
4. POLYVINYL CHLORIDE WATER MAIN SHALL BE BLUE IN COLOR OR WHITE IN COLOR WITH BLUE STRIPES. THE USE OF IDENTIFICATION TAPE ATTACHED TO THE TOP OF THE PIPE MAY BE USED IN LIEU OF MARKING ON THE PIPE, ALSO DIP PIPE SHALL REQUIRE THE USE OF IDENTIFICATION TAPE AND THINN WIRE.
5. FITTINGS SHALL BE DUCTILE IRON CONFORMING TO ANSI/AWWA C-110/A21.10, CLASS 250 MIN., CEMENT LINED AND FACTORY COATED
6. GATE VALVES SHALL BE MUELLER RESILIENT SEAT, KENNDY KEN-SEAL, AMERICAN OR APPROVED EQUAL. VALVES SHALL CONFORM TO AWWA C-509.
7. WATER LINES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH FPUA DESIGN AND CONSTRUCTION STANDARDS. THE CONTRACTOR SHALL SUBMIT CERTIFIED DENSITY TESTS AS REQUIRED BY FPUA ENGINEERING AND THE CITY, COUNTY, FDOT, IN CASES WHERE PAVED AREAS FALL WITHIN THE JURISDICTION OF LOCAL OR STATE AGENCIES, THE COMPACTION REQUIREMENTS SHALL NOT BE LESS THAN THE MINIMUM REQUIRED BY THE APPROPRIATE RESPONSIBLE AGENCY.
8. NO FIELD CHANGES OR DEVIATIONS FROM THE DESIGN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE FPUA ENGINEER AND CITY/COUNTY/FDOT ENGINEER.
9. THE CONTRACTOR SHALL NOTIFY FPUA ENGINEERING AND CITY/COUNTY/FDOT ENGINEERING 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
10. A PRE-CONSTRUCTION CONFERENCE BETWEEN THE ENGINEER, THE CONTRACTOR, FPUA, AND CITY/ COUNTY/FDOT ENGINEER SHALL BE MANDATORY PRIOR TO COMMENCEMENT OF CONSTRUCTION.
11. TRAFFIC CONTROL, BARRICADES, ETC., SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF OF TRANSPORTATION STANDARDS AND APPROVED BY THE CITY ENGINEER.
12. MINIMUM COVER SHALL BE 36 INCHES EXCEPT AS APPROVED BY THE UTILITIES ENGINEER AND CITY/ COUNTY/FDOT ENGINEER. PIPES WITH COVER LESS THAN 30 INCHES SHALL BE CONSTRUCTED OF DUCTILE IRON OR IN PVC CASING.
13. DISTURBED AREAS SHALL BE RESTORED IN CONFORMANCE WITH THE APPLICABLE GOVERNING AGENCY REQUIREMENTS.
14. EXISTING UTILITIES AND DRAINAGE SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION AND PROTECTED BY THE CONTRACTOR.
15. WATER MAINS SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH THE APPLICABLE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND AWWA C-651 FOR DISINFECTION.

WATER DISTRIBUTION	G-1 NOTES
02-06 DATE: DESIGNED: JJM DRAWN BY: JJM APPROVED: JLC	REVISION: COMPUTER FILE # DETAIL NOTES 200602.DWG SCALE: N.T.S. DATE: 2010
WATER/WASTEWATER ENGINEERING	FT. PIERCE UTILITIES AUTHORITY
SHEET 1 OF 2	

FORT PIERCE UTILITIES AUTHORITY
WATER DISTRIBUTION NOTES
CONTINUED

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXISTING UTILITIES AND DRAINAGE.
17. THE CONTRACTOR SHALL FURNISH RECORD DRAWING INFORMATION TO THE ENGINEER INCLUDING LOCATIONS OF VALVES, FITTINGS, SERVICE CONNECTIONS, BLOWOFFS, AIR RELEASE VALVES, AND ANY OTHER PERTINENT INFORMATION NECESSARY TO LOCATE ITEMS CONSTRUCTED UNDER THIS PROJECT, AS REQUIRED BY THE UTILITIES ENGINEER.
18. THE CONTRACTOR SHALL TAP EXISTING LINES UNDER THE SUPERVISION OF THE FORT PIERCE UTILITIES AUTHORITY ONLY AFTER TESTING AND DISINFECTION HAS BEEN COMPLETED AND APPROVED ON THE TAPPING VALVE AND SLEEVE.
19. WATER MAIN SHALL BE MARKED BY THE USE OF CONTINUOUS 10 GAUGE THHN MULTI STRANDED WIRE (BLUE IN COLOR) AND IDENTIFICATION TAPE WITH "WATER" MARKED ON TAPE, PERMANENTLY ATTACHED TO THE TOP OF THE WATER MAIN IN ACCORDANCE WITH THE FORT PIERCE UTILITIES AUTHORITY SPECIFICATIONS.
20. SERVICE TAPS SHALL BE PLACED APPROXIMATELY TEN FEET AWAY FROM GATE VALVES, AS SHOWN, FOR TESTING. FOLLOWING TESTING AND STERILIZATION OF WATER LINE. CONTRACTOR SHALL PLACE A BRASS PLUG IN CORPORATION STOPS AND CURB STOPS SHALL BE REMOVED FROM TESTING LOCATIONS.
21. MECHANICAL RESTRAINTS TO BE USED ON ALL FITTINGS AND PLACED IN ACCORDANCE WITH MANUFACTURER'S OR ENGINEER'S RECOMMENDATIONS (WHICHEVER IS MORE STRINGENT) AND FPUA REQUIREMENTS.
22. ALL MAINS SHALL BE TESTED AT A MINIMUM OF 150 PSI. TESTING METHODS SHALL CONFORM TO AWWA C-600. – 2 HR MINIMUM TEST

$$L = \frac{SD(P)\ 1/2}{148,000}$$

L= LEAKAGE IN GPH
S= LENGTH OF PIPE IN FEET
D= PIPE DIAMETER IN INCHES
P= TESTING PRESSURE IN PSI

23. PRIOR TO ANY TESTING, ALL MAINS 6" IN DIA. AND LARGER SHALL HAVE A SWAB PASSED THRU THE ENTIRE LENGTH OF THE LINE. NOTE: SWAB SHOULD BE PLACED IN 1st. JOINT OF NEW LINE. END OF MAIN SHOULD BE "TURNED UP" AT 45% AND EXTENDED SO THAT SWABBING AND A FULL BORE FLUSH CAN BE ACCOMPLISHED. BLOW-OFF' ASSY CAN THEN BE PLACED, WHERE LINES BRANCH, SWABS WILL BE PLACED IN BRANCH LINES AND SEQUENTIALLY SWABBED AND FLUSHED.
24. A MINIMUM SIX FEET AND PREFERABLY TEN FEET HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN THE WATER MAIN AND ANY WASTEWATER LINES. 6 INCHES MINIMUM VERTICAL SEPARATION IF WATER MAIN IS OVER WASTEWATER AND 12 INCHES IF WATER MAIN IS UNDER SHALL BE MAINTAINED BETWEEN THE WATER MAIN AND ANY WASTWATER LINES. THE DISTANCE SHALL BE MEASURED FROM THE OUTSIDE OF PIPE OR STRUCTURE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE WASTEWATER PIPE JOINTS AND THE WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING, AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT ALL CROSSINGS.
25. WHERE A WATER MAIN IS TO BE INSTALLED BELOW A STORM DRAIN PIPE, A MINIMUM OF 6 INCHES OF VERTICAL CLEARANCE BETWEEN PIPES SHALL BE CONSTRUCTED OF DIP AT THE CROSSING, AND SHALL BE MECHANICALLY RESTRAINED WITHIN 20 FEET OF THE CROSSING.
26. CONTRACTOR SHALL COMPLY WITH FLORIDA TRENCH SAFETY ACT REQUIREMENTS.

WATER DISTRIBUTION	G-1 NOTES
02-06 DATE: DESIGNED: JJM DRAWN BY: JJM APPROVED: JLC	REVISION: COMPUTER FILE # DETAIL NOTES 200602.DWG SCALE: N.T.S. DATE: 2010
WATER/WASTEWATER ENGINEERING	FT. PIERCE UTILITIES AUTHORITY
SHEET 2 OF 2	

FORT PIERCE UTILITIES AUTHORITY WASTEWATER CONSTRUCTION NOTES

1. ALL CONSTRUCTION MATERIAL, INSTALLATION AND TESTING SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE FORT PIERCE UTILITIES AUTHORITY.
2. GRAVITY SEWER MAIN SHALL BE POLYVINYL CHLORIDE SDR-26, GREEN OR WHITE IN COLOR, GRAVITY SEWER MAIN SHALL HAVE LOCATOR TAPE WITH "SEWER" MARKED ON TAPE AND SHALL CONFORM TO ASTM D-3034.
3. THE MANHOLE BASE SHALL BE SET ON A FIRM, DRY AND STABLE OR COMPACTED BASE FOUNDATION. IF NECESSARY, THE CONTRACTOR SHALL UTILIZE ROCK TO PROVIDE A FIRM AND SUITABLE MANHOLE BASE FOUNDATION.
4. WASTEWATER LINES SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH FPUA DESIGN AND CONSTRUCTION STANDARDS. THE CONTRACTOR SHALL SUBMIT CERTIFIED DENSITY TESTS AS REQUIRED BY FPUA ENGINEERING AND THE CITY ENGINEERING DEPARTMENT. IN CASES WHERE PAVED AREAS FALL WITHIN THE JURISDICTION OF LOCAL OR STATE AGENCIES, THE COMPACTION REQUIREMENTS SHALL NOT BE LESS THEN THE MINIMUM REQUIRED BY THE APPROPRIATE RESPONSIBLE AGENCY.
5. A 1% MINIMUM SLOPE SHALL BE MAINTAINED ON ALL SANITARY SERVICE LATERALS.
6. THE CONTRACTOR SHALL FURNISH RECORD DRAWING INFORMATION TO THE ENGINEER CONSISITING OF PIPE SIZES, LOCATION OF SERVICE TEE WYES, DIAMETER OF SERVICES, LOCATION OF ANY FITTINGS, FINAL RIM AND INVERT ELEVATION OF ALL MANHOLES AND ANY OTHER PERTINENT INFORMATION NECESSARY TO LOCATE ITEMS CONSTRUCTED UNDER THIS PROJECT.
7. MAINTAIN SIX FEET AND PREFERABLY 10 FEET HORIZONTAL DISTANCE BETWEEN WATER MAINS AND SEWER MAINS AS A MINIMUM.
8. WASTEWATER FORCE MAINS, WASTEWATER COLLECTION LINES, AND STORM SEWERS SHOULD CROSS UNDER WATER MAINS WHENEVER POSSIBLE. A MINIMUM VERTICAL DISTANCE OF 12 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE SHALL BE PROVIDED WHENEVER POSSIBLE. WHERE THIS MINIMUM SEPARATION CANNOT BE MAINTAINED, THE CROSSING SHALL BE ARRANGED SO THAT THE WASTEWATER PIPE JOINTS AND THE WATER PIPE JOINTS ARE EQUIDISTANCE FROM THE POINT OF CROSSING, AND THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) AT THE CROSSING. SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN ANY TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED. A MINIMUM VERTICAL CLEARANCE OF 6 INCHES MUST BE MAINTAINED AT ALL CROSSINGS.
9. A PRE-CONSTRUCTION CONFERENCE BETWEEN THE ENGINEER, THE CONTRACTOR, AND FPUA/CITY COUNTY/FDOT SHALL BE MANDATORY PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
10. NO FIELD CHANGES OR DEVIATIONS FORM THE DESIGN SHALL BE MADE WITHOUT PRIOR APPROVAL FPUA/CITY/COUNTY/FDOT ENGINEER.
11. TRAFFIC CONTROL, BARRICADES, ETC. SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS.
12. CONTRACTOR SHALL NOTIFY FORT PIERCE UTILITIES AUTHORITY 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
13. WASTEWATER FORCE MAIN SHALL BE POLYVINYL CHLORIDE CONFORMING TO AWWA C-900, AND SHALL BE CLASS 150, DR-18.
14. WASTEWATER FORCE MAIN SHALL BE GREEN IN COLOR.
15. FITTINGS SHALL BE DUCTILE IRON, CONFORMING TO ANSI/AWWA C-110/A21.10 CLASS 250 MIN. AND INTERIOR EPOXY COATED.
16. WASTEWATER FORCE MAIN SHALL BE MARKED BY THE USE OF CONTINUOUS 10 GAUGE THHN WIRE (GREEN IN COLOR) PERMANENTLY ATTACHED TO THE TOP OF THE FORCE MAIN WITH LOCATOR TAPE MARKED "SEWER" ON TAPE IN ACCORDANCE WITH FPUA SPECIFICATIONS.
17. MINIMUM COVER SHALL BE 36 INCHES, PIPES WITH COVER LESS THAN 30 INCHES SHALL REQUIRE PRIOR APPROVAL OF THE UTILITES ENGINEER AND SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE.
18. EACH SERVICE LATERAL WILL BE MARKED WITH A LOCATOR BALL AS MANUFACTURED BY 3M CORPORATION, OR APPROVED EQUAL AS REQUIRED BY FPUA ENGINEER.
19. ALL MANHOLES SHALL HAVE SEWER RAIN GUARDS INSTALLED AS REQUIRED BY FPUA ENGINEER.
20. THE CONTRACTOR SHALL COMPLY WITH THE FLORIDA TRENCH SAFETY ACT REQUIREMENTS.

WASTEWATER CONSTRUCTION NOTES FPUA REQUIREMENTS	G-2 CONSTRUCTION NOTES
02-06 DATE: DESIGNED: JJM DRAWN BY: JJM APPROVED: JLC	REVISION: COMPUTER FILE # DETAIL NOTES 200602.DWG SCALE: N.T.S. DATE: 2010
WATER/WASTEWATER ENGINEERING	FT. PIERCE UTILITIES AUTHORITY
SHEET 1 OF 1	

STANDARD SEPARATION STATEMENT FOR WATER / SEWER CONFLICTS

1. SANITARY SEWER, FORCE MAINS, AND STORM SEWERS SHOULD CROSS UNDER WATER MAINS WHENEVER POSSIBLE. SANITARY SEWERS, FORCE MAINS AND STORM SEWERS CROSSING UNDER WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 6 INCHES, PREFERABLY 12 INCHES BETWEEN THE INVERT OF THE UPPER PIPE AND THE CROWN OF THE LOWER PIPE WHEN ABOVE, AND AT LEAST 12 INCHES OF SEPARATION WHEN THE WATER MAIN IS BELOW.

WHERE SANITARY SEWER, FORCE MAINS, STORM SEWERS MUST CROSS A WATER MAIN WITH LESS THAN 6 INCHES VERTICAL SEPARATION, BOTH THE SEWER AND WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) CENTERED ON THE CROSSING. (DIP IS NOT REQUIRED FOR STORM SEWERS.) SUFFICIENT LENGTHS OF DIP MUST BE USED TO PROVIDE A MINIMUM SEPARATION OF 10 FEET BETWEEN TWO JOINTS. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED.

ALL CROSSINGS SHALL BE ARRANGED SO THAT THE SEWER PIPE JOINTS AND WATER MAIN PIPE JOINTS ARE EQUIDISTANT FROM THE POINT OF CROSSING (PIPES CENTERED ON THE CROSSING). AT SUCH CROSSINGS PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

WHERE A NEW PIPE CONFLICTS WITH AN EXISTING PIPE WITH LESS THAN 6 INCHES VERTICAL CLEARANCE, THE NEW PIPE SHALL BE CONSTRUCTED OF DIP (EXCEPT STORM SEWERS) AND NEW PIPES SHALL BE ARRANGED TO MEET THE CROSSING REQUIREMENTS ABOVE.

2. A MINIMUM 3-FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF STORM SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.

A MINIMUM 3-FOOT, AND PREFERABLE 10-FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN VACUUM TYPE SANITARY SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.

A MINIMUM 10-FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN "ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.

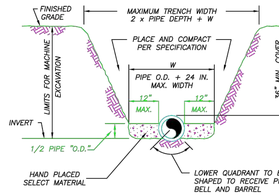
A MINIMUM 6-FOOT, AND PREFERABLE 10-FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN GRAVITY OR PRESSURE TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO 3 FOOT WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER

IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10-FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON A UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 6 INCHES ABOVE THE TOP OF THE SEWER.

WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 6 INCHES IN PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SEWER OR THE FORCE MAIN SHALL BE CONSTRUCTED OF DIP (EXCEPT STORM SEWER) WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).

3. ALL DIP SHALL BE PRESSURE CLASS 250 MIN.. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED AS DETERMINED BY THE DESIGN ENGINEER.

STANDARD SEPARATION STATEMENT FOR WATER/SEWER CONFLICT	G-3 WATER/SEWER CONFLICT
02-06 DATE: DESIGNED: JJM DRAWN BY: JJM APPROVED: JLC	REVISION: COMPUTER FILE # DETAIL NOTES 200602.DWG SCALE: N.T.S. DATE: 2010
WATER/WASTEWATER ENGINEERING	FT. PIERCE UTILITIES AUTHORITY
SHEET 1 OF 1	

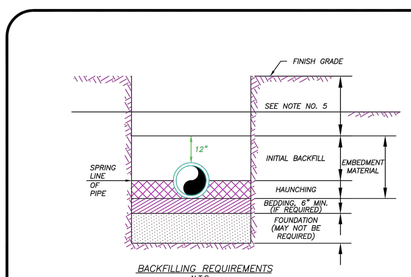


NOTES:

1) THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF THE FLORIDA TRENCH SAFETY ACT.
2) INITIAL BACKFILL SHALL BE HAND PLACED TO 12" ABOVE THE PIPE. BACKFILL SHALL BE MECHANICALLY TAMPED TO A MINIMUM OF 100% OF MAX. DENSITY AS DETERMINED BY AASHTO METHOD T-99.

TYPICAL TRENCH DETAIL
N.T.S.

TYPICAL TRENCH DETAIL	M-1
03-09 DATE: DESIGNED: JLC DRAWN BY: RM APPROVED: JLC	CONCRETE SLAB REVISION: COMPUTER FILE # MISC. DETAILS 200602.DWG SCALE: DATE: 2015
SLL BY: APPD:	WATER/WASTEWATER ENGINEERING
	FT. PIERCE UTILITIES AUTHORITY
	SHEET 1 OF 1

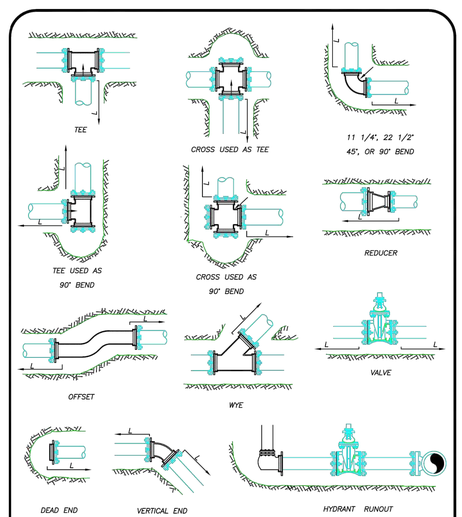


BACKFILLING REQUIREMENTS
N.T.S.

NOTES:

1) IN CERTAIN SOIL CONDITIONS A FOUNDATION MAY BE REQUIRED.
2) BEDDING IS REQUIRED PRIMARILY TO BRING THE TRENCH BOTTOM UP TO GRADE. BEDDING MATERIALS SHALL PROVIDE A UNIFORM AND ADEQUATE LONGITUDINAL SUPPORT UNDER THE PIPE.
3) HAUNCHING MATERIAL SHALL BE HAND PLACED TO THE SPRINGLINE OF THE PIPE. MATERIAL SHALL BE CONSOLIDATED UNDER THE PIPE AND HAND TAMPED TO PROVIDE ADEQUATE SIDE SUPPORT.
4) INITIAL BACKFILL MATERIAL SHALL BE HAND PLACED TO 12" ABOVE THE TOP OF PIPE. THE SOIL SHALL BE COMPACTED TO 100% MAX. DENSITY.(AASHTO T-99)
5) BACKFILL SHALL BE COMPACTED TO 100% OF MAX. DENSITY AS PER AASHTO T-99, TO A POINT 30" BELOW PROPOSED PROFILE GRADE OR EXISTING GRADE. THE FINAL 30" OF BACKFILL SHALL BE COMPACTED TO 98% OF MAX. DENSITY AS PER AASHTO T-180.
6) DENSITY TEST SHALL BE PERFORMED AT AREAS DETERMINED BY THE UTILITIES ENGINEER OR PERMIT AGENCY HAVING JURISDICTION, AT THE CONTRACTORS EXPENSE.
7) CONTRACTOR TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL TRENCH SAFETY REGULATIONS.

BACKFILLING REQUIREMENTS	M-2
03-09 DATE: DESIGNED: JLC DRAWN BY: SLL APPROVED: JLC	CONCRETE SLAB REVISION: COMPUTER FILE # MISC. DETAILS 200602.DWG SCALE: DATE: 2015
SLL BY: APPD:	WATER/WASTEWATER ENGINEERING
	FT. PIERCE UTILITIES AUTHORITY
	SHEET 1 OF 1



MECHANICAL JOINT ANCHORING REQUIREMENTS
N.T.S.

