



DESIGN REVIEW

Property Information

Property address or Location 1521 S Ocean Dr. Fort Pierce, FL 34949
 Parcel ID #(s) 2412-501-0002-000-3
 Project description 11 Residential townhouses - attached additional description in a separate document.

Bliss Fort Pierce LLC

Stephen Cooper, P.E. & Associates, Ir

Property Owner(s)

Applicant/Representative, Title, Company

13780 International Dr S

7450 S Federal Hwy

Street Address

Street Address

Orlando FL 32821

Port St Lucie FL 34951

City State Zip

City State Zip

407-996-1290

772-336-2933

Phone Number

Phone Number

ahmed.hamada@unitedshares.com

ahmed.hamada@unitedshares.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.

Property Owner(s) Signature(s)

APPOINTMENTS ARE REQUIRED FOR APPLICATION SUBMITTALS

CALL 772.467.3737 OR E-MAIL PLANNING_DL@CITYOFFORTPIERCE.COM

For more information, please refer to the website:

<https://www.cityoffortpierce.com/971/Application-Submittal-for-Technical-Rev>



UNITED SHARES
REAL ESTATE

GENERAL NOTES

1. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS NOTED OTHERWISE.
2. ALL DIMENSIONS ARE MEASURED FROM THE FINISHED FLOOR UNLESS NOTED OTHERWISE.
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4. ANY DISCREPANCIES BETWEEN ARCHITECTURAL, STRUCTURAL, MECHANICAL & ELECTRICAL DRAWINGS SHALL BE RESOLVED BY THE ARCHITECT.
5. ALL DIMENSIONS ARE MEASURED FROM THE FINISHED FLOOR UNLESS NOTED OTHERWISE.
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9. ALL DIMENSIONS ARE MEASURED FROM THE FINISHED FLOOR UNLESS NOTED OTHERWISE.
10. ALL DIMENSIONS ARE MEASURED FROM THE FINISHED FLOOR UNLESS NOTED OTHERWISE.

Bliss Residential Development
Hutchinson Island, Florida

1521 S Ocean Dr,
Fort Pierce, FL 34949

Bliss Fort Pierce LLC
United Shares Real Estate
13780 International Dr S
Orlando, FL 32821

Milena Holding Group, Corp.

Stephen Cooper, P.E. & Associates, Inc.
7450 South Federal Highway
Fort St. Luce, Florida 34162

TBD

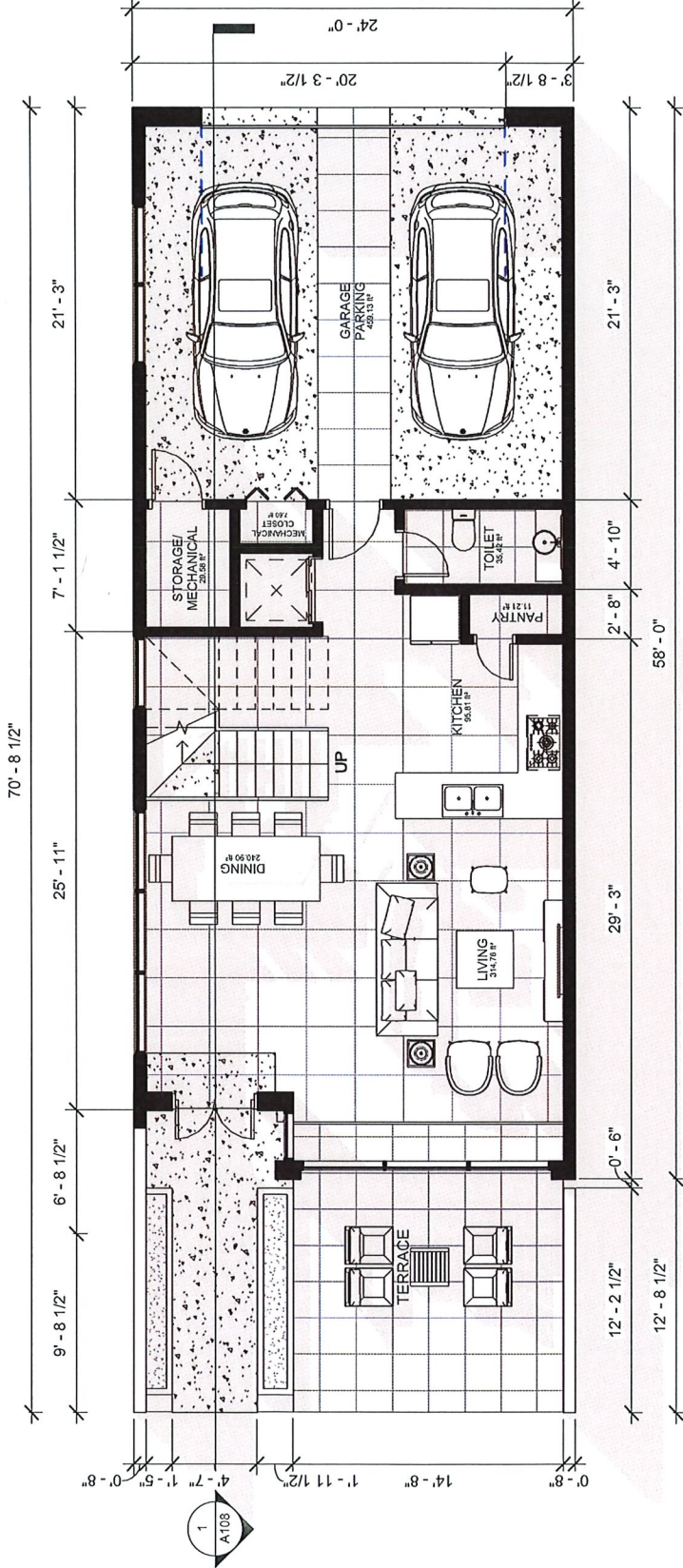
Jaime Rodriguez

Paul Coultas

Jerry Schmitz

| Description | Rev | Date | Author |
|-------------|-----|------|--------|
| | | | |
| | | | |
| | | | |

| TOWNHOUSE MODULE - 2 FIRST FLOOR PLAN | | | |
|--|---------------|--------------|-------------|
| Scale | Drawn By | Checked By | Project No. |
| 1:75 | Jerry Schmitz | Paul Coultas | A101 |
| Revisions | | | |
| | | | |
| | | | |
| | | | |



1ST FLOOR PLAN



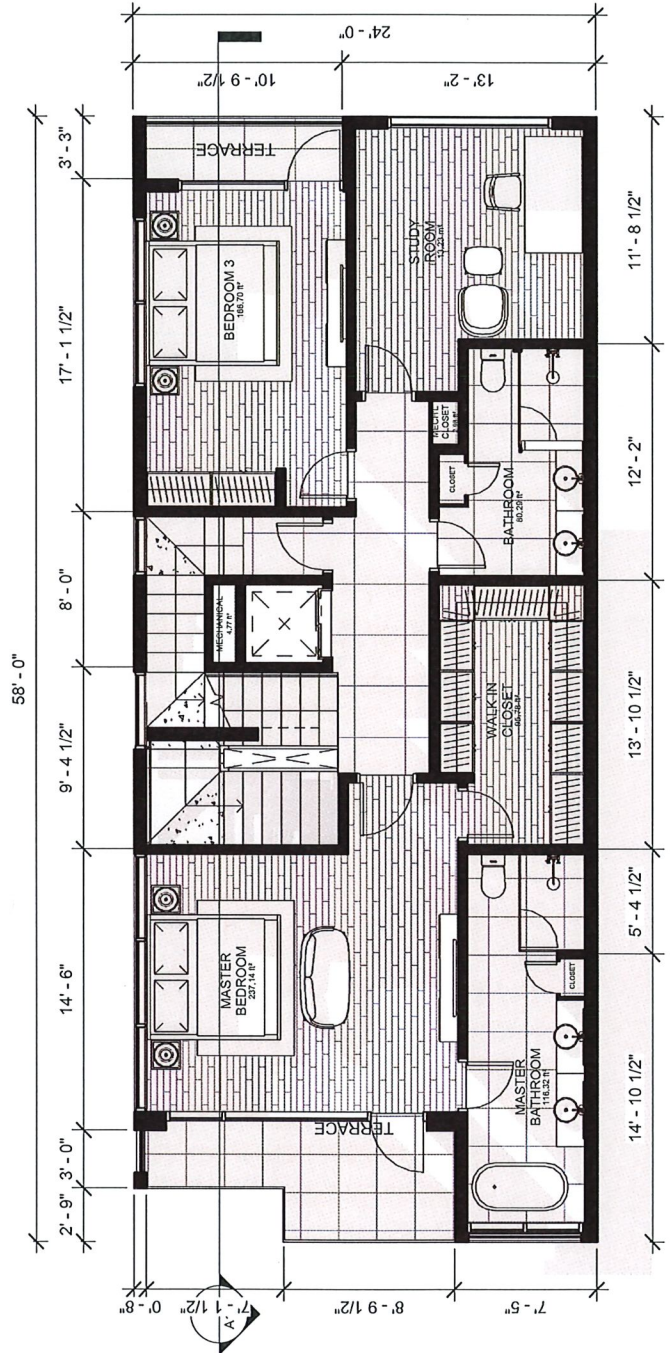
UNITED SHARES
REAL ESTATE

GENERAL NOTES

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2. ALL DIMENSIONS ARE CENTER-TO-CENTER UNLESS NOTED OTHERWISE.
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10. ALL DIMENSIONS ARE CENTER-TO-CENTER UNLESS NOTED OTHERWISE.

| | |
|---------------------|--|
| Project No. | Bliss Residential Development Hutchinson Island, Florida |
| Project Location | 1521 S Ocean Dr. Fort Pierce, FL 34949 |
| Client | Bliss Fort Pierce LLC United Shares Real Estate 13750 International Dr S Orlando, FL 32821 |
| Contractor | Milena's Holding Group, Corp. |
| Architect | Stephen Cooper, P.E. & Associates, Inc. 7450 South Federal Highway Port St. Lucie, Florida 34952 |
| Structural Engineer | TBD |
| Mechanical Engineer | Jaime Rodriguez |
| Electrical Engineer | Paul Gault |
| Interior Designer | Jerry Schmitz |

| | | | |
|-----------------|------|--|-----------|
| Drawing Title | | TOWNHOUSE MODULE - 2 THIRD FLOOR PLAN | |
| Scale | 1:75 | Project No. | 0001 |
| Revision | | Sheet No. | A103 |
| Author | | Project Name | |
| Checker | | Project Location | |
| Designer | | Project Date | JULY 2023 |
| Project Manager | | Project Status | A3 |



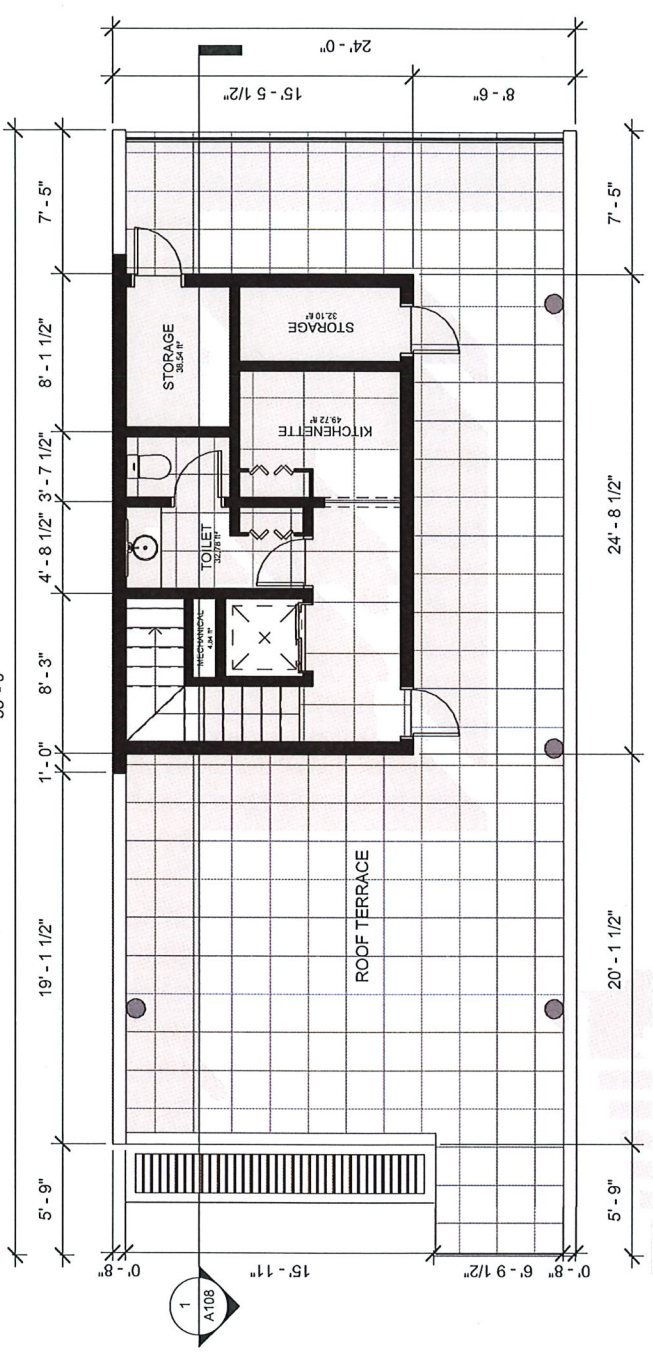
3RD FLOOR PLAN



UNITED SHARES
REAL ESTATE

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5. ALL DIMENSIONS AND LEVELS ARE TO BE COMPAIRED TO THE FINISHED GRADE SURFACE UNLESS OTHERWISE NOTED.
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ROOF FLOOR PLAN

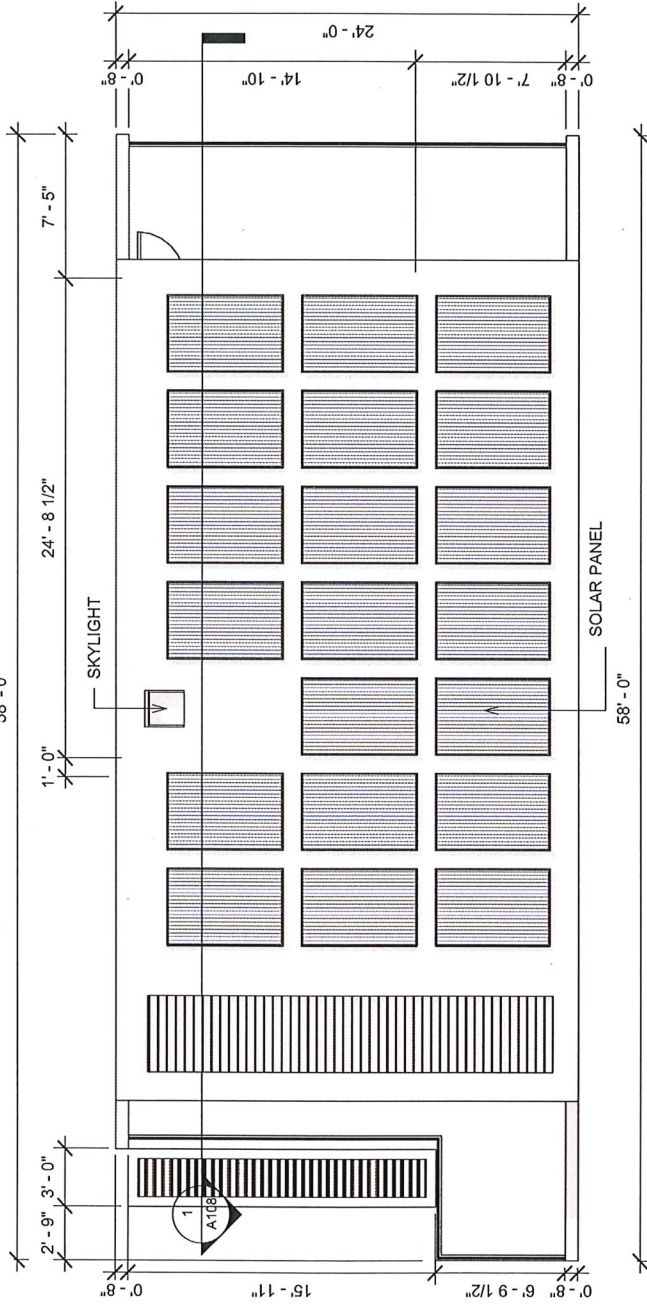
| | |
|--------------------|--|
| Project No. | Bliss Residential Development Hutchinson Island, Florida |
| Project Location | 1521 S Ocean Dr, Fort Pierce, FL 34949 |
| Client | Bid, Fort Place, LLC United Shares Real Estate 13750 International Dr S Orlando, FL 32821 |
| Contractor | Millenia Holding Group, Corp. |
| Design Team | Stephen Cooper, P.E. & Associates, Inc. 7450 South Federal Highway Port St. Lucie, Florida 34952 |
| Project Name | TBD |
| Architect/Engineer | Jaime Rodriguez |
| Contract Number | Paul Coultas |
| Project Manager | Jerry Schmitz |
| Revision | |
| Drawn By | |
| Checked By | |
| Approved By | |
| Scale | 1:75 |
| Project No. | 0001 |
| Sheet No. | A104 |
| Project Name | TOWNHOUSE MODULE-2 FOURTH FLOOR PLAN |
| Project Location | |
| Project No. | |
| Sheet No. | A3 |
| Revision | |
| Date | JULY 2023 |
| Author | |
| Checker | |
| Approver | |



UNITED SHARES
REAL ESTATE

GENERAL NOTES

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4. ANY DIMENSIONS IN PARENTHESIS ARE MEANT TO BE USED AS A CHECK OR TO INDICATE A RANGE OF DIMENSIONS. THE DIMENSIONS IN PARENTHESIS ARE MEANT TO BE USED AS A CHECK OR TO INDICATE A RANGE OF DIMENSIONS.
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8. ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS NOTED OTHERWISE.



UPPER ROOF PLAN

| | |
|--|--|
| Project Name | Bliss Residential Development Hudsonian Island, Florida |
| Project Location | 1521 S Ocean Dr, Fort Pierce, FL 34949 |
| Client | Bliss Fort Pierce LLC United Shares Real Estate 13750 International Dr S Orlando, FL 32821 |
| Contractor | Millenia Holding Group, Corp. |
| Design Team | Stephen Cooper, P.E. & Associates, Inc. 7450 South Federal Highway Port St. Lucie, Florida 34952 |
| Project Number | TBD |
| Architect/Engineer | Jaime Rodriguez |
| License Number | Paul Goulas |
| Project Manager | Jerry Schmitz |
| Revision | |
| Description | |
| Rev | Date |
| <p>0001</p> | |
| <p>TOWNHOUSE MODULE-2 FIFTH FLOOR PLAN</p> | |
| Scale | 1:75 |
| Project No. | 0001 |
| Sheet No. | A105 |
| Revision | |



UNITED SHARES
REAL ESTATE

GENERAL NOTES

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE INTERNATIONAL BUILDING CODES, AS APPLICABLE TO THE JURISDICTION OF THE PROJECT, AND SHALL BE CORRECTED TO REFLECT ANY CHANGES TO THE CODES SINCE THE DATE OF THE LAST EDITION.
- 2. ALL DIMENSIONS SHOWN ON THIS DRAWING SHALL BE UNLESS NOTED OTHERWISE. DIMENSIONS SHALL BE GIVEN TO THE FACE UNLESS NOTED OTHERWISE.
- 3. ALL DIMENSIONS SHALL BE GIVEN TO THE FACE UNLESS NOTED OTHERWISE.
- 4. ANY DIMENSIONS OF MATERIALS, FINISHES, OR WORKMANSHIP SHALL BE AS SHOWN ON THE DRAWING UNLESS NOTED OTHERWISE.
- 5. ALL DIMENSIONS SHALL BE GIVEN TO THE FACE UNLESS NOTED OTHERWISE.
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- 7. ALL DIMENSIONS SHALL BE GIVEN TO THE FACE UNLESS NOTED OTHERWISE.
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Hudson Island, Florida

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Stephen Cooper, P.E. & Associates, Inc.
7450 South Federal Highway
Port St. Lucie, Florida 34952

TBD

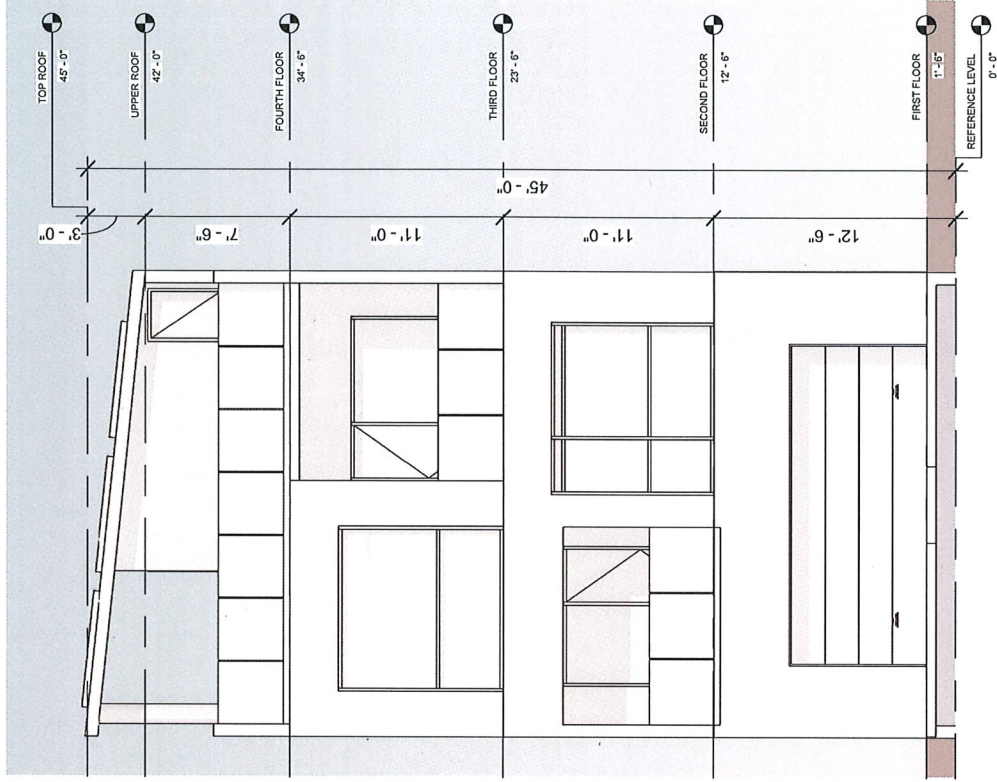
Jaime Rodriguez

Paul Goulas

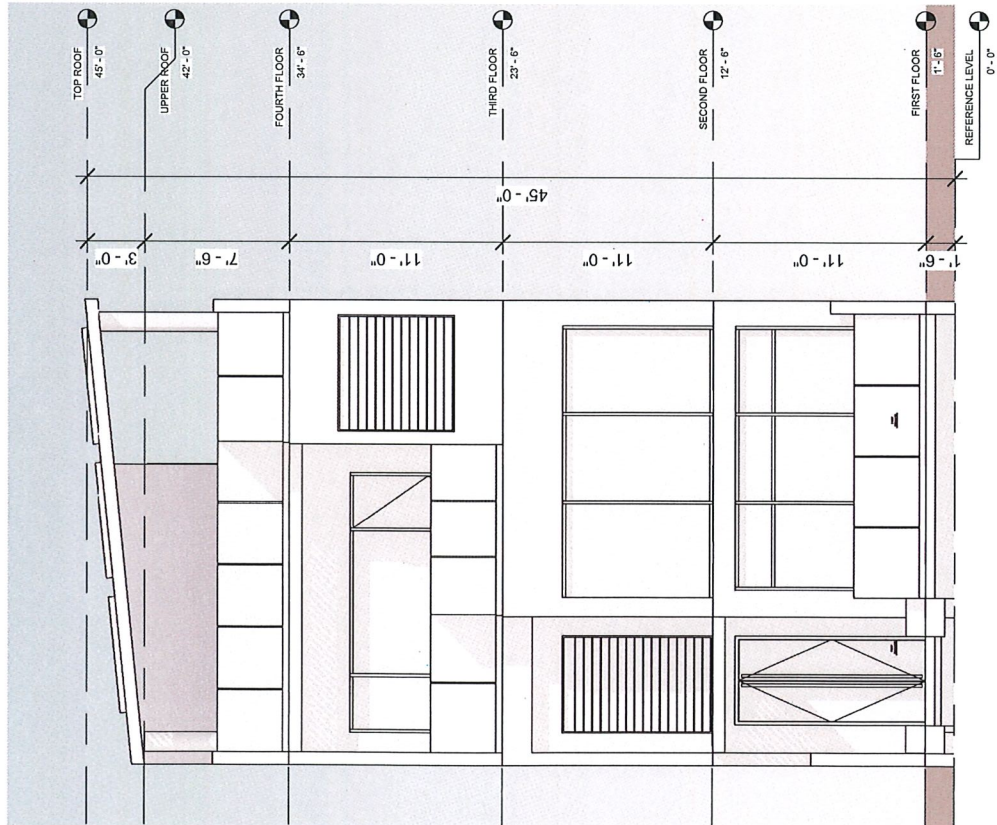
Jerry Schmitz

| Rev | Description | Date | Author |
|-----|-------------|------|--------|
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|--|---|------------------|------------------|
| Drawing No: 0001 | | Project No: A106 | |
| TOWNHOUSE MODULE 2 FRONT & REAR ELEVATION | | | |
| Scale: 1:75 | Project Name: Bliss Residential Development | Project No: A106 | Sheet No: A3 |
| Date: JULY 2023 | Author: JERRY SCHMITZ | Date: JULY 2023 | Project No: A106 |



REAR ELEVATION



FRONT ELEVATION



UNITED SHARES
REAL ESTATE

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Bliss Residential Development
Hudsonville Island, Florida

1521 S Ocean Dr,
Fort Pierce, FL 34949

Bliss Fort Pierce, LLC
United Shares Real Estate
13750 International Dr S
Orlando, FL 32821

Milena Holding Group, Corp.

