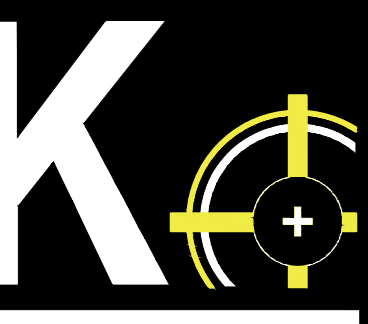


ST. LUCIE COUNTY  
PROJECT LOCATION

# CONSTRUCTION PLANS FOR SUNRISE LAKES

LOCATED AT

3804 SUNRISE BLVD, FORT PIERCE, FLORIDA  
SECTION 33, TOWNSHIP 35S, RANGE 40E



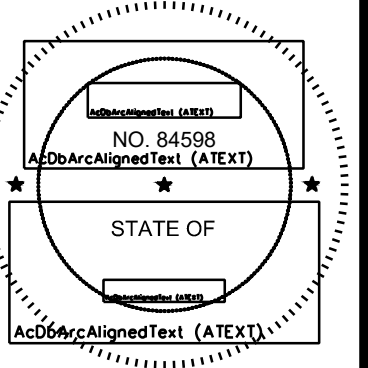
**KMA**  
ENGINEERING & SURVEYING, LLC  
3001 INDUSTRIAL AVE 2  
FORT PIERCE, FL 34946  
(772) 569-5505  
FBPE C.O.A. # 33705

| REVISIONS: |          |
|------------|----------|
| BY:        | COMMENT: |
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|            |          |

NOT FOR  
CONSTRUCTION

PROJECT:  
SUNRISE LAKES  
CITY OF FORT PIERCE,  
FLORIDA

CLIENT:  
INTEGRITY 1ST  
CONSTRUCTION GROUP



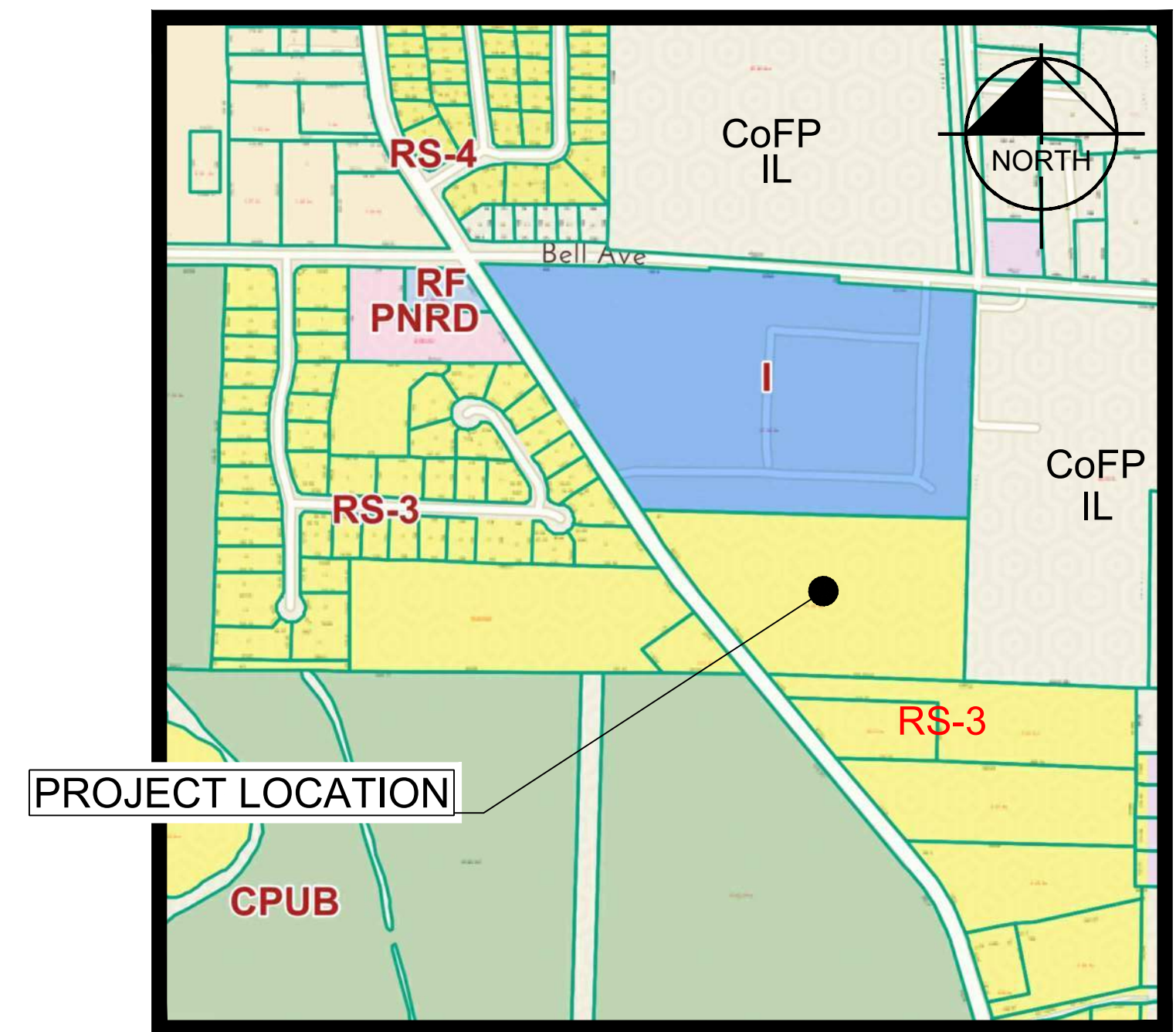
BLAINE BERGSTRESSER, P.E.  
FLORIDA LICENSE No. 84598  
2/24/2025



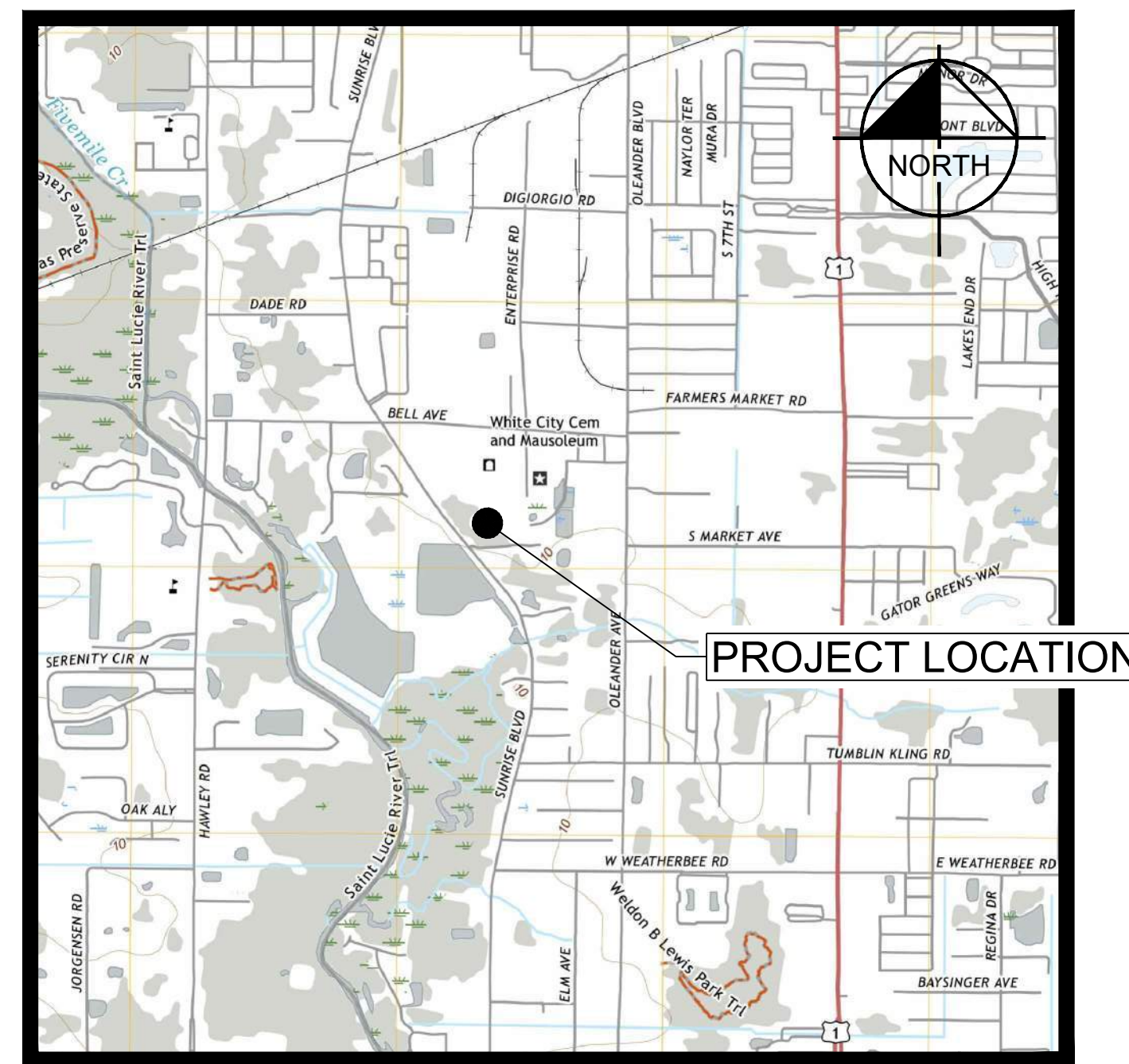
PROJECT No.: 24-1001  
DRAWN BY: SCB  
CHECKED BY: BRB  
DATE: 04/02/2024  
CAD ID: 24-1001 COVER

SHEET TITLE:  
COVER

SHEET NUMBER:  
C-100



**LOCATION MAP**  
SCALE: NOT TO SCALE



**VICINITY MAP**  
SCALE: NOT TO SCALE

| SHEET LIST TABLE |                                       |
|------------------|---------------------------------------|
| Sheet Number     | Sheet Title                           |
| C-100            | COVER                                 |
| C-101            | GENERAL NOTES                         |
| C-200            | SITE PLAN                             |
| C-201            | PRELIMINARY PLAT                      |
| C-300            | MASTER PAVING GRADING & DRAINAGE PLAN |
| C-301            | PAVING GRADING & DRAINAGE DETAILS     |
| C-302            | PAVING GRADING & DRAINAGE DETAILS     |
| C-303            | GRADING SECTIONS                      |
| C-400            | MASTER UTILITIES PLAN                 |
| C-401            | SEWER PROFILES                        |
| C-500            | FPUA DETAILS-01                       |
| C-501            | FPUA DETAILS-02                       |
| C-502            | FPUA DETAILS-03                       |
| C-503            | FPUA DETAILS-04                       |
| C-504            | FPUA DETAILS-05                       |
| C-505            | LIFT STATION                          |
| C-600            | EXISTING CONDITIONS & DEMOLITION      |
| C-601            | PHASE ONE EROSION CONTROL             |
| C-602            | PHASE TWO EROSION CONTROL             |
| C-603            | EROSION CONTROL DETAILS               |
| C-700            | ROUTING PLAN BUS                      |
| C-701            | ROUTING PLAN FIRE                     |
| C-800            | PHOTOMETRICS                          |
| --               | PLAT COVER                            |
| --               | PLAT                                  |

**LEGAL DESCRIPTION**

THE SOUTH 546 FEET OF THE NORTHWEST 1/4 OF THE NORTHEAST 1/4, LYING EAST OF WHITE CITY ROAD (SUNRISE BOULEVARD) IN SECTION 33, TOWNSHIP 35 SOUTH, RANGE 40 EAST, SAID LAND LYING AND BEING IN ST. LUCIE COUNTY, FLORIDA.

**PROJECT TEAM**

**OWNER/DEVELOPER**  
DT VENTURES 1, LLC.  
PO BOX 92280  
ROCHESTER, NY 14692

**CIVIL ENGINEER**  
BLAINE BERGSTRESSER, P.E.  
KMA ENGINEERING & SURVEYING, LLC  
3001 INDUSTRIAL AVE 2  
FORT PIERCE, FL 34946  
772-569-5505  
BLAINEB@KMAFL.COM

**LANDSCAPE ARCHITECT**  
PAUL GOULAS, RLA  
LANDSCAPE ARCHITECTURAL SERVICES  
1708 SE JOY HAVEN ST  
PORT ST LUCIE, FL 34983  
772-631-8400

**SURVEYOR**  
DOUG WALKER, PSM  
PRINCIPAL MERIDIAN SURVEYING, INC  
4546 CAMBRIDGE ST.  
WEST PALM BEACH, FL 33415  
561-478-7764

**PERMITTING AGENCIES**

**FORT PIERCE UTILITY AUTHORITY**  
SHANE OSTRANDER  
1701 S. 37TH STREET  
FORT PIERCE, FL 34984  
SOTRANDER@FPUA.COM  
772-466-1600

**SOUTH FLORIDA WATER MANAGEMENT DISTRICT**  
SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
316 NW 5TH ST  
OKEECHOBEE, FL 34972  
863-462-5260

**CITY OF FORT PIERCE**  
CESAR FLORES  
100 NORTH US 1  
FORT PIERCE, FL 34950  
CFLORES@CITYOFFORTPIERCE.COM  
772-467-3730

**NORTH ST LUCIE RIVER WATER CONTROL DISTRICT**  
PATRICIA KUTA  
14666 ORANGE AVENUE  
FORT PIERCE, FL 34945  
NSLRWCD@BELLSOUTH.NET  
772-461-5050

GENERAL

- 1. THE CONTRACTOR AND SUBCONTRACTORS SHALL OBTAIN A COPY OF THE FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (LATEST EDITION) AND BECOME FAMILIAR WITH THE CONTENTS PRIOR TO COMMENCING WORK...

EROSION CONTROL

- 1. THE STORM WATER POLLUTION PREVENTION PLAN ("SWPPP") IS COMPRISED OF THE EROSION CONTROL PLAN, THE STANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN SPECIFICATIONS OF THE SWPPP, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.

POTABLE WATER AND SANITARY SEWER SYSTEM

- 1. THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES GRAVITY SEWER LINES AND DOMESTIC WATER AND FIRE PROTECTION SYSTEM AS SHOWN ON THESE PLANS...

MAINTENANCE

- ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE.

STORM DRAINAGE SYSTEM

- 1. STANDARD INDEXES REFER TO THE 2021/2022 EDITION OF F.D.O.T. "STANDARD PLANS FOR ROADWAY CONSTRUCTION"

PAVING/GRADING TESTING AND INSPECTION

- 1. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE SOILS ENGINEER. TESTS WILL BE REQUIRED PURSUANT WITH THE SOILS REPORT.

DRAINAGE SYSTEM TESTING AND INSPECTION

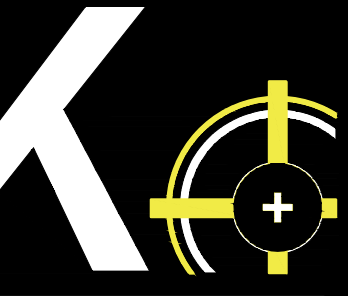
- 1. THE STORM DRAINAGE PIPING SYSTEM SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL.

PAVING, GRADING AND DRAINAGE

- 1. ALL PAVING, CONSTRUCTION, MATERIALS, AND WORKMANSHIP WITHIN COUNTY'S RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH LOCAL OR COUNTY SPECIFICATIONS AND STANDARDS (LATEST EDITION) OR FDOT SPECIFICATIONS AND STANDARDS (LATEST EDITION) IF NOT COVERED BY LOCAL OR COUNTY REGULATIONS.

DEMOLITION

- 1. CONTRACTOR SHALL SUBMIT DEMOLITION SCHEDULE TO OWNER PRIOR TO PROCEEDING WITH DEMOLITION ACTIVITIES.



KMA

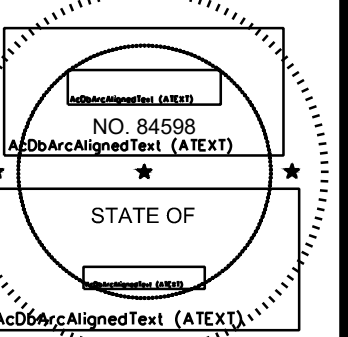
ENGINEERING & SURVEYING, LLC
3031 INDUSTRIAL AVE. E.
FORT PIERCE, FL 34946
(772) 969-6505
FBPE C.O.A.# 33705

Table with 2 columns: REVISIONS, BY: DATE: COMMENT:

NOT FOR CONSTRUCTION

SUNRISE LAKES

INTEGRITY 1ST CONSTRUCTION GROUP



BLAINE BERGSTRESSER, P.E.
FLORIDA LICENSE NO. 84598

2/24/2025



PROJECT No.: 24-1001
DRAWN BY: SCB
CHECKED BY: BBB
DATE: 04/02/2025
CAD ID.: 24-1001 COVER

SHEET TITLE:

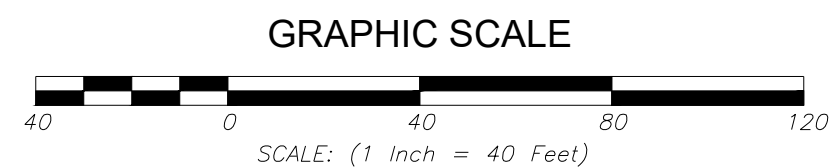
GENERAL NOTES

SHEET NUMBER:

C-101

SET MAG NAIL  
& DISK / LB 8261  
ELEVATION = 13.56'

WHITE CITY CEMETERY  
ZONING: I  
PARCEL No. 2433-121-0001-000-5



WOOD POWER POLE  
56.0'

BUILDING FFE = 14.35'



**KMA**  
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FORT PIERCE, FL 34946  
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FLORIDA C.O.A. # 33705

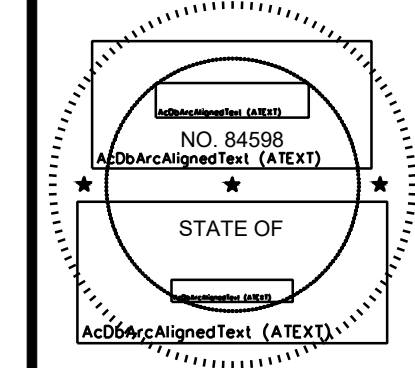
REVISIONS:

| BY: | DATE: | COMMENT: |
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|     |       |          |

**NOT FOR CONSTRUCTION**

PROJECT: **SUNRISE LAKES**  
CITY OF FORT PIERCE, FLORIDA

CLIENT: **INTEGRITY 1ST CONSTRUCTION GROUP**



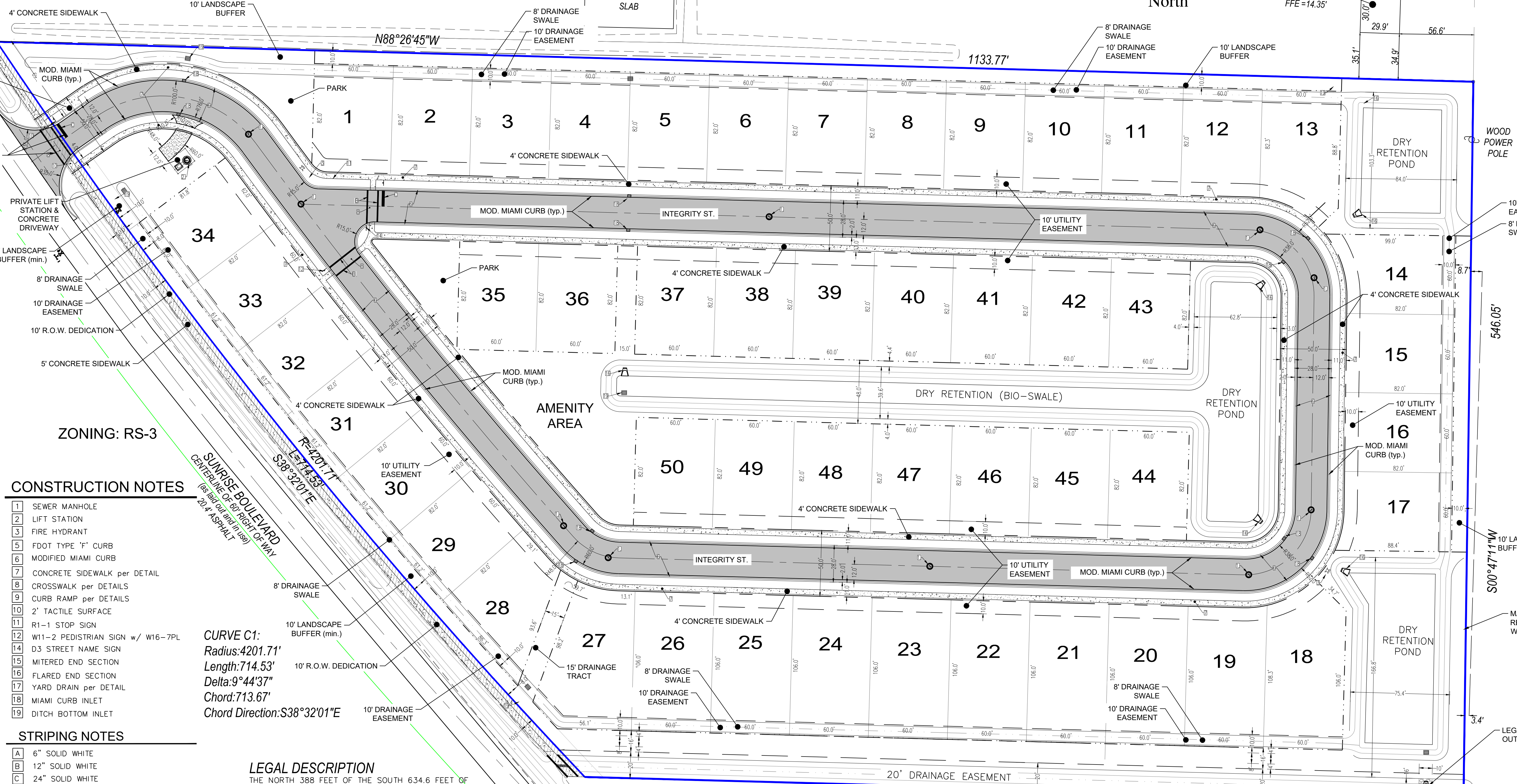
BLAINE BERGSTRESSER, P.E.  
FLORIDA LICENSE No. 84598  
2/24/2025



PROJECT No.: 24-1001  
DRAWN BY: SCB  
CHECKED BY: BRB  
DATE: 04/02/2025  
CAD I.D.: 24-1001 SITE

SHEET TITLE: **SITE PLAN**

SHEET NUMBER: **C-200**



**CONSTRUCTION NOTES**

- 1 SEWER MANHOLE
- 2 LIFT STATION
- 3 FIRE HYDRANT
- 5 FOOT TYPE 'T' CURB
- 6 MODIFIED MIAMI CURB
- 7 CONCRETE SIDEWALK per DETAIL
- 8 CROSSWALK per DETAILS
- 9 CURB RAMP per DETAILS
- 10 2' TACTILE SURFACE
- 11 R1-1 STOP SIGN
- 12 W11-2 PEDESTRIAN SIGN w/ W16-7PL
- 14 D3 STREET NAME SIGN
- 15 MITERED END SECTION
- 16 FLARED END SECTION
- 17 YARD DRAIN per DETAIL
- 18 MIAMI CURB INLET
- 19 DITCH BOTTOM INLET

**STRIPING NOTES**

- |   |                 |
|---|-----------------|
| A | 6" SOLID WHITE  |
| B | 12" SOLID WHITE |
| C | 24" SOLID WHITE |

**CURVE C1:**  
Radius: 4201.71'  
Length: 714.53'  
Delta: 9°44'37"  
Chord: 713.67'  
Chord Direction: S38°32'01"E

**LEGAL DESCRIPTION**

THE NORTH 388 FEET OF THE SOUTH 634.6 FEET OF THE SE 1/4 OF THE SE 1/4, LYING EAST OF CANAL RIGHT OF WAY OF SECTION 5, TOWNSHIP 36 SOUTH, RANGE 40 EAST, ST. LUCIE COUNTY, FLORIDA.