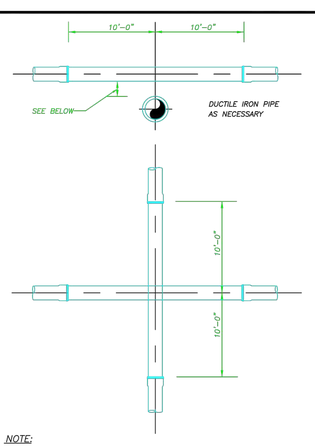
MECHANICAL JOINT ANCHORING REQUIREMENTS	M-3
03-09 DATE: DESIGNED: JLC DRAWN BY: SLL APPROVED: JLC	CONCRETE SLAB REVISION: COMPUTER FILE # MISC. DETAILS 200602.DWG SCALE: DATE: 2015
SLL BY: APPD:	WATER/WASTEWATER ENGINEERING
	FT. PIERCE UTILITIES AUTHORITY
	SHEET 1 OF 1

MECHANICAL JOINT RESTRAINT NOTES

NOTES:

1) THE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING THE REQUIRED LENGTH TO BE RESTRAINED BASED UPON THE PROJECT AREA SOIL TYPE, PROPOSED TRENCH CONDITIONS AND DEPTH, PRESSURE OF 150 PSI, AND A SAFETY FACTOR OF TWO (2). A DRAWING OF EVERY TYPICAL FITTING ASSEMBLY WITHIN THE PROJECT SHALL BE SUBMITTED WHICH REFLECTS THE RESTRAINT DETAIL PROPOSED FOR USE, INCLUDING LENGTH OF PIPE RESTRAINT.
2) REQUIRED RESTRAINED LENGTH CALCULATIONS SHALL ALSO CONSIDER THE CONDITIONS OF OTHER BENDS OR FITTINGS THAT WILL BE LOCATED WITHIN THE CALCULATED RESTRAINED LENGTH (L) OF THE BEND OR FITTING IN QUESTION.
3) EVERY JOINT OR FITTING MUST BE RESTRAINED ON BOTH SIDES OF THE BEND AND FOR TEES ALONG THE BEND ALSO.

MECHANICAL JOINT RESTRAINT NOTES	M-4
03-09 DATE: DESIGNED: JLC DRAWN BY: SLL APPROVED: JLC	CONCRETE SLAB REVISION: COMPUTER FILE # MISC. DETAILS 200602.DWG SCALE: DATE: 2015
SLL BY: APPD:	WATER/WASTEWATER ENGINEERING
	FT. PIERCE UTILITIES AUTHORITY
	SHEET 1 OF 1

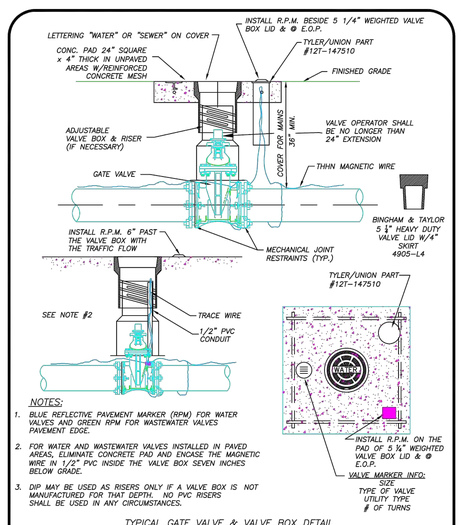


NOTE:

PLEASE REFER TO FORT PIERCE UTILITIES STANDARD SEPARATION STATEMENT FOR WATER / SEWER CONFLICTS.

UTILITY CROSSING DETAIL
N.T.S.

UTILITY CROSSING DETAIL	M-5
03-09 DATE: DESIGNED: JLC DRAWN BY: SLL APPROVED: JLC	CONCRETE SLAB REVISION: COMPUTER FILE # MISC. DETAILS 200602.DWG SCALE: DATE: 2015
SLL BY: APPD:	WATER/WASTEWATER ENGINEERING
	FT. PIERCE UTILITIES AUTHORITY
	SHEET 1 OF 1



NOTES:

1. BLUE REFLECTIVE PAVEMENT MARKER (RPM) FOR WATER VALVES AND GREEN RPM FOR WASTEWATER VALVES PAVEMENT EDGE.
2. FOR WATER AND WASTEWATER VALVES INSTALLED IN PAVED AREAS, ELIMINATE CONCRETE PAD AND ENCASE THE MAGNETIC WIRE IN 1/2" PVC INSIDE THE VALVE BOX SEVEN INCHES BELOW GRADE.
3. DIP MAY BE USED AS RISERS ONLY IF A VALVE BOX IS NOT MANUFACTURED FOR THAT DEPTH. NO PVC RISERS SHALL BE USED IN ANY CIRCUMSTANCES.

TYPICAL GATE VALVE & VALVE BOX DETAIL
N.T.S.

TYPICAL GATE VALVE & VALVE BOX DETAIL	M-6
03-09 DATE: DESIGNED: JLC DRAWN BY: SLL APPROVED: JLC	CONCRETE SLAB REVISION: COMPUTER FILE # MISC. DETAILS 200602.DWG SCALE: DATE: 2015
SLL BY: APPD:	WATER/WASTEWATER ENGINEERING
	FT. PIERCE UTILITIES AUTHORITY
	SHEET 1 OF 1

MARK	REVISION	DATE

DRAWING 21-032 CONST	DRAWN JBB
DESIGNED JBB	
CHECKED JBB	DATE 04/30/21
SCALE NTS(O)	

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SCHULKE, BITTLE & STODDARD, L.L.C.
CIVIL & STRUCTURAL ENGINEERING · ENVIRONMENTAL PERMITTING
CERTIFICATION OF AUTHORIZATION NO.: 00008668
1717 INDIAN RIVER BLVD., SUITE 201 VERO BEACH, FLORIDA 32960
TEL 772-770-9622 FAX 772-770-9496 EMAIL jbittle@sbsengineers.com
WEBSITE https://www.sbsengineers.com

MISCELLANEOUS DETAILS

OCEAN VILLAGE CLUBHOUSE

ENGINEER CERTIFICATION

JODAH B. BITTLE LICENSE No 57396 ★ STATE OF FLORIDA PROFESSIONAL ENGINEER

JODAH B. BITTLE
FL REG. NO. 57396
DATE: 5/26/2021

PROJECT NO.	SHEET
21-032	10

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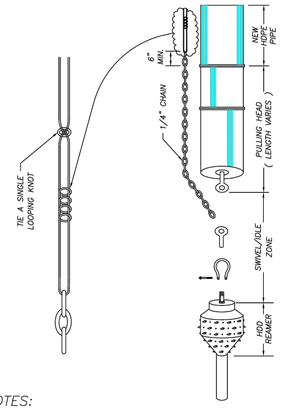
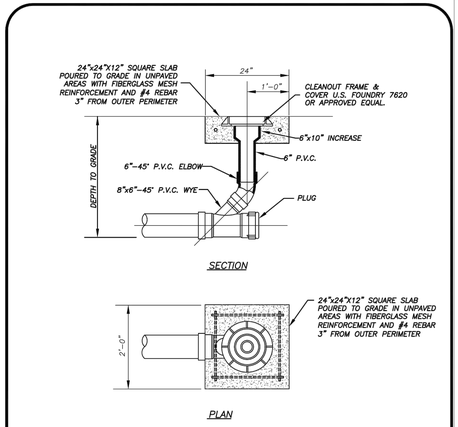


NOTES:

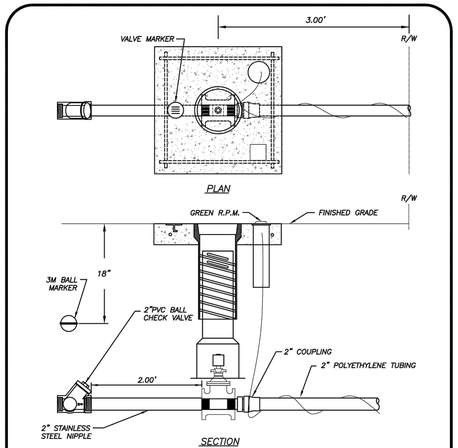
1. WHERE DIRECTIONAL DRILLING LENGTHS EXCEED 750 LINEAR FEET AND/OR HDPE PIPE DIAMETER EXCEED 12 INCHES, A SECOND LENGTH OF TRACE WIRE SHALL BE INSTALLED.
2. TRACE WIRE SHALL CONFORM TO THE FOLLOWING SPECIFICATION:
   MANUFACTURER – COPPERHEAD INDUSTRIES, LLC
   PART NUMBER – 1245B–EHS–500 / 1245B–EHS–1000 / 1245B–EHS–2500
   PART NUMBER DESCRIPTION – 12 (AWG), 45 (JACKET MIL), B (JACKET COLOR: B=BLUE, G=GREEN, ETC.) – EHS (EXTRA HIGH STRENGTH–HARD DRAWN / 1150# BREAKING LOAD STRENGTH) – 500 (WIRE LENGTH IN FEET)

FPUA COMMUNITY PROUD	DIRECTIONAL BORE WIRE ATTACHMENT	M–16
FT. PIERCE UTILITIES AUTHORITY WATER/WASTEWATER ENGINEERING 1701 SOUTH 25TH STREET FT. PIERCE, FLORIDA 34947 772-466-1600	12–09 CONCRETE SLAB SLL JLC DATE: REVISION: BY: APP'D: DESIGNED: COMPUTER FILE # JLC MISC. DETAILS 2006Q2.DWG DRAWN BY: SCALE: SLL APPROVED: DATE: JLC 2015	WATER/WASTEWATER ENGINEERING FT. PIERCE UTILITIES AUTHORITY SHEET 1 OF 1



TERMINAL CLEANOUT DETAIL (COMMERCIAL)
(N.T.S.)

FPUA COMMUNITY PROUD	TERMINAL CLEANOUT DETAIL WASTEWATER	S–4B
FT. PIERCE UTILITIES AUTHORITY WATER/WASTEWATER ENGINEERING 1701 SOUTH 25TH STREET FT. PIERCE, FLORIDA 34947 772-466-1600	12–08 RISE DATE: REVISION: BY: APP'D: DESIGNED: COMPUTER FILE # JLC SEWER DETAIL 2006Q2.DWG DRAWN BY: SCALE: SLL N.T.S. APPROVED: DATE: JLC 2019	WATER/WASTEWATER ENGINEERING FT. PIERCE UTILITIES AUTHORITY SHEET 2 OF 3



NOTES:

1. FORCE MAIN CONNECTION SHALL CONSIST OF A 2" TAPPING SADDLE, 2" STAINLESS STEEL NIPPLE AND 2" THREADED RESILIENT SEAT GATE VALVE
2. GREEN 10 GAUGE THHN WIRE SHALL BE ATTACHED TO THE SERVICE LINE.
3. WHERE SERVICES UNDER PAVEMENT ARE REQUIRED, THE POLYETHYLENE TUBING SHALL BE INSTALLED WITHIN SCHEDULE 40 PVC CASING PIPE.
4. MINIMUM COVER IN UNPAVED AREAS SHALL BE 30", IN PAVED AREAS OR PLANNED ROADWAYS OR SWALES MIN. COVER SHALL BE 36".

FPUA COMMUNITY PROUD	GRINDER STATION CONNECTION	S–16
FT. PIERCE UTILITIES AUTHORITY WATER/WASTEWATER ENGINEERING 1701 SOUTH 25TH STREET FT. PIERCE, FLORIDA 34947 772-466-1600	03–09 DESIGN SLL JLC DATE: REVISION: BY: APP'D: DESIGNED: COMPUTER FILE # JLC COMPUTER# DRAWN BY: SCALE: SLL N.T.S. SCALE APPROVED: DATE: JLC 2010	WATER/WASTEWATER ENGINEERING FT. PIERCE UTILITIES AUTHORITY SHEET 1 OF 1

GENERAL POLICY

WHERE COST JUSTIFIED AND OPERATIONALLY FEASIBLE, IT IS THE GENERAL POLICY OF THE F.P.U.A. TO PROVIDE WATER, ELECTRIC, SEWER AND GAS SERVICE FROM THE STREET SIDE OF A PIECE OF PROPERTY, DEPENDING ON FACTORS SUCH AS LOCATION OF EXISTING SUPPLY SOURCE FACILITIES, REAR OR SIDE LOT LINE SUPPLY MAY BE AUTHORIZED, BUT ONLY WITH PRIOR APPROVAL FROM THE F.P.U.A.

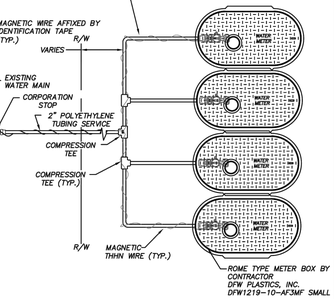


NOTES:

1. THE PREFERRED POINT OF CONNECTION TO THE F.P.U.A. WATER METER, AREA ③ SHALL BE LOCATED IN THE CORNER OF THE PROPERTY SELECTED BY THE F.P.U.A. AS THE BEST LOCATION FOR THE WATER METER. EVERY EFFORT WILL BE MADE TO SELECT THE CORNER WHERE TWO WATER SERVICES AND METERS CAN BE CONNECTED.
2. IF PHYSICAL BARRIERS OR OTHER OBSTACLES PREVENT THE CONNECTION OF THE BUILDING SERVICE LINE TO THE F.P.U.A. WATER SERVICE, WITHIN AREA ③ , THE F.P.U.A. ENGINEERING DEPARTMENT MAY AUTHORIZE THE CONNECTION ALONG THE PORTION OF THE R/W LINE MARKED AREA ② , OR ALONG THE PROPERTY LINES MARKED AREA ① .
3. HORIZONTAL SEPARATION OF WATER AND WASTEWATER SERVICES SHOULD BE A MINIMUM OF 6 FEET AND PREFERABLY 10 FEET.
4. ALL METERS SHALL BE INSTALLED IN AN UNRESTRICTED AREA FOLLOWING EASE OF ACCESS AND PROVIDING ADEQUATE PROTECTION.
5. THE F.P.U.A. SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REPAIR OF THE WATER LATERAL WITHIN THE EASEMENT OR RIGHT–OF–WAY, UP TO THE POINT OF CONNECTION.

WATER METER PLACEMENT
(N.T.S.)

FPUA COMMUNITY PROUD	WATER METER PLACEMENT POLICY	W–1
FT. PIERCE UTILITIES AUTHORITY WATER/WASTEWATER ENGINEERING 1701 SOUTH 25TH STREET FT. PIERCE, FLORIDA 34947 772-466-1600	03–09 02–15 SLL DATE: REVISION: BY: APP'D: DESIGNED: COMPUTER FILE # JLC WATER DETAILS 2006Q2.DWG DRAWN BY: SCALE: SLL N.T.S. APPROVED: DATE: JLC 2019	WATER/WASTEWATER ENGINEERING FT. PIERCE UTILITIES AUTHORITY SHEET 1 OF 1

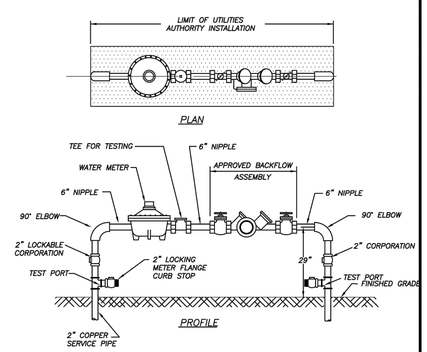


NOTES:

1. BLUE 10 GAUGE THHN WIRE SHALL BE ATTACHED TO THE SERVICE LINE AND RAN TO OUTER METERS ONLY.
2. WHERE SERVICES UNDER PAVEMENT ARE REQUIRED, THE POLYETHYLENE TUBING SHALL BE INSTALLED WITHIN SCHEDULE 40 PVC CASING PIPE.
3. ALL METER SIZES SHALL REQUIRE LOCKABLE METER VALVE. (CURB STOP)
4. MINIMUM COVER IN UNPAVED AREAS SHALL BE 30", IN PAVED AREAS OR PLANNED ROADWAYS OR SWALES MIN. COVER SHALL BE 36".
5. POLY SERVICE LINE SHALL VARY IN SIZE PER COMMERCIAL USE.
6. F.P.U.A. SHALL REMOVE METER BOXES AND INSTALL STAND PIPES AT THE TIME OF CONNECTION.

TYPICAL MULTIPLE WATER SERVICE CONNECTION (COMMERCIAL)
(N.T.S.)

FPUA COMMUNITY PROUD	TYPICAL MULTIPLE WATER SERVICE CONNECTION (COMMERCIAL)	W–4A
FT. PIERCE UTILITIES AUTHORITY WATER/WASTEWATER ENGINEERING 1701 SOUTH 25TH STREET FT. PIERCE, FLORIDA 34947 772-466-1600	03–09 DESIGN SLL JLC DATE: REVISION: BY: APP'D: DESIGNED: COMPUTER FILE # JLC W–4.DWG DRAWN BY: SCALE: SLL N.T.S. APPROVED: DATE: JLC 2020	WATER/WASTEWATER ENGINEERING FT. PIERCE UTILITIES AUTHORITY SHEET 1 OF 1



NOTES:

1. LANDSCAPING REQUIRED PER CITY OF FORT PIERCE OR ST. LUCIE COUNTY ORDINANCE. NO PLANTS OR TREES WITHIN 18" AROUND METER OR BACKFLOW. NO SOLDER JOINTS.
2. ASSEMBLY TO BE 29" FROM FINISH GRADE TO CENTERLINE OF THE FLANGED 90° BEND.

WATER METER/BACKFLOW PREVENTER ASSEMBLY DOMESTIC SERVICE (COMMERCIAL)
(N.T.S.)

FPUA COMMUNITY PROUD	WATER METER/BACKFLOW PREVENTER ASSEMBLY–DOMESTIC SERVICES (METER SIZE 2" OR LESS)	W–8
FT. PIERCE UTILITIES AUTHORITY WATER/WASTEWATER ENGINEERING 1701 SOUTH 25TH STREET FT. PIERCE, FLORIDA 34947 772-466-1600	03–09 DESIGN SLL JLC DATE: REVISION: BY: APP'D: DESIGNED: COMPUTER FILE # JLC WATER DETAILS 2006Q2.DWG DRAWN BY: SCALE: SLL N.T.S. APPROVED: DATE: JLC 2010	WATER/WASTEWATER ENGINEERING FT. PIERCE UTILITIES AUTHORITY SHEET 1 OF 1

MARK	REVISION	DATE

DRAWING 21–032 CONST
DESIGNED JBB DRAWN JBB
CHECKED JBB SCALE N.T.S. DATE 04/30/21

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SCHULKE, BITTLE & STODDARD, L.L.C.
CIVIL & STRUCTURAL ENGINEERING LAND PLANNING . ENVIRONMENTAL PERMITTING
CERTIFICATION OF AUTHORIZATION NO.: 00008668
1717 INDIAN RIVER BLVD., SUITE 201 VERO BEACH, FLORIDA 32960
TEL 772-770-9622 FAX 772-770-9496 EMAIL jbittle@sbsengineers.com
WEBSITE https://www.sbsengineers.com

MISCELLANEOUS DETAILS

OCEAN VILLAGE CLUBHOUSE

ENGINEER CERTIFICATION

JODAH B. BITTLE LICENSE No 57396 STATE OF FLORIDA PROFESSIONAL ENGINEER

JODAH B. BITTLE
FL REG. NO. 57396 Jodah Bittle
DATE: 5/26/2021

PROJECT NO. 21–032 | SHEET 11

DocuSign Envelope ID: 98C90119-4662-489F-9CCD-1262482FE037



MARK	REVISION	DATE

DRAWING 21-032 CONST

DESIGNED JBB | DRAWN JBB

CHECKED JBB | DATE 04/30/21

SCALE 1"=20'

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TEL 772-770-9622 FAX 772-770-9496 EMAIL jbittle@sbsengineers.com
WEBSITE https://www.sbsengineers.com

AERIAL

OCEAN VILLAGE CLUBHOUSE

ENGINEER CERTIFICATION

JODAH B. BITTLE LICENSE No 57396 STATE OF FLORIDA PROFESSIONAL ENGINEER

JODAH B. BITTLE
FL. REG. NO. 57396

DATE: 5/26/2021

PROJECT NO.	SHEET
21-032	12



FLOOR PLAN

SCALE: 3/16" = 1'-0"

1 / A-1.11

NORTH

APPROXIMATE A/C SQUARE FOOTAGE: 6,425 S.F.

NOTE:
THIS PLAN PRELIMINARY IN NATURE AND IS SUBJECT TO CHANGE FROM NORMAL REVIEW FROM MUNICPAL ADJACENCIES AND DEVELOPMENT PROCESSES.

WALL TYPE LEGEND

SYMBOL	DESCRIPTION
	NEW, 8" CMU WALL WITH FILLED CELLS AND REINFORCING. 1 ½" METAL FURRING STRIPS @ 16" O.C. MAX. SPACING WITH R-4.5 MIN. RIGID INSULATION BOARD AND 5/8" GYP. BD. TO MATCH EXISTING, ADJACENT WALL SURFACE
	NEW 3 5/8" METAL STUD WALL WITH 5/8" GYPSUM BOARD SHEATING, BOTH SIDES OF WALL AND SOUND ATTENUATING INSULATION BETWEEN STUDS. MATCH EXISTING, ADJACENT WALL SURFACES.