Stephen Cooper, P.E. & Associates, Inc.
7450 South Federal Highway
Port St. Lucie, Florida 34952

TBD

Jaime Rodriguez

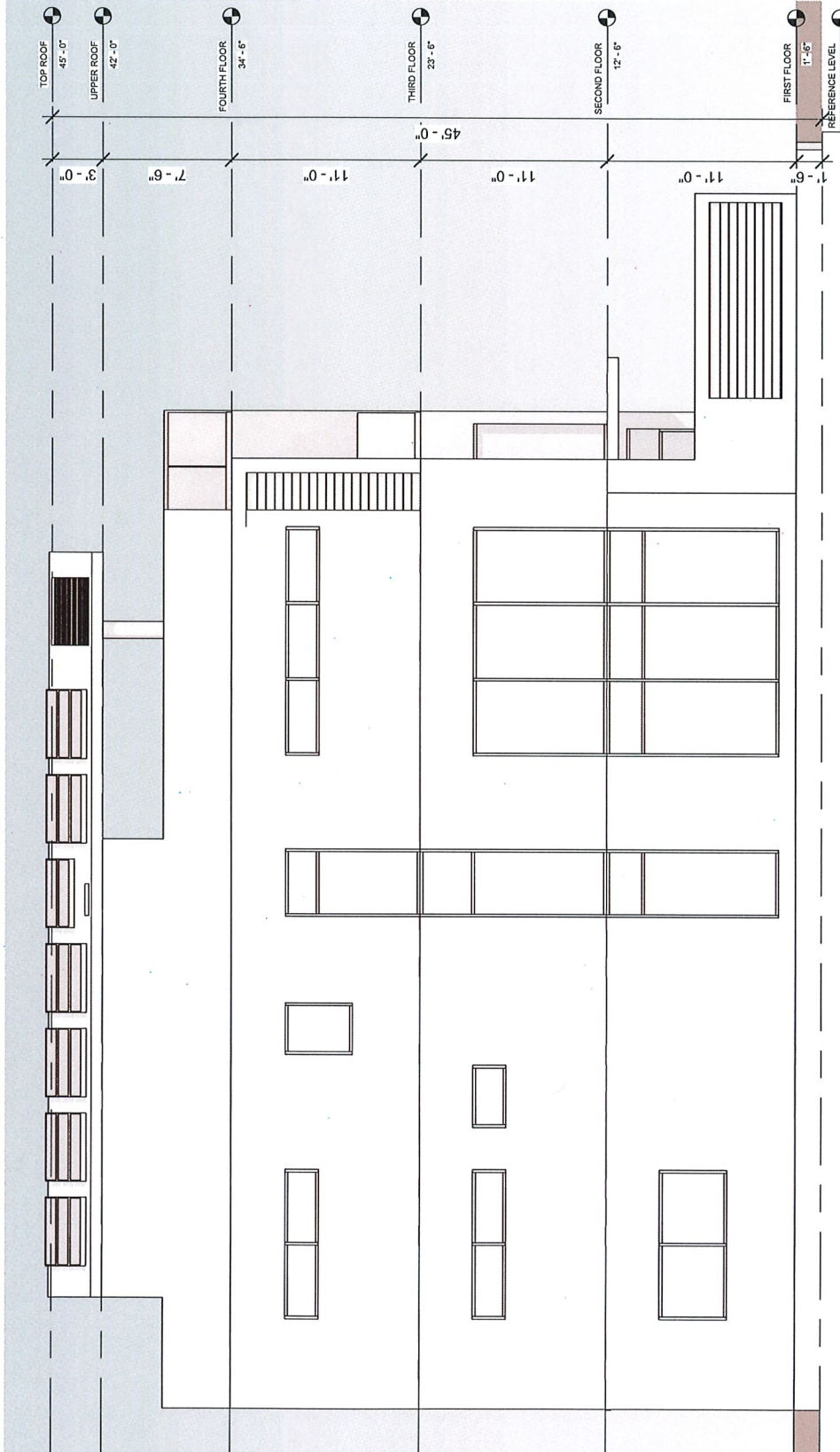
Paul Cobitis

Jerry Schmitz

| Description | Rev | Date | Author |
|-------------|-----|------|--------|
| | | | |
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**TOWNHOUSE MODULE-2
LEFT SIDE ELEVATION**

| | | | | | |
|----------|-------------------------------|--------------|--------------------|-----------|-----------|
| Scale | 1:75 | Project No. | 0001 | Sheet No. | A107 |
| Client | Bliss Residential Development | Project Name | Hudsonville Island | Revision | A3 |
| Drawn By | Jerry Schmitz | Check By | Paul Cobitis | Date | JULY 2023 |



LEFT SIDE ELEVATION

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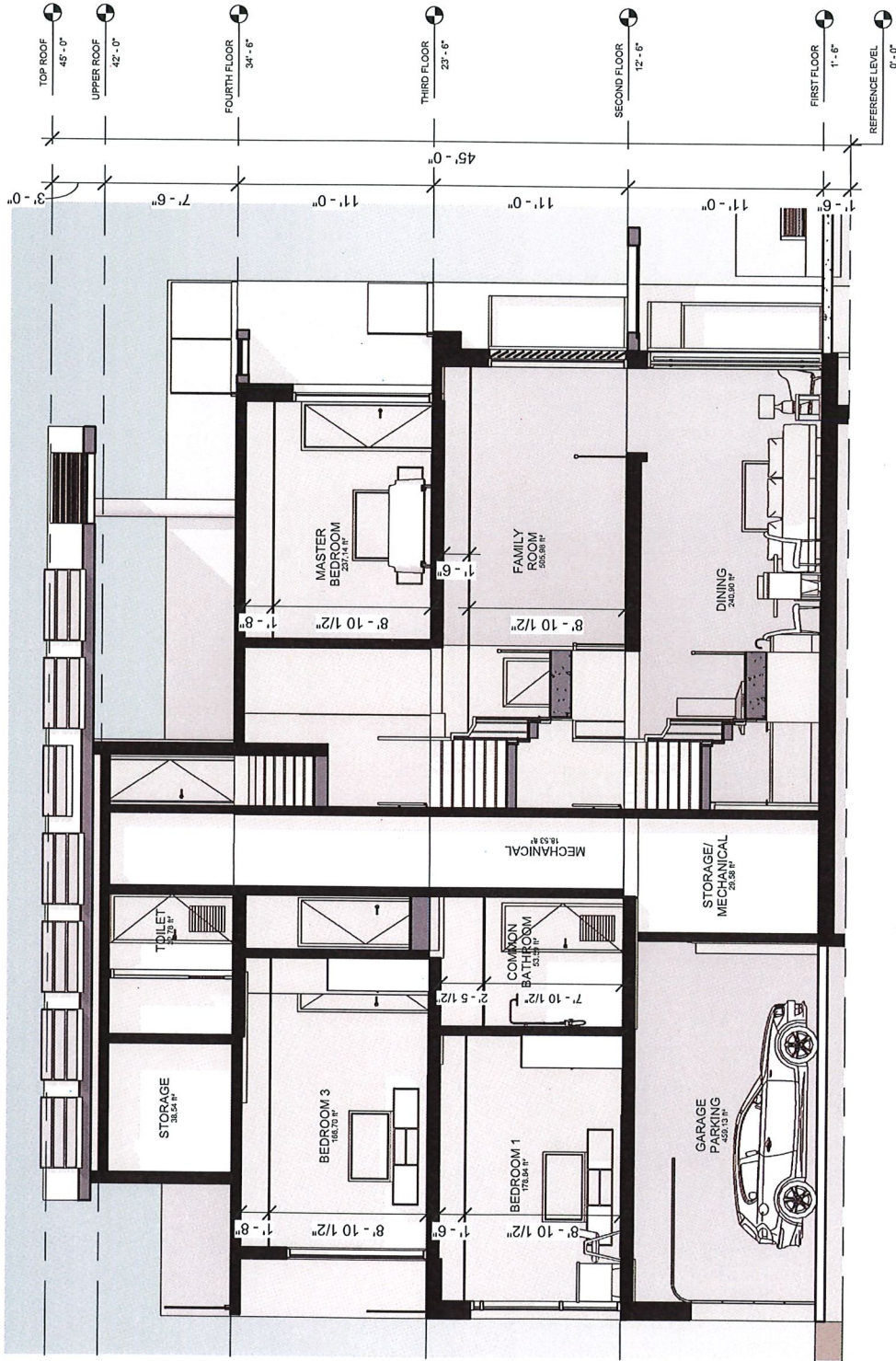
UNITED SHARES
REAL ESTATE

GENERAL NOTES

1. THE DRAWING IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED. IT IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.
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5. ALL DIMENSIONS AND LEVELS ARE TO BE CONFIRMED AND ANY DISCREPANCIES SHALL BE CORRECTED PRIOR TO COMMENCEMENT OF WORK.
6. ALL DIMENSIONS, INCLUDING FINISHES, SHALL BE CONFIRMED BY THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
7. ALL DIMENSIONS AND FINISHES AND MATERIALS WILL BE UPDATED AS PER FUTURE INTERIOR DESIGN PACKAGE.

| | |
|---------------------|--|
| Project No. | Bliss Residential Development Hutchinson Island, Florida |
| Project Location | 1521 S Ocean Dr. Fort Pierce, FL 34949 |
| Client | Bliss East Plans, LLC United Shares Real Estate 12750 International Dr S Orlando, FL 32821 |
| Contractor | Millenia Holding Group, Corp. |
| Architect | Stephen Cooper, P.E. & Associates, Inc. 7450 South Federal Highway Port St. Lucie, Florida 34952 |
| Structural Engineer | TBD |
| Mechanical Engineer | Jaime Rodriguez |
| Electrical Engineer | Paul Goulas |
| Interior Designer | Jerry Schmitz |
| Drawn By | |
| Checked By | |
| Scale | 1:175 |
| Project No. | 0001 |
| Sheet No. | A108 |

LONGITUDINAL SECTION





DEVELOPMENT REVIEW

Property Information

Property address or Location 1521 S Ocean Dr, Fort Pierce, FL 34949
 Parcel ID #(s) 2412-501-0002-000-3
 Project description Proposed 11 Multi-Family Townhomes

Application Type

- Site Plan Conditional Use w/New Construction Conceptual Development Plan
 Minor Amendment Major Amendment

Site Information

Non-Residential: Proposed Sq. Ft.: _____ Site Acreage: _____
Residential: Proposed Units: 11 Proposed Sq. Ft.: 37,400 Site Acreage: 1.252

Bliss Fort Pierce LLC

Property Owner(s)

13780 International Drive South

Street Address

Orlando FL 32821

City State Zip

407-996-1290

Phone Number

ahmed.hamada@unitedshares.com

Email Address

Stephen Cooper, P.E. & Associates, Inc.

Applicant/Representative, Title, Company

7450 S Federal Highway

Street Address

Port St Lucie, FL 34951

City State Zip

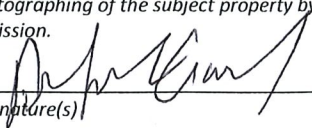
772-336-2933

Phone Number

scooper@scpeinc.com

Email Address

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Property Owner(s) Signature(s) 

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CALL 772.467.3737 OR E-MAIL PLANNING_DL@CITYOFFORTPIERCE.COM

For more information, please refer to the website:

<https://www.cityoffortpierce.com/971/Application-Submittal-for-Technical-Rev>

1.25 Acre Proposed Multifamily

Project Description; The proposed plan includes construction of 11 residential townhome products on the 1.25-acre parcel. Access to be via a proposed two-way alley off the adjacent public roads.

The 11 townhomes are laid out 7 units facing A1A on the east and 4 units together with a swimming pool and a community facility facing Pelican Drive on the west.

The units will have 3 floors and a roof terrace with 2 car garages and driveways sufficient for 2 additional guest parking. 4 additional overflow parkings are provided at the community pool. The design intent is to promote energy efficiency through the use of shading devices and energy efficient materials. Also, the front pedestrian access will promote walkability. The architectural style is contemporary with large windows to allow plenty of daylight into the interior space.

The landscape design exceeds the minimum statutory requirements and specifies drought and salt tolerant materials for water conservation and climate responsiveness.

Water/Sewer would be via connection to available FPUA owned public water and sewer mains adjacent to the site. Details of these connections would be determined at time of construction plans review.

Drainage would be provided via onsite dry retention area(s) designed to address both State and City of Ft. Pierce storm water management criteria for such a development. Project would qualify for a FDEP 10/2 Stormwater GP (verses a SFWMD ERP). Conceptual stormwater calculations are provided at this time.

Traffic – Based on ITE 11th Edition (Code 220 MF Low Rise) , the proposed 11 townhomes is predicted to generate 74 Average Daily Trips (ADT), with 6 PM Peak Hour Trips (4 inbound/2 outbound) and 5 AM Peak Hour Trips (1 inbound/4 outbound). See attached traffic statement.

Solid Waste – The proposed residential project would get trash pickup via curbside.

122. 48750.00
Prepared by and return to:

Robert A. Burson
Attorney at Law
Robert A. Burson, P.A.
Post Office Box 1620
Stuart, FL 34995
772-286-1616
File Number: 23-016
Will Call No.:

Parcel Identification No. 2412-501-0002-000/3

\$ 1,250,000.00

[Space Above This Line For Recording Data]

Warranty Deed

(STATUTORY FORM - SECTION 689.02, F.S.)

This Indenture made this 27th day of June, 2023 between Cambridge Square Investments LLC, a New Jersey limited liability company whose post office address is 235 Lakeview Ave., Clifton, NJ 07011 of the County of Passaic, State of New Jersey, grantor*, and BLISS FORT PIERCE LLC, a Florida limited liability company whose post office address is 13780 International Drive South, Orlando, FL 32821 of the County of Orange, State of Florida, grantee*,

Witnesseth that said grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS (\$10.00) and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained, and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in Saint Lucie County, Florida, to-wit:

All of Block 1, SURFSIDE UNIT ONE, according to the map or plat thereof as recorded in Plat Book 10, Page 17, Public Records of Saint Lucie County, Florida.

Subject to taxes for 2023 and subsequent years; covenants, conditions, restrictions, easements, reservations and limitations of record, if any.

and said grantor does hereby fully warrant the title to said land, and will defend the same against lawful claims of all persons whomsoever.

* "Grantor" and "Grantee" are used for singular or plural, as context requires.

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered in our presence:

Cambridge Square Investments LLC, a New Jersey limited liability company

By: [Signature]
Oday Aboushi, Member

[Signature]

Witness Name: Deborah Shepley
As to Aboushi only

Witness Name: [Signature]
As to Aboushi only

Witness Name: DAVID E. ARBEIT
As to Strauss only

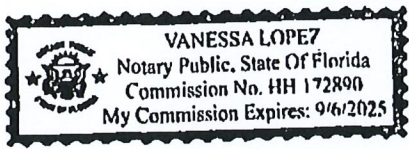
Witness Name: Nancy Jenkins
As to Strauss only

By: [Signature]
Michael Strauss, Member

State of Florida
County of Miami-Dade

The foregoing instrument was acknowledged before me by means of physical presence or online notarization, this 19th day of June, 2023 by Michael Strauss, Member of Cambridge Square Investments LLC, a New Jersey limited liability company, on behalf of the company, who is personally known to me or has produced a driver's license as identification.

[Notary Seal]

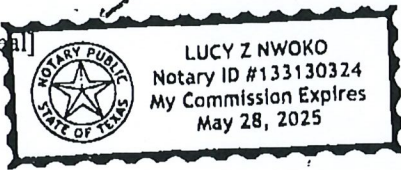


[Signature]
Notary Public
Printed Name: Vanessa Lopez
My Commission Expires: 9-6-2025

State of Texas
County of COLLIN

The foregoing instrument was acknowledged before me by means of physical presence or online notarization, this 21st day of June, 2023 by Oday Aboushi, Member of Cambridge Square Investments LLC, a New Jersey limited liability company, on behalf of the company, who is personally known to me or has produced a driver's license as identification.

[Notary Seal]



[Signature]
Notary Public
Printed Name: LUCY NWOKO
My Commission Expires: MAY 28, 2025

Property Identification

Site Address: 1521 S OCEAN DR
Sec/Town/Range: 12/35S/40E
Parcel ID: 2412-501-0002-000-3
Jurisdiction: Fort Pierce

Use Type: 0000
Account #: 23923
Map ID: 24/12N
Zoning: HI Medium

Ownership

BLISS FORT PIERCE LLC
13780 S International DR
Orlando, FL 32821

Legal Description

SURFSIDE-UNIT ONE- UNDIVIDED BLK 1

Current Values

| | |
|--------------------|-----------|
| Just/Market Value: | \$629,600 |
| Assessed Value: | \$264,880 |
| Exemptions: | \$0 |
| Taxable Value: | \$264,880 |



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): | 1.25 |
| Land Size (SF): | 54,540 |

Building Design Wind Speed

| Occupancy Category | I | II | III |
|--------------------|-----|-----|-----|
| Speed | 140 | 160 | 170 |

Sources/links:

Property Identification

Site Address: 1521 S OCEAN DR
 Sec/Town/Range: 12/35S/40E
 Parcel ID: 2412-501-0002-000-3
 Jurisdiction: Fort Pierce

Use Type: 0000
 Account #: 23923
 Map ID: 24/12N
 Zoning: HI Medium

Ownership

CAMBRIDGE SQUARE
 INVESTMENTS LLC
 235 Lakeview AVE
 Clifton, NJ 07011

Legal Description

SURFSIDE-UNIT ONE- UNDIVIDED BLK 1

Current Values

Just/Market Value: \$629,600
 Assessed Value: \$264,880
 Exemptions: \$0
 Taxable Value: \$264,880



Total Areas

Finished/Under Air (SF): 0
 Gross Sketched Area (SF): 0
 Land Size (acres): 1.25
 Land Size (SF): 54,540

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Building Design Wind Speed

| Occupancy Category | I | II | III |
|--------------------|-----|-----|-----|
| Speed | 140 | 160 | 170 |

Sources/links:

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 |
|--------------|-------------|-----------|------|----------------------|-----------|
| May 12, 2022 | 4830 / 1896 | 0001 | SPWD | 2542-3716 Quebec Inc | \$900,000 |
| May 12, 2022 | 4830 / 1896 | 0001 | SPWD | 11765663 Canada Inc | \$900,000 |
| Nov 27, 2020 | 4518 / 2080 | 0111 | QC | 2425-0722 Qbc Inc | \$100 |
| Nov 27, 2020 | 4518 / 2080 | 0111 | QC | 2425-1258 Qbc Inc | \$100 |
| Nov 27, 2020 | 4518 / 2080 | 0111 | QC | 136681 Canada Inc | \$100 |
| Nov 27, 2020 | 4518 / 2080 | 0111 | QC | 2425-1266 Qbc Inc | \$100 |
| Nov 27, 2020 | 4518 / 2080 | 0111 | QC | 2425-141 Qbc Inc | \$100 |
| Nov 27, 2020 | 4518 / 2080 | 0111 | QC | 135641 Canada Inc | \$100 |
| Feb 1, 1987 | 0534 / 1614 | XX01 | CV | | \$0 |

Building Information (1 of 1)

Finished Area: 0 SF

Gross Sketched Area: 0 SF

Exterior Data

View:

Roof Cover:

Roof Structure:

Building Type:
Grade:
Story Height:

Year Built: N/A
Effective Year: N/A
No. Units: 0

Frame:
Primary Wall:
Secondary Wall:

Interior Data

Bedrooms: 0
Full Baths: 0
Half Baths: 0
A/C %: 0%

Electric:
Heat Type:
Heat Fuel:
Heated %: N/A%

Primary Int Wall:
Avg Hgt/Floor: 0
Primary Floors:
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: \$629,600
Just/Market: \$629,600
Ag Credit: \$0
Save Our Homes or 10% Cap: \$364,720
Assessed: \$264,880
Exemption(s): \$0
Taxable: \$264,880