LESS AND EXCEPT THOSE LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 4161, PAGE 173, ST. LUCIE COUNTY PUBLIC RECORDS

**DEVELOPMENT DATA**

|                           |                                 |  |  |
|---------------------------|---------------------------------|--|--|
| PROJECT NAME              | SUNRISE LAKES                   |  |  |
| TAX PARCEL ID NO.         | 3405-443-0001-000-0             |  |  |
| EXISTING FUTURE LAND USE  | MEDIUM DENSITY RESIDENTIAL (RM) |  |  |
| PROPOSED FUTURE LAND USE  | MEDIUM DENSITY RESIDENTIAL (RM) |  |  |
| EXISTING ZONING           | RS-3                            |  |  |
| PROPOSED ZONING           | PLANNED DEVELOPMENT ZONE (PD)   |  |  |
| PROJECT USE               | SINGLE-FAMILY RESIDENTIAL       |  |  |
| MAXIMUM ALLOWABLE DENSITY | RS-3 - 6 DU/AC                  |  |  |
| PROPOSED DENSITY          | PD - 3.81 DU/AC                 |  |  |

**OPEN SPACE CALCULATION**

| Item                         | SF      | AC    | %       |
|------------------------------|---------|-------|---------|
| TOTAL AREA OF SUBJECT PARCEL | 502,682 | 11.54 | 100.00% |
| REQUIRED OPEN SPACE AREA     | 100,536 | 2.31  | 20.00%  |
| AREA OF WETLAND BUFFER       | 0       | 0.00  | 0.00%   |
| AREA OF RETENTION PONDS*     | 30,161  | 0.69  | 6.00%   |
| AREA OF GREEN SPACE          | 83,323  | 1.91  | 16.58%  |
| PROVIDED OPEN SPACE AREA     | 113,484 | 2.61  | 22.58%  |

**LAND USE BREAKDOWN**

| Item                         | SF      | AC    | %       |
|------------------------------|---------|-------|---------|
| TOTAL AREA OF SUBJECT PARCEL | 502,682 | 11.54 | 100.00% |
| AREA OF ONSITE WETLAND       | 0       | 0.00  | 0.00%   |
| AREA OF WETLAND BUFFER       | 0       | 0.00  | 0.00%   |
| TOTAL DEVELOPMENT AREA       | 502,682 | 11.54 | 100.00% |

| Item                            | SF      | AC    | %       |
|---------------------------------|---------|-------|---------|
| TOTAL DEVELOPMENT AREA          | 502,682 | 11.54 | 100.00% |
| AREA OF PROPOSED BUILDINGS      | 100,000 | 2.30  | 19.89%  |
| AREA OF PROPOSED ROW IMPERVIOUS | 79,358  | 1.82  | 15.79%  |
| AREA OF PROPOSED LOT IMPERVIOUS | 56,000  | 1.29  | 11.14%  |
| AREA OF PROPOSED RETENTION BASE | 26,130  | 0.60  | 5.20%   |
| TOTAL PROPOSED IMPERVIOUS AREA  | 261,488 | 6.00  | 52.02%  |
| AREA OF PROPOSED LOT PERVIOUS   | 106,940 | 2.46  | 21.27%  |
| AREA OF PROPOSED RETENTION BANK | 24,890  | 0.57  | 4.95%   |
| AREA OF PROPOSED GREEN SPACE    | 102,323 | 2.35  | 20.36%  |
| TOTAL PROPOSED PERVIOUS AREA    | 234,153 | 5.38  | 46.58%  |

**ZONING**

|                             |                                  |
|-----------------------------|----------------------------------|
| ZONING                      | PD                               |
| MIN. LOT SIZE               | 4,920 SF                         |
| MIN. LOT WIDTH              | 60'                              |
| MIN. LOT DEPTH              | 82'                              |
| MIN. ROAD FRONTAGE          | 25'                              |
| MAX. LOT COVERAGE           | 40%                              |
| BUILDING HEIGHT (1 STORY)   | 45'                              |
| MAX. GROSS DENSITY (DU/AC.) | 12 DU/AC. (3.81 DU/AC. PROPOSED) |
| MIN. SETBACKS               |                                  |
| FRONT                       | 15'                              |
| SIDE (INTERIOR)             | 5'                               |
| SIDE (CORNER)               | 5'                               |
| GARAGE                      | 20'                              |
| REAR                        | 15'                              |

**CIVIL ENGINEER**  
KMA ENGINEERING & SURVEYING, LLC  
3001 INDUSTRIAL AVE. 2  
FORT PIERCE, FL 34946  
PHONE: (772) 569-5505

**OWNER/DEVELOPER**  
DT VENTURES 1, LLC.  
PO BOX 92280  
ROCHESTER, NY 14692

**NOTES**  
1. AIR CONDITIONER UNITS WILL HAVE A 5' SIDE SETBACK.

**FLOOD ZONE**  
PROPERTY LIES WITHIN FLOOD ZONE "X" & "AE", ACCORDING TO THE F.I.R.M. MAP NO. 12111C0189J.

**LINework & SYMBOL LEGEND**

- |  |                           |  |  |
|--|---------------------------|--|--|
|  | DENOTES PROPERTY BOUNDARY |  | DENOTES RUNOFF OVERLAND FLOW                         |
|  | DENOTES RIGHT-OF-WAY      |  | DENOTES PROPOSED ELEVATIONS                          |
|  | DENOTES CENTERLINE        |  | DENOTES EXISTING GRADES                              |
|  | DENOTES EASEMENT          |  | DENOTES DRAINAGE STRUCTURE refer to table this sheet |
|  | DENOTES FENCE LINE        |  | DENOTES DITCH BOTTOM INLET                           |
|  | DENOTES DRAINAGE PIPE     |  | DENOTES JUNCTION BOX                                 |
|  | DENOTES SEWER MANHOLE     |  | DENOTES YARD DRAIN                                   |
|  | DENOTES FIRE HYDRANT      |  | DENOTES DRAINAGE STRUCTURE                           |
|  | DENOTES GATE VALVE        |  | DENOTES MITERED/FLARED END SECTION                   |
|  | DENOTES LIGHT POLE        |  |  |
|  | DENOTES STREET SIGN       |  |  |

Printed on Monday, February 24, 2025, 3:41 PM by Blaine Bergstresser, P.E. (24-1001 SITE PLAN) (24-1001 SITE PLAN)

PARCEL No. 2433-121-0001-000-5

CONCRETE SLAB

BUILDING FFE = 14.35'



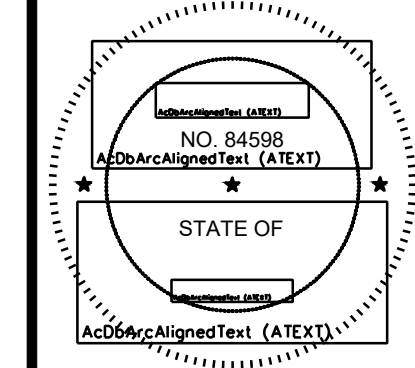
KMA ENGINEERING & SURVEYING, LLC 3001 INDUSTRIAL AVE 2 FORT PIERCE, FL 34946 (772) 969-5505

REVISIONS table with columns for DATE, COMMENT, and a grid for tracking changes.

NOT FOR CONSTRUCTION

PROJECT: SUNRISE LAKES CITY OF FORT PIERCE, FLORIDA

CLIENT: INTEGRITY 1ST CONSTRUCTION GROUP



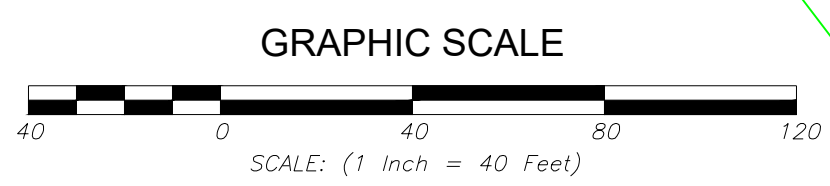
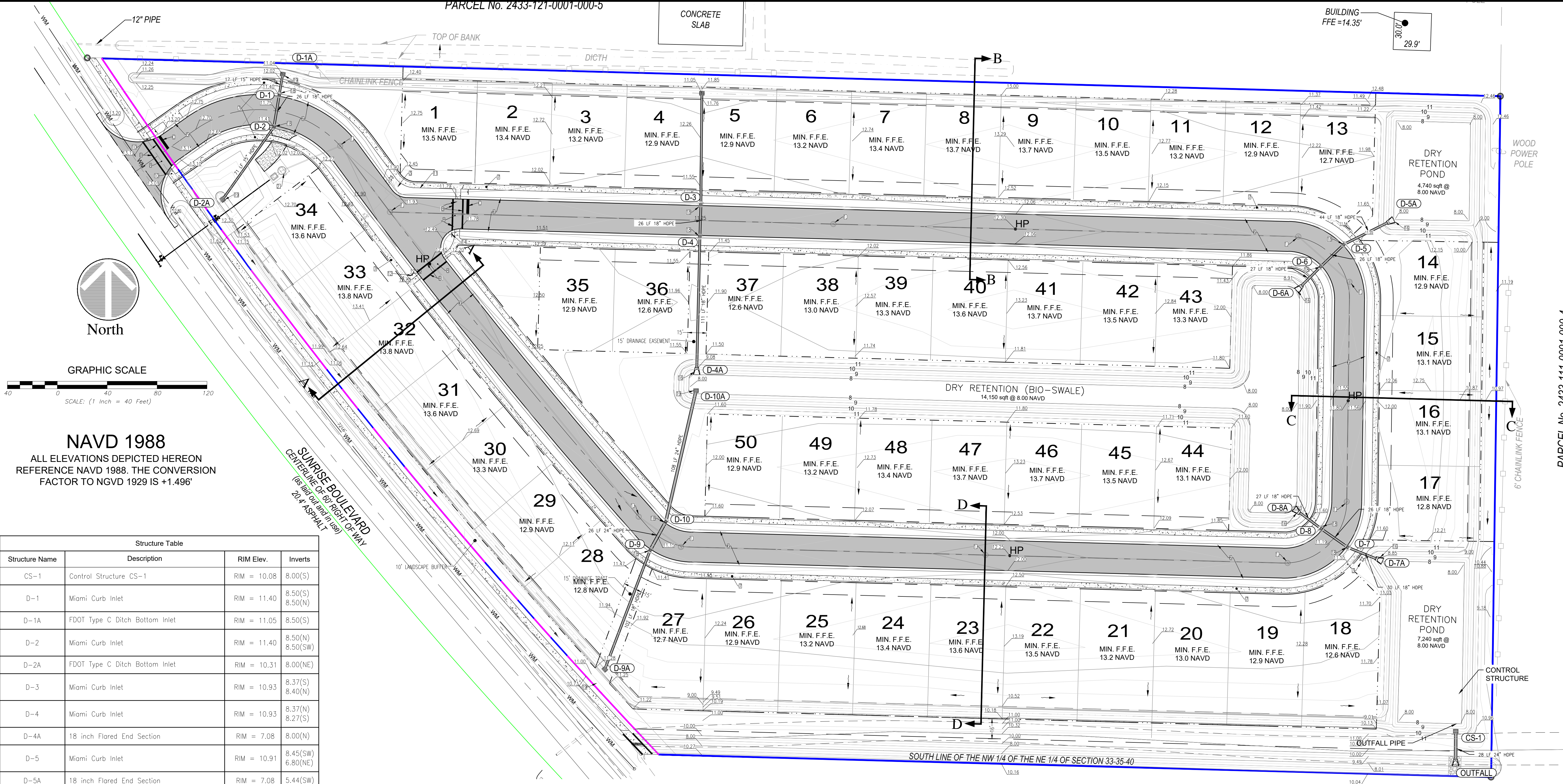
BLAINE BERGSTRESSER, P.E. FLORIDA LICENSE NO. 84598 2/24/2025



PROJECT No.: 24-1001 SCB DRAWN BY: BJB CHECKED BY: BJB DATE: 04/02/2025 CAD I.D.: 24-1001 PGD

SHEET TITLE: MASTER PAVING GRADING & DRAINAGE PLAN

SHEET NUMBER: C-300



NAVD 1988 ALL ELEVATIONS DEPICTED HEREON REFERENCE NAVD 1988. THE CONVERSION FACTOR TO NGVD 1929 IS +1.496'

Structure Table with columns: Structure Name, Description, RIM Elev., Inverts. Lists structures CS-1, D-1 through D-10A, and OUTFALL.

DRAINAGE NOTES

- 1. ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD 1988.
2. SURVEY INFORMATION SHOWN HEREON WAS PROVIDED BY PRINCIPAL MERIDIAN, INC.
3. CONTRACTOR TO CONSTRUCT DRAINAGE STRUCTURES WITH USF GRATES, RIMS AND COVERS AS CALLED OUT OR APPROVED EQUAL. SHOP DRAWINGS ARE TO BE PROVIDED TO ENGINEER FOR APPROVAL PRIOR TO ANY CONSTRUCTION.
4. CONTRACTOR TO REFER TO FDOT DESIGN STANDARD (AND NOT LIMITED TO) INDEX'S 200, 201, 210, 211, 214, 232 & 233 FOR MANHOLE, INLET AND GRATE SPECIFICATIONS. ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED WITH (4) SIDED BEARING HEAVY DUTY H-20 RATED TRAFFIC RIMS AND GRATES.
5. CONTRACTOR TO VERIFY ALL EXISTING UTILITY RINGS AND COVERS ON SITE ARE HEAVY DUTY TRAFFIC RATED. CONTRACTOR TO REPLACE DEFICIENT RINGS AND COVERS WITH HEAVY DUTY TRAFFIC RATED RINGS AND COVERS. CONTRACTOR TO ADJUST RIM ELEVATIONS OF ANY UTILITIES THAT CHANGE IN ELEVATION DURING CONSTRUCTION.
6. ALL CLEAN-OUT COVERS SHOULD BE RATED FOR HEAVY DUTY TRAFFIC.
7. SIDEWALKS AND CROSSWALKS SHALL NOT EXCEED 2% CROSS SLOPE NOR 5% LONGITUDINALLY. GRADES IN ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2% IN ANY DIRECTION. IN CASES OF SIDEWALK LANDINGS AT BUILDING ENTRANCES, GRADES SHALL NOT EXCEED 2% IN ANY DIRECTION. ACCESSIBLE CURB RAMPS SHALL NOT EXCEED 6" IN LENGTH AND 1:12 SLOPE. LANDINGS AT CHANGES IN DIRECTION SHALL BE MINIMUM 60"x60" AND SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
8. CONTRACTOR TO VERIFY ALL EXISTING UTILITY RINGS AND COVERS ON SITE ARE HEAVY DUTY TRAFFIC RATED. CONTRACTOR TO REPLACE DEFICIENT RINGS AND COVERS WITH HEAVY DUTY TRAFFIC RATED RINGS AND COVERS. CONTRACTOR TO ADJUST RIM ELEVATIONS OF ANY UTILITIES THAT CHANGE IN ELEVATION DURING CONSTRUCTION.
9. ROOF DRAIN CONNECTIONS TO DRAINAGE PIPE SHALL BE AS FOLLOWS:
A. FOR ADS N-12 CORRUGATED POLYETHYLENE DRAINAGE PIPE USE ADS DUAL WALL FABRICATED REDUCING SADDLE TEE 4"-24" DIAMETER.
B. FOR RCP DRAINAGE PIPE MAKE CONNECTION PER FDOT INDEX 280. CONCRETE COLLAR FOR JOINING MAINLINE PIPE AND STUB PIPE DETAIL.
C. NOTIFY CONSULTANT FOR CONNECTION METHOD TO STEEL PIPE.
10. ALL DRAINAGE PIPE JOINTS SHALL BE FILTER FABRIC WRAPPED PER FDOT INDEX #280. ALL DRAINAGE PIPE JOINTS NEED TO BE FILTER FABRIC WRAPPED REGARDLESS OF MATERIAL.
11. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
12. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE.
13. EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
14. PRECAST STRUCTURES MAY BE USED AT CONTRACTORS OPTION.
15. ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
16. ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING & COVERS. MANHOLES IN UNPAVED AREAS SHALL BE 6" ABOVE FINISH GRADE. LIDS SHALL BE LABELED "STORM SEWER".
17. ALL CATCH BASINS WITHIN PROPOSED TRAFFIC AREAS SHALL HAVE BICYCLE PROOF GRATES.
18. CONTRACTOR TO FLUSH AND VACUUM ENTIRE ON-SITE STORM WATER SYSTEM UPON COMPLETION OF PROPOSED WORK.
19. MINIMUM DRAINAGE PIPE SHALL BE 15 INCHES PER CITY OF FORT PIERCE LAND DEVELOPMENT ORDINANCE SEC 119-3 DESIGN STANDARDS; STORMWATER MANAGEMENT; APPROVALS.

PARCEL No. 2433-134-0002-000-2

CONSTRUCTION NOTES

- 1 SEWER MANHOLE
2 LIFT STATION
3 FIRE HYDRANT
5 FDOT TYPE 'F' CURB
6 MODIFIED MIAMI CURB
7 CONCRETE SIDEWALK per DETAIL
8 CROSSWALK per DETAILS
9 CURB RAMP per DETAILS
10 2' TACTILE SURFACE
11 R1-1 STOP SIGN
12 W11-2 PEDESTRIAN SIGN w/ W16-7PL
14 D3 STREET NAME SIGN
15 MITERED END SECTION
16 FLARED END SECTION
17 YARD DRAIN per DETAIL
18 MIAMI CURB INLET
19 DITCH BOTTOM INLET

STRIPING NOTES

- A 6" SOLID WHITE
B 12" SOLID WHITE
C 24" SOLID WHITE

LINWORK & SYMBOL LEGEND

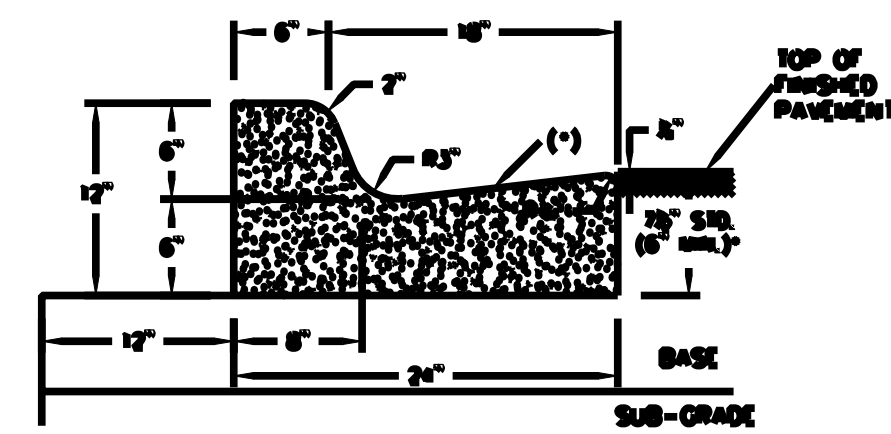
- DENOTES PROPERTY BOUNDARY
--- DENOTES RIGHT-OF-WAY
--- DENOTES CENTERLINE
--- DENOTES EASEMENT
--- DENOTES FENCE LINE
--- DENOTES DRAINAGE PIPE
(S) DENOTES SEWER MANHOLE
--- DENOTES FIRE HYDRANT
--- DENOTES GATE VALVE
--- DENOTES LIGHT POLE
--- DENOTES STREET SIGN
--- DENOTES RUNOFF OVERLAND FLOW
--- DENOTES PROPOSED ELEVATIONS
--- DENOTES EXISTING GRADES
[ ] DENOTES DITCH BOTTOM INLET
(J) DENOTES JUNCTION BOX
(Y) DENOTES YARD DRAIN
(D) DENOTES DRAINAGE STRUCTURE
[ ] DENOTES MITERED/FLARED END SECTION

HATCH PATTERN LEGEND

- [ ] DENOTES ASPHALT PAVEMENT
[ ] DENOTES CONCRETE PAVEMENT
[ ] DENOTES RIGHT-OF-WAY DEDICATION

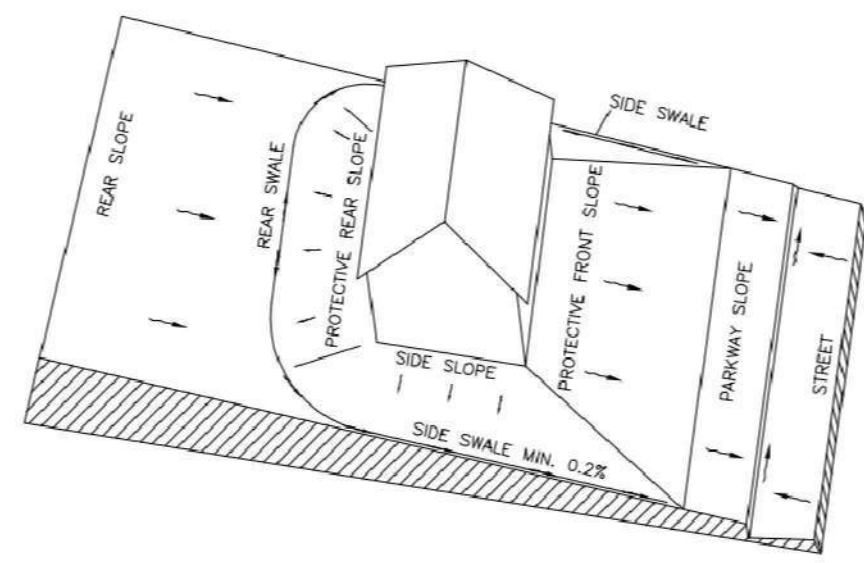
Printed on Monday, February 24, 2025, 3:41 PM by Blaine Bergstresser, P.E. (772) 969-5505





• WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6" UNLESS OTHERWISE SHOWN ON THE PLANS. ASPHALT SURFACE ON HIGH SIDE TO BE FLUSH WITH LIP OF CURB OR CURB & GUTTER.

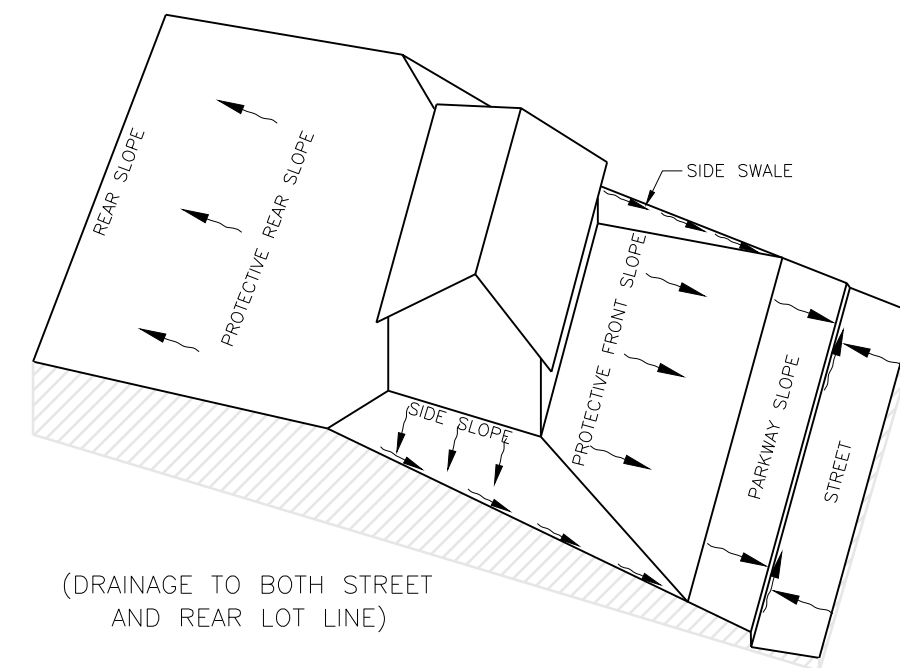
**TYPE "F" CURB AND GUTTER**  
N.T.S.



(DRAINAGE TO STREET)

- NOTES**
1. ALL SLOPES GREATER THAN 6:1 SHALL BE SODDED.
  2. ROOF RUNOFF FROM SIDES AND REAR OF HOUSES SHALL BE DIRECTED TOWARD SIDE AND REAR YARD SWALES ACCORDINGLY.

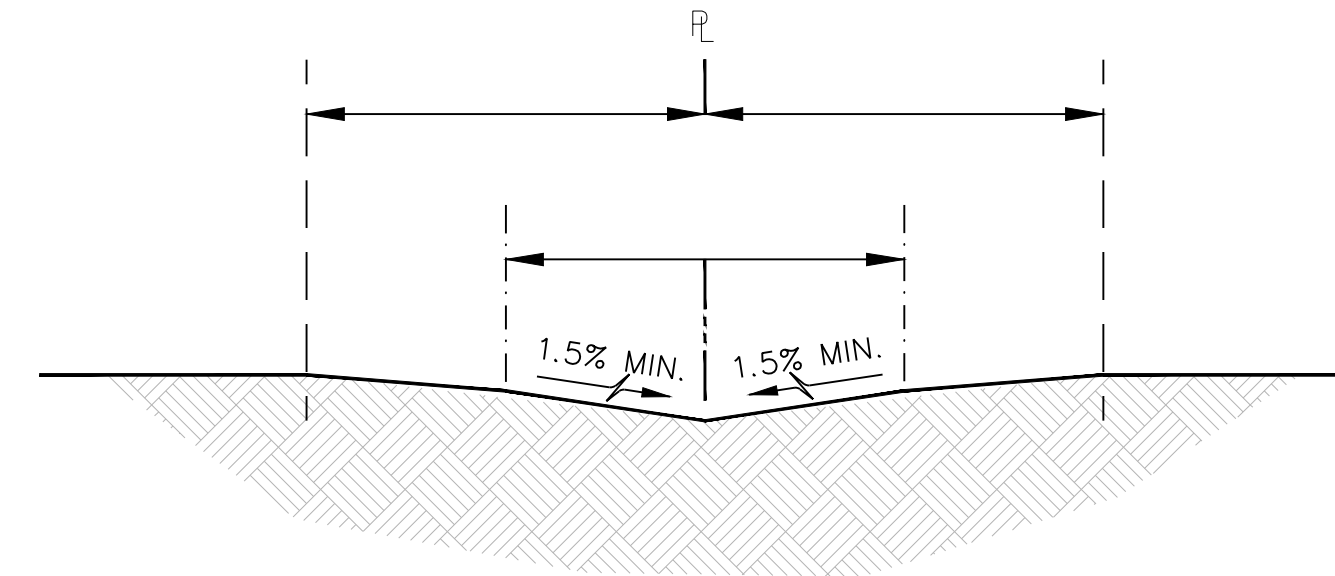
**TYPE 'A' LOT GRADING DETAIL**  
N.T.S.



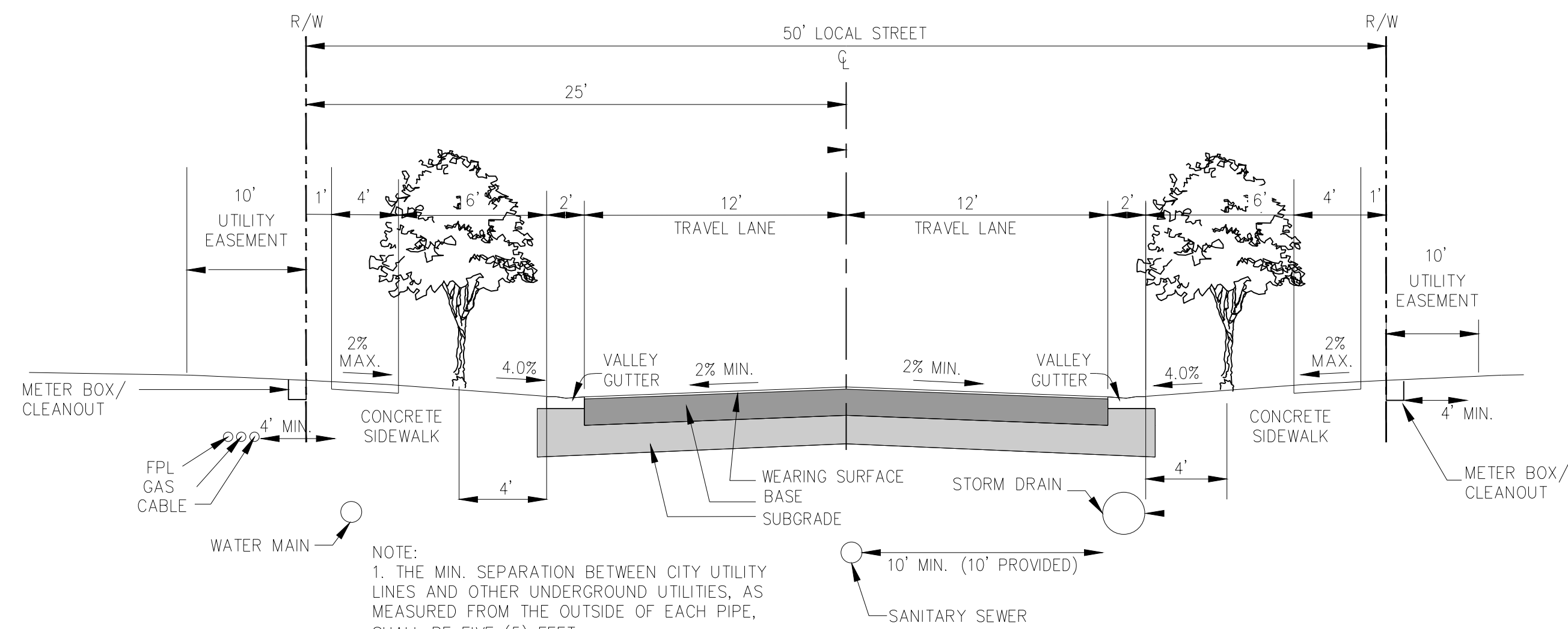
(DRAINAGE TO BOTH STREET AND REAR LOT LINE)

- NOTES**
1. ALL SLOPES GREATER THAN 6:1 SHALL BE SODDED.
  2. ROOF RUNOFF FROM SIDES AND REAR OF HOUSES SHALL BE DIRECTED TOWARD SIDE AND REAR YARD SWALES ACCORDINGLY.