It is the law of the architect of engineer's licensing, the plans and specifications prepared by the architect or engineer and the application thereto comply with the laws governing the licensure of the architect or engineer and the Florida Building Code and Chapter 553, Florida Statutes.

Official Issue: Site Plan Submittal 5/25/2021.

Issue Description:	Date:
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	

Seal:

STATE OF FLORIDA
REGISTERED
BRENT A. WOOD
ARCHITECT
MAY 25 2021

05-25-2021 SITE PLAN SUBMITTAL - NOT FOR CONSTRUCTION

Architect:
BRENT A. WOOD
ARCHITECTURE LLC
BRENT A. WOOD, NCARB, AR94198
20 SE Ocean Boulevard, Stuart, FL, 34994
Tel. 772.220.1217 Fax 772.419.9261

Client:
OCEAN VILLAGE CLUB
C/O: MICHAEL SICKENIUS
89 SOUTHSTAR DRIVE
FT. PIERCE, FLORIDA 34949

Project Name:
OCEAN VILLAGE CLUB
COMMUNITY CENTER
2400 SOUTH OCEAN DRIVE
FT. PIERCE, FLORIDA 34949

Drawing Name:
FLOOR PLAN

Sheet Number:
A-1.11

Project Number: 2170/13
Plot Date: 05-25-2021
© 2021 Brent A. Wood

Tree/Palm Symbol Legend

- EX. TREE/PALM TO REMAIN
- EX. TREE/PALM TO REMOVE
- EX. TREE/PALM TO RELOCATE SEE LANDSCAPE PLAN FOR NEW LOCATION(S)

EXISTING TREE DISPOSITION

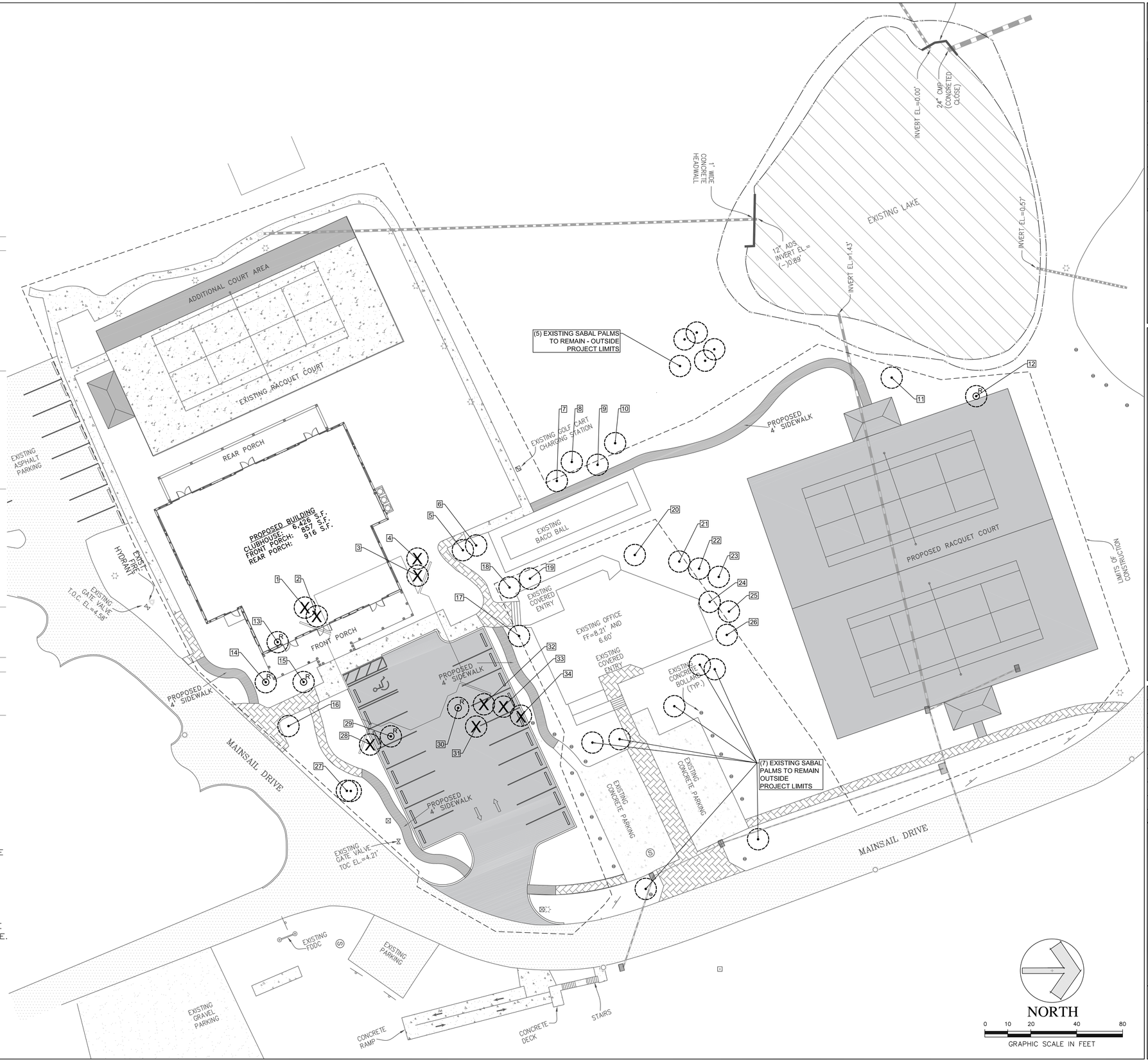
NO.		BOTANICAL NAME	COMMON NAME	DBH	CONDITION	ACTION
1	*	SABAL PALMETTO	CABBAGE PALM	12–15"	VERY POOR	REMOVE
2	*	SABAL PALMETTO	CABBAGE PALM	12–15"	POOR	REMOVE
3	*	SABAL PALMETTO	CABBAGE PALM	12–15"	POOR	REMOVE
4	*	SABAL PALMETTO	CABBAGE PALM	12–15"	VERY POOR	REMOVE
5	*	SABAL PALMETTO	CABBAGE PALM	12–15"	FAIR	REMAIN
6	*	SABAL PALMETTO	CABBAGE PALM	12–15"	FAIR	REMAIN
7	*	SABAL PALMETTO	CABBAGE PALM	12–15"	GOOD	REMAIN
8	*	SABAL PALMETTO	CABBAGE PALM	12–15"	FAIR	REMAIN
9	*	SABAL PALMETTO	CABBAGE PALM	12–15"	GOOD	REMAIN
10	*	SABAL PALMETTO	CABBAGE PALM	12–15"	GOOD	REMAIN
11	*	SABAL PALMETTO	CABBAGE PALM	12–15"	FAIR	REMAIN
12	*	SABAL PALMETTO	CABBAGE PALM	12–15"	FAIR	RELOCATE
13	*	SABAL PALMETTO	CABBAGE PALM	12–15"	FAIR	RELOCATE
14	*	SABAL PALMETTO	CABBAGE PALM	12–15"	FAIR	RELOCATE
15	*	SABAL PALMETTO	CABBAGE PALM	12–15"	FAIR	RELOCATE
16	*	SABAL PALMETTO	CABBAGE PALM	12–15"	FAIR	REMAIN
17	*	SABAL PALMETTO	CABBAGE PALM	12–15"	FAIR	REMAIN
18	*	SABAL PALMETTO	CABBAGE PALM	12–15"	GOOD	REMAIN
19	*	SABAL PALMETTO	CABBAGE PALM	12–15"	FAIR	REMAIN
20	*	SABAL PALMETTO	CABBAGE PALM	12–15"	GOOD	REMAIN
21	*	SABAL PALMETTO	CABBAGE PALM	12–15"	GOOD	REMAIN
22	*	SABAL PALMETTO	CABBAGE PALM	12–15"	FAIR	REMAIN
23	*	SABAL PALMETTO	CABBAGE PALM	12–15"	FAIR	REMAIN
24	*	SABAL PALMETTO	CABBAGE PALM	12–15"	FAIR	REMAIN
25	*	SABAL PALMETTO	CABBAGE PALM	12–15"	GOOD	REMAIN
26	*	SABAL PALMETTO	CABBAGE PALM	12–15"	FAIR	REMAIN
27	*	SABAL PALMETTO	CABBAGE PALM	12–15"	POOR–DBL TRNK	REMAIN
28	*	SABAL PALMETTO	CABBAGE PALM	12–15"	POOR	REMOVE
29		VETCHIA MERRILLI	CHRISTMAS PALM	14–16' HT	GOOD–TRP TRNK	RELOCATE
30		VETCHIA MERRILLI	CHRISTMAS PALM	14–16' HT	GOOD–TRP TRNK	RELOCATE
31	*	SABAL PALMETTO	CABBAGE PALM	12–15"	VERY POOR	REMOVE
32	*	SABAL PALMETTO	CABBAGE PALM	12–15"	VERY POOR	REMOVE
33	*	SABAL PALMETTO	CABBAGE PALM	12–15"	VERY POOR	REMOVE
34	*	SABAL PALMETTO	CABBAGE PALM	12–15"	POOR	REMOVE

* INDICATES NATIVE SPECIES

PALMS TO BE REMOVED ARE VERY MATURE AND IN POOR TO VERY POOR CONDITION WITH TRUNK CONSTRICTION AND TRUNK DAMAGE – NOT RELOCATEABLE
(9) PALMS TO BE REMOVED AND MITIGATED/REPLACED AT 1:1 BASIS REPLACEMENT

Tree/Palm Protection

1. DURING CONSTRUCTION, PROTECTIVE BARRIERS SHALL BE PLACED BY THE SITE CONTRACTOR TO PREVENT DESTRUCTION OF TREES/PALMS DESIGNATED TO REMAIN. PROTECTION BARRIERS SHALL BE ERECTED PRIOR TO CONSTRUCTION OF ANY KIND ON SITE.
2. BARRIERS SHALL CONSIST OF PROTECTIVE POSTS TWO(2) INCHES BY(4) FOUR INCHES OR LARGER, WOODEN POSTS PLANTED IN SUFFICIENT DEPTH TO BE STABLE WITH AT LEAST FOUR (4) FEET OF POST VISIBLE ABOVE THE GROUND. POSTS SHALL BE PLACED EITHER A MINIMUM OF FIVE(5) FEET FROM THE TRUNK, UNLESS PROPOSED PAVING CONSTRUCTION WILL NOT PERMIT, OR IN LINE WITH THE TREE'S DRIP LINE. POSTS SHALL BE NO FURTHER THAN 6 FEET APART. REFER TO DETAIL. EACH SECTION SHALL BE LINKED TOGETHER WITH LUMBER, EROSION FABRIC, NET OR PLASTIC FENCE MATERIAL. ORANGE PLASTIC CONSTRUCTION FENCE AND METAL T–STAKES ARE ACCEPTABLE.
3. PROPOSED GRADES AROUND TREES/PALMS TO REMAIN SHALL BE MAINTAINED TO WITHIN (4) FOUR INCHES OF THE EXISTING GRADE.
4. THE CONTRACTOR SHALL FOLLOW TREE/PALM REMOVAL, TREE PROTECTION AND GENERAL PLANTING REQUIREMENTS AS DEFINED BY LOCAL JURISDICTION.
5. PROTECTIVE BARRIERS SHALL REMAIN IN PLACE AND INTACT UNTIL SUCH TIME AS CONSTRUCTION IS COMPLETE AND ALL EQUIPMENT IS REMOVED FROM SITE.
6. NO BUILDING MATERIAL SUCH AS MACHINERY OR TEMPORARY SOIL DEPOSITS SHALL BE PLACED WITHIN THE TREE/PALM CANOPY AREA.



SWALLOWTAIL ENTERPRISES
2036 Magnolia Ln
Vero Beach, FL 32963
PH 772.360.7132
sjkross@aol.com

DATE: 5/21/2021

SHEET: Tree Disposition Plan

DESIGNED BY: SJK

Checked BY: TW

SCALE: As Shown

SEAL:

REGISTERED LANDSCAPE ARCHITECT · THOMAS L. WHITE · LA-0001100 · STATE OF FLORIDA

Thomas L. White
ASLA #1100
ISA #FL-5248A

OCEAN VILLAGE CLUBHOUSE

Fort Pierce
St. Lucie County, FL

REVISIONS

TREE DISPOSITION PLAN

SHEET

TD-1

LANDSCAPE CODE TABLE

PERIMETER LANDSCAPE	REQUIRED	PROVIDED
NOT APPLICABLE THIS PROJECT SITE INTERIOR MODIFICATION	N/A	N/A
LANDSCAPE ADJACENT TO ROAD R.O.W.	**REQUIRED**	**PROVIDED**
NOT APPLICABLE THIS PROJECT SITE INTERIOR MODIFICATION – NO R.O.W.	N/A	N/A
PARKING AREA INTERIOR	**REQUIRED**	**PROVIDED**
1 SHADE TREE PER ISLAND	3	3
INTERIOR V.U.A. LANDSCAPING	**REQUIRED**	**PROVIDED**
V.U.A. = 6,860 SF / 18 382 SF / 180 SF	382 SF 2.1 TREES	1,068 SF 3 TREES
TREE MITIGATION	**REQUIRED**	**PROVIDED**
(0) TOTAL TREES REMOVED	0	0
(9) TOTAL PALMS REMOVED	9	9
(9) REPLACEMENT (MITIGATION) PALMS PROVIDED ON SITE ABOVE REQUIRED TREES – NO ADDITIONAL MITIGATION REQUIRED		

XERISCAPE REQUIREMENTS	PTS
LOW, MEDIUM, & HIGH WATER USAGE INDICATED ON PLAN	5
51% OR MORE GRASS AREAS DROUGHT TOLERANT SPECIES	10
51% OR MORE OF REQ. SHRUBS DROUGHT TOLERANT SPECIES	10
51% OR MORE OF REQ. TREES DROUGHT TOLERANT SPECIES	10
MIN. 3" DEPTH COMPACTED MULCH	10
UTILIZATION OF NON–CYPRESS MULCH	5
TOTAL POINTS	50

LANDSCAPE NOTES

1. ALL Landscape material to be FL #1 or better
2. Floratam sod all areas disturbed by construction
3. Non-cypress mulch required to 3" depth in all plant beds
4. ALL prohibited species shall be removed from project area prior to issuance of Certificate of Occupancy
5. Plan meets FDOT sight distance & clear zone requirements
6. All ground equipment to be screened with shrubs
7. NO landscaping to be planted within 10' of a fire hydrant

PLANT LIST – TREES & PALMS

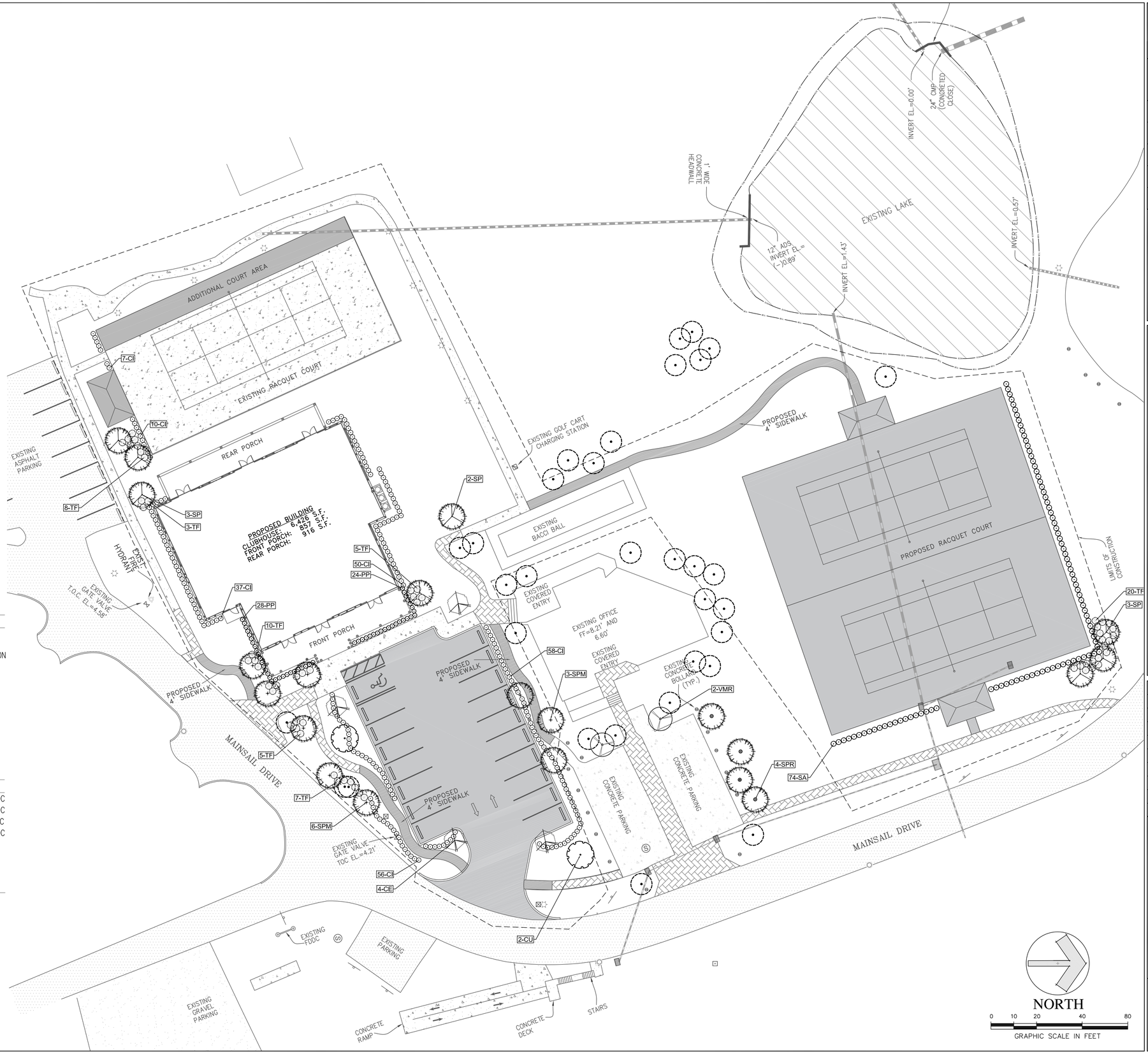
QTY.	KEY		DRT	BOTANICAL NAME	COMMON NAME	SPEC.
4	SPR	*	H	SABAL PALMETTO	CABBAGE PALM	RELOCATED
2	VMR		M	VETCHIA MERRILLI	CHRISTMAS PALM	RELOCATED
9	SPM	*	H	SABAL PALMETTO	CABBAGE PALM	16–22' HT MITIGATION
8	SP	*	H	SABAL PALMETTO	CABBAGE PALM	16–22' HT
2	CU	*	H	COCCOLOBA UNIFERA	SEAGRAPE TREE	12–14' HT 3" CAL.
4	CE	*	M	CONOCARPUS ERECTUS	GREEN BUTTONWOOD	12' HT 2.5" CAL.