Current Year Exemption Value Breakdown

Current Year Special Assessment Breakdown

| Start Year | AssessCode | Units | Description | Amount |
|------------|------------|-------|-------------------------------|---------|
| 1999 | 0041 | 1.2 | Fort Pierce Stormwater Charge | \$82.80 |

This does not necessarily represent the total Special Assessments 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 |
|------|-------------|-----------|------------|-----------|
| 2022 | \$629,600 | \$264,880 | \$0 | \$264,880 |
| 2021 | \$240,800 | \$240,800 | \$0 | \$240,800 |
| 2020 | \$594,300 | \$576,855 | \$0 | \$576,855 |
| 2019 | \$594,300 | \$524,414 | \$0 | \$524,414 |

Permits

| Number | Issue Date | Description | Amount | Fee |
|------------|--------------|-------------|---------|---------|
| F96-001110 | Sep 13, 1996 | Roof | \$4,800 | \$4,800 |
| 0800001266 | Aug 28, 2008 | Demolition | \$0 | \$130 |

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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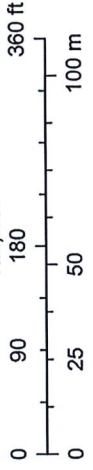
Saint Lucie County Property Appraiser



February 8, 2022

- Search Results
- Comparable Search
- Street Centerline
- Freeway
- Major Arterial
- Minor Arterial
- Collector
- Ramp
- Local
- Other
- Highway

1:2,257



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), Parcel Info:2412-501-0002-000-3

Tree No. Size

- Species
- Cabbage
- Live Oak
- Live Oak
- Strangler Cluster
- Cabbage
- Cabbage
- Cabbage
- Cabbage
- Cabbage
- Live Oak
- Cabbage
- Live Oak
- Live Oak Dbl
- Live Oak
- Live Oak
- Live Oak
- Cabbage
- Cabbage
- Cabbage
- Cabbage
- Strangler Cluster
- Cabbage
- Strangler Cluster
- Cabbage
- Cabbage
- Cabbage
- Cabbage
- Cabbage
- Cabbage
- Cabbage
- Seagrape Cluster
- Seagrape Cluster
- Seagrape Cluster

- 112'
- 28"
- 312"
- 410"
- 514'
- 612'
- 712'
- 813'
- 912'
- 105"
- 1112'
- 126"
- * 1315"
- 148"
- 1513"
- 1610"
- 1715'
- 1816'
- 1914'
- 2013'
- * 2118"
- 2213'
- 237"
- 2413'
- 2517'
- 2613'
- 2714'
- 2817'
- 2914'
- 3013'
- ** 3116"
- ** 3220"
- ** 3322"

- STRANGLER CLUSTER TO BE REMOVED
- SABAL PALMS TO BE RELOCATED TYP.
- OAK TREE TO BE REMOVED
- SEAGRAPE TREES TO BE RELOCATED



Project Team
 LANDSCAPE ARCHITECT
 L&S
 14000 SW 10th St
 Suite 100
 Miami, FL 33186
 305.854.1927 | www.landscapec.com
 Paul Gossard | Designer
 770.24.30.8000 ext. 2005
 770.24.30.8000 ext. 2002
 Civil Engineer
STYPIAN COSOVICH, P.E.
 10000 SW 10th St
 Suite 100
 Miami, FL 33186
 305.854.1927 | www.landscapec.com

MULTIFAMILY RESIDENTIAL
 1521 South Ocean Drive
 City of Fort Pierce, Florida
 Tree Inventory & Disposition Plan

| Date | Del. | Description | Submitted |
|--------|------|-------------|-----------|
| 7/1/23 | PG | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

PAUL G. COLLAS R.L.A.
 FLORIDA REG. # 14889970

Drawn By: PG
 Checked By: PG
 Municipal Project:
 Scale:

SCALE: 1" = 20'
 0 10' 20' 40'

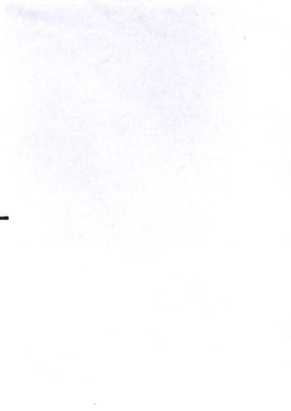
LA-2

ALL TREES TO BE REMOVED OR RELOCATED
 *TOTAL DBH TO BE REMOVED REQUIRING MITIGATION: 33"
 **TOTAL DBH TO BE RELOCATED: 58"
 TOTAL SABAL PALMS TO BE RELOCATED: 19

**BLISS PROJECT
MATERIALS BOARD**



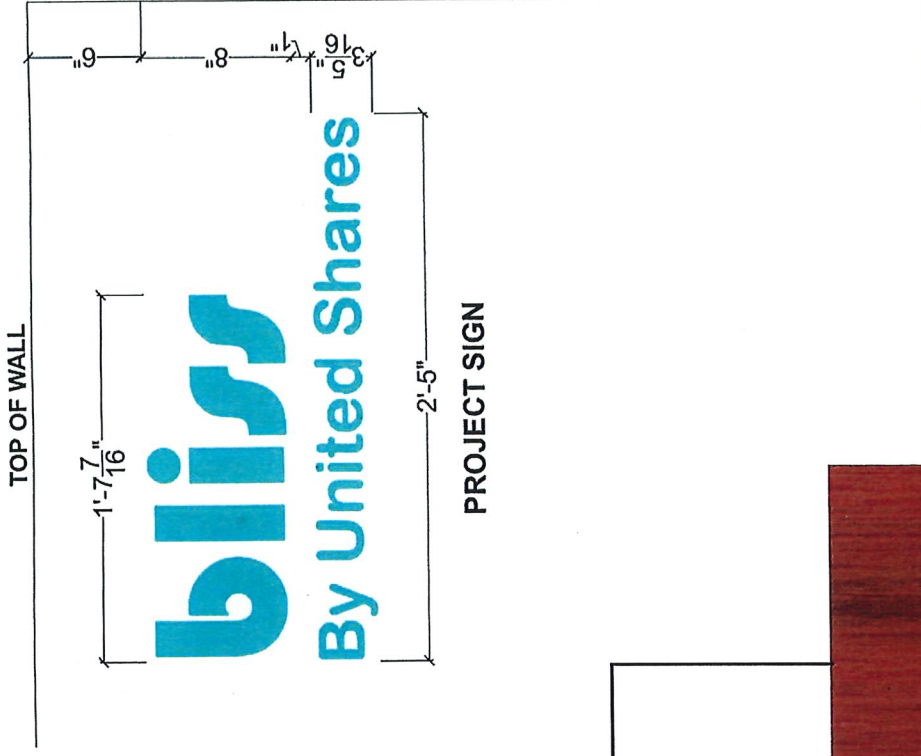
TRAVERTINE WALL
SUPPLIER TBD



EXTERIOR FINISH WHITE PLASTER
SUPPLIER TBD



ENTRANCE DOOR MAHOGONY WOOD
SUPPLIER TBD



Project Team

LANDSCAPE ARCHITECT

LS

Landscapes by Sisco
7005 South Ocean Drive, Suite 100
Fort Pierce, Florida 34947
Phone: 888-888-8888
www.landscapesby-sisco.com

Civil Engineer

STEPHEN COOPER, P.E.
Professional Engineer
1770 S. W. 4th Avenue, Suite 100
Fort Pierce, Florida 34947

MULTIFAMILY RESIDENTIAL
1521 South Ocean Drive
City of Fort Pierce, Florida
Site Lighting Plan

| Date | Rev. | Description | PG | Subtotal |
|---------|------|-------------|----|----------|
| 7-15-23 | PG | Subtotal | | |



Drawn By: PG
Checked By: PG
Municipal Project:
Scale:

PLM CONSULTING & ASSOCIATES, P.A.
FLORIDA REG. # 14469807

Scale: 1" = 20'
0 10' 20' 40'

LT-1

Luminaire Schedule

| Symbol | Qty | Label | MANUFACT | Description | Art. Lum. Lumens | LF | Lum. Watts | Time Hours |
|--------|-----|-------|--------------------|---|------------------|----|------------|------------|
| | 2 | 1A | Language Forms Inc | PROFILE AREA-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044-1045-1046-1047-1048-1049-1050-1051-1052-1053-1054-1055-1056-1057-1058-1059-1060-1061-1062-1063-1064-1065-1066-1067-1068-1069-1070-1071-1072-1073-1074-1075-1076-1077-1078-1079-1080-1081-1082-1083-1084-1085-1086-1087-1088-1089-1090-1091-1092-1093-1094-1095-1096-1097-1098-1099-1100-1101-1102-1103-1104-1105-1106-1107-1108-1109-1110-1111-1112-1113-1114-1115-1116-1117-1118-1119-1120-1121-1122-1123-1124-1125-1126-1127-1128-1129-1130-1131-1132-1133-1134-1135-1136-1137-1138-1139-1140-1141-1142-1143-1144-1145-1146-1147-1148-1149-1150-1151-1152-1153-1154-1155-1156-1157-1158-1159-1160-1161-1162-1163-1164-1165-1166-1167-1168-1169-1170-1171-1172-1173-1174-1175-1176-1177-1178-1179-1180-1181-1182-1183-1184-1185-1186-1187-1188-1189-1190-1191-1192-1193-1194-1195-1196-1197-1198-1199-1200-1201-1202-1203-1204-1205-1206-1207-1208-1209-1210-1211-1212-1213-1214-1215-1216-1217-1218-1219-1220-1221-1222-1223-1224-1225-1226-1227-1228-1229-1230-1231-1232-1233-1234-1235-1236-1237-1238-1239-1240-1241-1242-1243-1244-1245-1246-1247-1248-1249-1250-1251-1252-1253-1254-1255-1256-1257-1258-1259-1260-1261-1262-1263-1264-1265-1266-1267-1268-1269-1270-1271-1272-1273-1274-1275-1276-1277-1278-1279-1280-1281-1282-1283-1284-1285-1286-1287-1288-1289-1290-1291-1292-1293-1294-1295-1296-1297-1298-1299-1300-1301-1302-1303-1304-1305-1306-1307-1308-1309-1310-1311-1312-1313-1314-1315-1316-1317-1318-1319-1320-1321-1322-1323-1324-1325-1326-1327-1328-1329-1330-1331-1332-1333-1334-1335-1336-1337-1338-1339-1340-1341-1342-1343-1344-1345-1346-1347-1348-1349-1350-1351-1352-1353-1354-1355-1356-1357-1358-1359-1360-1361-1362-1363-1364-1365-1366-1367-1368-1369-1370-1371-1372-1373-1374-1375-1376-1377-1378-1379-1380-1381-1382-1383-1384-1385-1386-1387-1388-1389-1390-1391-1392-1393-1394-1395-1396-1397-1398-1399-1400-1401-1402-1403-1404-1405-1406-1407-1408-1409-1410-1411-1412-1413-1414-1415-1416-1417-1418-1419-1420-1421-1422-1423-1424-1425-1426-1427-1428-1429-1430-1431-1432-1433-1434-1435-1436-1437-1438-1439-1440-1441-1442-1443-1444-1445-1446-1447-1448-1449-1450-1451-1452-1453-1454-1455-1456-1457-1458-1459-1460-1461-1462-1463-1464-1465-1466-1467-1468-1469-1470-1471-1472-1473-1474-1475-1476-1477-1478-1479-1480-1481-1482-1483-1484-1485-1486-1487-1488-1489-1490-1491-1492-1493-1494-1495-1496-1497-1498-1499-1500-1501-1502-1503-1504-1505-1506-1507-1508-1509-1510-1511-1512-1513-1514-1515-1516-1517-1518-1519-1520-1521-1522-1523-1524-1525-1526-1527-1528-1529-1530-1531-1532-1533-1534-1535-1536-1537-1538-1539-1540-1541-1542-1543-1544-1545-1546-1547-1548-1549-1550-1551-1552-1553-1554-1555-1556-1557-1558-1559-1560-1561-1562-1563-1564-1565-1566-1567-1568-1569-1570-1571-1572-1573-1574-1575-1576-1577-1578-1579-1580-1581-1582-1583-1584-1585-1586-1587-1588-1589-1590-1591-1592-1593-1594-1595-1596-1597-1598-1599-1600-1601-1602-1603-1604-1605-1606-1607-1608-1609-1610-1611-1612-1613-1614-1615-1616-1617-1618-1619-1620-1621-1622-1623-1624-1625-1626-1627-1628-1629-1630-1631-1632-1633-1634-1635-1636-1637-1638-1639-1640-1641-1642-1643-1644-1645-1646-1647-1648-1649-1650-1651-1652-1653-1654-1655-1656-1657-1658-1659-1660-1661-1662-1663-1664-1665-1666-1667-1668-1669-1670-1671-1672-1673-1674-1675-1676-1677-1678-1679-1680-1681-1682-1683-1684-1685-1686-1687-1688-1689-1690-1691-1692-1693-1694-1695-1696-1697-1698-1699-1700-1701-1702-1703-1704-1705-1706-1707-1708-1709-1710-1711-1712-1713-1714-1715-1716-1717-1718-1719-1720-1721-1722-1723-1724-1725-1726-1727-1728-1729-1730-1731-1732-1733-1734-1735-1736-1737-1738-1739-1740-1741-1742-1743-1744-1745-1746-1747-1748-1749-1750-1751-1752-1753-1754-1755-1756-1757-1758-1759-1760-1761-1762-1763-1764-1765-1766-1767-1768-1769-1770-1771-1772-1773-1774-1775-1776-1777-1778-1779-1780-1781-1782-1783-1784-1785-1786-1787-1788-1789-1790-1791-1792-1793-1794-1795-1796-1797-1798-1799-1800-1801-1802-1803-1804-1805-1806-1807-1808-1809-1810-1811-1812-1813-1814-1815-1816-1817-1818-1819-1820-1821-1822-1823-1824-1825-1826-1827-1828-1829-1830-1831-1832-1833-1834-1835-1836-1837-1838-1839-1840-1841-1842-1843-1844-1845-1846-1847-1848-1849-1850-1851-1852-1853-1854-1855-1856-1857-1858-1859-1860-1861-1862-1863-1864-1865-1866-1867-1868-1869-1870-1871-1872-1873-1874-1875-1876-1877-1878-1879-1880-1881-1882-1883-1884-1885-1886-1887-1888-1889-1890-1891-1892-1893-1894-1895-1896-1897-1898-1899-1900-1901-1902-1903-1904-1905-1906-1907-1908-1909-1910-1911-1912-1913-1914-1915-1916-1917-1918-1919-1920-1921-1922-1923-1924-1925-1926-1927-1928-1929-1930-1931-1932-1933-1934-1935-1936-1937-1938-1939-1940-1941-1942-1943-1944-1945-1946-1947-1948-1949-1950-1951-1952-1953-1954-1955-1956-1957-1958-1959-1960-1961-1962-1963-1964-1965-1966-1967-1968-1969-1970-1971-1972-1973-1974-1975-1976-1977-1978-1979-1980-1981-1982-1983-1984-1985-1986-1987-1988-1989-1990-1991-1992-1993-1994-1995-1996-1997-1998-1999-2000-2001-2002-2003-2004-2005-2006-2007-2008-2009-2010-2011-2012-2013-2014-2015-2016-2017-2018-2019-2020-2021-2022-2023-2024-2025-2026-2027-2028-2029-2030-2031-2032-2033-2034-2035-2036-2037-2038-2039-2040-2041-2042-2043-2044-2045-2046-2047-2048-2049-2050-2051-2052-2053-2054-2055-2056-2057-2058-2059-2060-2061-2062-2063-2064-2065-2066-2067-2068-2069-2070-2071-2072-2073-2074-2075-2076-2077-2078-2079-2080-2081-2082-2083-2084-2085-2086-2087-2088-2089-2090-2091-2092-2093-2094-2095-2096-2097-2098-2099-2100-2101-2102-2103-2104-2105-2106-2107-2108-2109-2110-2111-2112-2113-2114-2115-2116-2117-2118-2119-2120-2121-2122-2123-2124-2125-2126-2127-2128-2129-2130-2131-2132-2133-2134-2135-2136-2137-2138-2139-2140-2141-2142-2143-2144-2145-2146-2147-2148-2149-2150-2151-2152-2153-2154-2155-2156-2157-2158-2159-2160-2161-2162-2163-2164-2165-2166-2167-2168-2169-2170-2171-2172-2173-2174-2175-2176-2177-2178-2179-2180-2181-2182-2183-2184-2185-2186-2187-2188-2189-2190-2191-2192-2193-2194-2195-2196-2197-2198-2199-2200-2201-2202-2203-2204-2205-2206-2207-2208-2209-2210-2211-2212-2213-2214-2215-2216-2217-2218-2219-2220-2221-2222-2223-2224-2225-2226-2227-2228-2229-2230-2231-2232-2233-2234-2235-2236-2237-2238-2239-2240-2241-2242-2243-2244-2245-2246-2247-2248-2249-2250-2251-2252-2253-2254-2255-2256-2257-2258-2259-2260-2261-2262-2263-2264-2265-2266-2267-2268-2269-2270-2271-2272-2273-2274-2275-2276-2277-2278-2279-2280-2281-2282-2283-2284-2285-2286-2287-2288-2289-2290-2291-2292-2293-2294-2295-2296-2297-2298-2299-2300-2301-2302-2303-2304-2305-2306-2307-2308-2309-2310-2311-2312-2313-2314-2315-2316-2317-2318-2319-2320-2321-2322-2323-2324-2325-2326-2327-2328-2329-2330-2331-2332-2333-2334-2335-2336-2337-2338-2339-2340-2341-2342-2343-2344-2345-2346-2347-2348-2349-2350-2351-2352-2353-2354-2355-2356-2357-2358-2359-2360-2361-2362-2363-2364-2365-2366-2367-2368-2369-2370-2371-2372-2373-2374-2375-2376-2377-2378-2379-2380-2381-2382-2383-2384-2385-2386-2387-2388-2389-2390-2391-2392-2393-2394-2395-2396-2397-2398-2399-2400-2401-2402-2403-2404-2405-2406-2407-2408-2409-2410-2411-2412-2413-2414-2415-2416-2417-2418-2419-2420-2421-2422-2423-2424-2425-2426-2427-2428-2429-2430-2431-2432-2433-2434-2435-2436-2437-2438-2439-2440-2441-2442-2443-2444-2445-2446-2447-2448-2449-2450-2451-2452-2453-2454-2455-2456-2457-2458-2459-2460-2461-2462-2463-2464-2465-2466-2467-2468-2469-2470-2471-2472-2473-2474-2475-2476-2477-2478-2479-2480-2481-2482-2483-2484-2485-2486-2487-2488-2489-2490-2491-2492-2493-2494-2495-2496-2497-2498-2499-2500-2501-2502-2503-2504-2505-2506-2507-2508-2509-2510-2511-2512-2513-2514-2515-2516-2517-2518-2519-2520-2521-2522-2523-2524-2525-2526-2527-2528-2529-2530-2531-2532-2533-2534-2535-2536 | | | | |



CONCURRENCY CAPACITY ANALYSIS

I. Site Data:

| | Existing Use | Future Land Use | Zoning |
|-------|--|-----------------|--------|
| North | City Utilities | COS | OS-1 |
| South | Single Family Residential Properties | HIR | R-4A |
| East | Beach Villas on Hutchinson Island Condos | HIR | R-4A |
| West | Single Family Residential Properties | HIR | R-4A |

| | Future Land Use | Zoning Classification | Maximum Intensity Residential: Dwelling Units per Acre Other: Square Footage | Total Acreage | Flood Zone |
|------------|-----------------|-----------------------|--|---------------|------------|
| Current | HIR | R-4A | 8.8 | 1.25 | X |
| **Proposed | | | | | 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 *2,860 gpd |
| Demand Analysis | Maximum PF x Flow = 2.5 x 2,860 gpd = 7,150 gpd |
| Current Zoning/FLU | Total gallons per day 11 du x 2.6 person/du x 100 gpd/person = 2,860 gpd |
| **Proposed Zoning/FLU | Total gallons per day N/A |
| **Change in Demand | Total gallons per day 0 |

* Flow = 11 du x 2.6 person/du x 100 gpd/person = 2,860 gpd

** Peaking Factor = $(18+P^{.5})/(4+P^{.5}) = (18 + 28.6^{.5})/(4 + 28.6^{.5}) = 2.5$
 (P = Population = 2.6 persons/du = 2.6(11 du's) = 28.6

| 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 *2,860 gpd |
| Demand Analysis | Maximum PF x Flow = 2.5 x 2,860 gpd = 7,150 gpd |
| Current Zoning/FLU | Total gallons per day 11 du x 2.6 person/du x 100 gpd/person = 2,860 gpd |
| **Proposed Zoning/FLU | Total gallons per day N/A |
| **Change in Demand | Total gallons per day 0 |

| C. Parks and Recreation (Residential Classifications Only): (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 | 1.25/20 = 0.0625 | N/A | 0 |
| Urban District | 5 acres per 1,000 people | 1.25/5 = 0.25 | N/A | 0 |
| Community | 2.5 acres per 1,000 people | 1.25/2.5 = 0.5 | N/A | 0 |
| Neighborhood | 1.36 acres per 1,000 people | 1.35/1.25 = 0.92 | N/A | 0 |

| D. Public Schools (Residential Classifications Only): | | |
|--|------------------------------------|----------------------|
| Single Family: (du x 0.405 = students/70% K-8/30% High) Students = 11 * 0.207 = 2.28 | | |
| Multi-family: (du x 0.207 = students/70% K-8/30% High) K-8 = 1.59, Highschool = 0.68 | | |
| | K-8 | High |
| School Name | Creative Arts Academy of St. Lucie | Lincoln Palm Academy |
| City | Fort Pierce | Fort Pierce |
| Distance | 5 Miles | 5 Miles |
| Current Zoning/FLU Enrollment Demand | 1.59 | 0.68 |
| **Proposed Zoning/FLU Enrollment Demand | N/A | N/A |
| **Change in Demand | 0 | 0 |

| 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 | 11 units requires 1.47 yards (2 Yards) |
| **Proposed Zoning/FLU | N/A |
| *Change in Demand | 0 |

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)

| NON-RESIDENTIAL DATA | | | | | |
|----------------------|-------|----------------|-------|--------------------------|--------------------------|
| Type(s) specify | Phase | Square footage | Acres | Expecting beginning date | Expected completion date |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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. What is the current use of the structure to be demolished or re-used? _____
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

SCPE

**STEPHEN COOPER, P.E.
& ASSOCIATES, INC.**

~CONSULTING ENGINEER~

• CIVIL ENGINEERING • SITE PLANNING • ENVIRONMENTAL PERMITTING

7450 S. Federal Highway • Port St. Lucie, FL 34952

Phone: 772-336-2933 • Fax: 844-649-1426

FLORIDA CERTIFICATE OF AUTHORIZATION No. 00008856

scooper@sceinc.com

TRAFFIC STATEMENT

for

1.25 AC Multifamily

Based on the proposed 11-unit townhome project, the following anticipated traffic is provided as follows;

MF – 11 Dwelling Units (ITE Code 220 – Low Rise Multifamily Housing)

ADT = 74 Trips Total (37 Inbound/37 Outbound – Average Rate)

PM Peak Hour of Generator = 6 Trips (4 Inbound/2 Outbound)

AM Peak Hour of Generator = 5 Trips (1 Inbound/4 Outbound)

The proposed project is not anticipated to have a significant adverse impact on the adjacent roadway.