**TYPE 'B' LOT GRADING DETAIL**  
N.T.S.

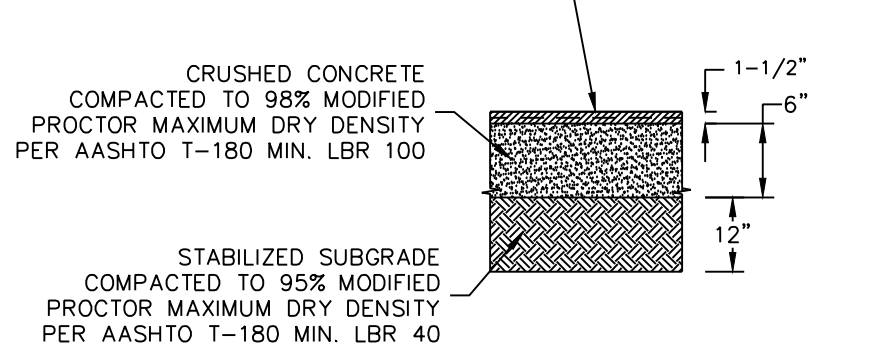


**TYPICAL LOT SWALE SECTION**  
N.T.S.

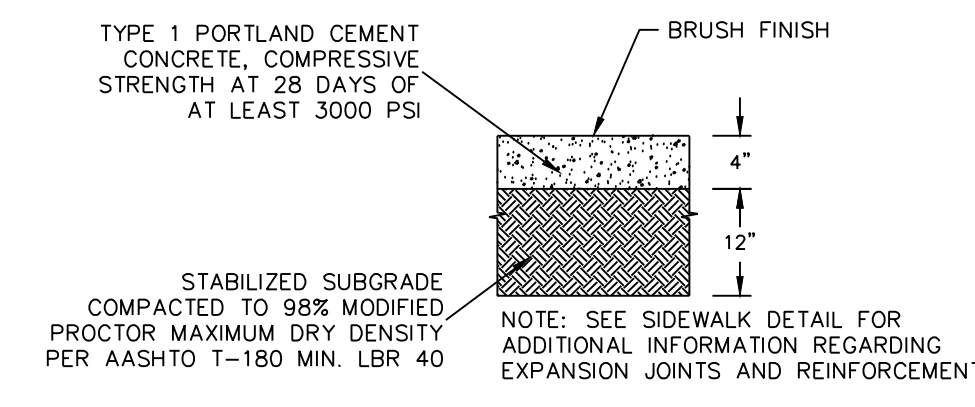


NOTE:  
1. THE MIN. SEPARATION BETWEEN CITY UTILITY LINES AND OTHER UNDERGROUND UTILITIES, AS MEASURED FROM THE OUTSIDE OF EACH PIPE, SHALL BE FIVE (5) FEET.

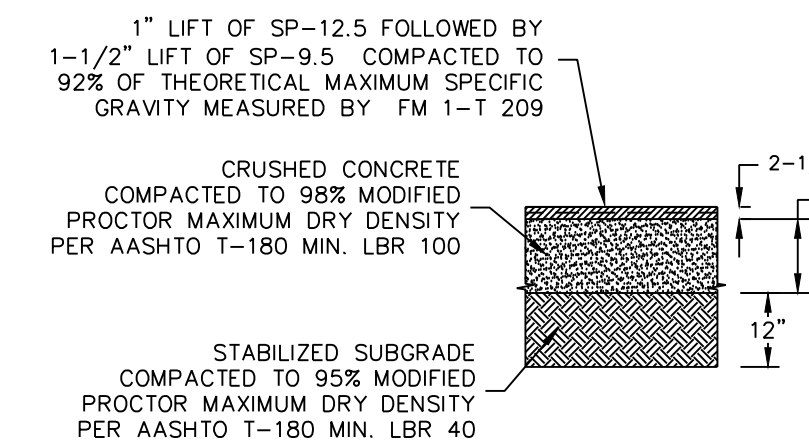
1-1/2" LIFT OF SP-9.5 COMPACTED TO 92% OF THEORETICAL MAXIMUM SPECIFIC GRAVITY MEASURED BY FM 1-T 209



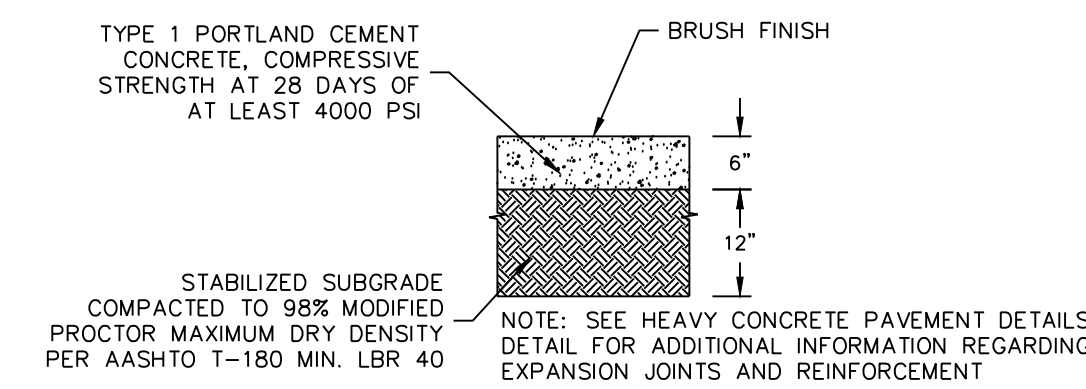
**STANDARD DUTY ASPHALT**  
N.T.S.



**STANDARD DUTY CONCRETE**  
N.T.S.



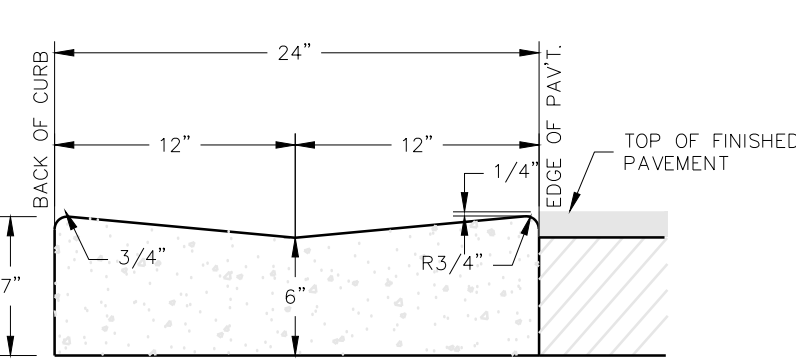
**HEAVY DUTY ASPHALT**  
N.T.S.



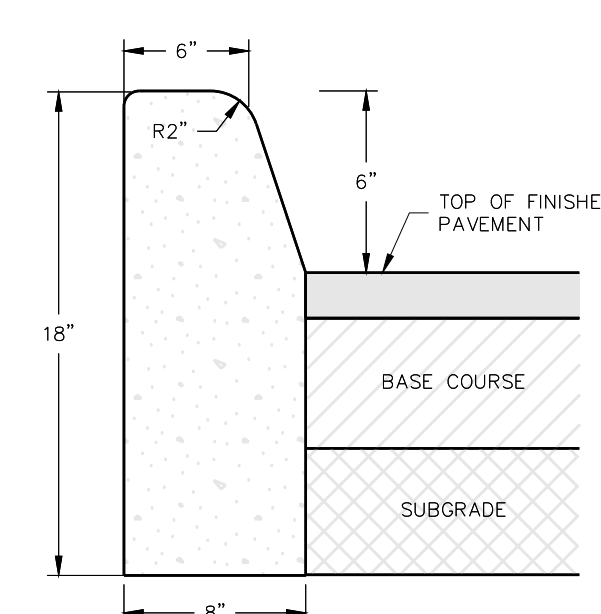
**HEAVY DUTY CONCRETE**  
N.T.S.

NOTE:  
CONTRACTOR TO REFER TO THE GEOTECHNICAL REPORT FOR SITE WORK SPECIFICATIONS.

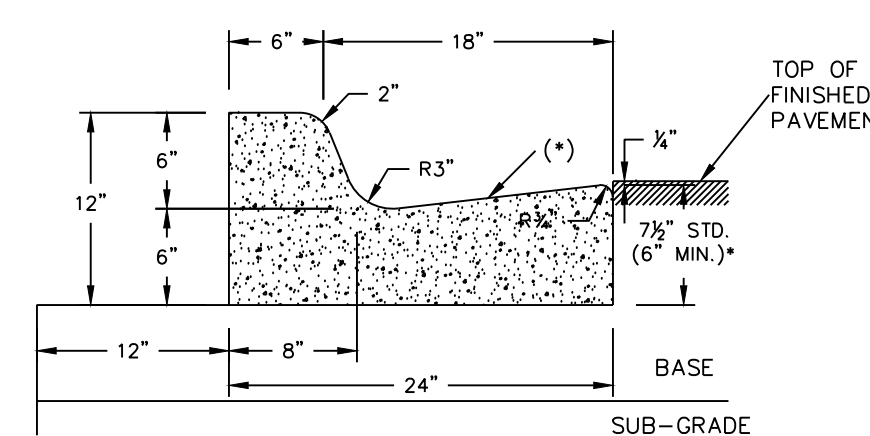
CRUSHED CONCRETE SHALL BE FROM AN FDOT APPROVED PLANT.  
CRUSHED CONCRETE GRADATION SHALL BE AVAILABLE ON SITE AND SUBMITTED FOR THE AS-BUILT.



**VALLEY GUTTER SECTION**  
N.T.S.

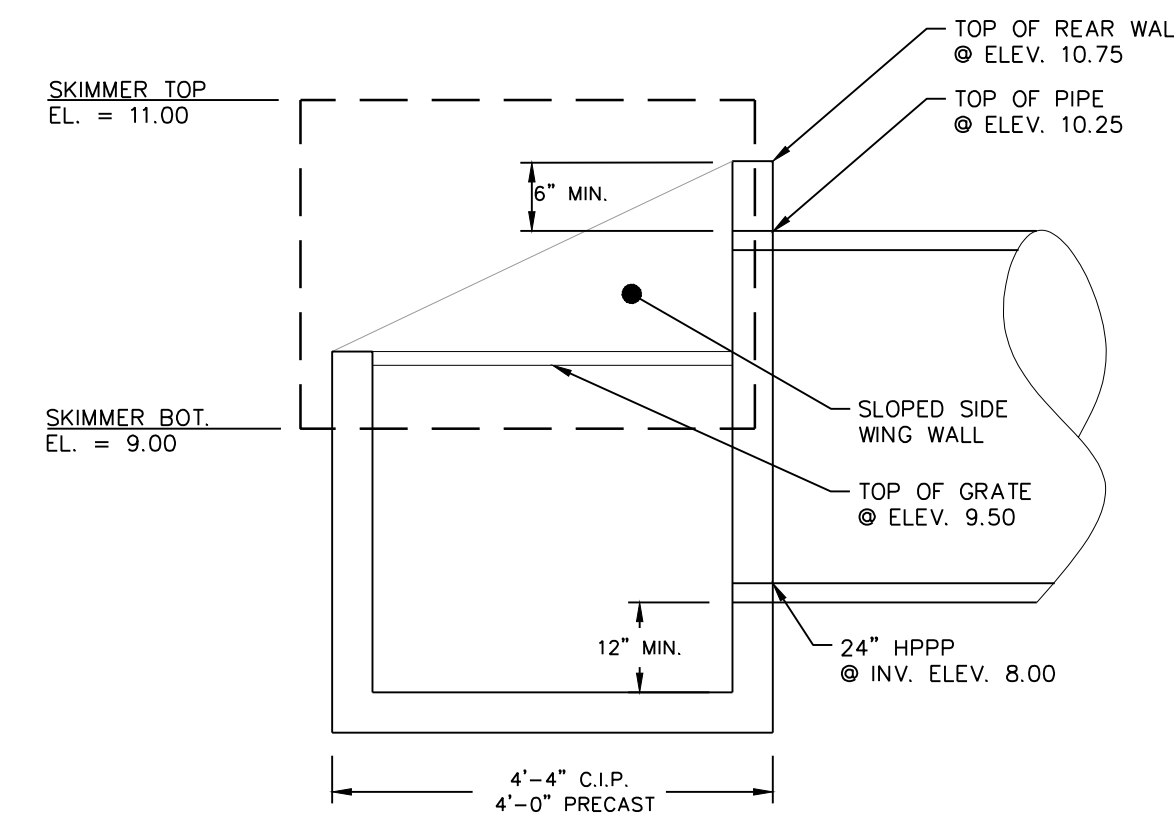


**TYPE "D" CURB**  
N.T.S.



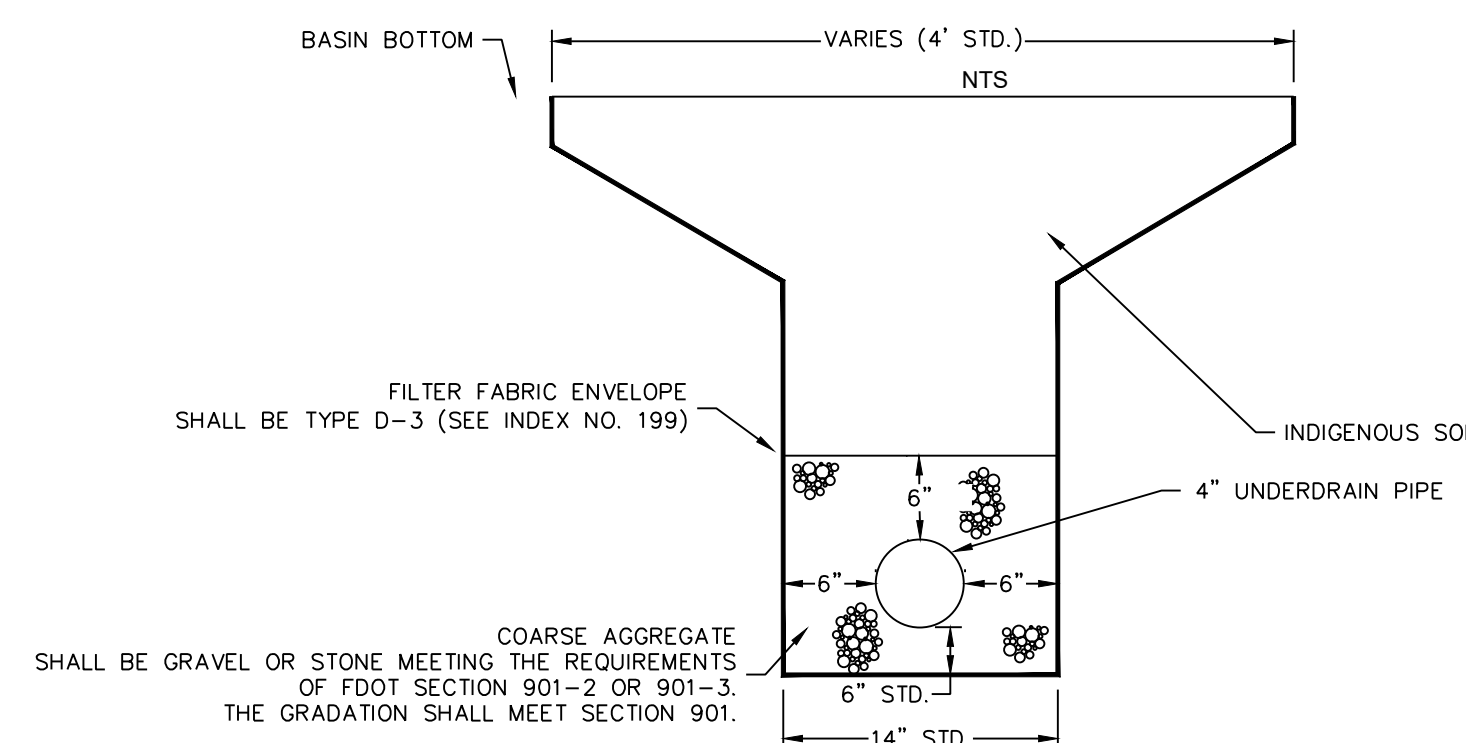
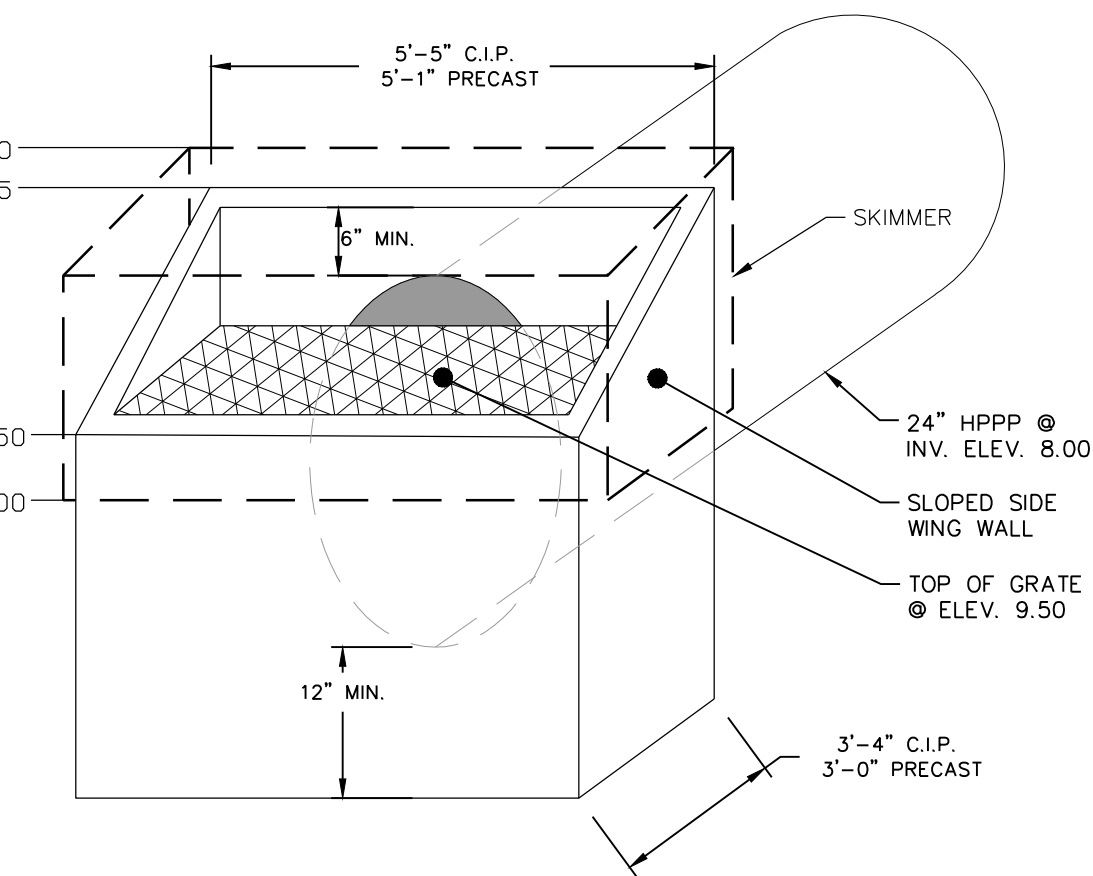
**TYPE "F" CURB AND GUTTER**  
N.T.S.

• WHEN USED ON HIGH SIDE OF ROADWAYS, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT AND THE THICKNESS OF THE LIP SHALL BE 6" UNLESS OTHERWISE SHOWN ON THE PLANS. ASPHALT SURFACE ON HIGH SIDE TO BE FLUSH WITH LIP OF CURB OR CURB & GUTTER.

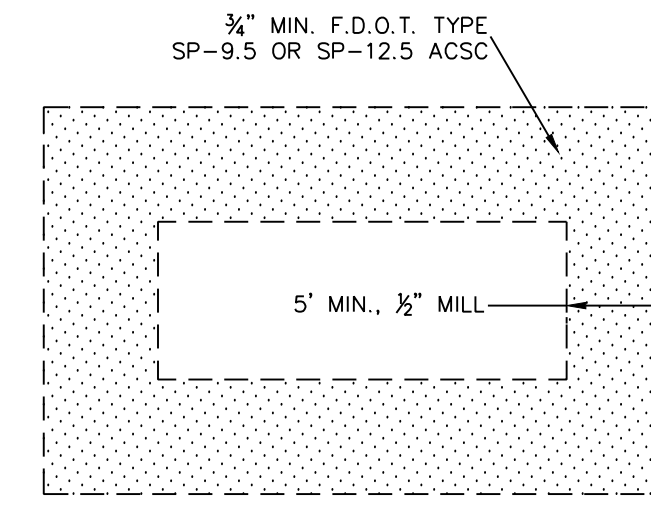


CONTROL STRUCTURE NOTES:  
1. CONTRACTOR TO REFER TO FDOT FY 2021-22 STANDARD PLANS INDEX 425-052 FOR REBAR SPACING AND SIZING.

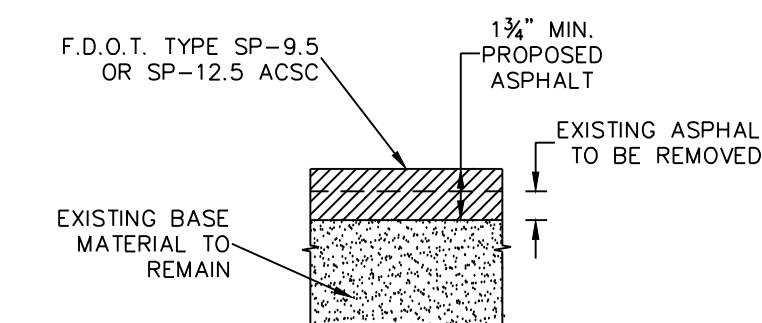
**CONTROL STRUCTURE (CS-01)**  
**FDOT TYPE 'D' STRUCTURE**



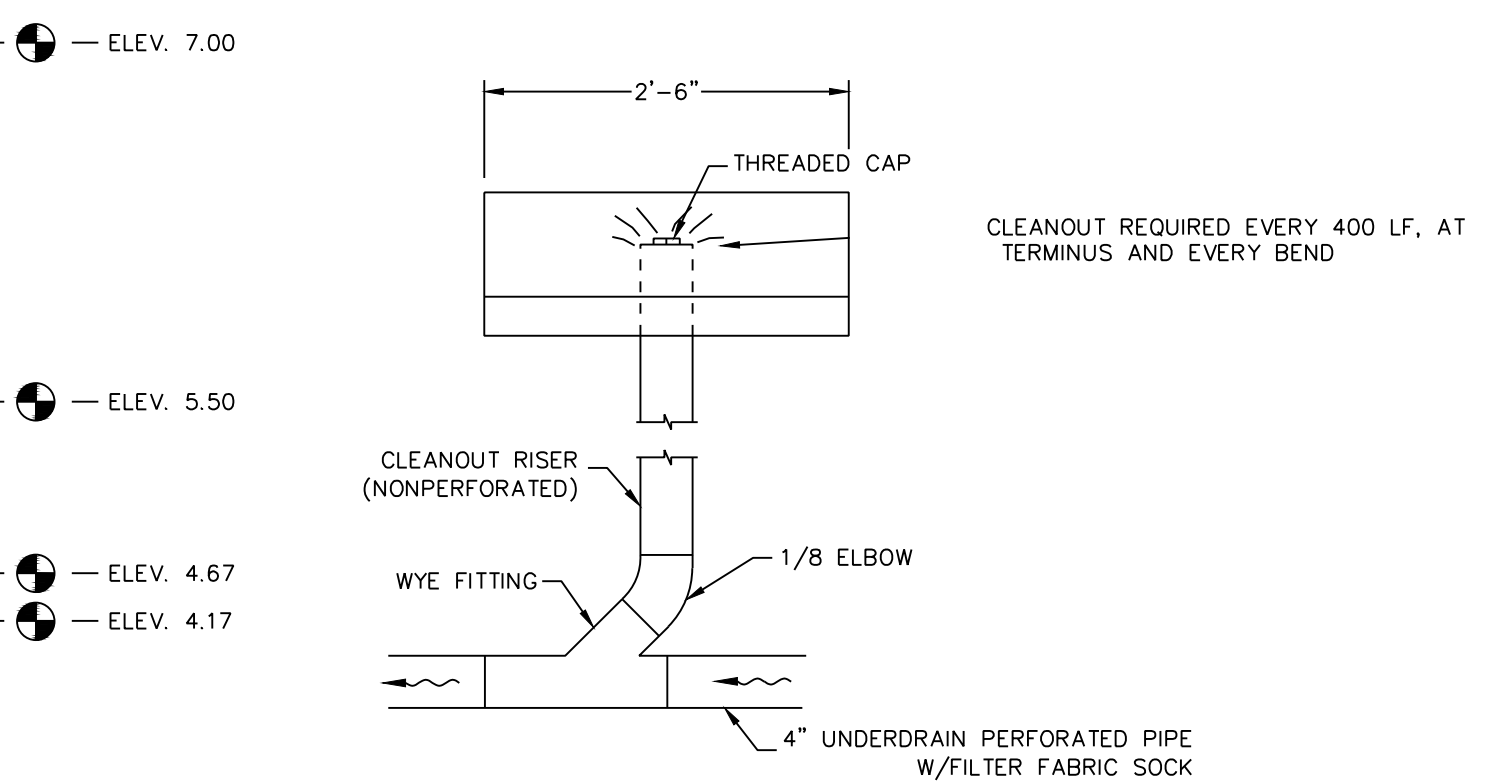
**UNDERDRAIN TRENCH**  
N.T.S.