PLANT LIST – ACCENTS / SHRUBS / GROUNDCOVERS

QTY.	KEY		DRT	BOTANICAL NAME	COMMON NAME	SPEC.
218	CI	*	H	CHRYSABALANUS ICACACO	RED COCOPLUM	24" HT – 2' OC
58	TF	*	H	TRIPSACUM FLORIDANA	FL GAMMA GRASS	24" HT – 3' OC
52	PP		M	PODOCARPUS 'PRINGLES'	DWARF PODOCARPUS	18" HT – 2' OC
74	SA		H	SCHEFFLERA ARBORICOLA	GREEN ARBORICOLA	24" HT – 2' OC

* INDICATES NATIVE SPECIES

ALL SOD AREAS TO BE ST. AUGUSTINE 'FLORATAM' – SOLID SOD



SWALLOWTAIL ENTERPRISES
2036 Magnolia Ln
Vero Beach, FL 32963
PH 772.360.7132
sjkross@aol.com

DATE: 5/21/2021

SHEET: Landscape Plan

DESIGNED BY: SJK

Checked BY: TW

SCALE: As Shown

SEAL:



Thomas L. White
ASLA #1100
ISA #FL-5248A

OCEAN VILLAGE CLUBHOUSE

Fort Pierce
St. Lucie County, FL

REVISIONS

LANDSCAPE PLAN

SHEET

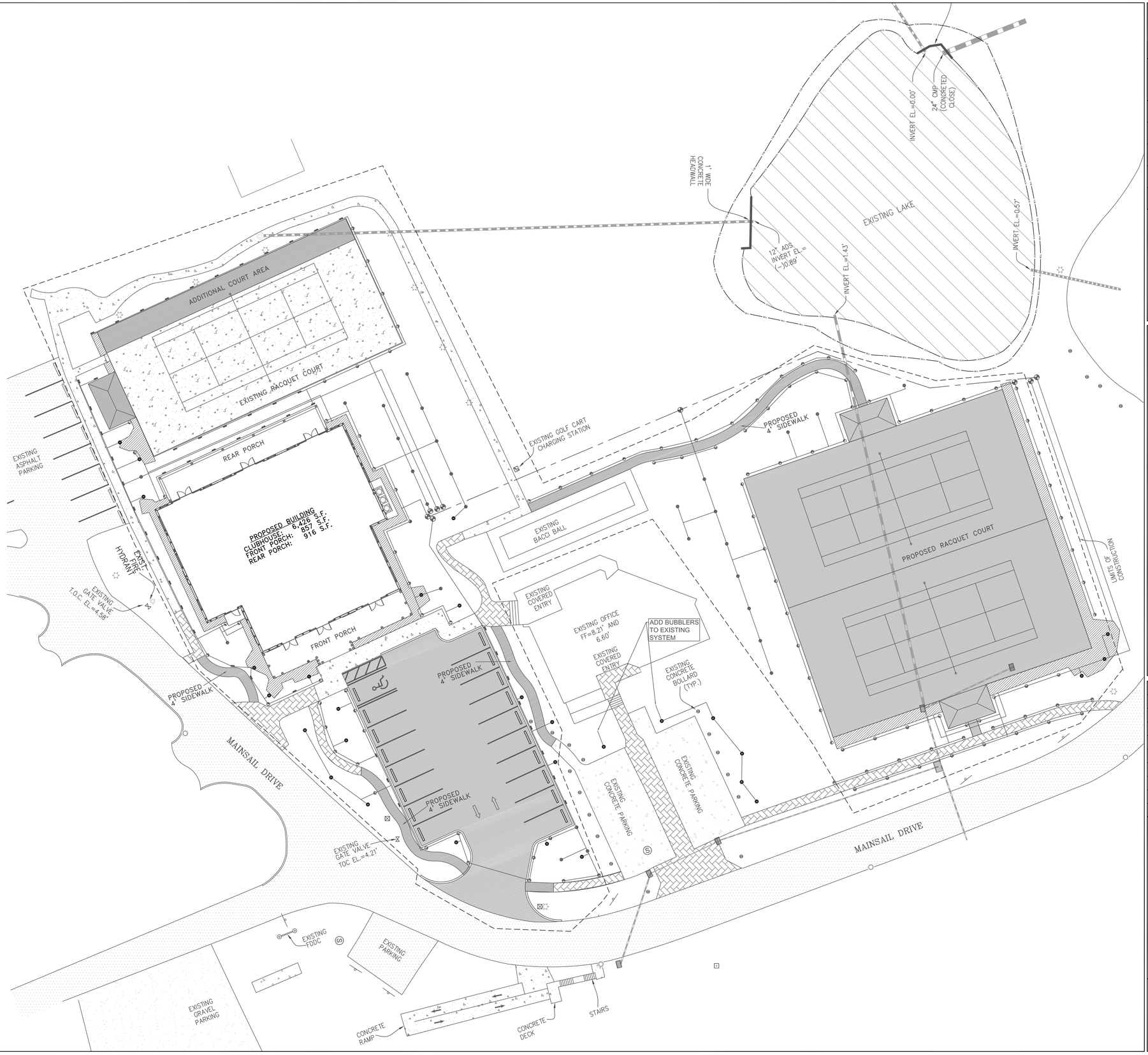
L-1

IRRIGATION LEGEND

SYM	DESCRIPTION
P	
M	
POC	WATER SOURCE: EXISTING SYSTEM
C	RAINBIRD ESP CONTROLLER - OR EQUIV. HUNTER
X / X X	VALVE NUMBER MAX. APPROXIMATE GALLONS PER MINUTE SIZE OF VALVE
	2" RAINBIRD VALVE WITH AN AMETEK VALVE BOX
	RAINBIRD SIDESTRIP HEAD
	RAINBIRD ENDSTRIP HEAD
	FLOOD BUBBLER HEADS
	HALF HEADS
	QTR HEADS
	WHOLE HEADS
	3 QTR HEADS
	HUNTER 5000 SERIES ROTARY HEAD W/ 3 QTR SPRAY
	HUNTER 5000 SERIES ROTARY HEAD W/ HALF SPRAY
	HUNTER 5000 SERIES ROTARY HEAD W/ 1 QTR SPRAY
	HUNTER 5000 SERIES ROTARY HEAD W/ FULL SPRAY
	ADJUSTABLE PATTERN NOZZLES MAY BE USED AS REQUIRED
	SHRUB/ BUBBLER ZONES SEPARATE FROM TURF ZONES
	DRIPLINE AREAS

IRRIGATION NOTES

1. Fully automatic system to provide 100% coverage
2. Install bubblers on all trees = low water usage
3. Install drip line on all shrub beds (excluding single hedge rows covered by other zones) = low water usage
4. Use low trajectory nozzles on sod areas = moderate water usage
5. Sod areas to be on separate zone(s) from tree bubbler and shrub bed dripline zones
6. Rain sensor shut-off to be installed / operational
7. Water source - existing system to be modified
8. Main line & valve location shown for graphic clarity - actual location to be field verified
9. Contractor to modify existing system as necessary to maintain operation of system in areas outside project limits during construction
10. Valve locations and zone sizes to be adjusted based on actual existing water supply main line size, gpm volume, and system psi available.



SWALLOWTAIL ENTERPRISES
2036 Magnolia Ln
Vero Beach, FL 32963
PH 772.360.7132
sjkross@aol.com

DATE: 5/21/2021

SHEET: Irrigation Plan

DESIGNED BY: SJK

Checked BY: TW

SCALE: As Shown

SEAL:

REGISTERED LANDSCAPE ARCHITECT THOMAS L. WHITE LA 0001100 STATE OF FLORIDA

Thomas L. White
ASLA #1100
ISA #FL-5248A

OCEAN VILLAGE CLUBHOUSE

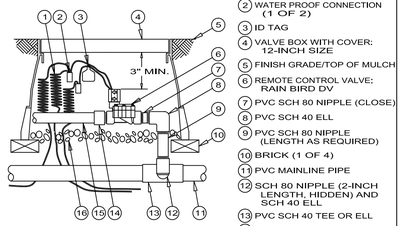
Fort Pierce
St. Lucie County, FL

REVISIONS

IRRIGATION PLAN

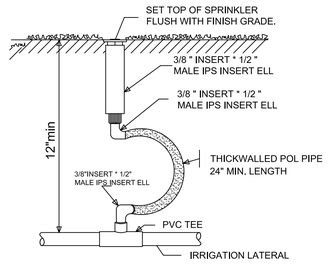
SHEET
L-2

IRRIGATION DETAILS

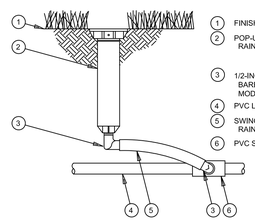


1. 30-INCH LINEAR LENGTH OF WIRE, COILED
2. WATER PROOF CONNECTION (1 OF 2)
3. ID TAG
4. VALVE BOX WITH COVER: 12-INCH SIZE
5. FINISH GRADE/TOP OF MULCH
6. REMOTE CONTROL VALVE: RAIN BIRD DV
7. PVC SCH 80 NIPPLE (CLOSE)
8. PVC SCH 40 ELL
9. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
10. BRICK (1 OF 4)
11. PVC MAINLINE PIPE
12. SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
13. PVC SCH 40 TEE OR ELL
14. PVC SCH 40 MALE ADAPTER
15. PVC LATERAL PIPE
16. 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

REMOTE CONTROL VALVE

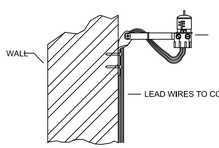


ROTOR HEAD



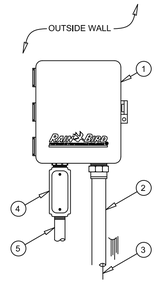
1. FINISH GRADE/TOP OF MULCH
2. POP-UP SPRAY SPRINKLER: RAIN BIRD 1804
3. 1/2-INCH MALE NPT x .490 INCH BARB ELBOW: RAIN BIRD MODEL SBE-050
4. PVC LATERAL PIPE
5. SWING PIPE, 12-INCH LENGTH: RAIN BIRD MODEL SP-100
6. PVC SCH 40 TEE OR ELL

4"/6"/12" POP-UP SPRAY HEAD



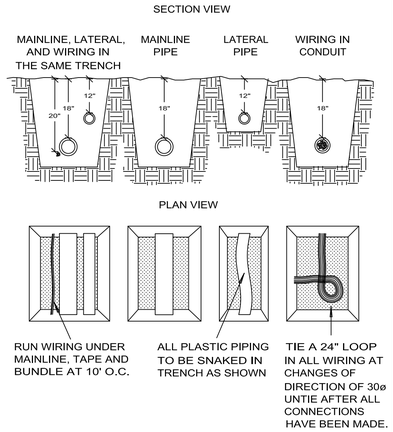
NOTE:
MOUNT MINI-CLIK ON ANY SURFACE WHERE IT WILL BE EXPOSED TO UNOBSTRUCTED RAINFALL, BUT NOT IN THE PATH OF SPRINKLER SPRAY.

MINI CLICK RAIN SENSOR



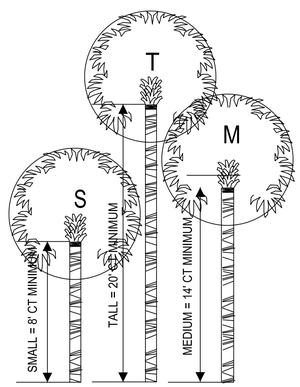
1. HYBRID CONTROLLER: RAIN BIRD ESP-I SERIES OUTDOOR WALL MOUNT (OR APPROVED EQUAL)
2. 1.5-INCH PVC SCH 40 CONDUIT AND FITTINGS
3. WIRES TO REMOTE CONTROL VALVES
4. JUNCTION BOX
5. 1-INCH PVC SCH 40 CONDUIT TO POWER SUPPLY

IRRIGATION CONTROLLER



NOTE:
SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH SCHEDULE 40 PVC 2 TIMES THE DIAMETER OF THE PIPE WITHIN.

PIPE & WIRE TRENCHING



PALMS TO BE INFORMALLY GROUPED IN STAGGERED SIZES AS SHOWN AND AS INDICATED ON PLANS.

PALMS ARE GENERALLY SPECIFIED BY OVERALL HEAIGHT AND WITH A CLEAR TRUNK DIMENSION. ALL CLEAR TRUNK DIMENSIONS FOR BOTH SABAL PALMS AND FOR ALL WASHINGTONIA PALMS ARE A MEASURE OF THE WOOD TRUNK LENGTH AT PLANTING UP TO THE BASE OF THE BOOTED FRONDS.

PALMS FROND TOPS MAY BE PENCIL CUT OR FRONDS MAY BE TRIMMED AND BOUND, AT THE DISCRETION OF THE CONTRACTOR AS REQUIRED TO INSURE THE HEALTH OF THE TREE.

OVERALL HEIGHT FOR PENCIL CUT PALMS, IS THE HEIGHT FROM THE BALL TO THE PENCIL TIP.

OVERALL HEIGHT FOR BOUND UP FRONDS IS MEASURED FROM THE BALL TO THE TOP OF THE BUD.

TYPICAL STAGGERED HEIGHT PALMS
N.T.S.

IRRIGATION SPECIFICATIONS

Piping:

Main Lines: Schedule 40 PVC, Solvent Weld.
Allow all main lines to cure for 24 hours before pressuring.

Lateral Lines: PVC; 1/2 in. is not used. Min. pipe is 3/4 in.
Lateral lines to be class 160 PVC
(Pipe locations drawn for clarity. Contractor to determine proper locations and make necessary field adjustments.)

Sleeves:

Irrigation System to be installed in compliance with the Florida building code, Appendix F requirements and regulations.

Fittings: SCH 40 PVC

Fabrication: To manufacturers specifications.
Use blue or clear PVC cement, square cut, clean and prime all joints.
All pipe, fittings, and solvents to conform to latest ASTM specs.

Depth of Lines: Main Line and wiring = 18 in. depth, min.
Lateral Line = 12 in. depth, min.
Sleeving under pavement = 24 in. depth, min.
Suction Line (if required) = 24 in. depth, nominal.

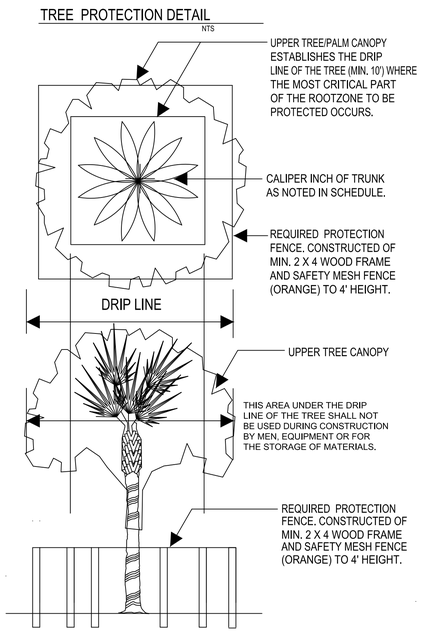
Control Wires: AWG 14 for all hot wires and AWG 12 for common.
Solid copper type UF UL listed for direct burial.
Run wires under main and tape every 20 feet.
Run spares, two min.
Splice wires only in a valve box. All splices shall be moisture proof using snap tite or DBY UL connectors.
Common shall be white, hot shall be red or color coded.
Spare shall be other color not specified.

Backfill all trenches free of debris, compact to original density, flush all lines, use screens in all heads, adjust for proper coverage avoiding excess water on walls, walks, etc.

All details are graphically shown only. All quantities shall be verified by the contractor prior to installation. It shall be the contractor's responsibility assure complete overlapping coverage. Any discrepancies shall be reported to the owner and landscape architect before proceeding. Codes and local regulations shall take precedence over the plans, it is the contractors responsibility to comply. The landscape architect reserves the right to make minor field changes, the contractor may field adjust spray nozzle selection to provide for proper 100% coverage and avoid overspray. Provide owner with an accurate as installed plan(s) at completion showing main lines, wiring, valves, crossings, etc. using dimensions from fixed datums.

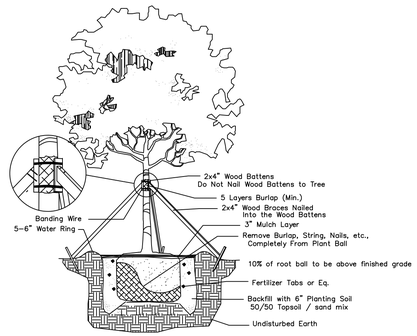
Contractor shall verify all underground utilities prior to commencement of work.

TREE PROTECTION DETAIL
NTS

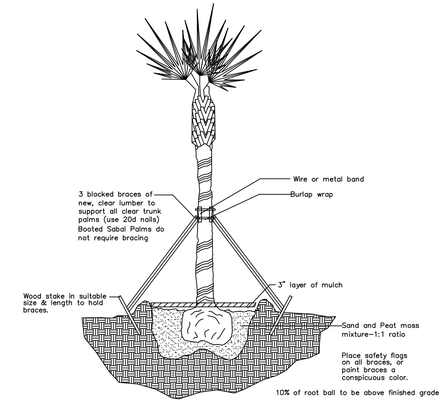


GENERAL LANDSCAPE NOTES:

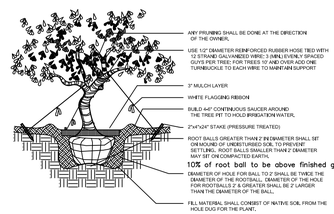
1. All plants will be FLA #1 or better as described in GRADES AND STANDARDS FOR NURSERY PLANTS, latest editions as published by The Florida Department of Agriculture and Consumer Services.
2. All plant material will receive mulch approved by the Landscape Architect and which complies with all applicable land development, zoning and building codes. Depth of mulch will be 3" at time of inspection maintaining min. 36" ring around tree, 6" clear radially from tree trunks.
3. All trees and palms will be staked according to the details shown. Staking requirements will be strictly enforced. All trees will be plumb in all directions at time of inspection.
4. All plantings will be covered by an underground irrigation system that provides 100% coverage with 50% overlap and includes a rain sensor automatic shut-off, such as the "MiniClik II" or approved equal, installed per the manufacturer's specifications. Irrigation components are interchangeable with purple I.D. components for future connection to reclaimed water. The irrigation system will comply with all applicable land development and building codes. Water source will be rust free OR the Contractor will provide an in-line rust inhibitor filter. No overspray on paving.
5. Backfill mix will be as noted on the planting details and will be free of all debris and stones over 1" diameter. Native sand or sandy soil may be used for backfilling palms only.
6. The Contractor will sod with St. Augustine 'Floritam' all open areas inside and adjacent to the property that does not receive plant material, or is not otherwise specified. Provide sod to all damaged areas, to edge of pavement inside and adjacent to the property and to the edge of water at all water bodies. All sod seams will be butt joints with adjacent rows staggered and all edge pieces will abut tightly, leaving no gaps. All sodded areas will receive min. of 2" top soil, fine graded.
7. No substitutions may be made without the written approval of the Landscape Architect the Owner and the City.
8. Planting plan takes precedence over the plant list. The plant list and quantities contained therein are for the convenience of the Contractor only.
9. The Contractor will warrant in writing all plant material for 365 days after final inspection and acceptance by the owner. Contractor may petition the owner to accept the work in substantial and reasonable sections on large projects. Written warrantee will be provided at the time of final inspection.
10. The Landscape Contractor is responsible for any damage to underground work which is properly marked or for which he has not obtained proper marking through the one call system, local utility departments, or from the General Contractor.
11. Any existing trees noted to remain shall be protected from damage. See Tree Plans.



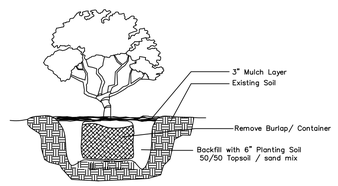
Large Tree Planting Detail
Not to Scale



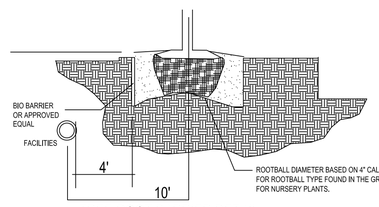
Palm Planting Detail
Not to Scale



Irregular and Multi-Stem Tree
Not to Scale



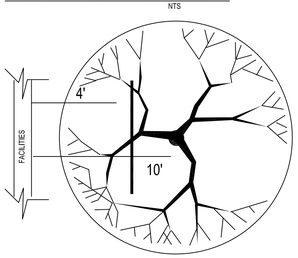
Shrub Planting Detail
Not to Scale



TREE ROOT BARRIER DETAIL
NTS

NOTE: CONTRACTOR SHALL FOLLOW MANUFACTURER'S DETAILED INSTRUCTIONS FOR ACTUAL INSTALLATION PROCEDURES

TREE ROOT BIO BARRIER PLAN
NTS



ROOT BARRIERS SHALL BE A BIOBARRIER ROOT CONTROL SYSTEM OR APPROVED EQUAL. ALL ROOT BARRIERS SHALL BE INSTALLED TO A MIN. DEPTH OF 36" AND IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. ROOT BARRIERS SHALL BE INSTALLED A MINIMUM OF 4 FEET FROM THE AUTHORITY'S FACILITIES.

SWALLOWTAIL ENTERPRISES
2036 Magnolia Ln
Vero Beach, FL 32963
PH 772.360.7132
sjkross@aol.com

DATE: 5/21/2021

SHEET: NOTES - DETAILS

DESIGNED BY: SJK

Checked BY: TW

SCALE: As Shown

SEAL:

REGISTERED LANDSCAPE ARCHITECT THOMAS L. WHITE LA 0001100 STATE OF FLORIDA

Thomas L. White
ASLA #1100
ISA #FL-5248A

OCEAN VILLAGE CLUBHOUSE

Fort Pierce
St. Lucie County, FL

REVISIONS

NOTES - DETAILS

SHEET
L-3



OCEAN VILLAGE
LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLT	LAMP COLOR	LUMENS	LAMP TYPE	DIM TYPE	WATTS	MOUNTING	NOTES
SA	LED AMBER SITE LUMINAIRE	MCGRAW EDISON	GLEON-SAOA-AMB-U-SL4-FINISH / MA1036-XX	UNV	AMBER	9638	LED	0-10V (If required)	199W	25 'POLE	NOTE 1, 2
SB	LED SITE LUMINAIRE	MCGRAW EDISON	GLEON-SAOC-740-U-T4FT-FINISH / MA1036-XX	UNV	LED	70430	LED	0-10V (If required)	558W	18 'POLE	NOTE 1, 3
SC	24" LED AMBER BOLLARD	LIGMAN	UMC-10002-31W-T3-AMBER-FINISH-120/277v	UNV	AMBER	995	LED	NONE	31W	GROUND	NOTE 1

FIXTURE SCHEDULE NOTES

NOTE 1: CONFIRM FINISH

NOTE 2: FIXTURES MOUNTED ON 25' VALMONT ALUMINUM POLE R-240845806T4-P2-COOPER FINISH

NOTE 3: FIXTURES MOUNTED ON 18' VALMONT ALUMINUM POLE R-170840606T4-P2-COOPER FINISH

FOR QUESTIONS PERTAINING TO THIS FIXTURE SCHEDULE PLEASE CONTACT RYAN HUFF @ LIGHTING DYNAMICS- 772-285-7169

Photometrics Calculation Software Generated Luminaire Schedule

Symbol	Qty	Label	Arrangement	Lum. Lumens	Arr. Lum. Lumens	LLF	Lum. Watts	Arr. Watts
	4	SA	SINGLE	9638	9638	0.900	198.9	198.9
	12	SB	SINGLE	70430	70430	0.900	558	558
	20	SC	SINGLE	995	995	0.900	24	24

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
PARKING LOT	Illuminance	Fc	2.60	3.2	1.7	1.53	1.88
PATHWAY 1	Illuminance	Fc	9.01	94.3	0.3	30.03	314.33
PATHWAY 2	Illuminance	Fc	4.36	87.7	0.2	21.80	438.50
PATHWAY 3	Illuminance	Fc	7.39	87.0	0.9	8.21	96.67
PATHWAY 4	Illuminance	Fc	9.70	92.4	0.2	48.50	462.00
RAQUET COURTS @ 3' AFG	Illuminance	Fc	37.35	66.0	19.6	1.91	3.37

LIGHTING DYNAMICS INCORPORATED

Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine applicability of the layout to existing or future field conditions. This lighting pattern represents illumination levels calculated from laboratory data taken under controlled conditions utilizing current industry standard lamp ratings in accordance with Illuminating Engineering Society approved methods. Actual performance of any manufacturer's luminaire may vary due to variation in electrical voltage, tolerance in lamps and other variable field conditions.