Stephen Cooper, P.E. & Associates, Inc.


Stephen Cooper, P.E. #46557
7/24/2023




Florida Department of Transportation

RON DESANTIS GOVERNOR

605 Suwannee Street Tallahassee, FL 32399-0450 June 12, 2023

JARED W. PERDUE, P.E. SECRETARY

THIS PRE-APPLICATION LETTER IS VALID UNTIL – June 12, 2024 THIS LETTER IS NOT A PERMIT APPROVAL

Stephen Cooper, PE SCPE 7450 S Federal Hwy, Port St Lucie, FL 34952

Dear Stephen Cooper, PE: RE: Pre-application Review for Category B Driveway, Pre-application Meeting Date: June 8, 2023 St Lucie County - Ft Pierce; SR A1A; Sec. # 94050000; MP: 14.1; Access Class - 6; Posted Speed - 35; SIS - No; FDOT Ref. Project:

Request: Right-in/right-out access on the south side of Melaleuca Drive (side street), approximately 141 feet from SR A1A / S. Ocean Drive. Right-in/right-out access on the north side of Plover Avenue (side street), approximately 150 feet from SR A1A / S. Ocean Drive. Private sidewalk connection to existing sidewalk along SR A1A / S. Ocean Drive within FDOT right-of-way.

SITE SPECIFIC INFORMATION Project Name & Address: 1.25 Ac Multi-Family – Vacant Property on the SW Corner of A1A and Malaleuca Dr Property Owner: United Shares; Parcel Size: 1.25 Acres Development Size: 11 Townhome Dwelling Units

REQUEST APPROVED

This decision is based on your presentation of the facts, site plan and survey - please see the conditions and comments below. You may choose to review this concept further with the District Access Management Review Committee (AMRC).

Conditions:

- Design team will advise if private sidewalk connection to the existing sidewalk is acceptable within FDOT right-of-way.

Comments:

- All driveways not approved in this letter must be fully removed and the area restored.
• A Drainage Permit is required for any stormwater impacts within FDOT right-of-way (i.e. increased runoff or reduction of existing storage).
• The applicant shall donate property to the Department if right-of-way dedication is required to implement the improvements.
• Dimensions between driveways are measured from the near edge of pavement to near edge of pavement and for median openings are measured from centerline to centerline unless otherwise indicated.

The purpose of this Pre-Application letter is to document the conceptual review of the approximate location of driveway(s) to the State Highway System and to note required improvements, if any. This letter shall be submitted with any further reviews and for permitting. The Department's personnel shall review permit plans for compliance with this letter as well as current Department standards and/or specifications. Final design must consider the existing roadway profile and any impacts to the existing drainage system. Note, this letter does not guarantee permit approval. The permit may be denied based on the review of the submitted engineering plans. Be aware that any approved median openings may be modified (or closed) in the future, at the sole discretion of the Department. For right-of-way dedication requirements go to: https://osp.fdot.gov; click on Statewide Permit News; Scroll down to District 4; Scroll down to Additional Information and Examples and choose Right-of-way Donations/Dedications.

Please contact the Access Management Manager - Tel. # 954-777-4363 or e-mail: D4AccessManagement@dot.state.fl.us with any questions regarding the Pre-Approval Letter.

Carina Harvey

Sincerely, [Signature] 2023.06.12 08:42:09 -

Carina Harvey 04'00' District Access Management Manager

cc: Nesa Harden File: S:\Transportation Operations\Traffic Operations\Access Management\1. Pre-Apps and Variance\2023-06-08\1. 94050000 MP 14.1 SR A1A_1.25 Ac Multi-Family\94050000 MP 14.1 SR A1A_1.25 Ac Multi-Family.docx



Advanced Restoration Ecology

2412-501-0002-000-3

St Lucie County, FL

Environmental Assessment

Prepared For:
The Keys Company

Prepared By:
Drew Gatewood, MS, PWS
2593 NE Roberta St
Jensen Beach, FL 34957
772-242-7200
813-784-8891

©ARE, Inc. February 2022

The environmental assessment report below has been compiled in accordance with the St Lucie County Development Review Division and provisions set forth by the state of Florida. The parcel is listed by the St Lucie County Property Appraiser as Parcel ID number 2412-501-0002-000-3 and is a total of 1.252 acres. The property is located on 1521 S Ocean Dr Fort Pierce, FL. The following report describes the findings of our recent on-site review and database research as it pertains to St Lucie County and the State of Florida.

LAND USE RECORDS

The St Lucie County Property Appraiser's Report lists this property as 0000 Vacant Residential.

SOIL COMPOSITION:

Based on a review of the United State Department of Agriculture's Web Soil Survey database the site's soils are comprised of the following:

Canaveral Sand, 0 to 5% slope – This soil is typically found bordering sloughs and mangrove areas. It is variant in that it is somewhat poorly drained to moderately well drained. Typical vegetation includes saw palmetto, cabbage palm, and magnolia bay trees.

WILDLIFE EVALUATION:

On February 25, 2022, ARE conducted pedestrian transects across 100% of property looking for local, state and federally listed or endangered species present on the site. This survey primarily focused on the presence of gopher tortoise burrows or recent activity. During the pedestrian transects of the property, no gopher tortoise activity was observed on site, nor were any other listed plant or animal species were observed on site during the site visit.

NATIVE HABITAT

The site investigation conducted by ARE, Inc. did not find native habitat on the site. The site has been cleared and consists of open land. Species observed during the site reconnaissance included the following:

Cabbage palm (*Sabal palmetto*) Bahia Grass (*Paspalum notatum*)

WETLAND DELINEATION:

Based on the State definition of a wetland in 62-340 FAC, there are three components: hydric soils, wetland plants, and hydrologic indicators. These factors listed were not present during the site investigation. ARE concludes this property does not include state and federally jurisdictional wetlands on site in its current configuration.

COUNTY REQUIREMENTS

The County will require proof of a completed gopher tortoise survey by a licensed agent. Please submit this document with any applications to use as the needed verification of a 100% gopher tortoise survey has been completed on the site. Per FWC regulations a gopher tortoise survey is good for 90 days, and any clearing must have a valid survey prior to commencement. The County will not authorize/issue any permitting without a current gopher tortoise survey.

CONCLUSION:

Based on County requirements, ARE, Inc. conducted a site investigation throughout the property to survey for the presence of any listed plant or animal species. Gopher Tortoise burrows were not observed on site, and no other State or Federally listed species were observed on the property during the site visit. A 100% gopher tortoise survey of the property was conducted and completed by an FWC licensed gopher tortoise agent during the site investigation. Native habitat was not determined to be on site. It is the professional opinion of ARE, Inc. that there are no State or Federally jurisdictional wetlands on the site as the site's characteristics do not meet the minimum thresholds required for wetland classification.

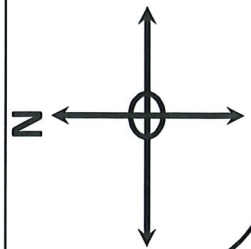


Parcel Info: 2412-501-0002-000-3

| | |
|-----------------|---------------------|
| Owner | 11765663 Canada Inc |
| Site Address | 1521 S OCEAN DR |
| Jurisdiction | Fort Pierce |
| Acres | 1.25 |
| Last Sale Date | 11/27/2020 |
| Last Sale Price | \$100 |

[Zoom to](#) [Dock Measure Report](#)
[Comparable Sales](#)

2/25/2022



Location Map

Map Source: St. Lucie County

**1521 S Ocean Dr
Fort Pierce, FL**



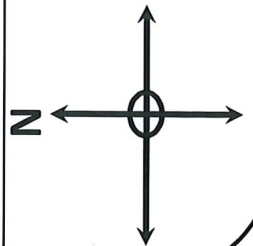
Advanced Restoration Ecology



No GT present

| | |
|---|---------------------|
| Parcel Info: 2412-501-0002-000-3 | |
| Owner | 11765663 Canada Inc |
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| Zoom to Dock Measure Report | |
| Comparable Sales | |

2/25/2022



Species Survey Map

Map Source: St. Lucie County



Advanced Restoration Ecology

**1521 S Ocean Dr
Fort Pierce, FL**

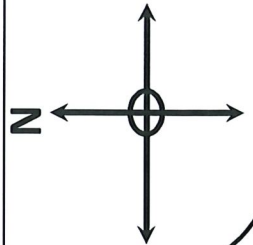
Estimated Acreages

190 Open Land - 1.252



| | |
|---|---------------------|
| Parcel Info: 2412-501-0002-000-3 | |
| Owner | 11765663 Canada Inc |
| Site Address | 1521 S OCEAN DR |
| Jurisdiction | Fort Pierce |
| Acres | 1.25 |
| Last Sale Date | 11/27/2020 |
| Last Sale Price | \$100 |
| Zoom to Dock Measure Report Comparable Sales | |

2/25/2022



FLUCCS

Map Source: St. Lucie County

**1521 S Ocean Dr
Fort Pierce, FL**

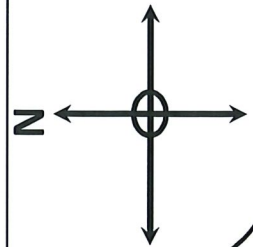


Advanced Restoration Ecology



| Tree No. | Size | Species |
|----------|-------|-------------------|
| 1 | 12' | Cabbage |
| 2 | 28" | Live Oak |
| 3 | 312" | Live Oak |
| 4 | 410" | Strangler Cluster |
| 5 | 514' | Cabbage |
| 6 | 612' | Cabbage |
| 7 | 712' | Cabbage |
| 8 | 813' | Cabbage |
| 9 | 912' | Cabbage |
| 10 | 105" | Live Oak |
| 11 | 1112' | Cabbage |
| 12 | 126" | Live Oak |
| 13 | 1315" | Live Oak Dbl |
| 14 | 148" | Live Oak |
| 15 | 1513" | Live Oak |
| 16 | 1610" | Live Oak |
| 17 | 1715' | Cabbage |
| 18 | 1816' | Cabbage |
| 19 | 1914' | Cabbage |
| 20 | 2013' | Cabbage |
| 21 | 2118" | Strangler Cluster |
| 22 | 2213' | Cabbage |
| 23 | 237" | Strangler Cluster |
| 24 | 2413' | Cabbage |
| 25 | 2517' | Cabbage |
| 26 | 2613' | Cabbage |
| 27 | 2714' | Cabbage |
| 28 | 2817' | Cabbage |
| 29 | 2914' | Cabbage |
| 30 | 3013' | Cabbage |
| 31 | 3116" | Seagrape Cluster |
| 32 | 3220" | Seagrape Cluster |
| 33 | 3322" | Seagrape Cluster |

2/25/2022



Tree Survey Map

**1521 S Ocean Dr
Fort Pierce, FL**

Map Source: St. Lucie County



Advanced Restoration Ecology

St. Lucie County, Florida (FL111)

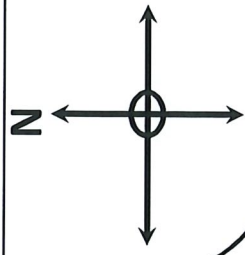
| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|------------------------------------|--|--------------|----------------|
| 10 | Canaveral fine sand, 0 to 5 percent slopes | 1.3 | 100.0% |
| Totals for Area of Interest | | 1.3 | 100.0% |



2/25/2022

Soil Map

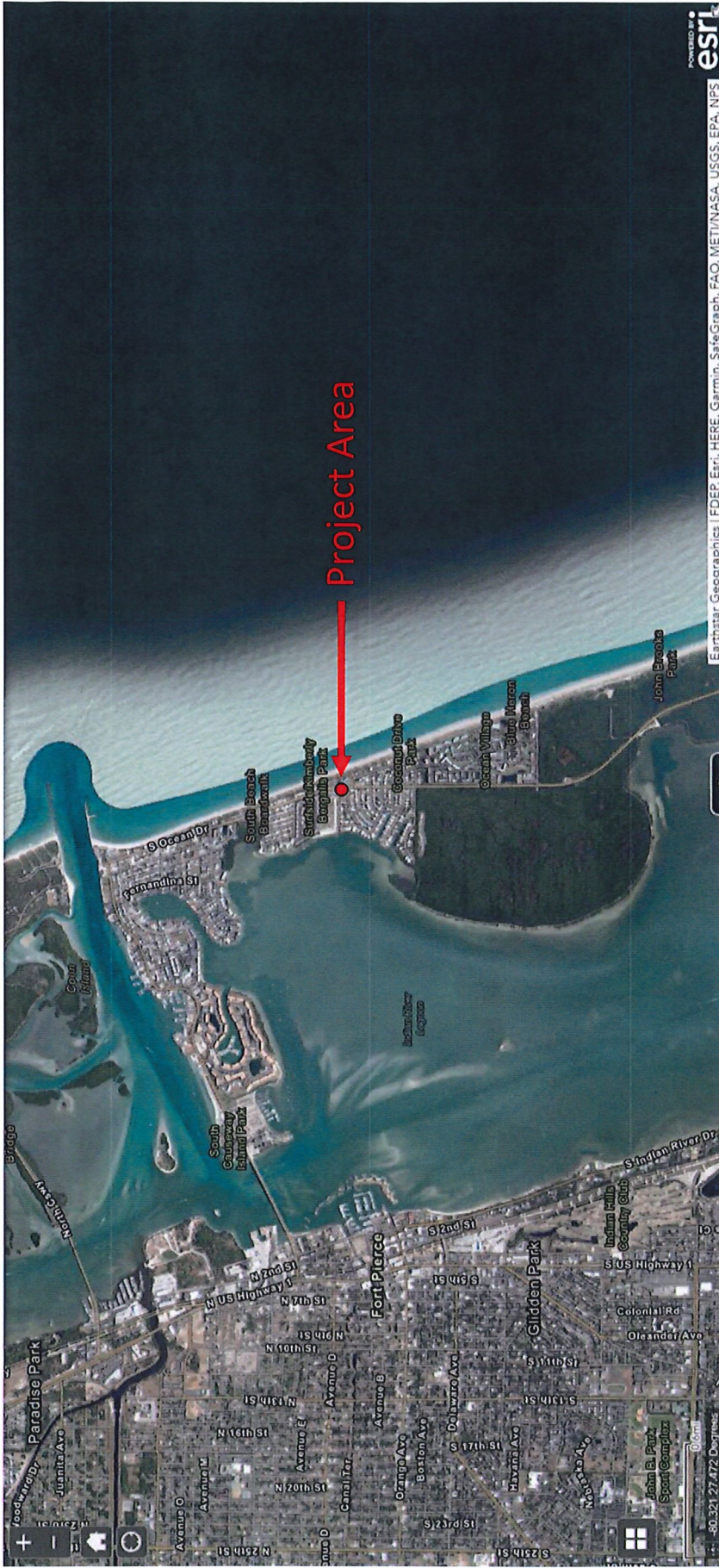
Map Source: Web Soil



**1521 S Ocean Dr
Fort Pierce, FL**



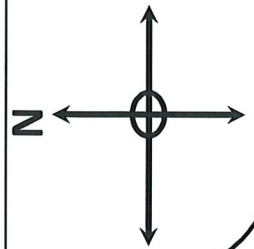
Advanced Restoration Ecology



2/25/2022

Eagle Map

Map Source: FWC



**1521 S Ocean Dr
Fort Pierce, FL**



Advanced Restoration Ecology

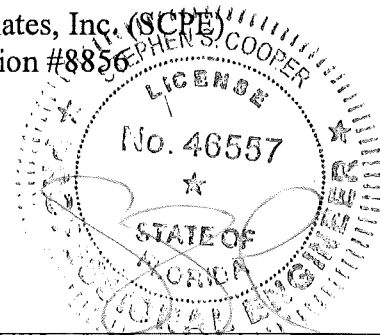
Stormwater Management Calculations

for

1.25 Acre MF Ft Pierce

Fort Pierce, Florida
May, 2023

Prepared By; Stephen Cooper, P.E. & Associates, Inc. (SCPE)
FBPE Certificate of Authorization #8856
7450 South Federal Highway
Port St. Lucie, Florida 34952
(772) 336-2933



Stephen S. Cooper, P.E. #46557

7/6/2023

I. Purpose

The purpose of this report is to provide South Florida Water Management District (SFWMD) and the City of Ft. Pierce with the calculations and documentation necessary to demonstrate the proposed surface water management system designed to serve a proposed residential townhouse development complies with state and local storm water management criteria.

II. Background

The project encompasses an approximately 1.25 acres undeveloped lot adjacent to SR-A1A and Jaycee Park. According to a survey done by Alexander J. Piazza PSM, Inc, the existing site grades between approximately 3.8 ft-NAVD and 5.0 ft-NAVD.

Based on a review of the USDA Soil Survey (see Exhibit A), the site consists of Canaveral sands. A site-specific soil evaluation was completed by KSM Engineering and Testing (see Exhibit B). Based on the results, the anticipated wet season water table is approximately elevation 2.5 ft-NAVD. Excellent percolation was discovered with a horizontal permeability rate of 75 ft-day and a vertical permeability rate at 65.8 ft/day. No confining layer was encountered to at least 13' below ground. Porosity at 30%.

Based on TR-55, soil type and site conditions, the existing Curve Number (CN) is assumed to be 36.

III. Proposed System

The site is proposed surface water management system will consist of site grading and a series of inlets and culverts which direct all stormwater runoff from the development area to a proposed dry retention area. The dry retention will have a bottom elevation at 3.5 ft-NAVD and a top of bank at 5.5 ft-NAVD.

The proposed dry retention area will be capable of retaining the required water quality treatment volume as "dead storage".

The proposed alley access road will be protected by a 10-year, 24-hour storm per City of Ft. Pierce criteria.

The dry retention area will have the ability to retain all storms up to the 25-year, 72-hour event onsite with consideration of percolation.

The City of Ft. Pierce requires analysis of the following storm events;

10 Year, 24 Hour Rainfall = 6" (Roads)

25 Year, 72 Hour Rainfall = 9.5" (Discharge/Perimeter)

100 Year, 72 Hour Rainfall = 12.23" (Habitable Min Floors)

IV. Technical

Drainage Area Breakdown

Total Site Area = 1.25 Acres (100%)

Proposed Building = 0.34 Acres

Proposed Concrete = 0.25 Acres (includes the proposed pool/water feature)

Proposed Asphalt = 0.12 Acres

Total Impervious = 0.71 Acres (56.8%)

Total Pervious = 0.54 Acres (43.2%)

CN (open) = **36 (TR-55; Table 2-2c Brush Good Condition Type A soil)**

CN(Proposed) = .568(98) + .432(36) = 71.2

S = 1000/CN - 10 = 4.0"

Water Quality

The water quality treatment is proposed to be provided within the proposed dry retention system. The required water quality dry retention volume is calculated as follows;

Nutrient Analysis

Nutrient analysis is not applicable to this project as the system proposes 100% retention (zero discharge).

Dry Retention

WQ (required) = 1.5[1" (1.25 Acres) (1'/12")] = 0.16 Ac-Ft*

or

2.5" x % Imp (SFWMD Method);

- a. 1.25 Acres - (0.34 Acres Rooftop) = 0.91 Acres
- b. 0.91 - 0.54 Acres = 0.37 Acres (Water Quality Impervious Area)
- c. 0.37/0.91 = 40.7% Impervious
- d. 2.5" x .407 = 1.02" to be treated
- e. 1.02" (1.25 Acres) (1'/12") = 0.106 Ac-Ft
- f. 1.5(0.106 Ac-Ft) = 0.16 Ac-Ft*
- g. 0.5(0.16 Ac-Ft) = 0.08 Ac-Ft**

*50% add water quality treatment volume required for systems discharging to a sensitive water body

**50% credit for dry retention

WQ (required) = 0.08 Ac-Ft (dry retention)

WQ (provided) = Based on the attached post development stg/sto calc (see Exhibit C); 0.08 Ac-Ft of dry retention dead storage is provided at elevation 4.6-Ft-NAVD

Water Quantity

Based on the soil testing and excellent onsite percolation encountered, the 10-year, 24 hour and the 25 yr, 72-hour storm events were flood routed using ModRet. The results indicate protection of the proposed access road and containment of the 25-year storm within the banks of the proposed dry retention area. The input and output from the ModRet floor routings are included as Exhibit D.

Finished Floors – SFWMD criteria for new construction requires protection of habitable structures. The proposed retention system will have enough storage to protect the finished floors from a 100-year, 72-hour – zero discharge storm event (P = 12.23”). To demonstrate this criterion, the runoff volume generated from a 100-year, 72-hour storm is determined as follows;

$$Q = (P - .2S)^2 / (P + .8S) = (12.23'' - .2(4''))^2 / (12.23'' + .8(4'')) = 8.47''$$
$$\text{Runoff Volume} = 1.25 \text{ Ac } (8.47'') (1'/12'') = 0.882 \text{ Ac-Ft}$$

Based on the attached stage-storage summary sheet, the 100 year, zero discharge stage is approximately 6.8 ft-NAVD (.89 Ac-Ft provided). The lowest proposed habitable finished floor elevation is 7 ft-NAVD, therefore providing 0.2' freeboard from the calculated 100 year, zero discharge stage.