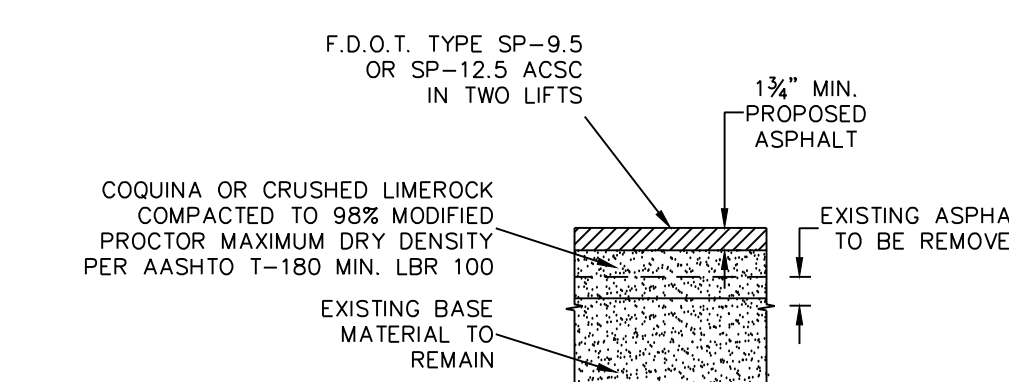
**OPTION #1**  
MILL AND RESURFACE



**OPTION #2**  
PAVEMENT REMOVAL AND OVERLAY

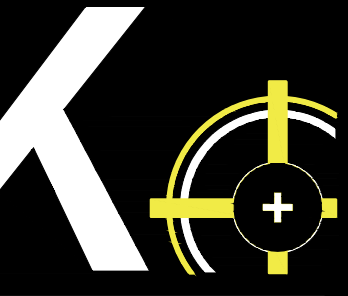


CLEANOUT REQUIRED EVERY 400 LF. AT TERMINUS AND EVERY BEND



**OPTION #3**  
PAVEMENT REMOVAL AND OVERLAY WITH ADDITIONAL BASE MATERIAL

**ASPHALT PAVEMENT RESTORATION**  
N.T.S.



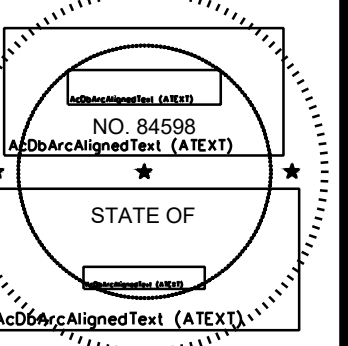
**KMA**  
ENGINEERING & SURVEYING, LLC  
301 INDUSTRIAL AVE. 2  
FORT PIERCE, FL 34946  
(772) 969-6505  
FBPE C.O.A. # 33705

| REVISIONS: |          |
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| BY:        | COMMENT: |
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**NOT FOR CONSTRUCTION**

PROJECT: **SUNRISE LAKES**  
CITY OF FORT PIERCE, FLORIDA

CLIENT: **INTEGRITY 1ST CONSTRUCTION GROUP**



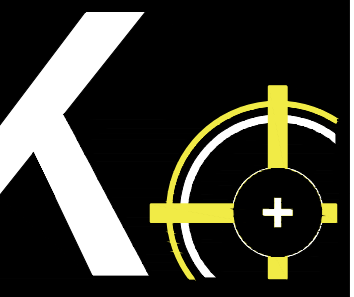
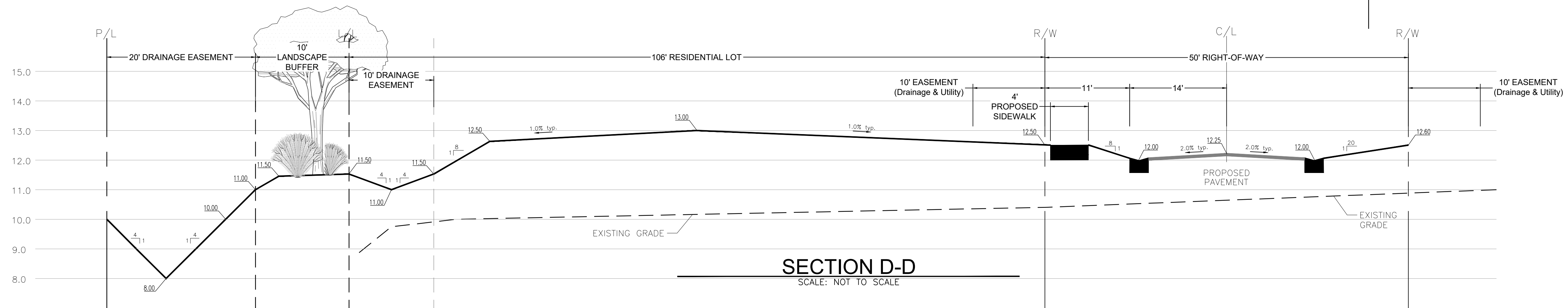
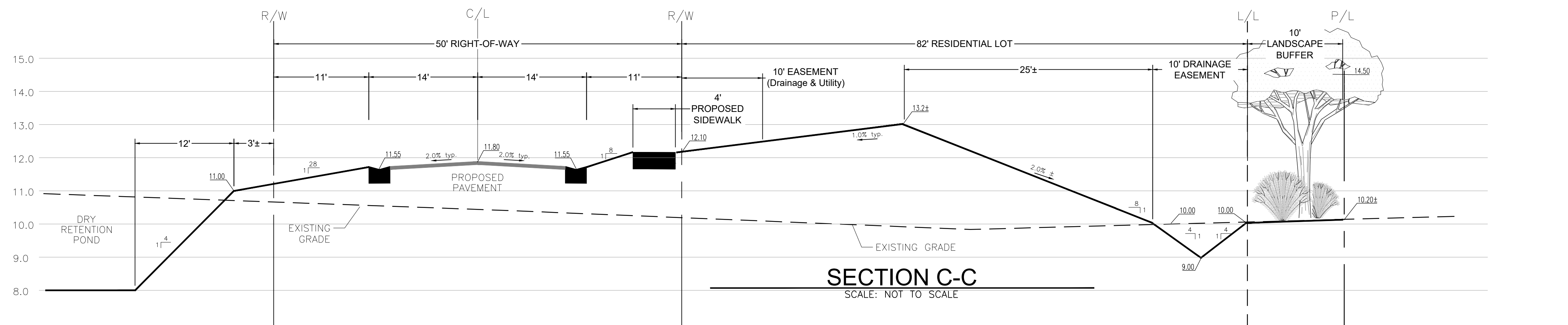
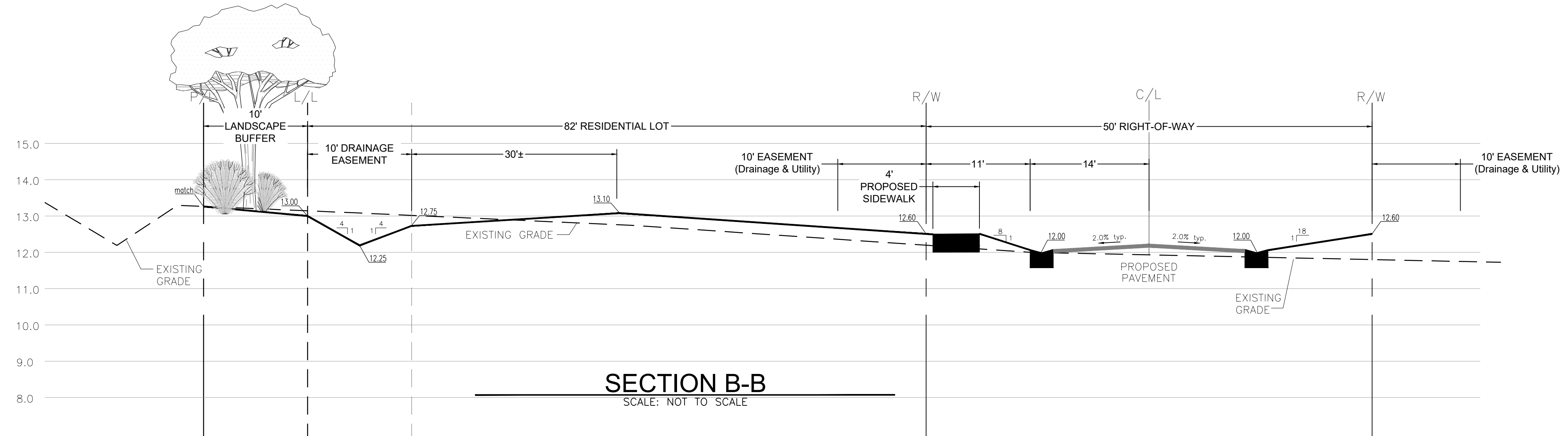
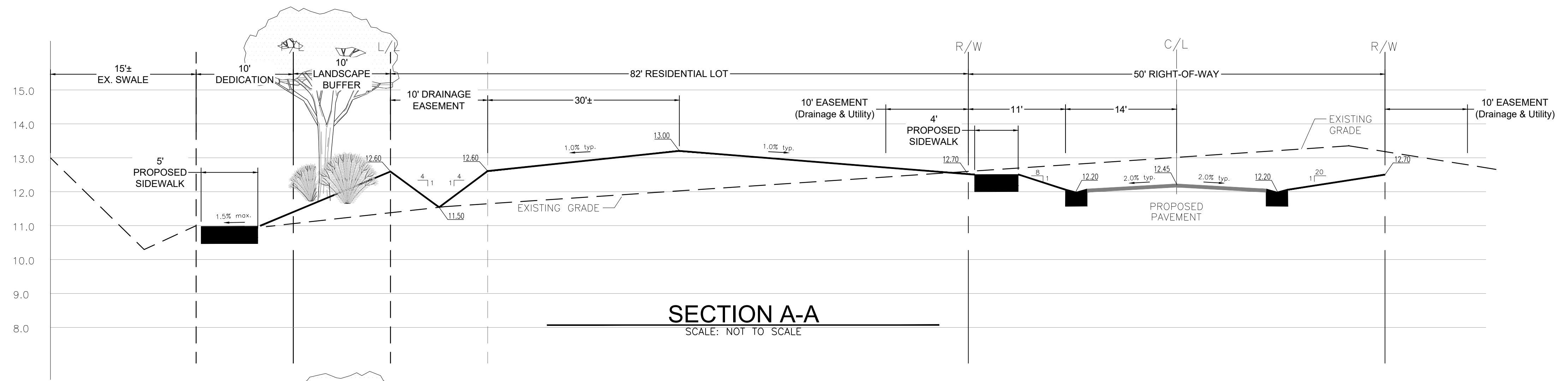
BLAINE BERGSTRESSER, P.E.  
FLORIDA LICENSE No. 84598  
2/24/2025



PROJECT No.: 24-1001  
DRAWN BY: SCB  
CHECKED BY: BBB  
DATE: 04/02/2025  
CAD ID: 24-1001 PGD

SHEET TITLE: **PAVING GRADING & DRAINAGE DETAILS**

SHEET NUMBER: **C-302**



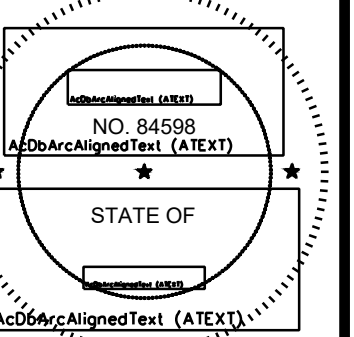
**KMA**  
ENGINEERING & SURVEYING, LLC  
3001 INDUSTRIAL AVE 2  
FORT PIERCE, FL 34946  
(772) 969-5505  
FBPE C.O.A. # 33705

| REVISIONS: |          |
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| BY:        | COMMENT: |
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|            |          |
|            |          |

**NOT FOR CONSTRUCTION**

PROJECT: **SUNRISE LAKES**  
CITY OF FORT PIERCE, FLORIDA

CLIENT: **INTEGRITY 1ST CONSTRUCTION GROUP**



BLAINE BERGSTRESSER, P.E.  
FLORIDA LICENSE No. 84598  
2/24/2025

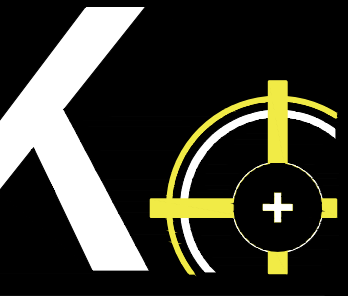


PROJECT No.: 24-1001  
DRAWN BY: SCB  
CHECKED BY: BRB  
DATE: 04/02/2025  
CAD I.D.: 24-1001 PGD

SHEET TITLE:  
**GRADING SECTIONS**

SHEET NUMBER:  
**C-303**





**KMA**

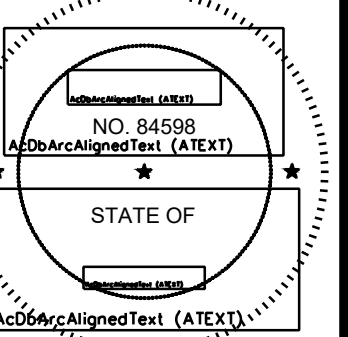
ENGINEERING & SURVEYING, LLC  
301 INDUSTRIAL AVE 2  
FORT PIERCE, FL 34946  
(772) 969-5505  
P.E. C.O.A. # 33705

| REVISIONS: |       |          |
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| BY:        | DATE: | COMMENT: |
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|            |       |          |

**NOT FOR CONSTRUCTION**

PROJECT:  
**SUNRISE LAKES**  
CITY OF FORT PIERCE,  
FLORIDA

CLIENT:  
**INTEGRITY 1ST  
CONSTRUCTION GROUP**



BLAINE BERGSTRESSER, P.E.  
FLORIDA LICENSE No. 84598  
2/24/2025

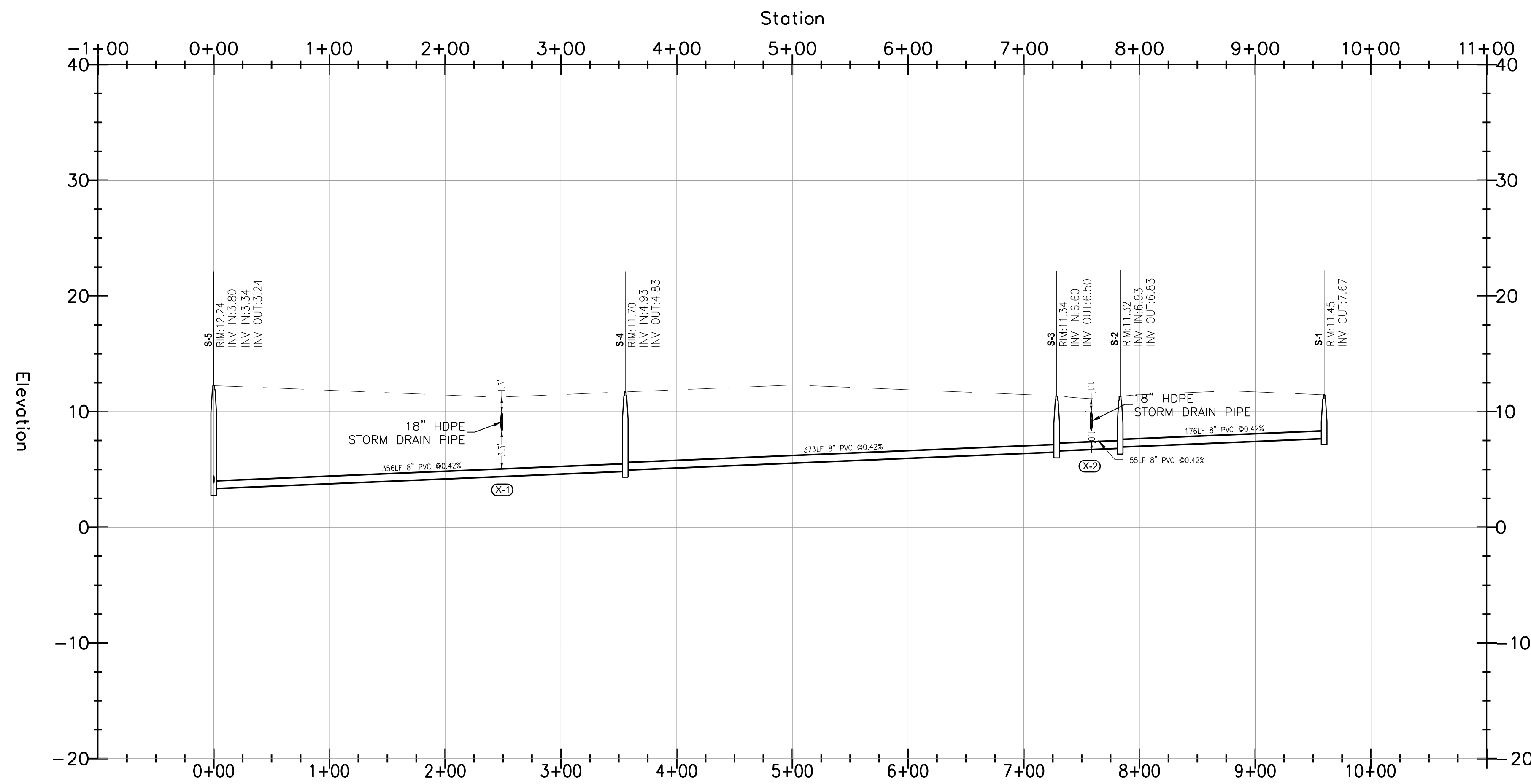


PROJECT No.: 24-1001  
DRAWN BY: SCB  
CHECKED BY: BRB  
DATE: 04/02/2024  
CAD I.D.: 24-1001 UTILITIES

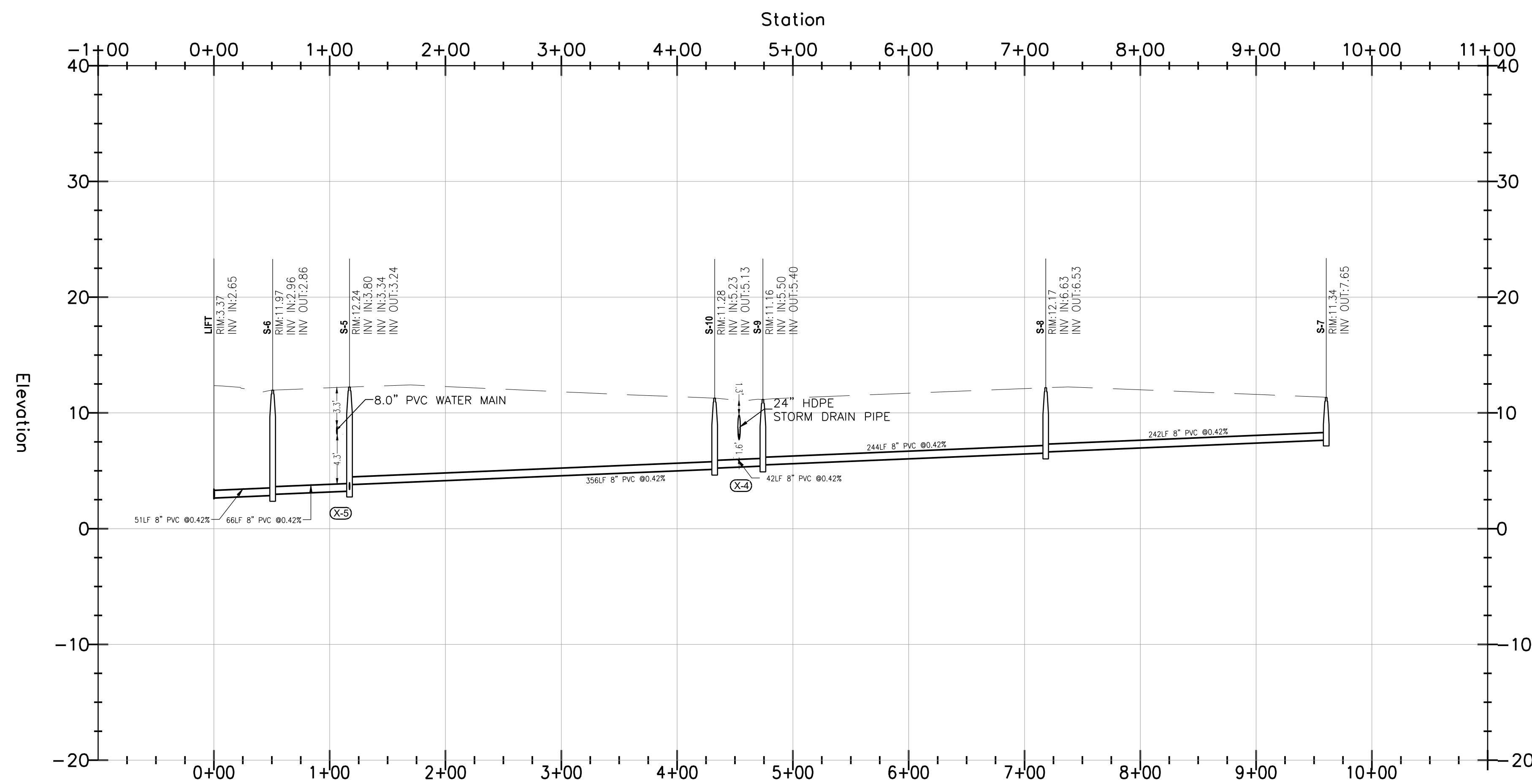
SHEET TITLE:  
**SEWER PROFILES**

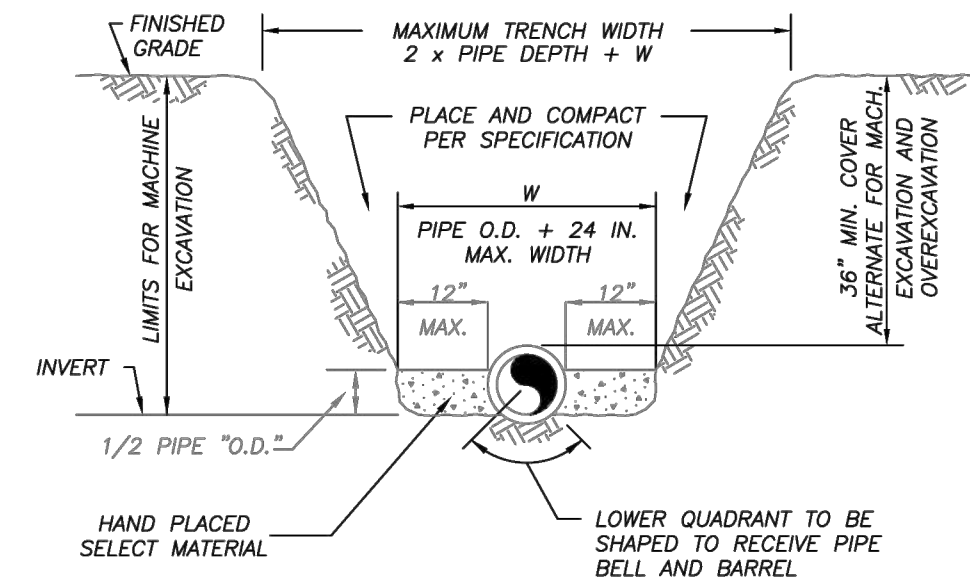
SHEET NUMBER:  
**C-401**

### SEWER MAIN – North PROFILE



### SEWER MAIN – SOUTH PROFILE



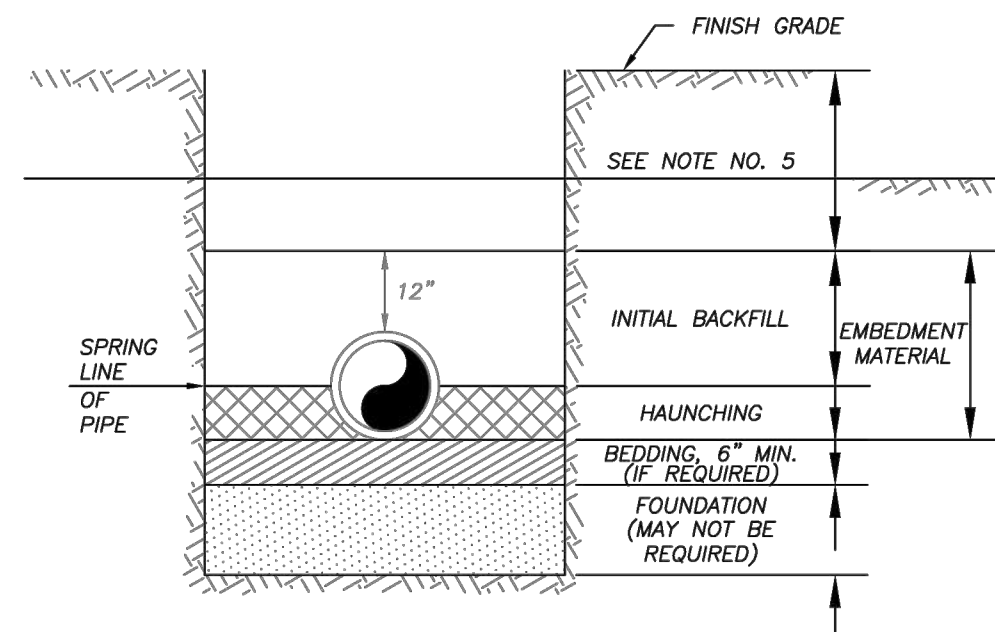


**NOTES:**

- 1) THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF THE FLORIDA TRENCH SAFETY ACT.
- 2) INITIAL BACKFILL SHALL BE HAND PLACED TO 12" ABOVE THE PIPE. BACKFILL SHALL BE MECHANICALLY TAMPED TO A MINIMUM OF 100% OF MAX. DENSITY AS DETERMINED BY AASHTO METHOD T-99.