NOTES:

No.	Revision/Issue	Date
2	PHOTOMETRIC STUDY	05/24/21
1	PHOTOMETRIC STUDY	05/20/21

LIGHTING DYNAMICS, INC.
7835 West Commercial Blvd.
Tamarac, FL 33351
(954) 944-0286
www.lightingdynamics.com

Project Name and Address

Ocean Village
Site - Normal Mode
Fort Pierce, FL

FILE P:\PROJECTS\2021\MAY

CLIENT PROCTOR C.C.

Project: Ocean Village - Site

Date: 05/24/21

Scale: 1/16" = 1'

Sheet: L1

DRAWN BY: MR / MM



VIEW LOOKING WEST
SCALE: N.T.S.
1
A-2.02



ENTRY VIEW
SCALE: N.T.S.
2
A-2.02



VIEW LOOKING NORTH WEST
SCALE: N.T.S.
3
A-2.02



VIEW LOOKING NORTH EAST
SCALE: N.T.S.
4
A-2.02



VIEW LOOKING EAST
SCALE: N.T.S.
5
A-2.02



VIEW LOOKING SOUTH EAST
SCALE: N.T.S.
6
A-2.02

05-25-2021 SITE PLAN SUBMITTAL - NOT FOR CONSTRUCTION

Official Issue: Site Plan Submittal 5/25/2021

Issue Description:	Date:
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	

Seal:

STATE OF FLORIDA
BRENT A. WOOD
AR94196
07-02-2021
REGISTERED ARCHITECT

Architect:
BRENT A. WOOD
ARCHITECTURE LLC
BRENT A. WOOD, NCARB, AR94198
20 SE Ocean Boulevard, Stuart, FL 34994
Tel: 772.220.1217 Fax: 772.419.5061

Client:
OCEAN VILLAGE CLUB
C/O: MICHAEL SICKENIUS
80 SOUTHSTAR DRIVE
FT. PIERCE, FLORIDA 34949

Project Name:
OCEAN VILLAGE CLUB
COMMUNITY CENTER
2400 SOUTH OCEAN DRIVE
FT. PIERCE, FLORIDA 34949

Drawing Name:
PERSPECTIVE VIGNETTES

Sheet Number:
A-2.02

Project Number: 217013
Plot Date: 05-25-2021
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NORTH BUILDING ELEVATION (A / A-2.01)
SCALE: 1/8" = 1'-0"



EAST BUILDING ELEVATION (B / A-2.01)
SCALE: 1/8" = 1'-0"



SOUTH BUILDING ELEVATION (C / A-2.01)
SCALE: 1/8" = 1'-0"



WEST BUILDING ELEVATION (D / A-2.01)
SCALE: 1/8" = 1'-0"

05-25-2021 SITE PLAN SUBMITTAL - NOT FOR CONSTRUCTION

Official Issue: Site Plan Submittal 5/25/2021

Issue Description:	Date:
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	

Seal: STATE OF FLORIDA BRENT A. WOOD AR94196 07-02-2021 REGISTERED ARCHITECT

Architect:
BRENT A. WOOD
ARCHITECTURE LLC
BRENT A. WOOD, NCARB, AR94198
20 SE Ocean Boulevard, Stuart, FL 34994
Tel: 772.220.1217 Fax: 772.419.5061

Client:
OCEAN VILLAGE CLUB
C/O: MICHAEL SICKENIUS
80 SOUTHSTAR DRIVE
FT. PIERCE, FLORIDA 34949

Project Name:
OCEAN VILLAGE CLUB
COMMUNITY CENTER
2400 SOUTH OCEAN DRIVE
FT. PIERCE, FLORIDA 34949

Drawing Name:
BUILDING ELEVATIONS

Sheet Number:
A-2.01

Project Number: 217013
Plot Date: 05-25-2021
© 2021 Brent A. Wood

Ecological Consulting of Florida

850 NW Federal Highway
Suite 109
Stuart, FL 34994

Office: 772-220-7817

May 24, 2021

Mr. Jodah Bittle, PE
Schulke, Bittle & Stoddard, LLC
1717 Indian River Boulevard, Suite 201
Vero Beach, FL 32960

RE: Ocean Village Improvements – Preliminary Environmental Assessment
St. Lucie County, Florida

Dear Mr. Bittle,

This letter is to provide documentation of the site inspection conducted on May 21, 2021. Provided are my findings with regards to the natural resources at the project site.

The subject property is a partially developed property within the Ocean Village residential community within the City of Fort Pierce, St. Lucie County, Florida.

Assessment of the parcel included review of Soil Survey of St. Lucie County Area, a recent aerial photograph, and the National Wetland Inventory. A field inspection was conducted and included survey of the periphery of the parcel, with numerous transects made through the interior of the property. Vegetative communities were mapped on the aerial photograph. A cursory listed species survey and a gopher tortoise survey was conducted as part of this assessment.

The soil survey identifies Arents, organic substratum (6), and Canaveral fine sand, 0 to 5% slopes (10). The soils are well drained and are not considered hydric. The soils have been disturbed by past improvements such as the buildings, parking lot, tennis courts and excavation of the pond.

Review of the site identified a developed site with that included various accessory buildings and structures to support the Ocean Village community. In addition to the buildings and parking lot the site includes a grassed area and a pond. Both features are regularly maintained. Aside form the grass, the only other vegetation consists of landscape plants such as seagrapes, cabbage palms, and various hedges. The grassed area was covered with lawn clippings and soils in the northeast corner.

The land use and cover type identified is Urban (FLUCFCS 1720) and is mapped on the attached aerial.

The National Wetlands Inventory was reviewed, and no wetlands were noted on the site Field reconnaissance confirmed this. There are no areas meeting the state or federal wetland definition within the site. The pond is classified as a surface water and is not regulated.

A cursory review for wildlife species and their habitats was conducted as part of this assessment. Evidence and sighting of general non-listed species was noted and includes; a blue jay, cardinal and mocking bird. All of these species are common to the region and are not considered protected species.

A more detailed species-specific survey for gopher tortoises was conducted. This survey was performed by a Florida Fish and Wildlife Conservation Commission (FWC) permitted Authorized Agent in accordance with FWC survey protocols. Meandering pedestrian transects were walked through the subject lots with visual scanning of 100% coverage for burrows or other evidence of tortoise use (scat/tracks). The property is grassed and maintained, and visual evidence of burrows would be easy to recognize on this site. No tortoises or their burrows were observed on site.

Review of this site did not identify any qualified upland habitat, wetlands, or any listed species. Development of this site is not anticipated to have an adverse impact on these resources.

I trust this document provides the information necessary for the ecological issues. Please contact me if you have any questions. Thank you.

Sincerely,

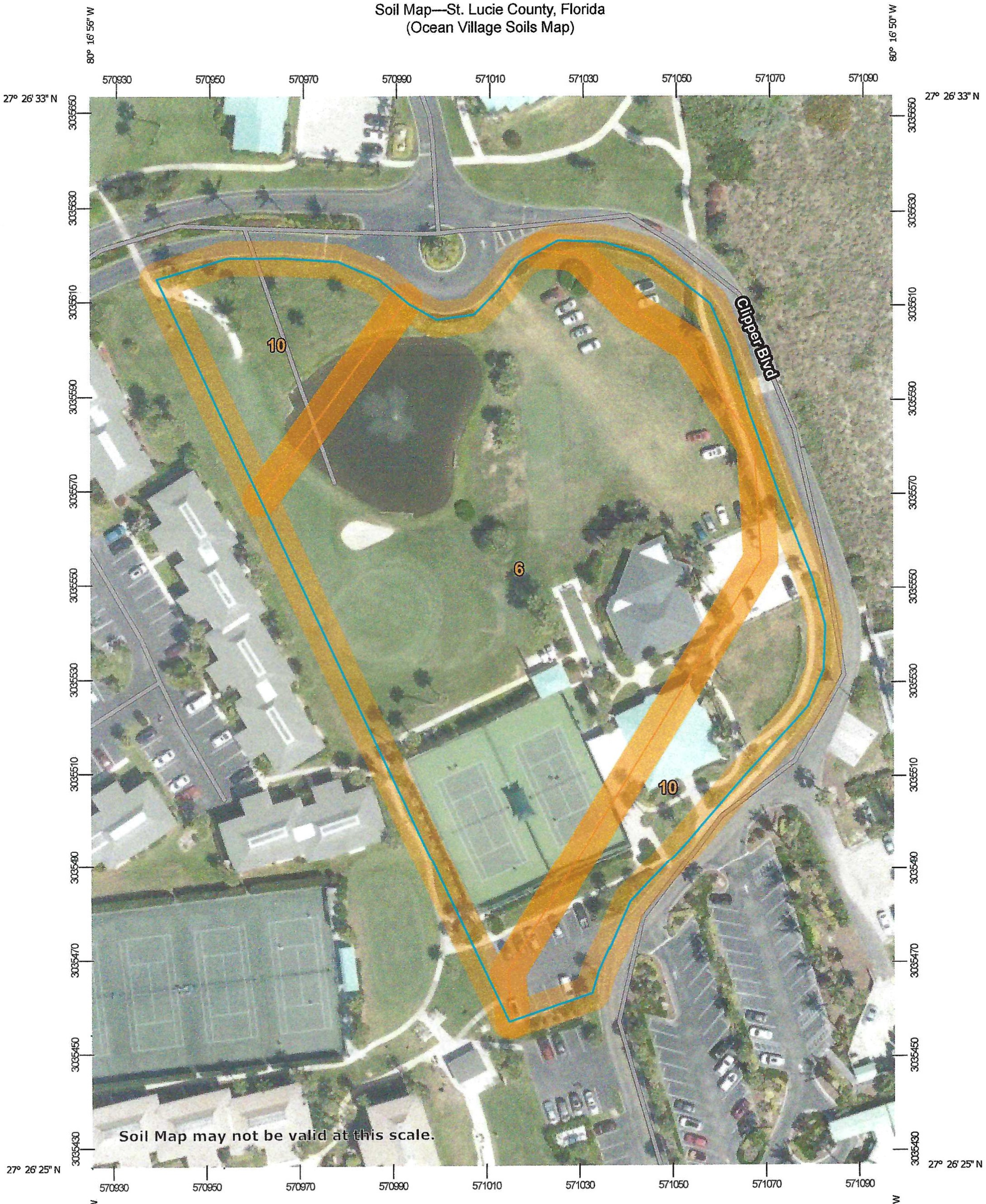
Ecological Consulting of Florida

D. Chris Sopotnick
President

DCS

2161.00

Soil Map—St. Lucie County, Florida
(Ocean Village Soils Map)



Map Scale: 1:1,110 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 15 30 60 90

Feet: 0 50 100 200 300

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 17N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: St. Lucie County, Florida
Survey Area Data: Version 14, Jun 9, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 6, 2019—Mar 23, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
6	Arents, organic substratum	2.4	70.2%
10	Canaveral fine sand, 0 to 5 percent slopes	1.0	29.8%
Totals for Area of Interest		**3.4**	**100.0%**

Ocean Village

Land Use and Cover Map



U.S. Fish and Wildlife Service

National Wetlands Inventory

Ocean Village NWI Map



May 25, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

O'ROURKE
ENGINEERING & PLANNING

May 13, 2021

Mr. Barrett Englert
Proctor & Associates
General Contractors, LLC
2050 US-1 Suite 200
Vero Beach, FL 32960

Re: Ocean Village Clubhouse

Dear Mr. Englert:

O'Rourke Engineering & Planning has completed the analysis of the proposed plan to reconstruct the clubhouse along Mainsail Drive in Fort Pierce. The purpose of this letter report is to demonstrate that the project has a de minimis impact on the roadway network. De minimis is defined as project traffic being less than 1 percent of level of service D capacity and the total traffic of the adjacent roadway being less than 110% of capacity at project buildout.

The steps in the analysis and the ensuing results are presented herein.

Project Description

The project consists of the expansion of the existing recreational center and supporting facilities. The expansion includes the relocation of one racquet court, the addition of one racquet court and additional clubhouse square footage. There is an existing office building that is not a part of the renovation. The project is located on Mainsail Drive within the Ocean Village resort community. **Attachment A** shows the project site plan.

Project Traffic

To estimate traffic generated by the expansion of the clubhouse and supporting facilities, the ITE Trip Generation, 10th Edition trip rates were applied. Trip generation for the project including daily, AM and PM peak hour is shown in **Attachment B**. As shown there will be a slight increase in trips of 132 net, new, daily trips, 10 net new AM peak hour trips and 16 net new PM peak hour trips.

The Ocean Village Clubhouse serves the Ocean Village community. Therefore, the traffic is internal to Ocean Village. As a conservative estimate, if 10% of the traffic is external to Ocean Village, 1 new trip would impact the external network in the AM peak hour and 2 trips would impact the external network in the PM peak hour.

Adjacent Street Traffic

State Road A1A (South Ocean Drive) is a two-lane minor arterial roadway serving the project. It has a capacity of 600 vehicle per hour per direction.

The project traffic has an assignment of 90% to the north and 10% to the south. Assigning the external trips, the impact would be 1 trip in the AM and 1 trip in the PM peak hour. Therefore, in the AM and PM peak hours, the project has an impact of 0.17% of capacity.

The total traffic on State Road A1A (South Ocean Drive) was calculated as existing plus growth for 3 years at 1% per year plus project traffic. (536 existing trips + 16 trips growth + 1 project trip = 559 total traffic)

The total traffic is less than LOS D capacity of 600.

Attachment C includes the growth rate calculation and St. Lucie County Traffic Counts and Level of Service Report Fall/Winter 2019/2020.

Conclusion

The project traffic is less than 1% of LOS D capacity and the total traffic on State Road A1A (South Ocean Drive) is less than 110% of capacity, therefore the project meets the criteria of De Minimis or insignificance.

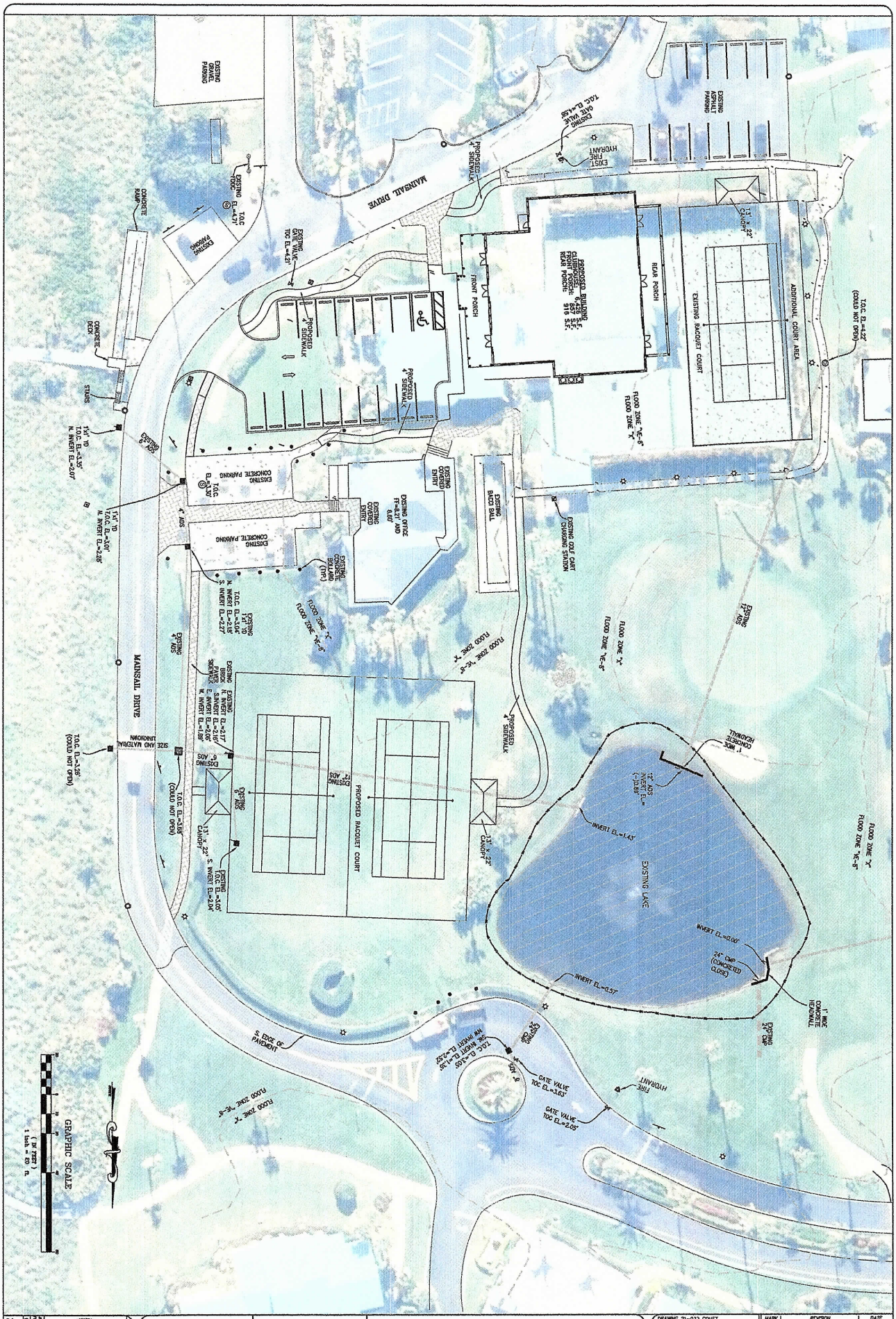
Additional analysis is not required, and the project satisfies concurrency.

It has been a pleasure working with you. If you have any questions or comments, please give me a call.