A summary of the flood routings is provided as follows:

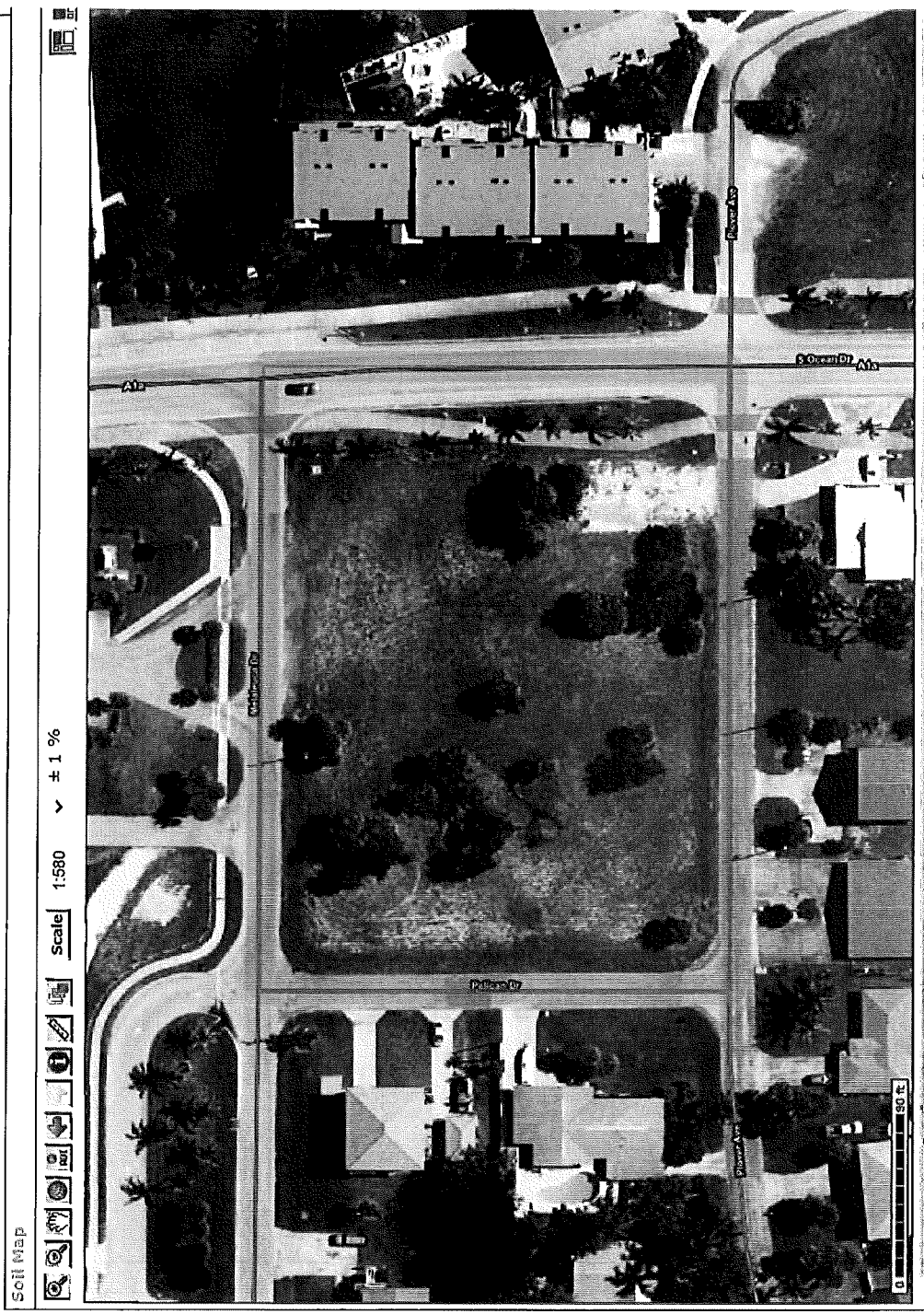
| Storm Type | 10-Year, 24- Hour | 25-Year, 72- Hour | 100-Year, 72- Hour |
|-------------------------------------|------------------------------|------------------------------|-------------------------------|
| Rainfall (Inch) | P=6'' | P=9.5'' | P= 12.23'' |
| Stage Storage (Ft- NAVD) | 4.51 | 5.46 | 6.8 |
| Peak Rate (Cubic Ft/Sec) | 0* | 0* | N/A |

*No surface water discharge, limited to percolation into the ground.

Search

Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|------------------------------------|--|--------------|----------------|
| 10 | Canaveral fine sand, 0 to 5 percent slopes | 2.1 | 100.0% |
| Totals for Area of Interest | | 2.1 | 100.0% |



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

You have zoomed in beyond the scale at which the soil map for this area is intended to be used. Mapping of soils is done at a particular scale. The soil survey that comprise your AOI were mapped at 1:24,000. The design of map units and the level of detail shown in the resulting soil map are dependent on that map 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.

EXHIBIT A

Headquarters
11345 U.S. Highway 1
Sebastian, FL. 32958
Orlando
723 Progress Way
Sanford, FL. 32771



Mailing
P.O. Box 78-1377
Sebastian, FL. 32978
Phone: 772-589-0712
C.A. # 5693
KSMengineering.net

Cambridge Square Investors, LLC
Alex Adorno
235 Lakeview Avenue
Clifton, NJ 07011

May 11, 2022

**Re: Adorno Townhomes
1521 S. Ocean Drive
Fort Pierce, Florida
KSM Project #: 2204421-b&p**

Dear Mr. Adorno:

As requested, KSM Engineering & Testing has performed a subsurface investigation at the referenced site. Presentation of the data gathered during the investigation, together with our geotechnical related opinions, are included in this report.

Site Description:

At the time of drilling, the site was fairly flat and lightly vegetated with a few scattered trees.

Project Description:

Per the client and the preliminary site plan provided by Stephen Cooper P.E. & Associates dated February 2022, it is our understanding that ten (10) three-story townhomes, a single-story clubhouse with a pool and deck, a dry retention pond, and associated parking and driving areas are planned to be constructed on the site. The clubhouse is proposed to be approximately 905 square feet. The stormwater pond is proposed along the western portion of the site.

We assume that loads from the structures will be transferred to the ground by conventional shallow footings. Although we were not furnished with structural loading conditions or a foundation plan, for our Geotechnical analysis, we estimate the maximum loads will be approximately 5,000 to 7,000 lbs per linear foot along the wall foundations. The Structural engineer of record should contact our office if the design loading exceeds our assumptions.

Based on the existing site grades at the time of the investigation, we estimate that up to 2 feet of site fill will be required to reach the desired grades in the building and pavement areas.

The scope of our study consisted of the following:

1. Performed Standard Penetration Test (SPT) borings in the proposed building and stormwater retention areas, a Percolation (PB) test in the proposed stormwater retention area, and Hand Auger (HA) borings with Static Cone Penetrometer Test (SCPT) readings in the proposed pavement areas to estimate the subsoil relative density and visually classify the soils.
2. Measured the observed groundwater level at each boring.
3. Evaluated the existing soil conditions with respect to the proposed construction and provided recommendations for site preparation and foundation design.
4. Obtain Shelby tube soil samples per each soil type encountered in order to perform both a constant head horizontal and vertical permeability tests in our laboratory.
5. Perform engineering calculations to determine the permeability coefficient "K" values along with estimates for the elevation of wet-season and dry-season water tables for the percolation test locations.
6. Prepared this report to document our findings.

Site Investigation:

The site investigation program consisted of performing a total of nine (9) Standard Penetration Test (SPT) borings, one (1) Percolation (PB) test, and four (4) Hand Auger (HA) borings with Static Cone Penetrometer Test (SCPT) readings in the proposed construction areas. The SPT borings were terminated at approximate depths ranging from 20 to 50 feet below existing grade. The PB boring was terminated at a depth of approximately 15 feet below existing grade, and the HA borings were terminated at a depth of approximately 6 feet below existing grade. The approximate locations of the borings are indicated on the attached Location Plan.

The SPT borings were completed in general accordance with procedures described in ASTM D-1586. Also, the groundwater table was allowed to stabilize, and the depth of the groundwater elevation recorded from existing grade.

The relationship of the SCPT readings to the relative density is listed below in Table 1:

| Table 1 - Penetrometer Table | |
|-------------------------------------|------------------------------------|
| Relative Density | Static Penetrometer Reading |
| Very Loose or Soft | <15 |
| Loose | 15-40 |
| Medium Dense | 40-70 |
| Dense | >70 |

Subsurface Condition Summary - The boring logs and SPT "N" values recorded during the SPT borings indicate the subsurface soils in the areas of the proposed structures consist of:

- Deposits of very loose to medium-dense fine-grained sand, fine-grained sand with shell fragments, and fine-grained silty sand were discovered from the surface to an approximate depth of 50 feet below existing grade.
- Within the aforementioned soil deposits, deposits of generally very loose to loose fine-grained silty sand and fine-grained sand with shell fragments were encountered from an approximate depth of 13 feet to about 15 feet below existing grade.

Unsuitable materials, such as organics, were not encountered in the borings performed. Please refer to the attached soil boring logs for specific information relative to the soil description and the SPT/SCPT resistance records.

Observed Groundwater Table - The observed water table was encountered at approximate depths ranging from 2.9 to 4.5 feet below existing grade across the site.

Estimated High Season Water Table – The high season water table is estimated to be approximately 2 feet above the encountered ground water at our boring locations.

The records of the soils encountered, the penetration resistances, and groundwater levels are shown on the attached Boring Logs.

Analytical Laboratory Testing:

The field soil boring logs and recovered soil samples were transported to KSM's office from the project site. Following the completion of the field exploration activities, visual and tactile examination of the soil samples was performed by a geotechnical engineer to identify the engineering classification of the soil samples that were obtained in the field exploration. The visual classification of the samples was performed in general accordance with the current United Soil Classification System (ASTM D 2487). Based on the engineer's review, soil samples were selected to provide data that was used to confirm the interpreted visual classification of the borings and to provide data that was used to estimate pertinent engineering parameters.

Natural Moisture Content – Testing was performed in general accordance with procedures described in ASTM D 2216-19.

Fines Content – Testing was performed in general accordance with procedures described in ASTM D 1140-17.

Atterberg Limits Tests – Testing was performed in general accordance with procedures described in ASTM D 4318-17e1.

The following tests were performed on the soils listed below:

| Table 2 - Analytical Laboratory Testing Results | | | | | | | |
|---|-------------------|--|----------------------|------------|------------------|---------------|------------------|
| Boring | Sample Depth (ft) | Soil Description | % Passing #200 Sieve | Moisture % | Atterberg Limits | | |
| | | | | | Liquid Limit | Plastic Limit | Plasticity Index |
| B-2 | 4 – 6 | Light Brown Sand with Traces of Shell Fragments | 0.8 | 21.9 | -- | -- | -- |
| B-3 | 13 – 15 | Grayish Brown Sand, Slightly Silty with Traces of Shell | 12.9 | 29.0 | NP | NP | NP |
| B-4 | 0 - 1 | Brown Sand with Rock/Asphalt and Traces of Roots | 8.0 | 5.2 | -- | -- | -- |
| B-4 | 13 – 15 | Gray Silty Sand with Shell Fragments | 9.0 | 25.4 | NP | NP | NP |
| B-4 | 33 - 35 | Gray Slightly Silty, Slightly Clayey Sand with Traces of Shell Fragments | 12.3 | 30.0 | -- | -- | -- |
| B-7 | 13 - 15 | Gray Clayey Sand with Shell | 16.3 | 29.9 | 40 | 16 | 24 |

**NP = Non-plastic

Engineering Evaluation and Conclusions:

Based on the information obtained from this site investigation, we are pleased to offer the following evaluation:

Foundation Evaluation - It is KSM's professional opinion that, based on the discovered subsurface conditions, the proposed structures can be supported on conventional concrete, steel reinforced footings, provided that the near surface very loose and loose soils are compacted in accordance with the provided site preparation recommendations.

The following sections provide recommendations for site preparation and foundation design.

Site Preparation:

Site Subgrade Preparation – Due to the near surface very loose and loose soils, KSM recommends that the building site subgrade be prepared for construction of the foundations and at grade floor slabs by improving the in-place density of the soil that will support the structures within the zone where the stress from the structures will be primarily distributed. KSM has assumed that the proposed finished floors of the structures lies above the discovered land surface level. The following earthwork procedure is recommended.

1. The proposed construction area, plus a minimum margin of five feet beyond the proposed limit of construction, should initially be prepared by removing any debris and organic materials including roots and surface vegetation.
2. The exposed surface, created in step 1 above, should be graded level and proofrolled to compact the subgrade. Sufficient passes of the roller should be made to produce an in-place dry density that equals or exceeds 95 percent of the Modified Proctor (ASTM D-1557) maximum dry density to a depth of 2 feet below the proofrolled surface.

3. Upon completion of the proofrolling operation, the exposed surface should be filled to produce the desired line and grades of the building pad. Fill should consist of sandy soil containing less than 10% material that passing through the U.S. Standard no. 200 sieve and is free of debris and organic material. The fill should be placed in level lifts not to exceed 12-inch loose thickness, moisture conditioned, and compacted to attain an in- place dry density that equals or exceeds 95 percent of the Modified Proctor (ASTM D- 1557) maximum dry density.
4. Excavate the compacted pad to the proposed foundation subgrade elevation. The exposed footing subgrade should then be compacted to attain an in-place dry density that equals or exceeds 95 percent of the Modified Proctor (ASTM D-1557) maximum dry density, to depth of 24 inches below the footing subgrade surface. This can be achieved by making several passes with a "Jumping Jack" impact type compactor. Testing should be done to confirm that the specified level of compaction has been achieved.
5. Following the successful completion of the preparation of the foundation subgrade, foundation forms (if used) and steel reinforcement should be placed, and the foundation concrete should be cast, as necessary. Any backfill that is placed adjacent to the foundations, as well as backfill placed in utility trench excavations within the building pad, should be likewise compacted to attain or exceed 95 percent of the Modified Proctor (ASTM D-1557) maximum dry density.

Compaction Equipment - KSM does not recommend using heavy vibratory equipment on this site, due to the proximity of the neighboring structures and the potential that ground vibrations created by the compaction machinery might be transmitted and cause damage to the nearby structures. Accordingly, non-vibratory compaction methods are preferred to perform the recommended earthwork delineated above.

Compaction Testing - In-place density of the compacted soil can be verified using a nuclear density gauge or any other ASTM approved method to determine percent compaction. It is our recommendation that compaction tests in the excavated footings should be conducted prior to placement of any steel or concrete and conducted at every column footing and once for every 100 linear feet of footing trench.

Subgrade and each lift (12 inch loose thickness max) of fill should be tested for compaction at a frequency of no less than one test per 2,500 sf of building area, per lift and one test per 10,000 sf of pavement area, per lift with a minimum of 4 tests in each area prepared. The placement and frequency of testing can be modified at the discretion of the site contractor and the onsite soils technician based on the requirements of the project as stated by the Engineer of Record.

Foundation:

Provided that our recommendations for site preparation are followed, the proposed structures may be supported on conventional concrete, steel reinforced footings designed for an allowable soil bearing pressure of 2,500 pounds per square foot, or less.

With the foundation properly designed and the site properly prepared, we anticipate total settlement on the order of 1 of inch or less and differential settlement of less than 1/2 of an inch over 40 feet of wall. The majority of the settlement should occur during construction. This is based on the assumed loading conditions stated in the "project description" section of this report and a minimum continuous footer width of 24 inches with a minimum embedment of 18 inches. The settlement estimates have assumed that the maximum footing width is 3.5 feet for continuous footings. The Structural engineer of record should notify our office if the design loading or foundations differ from our assumptions so that we may review our settlement calculations and perform additional analysis, if necessary.

Floor Slabs:

A conventional slab-on-grade can be used in the "at grade" portion of the buildings. We recommend the disturbed subgrade below the floor slab be re-compacted to 95 percent of the modified Proctor maximum dry density (ASTM D 1557) prior to placement of the concrete. We recommend that control joints be incorporated in the slab at frequent intervals to control shrinkage cracks.

A moisture barrier is recommended beneath the floor slab to prevent moisture migration from the underlying soil resulting in dampness of the slab.

Pool:

Based on the existing soil conditions, the proposed pool can be designed and constructed using an allowable soil bearing pressure of 2,500 pounds per square foot.

When excavating the pool, if any organic soil or soft material is encountered, these materials/soils should be removed and replaced with ¾ inch stone, so the subgrade becomes firm below the pool bottom. Please note, after placing stone in the bottom of the excavation, granular soil should never be placed on top of the stone.

Backfill material behind the pool shell shall consist of clean granular sand with less than 10 percent "fines" passing the U.S. No. 200 sieve. Backfill material around the pool should be placed in loose lifts not to exceed 12 inches in thickness and compacted, per lift, to no less than 95 percent of its modified dry Proctor value (ASTM D 1557).

Based on the groundwater levels observed at the site and the estimated seasonal wet groundwater conditions, temporary dewatering may be required. Groundwater should be kept below the lowest working area to facilitate proper material placement and compaction is in accordance with this report. Dewatering operations should not be turned off until there is a sufficient amount of load applied to resist buoyancy forces.

Based on the boring performed within the limits of the pool, the discovered soils being excavated from the pool from the surface to an approximate depth of 10 feet below existing grade appear suitable for use as fill material.

Drives and Parking Areas:

We performed four (4) Hand Auger borings with static cone penetrometer readings in the proposed drive and parking areas to evaluate the soils in relation to the proposed pavement. Unsuitable materials were not encountered in the test borings. Penetrometer readings recorded during the investigation indicates the existing soil density is generally medium dense.

Although a comprehensive pavement evaluation was not within the scope of this study, the site may be prepared to support a flexible pavement or rigid concrete pavement. The pavement should be designed for the anticipated loads and frequencies. Refer to Table 3 for the minimum pavement section. The minimum pavement design for standard duty asphalt should include the following:

Clear the roadway area of any surface debris, including vegetation, roots, organic matter and existing pavement. Stumps shall be removed entirely. The cleared areas should be graded level and proof rolled. Any soft yielding areas shall be excavated and replaced with clean compacted fill. Sufficient passes should be made during compaction operations to produce a density no less than 98 percent of its modified dry Proctor value (AASHTO T180) to a depth of two feet. Compaction testing should be performed once every 10,000 square feet or less. Additional fill shall consist of clean granular sand containing less than 10% material passing the U.S. Standard No. 200 mesh sieve and placed in loose lifts not exceeding 12 inches and compacted to the above densities. A minimum of 16 inches of separation should be maintained between the bottom of the base and the high seasonal groundwater table.

Where a concrete pavement section is used, concrete reinforcement should be designed to withstand the design traffic loads and saw cuts constructed for crack control. The concrete should have a minimum compressive strength of 4,000 psi.

Light duty pavement areas are considered car and pickup truck loading conditions and a few medium trucks such as box trucks. Heavy duty pavement areas are considered dumpster pad & apron area and semi-tractor trailer truck loading conditions.

| Table 3 - Minimum Pavement Section | | | |
|---|---|-----------------------------|-------------------|
| Pavement Type | Material | Layer Thickness (in) | |
| | | Standard Duty | Heavy Duty |
| Flexible | Florida DOT Asphalt Type 3 | 1.5 | 2 |
| | Cemented Coquina Rock (LBR of 100)*-or- Limerock* Base Course | 6 | 8 |
| | Stabilized Subgrade (LBR of 40)* | 8 | 12 |
| Rigid | Portland Cement Concrete (4,000 psi) | 5 | 7 |
| | Stabilized Subgrade (LBR of 40)* | 6 | 10 |

* Compacted to minimum 98 percent of its modified dry Proctor value (AASHTO T180)

Pavement should be sloped and designed to allow adequate drainage of surface water. Failure to achieve proper drainage may saturate the subgrade and deteriorate the pavement. The implementation of periodic maintenance should slow the rate of deterioration over time.

Soil Percolation, Estimated Water Tables, and Hydrologic Soil Group:

The tests and observations noted in this section were performed to evaluate the drainage characteristics of the soils for this particular test locations.

Usual Open-Hole Test (in-field) – At the test location, an in-field permeability test was performed in general conformance with the South Florida Water Management District described procedures for the ‘Usual Open-Hole Test’ method. The results of the in-field test can be found in Table 4:

| Table 4 - Usual Open-Hole Test Results | |
|---|---|
| Test Location (See Location Plan) | Hydraulic Conductivity (CFS/SF- Ft Head) |
| P-1 | 9.1 x 10 ⁻⁴ |

NOTES:

- 1) The above hydraulic conductivity values are for a French drain installed to the same depth as the borehole tests. The designer should apply the appropriate factor of safety.
- 2) A hole diameter of 3" was used in the computation of the Hydraulic Conductivity values presented in the above table.

Constant Head Permeability Test (in-lab) - The horizontal and vertical permeability flow rates were determined by excavating a test pit adjacent to the soil profile and obtaining undisturbed shelly tube samples. We then performed constant head permeability tests on the field samples in our laboratory in general accordance with ASTM D 2434. Table 5 indicates the horizontal and vertical flow rates for the test location.

| Table 5 - Constant Head Permeability Results (ASTM D2434) | | | |
|--|--|--|-----------------------------|
| Test Location (See Location Plan) | Horizontal Flow Rate (ft/day) | Vertical Flow Rate (ft/day) | Layer Depth (ft) |
| P-1 | 75.0 | 65.8 | 0.3 - 5 |

Estimated Normal Wet Season & Dry Season Water Table – Table 6 indicates the observed water table and our estimated normal wet season water table and normal dry season water table for the test location. This estimate is based upon our interpretation of existing site conditions and a review of the USDA Soil Survey for St. Lucie County, Florida.

The majority of the site soils are mapped as 10—Canaveral fine sand, 0 to 5 percent slopes, according to the Soil Survey Map of St. Lucie County, Florida.

| Table 6 - Water Table Observations | | | |
|--|-----------------------------|---|---|
| Test Location (See Location Plan) | Observed Water Table | Estimated Wet Season Water Table | Estimated Dry Season Water Table |
| P-1, PB-1 | 3.5 Feet Below Grade | 1.6 Feet Below Grade | 4.6 Feet Below Grade |

Estimated Confining Layer Depth – Tests performed in the location of PB-1 indicate the presence of a confining layer at an approximate depth of 13 feet below existing grade.

Estimated Porosity – Tests performed in the location of PB-1 indicate the subsurface soils have an estimated porosity of approximately 30%.

Hydrologic Soil Group – The soils in the test location can be classified in accordance with Chapter 7, Part 630 of the USDA National Engineering Handbook as follows:

| Table 7 – Hydrologic Soil Group Classification | |
|---|------------------------------|
| Test Location (See Location Plan) | Hydrologic Soil Group |
| P-1 | A/D |

The soils in test location P-1 are part of the dual hydrologic soil group “A/D” due to the relatively low fines content in the soils, the relatively high hydraulic conductivity rates of the, the absence of a water impermeable layer, and the depth to high season water table which is less than 24 inches from the surface.

Note that the Hydrologic Soil Group is a dynamic classification which changes with the conditions of the site at any given moment. Changes in water table elevation as well as changes in the ground elevations of the site can affect the hydrologic soil group for any particular location.

Closure:

This report has been prepared in accordance with generally accepted soil and foundation engineering practices based on the results of the test borings and the assumed loading conditions. No warranties, either expressed or implied, are intended or made. This report does not reflect any variations which may occur between the borings. If variations appear evident during the course of construction, it would be necessary to re-evaluate the recommendations of this project.

Based upon our subsurface investigation at the above-mentioned project location, the reliance of the recommendations presented within this signed and sealed report is predicated on KSM representative's involvement to verify that not only have the soils been prepared following the indicated recommendations, but the foundations are installed in compliance within the parameters indicated. The Structural Engineer of Record is responsible for confirming that the estimated capacities provided are adequate for the anticipated loading. If additional capacity is required, KSM is to be notified so that our recommendations can be amended as required.

Environmental conditions, wetland delineation, karst activity, water quality, and municipal requirements are not a part of this report.

We are pleased to be of assistance to you on this phase of your project. When we may be of further service to you or should you have any questions, please feel free to contact the office.