TYPICAL TRENCH DETAIL  
N.T.S.

|                                |                   |            |              |
|--------------------------------|-------------------|------------|--------------|
| TYPICAL TRENCH DETAIL          |                   | M-1        |              |
| DESIGNED BY: J.C.              | DESIGNED BY: J.C. | DATE: 2015 | SHEET 1 OF 1 |
| FT. PIERCE UTILITIES AUTHORITY |                   |            |              |

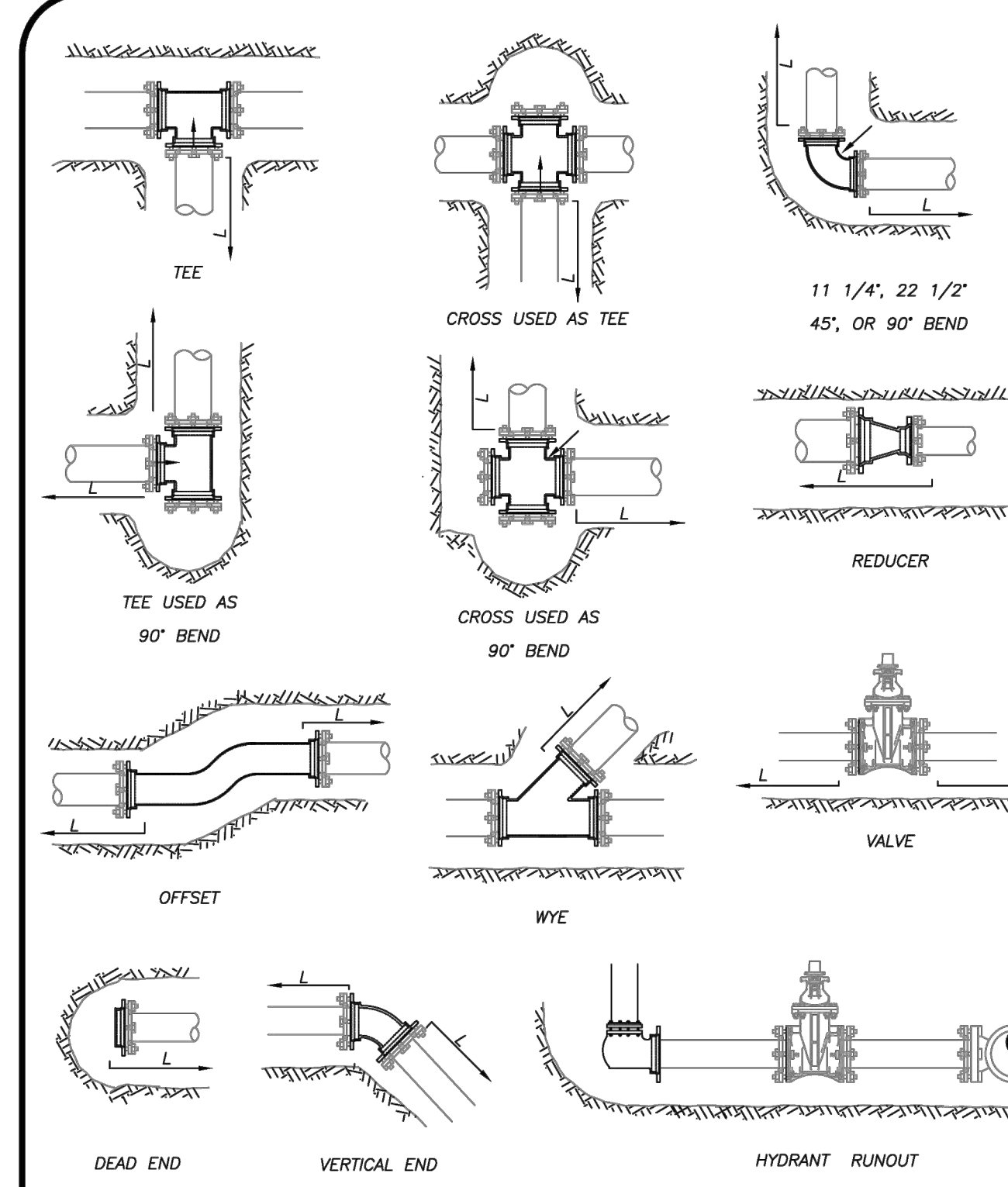


**NOTES:**

- 1) IN CERTAIN SOIL CONDITIONS A FOUNDATION MAY BE REQUIRED.
- 2) BEDDING IS REQUIRED PRIMARILY TO BRING THE TRENCH BOTTOM UP TO GRADE. BEDDING MATERIALS SHALL PROVIDE A UNIFORM AND ADEQUATE LONGITUDINAL SUPPORT UNDER THE PIPE.
- 3) HAUNCHING MATERIAL SHALL BE HAND PLACED TO THE SPRINGLINE OF THE PIPE. MATERIAL SHALL BE CONSOLIDATED UNDER THE PIPE AND HAND TAMPED TO PROVIDE ADEQUATE SIDE SUPPORT.
- 4) INITIAL BACKFILL MATERIAL SHALL BE HAND PLACED TO 12" ABOVE THE TOP OF PIPE. THE SOIL SHALL BE COMPACTED TO 100% MAX. DENSITY (AASHTO T-99).
- 5) BACKFILL SHALL BE COMPACTED TO 100% OF MAX. DENSITY AS PER AASHTO T-99, TO A POINT 30" BELOW PROPOSED PROFILE GRADE OR EXISTING GRADE. THE FINAL 30" OF BACKFILL SHALL BE COMPACTED TO 98% OF MAX. DENSITY AS PER AASHTO T-100.
- 6) DENSITY TEST SHALL BE PERFORMED AT AREAS DETERMINED BY THE UTILITIES ENGINEER OR PERMIT AGENCY HAVING JURISDICTION, AT THE CONTRACTORS EXPENSE.
- 7) CONTRACTOR TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL TRENCH SAFETY REGULATIONS.

BACKFILLING REQUIREMENTS  
N.T.S.

|                                |                   |            |              |
|--------------------------------|-------------------|------------|--------------|
| BACKFILLING REQUIREMENTS       |                   | M-2        |              |
| DESIGNED BY: J.C.              | DESIGNED BY: J.C. | DATE: 2015 | SHEET 1 OF 1 |
| FT. PIERCE UTILITIES AUTHORITY |                   |            |              |



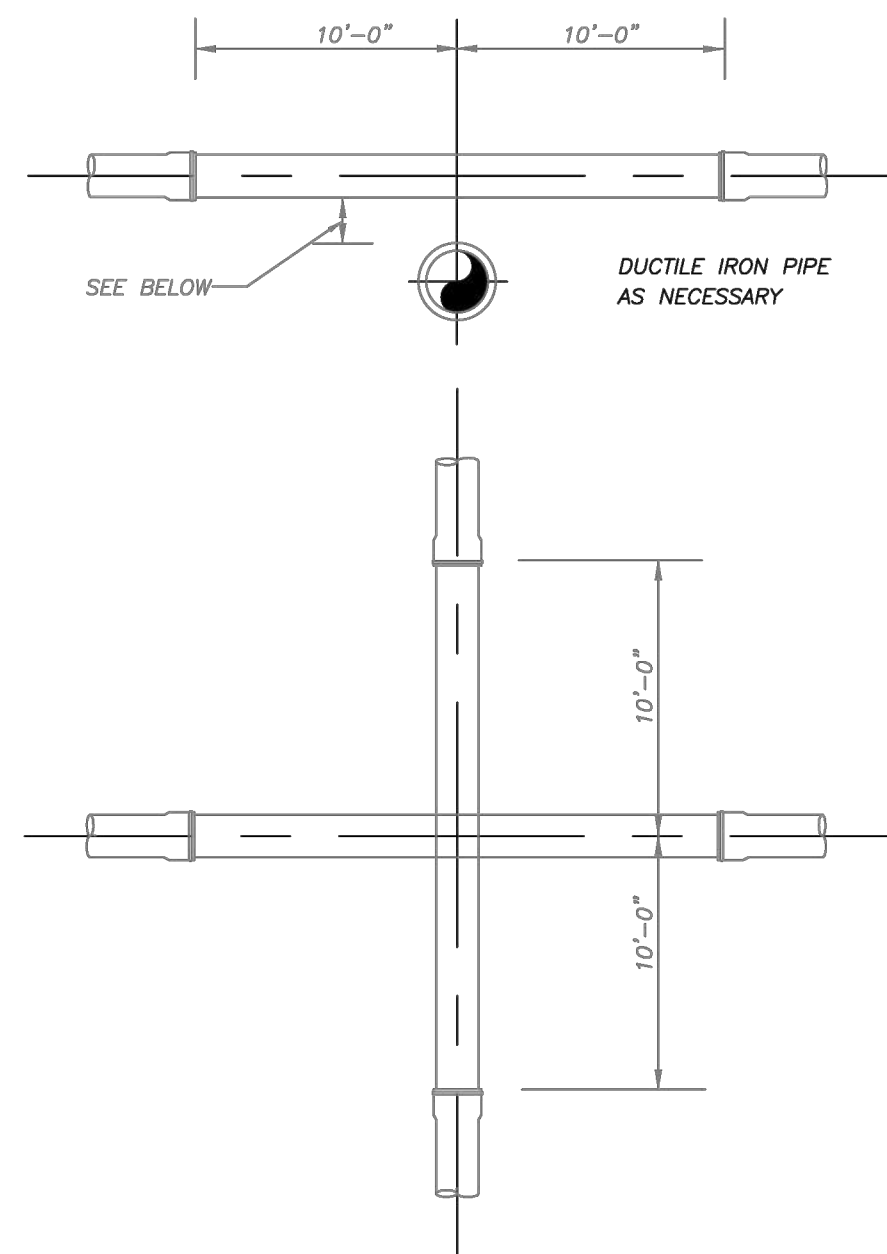
MECHANICAL JOINT ANCHORING REQUIREMENTS  
N.T.S.

|   |                   |            |              |
|---|-------------------|------------|--------------|
| MECHANICAL JOINT ANCHORING REQUIREMENTS |                   | M-3        |              |
| DESIGNED BY: J.C.                       | DESIGNED BY: J.C. | DATE: 2015 | SHEET 1 OF 1 |
| FT. PIERCE UTILITIES AUTHORITY          |                   |            |              |

**MECHANICAL JOINT RESTRAINT NOTES**

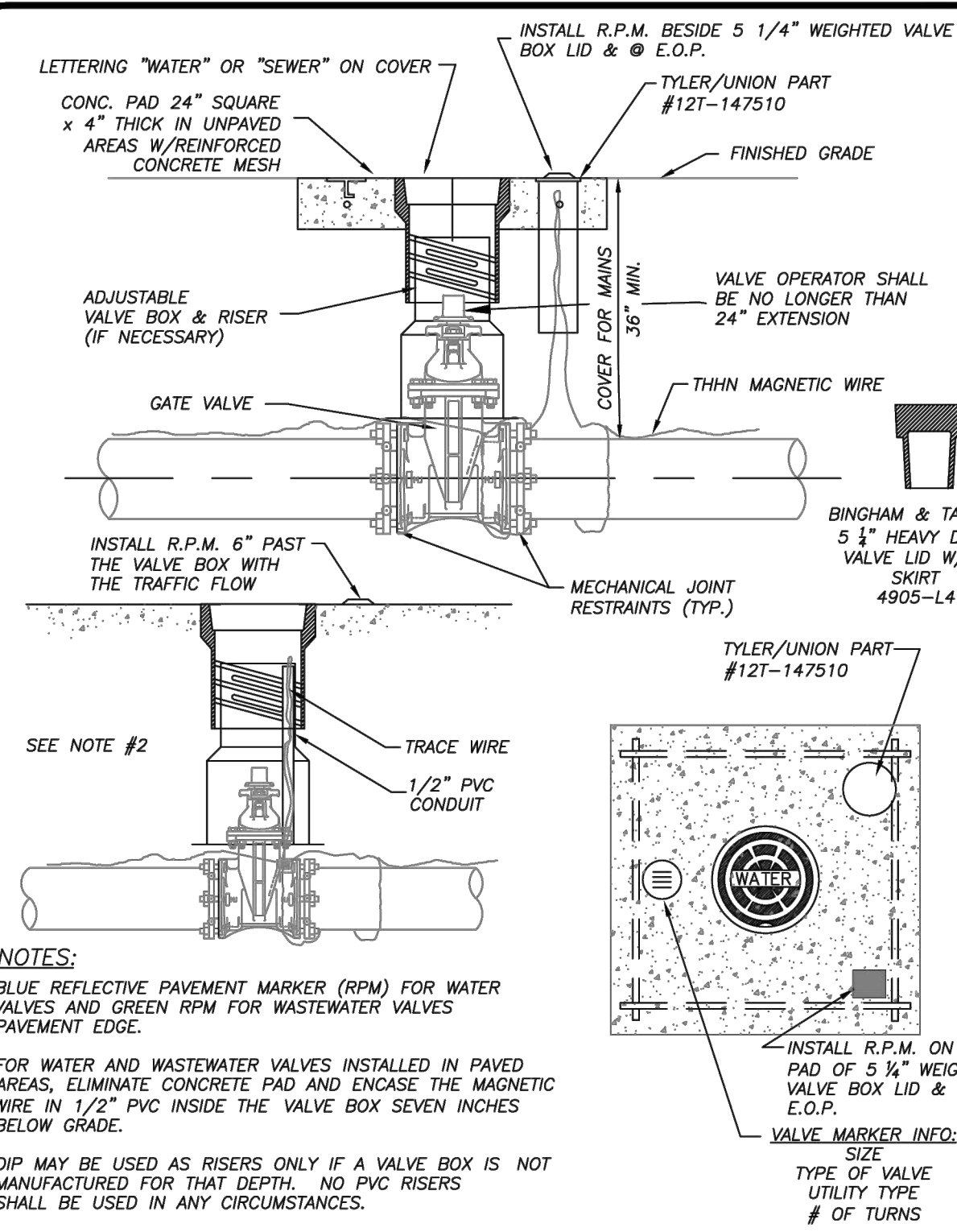
**NOTES:**

- 1) THE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING THE REQUIRED LENGTH TO BE RESTRAINED BASED UPON THE PROJECT AREA SOIL TYPE, PROPOSED TRENCH CONDITIONS AND DEPTH, PRESSURE OF 150 PSI, AND A SAFETY FACTOR OF TWO (2). A DRAWING OF EVERY TYPICAL FITTING ASSEMBLY WITHIN THE PROJECT SHALL BE SUBMITTED WHICH REFLECTS THE RESTRAINT DETAIL PROPOSED FOR USE, INCLUDING LENGTH OF PIPE RESTRAINT.
- 2) REQUIRED RESTRAINED LENGTH CALCULATIONS SHALL ALSO CONSIDER THE CONDITIONS OF OTHER BENDS OR FITTINGS THAT WILL BE LOCATED WITHIN THE CALCULATED RESTRAINED LENGTH (L) OF THE BEND OR FITTING IN QUESTION.
- 3) EVERY JOINT OR FITTING MUST BE RESTRAINED ON BOTH SIDES OF THE BEND AND FOR TEES ALONG THE BEND ALSO.



UTILITY CROSSING DETAIL  
N.T.S.

|                                |                   |            |              |
|--------------------------------|-------------------|------------|--------------|
| UTILITY CROSSING DETAIL        |                   | M-5        |              |
| DESIGNED BY: J.C.              | DESIGNED BY: J.C. | DATE: 2015 | SHEET 1 OF 1 |
| FT. PIERCE UTILITIES AUTHORITY |                   |            |              |



TYPICAL GATE VALVE & VALVE BOX DETAIL  
N.T.S.

|                                       |                   |            |              |
|---------------------------------------|-------------------|------------|--------------|
| TYPICAL GATE VALVE & VALVE BOX DETAIL |                   | M-6        |              |
| DESIGNED BY: J.C.                     | DESIGNED BY: J.C. | DATE: 2015 | SHEET 1 OF 1 |
| FT. PIERCE UTILITIES AUTHORITY        |                   |            |              |



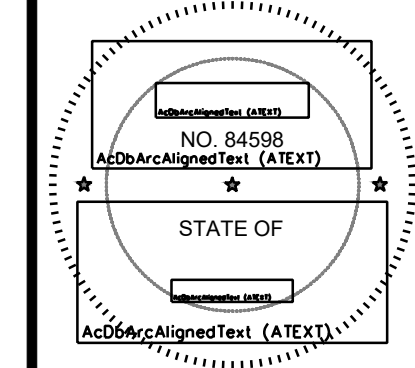
**KMA**  
ENGINEERING & SURVEYING, LLC  
3001 INDUSTRIAL AVE 2  
FORT PIERCE, FL 34946  
(772) 969-5505  
FPUE C.O.A. # 33705

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| REVISIONS: |          |
| BY: DATE:  | COMMENT: |
|            |          |
|            |          |

**NOT FOR CONSTRUCTION**

PROJECT: **SUNRISE LAKES**  
CLIENT: **INTEGRITY 1ST CONSTRUCTION GROUP**  
CITY OF FORT PIERCE, FLORIDA

INTEGRITY 1ST CONSTRUCTION GROUP



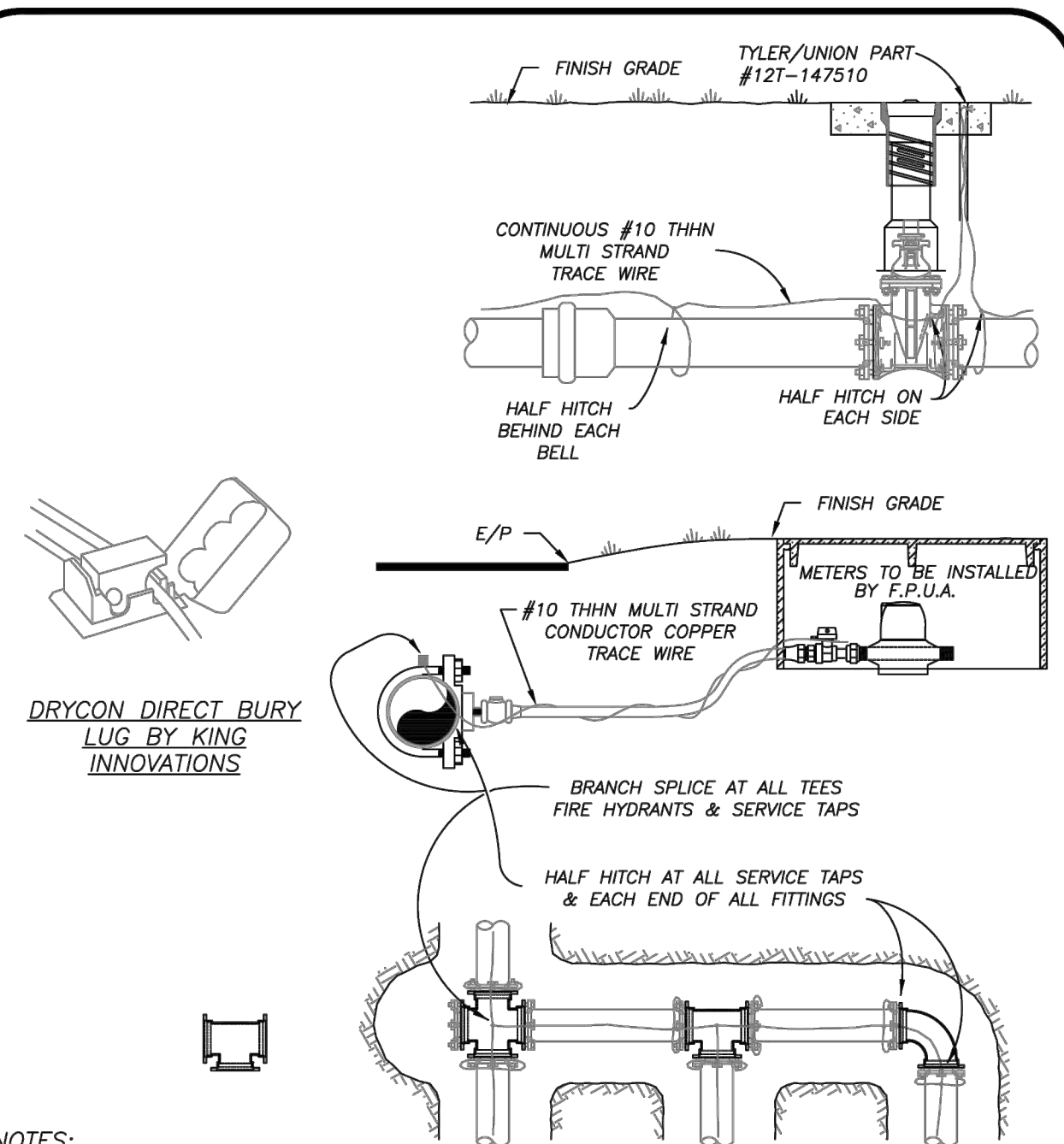
BLAINE BERGSTRESSER, P.E.  
FLORIDA LICENSE No. 84598  
2/24/2025



PROJECT No.: 24-1001  
DRAWN BY: SCB  
CHECKED BY: BRB  
DATE: 04/02/2024  
CAD I.D.: 24-1001 FPUA DETAILS

SHEET TITLE:  
**FPUA DETAILS-01**

SHEET NUMBER:  
**C-500**

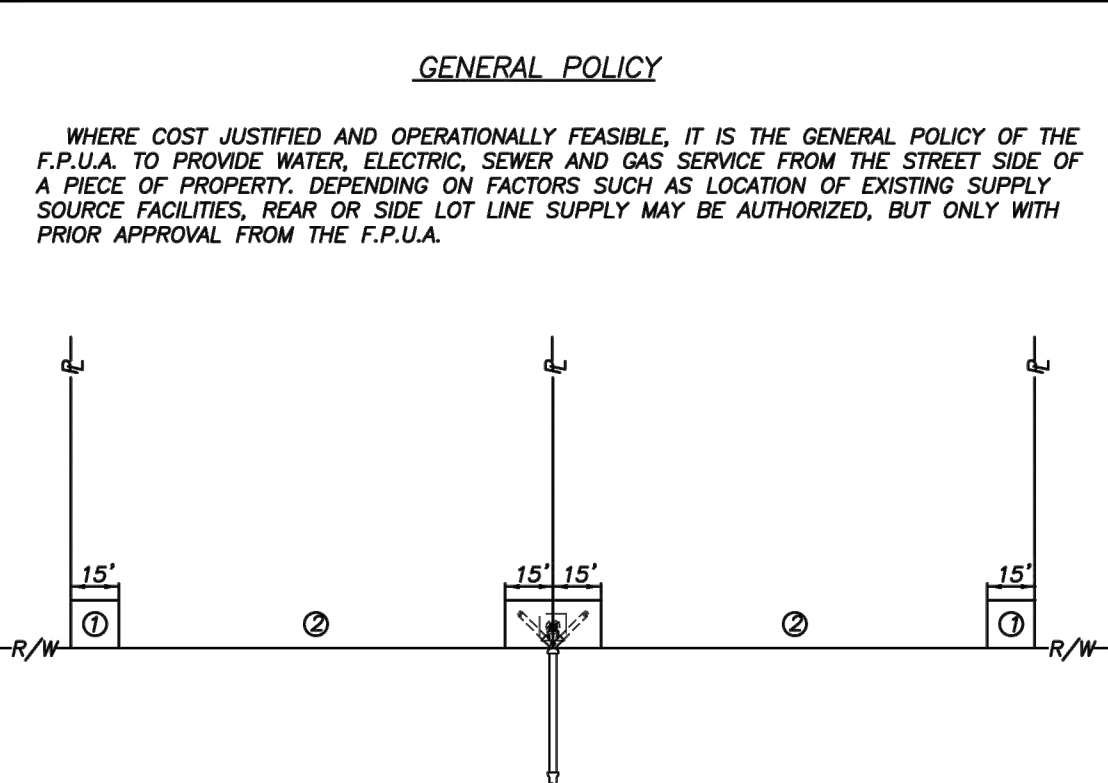


**NOTES:**

- 1) TRACE WIRE IS REQUIRED ON ALL PIPE AS NOTED BY UTILITIES ENGINEER AND SHOWN IN STANDARD DETAILS.
- 2) INCLUDE ALL COST OF MATERIAL & LABOR IN PRICE OF PIPE.
- 3) CONTRACTOR IS RESPONSIBLE FOR CONTINUITY OF ALL TRACE WIRE.