Respectfully submitted,

Susan E. O'Rourke, P.E.
Registered Civil Engineer – Traffic

Prepared by: O'Rourke Engineering & Planning Certificate of Authorization: #26869 22 SE Seminole Street Stuart, Florida 34994 772-781-7918	Professional Engineer Susan E. O'Rourke, P.E. Date signed and sealed: 5/19/2021 License #: 42684



PROJECT NO. 21-032	SHEET 2	OCEAN VILLAGE CLUBHOUSE	SITE PLAN WITH AERIAL

SCHULKE, BITTLE & STODDARD, L.L.C.
CIVIL & STRUCTURAL ENGINEERING _ LAND PLANNING _ ENVIRONMENTAL PERMITTING
CERTIFICATION OF AUTHORIZATION NO.: 00008668
1717 INDIAN RIVER BLVD., SUITE 201 VERO BEACH, FLORIDA 32960
TEL 772-770-9622 FAX 772-770-9498 EMAIL jbittle@sbsengineers.com
WEBSITE https://www.sbsengineers.com

DRAWING 21-032 CONST	
DESIGNED JBS	DRAWN JBB
CHECKED JBS	
SCALE 1"=20'	DATE 04/30/21

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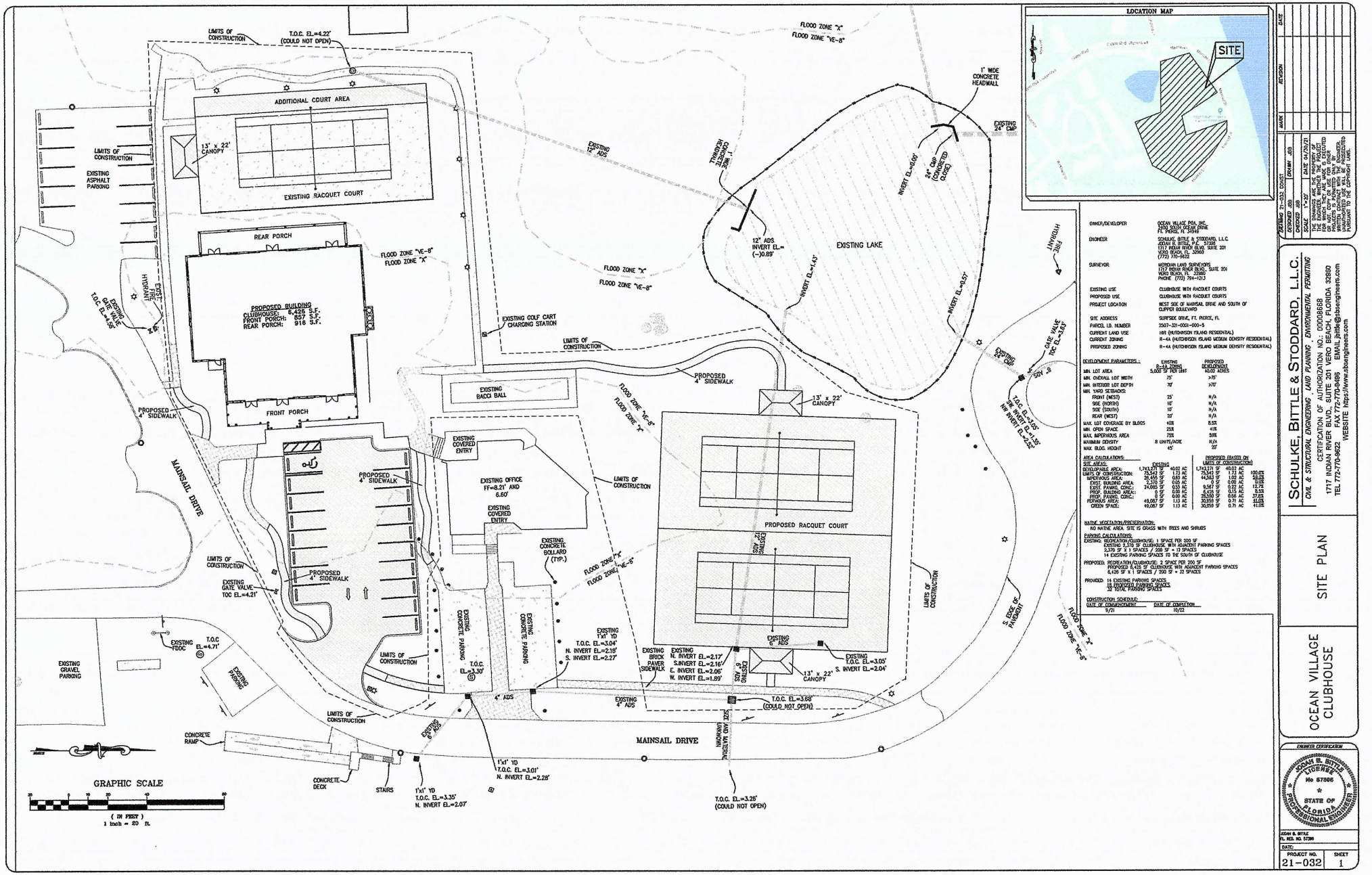
MARK	REVISION	DATE

JOHN B. BITTLE No. 57268 STATE OF FLORIDA REGISTERED PROFESSIONAL ENGINEER
SIGNED/SEALED ON: 4/30/21
PRINTS MUST BE SIGNED AND SEALED TO BE VALID



LOCATION MAP

OWNER/DEVELOPER	OCEAN VILLAGE POA, INC. 2350 JOHN YOUNG DRIVE FT. PIERCE, FL 34946
ENGINEER	SCHULKE, BITTLE & STODDARD, L.L.C. JOSIAH B. BITTLE, P.E. 57306 1717 INDIAN RIVER BLVD. SUITE 201 VERO BEACH, FL 32960 (772) 770-8622
SURVEYOR	MERIDIAN LAND SURVEYORS 1717 INDIAN RIVER BLVD., SUITE 201 VERO BEACH, FL 32960 PHONE (772) 794-1213
EXISTING USE	CLUBHOUSE WITH RACQUET COURTS
PROPOSED USE	CLUBHOUSE WITH RACQUET COURTS
PROJECT LOCATION	WEST SIDE OF MAINSAIL DRIVE AND SOUTH OF CUPPID BOULEVARD
SITE ADDRESS	SURFSIDE DRIVE, FT. PIERCE, FL
PARCEL I.D. NUMBER	2507-331-0001-000-5
CURRENT LAND USE	MIR (HUTCHINSON ISLAND RESIDENTIAL)
CURRENT ZONING	R-4A (HUTCHINSON ISLAND MEDIUM DENSITY RESIDENTIAL)
PROPOSED ZONING	R-4A (HUTCHINSON ISLAND MEDIUM DENSITY RESIDENTIAL)

DEVELOPMENT PARAMETERS:	EXISTING R-4A ZONING	PROPOSED DEVELOPMENT
MIN. LOT AREA	5,000 SF PER UNIT	43.02 ACRES
MIN. OVERALL LOT WIDTH	25'	>75'
MIN. INTERIOR LOT DEPTH	70'	>70'
MIN. YARD SETBACKS:		
FRONT (WEST)	25'	N/A
SIDE (NORTH)	10'	N/A
SIDE (SOUTH)	10'	N/A
REAR (WEST)	10'	N/A
MAX. LOT COVERAGE BY BLDGS	40%	8.5%
MIN. OPEN SPACE	25%	41%
MAX. IMPERVIOUS AREA	75%	59%
MAXIMUM DENSITY	8 UNITS/ACRE	N/A
MAX. BLDG. HEIGHT	45'	35'

AREA CALCULATIONS:

SITE AREAS:	EXISTING		PROPOSED (BASED ON LIMITS OF CONSTRUCTION)		
DEVELOPABLE AREA:	1,743,371 SF	40.02 AC	1,743,371 SF	40.02 AC	100.0%
LIMITS OF CONSTRUCTION:	75,543 SF	1.73 AC	75,543 SF	1.73 AC	4.33%
IMPERVIOUS AREA:	26,455 SF	0.60 AC	44,543 SF	1.02 AC	2.55%
EXIST. BUILDING AREA:	2,370 SF	0.05 AC	2,370 SF	0.05 AC	0.13%
EXIST. PAVING, CONC.:	24,085 SF	0.55 AC	9,567 SF	0.22 AC	12.7%
PROP. BUILDING AREA:	0 SF	0.00 AC	6,426 SF	0.15 AC	8.5%
PROP. PAVING, CONC.:	0 SF	0.00 AC	28,060 SF	0.66 AC	37.0%
PERVIOUS AREA:	49,087 SF	1.13 AC	30,959 SF	0.71 AC	41.0%
GREEN SPACE:	49,087 SF	1.13 AC	30,959 SF	0.71 AC	41.0%

NATIVE VEGETATION/PRESERVATION:
NO NATIVE AREA. SITE IS GRASS WITH TREES AND SHRUBS

PARKING CALCULATIONS:
EXISTING: RECREATION/CLUBHOUSE: 1 SPACE PER 200 SF
EXISTING 2,370 SF CLUBHOUSE WITH ADJACENT PARKING SPACES
2,370 SF X 1 SPACES / 200 SF = 12 SPACES
14 EXISTING PARKING SPACES TO THE SOUTH OF CLUBHOUSE

PROPOSED: RECREATION/CLUBHOUSE: 2 SPACE PER 200 SF
PROPOSED 6,426 SF CLUBHOUSE WITH ADJACENT PARKING SPACES
6,426 SF X 1 SPACES / 200 SF = 32 SPACES

PROVIDED: 14 EXISTING PARKING SPACES
18 PROPOSED PARKING SPACES
32 TOTAL PARKING SPACES

CONSTRUCTION SCHEDULE:

DATE OF COMMENCEMENT	DATE OF COMPLETION
9/21	10/22

NO.	REVISION	MARK	DATE

DRAWING 21-032 COAST
DESIGNED JBB | DRAWN JBB
CHECKED JBB
SCALE 1"=20'
DATE 04/29/21

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1717 INDIAN RIVER BLVD., SUITE 201 VERO BEACH, FLORIDA 32960
TEL 772-770-8622 FAX 772-770-8486 EMAIL jbittle@sbengineers.com
WEBSITE https://www.sbengineers.com

OCEAN VILLAGE CLUBHOUSE

SITE PLAN

ENGINEER CERTIFICATION

JOSIAH B. BITTLE LICENSE No 57306 STATE OF FLORIDA PROFESSIONAL ENGINEER

JOSIAH B. BITTLE
FL. REG. NO. 57306

DATE:

PROJECT NO. 21-032

SHEET 1

ATTACHMENT B

TRIP GENERATION

Table 1 - Trip Generation - Daily

Land Use	ITE Code	Intensity	Units	Trip Generation Rate	Directional Split		Gross Trips		
					In	Out	In	Out	Total
Proposed Land Use									
Recreational Community Center	495	6,426	Sft	Ln(T) = 0.98Ln(X) + 3.42	50%	50%	95	94	189
Bocce Court	491	1	Courts	T=27.71(X)	50%	50%	14	14	28
Racquet Court*	491	3	Courts	T=27.71(X)	50%	50%	42	41	83
Sub Total							**151**	**149**	**300**
Existing Land Use									
Recreational Community Center	495	2,899	Sft	Ln(T) = 0.98Ln(X) + 3.42	50%	50%	44	43	87
Bocce Court	491	1	Courts	T=27.71(X)	50%	50%	14	14	28
Racquet Court	491	2	Courts	T=27.71(X)	50%	50%	28	27	55
Sub Total							**86**	**84**	**170**
Net Change							**65**	**65**	**130**

Source: ITE Trip Generation Rates 10th Edition, March 2, 2020

*** Tennis or Pickle Ball**

Table 2 - Trip Generation - AM Peak Hour

Land Use	ITE Code	Intensity	Units	Trip Generation Rate	Directional Split		Gross Trips		
					In	Out	In	Out	Total
Proposed Land Use									
Recreational Community Center	495	6,426	Sft	Ln(T) = 0.54Ln(X) + 2.73	66%	34%	28	14	42
Bocce Court	491	1	Courts	T = 1.47(X)	50%	50%	1	-	1
Racquet Court*	491	3	Courts	T = 1.47(X)	50%	50%	2	2	4
Sub Total							**31**	**16**	**47**
Existing Land Use									
Recreational Community Center	495	2,899	Sft	Ln(T) = 0.54Ln(X) + 2.73	66%	34%	18	9	27
Bocce Court	491	1	Courts	T = 1.47(X)	50%	50%	1	-	1
Racquet Court	491	2	Courts	T = 1.47(X)	50%	50%	2	1	3
Sub Total							**21**	**10**	**31**
Net Change							**10**	**6**	**16**

Source: ITE Trip Generation Rates 10th Edition, March 2, 2020

*** Tennis or Pickle Ball**

Table 3 - Trip Generation - PM Peak Hour

Land Use	ITE Code	Intensity	Units	Trip Generation Rate	Directional Split		Gross Trips		
					In	Out	In	Out	Total
Proposed Land Use									
Recreational Community Center	495	6,426	Sft	Ln(T) = 0.76Ln(X) + 2.00	47%	53%	14	16	30
Bocce Court	491	1	Courts	T = 3.82(X)	50%	50%	2	2	4
Racquet Court*	491	3	Courts	T = 3.82(X)	50%	50%	6	5	11
Sub Total							**22**	**23**	**45**
Existing Land Use									
Recreational Community Center	495	2,899	Sft	Ln(T) = 0.76Ln(X) + 2.00	47%	53%	8	9	17
Bocce Court	491	1	Courts	T = 3.82(X)	50%	50%	2	2	4
Racquet Court	491	2	Courts	T = 3.82(X)	50%	50%	4	4	8
Sub Total							**14**	**15**	**29**
Net Change							**8**	**8**	**16**

Source: ITE Trip Generation Rates 10th Edition, March 2, 2020

*** Tennis or Pickle Ball**

ATTACHMENT C

GROWTH DATA

ST. LUCIE COUNTY TRAFFIC COUNTS &
LEVEL OF SERVICE REPORT FALL/WINTER 2019/2020

Historical Growth Rate Calculation

Segment	From	To	2015 AADT	2019 AADT	4 Year Historical Growth Rate
SR A1A	Blue Heron Blvd	Seaway Drive	8,000	8,300	0.92%
		Total	8,000	8,300	1.00%

*Source FDOT Historical Traffic Counts

St. Lucie Transportation Planning Organization

Coco Vista Centre
466 SW Port St. Lucie Blvd, Suite 111
Port St. Lucie, FL 34953
772-462-1593 www.stlucietpo.org

Traffic Counts and Level of Service Report
Fall/Winter 2019/2020

Roadway Name	Location	STATION ID	AADT	Last Count Year	Pk Hr Service Capacity	AM Pk Hr Pk Dir			PM Pk Hr Pk Dir		
						Volume	LOS	V/C	Volume	LOS	V/C
SNEED RD	OKEECHOBEE RD to ORANGE AVE	151	1,079	2019	670	68	B	0.309	83	B	0.377
SOUTHBEND BLVD	BECKER RD to FLORESTA DR	337	16,000	2019	790	931	F	1.108	971	F	1.156
SR A1A NORTH	US 1 to OLD DIXIE HWY	940709	10,600	2019	920	715	C	0.822	716	C	0.823
SR A1A NORTH	OLD DIXIE HWY to N HWY A1A	706	10,500	2020	2,000	558	C	0.641	621	C	0.714
SR A1A NORTH	SHOREWINDS DR to INDIAN RIVER C.L.	940114	8,100	2019	920	435	C	0.500	478	C	0.549
SR A1A SOUTH	NETTLES ISLAND to FPL PLANT	940719	4,400	2019	920	269	C	0.309	241	C	0.277
SR A1A SOUTH	FPL PLANT to BLUE HERON BLVD	940116	3,500	2019	700	418	C	0.633	336	C	0.509
SR A1A SOUTH	BLUE HERON BLVD to SEAWAY DR	945016	8,300	2019	600	448	D	0.747	536	D	0.893
SR A1A SOUTH	OCEAN DR to BINNEY DR	940115	15,900	2019	600	791	F	1.236	827	F	1.292
SR A1A SOUTH	BINNEY DR to S CAUSEWAY PARK	940115	15,900	2019	790	791	E	0.942	827	E	0.985
SR A1A SOUTH	S CAUSEWAY PARK to INDIAN RIVER DR	940711	11,900	2019	1,550	655	C	0.949	592	C	0.858
SR A1A SOUTH	INDIAN RIVER DR to US 1	940711	11,900	2019	1,710	655	C	0.851	592	C	0.769
ST JAMES DR	AIROSO BLVD to ST JAMES BLVD	172	16,500	2020	2,100	1,129	C	0.562	1,088	C	0.541
ST JAMES DR	ST JAMES BLVD to PEACHTREE BLVD	239	19,000	2020	2,100	1,345	C	0.669	1,301	C	0.647
ST JAMES DR	PEACHTREE BLVD to TELFORD AVE	172	16,500	2020	1,800	1,129	C	0.656	1,088	C	0.633
ST JAMES DR	TELFORD AVE to MIDWAY RD	345	19,500	2020	2,100	1,188	C	0.591	1,173	C	0.584
ST JAMES BLVD	SELVITZ RD to ST JAMES DR	707	4,750	2017	790	279	C	0.715	275	C	0.705
ST LUCIE BLVD	KINGS HWY to KEEN RD	156	5,710	2019	880	310	C	0.373	407	C	0.490
ST LUCIE BLVD	KEEN RD to 25TH ST	156	5,710	2019	880	310	C	0.373	407	C	0.490
ST LUCIE BLVD	25TH ST to SENECA AVE	940270	5,600	2019	750	287	C	0.776	291	C	0.786
ST LUCIE BLVD	SENECA AVE to US 1	940270	5,600	2019	790	287	C	0.736	291	C	0.746
ST LUCIE WEST BLVD	COMMERCE CENTER DR to W OF I-95	152	13,500	2019	700	662	D	0.946	683	D	0.976
ST LUCIE WEST BLVD	I-95 to CALIFORNIA BLVD	318	36,000	2019	2,100	1,722	C	0.857	1,670	C	0.831
ST LUCIE WEST BLVD	CALIFORNIA BLVD to COUNTRY CLUB DR	318	36,000	2019	2,100	1,722	C	0.857	1,670	C	0.831
ST LUCIE WEST BLVD	COUNTRY CLUB DR to CASHMERE BLVD	318	36,000	2019	2,100	1,722	C	0.857	1,670	C	0.831

* Note: A six digit number in the "STATION ID" column identifies segment counted by FDOT
* Volumes shown were adjusted using FDOT Seasonal Factors
* AADT = Annual Average Daily Traffic (volumes for both directions where applicable)
*** Counts with an ID format of 6 digits have data extracted from FDOT count stations.**

FLORIDA DEPARTMENT OF TRANSPORTATION
TRANSPORTATION STATISTICS OFFICE
2019 HISTORICAL AADT REPORT

COUNTY: 94 - ST.LUCIE

SITE: 5016 - SR A1A/S - S OF SEAWAY DR (COUNTY 5016)

YEAR	AADT	DIRECTION 1	DIRECTION 2	*K FACTOR	D FACTOR	T FACTOR
2019	8300 C	N 4000	S 4300	9.00	52.50	11.50
2018	8400 C	N 4200	S 4200	9.00	52.40	11.50
2017	8100 C	N 4100	S 4000	9.00	52.00	9.00
2016	8800 C	N 4500	S 4300	9.00	52.30	9.00
2015	8000 C	N 4100	S 3900	9.00	52.70	9.00
2014	7800 C	N 3900	S 3900	9.00	52.50	5.60
2013	6800 C	N 3500	S 3300	9.00	55.90	3.70
2012	6700 F	N 3300	S 3400	9.00	55.80	3.70
2011	6700 C	N 3300	S 3400	9.00	56.20	3.70
2010	7500 F	N 3700	S 3800	11.16	56.34	4.80
2009	7500 C	N 3700	S 3800	11.51	56.49	8.50
2007	8300 C	N 4000	S 4300	11.33	56.77	8.50
2006	8600 C	N 4300	S 4300	11.16	57.49	8.50
2005	7200 C	N 3600	S 3600	11.60	56.20	5.10
2004	7800 C	N 3800	S 4000	11.10	57.00	5.10

AADT FLAGS: C = COMPUTED; E = MANUAL ESTIMATE; F = FIRST YEAR ESTIMATE
S = SECOND YEAR ESTIMATE; T = THIRD YEAR ESTIMATE; R = FOURTH YEAR ESTIMATE
V = FIFTH YEAR ESTIMATE; 6 = SIXTH YEAR ESTIMATE; X = UNKNOWN
*K FACTOR: STARTING WITH YEAR 2011 IS STANDARDK, PRIOR YEARS ARE K30 VALUES

Ocean Village



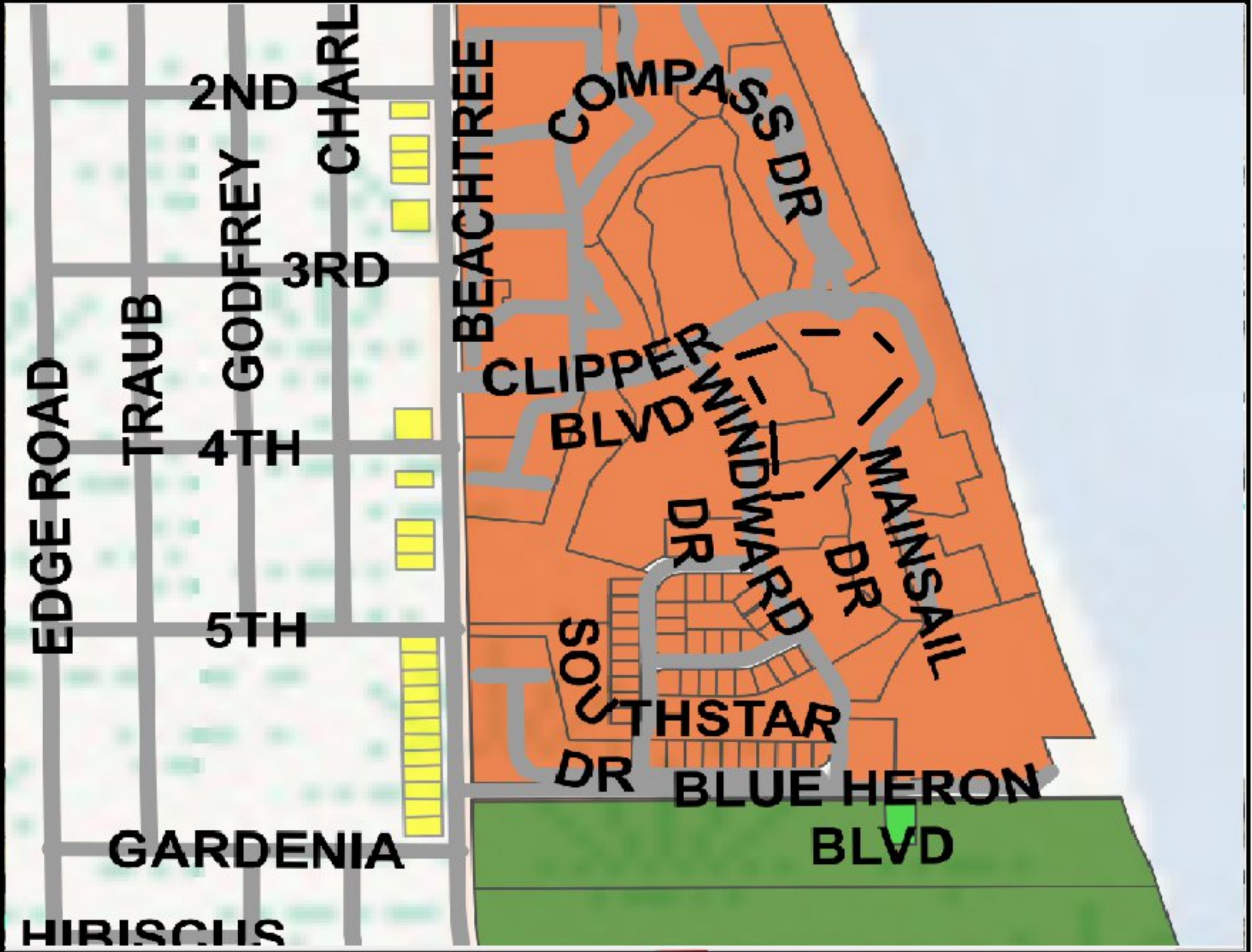
Imagery © 2016 Google, Map data ©2016 Google