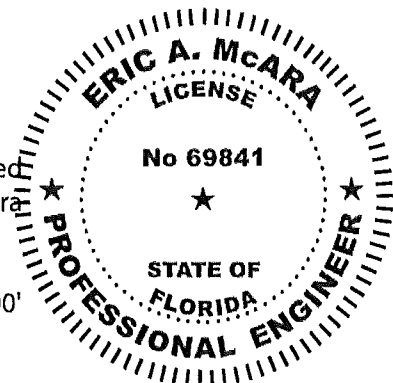
Respectfully,

This item has been electronically signed and sealed by Eric A. McARA, P.E. FL Lic. 69841 on the date stated directly to the right using a digital signaturer.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Digitally signed
by Eric A McARA

Date:
2022.05.12
15:18:44 -04'00'



Robert Maxwell
Robert T. Maxwell, E.I.
Geotechnical Engineer
Florida E.I. No. 1100024249

Eric A. McARA, P.E.
Office Manager
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EAM/cv/RTM

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BORING NUMBER B-1

PAGE 1 OF 2

CLIENT Cambridge Square Investors, LLC PROJECT NAME 1521 S. Ocean Drive
 PROJECT NUMBER 2204421-b&p PROJECT LOCATION Fort Pierce, Florida
 DATE STARTED 5/2/22 COMPLETED 5/2/22 GROUND ELEVATION _____ HOLE SIZE _____
 DRILLING CONTRACTOR _____ GROUND WATER LEVELS:
 DRILLING METHOD Split Spoon Sample ∇ AT TIME OF DRILLING 3.5 ft
 LOGGED BY MM/SF CHECKED BY CCC AT END OF DRILLING ---
 NOTES See Attached Location Plan AFTER DRILLING ---

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (RQD) | BLOW COUNTS (N VALUE) | PENETROMETER | DRY UNIT WT. (pcf) | ▲ SPT N VALUE ▲ | | | |
|------------|-------------|--|--------------------|------------------|-----------------------|--------------|--------------------|-----------------------|----|----|----|
| | | | | | | | | 20 | 40 | 60 | 80 |
| | | | | | | | | PL | MC | LL | |
| | | | | | | | | 20 | 40 | 60 | 80 |
| | | | | | | | | □ FINES CONTENT (%) □ | | | |
| | | | | | | | | 20 | 40 | 60 | 80 |
| 0 | | Brown Sand | | | | | | | | | |
| | | Light Brown Sand | | | | | 25 | | | | |
| | | Light Brown Sand with Traces of Shell | | | | | 30 | | | | |
| | | | | | | | 35 | | | | |
| 5 | | | SS | | 3-4-5 (9) | | | | | | |
| | | | SS | | 6-12-19 (31) | | | | | | |
| | | | SS | | 16-18-17 (35) | | | | | | |
| 10 | | | | | | | | | | | |
| | | Light Gray Sand with Shell Fragments | SS | | 6-6-6 (12) | | | | | | |
| 15 | | | | | | | | | | | |
| | | Light Grayish Brown Sand with Some Shell Fragments | SS | | 10-14-16 (30) | | | | | | |
| 20 | | | | | | | | | | | |
| | | | SS | | 25-23-24 (47) | | | | | | |
| 25 | | | | | | | | | | | |
| | | Gray Sand with Some Shell Fragments | SS | | 18-23-16 (39) | | | | | | |
| 30 | | | | | | | | | | | |
| | | Gray Silty Sand with Shell | SS | | 7-4-2 (6) | | | | | | |
| 35 | | | | | | | | | | | |

(Continued Next Page)

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BORING NUMBER B-1

PAGE 2 OF 2

CLIENT Cambridge Square Investors, LLC

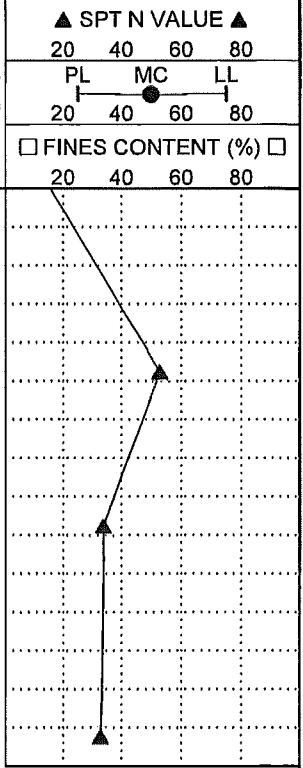
PROJECT NAME 1521 S. Ocean Drive

PROJECT NUMBER 2204421-b&p

PROJECT LOCATION Fort Pierce, Florida

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (RQD) | BLOW COUNTS (N VALUE) | PENETROMETER | DRY UNIT WT. (pcf) | ▲ SPT N VALUE ▲ | | | | | |
|------------|-------------|---|--------------------|------------------|-----------------------|--------------|--------------------|-----------------|----|----|----|--|--|
| | | | | | | | | 20 | 40 | 60 | 80 | | |
| 35 | | Gray Silty Sand with Shell <i>(continued)</i> | | | | | | | | | | | |
| 40 | | Dark Gray Sand with Traces of Shell Fragments | X SS | | 25-28-25 (53) | | | | | | | | |
| 45 | | Gray Sand | X SS | | 11-15-19 (34) | | | | | | | | |
| 50 | | | X SS | | 13-15-18 (33) | | | | | | | | |

Bottom of borehole at 50.0 feet.



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BORING NUMBER B-2

PAGE 1 OF 1

CLIENT Cambridge Square Investors, LLC PROJECT NAME 1521 S. Ocean Drive
 PROJECT NUMBER 2204421-b&p PROJECT LOCATION Fort Pierce, Florida
 DATE STARTED 5/2/22 COMPLETED 5/2/22 GROUND ELEVATION _____ HOLE SIZE _____
 DRILLING CONTRACTOR _____ GROUND WATER LEVELS:
 DRILLING METHOD Split Spoon Sample ∇ AT TIME OF DRILLING 3.8 ft
 LOGGED BY MM/SF CHECKED BY CCC AT END OF DRILLING ---
 NOTES See Attached Location Plan AFTER DRILLING ---

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (RQD) | BLOW COUNTS (N VALUE) | PENETROMETER | DRY UNIT WT. (pcf) | ▲ SPT N VALUE ▲ | | | | | |
|------------|-------------|---|--------------------|------------------|-----------------------|--------------|--------------------|-----------------|----|----|----|--|--|
| | | | | | | | | 20 | 40 | 60 | 80 | | |
| 0 | | Brown Sand | | | | | | | | | | | |
| | | Light Brown Sand with Traces of Shell Fragments | X SS | | 1-1-2 (3) | | | | | | | | |
| | | Light Brown Sand with Some Shell Fragments | X SS | | 2-3-3 (6) | | | | | | | | |
| | | Light Brown Sand with Some Shell Fragments | X SS | | 3-4-3 (7) | | | | | | | | |
| | | Light Brown Sand with Some Shell Fragments | X SS | | 4-6-10 (16) | | | | | | | | |
| | | Light Brown Sand with Some Shell Fragments | X SS | | 6-8-10 (18) | | | | | | | | |
| | | Gray Sand, Slightly Silty with Traces of Shell | X SS | | 4-3-3 (6) | | | | | | | | |
| | | Grayish Brown Sand with Shell Fragments | X SS | | 9-16-16 (32) | | | | | | | | |

Bottom of borehole at 20.0 feet.

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BORING NUMBER B-3

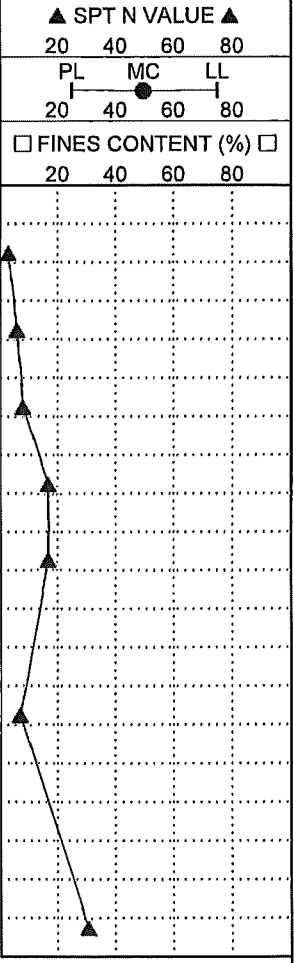
PAGE 1 OF 1

CLIENT Cambridge Square Investors, LLC PROJECT NAME 1521 S. Ocean Drive
 PROJECT NUMBER 2204421-b&p PROJECT LOCATION Fort Pierce, Florida
 DATE STARTED 5/2/22 COMPLETED 5/2/22 GROUND ELEVATION _____ HOLE SIZE _____
 DRILLING CONTRACTOR _____ GROUND WATER LEVELS:
 DRILLING METHOD Split Spoon Sample ▽ AT TIME OF DRILLING 4.00 ft
 LOGGED BY MM/SF CHECKED BY CCC AT END OF DRILLING --
 NOTES See Attached Location Plan AFTER DRILLING --

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| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (RQD) | BLOW COUNTS (N VALUE) | PENETROMETER | DRY UNIT WT. (pcf) | ▲ SPT N VALUE ▲ | | |
|------------|-------------|---|--------------------|------------------|-----------------------|--------------|--------------------|-----------------|----|----|
| | | | | | | | | 20 | 40 | 60 |
| 0 | | Brown Sand | | | | | | | | |
| | | Light Brown Sand with Traces of Shell Fragments | SS | | 1-1-2 (3) | | | | | |
| | | | SS | | 3-3-3 (6) | | | | | |
| | | Light Brown Sand with Some Shell Fragments | SS | | 2-3-5 (8) | | | | | |
| | | | SS | | 4-7-10 (17) | | | | | |
| | | | SS | | 6-7-10 (17) | | | | | |
| | | Grayish Brown Sand, Slightly Silty with Traces of Shell | SS | | 4-3-4 (7) | | | | | |
| | | | SS | | 8-15-16 (31) | | | | | |
| 20 | | Grayish Brown Sand with Shell Fragments | | | | | | | | |

Bottom of borehole at 20.0 feet.





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BORING NUMBER B-4

PAGE 1 OF 2

CLIENT Cambridge Square Investors, LLC
 PROJECT NUMBER 2204421-b&p
 DATE STARTED 5/2/22 COMPLETED 5/2/22
 DRILLING CONTRACTOR _____
 DRILLING METHOD Split Spoon Sample
 LOGGED BY MM/SF CHECKED BY CCC
 NOTES See Attached Location Plan

PROJECT NAME 1521 S. Ocean Drive
 PROJECT LOCATION Fort Pierce, Florida
 GROUND ELEVATION _____ HOLE SIZE _____
 GROUND WATER LEVELS:
 ▽ AT TIME OF DRILLING 4.5 ft
 AT END OF DRILLING ---
 AFTER DRILLING ---

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (RQD) | BLOW COUNTS (N VALUE) | PENETROMETER | DRY UNIT WT. (pcf) | ▲ SPT N VALUE ▲ | | | | | | |
|------------|-------------|--|--------------------|------------------|-----------------------|--------------|--------------------|-----------------|----|----|----|--|--|--|
| | | | | | | | | 20 | 40 | 60 | 80 | | | |
| 0 | | Brown Sand with Rock/Asphalt and Some Roots | | | | | | | | | | | | |
| 0 | | Light Brown Sand with Traces of Shell | | | | | 30 | | | | | | | |
| 5 | | | SS | | 3-4-5 (9) | | | | | | | | | |
| 5 | | | SS | | 12-14-21 (35) | | | | | | | | | |
| 10 | | | SS | | 14-17-20 (37) | | | | | | | | | |
| 15 | | Gray Silty Sand | SS | | 6-2-1 (3) | | | | | | | | | |
| 20 | | Light Gray Sand with Shell Fragments | SS | | 11-13-16 (29) | | | | | | | | | |
| 25 | | | SS | | 20-24-26 (50) | | | | | | | | | |
| 30 | | Gray Sand with Shell | SS | | 12-14-10 (24) | | | | | | | | | |
| 35 | | Gray Slightly Clayey Sand with Traces of Shell Fragments | SS | | 8-7-4 (11) | | | | | | | | | |

(Continued Next Page)



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BORING NUMBER B-4

CLIENT Cambridge Square Investors, LLC

PROJECT NAME 1521 S. Ocean Drive

PROJECT NUMBER 2204421-b&p

PROJECT LOCATION Fort Pierce, Florida

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (RQD) | BLOW COUNTS (N VALUE) | PENETROMETER | DRY UNIT WT. (pcf) | ▲ SPT N VALUE ▲ | | | |
|------------|-------------|--|--------------------|------------------|-----------------------|--------------|--------------------|-----------------------|----|----|----|
| | | | | | | | | 20 | 40 | 60 | 80 |
| | | | | | | | | PL | MC | LL | |
| | | | | | | | | 20 | 40 | 60 | 80 |
| | | | | | | | | □ FINES CONTENT (%) □ | | | |
| | | | | | | | | 20 | 40 | 60 | 80 |
| 35 | | Gray Slightly Clayey Sand with Traces of Shell Fragments <i>(continued)</i> | | | | | | | | | |
| 40 | | Dark Gray Sand with Slight Traces of Shell Fragments | X SS | | 18-23-24 (47) | | | | | | |
| 45 | | | X SS | | 12-15-18 (33) | | | | | | |
| 50 | | | X SS | | 13-15-17 (32) | | | | | | |

Bottom of borehole at 50.0 feet.

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CLIENT Cambridge Square Investors, LLC PROJECT NAME 1521 S. Ocean Drive
 PROJECT NUMBER 2204421-b&p PROJECT LOCATION Fort Pierce, Florida
 DATE STARTED 5/3/22 COMPLETED 5/3/22 GROUND ELEVATION _____ HOLE SIZE _____
 DRILLING CONTRACTOR _____ GROUND WATER LEVELS:
 DRILLING METHOD Split Spoon Sample ▽ AT TIME OF DRILLING 3.9 ft
 LOGGED BY MM/SF CHECKED BY CCC AT END OF DRILLING --
 NOTES See Attached Location Plan AFTER DRILLING --

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (RQD) | BLOW COUNTS (N VALUE) | PENETROMETER | DRY UNIT WT. (pcf) | ▲ SPT N VALUE ▲ | | | | | | |
|------------|-------------|---|--------------------|------------------|-----------------------|--------------|--------------------|-----------------|----|----|----|--|--|--|
| | | | | | | | | 20 | 40 | 60 | 80 | | | |
| 0 | | Brown Sand | | | | | | | | | | | | |
| 0-5 | | Light Brown Sand with Traces of Shell Fragments | X SS | | 1-3-3 (6) | | | | | | | | | |
| 5-6 | | | X SS | | 3-4-4 (8) | | | | | | | | | |
| 6-12 | | | X SS | | 6-12-11 (23) | | | | | | | | | |
| 12-20 | | | X SS | | 9-20-26 (46) | | | | | | | | | |
| 20-21 | | | X SS | | 16-21-24 (45) | | | | | | | | | |
| 15-16 | | Gray Sand with Shell Fragments | X SS | | 2-2-5 (7) | | | | | | | | | |
| 16-20 | | Light Gray Sand with Shell | X SS | | 16-19-22 (41) | | | | | | | | | |

Bottom of borehole at 20.0 feet.

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BORING NUMBER B-6

| | |
|--|--|
| CLIENT <u>Cambridge Square Investors, LLC</u> | PROJECT NAME <u>1521 S. Ocean Drive</u> |
| PROJECT NUMBER <u>2204421-b&p</u> | PROJECT LOCATION <u>Fort Pierce, Florida</u> |
| DATE STARTED <u>5/3/22</u> COMPLETED <u>5/3/22</u> | GROUND ELEVATION _____ HOLE SIZE _____ |
| DRILLING CONTRACTOR _____ | GROUND WATER LEVELS: |
| DRILLING METHOD <u>Split Spoon Sample</u> | ▽ AT TIME OF DRILLING <u>3.7 ft</u> |
| LOGGED BY <u>MM/SF</u> CHECKED BY <u>CCC</u> | AT END OF DRILLING <u>--</u> |
| NOTES <u>See Attached Location Plan</u> | AFTER DRILLING <u>--</u> |

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (RQD) | BLOW COUNTS (N VALUE) | PENETROMETER | DRY UNIT WT. (pcf) | ▲ SPT N VALUE ▲ | | | | | |
|------------|-------------|--|--------------------|------------------|-----------------------|--------------|--------------------|-----------------|----|----|----|--|--|
| | | | | | | | | 20 | 40 | 60 | 80 | | |
| 0 | | Brown Sand | | | | | | | | | | | |
| 1 | | Light Brown Sand with Traces of Shell Fragments ▽ | SS | | 1-2-4 (6) | | | | | | | | |
| 2 | | | SS | | 3-4-5 (9) | | | | | | | | |
| 3 | | | SS | | 5-9-11 (20) | | | | | | | | |
| 4 | | | SS | | 10-14-19 (33) | | | | | | | | |
| 5 | | Gray Sand with Shell Fragments | SS | | 18-21-26 (47) | | | | | | | | |
| 14 | | | SS | | 3-4-4 (8) | | | | | | | | |
| 19 | | | SS | | 15-19-19 (38) | | | | | | | | |
| 20 | | Light Gray Sand with Shell | | | | | | | | | | | |

Bottom of borehole at 20.0 feet.

GEO TECH BH PLOTS - GINT STD US LAB.GDT - 5/6/22 08:24 - K:\KSM FILES\22\204421\SOIL INVESTIGATION\2204421-B&P.GPJ



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BORING NUMBER B-7

PAGE 1 OF 1

CLIENT Cambridge Square Investors, LLC PROJECT NAME 1521 S. Ocean Drive
 PROJECT NUMBER 2204421-b&p PROJECT LOCATION Fort Pierce, Florida
 DATE STARTED 5/3/22 COMPLETED 5/3/22 GROUND ELEVATION _____ HOLE SIZE _____
 DRILLING CONTRACTOR _____ GROUND WATER LEVELS:
 DRILLING METHOD Split Spoon Sample AT TIME OF DRILLING 2.9 ft
 LOGGED BY MM/SF CHECKED BY CCC AT END OF DRILLING ---
 NOTES See Attached Location Plan AFTER DRILLING ---

GEOTECH BH PLOTS - GINT STD US LAB.GDT - 5/16/22 08:24 - K:\KSM FILES\22 DOCS (KSM-SERVER)\2204421\SOIL INVESTIGATION\2204421-B&P.GPJ

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (RQD) | BLOW COUNTS (N VALUE) | PENETROMETER | DRY UNIT WT. (pcf) | ▲ SPT N VALUE ▲ | | | |
|------------|-------------|---|--------------------|------------------|-----------------------|--------------|--------------------|--|----|----|----|
| | | | | | | | | 20 | 40 | 60 | 80 |
| 0 | | Brown Sand | | | | | | PL MC LL 20 40 60 80 | | | |
| 0 - 3 | | Light Brown Sand with Traces of Shell Fragments | SS | | 1-1-2 (3) | | | □ FINES CONTENT (%) □ | | | |
| 3 - 5 | | | SS | | 3-3-5 (8) | | | | | | |
| 5 - 8 | | | SS | | 5-8-12 (20) | | | | | | |
| 8 - 13 | | | SS | | 13-26-23 (49) | | | | | | |
| 13 - 14 | | | SS | | 14-14-11 (25) | | | | | | |
| 14 - 15 | | Gray Clayey Sand with Shell | SS | | 1-1-1 (2) | | | | | | |
| 15 - 20 | | Light Gray Sand with Shell | SS | | 17-21-23 (44) | | | | | | |

Bottom of borehole at 20.0 feet.



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BORING NUMBER B-8

CLIENT Cambridge Square Investors, LLC
 PROJECT NUMBER 2204421-b&p
 DATE STARTED 5/2/22 COMPLETED 5/2/22
 DRILLING CONTRACTOR _____
 DRILLING METHOD Split Spoon Sample
 LOGGED BY MM/SF CHECKED BY CCC
 NOTES See Attached Location Plan

PROJECT NAME 1521 S. Ocean Drive
 PROJECT LOCATION Fort Pierce, Florida
 GROUND ELEVATION _____ HOLE SIZE _____
 GROUND WATER LEVELS:
 ▽ AT TIME OF DRILLING 3.7 ft
 AT END OF DRILLING ---
 AFTER DRILLING ---

GEOTECH BH PLOTS - GINT STD US LAB.GDT - 5/6/22 08:24 - K:\KSM FILES\22 DOCS (KSM-SERVER)\2204421\SOIL INVESTIGATION\2204421-B&P.GPJ

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (ROD) | BLOW COUNTS (N VALUE) | PENETROMETER | DRY UNIT WT. (pcf) | ▲ SPT N VALUE ▲ | | | | | | |
|------------|-------------|--|--------------------|------------------|-----------------------|--------------|--------------------|--|----|----|----|--|--|--|
| | | | | | | | | 20 | 40 | 60 | 80 | | | |
| | | | | | | | | PL MC LL 20 40 60 80 | | | | | | |
| | | | | | | | | □ FINES CONTENT (%) □ | | | | | | |
| | | | | | | | | 20 40 60 80 | | | | | | |
| 0 | | Brown Sand with Traces of Roots and Shell Fragments | | | | | | | | | | | | |
| | | Light Brown Sand | | | | | 25 | | | | | | | |
| | | Light Brown Sand with Traces of Shell Fragments | | | | | 30 | | | | | | | |
| | | ▽ | | | | | 35 | | | | | | | |
| 5 | | Light Brown Sand with Some Shell Fragments | | | | | 35 | | | | | | | |
| | | | SS | | 5-8-11 (19) | | | | | | | | | |
| | | | SS | | 9-14-8 (22) | | | | | | | | | |
| | | | SS | | 5-6-6 (12) | | | | | | | | | |
| 10 | | | | | | | | | | | | | | |
| | | Gray Sand with Shell Fragments | SS | | 9-9-15 (24) | | | | | | | | | |
| 15 | | | | | | | | | | | | | | |
| | | Light Gray Sand with Lots of Shell Fragments | SS | | 20-22-24 (46) | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| | | Light Gray Sand with Traces of Shell Fragments | SS | | 20-20-27 (47) | | | | | | | | | |
| 25 | | | | | | | | | | | | | | |
| | | Gray Sand, Slightly Silty with Traces of Shell Fragments | SS | | 8-15-16 (31) | | | | | | | | | |
| 30 | | | | | | | | | | | | | | |
| | | | SS | | 4-4-5 (9) | | | | | | | | | |
| 35 | | | | | | | | | | | | | | |

(Continued Next Page)



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BORING NUMBER B-8

CLIENT Cambridge Square Investors, LLC

PROJECT NAME 1521 S. Ocean Drive

PROJECT NUMBER 2204421-b&p

PROJECT LOCATION Fort Pierce, Florida

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (RQD) | BLOW COUNTS (N VALUE) | PENETROMETER | DRY UNIT WT. (pcf) | ▲ SPT N VALUE ▲ | | | | | |
|------------|-------------|--|--------------------|------------------|-----------------------|--------------|--------------------|-----------------------|----|----|----|--|--|
| | | | | | | | | 20 | 40 | 60 | 80 | | |
| | | | | | | | | PL MC LL | | | | | |
| | | | | | | | | 20 | 40 | 60 | 80 | | |
| | | | | | | | | □ FINES CONTENT (%) □ | | | | | |
| | | | | | | | | 20 | 40 | 60 | 80 | | |
| 35 | | Gray Sand, Slightly Silty with Traces of Shell Fragments <i>(continued)</i> | | | | | | | | | | | |
| 40 | | | X SS | | 14-12-11 (23) | | | | | | | | |
| 45 | | Gray Sand, Slightly Silty with Traces of Shell | X SS | | 9-12-14 (26) | | | | | | | | |
| 50 | | | X SS | | 11-11-12 (23) | | | | | | | | |

Bottom of borehole at 50.0 feet.