**TRACE WIRE DETAIL** (N.T.S.)

|               |                                 |                                |                                |                              |
|---------------|---------------------------------|--------------------------------|--------------------------------|------------------------------|
| DATE: 02-09   | REVISION:                       | BY: JLC                        | APPD:                          | WATER/WASTEWATER ENGINEERING |
| DESIGNED:     | COMPUTER FILE #                 | SCALE:                         | FT. PIERCE UTILITIES AUTHORITY |                              |
| DRAWN BY: JLC | SCALE: MISC. DETAILS 200602.DWG | FT. PIERCE UTILITIES AUTHORITY |                                |                              |
| DATE: 2010    | DATE: 2010                      | SHEET: 1                       | OF: 1                          |                              |



**GENERAL POLICY**

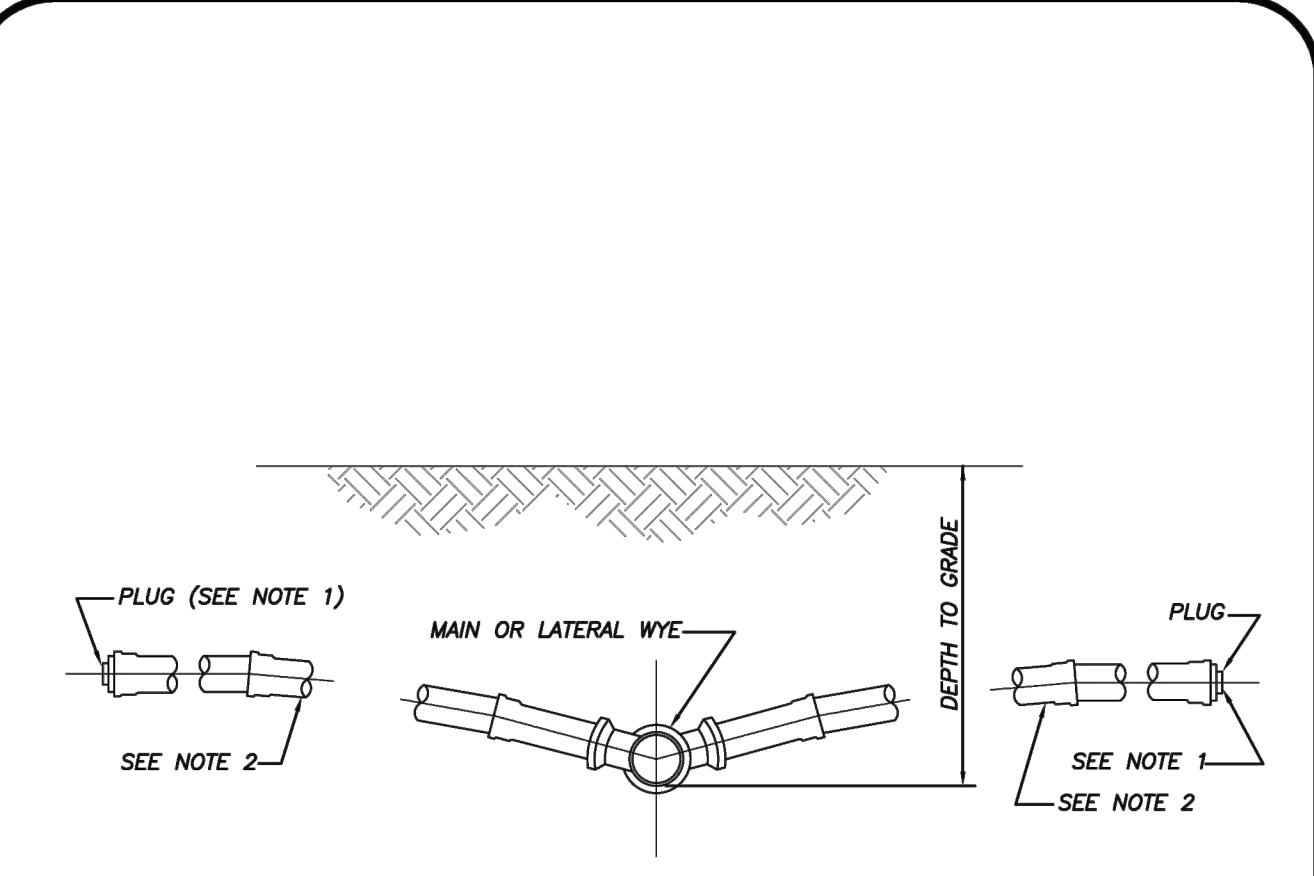
WHERE COST JUSTIFIED AND OPERATIONALLY FEASIBLE, IT IS THE GENERAL POLICY OF THE F.P.U.A. TO PROVIDE WATER, ELECTRIC, SEWER AND GAS SERVICE FROM THE STREET SIDE OF A PIECE OF PROPERTY, DEPENDING ON FACTORS SUCH AS LOCATION OF EXISTING SUPPLY SOURCE FACILITIES, REAR OR SIDE LOT LINE SUPPLY MAY BE AUTHORIZED, BUT ONLY WITH PRIOR APPROVAL FROM THE F.P.U.A.

**NOTES:**

1. THE PREFERRED POINT OF CONNECTION TO THE F.P.U.A. SEWER LATERAL AREA (1) SHALL BE LOCATED IN THE CORNER OF THE PROPERTY SELECTED BY THE F.P.U.A. AS THE BEST LOCATION FOR THE LATERAL. EVERY EFFORT WILL BE MADE TO SELECT THE CORNER WHERE TWO LATERALS CAN BE CONNECTED IN A "Y" CONFIGURATION AS SHOWN.
2. IF PHYSICAL BARRIERS OR OTHER OBSTACLES PREVENT THE CONNECTION OF THE BUILDING SERVICE LINE TO THE F.P.U.A. SEWER LATERAL WITHIN AREA (1), THE F.P.U.A. ENGINEERING DEPARTMENT MAY AUTHORIZE THE CONNECTION ALONG THE PORTION OF THE R/W LINE MARKED AREA (2).
3. HORIZONTAL SEPARATION OF WATER AND WASTEWATER SERVICES SHOULD BE A MINIMUM OF SIX FEET AND PREFERABLY 10 FEET.
4. THE WASTEWATER LATERAL SHALL BE LOCATED WITHIN RIGHT-OF-WAY AND TERMINATE AT THE PROPERTY LINE.
5. THE F.P.U.A. SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REPAIR OF THE WASTEWATER LATERAL WITHIN THE EASEMENT OR RIGHT-OF-WAY, UP TO THE POINT OF CONNECTION.

**WASTEWATER SERVICE PLACEMENT** (N.T.S.)

|               |                                 |                                |                                |                              |
|---------------|---------------------------------|--------------------------------|--------------------------------|------------------------------|
| DATE: 02-09   | REVISION:                       | BY: JLC                        | APPD:                          | WATER/WASTEWATER ENGINEERING |
| DESIGNED:     | COMPUTER FILE #                 | SCALE:                         | FT. PIERCE UTILITIES AUTHORITY |                              |
| DRAWN BY: JLC | SCALE: MISC. DETAILS 200602.DWG | FT. PIERCE UTILITIES AUTHORITY |                                |                              |
| DATE: 2010    | DATE: 2010                      | SHEET: 1                       | OF: 1                          |                              |

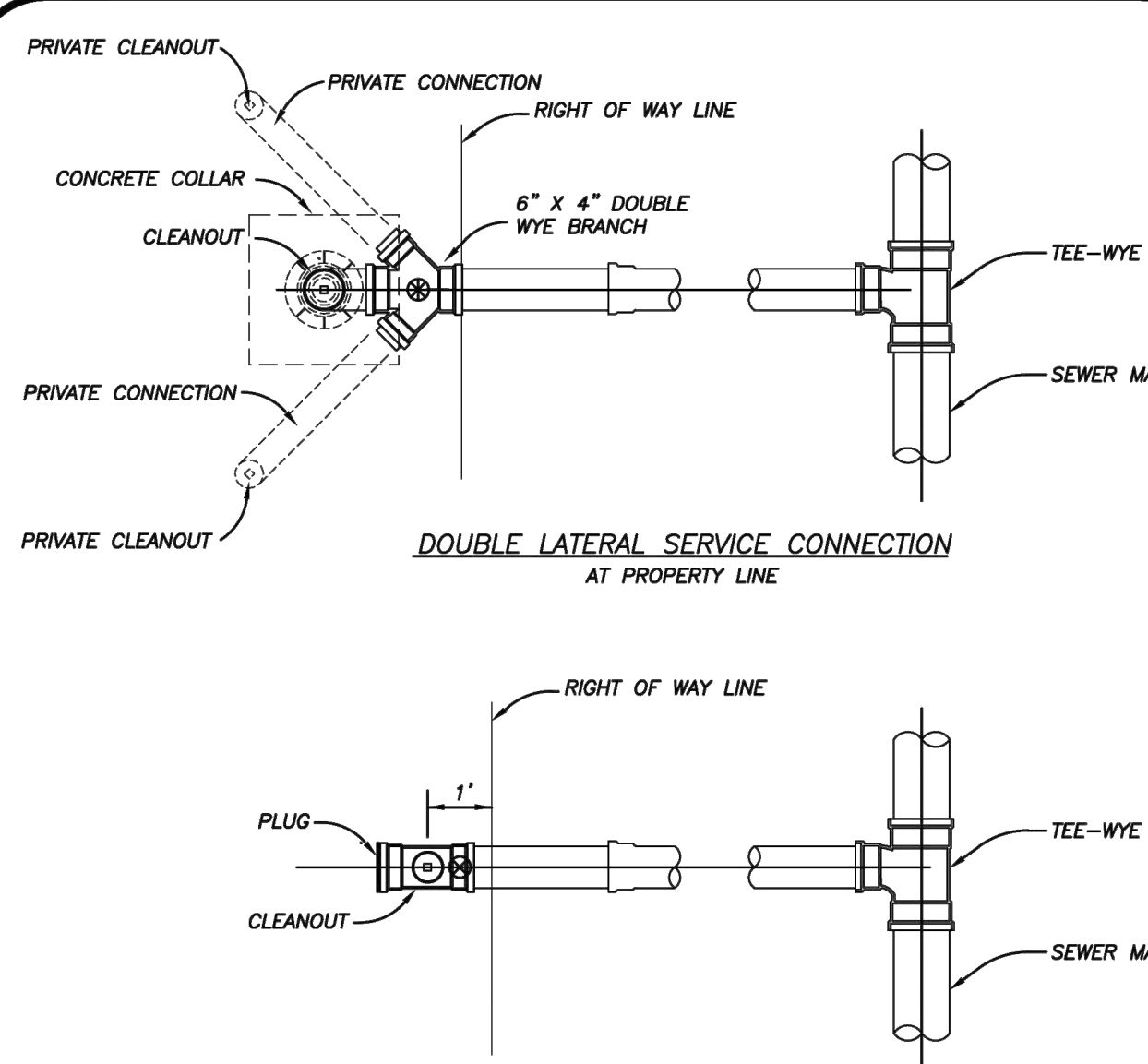


**NOTES:**

- 1) BALL TYPE WASTEWATER LOCATOR BY 3M CORP. OR APPROVED EQUAL.
- 2) MINIMUM SLOPE OF 1/8" PER FOOT, USE GREATER SLOPE WHERE POSSIBLE.
- 3) SERVICE LATERAL SHALL TERMINATE WITH A CLEANOUT.
- 4) INSTALL CLEANOUT AT THE PROPERTY LINE. REFER TO DETAIL S-1 FOR SPECIFIC PROPERTY LAYOUT.

**SERVICE CONNECTION** (N.T.S.)

|               |                                 |                                |                                |                              |
|---------------|---------------------------------|--------------------------------|--------------------------------|------------------------------|
| DATE: 02-09   | REVISION:                       | BY: JLC                        | APPD:                          | WATER/WASTEWATER ENGINEERING |
| DESIGNED:     | COMPUTER FILE #                 | SCALE:                         | FT. PIERCE UTILITIES AUTHORITY |                              |
| DRAWN BY: JLC | SCALE: MISC. DETAILS 200602.DWG | FT. PIERCE UTILITIES AUTHORITY |                                |                              |
| DATE: 2010    | DATE: 2010                      | SHEET: 1                       | OF: 1                          |                              |



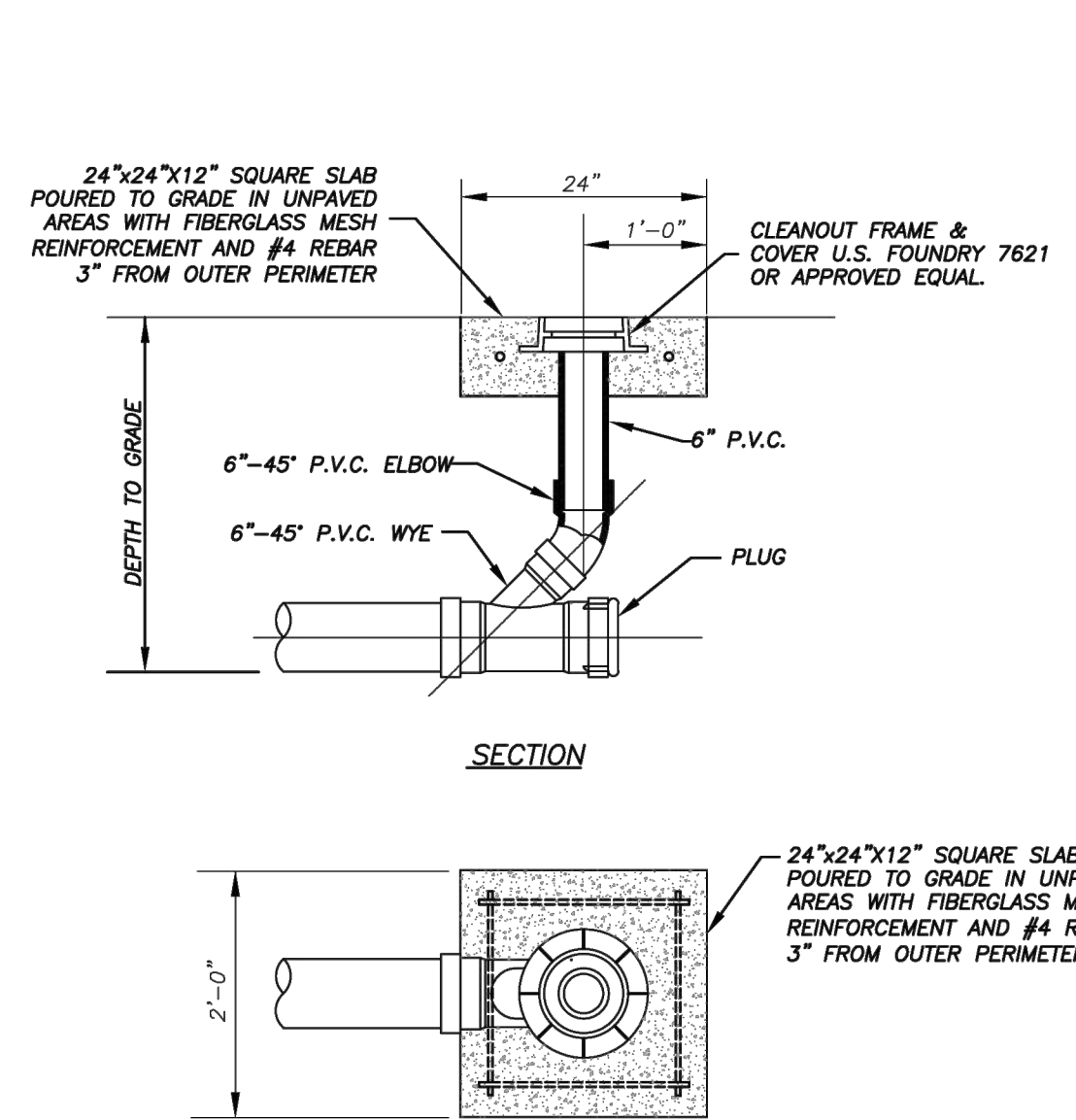
**DOUBLE LATERAL SERVICE CONNECTION** AT PROPERTY LINE

**SINGLE SERVICE LATERAL CONNECTION**

⊙ = BALL TYPE WASTEWATER LOCATOR INSTALLED ABOVE THIS POINT BALL BY 3M CORP. OR APPROVED EQUAL SERVICE LATERAL SHALL TERMINATE WITH A CLEANOUT

**SERVICE CONNECTION** (N.T.S.)

|               |                                 |                                |                                |                              |
|---------------|---------------------------------|--------------------------------|--------------------------------|------------------------------|
| DATE: 02-09   | REVISION:                       | BY: JLC                        | APPD:                          | WATER/WASTEWATER ENGINEERING |
| DESIGNED:     | COMPUTER FILE #                 | SCALE:                         | FT. PIERCE UTILITIES AUTHORITY |                              |
| DRAWN BY: JLC | SCALE: MISC. DETAILS 200602.DWG | FT. PIERCE UTILITIES AUTHORITY |                                |                              |
| DATE: 2010    | DATE: 2010                      | SHEET: 1                       | OF: 1                          |                              |



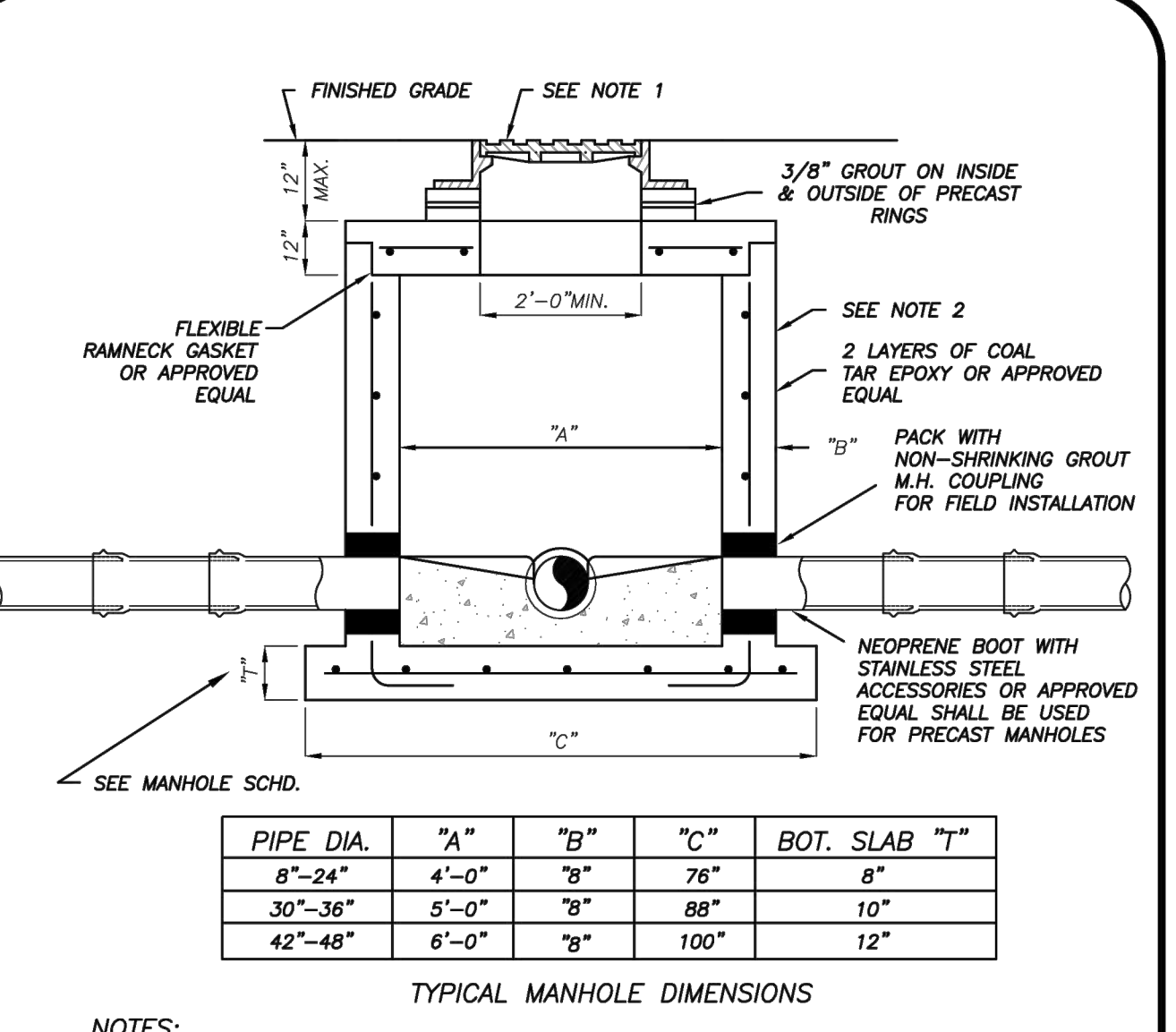
**RESIDENTIAL CLEANOUT DETAIL** (N.T.S.)

**NOTES:**

- 1) SEE DETAIL S-3 FOR DOUBLE SERVICE CONNECTION.

**TERMINAL CLEANOUT DETAIL** (N.T.S.)

|               |                                 |                                |                                |                              |
|---------------|---------------------------------|--------------------------------|--------------------------------|------------------------------|
| DATE: 02-09   | REVISION:                       | BY: JLC                        | APPD:                          | WATER/WASTEWATER ENGINEERING |
| DESIGNED:     | COMPUTER FILE #                 | SCALE:                         | FT. PIERCE UTILITIES AUTHORITY |                              |
| DRAWN BY: JLC | SCALE: MISC. DETAILS 200602.DWG | FT. PIERCE UTILITIES AUTHORITY |                                |                              |
| DATE: 2010    | DATE: 2010                      | SHEET: 1                       | OF: 3                          |                              |



**SHALLOW MANHOLE** (N.T.S.)

**NOTES:**

- 1) MANHOLE FRAME & COVER WITH THE WORDS "SANITARY SEWER" CAST IN THE COVER. U.S. FOUNDRY 170 OR APPROVED EQUAL.
- 2) ALL CONCRETE MANHOLES TO BE 4000 P.S.I. TO MEET OR EXCEED ASTM C478 ALL CEMENT TO BE TYPE II ACID RESISTANT. REINFORCING AREA OF 0.02 SQ. IN/FT FOR WALL SECTION MIN. TO MEET OR EXCEED ASTM A 185.
- 3) A MAXIMUM OF 2 LAYERS OF PRECAST CONCRETE RINGS, IF REQUIRED.
- 4) RAIN GUARDS SHALL BE INSTALLED IN MANHOLES THAT HAVE GRAVITY MAINS 12" OR LESS.

**PRECAST MANHOLE DEPTH OF LESS THAN 5'-0"** (N.T.S.)

|               |                                 |                                |                                |                              |
|---------------|---------------------------------|--------------------------------|--------------------------------|------------------------------|
| DATE: 02-09   | REVISION:                       | BY: JLC                        | APPD:                          | WATER/WASTEWATER ENGINEERING |
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| DRAWN BY: JLC | SCALE: MISC. DETAILS 200602.DWG | FT. PIERCE UTILITIES AUTHORITY |                                |                              |
| DATE: 2010    | DATE: 2010                      | SHEET: 1                       | OF: 1                          |                              |



**KMA**  
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3001 INDUSTRIAL AVE. 2  
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(772) 569-5505  
F.P.U.A. C.O.A. # 33705

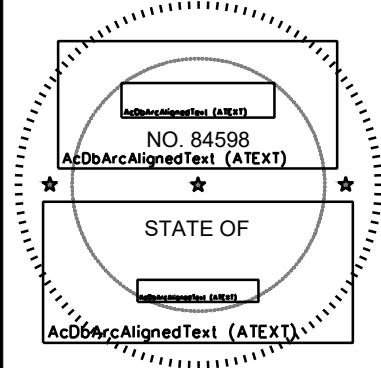
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**NOT FOR CONSTRUCTION**

PROJECT: **SUNRISE LAKES**  
CITY OF FORT PIERCE, FLORIDA

CLIENT: **INTEGRITY 1ST CONSTRUCTION GROUP**



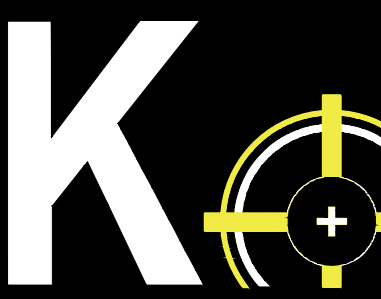
BLAINE BERGSTRESSER, P.E.  
FLORIDA LICENSE NO. 84598  
2/24/2025



PROJECT NO.: 24-1001  
DRAWN BY: SCB  
CHECKED BY: BRB  
DATE: 04/02/2024  
CAD I.D.: 24-1001 FPUA DETAILS

SHEET TITLE: **FPUA DETAILS-02**  
SHEET NUMBER: **C-501**





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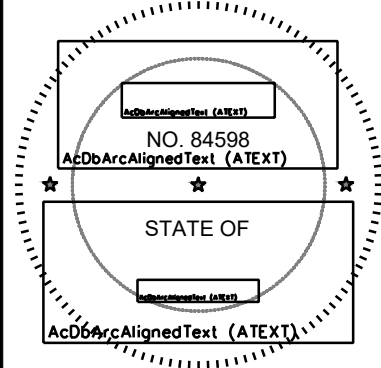
3001 INDUSTRIAL AVE. 2  
FORT PIERCE, FL 34946  
(772) 969-5505  
FPUA C.O.A.# 33705