Northern Legend

A. Capstan
B. Golf Villas
C. Coral Cluster
D. Beachtree I
E. Beachtree II
F. Bermuda Center & Pool
G. Catamaran I
H. Cayman Center & Pool
I. Seascape I

Southern Legend

J. Office
K. Tennis Courts
L. Tennis Pro Shop
M. Golf Shack
N. Restaurant
O. Club House
P. Tiki Bar
Q. Seascape II
R. Ocean House
S. Aruba Center & Pool
T. Ocean Villas I
U. Ocean Villas II
V. Ocean Villas III
W. Southpoint Homes
X. Catamaran II
Y. Golf Lodges South
Z. Golf Lodges North



Legend

Subject Site

FLU Map

HIR, Hutchinson Island Residential

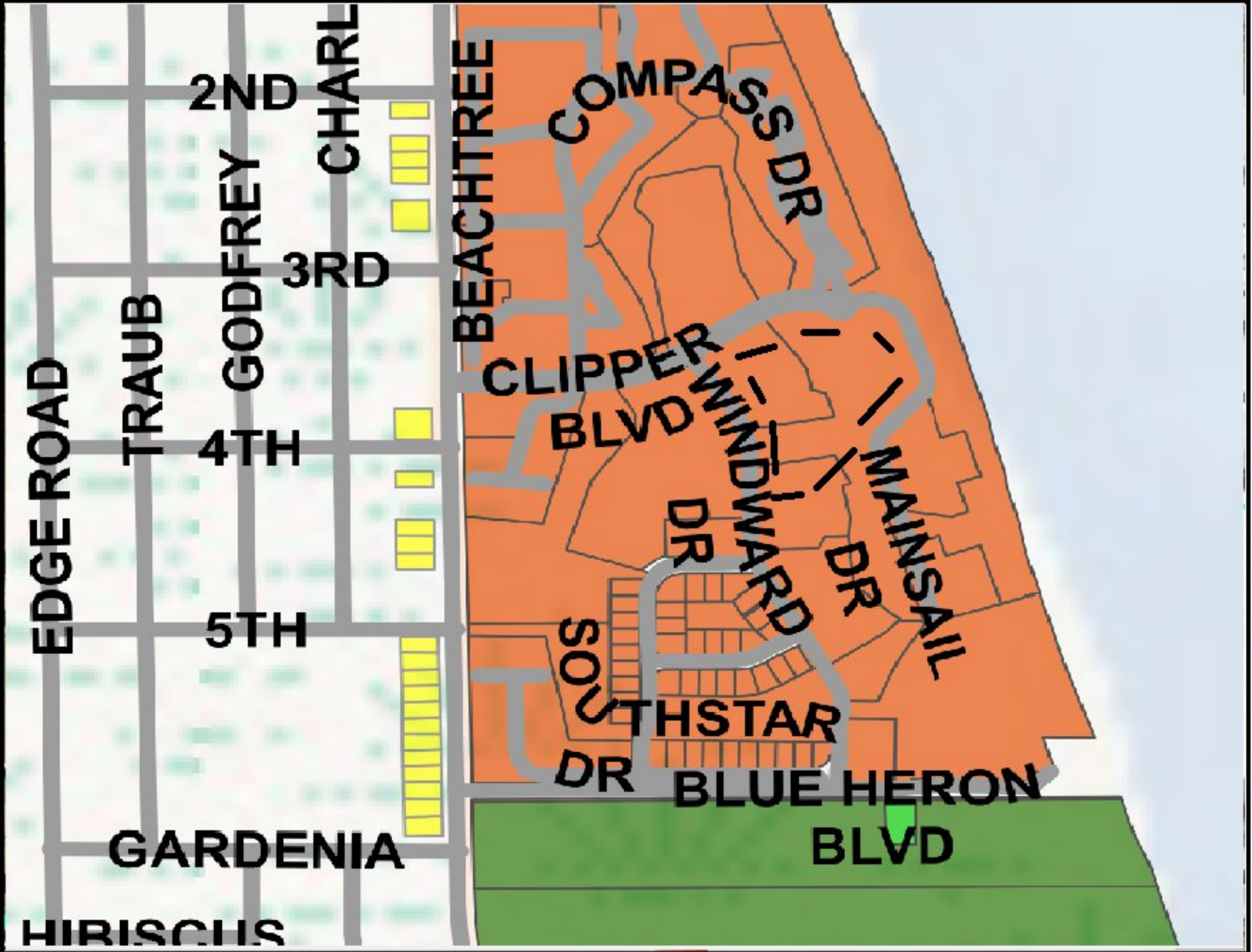
RL, Low Density Residential

CO, Conservation and Open Space

Ocean Village Clubhouse

2400 S. Ocean Drive

THE SUNRISE CITY
FORT PIERCE
Florida



Legend

Subject Site

Zoning Map

R-4A, Hutchinson Isl. Med. Density Res. Zone

R-1, Single-Family Low Density Zone

OS-2, Conservation Open Space Zone

Ocean Village Clubhouse

2400 S. Ocean Drive

THE SUNRISE CITY FORT PIERCE Florida

THE SUNRISE CITY
FORT PIERCE
PLANNING DEPARTMENT Florida

June 16, 2021

Schulke, Bittle & Stoddard, LLC c/o Jodah B. Bittle, P.E.
1717 Indian River Boulevard, Suite 201
Vero Beach, FL 32960

Subject: Ocean Village Clubhouse – 2400 S. Ocean Drive – TRC Comments & Conditions

Fort Pierce Planning Department

Comments & Conditions:

1. Per City Code Section 123.-6. – Required Bond., Provide a completion certification by the landscape architect, a landscape cost estimate sheet, and a security bond, certified deposit (CD), cashier's check or a certified check upon a solvent local bank conditioned to secure 100 percent of the supply and installation cost of the landscaping improvements required. **A Landscape Bond, Certification of Completion by a Certified Landscape Architect, and a Cost Estimate List must be provided prior to receiving Certificate of Occupancy.**

2. Please provide a color overlay of the proposed landscaping and consider more shade trees.

3. Please provide color elevations of the proposed clubhouse.

Fort Pierce Engineering Department

Please see the attached document from the Engineering Department

Fort Pierce Utility Authority

FPUA W/WW Engineering: The Proposed facility will require a grease trap because of the proposed kitchen. A transition sewer manhole will be required at FPUA's point of service on the service lateral.
Please submit 3 complete sets of utility construction plan along with a completed plan review and commercial service application to the Water and Wastewater Engineering Department located at 1701 S 37th Street Fort Pierce Florida for review. For more information please contact Lugey Dawson at 772 466 1600 ext. 3428.

FPUA Electric & Gas Engineering: Approved. Electric service is existing and available. Please provide electric load information for the new service and AutoCAD drawing. Customer will be responsible for all conduits (primary and secondary), transformer pad and secondary conductors. For more information and project coordination, please contact Sal Scimeca.

Sal Scimeca
Engineering Technician II
Electric and Gas Engineering

1701 S. 37th Street, Fort Pierce, FL 34947
sscimeca@fpua.com
Office: (772)466-1600 Ext. 6957

FPUA will require a utility easement for all propose FPUA underground distribution lines and equipment's within the site.
Please find attached a copy of the FPUA GIS map (Electric).



If the owner/representatives should have any questions, please have them contact me or the individual listed above.

Thank you,
Paul Laguerre
Utility Designer
Fort Pierce Utilities Authority
1701 S. 37th Street
Fort Pierce, Florida 34947
Phone (772)466-1600 Ext. 6757
Fax (772)461-1938
Plaguerre@fpua.com

Fort Pierce Building Department

Please see the attached document from the Building Department

St. Lucie County Planning Department

No Comments received

St. Lucie County PW/Engineering

No Comments received

City Clerk Office

No Comments received

Code Enforcement

No Comments

Fort Pierce Police Department

No Comments received

St. Lucie County Fire District

Please see the attached document from the St. Lucie County Fire District

Florida Department of Transportation

No Comments received

St. Lucie County Transit Agency

No Comments received

St. Lucie County School Board

No Comments

THE SUNRISE CITY
FORT PIERCE
BUILDING DEPARTMENT Florida

BUILDING DEPARTMENT
TECHNICAL REVIEW COMMITTEE (TRC)
COMMENT FORM

Meeting Date: 6.17.21
Property Address: Site Plan and Conditional Use - Ocean Village Clubhouse - 2400 S. Ocean Drive

Please be advised that the project may trigger the requirements indicated below:

☑ 1. Building Official or his representative has no comment at the time of this meeting, but reserves submission of comments upon completion of the official plan review.

☐ 2. Pre-construction meeting with the City's Building Department is requested.

☑ 3. Any construction will need to meet the requirements of the Florida Building Code 7th Edition.

☐ 4. Means of egress is required.

☐ 5. Means of ingress is required.

☑ 6. Must meet the following Accessibility requirements:

- ☑ Accessible route
- ☑ Handicapped parking spaces
- ☑ Means of egress

☐ 7. Change of Use required

- ☐ to include a signed and sealed Life Safety Plan
- ☐ to include a signed and sealed detailed comprehensive building plan.

☑ 8. Property may exists in Special Flood Hazard Area. All Federal and State requirements shall be addressed.

☐ 9. Flood Development Permit required.

☐ 10. Building Permit required.

☑ 11. Signed and sealed construction drawings required.

☐ 12. Will need to meet the Fire Code.

☐ 13. Sprinkler system is required.

☐ 14. Smoke alarm system is required.

☐ 15. Other

Additional Comments/Requirements:

Possible compliance with Local Sea Turtle Ordinance

Building Official's or Representative's Signature _____ Date: 6/15/21

THE SUNRISE CITY
FORT PIERCE
Florida
ENGINEERING
DEPARTMENT

TO : Vennis Gilmore, Planner

FROM : John R. Andrews, P.E., City Engineer

RE : Ocean Village Clubhouse – 2400 S. Ocean Drive
Site Plan and Conditional Use Application
TRC No. 21-07000012

DATE : June 15, 2021

This is to advise you that we have completed the review of the following documents as received by this office on June 9, 2021:

- [x] Site Plan & CU Application
- [ ] Construction Drawings
- [ ] Test Reports & Related Documents
- [ ] Executed Construction Contract
- [ ] Record Drawings
- [ ] Permits from applicable Local, State & Federal Agencies
- [ ] Clearances from all applicable Local, State and Federal Agencies

Based on our reviews and appropriate site final inspection, we

- [x] Recommend
- [ ] Do Not Recommend

- [x] Site Plan Approval
- [ ] Building Permit
- [ ] C/O

Developer, Owner, Engineer, Contractor and other members of the Development Team must be aware, the above recommendation is based only on the construction requirements of the engineering plans and other engineering documentation approved by this department. The Development Team shall be responsible for the compliance with other City department requirements and all approved documents, as well as Local, State and Federal regulations. The development requirements for this project may necessitate additional construction requirements that are not subject to this department's review for approval.

- [x] See attached for advisory comments

Q:\ENGINEERING\Site Development Projects\O\Ocean Village\Site Plan\Clubhouse\Submittal No. 1 - 060421\SP Approval - 061521.docx

ENGINEERING ADVISORY COMMENTS:

1. The drainage plan was reviewed conceptually, and a thorough review of the plan will be conducted at time of Site Work Permit application.
2. Required permitting for the project may include South Florida Water Management District and Florida Department of Environmental Protection (NPDES Permit and CCCL General Permit).

JRA/TST/tst

100 NORTH US 1, FORT PIERCE, FLORIDA 34950 ▪ CITYOFFORTPIERCE.COM ▪ TEL: 772.467.3000 ▪ FAX: 772.460.6847

ST. LUCIE COUNTY FIRE DISTRICT
Community Risk Reduction Division
Office of the Fire Marshal

Telephone: **(772) 621-3322**
Fax: **(772) 621-3604**

BUREAU OF FIRE PREVENTION

SITE PLAN REVIEW

TO: Site Plan Applicant

SITE PLAN: Ocean Village Clubhouse 240 S. Ocean Drive

REVIEW DATE: 6/7/2021

PLANNER: GILMORE

REVIEWED BY: Captain Wayne Boyer

Site Plan Approved: _____

Site Plan Approved with conditions: ___X____

Site Plan Approval withheld pending written acknowledgement of conditions: _____

Site Plan Rejected: _____

The Following Revisions Are Necessary:

1. **Please submit a completed application for Development/Site Plan Review (St. Lucie County Fire District Development & Site Plan Review Application). This form is available on-line at https://www.slcfd.com**
2. **Fire District review fees are due at the time of submittal. An abbreviated fee schedule is included on the application form.**
3. **Please send the Fire District electronic plans for the site and buildings.**
4. **A separate review and permit is required for Underground Fire Mains connected to standpipes or sprinkler systems.**
5. **Fire hydrants (shall be) are provided for buildings other than detached one-and-two-family dwellings IAW both of the following 1) The maximum distance to a fire**

hydrant from the closest point in the building shall not exceed 400 feet. 2) The maximum distance between fire hydrants shall not exceed 500 feet. NFPA 1:18.5.3. Please provide fire flow calculations for hydrants.

6. **An approved water supply capable of supplying the required fire flow for fire protection (shall be) is identified to all premises upon which facilities, buildings, or portions of buildings which are to be constructed or moved into the jurisdiction. The approved water supply shall be in accordance with NFPA 1:18.4. See "Needed NFPA Fire Flow Calculator Spreadsheet".**

7. **Per NFPA 1114 Chapter 9, Section 1.3. Prior to the final occupancy of any building, the permitted water supply for fire protection, including fire hydrants and fire suppression systems, shall be installed, tested, and acceptable to the AHJ (SLCFD).**

8. **Be advised: Dimensions of largest vehicle are as follows: 38 tons or 77k lbs, 47.5 ft. total length, 21.5 ft. wheel base, 10.5 ft. total width, 41.5 degree turning radius.**

9. **Site Plans shall include all necessary fire department access roadways and fire lanes as determined by the Fire Marshal. At least 13 feet 6 inches nominal vertical clearance shall be provided and maintained over the full width of all means of access. Including, but not limited to trees, canopies, etc., as referred to in Exhibit "A," attached hereto.**
   Minimum roadway pavement width (two-way traffic) shall be twenty (20) feet.
   Minimum roadway pavement width (one-way traffic) shall be twelve (12) feet.

10. **Two-Way Radio Enhancement Systems/BDAS shall be installed, inspected and operationally tested in accordance with the manufacturer's published requirements, by the local fire department, and comply with the most current edition of the Florida Fire Prevention Code and its incorporated standards and codes. Pre-surveys of radio signal strength shall be submitted to the Fire Marshal in the form of heat signature mapping or a certification document of radio signal strength provided by a licensed engineer.**

11. **The Fire District reserves the right for future comments at the site plan & building construction phase.**

Planning Board **7. g.**

Meeting Date: 07/14/2021

Information

REQUESTED ACTION

Disposal of Surplus Property - 133 N. 10th Street

LOCATION

133 North 10th Street, identified by Parcel ID: 2409-513-0010-000-9

RESPONSIBLE STAFF

Shyanne Harnage, FRA-RP, Economic Development Manager

RECOMMENDATION

In accordance with the Fort Pierce Code of Ordinances, Section 101-23 (4), staff recommends the Planning Board review the request and forward a recommendation to the City Commission for approval of the sale of real property located at 133 North 10th Street, identified by Parcel ID: 2409-513-0010-000-9, with a legal description of: FAIRMAUR PARK BLK 3 LOT 2 (OR 4080-2366) to Brenda Smith and John Bess of Washington, DC.

Attachments

staff report

SLC property card

applicant submittal material

Form Review

Form Started By: Jennifer Hofmeister Started On: 07/08/2021 08:34 AM

Final Approval Date: 07/08/2021

THE SUNRISE CITY
FORT PIERCE
CITY MANAGER'S OFFICE Florida

TO : PLANNING BOARD

THRU : Jennifer Hofmeister, AICP, LCAM, Planning Director

FROM : Shyanne Harnage, FRA-RP, Economic Development Manager

RE : Disposal of Surplus Property – 133 N. 10TH Street

DATE : July 7, 2021

Background:
The City of Fort Pierce is the owner of real property located at 133 North 10th Street, identified by Parcel ID: 2409-513-0010-000-9, with a legal description of: FAIRMAUR PARK BLK 3 LOT 2 (OR 4080-2366). The subject property is mostly cleared, rectangular in shape and consists of +/- 0.22 acres or 9,504 square feet.

The subject property was declared surplus by the Fort Pierce City Commission on January 19, 2021, via Resolution 21-R10.

Bid number 2021-025 was issued on March 29, 2021. The City received five (5) responsive bids for 133 North 10th Street.

City staff evaluated the response cumulatively as follows:

Respondent	Future Utilization (80)	Timeline (60)	Economic Impact (40)	Narrative (20)	Total (200)
Brenda Smith + John Bess Washington, DC $13,100	78	58	40	20	196
J.B.M. Properties, LLC. San Diego, CA $5,100	75	55	25	15	170
Joanna Gilchrist Fort Pierce, FL $3,000	25	0	10	8	43
2nd Generation Building Port St. Lucie, FL $10,200	70	0	33	0	103
1865 Realty Group, LLC Fort Pierce, FL $200	45	0	3	1	49

Recommendation:
In accordance with the Fort Pierce Code of Ordinances, Section 101-23 (4), staff recommends the Planning Board review the request and forward a recommendation to the City Commission for **approval** of the sale of real property located at 133 North 10th Street, identified by Parcel ID: 2409-513-0010-000-9, with a legal description of: FAIRMAUR PARK BLK 3 LOT 2 (OR 4080-2366) to Brenda Smith and John Bess of Washington, DC.

Michelle Franklin, CFA -- Saint Lucie County Property Appraiser -- All rights reserved.

Property Identification

Site Address: 133 N 10th ST
Sec/Town/Range: 09/35S/40E
Parcel ID: 2409-513-0010-000-9
Jurisdiction: Fort Pierce

Use Type: 0000
Account #: 21570
Map ID: 24/09N
Zoning: Medium Den



Ownership

City of Fort Pierce
100 N US Highway 1
Fort Pierce, FL 34950-4205

Legal Description

FAIRMAUR PARK BLK 3 LOT 2 (OR 4080-2366)

Current Values

Just/Market Value:	$5,500
Assessed Value:	$5,500
Exemptions:	$5,500
Taxable Value:	$0

Property taxes are subject to change upon change of ownership.

- **Past taxes are not a reliable projection of future taxes.**
- **The sale of a property will prompt the removal of all exemptions, assessment caps, and special classifications.**

Taxes for this parcel: SLC Tax Collector's Office
Download TRIM for this parcel: Download PDF

Total Areas

Finished/Under Air (SF):	0
Gross Sketched Area (SF):	0
Land Size (acres):	0.22
Land Size (SF):	9,504

Building Design Wind Speed

Occupancy Category	I	II	III & IV
Speed	140	160	160

Sources/links:

Sale History

Date	Book/Page	Sale Code	Deed	Grantor	Price
Dec 19, 2017	4080 / 2366	0318	DE	Board of County Commissioners of St Lucie Cty	$100
Jul 21, 2017	4025 / 2171	0111	TD	Cueto Sheila	$0
Oct 29, 2013	3585 / 0231	0311	PR	Cueto (EST) Leo	$0
Oct 26, 2004	2085 / 0163	XX02	QC	3 Golden Holdings LLC	$100
Dec 11, 2003	1862 / 0781	XX01	QC	Cueto (TR) Leo	$100
Oct 28, 2003	1830 / 1524	XX01	TD	One Source Financial Inc	$17,300
Apr 25, 1997	1074 / 1895	XX01	WD	FINANCIAL DATASOURCE INC	$13,800
Apr 26, 1996	1018 / 2749	XX01	DE	Melvin B Dubois	$5,000
Jan 1, 1975	0235 / 0162	XX00	CV		$14,500

Building Information (1 of 1)

Finished Area: 0 SF

Gross Sketched Area: 0 SF

Exterior Data

View: Roof Cover: Roof Structure:

Building Type:	Year Built: N/A	Frame:
Grade:	Effective Year: N/A	Primary Wall:
Story Height:	No. Units: 0	Secondary Wall:

Interior Data

Bedrooms: 0	Electric:	Primary Int Wall:
Full Baths: 0	Heat Type:	Avg Hgt/Floor: 0
Half Baths: 0	Heat Fuel:	Primary Floors:
A/C %: 0%	Heated %: N/A%	Sprinkled %: 0%



Image or Sketch unavailable for display

Sketch Area Legend

Sub Area	Description	Area	Fin. Area	Perimeter

Special Features and Yard Items

Type	Qty	Units	Year Blt

Current Year Values

Current Values Breakdown

Building:	$0
Land:	$5,500
Just/Market:	$5,500
Ag Credit:	$0
Save Our Homes or 10% Cap:	$0
Assessed:	$5,500
Exemption(s):	$5,500
Taxable:	$0

Current Year Exemption Value Breakdown

Tax Year	Grant Year	Code	Description	Amount
2020	2018	8000	City of Ft Pierce	$5,500

Current Year Special Assessment Breakdown

Start Year	AssessCode	Units	Description	Amount
1999	0041	1	Fort Pierce Stormwater Charge	$69.00

This does not necessarily represent the total Special Assessements that could be charged against this property. The total amount charged for special assessments

is reflected on the most current tax statement and information is available with the SLC Tax Collector's Office.