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BORING NUMBER HA-1

PAGE 1 OF 1

CLIENT Cambridge Square Investors, LLC PROJECT NAME 1521 S. Ocean Drive
PROJECT NUMBER 2204421-b&p PROJECT LOCATION Fort Pierce, Florida
DATE STARTED 5/2/22 COMPLETED 5/2/22 GROUND ELEVATION _____ HOLE SIZE _____
DRILLING CONTRACTOR _____ GROUND WATER LEVELS:
DRILLING METHOD _____ AT TIME OF DRILLING 3.3 ft
LOGGED BY DP CHECKED BY CCC AT END OF DRILLING --
NOTES See Attached Location Plan AFTER DRILLING --

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (RQD) | BLOW COUNTS (N VALUE) | PENETROMETER | DRY UNIT WT. (pcf) | ▲ SPT N VALUE ▲ | | | |
|------------|-------------|---|--------------------|------------------|-----------------------|--------------|--------------------|-----------------------|----|----|----|
| | | | | | | | | 20 | 40 | 60 | 80 |
| | | | | | | | | □ FINES CONTENT (%) □ | | | |
| | | | | | | | | 20 | 40 | 60 | 80 |
| 0 | | | | | | | | | | | |
| | | Brown Sand with Traces of Roots | | | | 33 | | | | | |
| | | Light Brown Sand with Traces of Shell Fragments | | | | 37 | | | | | |
| | | | | | | 40 | | | | | |
| | | | | | | 40 | | | | | |
| | | | | | | 46 | | | | | |
| 5 | | | | | | 43 | | | | | |

Bottom of borehole at 6.0 feet.

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BORING NUMBER HA-2

PAGE 1 OF 1

CLIENT Cambridge Square Investors, LLC PROJECT NAME 1521 S. Ocean Drive
 PROJECT NUMBER 2204421-b&p PROJECT LOCATION Fort Pierce, Florida
 DATE STARTED 5/2/22 COMPLETED 5/2/22 GROUND ELEVATION _____ HOLE SIZE _____
 DRILLING CONTRACTOR _____ GROUND WATER LEVELS:
 DRILLING METHOD _____ ∇ AT TIME OF DRILLING 3.8 ft
 LOGGED BY DP CHECKED BY CCC AT END OF DRILLING ---
 NOTES See Attached Location Plan AFTER DRILLING ---

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (RQD) | BLOW COUNTS (N VALUE) | PENETROMETER | DRY UNIT WT. (pcf) | ▲ SPT N VALUE ▲ | | | | | | |
|------------|-------------|---------------------------------|---|------------------|-----------------------|--------------|--------------------|--|----|----|----|--|--|--|
| | | | | | | | | 20 | 40 | 60 | 80 | | | |
| | | | | | | | | PL MC LL 20 40 60 80 | | | | | | |
| | | | | | | | | □ FINES CONTENT (%) □ | | | | | | |
| | | | | | | | | 20 | 40 | 60 | 80 | | | |
| 0 | | | | | | | | | | | | | | |
| | | Brown Sand with Traces of Roots | | | | 20 | | | | | | | | |
| | | | | | | 27 | | | | | | | | |
| | | | | | | 34 | | | | | | | | |
| | | | Light Brown Sand with Traces of Shell Fragments | | | | 33 | | | | | | | |
| | | | | | | | 35 | | | | | | | |
| 5 | | | | | | 37 | | | | | | | | |

Bottom of borehole at 6.0 feet.

GEO TECH BH PLOTS - GINT STD US LAB.GDT - 5/6/22 08:24 - K:\KSM FILES\22 DOCS (KSM-SERVER)\2204421\SOIL INVESTIGATION\2204421-B&P.GPJ



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BORING NUMBER HA-3

CLIENT Cambridge Square Investors, LLC PROJECT NAME 1521 S. Ocean Drive
 PROJECT NUMBER 2204421-b&p PROJECT LOCATION Fort Pierce, Florida
 DATE STARTED 5/2/22 COMPLETED 5/2/22 GROUND ELEVATION _____ HOLE SIZE _____
 DRILLING CONTRACTOR _____ GROUND WATER LEVELS:
 DRILLING METHOD _____ ∇ AT TIME OF DRILLING 3.5 ft
 LOGGED BY DP CHECKED BY CCC AT END OF DRILLING ---
 NOTES See Attached Location Plan AFTER DRILLING ---

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (RQD) | BLOW COUNTS (N VALUE) | PENETROMETER | DRY UNIT WT. (pcf) | ▲ SPT N VALUE ▲ | | | |
|------------|-------------|---|--------------------|------------------|-----------------------|--------------|--------------------|-----------------------|----|----|----|
| | | | | | | | | 20 | 40 | 60 | 80 |
| | | | | | | | | □ FINES CONTENT (%) □ | | | |
| | | | | | | | | 20 | 40 | 60 | 80 |
| 0 | | Brown Sand with Traces of Roots | | | | 24 | | | | | |
| | | Light Brown Sand with Traces of Shell Fragments | | | | 30 | | | | | |
| | | | | | | 30 | | | | | |
| | | | | | | 33 | | | | | |
| | | | | | | 36 | | | | | |
| 5 | | | | | | 38 | | | | | |

Bottom of borehole at 6.0 feet.

GEO TECH BH PLOTS - GINT STD US LAB.GDT - 5/6/22 08:24 - K:\KSM FILES\22 DOCS (KSM-SERVER)\2204421\SOIL INVESTIGATION\2204421-B&P.GPJ



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BORING NUMBER HA-4

PAGE 1 OF 1

CLIENT Cambridge Square Investors, LLC PROJECT NAME 1521 S. Ocean Drive
 PROJECT NUMBER 2204421-b&p PROJECT LOCATION Fort Pierce, Florida
 DATE STARTED 5/2/22 COMPLETED 5/2/22 GROUND ELEVATION _____ HOLE SIZE _____
 DRILLING CONTRACTOR _____ GROUND WATER LEVELS:
 DRILLING METHOD _____ ∇ AT TIME OF DRILLING 3.3 ft
 LOGGED BY DP CHECKED BY CCC AT END OF DRILLING --
 NOTES See Attached Location Plan AFTER DRILLING ---

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (RQD) | BLOW COUNTS (N VALUE) | PENETROMETER | DRY UNIT WT. (pcf) | ▲ SPT N VALUE ▲ | | | |
|------------|-------------|---|--------------------|------------------|-----------------------|--------------|--------------------|-----------------------|----|----|----|
| | | | | | | | | 20 | 40 | 60 | 80 |
| | | | | | | | | □ FINES CONTENT (%) □ | | | |
| | | | | | | | | 20 | 40 | 60 | 80 |
| 0 | | | | | | | | | | | |
| | | Brown Sand with Traces of Roots | | | | 28 | | | | | |
| | | Light Brown Sand with Traces of Shell Fragments | | | | 30 | | | | | |
| | | | | | | 30 | | | | | |
| | | | | | | 34 | | | | | |
| | | | | | | 37 | | | | | |
| 5 | | | | | | 39 | | | | | |

Bottom of borehole at 6.0 feet.

GEOTECH BH PLOTS - GINT STD US LAB.GDT - 5/6/22 08:24 - K:\KSM FILES\22 DOCS (KSM-SERVER)\2204421\SOIL INVESTIGATION\2204421-B&P.GPJ



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BORING NUMBER PB-1

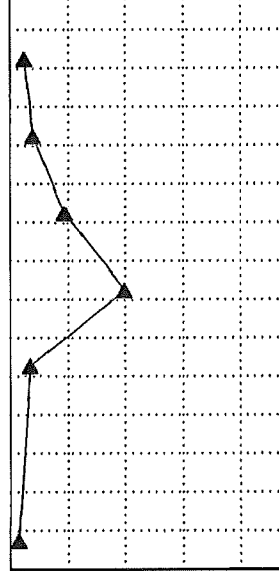
PAGE 1 OF 1

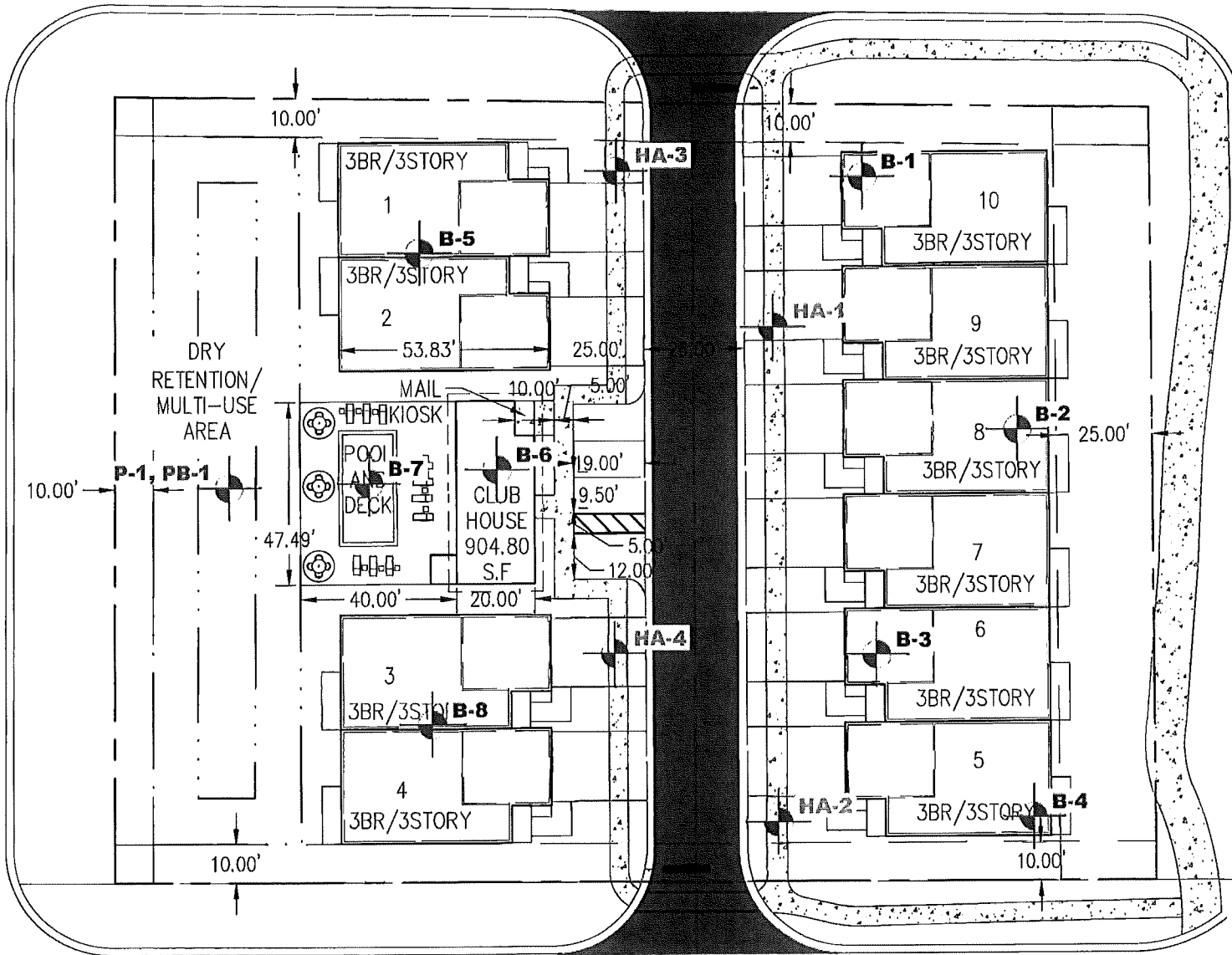
CLIENT Cambridge Square Investors, LLC PROJECT NAME 1521 S. Ocean Drive
 PROJECT NUMBER 2204421-b&p PROJECT LOCATION Fort Pierce, Florida
 DATE STARTED 5/3/22 COMPLETED 5/3/22 GROUND ELEVATION _____ HOLE SIZE _____
 DRILLING CONTRACTOR _____ GROUND WATER LEVELS:
 DRILLING METHOD Split Spoon Sample ∇ AT TIME OF DRILLING 3.50 ft
 LOGGED BY MM/SF CHECKED BY CCC AT END OF DRILLING --
 NOTES See Attached Location Plan AFTER DRILLING --

GEO TECH BH PLOTS - GINT STD US LAB.GDT - 5/6/22 08:25 - K:\KSM FILES\22 DOCS (KSM-SERVER)\2204421\SOIL INVESTIGATION\2204421-B&P.GPJ

| DEPTH (ft) | GRAPHIC LOG | MATERIAL DESCRIPTION | SAMPLE TYPE NUMBER | RECOVERY % (RQD) | BLOW COUNTS (N VALUE) | PENETROMETER | DRY UNIT WT. (pcf) | ▲ SPT N VALUE ▲ | | | | | |
|------------|-------------|---|--------------------|------------------|-----------------------|--------------|--------------------|-----------------------|----|----|----|--|--|
| | | | | | | | | 20 | 40 | 60 | 80 | | |
| | | | | | | | | PL MC LL | | | | | |
| | | | | | | | | 20 | 40 | 60 | 80 | | |
| | | | | | | | | □ FINES CONTENT (%) □ | | | | | |
| | | | | | | | | 20 | 40 | 60 | 80 | | |
| 0 | | Brown Sand with Traces of Roots | | | | | | | | | | | |
| | | Light Brown Sand with Traces of Shell Fragments | SS | | 1-2-3 (5) | | | | | | | | |
| | | | SS | | 3-4-4 (8) | | | | | | | | |
| 5 | | | SS | | 6-8-11 (19) | | | | | | | | |
| | | | SS | | 14-25-15 (40) | | | | | | | | |
| 10 | | | SS | | 3-3-4 (7) | | | | | | | | |
| | | | | | | | | | | | | | |
| 15 | | Gray Silty Sand with Traces of Shell | SS | | 1-1-2 (3) | | | | | | | | |

Bottom of borehole at 15.0 feet.





 **LOCATION OF SOIL TESTING**

PROJECT: Adorno Townhomes, 1521 S. Ocean Drive, Fort Pierce, Florida

SHEET 1 OF 2
 PERMIT #:
 PROJECT #: 2204421-b&p



DRAWN BY: C.V.
 DESIGNED BY: C.C.C.
 DATE: 20220505
 SCALE: NOT TO SCALE



USDA SOILS SURVEY

10—Canaveral fine sand, 0 to 5 percent slopes

PROJECT: Adorno Townhomes, 1521 S. Ocean Drive, Fort Pierce, Florida

SHEET 2 OF 2
PERMIT #:
PROJECT #: 2204421-soils

KSM ENGINEERING
KSM AND TESTING

DRAWN BY: C.V.
DESIGNED BY: C.C.C.
DATE: 20220505
SCALE: NOT TO SCALE

1.25 Acre MF Ft Pierce

Stage / Storage Computations

Begin Stage Calculations = 3.5 NGVD
 End Stage Calculations = 7.0 NGVD
 Calculation Increment = 0.1 ft

| Acres = | Bottom of Retention | Retention Banks | Asphalt Concrete | Open Space | Acres |
|-------------|---------------------|-----------------|------------------|------------|--------------------|
| Low Ring = | 0.050 | 0.070 | 0.370 | 0.420 | Total Area = 0.910 |
| High Ring = | 3.50 | 3.50 | 5.50 | 5.50 | |
| | 5.50 | 5.50 | 6.50 | 7.00 | |

| Stage (NGVD) | Vertical | | Linear | | Linear | | Linear | | Linear | | Total Cumulative Storage (ac.ft.) | Total Area (ac.) |
|--------------|------------------|------------|------------------|------------|------------------|------------|------------------|------------|------------------|------------|-----------------------------------|------------------|
| | Storage (ac.ft.) | Area (ac.) | Storage (ac.ft.) | Area (ac.) | Storage (ac.ft.) | Area (ac.) | Storage (ac.ft.) | Area (ac.) | Storage (ac.ft.) | Area (ac.) | | |
| 3.5 | 0 | 0.05 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 |
| 3.6 | 0.01 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.05 |
| 3.7 | 0.01 | 0.05 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.06 |
| 3.8 | 0.02 | 0.05 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.06 |
| 3.9 | 0.02 | 0.05 | 0.00 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.06 |
| 4.0 | 0.03 | 0.05 | 0.00 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.03 | 0.07 |
| 4.1 | 0.03 | 0.05 | 0.01 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.07 |
| 4.2 | 0.04 | 0.05 | 0.01 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.04 | 0.07 |
| 4.3 | 0.04 | 0.05 | 0.01 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.05 | 0.08 |
| 4.4 | 0.05 | 0.05 | 0.01 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.08 |
| 4.5 | 0.05 | 0.05 | 0.02 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.08 |
| 4.6 | 0.06 | 0.05 | 0.02 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.09 |
| 4.7 | 0.06 | 0.05 | 0.03 | 0.04 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.09 |
| 4.8 | 0.07 | 0.05 | 0.03 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.10 |
| 4.9 | 0.07 | 0.05 | 0.03 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.10 | 0.10 |
| 5.0 | 0.08 | 0.05 | 0.04 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.11 | 0.10 |
| 5.1 | 0.08 | 0.05 | 0.04 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.12 | 0.11 |
| 5.2 | 0.09 | 0.05 | 0.05 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.14 | 0.11 |
| 5.3 | 0.09 | 0.05 | 0.06 | 0.06 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.15 | 0.11 |
| 5.4 | 0.10 | 0.05 | 0.06 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.16 | 0.12 |
| 5.5 | 0.10 | 0.05 | 0.07 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.12 |
| 5.6 | 0.11 | 0.05 | 0.08 | 0.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.19 | 0.18 |
| 5.7 | 0.11 | 0.05 | 0.08 | 0.07 | 0.01 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 0.25 |
| 5.8 | 0.12 | 0.05 | 0.09 | 0.07 | 0.02 | 0.02 | 0.00 | 0.00 | 0.00 | 0.00 | 0.24 | 0.31 |

EXHIBIT

| | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|
| 5.9 | 0.12 | 0.05 | 0.10 | 0.07 | 0.03 | 0.15 | 0.02 | 0.11 | 0.27 | 0.38 |
| 6.0 | 0.13 | 0.05 | 0.11 | 0.07 | 0.05 | 0.18 | 0.03 | 0.14 | 0.31 | 0.44 |
| 6.1 | 0.13 | 0.05 | 0.11 | 0.07 | 0.07 | 0.22 | 0.05 | 0.17 | 0.36 | 0.51 |
| 6.2 | 0.14 | 0.05 | 0.12 | 0.07 | 0.09 | 0.26 | 0.07 | 0.20 | 0.41 | 0.57 |
| 6.3 | 0.14 | 0.05 | 0.13 | 0.07 | 0.12 | 0.30 | 0.09 | 0.22 | 0.47 | 0.64 |
| 6.4 | 0.15 | 0.05 | 0.13 | 0.07 | 0.15 | 0.33 | 0.11 | 0.25 | 0.54 | 0.70 |
| 6.5 | 0.15 | 0.05 | 0.14 | 0.07 | 0.18 | 0.37 | 0.14 | 0.28 | 0.61 | 0.77 |
| 6.6 | 0.16 | 0.05 | 0.15 | 0.07 | 0.22 | 0.37 | 0.17 | 0.31 | 0.69 | 0.80 |
| 6.7 | 0.16 | 0.05 | 0.15 | 0.07 | 0.26 | 0.37 | 0.20 | 0.34 | 0.77 | 0.83 |
| 6.8 | 0.17 | 0.05 | 0.16 | 0.07 | 0.30 | 0.37 | 0.24 | 0.36 | 0.86 | 0.85 |
| 6.9 | 0.17 | 0.05 | 0.17 | 0.07 | 0.33 | 0.37 | 0.27 | 0.39 | 0.95 | 0.88 |
| 7.0 | 0.18 | 0.05 | 0.18 | 0.07 | 0.37 | 0.37 | 0.31 | 0.42 | 1.03 | 0.91 |
| 7.1 | 0.18 | 0.05 | 0.18 | 0.07 | 0.41 | 0.37 | 0.36 | 0.42 | 1.13 | 0.91 |
| 7.2 | 0.19 | 0.05 | 0.19 | 0.07 | 0.44 | 0.37 | 0.40 | 0.42 | 1.22 | 0.91 |
| 7.3 | 0.19 | 0.05 | 0.20 | 0.07 | 0.48 | 0.37 | 0.44 | 0.42 | 1.31 | 0.91 |
| 7.4 | 0.20 | 0.05 | 0.20 | 0.07 | 0.52 | 0.37 | 0.48 | 0.42 | 1.40 | 0.91 |
| 7.5 | 0.20 | 0.05 | 0.21 | 0.07 | 0.55 | 0.37 | 0.52 | 0.42 | 1.49 | 0.91 |
| 7.6 | 0.21 | 0.05 | 0.22 | 0.07 | 0.59 | 0.37 | 0.57 | 0.42 | 1.58 | 0.91 |
| 7.7 | 0.21 | 0.05 | 0.22 | 0.07 | 0.63 | 0.37 | 0.61 | 0.42 | 1.67 | 0.91 |
| 7.8 | 0.22 | 0.05 | 0.23 | 0.07 | 0.67 | 0.37 | 0.65 | 0.42 | 1.76 | 0.91 |
| 7.9 | 0.22 | 0.05 | 0.24 | 0.07 | 0.70 | 0.37 | 0.69 | 0.42 | 1.85 | 0.91 |
| 8.0 | 0.23 | 0.05 | 0.25 | 0.07 | 0.74 | 0.37 | 0.73 | 0.42 | 1.94 | 0.91 |
| 8.1 | 0.23 | 0.05 | 0.25 | 0.07 | 0.78 | 0.37 | 0.78 | 0.42 | 2.04 | 0.91 |
| 8.2 | 0.24 | 0.05 | 0.26 | 0.07 | 0.81 | 0.37 | 0.82 | 0.42 | 2.13 | 0.91 |
| 8.3 | 0.24 | 0.05 | 0.27 | 0.07 | 0.85 | 0.37 | 0.86 | 0.42 | 2.22 | 0.91 |
| 8.4 | 0.25 | 0.05 | 0.27 | 0.07 | 0.89 | 0.37 | 0.90 | 0.42 | 2.31 | 0.91 |
| 8.5 | 0.25 | 0.05 | 0.28 | 0.07 | 0.92 | 0.37 | 0.94 | 0.42 | 2.40 | 0.91 |
| 8.6 | 0.26 | 0.05 | 0.29 | 0.07 | 0.96 | 0.37 | 0.99 | 0.42 | 2.49 | 0.91 |
| 8.7 | 0.26 | 0.05 | 0.29 | 0.07 | 1.00 | 0.37 | 1.03 | 0.42 | 2.58 | 0.91 |
| 8.8 | 0.27 | 0.05 | 0.30 | 0.07 | 1.04 | 0.37 | 1.07 | 0.42 | 2.67 | 0.91 |
| 8.9 | 0.27 | 0.05 | 0.31 | 0.07 | 1.07 | 0.37 | 1.11 | 0.42 | 2.76 | 0.91 |
| 9.0 | 0.28 | 0.05 | 0.32 | 0.07 | 1.11 | 0.37 | 1.16 | 0.42 | 2.85 | 0.91 |
| 9.1 | 0.28 | 0.05 | 0.32 | 0.07 | 1.15 | 0.37 | 1.20 | 0.42 | 2.95 | 0.91 |
| 9.2 | 0.29 | 0.05 | 0.33 | 0.07 | 1.18 | 0.37 | 1.24 | 0.42 | 3.04 | 0.91 |
| 9.3 | 0.29 | 0.05 | 0.34 | 0.07 | 1.22 | 0.37 | 1.28 | 0.42 | 3.13 | 0.91 |
| 9.4 | 0.30 | 0.05 | 0.34 | 0.07 | 1.26 | 0.37 | 1.32 | 0.42 | 3.22 | 0.91 |
| 9.5 | 0.30 | 0.05 | 0.35 | 0.07 | 1.30 | 0.37 | 1.37 | 0.42 | 3.31 | 0.91 |
| 9.6 | 0.31 | 0.05 | 0.36 | 0.07 | 1.33 | 0.37 | 1.41 | 0.42 | 3.40 | 0.91 |
| 9.7 | 0.31 | 0.05 | 0.36 | 0.07 | 1.37 | 0.37 | 1.45 | 0.42 | 3.49 | 0.91 |
| 9.8 | 0.32 | 0.05 | 0.37 | 0.07 | 1.41 | 0.37 | 1.49 | 0.42 | 3.58 | 0.91 |
| 9.9 | 0.32 | 0.05 | 0.38 | 0.07 | 1.44 | 0.37 | 1.53 | 0.42 | 3.67 | 0.91 |
| 10.0 | 0.33 | 0.05 | 0.39 | 0.07 | 1.48 | 0.37 | 1.58 | 0.42 | 3.76 | 0.91 |