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**NOT FOR CONSTRUCTION**

PROJECT: **SUNRISE LAKES**  
CITY OF FORT PIERCE, FLORIDA

CLIENT: **INTEGRITY 1ST CONSTRUCTION GROUP**



BLAINE BERGSTRESSER, P.E.  
FLORIDA LICENSE NO. 84598  
2/24/2025

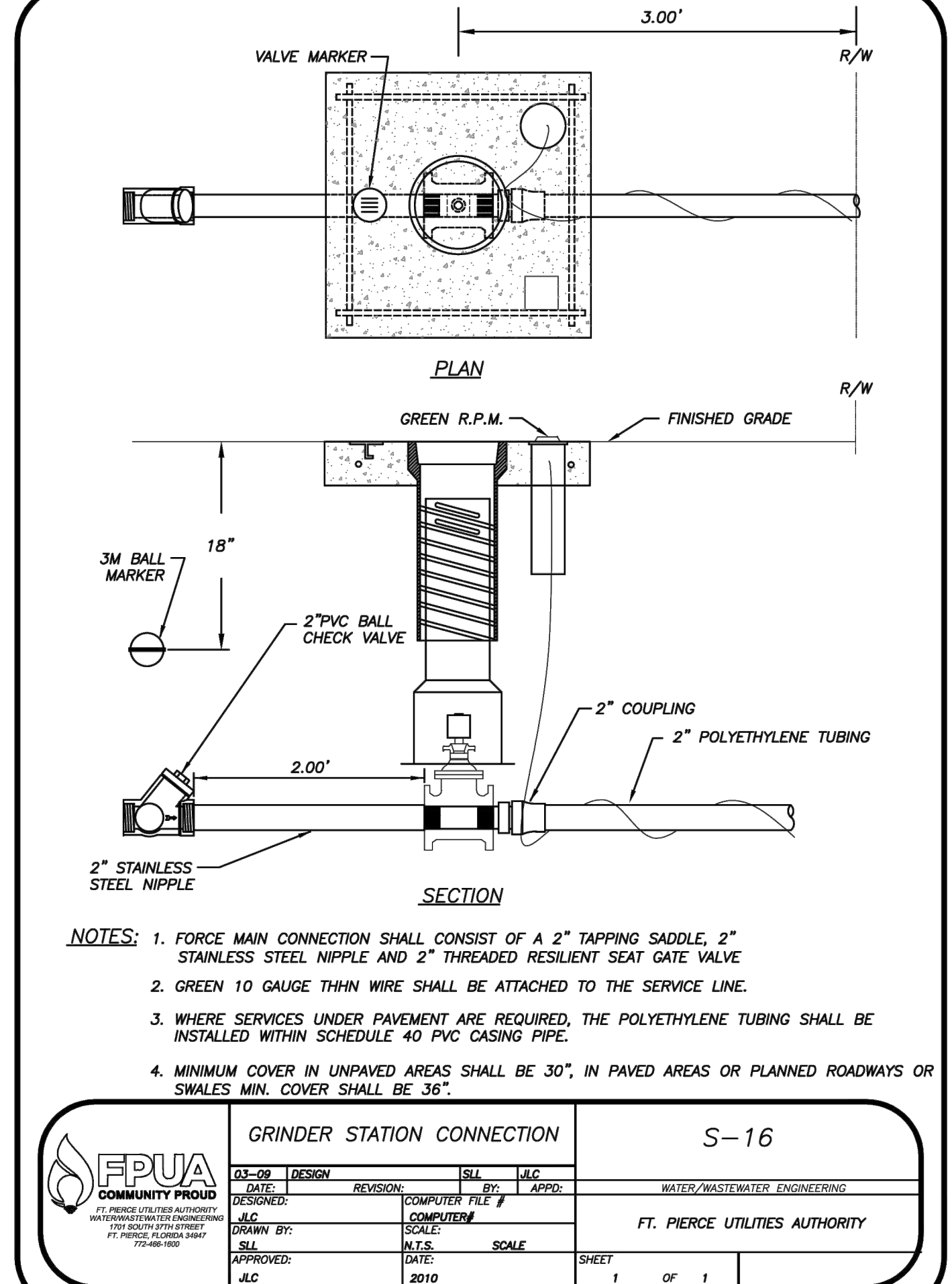
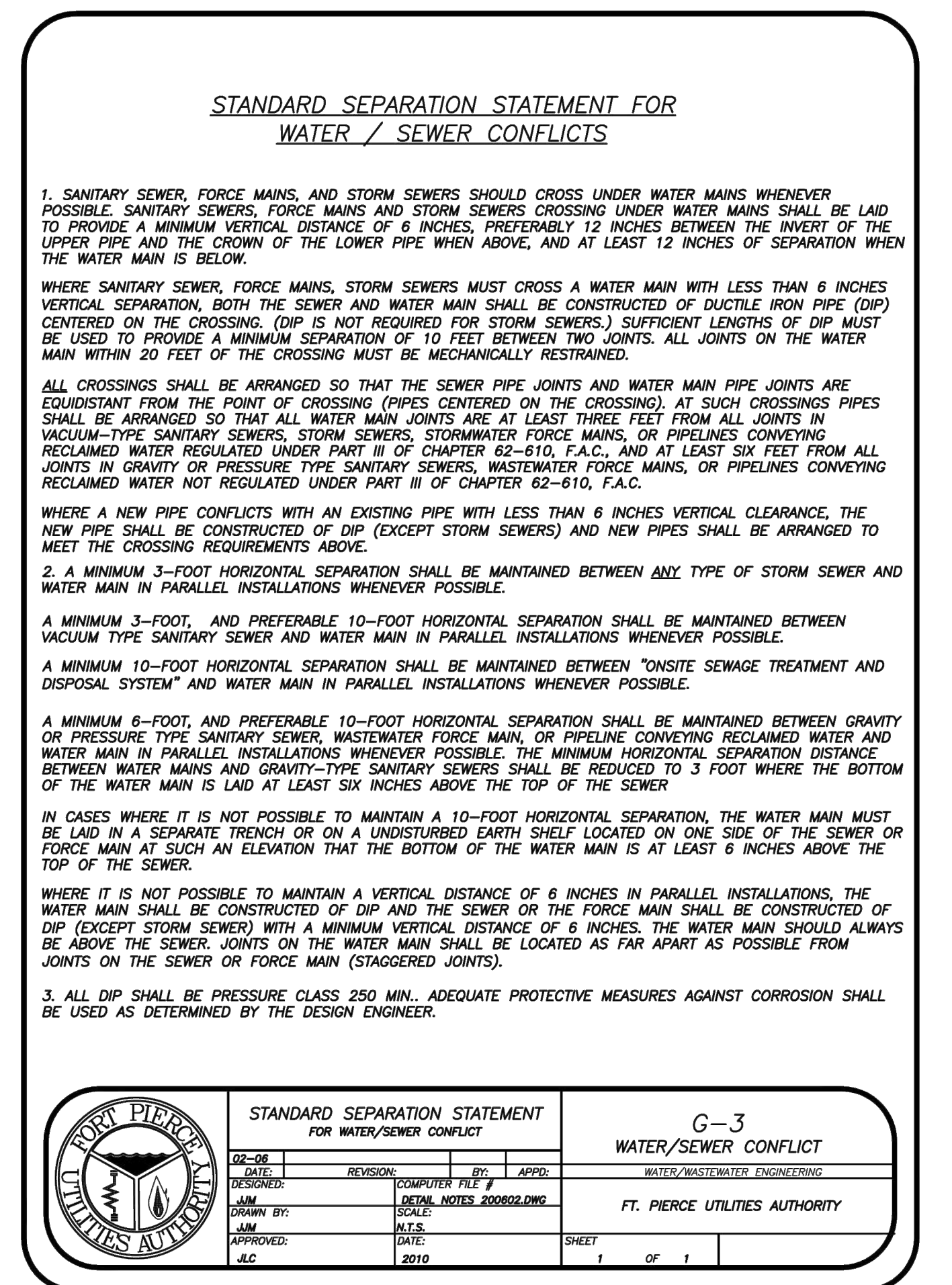
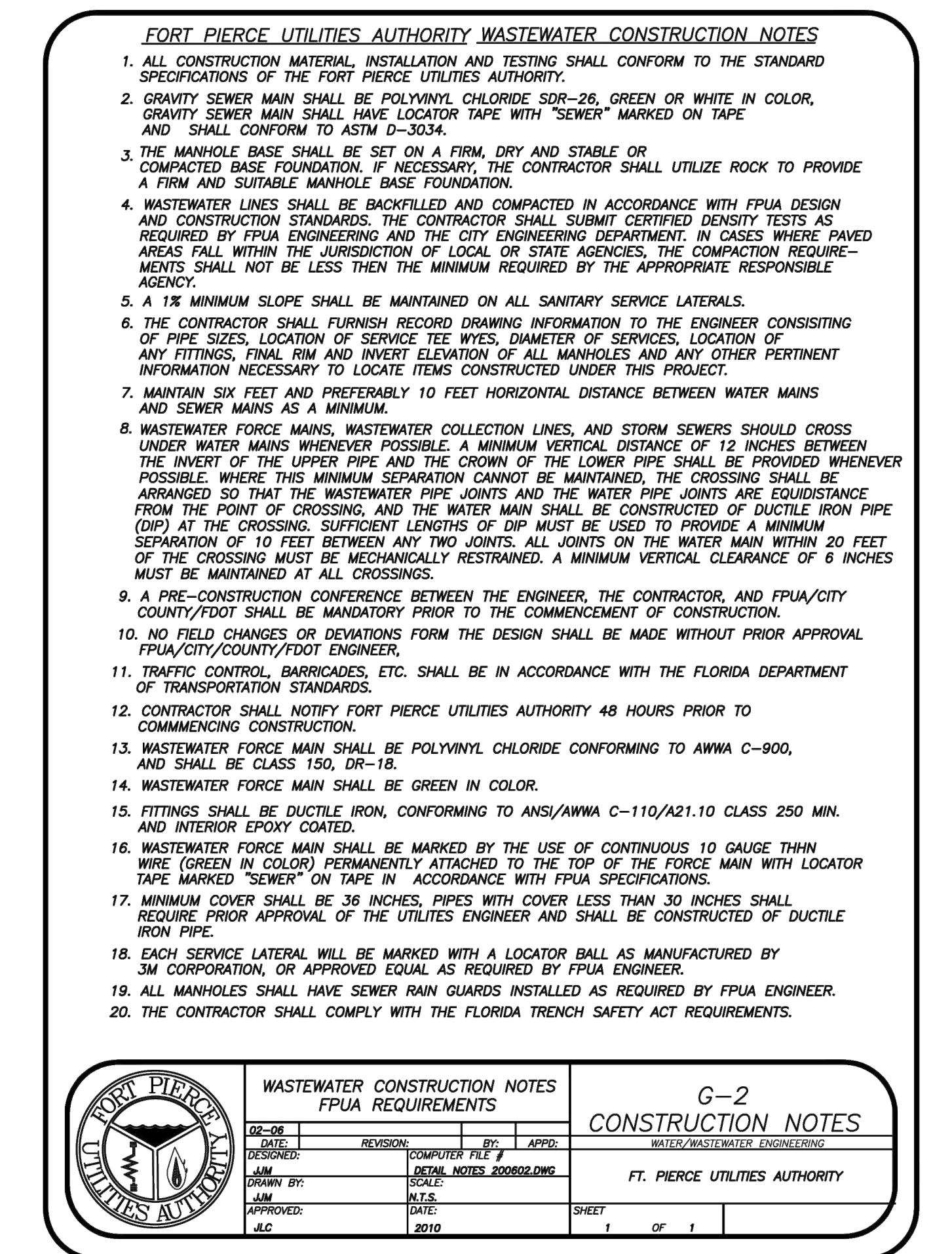
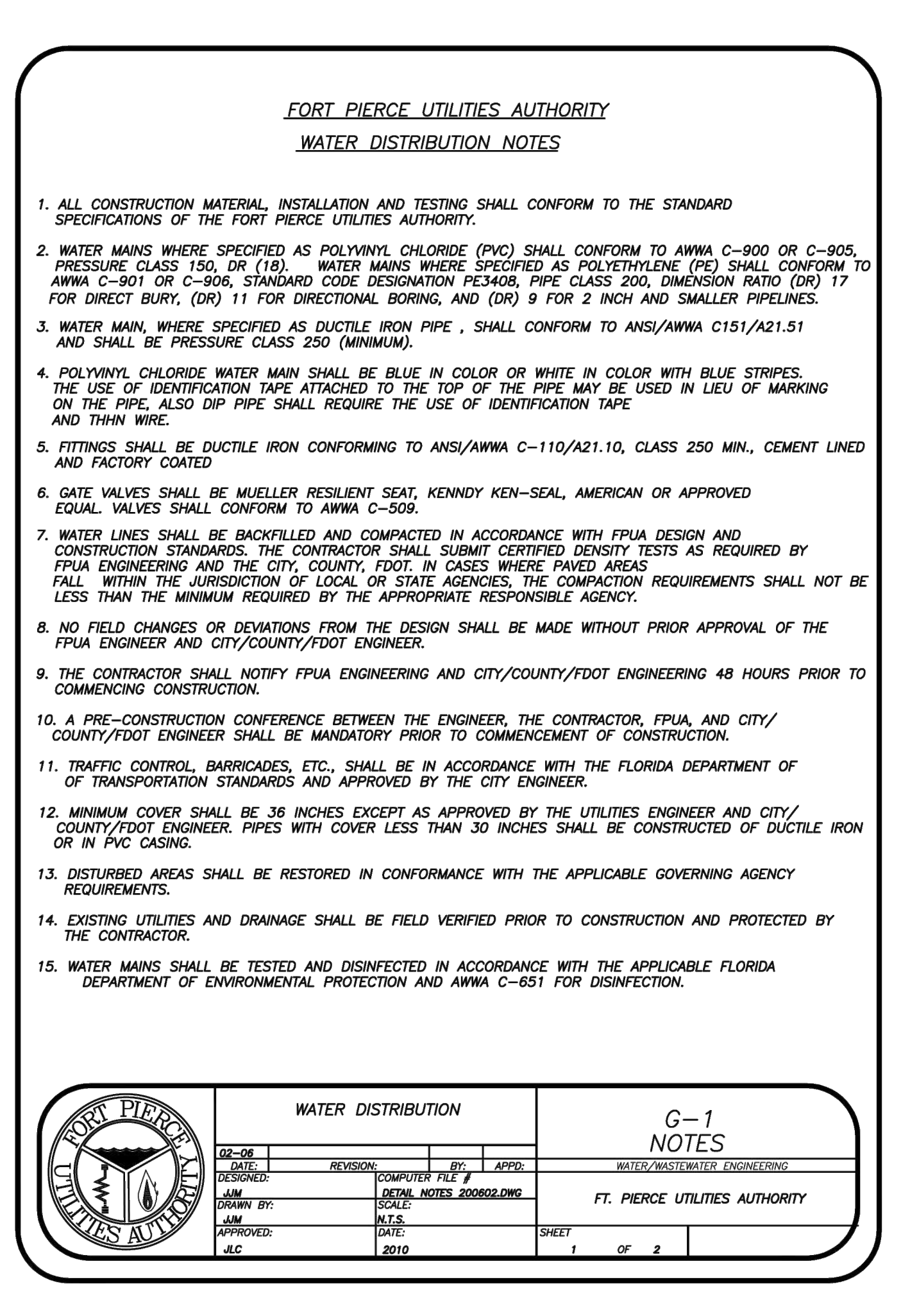
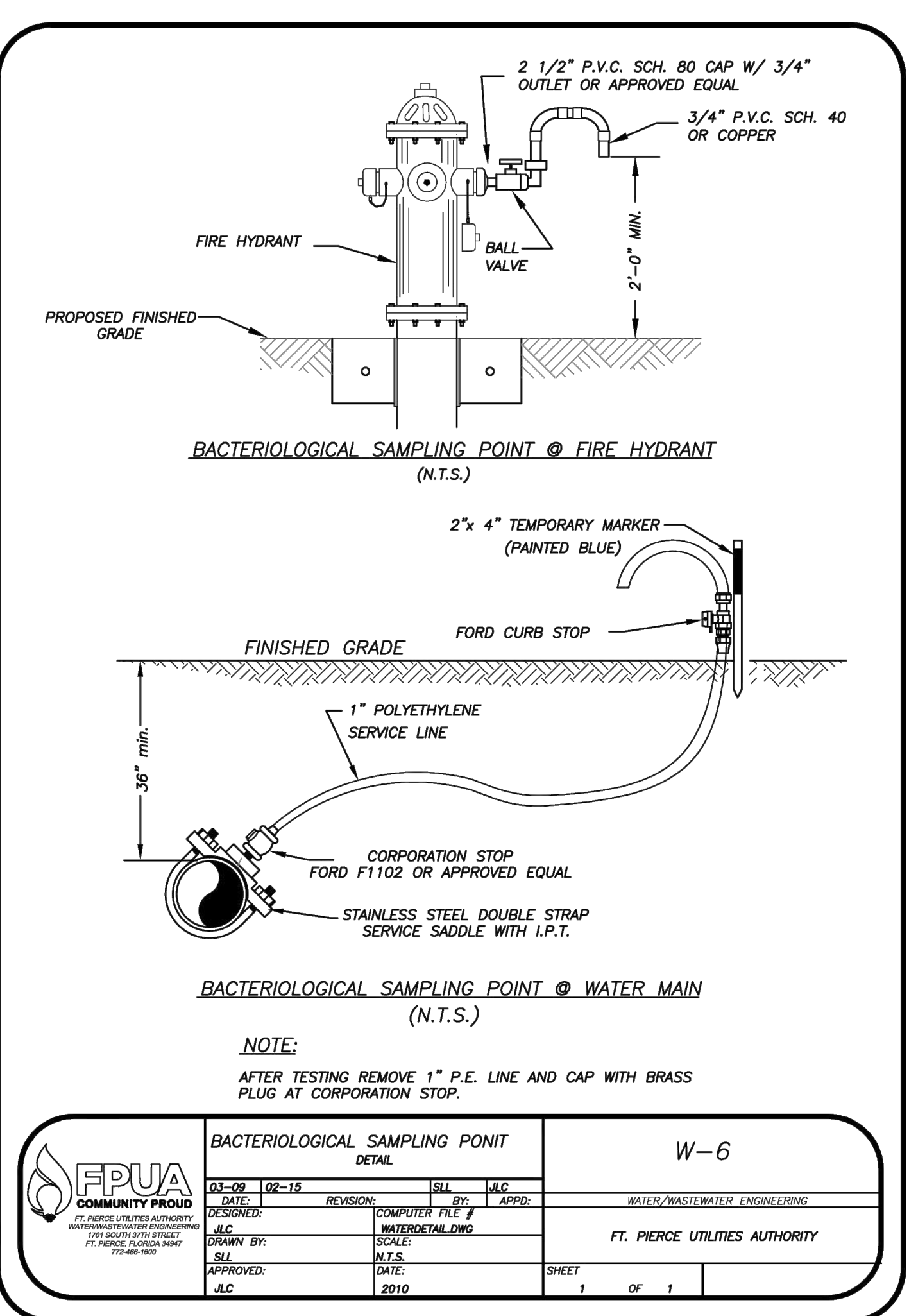
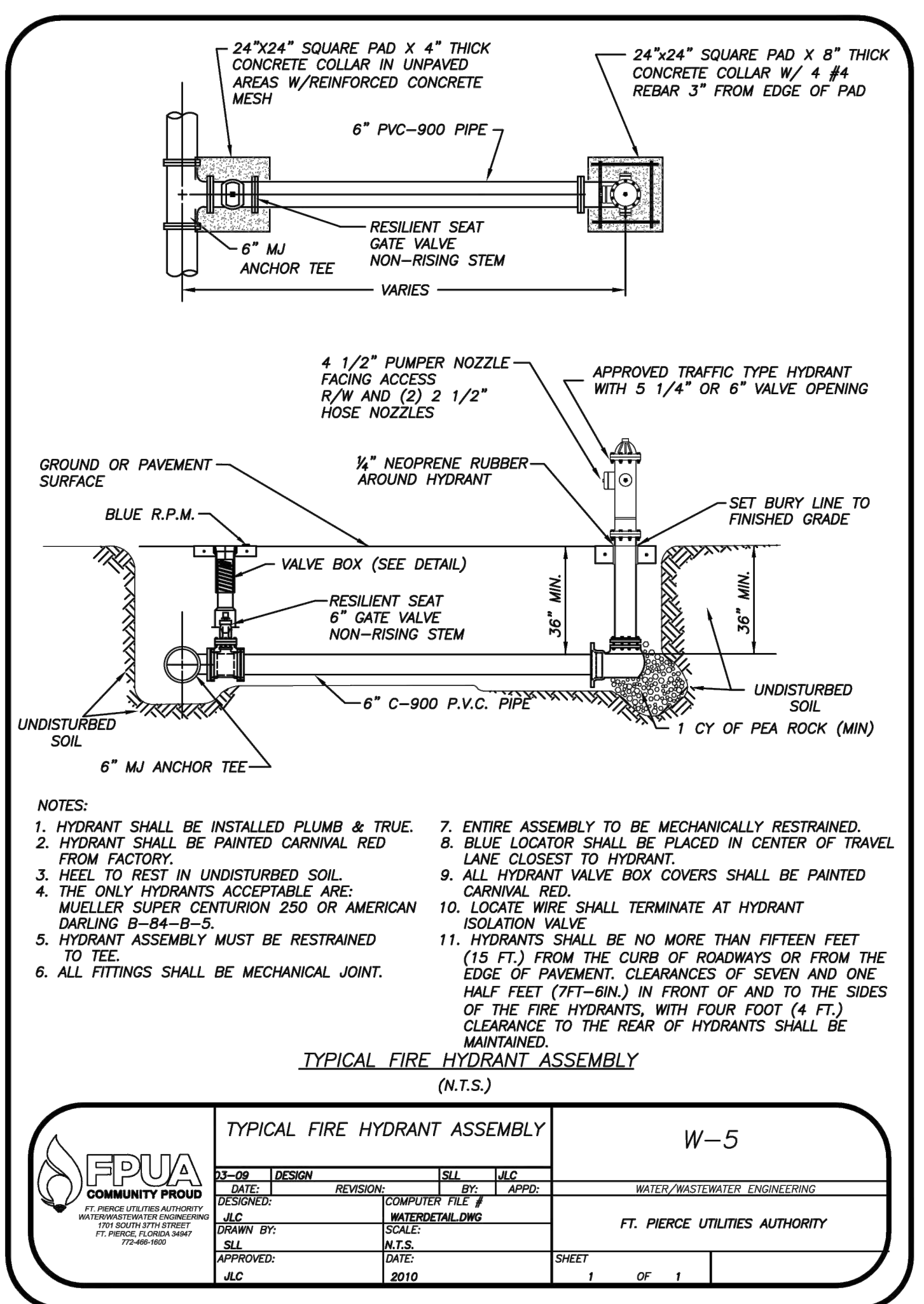


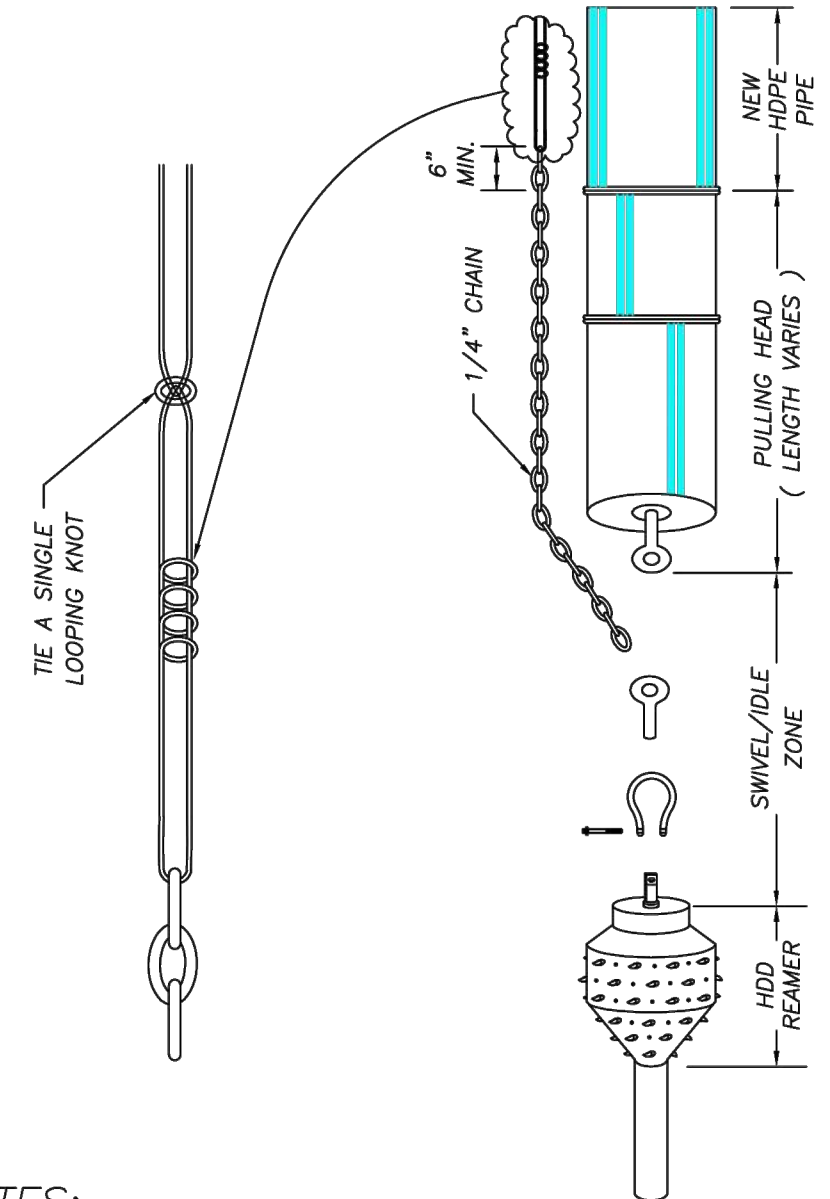
KNOW WHATS BELOW  
ALWAYS CALL 811  
BEFORE YOU DIG  
It's Not 8's the 8's the 8's.