Historical Values

Year	Just/Market	Assessed	Exemptions	Taxable
2020	$5,500	$5,500	$5,500	$0
2019	$7,100	$5,170	$5,170	$0
2018	$4,700	$4,700	$4,700	$0

Permits

Number	Issue Date	Description	Amount	Fee
BP10-0254	Mar 4, 2010	Demolition	$0	$200

Notice: This does not necessarily represent all the permits for this property.
Click the following link to check for additional permit data in Fort Pierce

All information is believed to be correct at this time, but is subject to change and is provided without any warranty.
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DELIVER TO: City of Fort Pierce, Purchasing Division Room 101 100 North U.S. #1 Fort Pierce, FL 34950 **MAIL TO:** City of Fort Pierce Purchasing Division, Room 101 P.O. Box 1480 Fort Pierce, FL 34954-1480	**CITY OF FORT PIERCE** **INVITATION TO BID** **and** **BIDDER ACKNOWLEDGMENT**
Bid Writer: Latonya Hubbard, 772-467-3102	Bid No: 2021-025
Mandatory Site-Visit: N/A	Bid Title: DISPOSITION OF SURPLUS PROPERTIES
Mandatory Site-Visit Location: N/A	Bid Opening Location: City of Ft. Pierce Purchasing Division Room 101 100 North U.S. #1, 1st Floor Ft. Pierce, Florida 34950
Bid Due Date & Time: 3:00 PM, TUESDAY, APRIL 27, 2021	If you need any reasonable accommodation for any type of disability in order to participate in this procurement, please contact this department as soon as possible.
Bidder Name: Brenda V. Smith / John D. Bess Mailing Address: 5525 16th Street, NW Washington, DC 20011	*I hereby certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a bid for the same materials, supplies or equipment, and is in all respects fair and without collusion or fraud. I agree to abide by all conditions of this bid and certify that I am authorized to sign this bid for the bidder.* x Brenda V. Smith Authorized Signature (Manual)
City, State, Zip Code: Washington, DC 20011	Typed or Printed Name: Brenda V. Smith / John D. Bess
Type of Entity (Select one): Corporation _____ Partnership _____ ~~Proprietorship~~ Private X	Title:
Incorporated in the State of: Year:	Delivery in _____ days, ARO
Phone Number: 772-480-1500	Payment Terms: Net 30 Days
Fax Number: -	FEIN or SS Number: 264-21-6008
E-Mail Address: jdbess2@aol.com	Local Business: ___Y ___N MWBE: ___Y ___N
Bid Security is attached, when required, in the amount of $ NOT APPLICABLE F.O.B. DESTINATION	If returning as a "No Bid" state reason:
THIS PAGE MUST BE COMPLETED AND RETURNED WITH YOUR BID	

CITY OF FORT PIERCE
OFFER TO PURCHASE/BID RESPONSE FORM
DISPOSITION OF CITY SURPLUS PROPERTIES
Bid No. 2021-025

Date: April 21, 2021

I/we propose to purchase property located at: **(Check the property proposing to purchase. If proposing to purchase multiple properties, complete a separate Offer to Purchase/Bid Response Form for each).**

X **133 N. 10TH Street – 2409-513-0010-000-9**	_____ **606 N. 14th Street**
_____ **N. 25TH Street – 2408-501-0066-000-6**	_____ **701 N. 14th Street**
_____ **N. 25TH Street – 2408-501-0067-000-3**	_____ **N. 14th Street – 2404-814-0012-000-2**

PROPOSED SUBMITTED BY:

Legal Name (s): Brenda V. Smith / John D. Bess (husband & wife)

Address: 5525 16th Street, NW, Washington, DC 20011

Day-time Phone Number: (202) 722-9057 Mobile Number: (772) 480-1500

Email: bvsmith@wcl.american.edu / jdbess2@aol.com

INTENDED USE

I/we propose to use the property for:

X Residential _____ Commercial _____ Both Commercial & Residential in 2 years

If residential or combination; will the residential unit be your primary residence? X Yes ___ No

If not above, what do you intend to develop the property for: ____ Rental ____ Resale ___ Other

If other, please explain _____

IMPROVEMENTS

In consideration for the City of Fort Pierce transferring the property, I/we propose to make the following improvements. (Provide a detailed description of the project outlining intended use of the property with a description of rehabilitation, renovation, modifications, or new construction):

See ATTACHED page 2.

(*Attach pages as needed*)

Total value of all proposed improvements to the property: $ 200,000.00

Brenda V. Smith

John D. Bess

Attachment: Bid of Brenda V. Smith/John D. Bess

IMPROVEMENTS (Page 2) ..... We propose to make the following improvement.

I am a Fort Pierce native. My parents continue to reside in Fort Pierce. I have enjoyed a second home at 123 N. 10th Street, Fort Pierce, since 1991. With extensive historic focus rehabilitations we have restored our 10th Street home to its fullest historic beauty. The home is listed on the Fort Pierce Registry of Historic Homes. (Attached is a copy of 123 N. 10th Street)

My hope is to return to Fort Pierce, primarily, upon my retirement in two years. My husband, John Bess, retired in 2018, and is already spending extended stays in Fort Pierce.

Our home at 123 N. 10th Street, while cozy and fully functional is too small for our full time living, which now includes extended stays from children and grandchildren.

The property at 133 N. 10th Street is two lots away from our home at 123 N. 10th Street. If we are successful in acquiring 133, we will re-entertain purchasing the lot at 131 N. 10th, which was offered to purchase previously by the current owner.

With acquisition of 133 N. 10th Street, we will construct a new home more accommodating to our needs. The new construction will be of Cracker Style design consistent with historic Fort Pierce character. **Timeline:** Project will be completed by end of 2023.

REQUIRED INFORMATION (Page 3)

Proof of financial ability: Attached, find:
(1) Copy of my latest Thrift Saving Plan statement. This is a liquid account with immediate access to "cash on hand" **$88, 672.**

(2) Also attached, copy of our monthly checking account statement indicating "cash on hand" **$21,528.26**

Either account can be used to cover our **$13,100**. Bid offer, plus expenses.

(3) Earning Statement 2020, **Total Gross Pay $218.034.97**

We enjoy excellent FICO scores 820 and 790, respectively, and as a tenured law school professor we are able to cover the cost of the proposed project with "cash on hand" or a minimal bank loan. (2) Attached: Earning Statement: Brenda V Smith.

(4) Retirement Saving Account: "cash on hand" **$1,482,926.94**

Brenda V Sm

Josh D Bess 4-21-2021

BID AMOUNT

I/we offer to pay the City of Fort Pierce $ 13,100.00 for the property.

REQUIRED INFORMATION

To be considered complete, the following documentation/information must be submitted. Please indicated if the information is included with this submittal. Only complete bids will be considered.

____ Yes	✓ No	**Large, clear detailed drawings** of the front, side and rear elevations for new construction. For rehab projects, large, clear, detailed photographs of the front, side and rear elevations with changes indicated.
✓ Yes	___ No	**Cost Estimate** improvements by a knowledgeable & experienced third-party professional, e.g. an engineer, architect or experienced contractor. Complex projects should be broken down by cost centers.
✓ Yes	___ No	**Proof of financial ability** to complete the project. Proof may be letter of credit, loan commitment, or proof on cash on hand, or some other form as approved by the City. Grants or special financing must be listed but cannot be counted as proof as financial ability unless a copy of the award notice or other acceptable guarantee is provided.
✓ Yes	___ No	Description of **landscape improvements:** plan drawings may be necessary.
✓ Yes	___ No	**Proof of financial ability** to complete the project. Proof may be letter of credit, loan commitment, or proof on cash on hand, or some other form as approved by the City. Grants or special financing must be listed but cannot be counted as proof as financial ability unless a copy of the award notice or other acceptable guarantee is provided.
✓ Yes	___ No	**Project timeline**

PROOF OF FINANCIAL ABILITY

Proof of financial ability to complete the project in an amount matching the estimated costs. The Bidder shall include proof may be letter of credit, loan commitment, or proof on cash on hand, or some other form as approved by the City.

BIDDER'S ACKNOWLEDGEMENT

The Bidder understands that information contained in this Bid Form is to be relied upon by the City of Fort Pierce in awarding the specified Bid, and such information is warranted by the Bidder to be true. Bidder understands that the City/Agency has the right to verify the information submitted and to seek any additional information relating to the Bidder's qualifications. The discovery of any misstatement, which, in the sole opinion of the City/Agency, materially affects the Bidder's qualifications to perform, shall cause the rejection of the Bid, and if after the award, to cancel the sale of agreement. The Bidder acknowledges that the deed will include a clause stating that the property reverts to the City of Fort Pierce if substantial compliance with the provisions of the proposal is not met according to an agreed upon timeline.

BRENDA V. SMITH

Typed Name

BRENDA V. SMITH
Brenda V. Smith

Bidder of Authorized Representative

April 21, 2021

Date

CITY OF FORT PIERCE BIDDER'S CHECKLIST

This checklist is provided to assist each Bidder in the preparation of their bid response. Included in this checklist are important requirements, which is the responsibility of each Bidder to submit with their response in order to make their response fully compliant. This checklist is only a guideline~ it is the responsibility of each Bidder to read and comply with the Invitation to Bid in its entirety.

Check "Yes" or "No" to each of the following:	**YES**	**NO**
Is Invitation to Bid cover page (page 1) completed, signed and attached?	✓	
Is the Bid Form completed to include intended use, attached photographs, project timeline, financial ability, and estimated cost?	✓	
Is a narrative included providing either a) Summary of Developer's experience and examples or b) Narrative from Owner/Occupant regarding interest in this property?	✓	
All prices have been reviewed for mathematical accuracy, all price corrections initialed, and all price extensions and totals thoroughly checked.	✓	
Include proof of proper licensing as stated in proposal documents. **(NOT APPLICABLE).**		
Include proof of proper insurance and if we are selected, agree to meet the City's insurance requirements, as stated in proposal documents **(NOT APPLICABLE).**		
Bid envelope is marked accordingly.	✓	
Is two (2) complete bid package included (one original and one copy) sealed bid, if submitting a hardcopy?		
Is each Addendum (when issued) signed and included?		

PLEASE SIGN AND RETURN WITH PROPOSAL Brenda V Smith / John D. Bess 4-21-2021

Thrift Savings Plan

Your Quarterly Statement for the period 01/01/2021 – 03/31/202

43223327643S PD 001840 14069999 04/21
0009697 01 AV 0.395 01 TR 00038 GFQS7AA1 100000

JOHN D. BESS
5525 16TH STREET NW
WASHINGTON, DC 20011-6822

Beneficiary Designation: No

A Message for You

You must review your account statement carefully and report an errors to us immediately.

Your Personal Rate of Return*

Last 12 Months

41.42%

* You can find rates of return for the TSP funds on tsp.gov.

Here's how the value of your TSP account has changed.

Value on January 1, 2021	**$84,860.50**
Contributions and Additions	$0.00
Withdrawals and Deductions	$0.00
Investment Gain (or Loss)	$3,811.66
Value on March 31, 2021	**$88,672.16**

Your current investment allocations.

ATTACHMENT (1)

(1)

Questions? Visit tsp.go

ThriftLine: 1-877-968-3778
Outside U.S. and Canada: 404-233-440
TDD: 1-877-847-4385
YouTube: youtube.com/tsp4gov
Twitter: @tsp4gov
Facebook: fb.com/tsp4gov

Call the ThriftLine and speak to a Particip Service Representative to correct errors your statement.

John D Bess

citi Citi Priority

March 1 - March 31, 2021

ATTACHMENT (2)

00000049 BB CCC 090 JSW1#CIA AA1 09U 0

00128782 N103

BRENDA V SMITH
JOHN D BESS
5525 16TH ST. NW
WASHINGTON DC 20011-6822

128782 EOLR400V 1076 0530 CFM126 07 210401 PAGE 00001 OF 00006

Citi Priority is a service of Citibank, N.A. The following summary portion of the statement is provided for informational purposes.

Value of Accounts	Last Period	This Period
Citibank Accounts		
Checking		
Checking	39,220.95	21,528.26
Citi Priority Relationship Total	**$39,220.95**	**$21,528.26**

Earnings Summary	This Period	This Year
Citibank Accounts		
Checking		
Checking	0.26	1.12
Citi Priority Relationship Total	**$0.26**	**$1.12**

* To ensure quality service, calls are randomly monitored and may be recorded.

Bank Loans Utilized	Last Period	This Period
Checking Plus Line of Credit	0.00	0.00
Total	**$0.00**	**$0.00**

Bank Interest Expense Summary	This Period	This Year
Checking Plus Line of Credit	0.00	0.00
Total	**$0.00**	**$0.00**

John D Bess
Brenda V. Smith

AMERICAN UNIVERSITY
WASHINGTON, DC

Earnings Statement

	Amt. This Period	Year to Date
Net Pay	$4,820.09	$119,267.30
Advice #	[redacted]	

American University
4400 Massachusetts Avenue
Washington, DC 20016-8054

Period Beginning: 12/1/2020
Period Ending: 12/31/2020
Pay Date: 12/31/2020

Employee: **Ms. Brenda Smith**
5525 16th Street, NW
Washington DC 20011
Employee ID: [redacted]
Position: Sr Assoc Dean Acad Affairs

Federal Withholding Status:	Single
State Withholding Status:	Married
Federal Exemptions:	2
State Exemptions:	20
Add'l Federal Withholding:	$600.00
Add'l State Withholding:	$0.00

Earnings

Earnings Type	Hours	Rate	This Period	Year To Date
Cell Phone Allowance - Stipend	-	-	$55.00	$660.00
Regular Earnings	-	-	-	$149,366.65
Regular Earnings, No Benefits - Stipend	-	-	-	$30,666.64
Sabbatical	161.00	-	$9,335.42	$37,341.68
		Total Gross Pay	$9,390.42	$218,034.97

Taxes, Benefits and Other Deductions

(3)

Brenda V. Smith



(4)

myBenefits — Retirement

American University Defined Contribution Retirement Plan

BRENDA SMITH
5525 16TH ST NW
WASHINGTON, DC 20011-6822

Retirement Savings Statement

☎ Customer Service: (800) 343-0860
Fidelity Brokerage Services LLC
900 Salem Street, Smithfield, RI 02917

Your Account Summary

Statement Period: 01/01/2021 to 04/20/2021

Beginning Balance	**$1,359,517.31**
Employee Contributions	$7,356.32
Change in Account Value	$116,053.31
Ending Balance	**$1,482,926.94**
Additional Information	
Dividends & Interest	$18,892.93

Your Personal Rate of Return

This Period	**8.5%**

Your Personal Rate of Return is calculated with a time-weighted formula, widely used by financial analysts to calculate investment earnings. It reflects the results of your investment selections as well as any activity in the plan account(s) shown. There are other Personal Rate of Return formulas used that may yield different results. Remember that past performance is no guarantee of future results.

Gelencia Carter

From: jdbess@aol.com
Sent: Tuesday, June 22, 2021 10:29 AM
To: Gelencia Carter
Cc: bvsmith@wcl.american.edu
Subject: Smith.Bess Bid No 2021.025 Evaluation Phase Additional Information
Attachments: SmithBessBid2021.AdditionalInfo.pdf

SECURITY WARNING: This email originated outside of the City of Fort Pierce systems. Please use caution when clicking links or opening attachments. For questions or concerns please contact IT immediately. .

Dear Ms. Carter,

Attached find our signed Acceptance of the extension request, along with additional detail of our intended use of the property at 133 North 10th Street.

Please confirm receipt of this message.

Thank you,

John D. Bess

THE SUNRISE CITY
FORT PIERCE
Florida
PURCHASING
DEPARTMENT

June 9, 2021

Brenda V. Smith/John D. Bess
5525 16th Street, NW
Washington , D.C. 20011

Email: jdbess@aol.com

RE: Bid No. 2021-025 Disposition of City Surplus Properties
Evaluation Phase – Additional Information

Dear Ms. Smith & Mr. Bess:

The City of Fort Pierce would like to request an additional forty-five (45) days for evaluation of the bid submitted by your firm in response to the referenced invitation to bid. **Bids would be valid through August 10, 2021. Please sign in the space provided below and return to us, as this will constitute your acceptance of this extension.**

Also, to accurately evaluate the bid responses, the following information must be provided for each individual property bid. If you feel that the information below was already addressed in your previous bid response, then no action is needed. If no additional information is provided, your bid will be evaluated based on your previous response. If you have not done so already, please provide all information listed below:

- Narrative:
  - ***Developers*** must provide a summary of their experience in the field of property development and provide evidence that they are fully competent to develop the property. In addition, developers and/or contractors shall provide examples of previous work.
    or…
  - ***Owner/occupants*** should provide narrative describing their interest in the property.
- Intended Use:
  - Describe improvements proposed for this property.
  - Provide large drawings or photographs depicting future use.
  - Provide a cost estimate/total value of improvements.
  - Provide proof of financial ability. This can be in the form of a letter from a financial institution, loan commitment or proof of cash on hand.
  - Describe proposed landscaping.
    Provide estimated timeframe for project completion.

Please provide the additional information response and acceptance of the extension via email to Gelencia Carter, gcarter@cityoffortpierce.com on or before **5:00PM, Tuesday, June 22, 2021.**

Sincerely,

Gelencia Carter

Gelencia Carter, MPA
Purchasing Manager

/gc

ACCEPTED BY:
BRENDA V. SMITH/JOHN D. BESS

Brenda V. Smith
Signature

John D. Bess
Signature

6/16/2021
Date

cc: Shyanne Harnage, Communications & Economic Development Manager

June 20, 2021

RE: Bid No. 2021 Disposition of Surplus Properties
Property: 133 N. 10th Street – 2409-513-0010-000-9

Dear Ms. Carter:

Please find attached the signed acceptance of the extension form, along with an expanded narrative describing our interest in the property.

We present this bid as prospective Owner/occupants of the property located at 133 North 10th Street.

- **Describe improvements proposed for the property.**
  We provided a detailed response to: "improvements proposed of the property" in our earlier submission dated April 21, 2021 (Please see Attachment, page 2, of the Invitation to Bid, and item # 3 of Addendum No. 1.).

  We are expanding the previously provided information to confirm that we will construct a single family dwelling consistent with the historic cracker, architecture of the neighborhood. We have identified a local architect, Michael Menard (Architectonic, Inc.) who is familiar with historic Fort Pierce design vernacular and plan to consult with him regarding the design.

  The new construction will be single story with senior citizen friendly accommodations such as ground level access and exit, larger doorway thresholds, and walk-in or roll in bath/shower. The design will allow us to age in place and remain in the neighborhood with family located nearby at 123 North 10th Street.

  As owners of an historic home in Fort Pierce, we are committed to preserving the character of the neighborhood as evidenced by the historic designation at 123 North 10th Street. See, Resolution No. 02-57, April 15,

2002, signed by Mayor Edward G. Enns and attested by Cassandra Steele, City Clerk. (Attached).

With regards to submitting additional information we believe our earlier responses have already addressed those questions.

Thank you,

John D. Bess

Brenda V. Smith

RESOLUTION NO. 02-57

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF FORT PIERCE, FLORIDA, DESIGNATING 123 NORTH 10TH STREET AS A HISTORIC PROPERTY AND A LOCALLY SIGNIFICANT SITE.

WHEREAS, 123 North 10th Street, Fort Pierce, Florida is a historically significant structure that contributes to the character of the community, its continuing economic vitality, and serves as an inspiration for architects and property owners by setting a high standard of architectural and artistic quality; and

WHEREAS, 123 North 10th Street was built circa 1915 and is representative of both Frame Vernacular and Bungalow architectural styles, popular in the Boom Times in Florida, and exhibits many of the architectural characteristics of residences constructed in Fort Pierce during the early twentieth century; and

WHEREAS, 123 North 10th Street meets the requirements for designation as described in the Historic Preservation Ordinance of the Fort Pierce Code, Section 23-36; and

WHEREAS, the people of Fort Pierce desire to protect and preserve in perpetuity those sites of outstanding historic, archaeological and architectural character; and

WHEREAS, the Historic Preservation Board, on February 25, 2002, recommended this property for designation.

NOW, THEREFORE BE IT RESOLVED by the City Commission of the City of Fort Pierce, Florida, that 123 North 10th Street be designated as a Historic Property and a Locally Significant Site pursuant to the Fort Pierce Historic Preservation Ordinance (Chapter 23 of the Code of Ordinances) and that the 123 North 10th Street property is subject to all rights, privileges and requirements of that ordinance.

IN WITNESS WHEREOF, this Resolution has been duly adopted on this 15th day of April, 2002.

Mayor Edward O. Enns

ATTEST:

Constance Steele, City Clerk

(CITY SEAL)