MODRET

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SUMMARY OF UNSATURATED & SATURATED INPUT PARAMETERS

**PROJECT NAME : Ft Pierce MF 1.25 Ac Site Infil
HYDROGRAPH RUNOFF DATA USED
UNSATURATED ANALYSIS INCLUDED**

| | |
|---|--------------------------|
| Pond Bottom Area | 2,200.00 ft ² |
| Pond Volume between Bottom & DHWL | 7,405.00 ft ³ |
| Pond Length to Width Ratio (L/W) | 8.00 |
| Elevation of Effective Aquifer Base | -9.00 ft |
| Elevation of Seasonal High Groundwater Table | 2.50 ft |
| Elevation of Starting Water Level | 3.50 ft |
| Elevation of Pond Bottom | 3.50 ft |
| Design High Water Level Elevation | 5.50 ft |
| Avg. Effective Storage Coefficient of Soil for Unsaturated Analysis | 0.30 |
| Unsaturated Vertical Hydraulic Conductivity | 65.80 ft/d |
| Factor of Safety | 2.00 |
| Saturated Horizontal Hydraulic Conductivity | 75.00 ft/d |
| Avg. Effective Storage Coefficient of Soil for Saturated Analysis | 0.30 |
| Avg. Effective Storage Coefficient of Pond/Exfiltration Trench | 1.00 |
| Time Increment During Storm Event | 2.00 hrs |
| Time Increment After Storm Event | 12.00 hrs |
| Total Number of Increments After Storm Event | 6.00 |

Runoff Hydrograph File Name: Ft Pierce 1.SAN

Time of Peak Runoff: 12.08 hrs

Rate of Peak Runoff: 2.40 cfs

Hydraulic Control Features:

Groundwater Control Features - Y/N

Distance to Edge of Pond
Elevation of Water Level

| | Top | Bottom | Left | Right |
|--|------|--------|------|-------|
| | N | N | N | N |
| | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | 0.00 | 0.00 | 0.00 |

Impervious Barrier - Y/N

Elevation of Barrier Bottom

| | Top | Bottom | Left | Right |
|--|------|--------|------|-------|
| | N | N | N | N |
| | 0.00 | 0.00 | 0.00 | 0.00 |

EXHIBIT D

MODRET

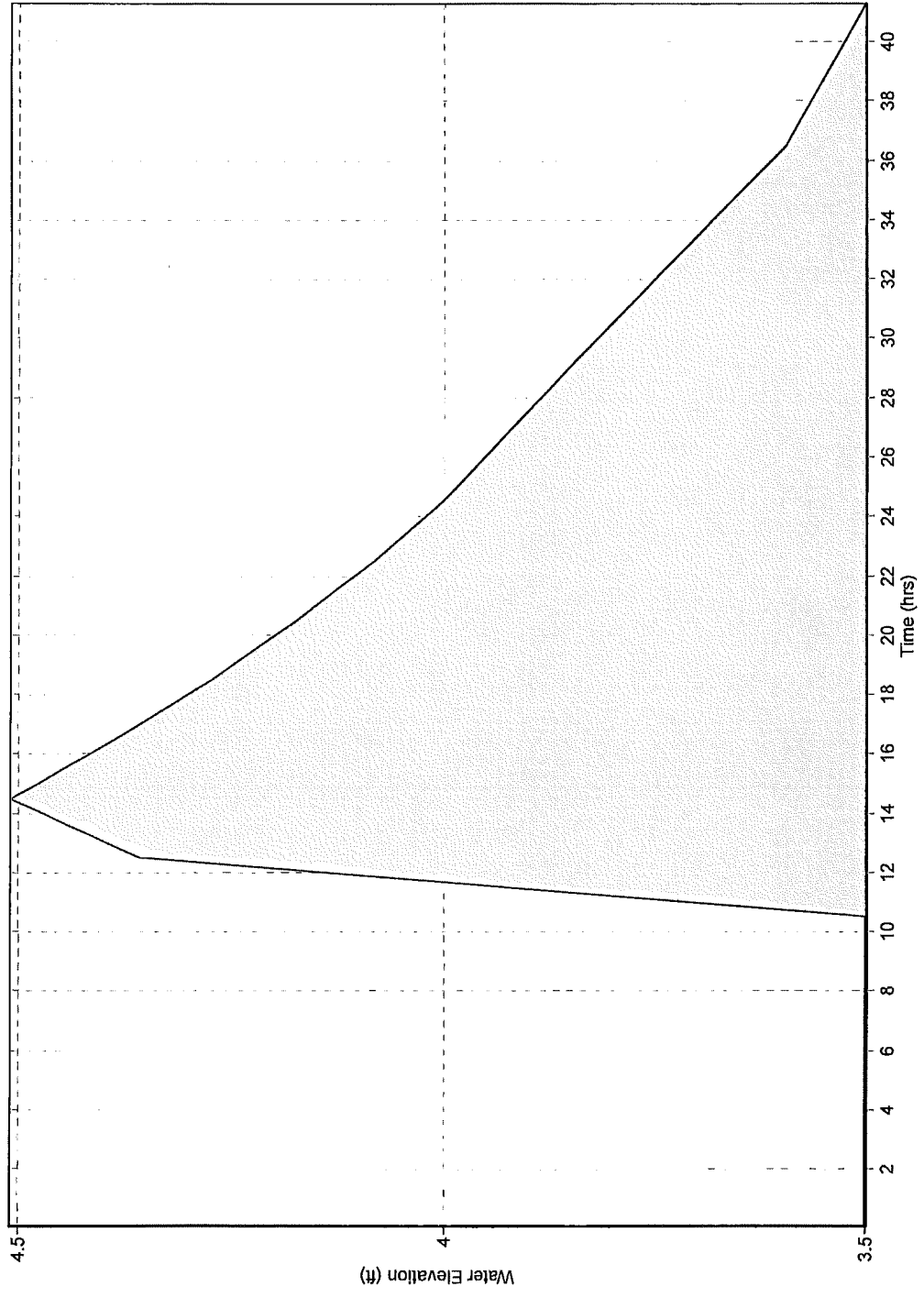
10yr

SUMMARY OF RESULTS

PROJECT NAME : Ft Pierce MF 1.25 Ac Site Infil

| CUMULATIVE TIME (hrs) | WATER ELEVATION (feet) | INSTANTANEOUS INFILTRATION RATE (cfs) | AVERAGE INFILTRATION RATE (cfs) | CUMULATIVE OVERFLOW (ft ³) |
|-----------------------|------------------------|---------------------------------------|---------------------------------|--|
| 00.00 - 0.08 | 2.500 | 0.000 * | | |
| | | | 0.00000 | |
| 0.08 | 2.500 | 0.07258 | | |
| | | | 0.08179 | |
| 6.50 | 3.500 | 0.09099 | | 0.00 |
| | | | 0.09386 | |
| 8.50 | 3.500 | 0.09110 | | 0.00 |
| | | | 0.08834 | |
| 10.50 | 3.500 | 0.20075 | | 0.00 |
| | | | 0.31316 | |
| 12.50 | 4.355 | 0.27968 | | 0.00 |
| | | | 0.24621 | |
| 14.50 | 4.509 | 0.20696 | | 0.00 |
| | | | 0.16771 | |
| 16.50 | 4.381 | 0.14924 | | 0.00 |
| | | | 0.13077 | |
| 18.50 | 4.269 | 0.11902 | | 0.00 |
| | | | 0.10727 | |
| 20.50 | 4.170 | 0.09886 | | 0.00 |
| | | | 0.09045 | |
| 22.50 | 4.080 | 0.08450 | | 0.00 |
| | | | 0.07854 | |
| 24.50 | 4.002 | 0.07232 | | 0.00 |
| | | | 0.03500 | |
| 36.50 | 3.594 | 0.02768 | | 0.00 |
| | | | 0.02035 | |
| 41.24 | 3.500 | 0.01685 | | 0.00 |
| | | | 0.01335 | |
| 60.50 | 3.201 | 0.01136 | | 0.00 |

INFILTRATION : FT PIERCE MF 1.25 AC SITE INFIL



Max Water Elevation = 4.51 ft

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HYDROGRAPH DATA INPUT - SANTA BARBARA HYDROGRAPH METHOD

Project Name : 1.25 Ac 25 Year 72 Hour Storm
Rainfall Distribution : SFWMD (72 hrs)

Contributing Basin Area

1.25 ac.

SCS Curve Number

71.20

Time of Concentration

15.00 min.

Rainfall Depth

9.50 in.

Percent DCIA

0.00 %

MODRET

SUMMARY OF UNSATURATED & SATURATED INPUT PARAMETERS

**PROJECT NAME : Ft Pierce MF 1.25 Ac Site Infil
 HYDROGRAPH RUNOFF DATA USED
 UNSATURATED ANALYSIS INCLUDED**

| | |
|---|--------------------------|
| Pond Bottom Area | 2,200.00 ft ² |
| Pond Volume between Bottom & DHWL | 7,405.00 ft ³ |
| Pond Length to Width Ratio (L/W) | 8.00 |
| Elevation of Effective Aquifer Base | -9.00 ft |
| Elevation of Seasonal High Groundwater Table | 2.50 ft |
| Elevation of Starting Water Level | 3.50 ft |
| Elevation of Pond Bottom | 3.50 ft |
| Design High Water Level Elevation | 5.50 ft |
| Avg. Effective Storage Coefficient of Soil for Unsaturated Analysis | 0.30 |
| Unsaturated Vertical Hydraulic Conductivity | 65.80 ft/d |
| Factor of Safety | 2.00 |
| Saturated Horizontal Hydraulic Conductivity | 75.00 ft/d |
| Avg. Effective Storage Coefficient of Soil for Saturated Analysis | 0.30 |
| Avg. Effective Storage Coefficient of Pond/Exfiltration Trench | 1.00 |
| Time Increment During Storm Event | 2.00 hrs |
| Time Increment After Storm Event | 12.00 hrs |
| Total Number of Increments After Storm Event | 6.00 |

Runoff Hydrograph File Name: Ft Pierce MF 25 Yr.SAN

Time of Peak Runoff: 60.08 hrs

Rate of Peak Runoff: 2.09 cfs

Hydraulic Control Features:

Groundwater Control Features - Y/N

Distance to Edge of Pond

Elevation of Water Level

| | Top | Bottom | Left | Right |
|------|------|--------|------|-------|
| N | N | N | N | N |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Impervious Barrier - Y/N

Elevation of Barrier Bottom

| | | | |
|------|------|------|------|
| N | N | N | N |
| 0.00 | 0.00 | 0.00 | 0.00 |

MODRET

SUMMARY OF RESULTS

PROJECT NAME : Ft Pierce MF 1.25 Ac Site Infil

| CUMULATIVE TIME (hrs) | WATER ELEVATION (feet) | INSTANTANEOUS INFILTRATION RATE (cfs) | AVERAGE INFILTRATION RATE (cfs) | CUMULATIVE OVERFLOW (ft ³) |
|-----------------------|------------------------|---------------------------------------|---------------------------------|--|
| 00.00 - 0.08 | 2.500 | 0.000 * | | |
| | | | 0.00000 | |
| 0.08 | 2.500 | 0.05583 | | |
| | | | 0.06544 | |
| 7.92 | 3.500 | 0.07505 | | 0.00 |
| | | | 0.07751 | |
| 9.92 | 3.500 | 0.06669 | | 0.00 |
| | | | 0.05588 | |
| 11.92 | 3.500 | 0.05124 | | 0.00 |
| | | | 0.04661 | |
| 13.92 | 3.500 | 0.04402 | | 0.00 |
| | | | 0.04143 | |
| 15.92 | 3.500 | 0.03991 | | 0.00 |
| | | | 0.03838 | |
| 17.92 | 3.500 | 0.03731 | | 0.00 |
| | | | 0.03624 | |
| 19.92 | 3.500 | 0.03558 | | 0.00 |
| | | | 0.03492 | |
| 21.92 | 3.500 | 0.03437 | | 0.00 |
| | | | 0.03383 | |
| 23.92 | 3.500 | 0.03536 | | 0.00 |
| | | | 0.03689 | |
| 25.92 | 3.500 | 0.03798 | | 0.00 |
| | | | 0.03906 | |
| 27.92 | 3.500 | 0.03956 | | 0.00 |
| | | | 0.04006 | |
| 29.92 | 3.500 | 0.04041 | | 0.00 |
| | | | 0.04076 | |
| 31.92 | 3.500 | 0.04103 | | 0.00 |

MODRET

SUMMARY OF RESULTS

PROJECT NAME : Ft Pierce MF 1.25 Ac Site Infil

| CUMULATIVE TIME (hrs) | WATER ELEVATION (feet) | INSTANTANEOUS INFILTRATION RATE (cfs) | AVERAGE INFILTRATION RATE (cfs) | CUMULATIVE OVERFLOW (ft ³) |
|-----------------------|------------------------|---------------------------------------|---------------------------------|--|
| | | | 0.04130 | |
| 34.00 | 3.500 | 0.04077 | | 0.00 |
| | | | 0.04025 | |
| 36.00 | 3.500 | 0.03968 | | 0.00 |
| | | | 0.03911 | |
| 38.00 | 3.500 | 0.03909 | | 0.00 |
| | | | 0.03908 | |
| 40.00 | 3.500 | 0.03908 | | 0.00 |
| | | | 0.03909 | |
| 42.00 | 3.500 | 0.03907 | | 0.00 |
| | | | 0.03906 | |
| 44.00 | 3.500 | 0.03905 | | 0.00 |
| | | | 0.03904 | |
| 46.00 | 3.500 | 0.04219 | | 0.00 |
| | | | 0.04534 | |
| 48.00 | 3.500 | 0.04675 | | 0.00 |
| | | | 0.04816 | |
| 50.00 | 3.500 | 0.04913 | | 0.00 |
| | | | 0.05010 | |
| 52.00 | 3.500 | 0.05536 | | 0.00 |
| | | | 0.06063 | |
| 54.00 | 3.500 | 0.06978 | | 0.00 |
| | | | 0.07892 | |
| 56.00 | 3.500 | 0.09178 | | 0.00 |
| | | | 0.10465 | |
| 58.00 | 3.665 | 0.21585 | | 0.00 |
| | | | 0.32705 | |
| 60.00 | 4.719 | 0.36423 | | 0.00 |

MODRET

SUMMARY OF RESULTS

PROJECT NAME : Ft Pierce MF 1.25 Ac Site Infil

| CUMULATIVE TIME (hrs) | WATER ELEVATION (feet) | INSTANTANEOUS INFILTRATION RATE (cfs) | AVERAGE INFILTRATION RATE (cfs) | CUMULATIVE OVERFLOW (ft ³) |
|-----------------------|------------------------|---------------------------------------|---------------------------------|--|
| | | | | |
| | | | 0.40141 | |
| 62.00 | 5.463 | 0.33212 | | 0.00 |
| | | | 0.26284 | |
| 64.00 | 5.327 | 0.22950 | | 0.00 |
| | | | 0.19617 | |
| 66.00 | 5.162 | 0.17966 | | 0.00 |
| | | | 0.16316 | |
| 68.00 | 5.038 | 0.14975 | | 0.00 |
| | | | 0.13634 | |
| 70.00 | 4.913 | 0.12789 | | 0.00 |
| | | | 0.11943 | |
| 72.00 | 4.809 | 0.10549 | | 0.00 |
| | | | 0.09155 | |
| 74.00 | 4.655 | 0.08493 | | 0.00 |
| | | | 0.04519 | |
| 86.00 | 4.128 | 0.03630 | | 0.00 |
| | | | 0.02742 | |
| 98.00 | 3.808 | 0.02295 | | 0.00 |
| | | | 0.01849 | |
| 110.00 | 3.592 | 0.01592 | | 0.00 |
| | | | 0.01335 | |
| 117.10 | 3.500 | 0.01171 | | 0.00 |
| | | | 0.01007 | |
| 134.00 | 3.319 | 0.00897 | | 0.00 |
| | | | 0.00787 | |
| 146.00 | 3.227 | | | 0.00 |
| | | | | |
| | | | | |

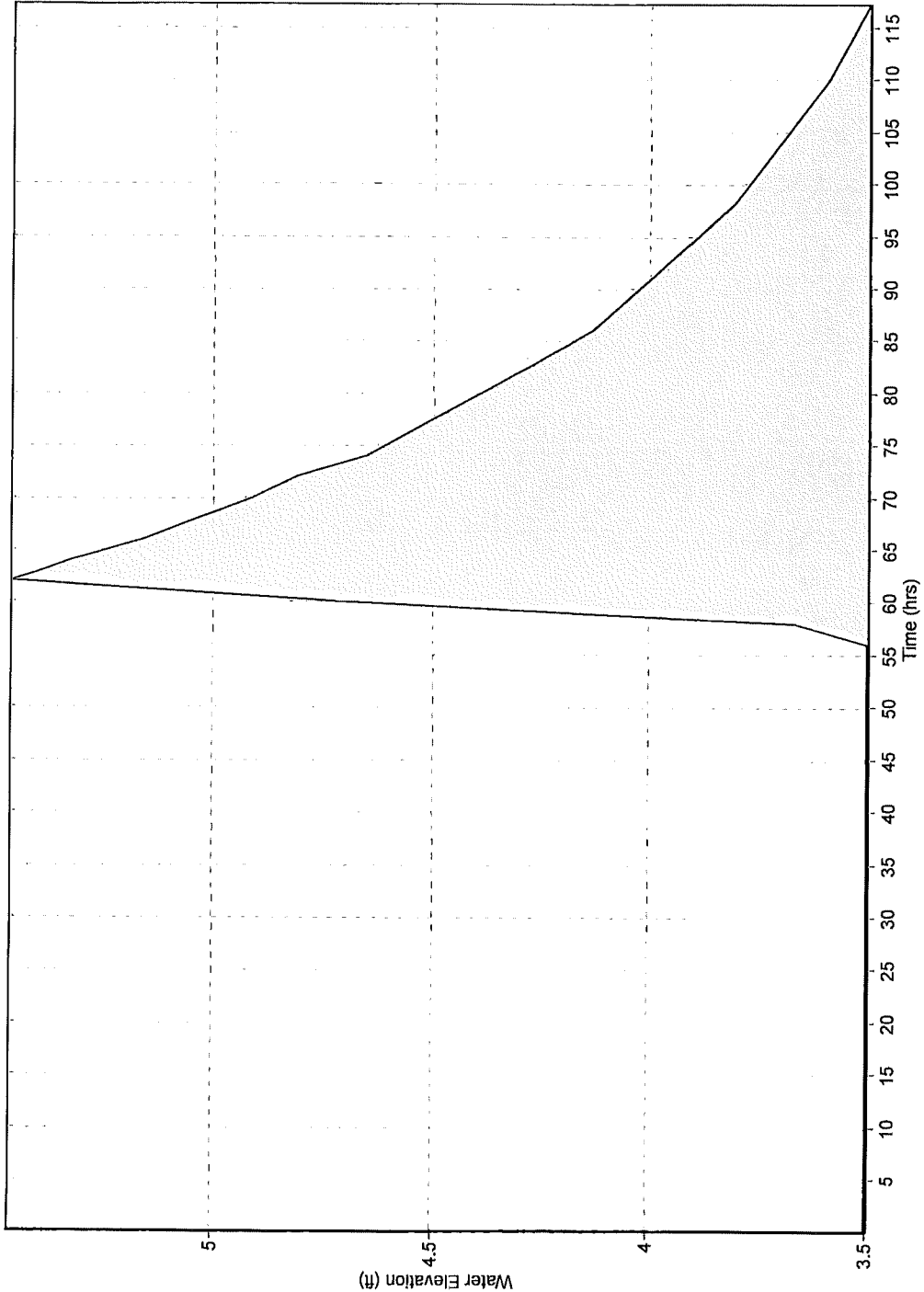
Maximum Water Elevation: 5.463 feet @ 62.00 hours

Recovery @ 117.095 hours

* Time increment when there is no runoff

Maximum Infiltration Rate: 9.367 ft/day

INFILTRATION : FT PIERCE MF 1.25 AC SITE INFIL



Max Water Elevation = 5.46 ft