PROJECT No.: 24-1001  
DRAWN BY: SCB  
CHECKED BY: BRB  
DATE: 04/02/2024  
CAD I.D.: 24-1001 FPUA DETAILS

SHEET TITLE: **FPUA DETAILS-04**

SHEET NUMBER: **C-503**

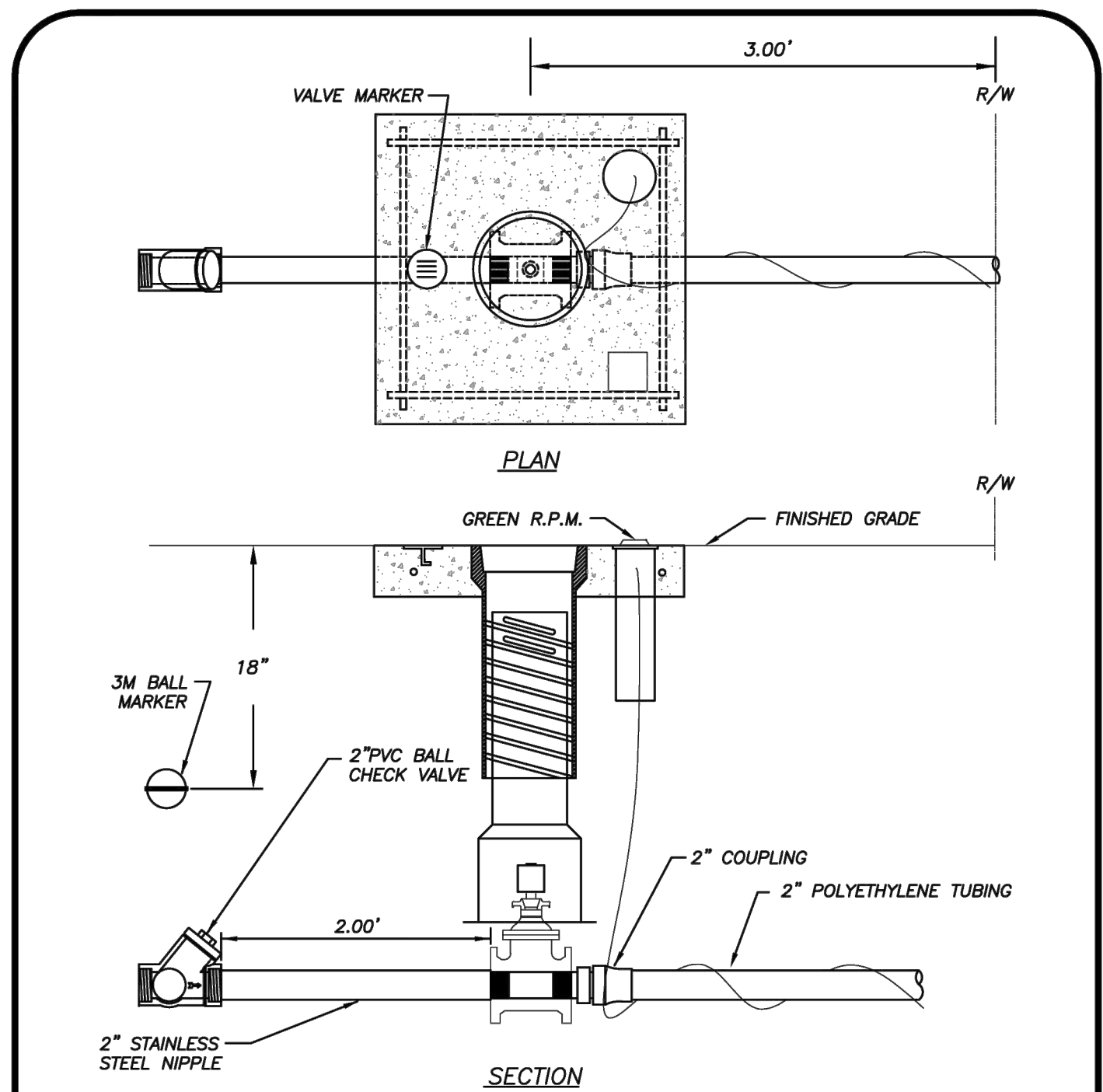




**NOTES:**

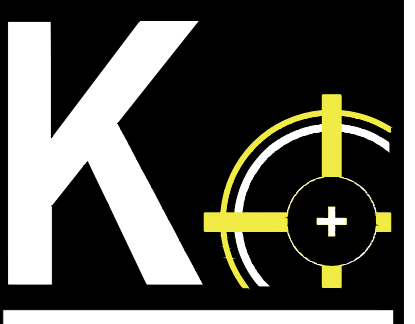
1. WHERE DIRECTIONAL DRILLING LENGTHS EXCEED 750 LINEAR FEET AND/OR HDPE PIPE DIAMETER EXCEED 12 INCHES, A SECOND LENGTH OF TRACE WIRE SHALL BE INSTALLED.
2. TRACE WIRE SHALL CONFORM TO THE FOLLOWING SPECIFICATION:  
 MANUFACTURER - COPPERHEAD INDUSTRIES, LLC  
 PART NUMBER - 1245B-EHS-500 / 1245B-EHS-1000 / 1245B-EHS-2500  
 PART NUMBER DESCRIPTION - 12 (AWG), 45 (JACKET MIL), B (JACKET COLOR: B=BLUE, G=GREEN, ETC.) - EHS (EXTRA HIGH STRENGTH-HARD DRAWN / 1150# BREAKING LOAD STRENGTH) - 500 (WIRE LENGTH IN FEET)

|  |                                  |                 |                                |
|--|----------------------------------|-----------------|--------------------------------|
|  | DIRECTIONAL BORE WIRE ATTACHMENT |                 | M-16                           |
|  | DATE: 03-09                      | CONCRETE: SKAB  | SCALE: 1/4" = 1'-0"            |
|  | DESIGNED BY: JLC                 | COMPUTER FILE # | SCALE: MISC DETAILS 200602.DWG |
|  | APPROVED BY: JLC                 | DATE: 2015      | SHEET: 1 OF 1                  |



- NOTES:**
1. FORCE MAIN CONNECTION SHALL CONSIST OF A 2" TAPPING SADDLE, 2" STAINLESS STEEL NIPPLE AND 2" THREADED RESILIENT SEAT GATE VALVE
  2. GREEN 10 GAUGE THIN WIRE SHALL BE ATTACHED TO THE SERVICE LINE.
  3. WHERE SERVICES UNDER PAVEMENT ARE REQUIRED, THE POLYETHYLENE TUBING SHALL BE INSTALLED WITHIN SCHEDULE 40 PVC CASING PIPE.
  4. MINIMUM COVER IN UNPAVED AREAS SHALL BE 30", IN PAVED AREAS OR PLANNED ROADWAYS OR SWALES MIN. COVER SHALL BE 36".

|  |                            |                 |                                |
|--|----------------------------|-----------------|--------------------------------|
|  | GRINDER STATION CONNECTION |                 | S-16                           |
|  | DATE: 03-09                | DESIGN: JLC     | SCALE: 1/4" = 1'-0"            |
|  | DESIGNED BY: JLC           | COMPUTER FILE # | SCALE: MISC DETAILS 200602.DWG |
|  | APPROVED BY: JLC           | DATE: 2010      | SHEET: 1 OF 1                  |



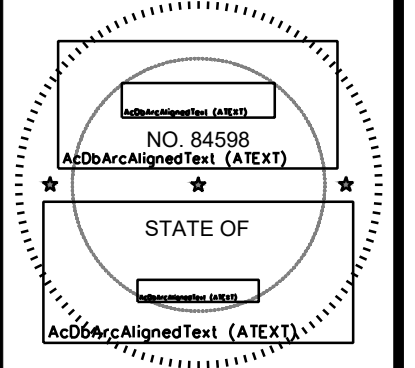
**KMA**  
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 3001 INDUSTRIAL AVE 2  
 FORT PIERCE, FL 34946  
 (772) 969-5505  
 FPUA C.O.A. # 33705

| REVISIONS: |          |
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| BY:        | COMMENT: |
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**NOT FOR CONSTRUCTION**

PROJECT: **SUNRISE LAKES**  
 CITY OF FORT PIERCE, FLORIDA

CLIENT: **INTEGRITY 1ST CONSTRUCTION GROUP**



BLAINE BERGSTRESSER, P.E.  
 FLORIDA LICENSE No. 84598  
 2/24/2025



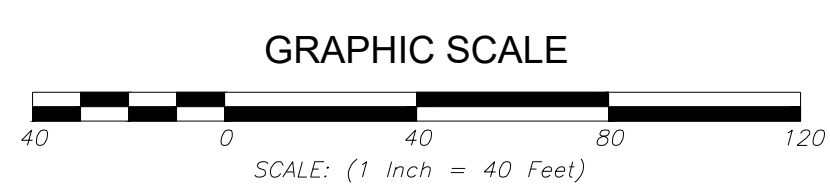
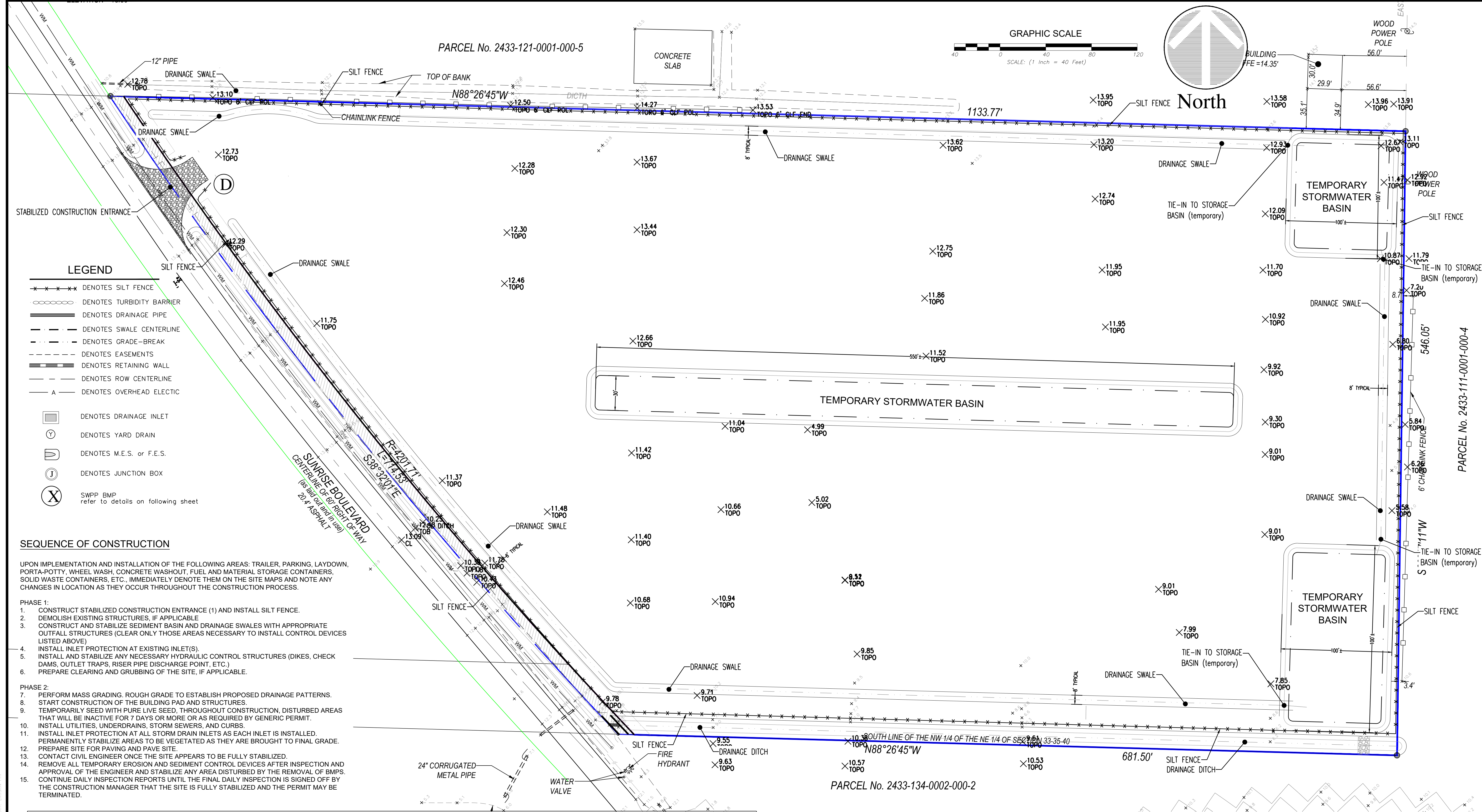
PROJECT No.: 24-1001  
 DRAWN BY: SCB  
 CHECKED BY: BRB  
 DATE: 04/02/2024  
 CAD I.D.: 24-1001 FPUA DETAILS

SHEET TITLE:  
**FPUA DETAILS-05**

SHEET NUMBER:  
**C-504**







- LEGEND**
- x x x x x --- DENOTES SILT FENCE
  - o o o o o --- DENOTES TURBIDITY BARRIER
  - --- DENOTES DRAINAGE PIPE
  - --- DENOTES SWALE CENTERLINE
  - --- DENOTES GRADE-BREAK
  - --- DENOTES EASEMENTS
  - --- DENOTES RETAINING WALL
  - --- DENOTES ROW CENTERLINE
  - A --- DENOTES OVERHEAD ELECTRIC
  - DENOTES DRAINAGE INLET
  - DENOTES YARD DRAIN
  - DENOTES M.E.S. or F.E.S.
  - DENOTES JUNCTION BOX
  - X SWPP BMP refer to details on following sheet

**SEQUENCE OF CONSTRUCTION**

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAYDOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.

- PHASE 1:**
1. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE (1) AND INSTALL SILT FENCE.
  2. DEMOLISH EXISTING STRUCTURES, IF APPLICABLE.
  3. CONSTRUCT AND STABILIZE SEDIMENT BASIN AND DRAINAGE SWALES WITH APPROPRIATE OUTFALL STRUCTURES (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL CONTROL DEVICES LISTED ABOVE).
  4. INSTALL INLET PROTECTION AT EXISTING INLET(S).
  5. INSTALL AND STABILIZE ANY NECESSARY HYDRAULIC CONTROL STRUCTURES (DIKES, CHECK DAMS, OUTLET TRAPS, RISER PIPE DISCHARGE POINT, ETC.)
  6. PREPARE CLEARING AND GRUBBING OF THE SITE, IF APPLICABLE.
- PHASE 2:**
7. PERFORM MASS GRADING, ROUGH GRADE TO ESTABLISH PROPOSED DRAINAGE PATTERNS.
  8. START CONSTRUCTION OF THE BUILDING PAD AND STRUCTURES.
  9. TEMPORARILY SEED WITH PURE LIVE SEED, THROUGHOUT CONSTRUCTION, DISTURBED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE OR AS REQUIRED BY GENERIC PERMIT.
  10. INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS, AND CURBS.
  11. INSTALL INLET PROTECTION AT ALL STORM DRAIN INLETS AS EACH INLET IS INSTALLED.
  12. PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
  13. PREPARE SITE FOR PAVING AND PAVE SITE.
  14. CONTACT CIVIL ENGINEER ONCE THE SITE APPEARS TO BE FULLY STABILIZED.
  15. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER INSPECTION AND APPROVAL OF THE ENGINEER AND STABILIZE ANY AREA DISTURBED BY THE REMOVAL OF BMP'S. CONTINUE DAILY INSPECTION REPORTS UNTIL THE FINAL DAILY INSPECTION IS SIGNED OFF BY THE CONSTRUCTION MANAGER THAT THE SITE IS FULLY STABILIZED AND THE PERMIT MAY BE TERMINATED.

**SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE**

NOTE: GENERAL CONTRACTOR TO COMPLETE TABLE WITH THEIR SPECIFIC PROJECT SCHEDULE

| CONSTRUCTION SEQUENCE                | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC |
|--------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| TEMPORARY CONSTRUCTION EXITS         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| TEMPORARY CONTROL MEASURES           |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| SEDIMENT CONTROL BASINS              |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| STRIP & STOCKPILE TOPSOIL            |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ROUGH GRADE                          |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| STORM FACILITIES                     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| SITE CONSTRUCTION                    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| PERMANENT CONTROL STRUCTURES         |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| FOUNDATION / BUILDING CONSTRUCTION   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| FINISH GRADING                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| LANDSCAPING/SEED/FINAL STABILIZATION |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |

**MAINTENANCE**

ALL MEASURES STATED ON THIS SITE MAP, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.
2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEED AS NEEDED. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
3. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION EXITS AS CONDITIONS DEMAND. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AREA AS CONDITIONS DEMAND.
4. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50%.

HALT ALL ACTIVITIES AND CONTACT THE CONSULTANT TO PERFORM INSPECTION AND CERTIFICATION OF BMP'S. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM WATER PRE-CONSTRUCTION MEETING WITH CONSULTANT AND ALL GROUND-DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.

CONTRACTOR TO BE RESPONSIBLE FOR OBTAINING ALL DEWATERING PERMITS NECESSARY FOR CONSTRUCTION.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTORS BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

SITE PREPARATION SHOULD BE IN ACCORDANCE WITH GEOTECHNICAL INVESTIGATION

**NAVD 1988**  
ALL ELEVATIONS DEPICTED HEREON  
REFERENCE NAVD 1988. THE CONVERSION  
FACTOR TO NGVD 1929 IS +1.496'



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(772) 969-5505  
FLORIDA C.O.A. # 33705

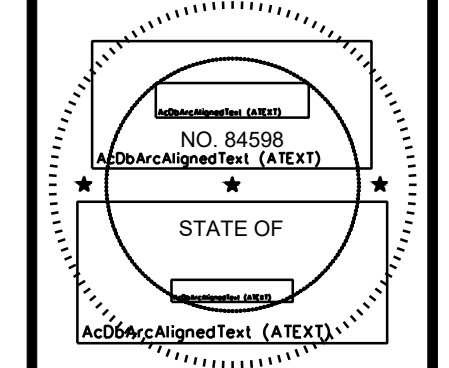
REVISIONS:

| BY: | DATE: | COMMENT: |
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**NOT FOR CONSTRUCTION**

PROJECT: **SUNRISE LAKES**  
CITY OF FORT PIERCE, FLORIDA

CLIENT: **INTEGRITY 1ST CONSTRUCTION GROUP**



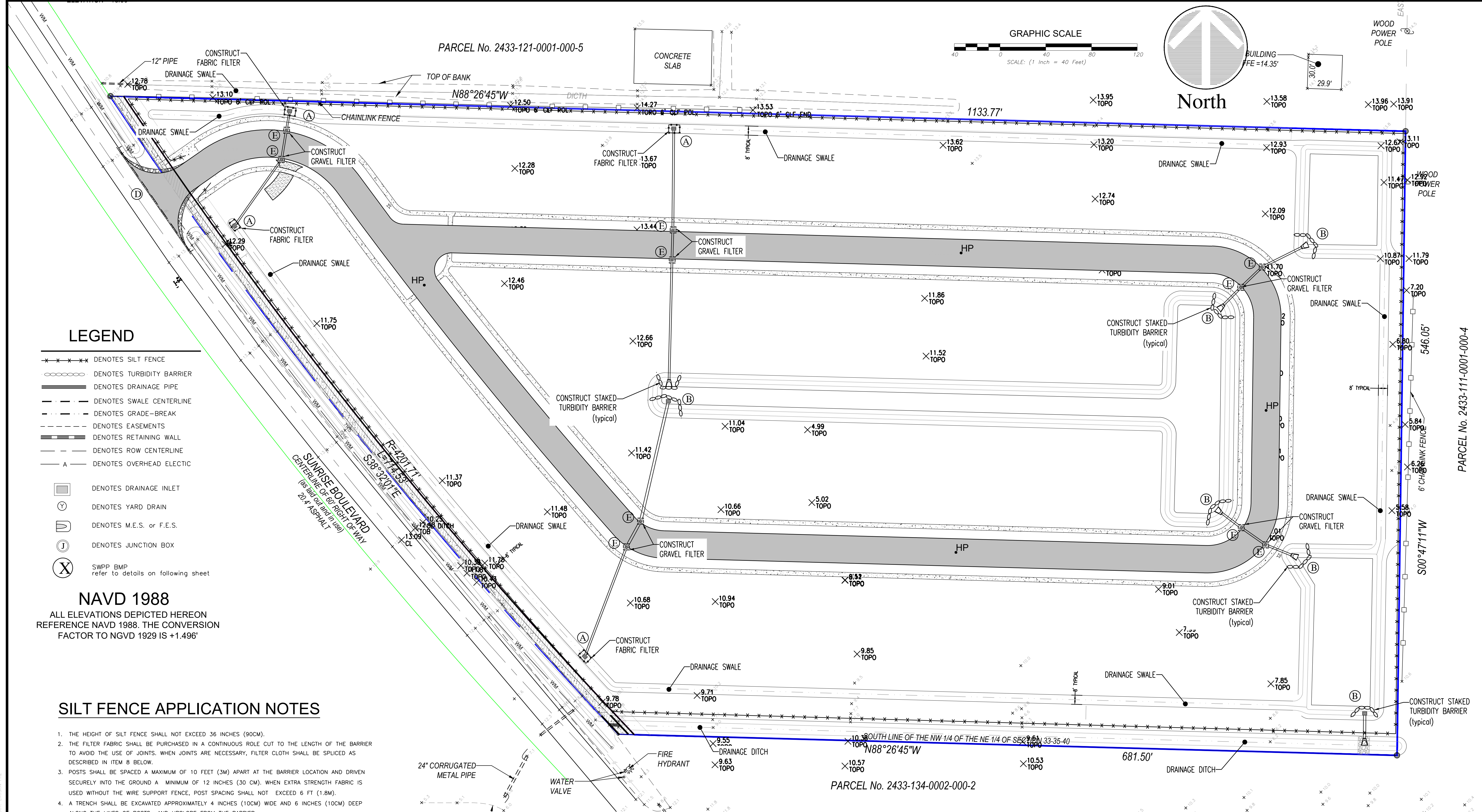
BLAINE BERGSTRESSER, P.E.  
FLORIDA LICENSE NO. 84598  
2/24/2025



PROJECT No.: 24-1001  
DRAWN BY: SCB  
CHECKED BY: BBB  
DATE: 04/02/2024  
CAD I.D.: 24-1001 EX CON

SHEET TITLE:  
**PHASE ONE EROSION CONTROL**

SHEET NUMBER:  
**C-601**



**LEGEND**

- DENOTES SILT FENCE
- DENOTES TURBIDITY BARRIER
- DENOTES DRAINAGE PIPE
- DENOTES SWALE CENTERLINE
- DENOTES GRADE-BREAK
- DENOTES EASEMENTS
- DENOTES RETAINING WALL
- DENOTES ROW CENTERLINE
- A --- DENOTES OVERHEAD ELECTRIC
- DENOTES DRAINAGE INLET
- DENOTES YARD DRAIN
- DENOTES M.E.S. OR F.E.S.
- DENOTES JUNCTION BOX
- ⊗ SWPPP BMP refer to details on following sheet

**NAVD 1988**

ALL ELEVATIONS DEPICTED HEREON REFERENCE NAVD 1988. THE CONVERSION FACTOR TO NGVD 1929 IS +1.496'

**SILT FENCE APPLICATION NOTES**

- THE HEIGHT OF SILT FENCE SHALL NOT EXCEED 36 INCHES (90CM).
- THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPICED AS DESCRIBED IN ITEM 8 BELOW.
- POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET (3M) APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES (30 CM). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FT (1.8M).
- A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES (10CM) WIDE AND 6 INCHES (10CM) DEEP ALONG THE LINES OF POSTS AND UPSLOPE FROM THE BARRIER.
- WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH (25MM) LONG, THE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES (5CM) AND SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.
- THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES (20CM) OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.
- WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACINGS ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM NO.6 APPLYING.
- WHEN ATTACHING TWO SILT FENCES TOGETHER, PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE. ROTATE BOTH THE POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FILTER FABRIC. DRIVE BOTH POSTS INTO THE GROUND AND BURY THE FLAP.
- THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
- THE MOST EFFECTIVE APPLICATION CONSISTS OF A DOUBLE ROW OF SILT FENCES SPACED A MINIMUM OF THREE FEET APART. THE THREE FOOT SEPARATION IS SO THAT IF THE FIRST ROW COLLAPSES IT WILL NOT FALL ON THE SECOND ROW. WIRE OR SYNTHETIC MESH MAY BE USED TO REINFORCE THE FIRST ROW.
- WHEN USED TO CONTROL SEDIMENTS FROM A STEEP SLOPE, SILT FENCES SHOULD BE PLACED AWAY FROM THE TOE OF THE SLOPE FOR INCREASED HOLDING CAPACITY.
- SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

**EROSION CONTROL NOTES**

- SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UP-SLOPE LAND DISTURBANCE TAKES PLACE.
- ALL SEDIMENT CONTROL MEASURES ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON BALANCE OF SITE. PERIMETER SEDIMENT BARRIERS SHALL BE CONSTRUCTED TO PREVENT SEDIMENT OR TRASH FROM FLOWING OR FLOATING ON TO ADJACENT PROPERTIES.
- PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT UNDISTURBED FOR MORE THAN ONE YEAR.
- DURING CONSTRUCTION OF THE PROJECT, SOIL STOCK PILES SHALL BE STABILIZED, COVERED OR CONTAINED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
- A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED.

- AFTER ANY SIGNIFICANT RAINFALL, SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED FOR INTEGRITY. ANY DAMAGED DEVICES SHALL BE CORRECTED IMMEDIATELY.
- CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME, SLOPE DRAIN STRUCTURE OR APPROVED CONTROL.
- SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM WATER SYSTEM, DITCH OR CHANNEL. ALL STORM WATER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
- WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION.
- PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES MUST BE PROVIDED TO ENSURE INTENDED PURPOSE IS ACCOMPLISHED. THE DEVELOPER, OWNER AND/OR CONTRACTOR SHALL BE CONTINUALLY RESPONSIBLE FOR ALL SEDIMENT CONTROLS. SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.
- WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE WITH CURBS AND GUTTERS, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL SUBDIVISION LOTS AS WELL AS TO LARGER LAND DISTURBING ACTIVITIES.

- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
- PROPERTIES AND WATERWAYS DOWNSTREAM FROM CONSTRUCTION SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND EROSION AT ALL TIMES DURING CONSTRUCTION.
- EROSION CONTROL DESIGN AND CONSTRUCTION SHALL FOLLOW THE REQUIREMENTS IN INDEX NUMBERS 101, 102 AND 103 OF F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS AND COUNTY PERMITS.
- CONTRACTOR IS RESPONSIBLE FOR ALL SURFACE WATER DISCHARGES, RAINFALL RUN OFF OR DEWATERING ACTIVITIES.
- CONTRACTOR MUST INCORPORATE ALL BMP'S NECESSARY TO MEET OR EXCEED STATE WATER QUALITY AND SWPPP REQUIREMENTS.
- THE POLLUTION PREVENTION PLAN IS A MINIMUM GUIDELINE ONLY. ADDITIONAL BMP'S MAY BE NECESSARY AT CONTRACTOR'S EXPENSE.
- NOI TO BE POSTED ON SITE.
- DEWATERING ACTIVITIES:
  - A -DISCHARGE MUST NOT EXCEED STATE WATER QUALITY STANDARDS.
  - B -CONTRACTOR MUST HAVE A TRANSFERABLE SJRWMD CONSUMPTIVE USE PERMIT KNOWN AS A "NOTICED GENERAL PERMIT FOR SHORT TERM CONSTRUCTION DE-WATERING".
  - C -NO HYDRAULIC PUMPS MAY BE USED FOR DEWATERING UNLESS APPROVED BY THE WATER MANAGEMENT DISTRICT FOR THAT AREA.
  - D -NO TURBID DISCHARGE. TURBIDITY READINGS ARE REQUIRED ONCE A WEEK AND MUST BE REPORTED TO THE PROJECT ENGINEER.



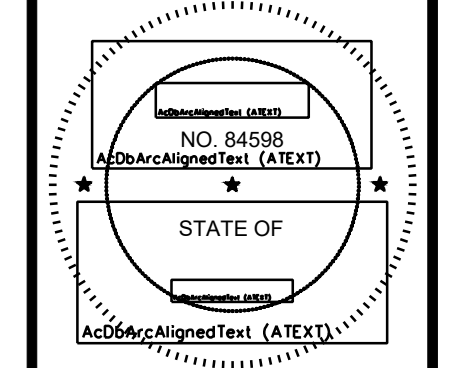
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**NOT FOR CONSTRUCTION**

PROJECT: **SUNRISE LAKES**  
CITY OF FORT PIERCE, FLORIDA

CLIENT: **INTEGRITY 1ST CONSTRUCTION GROUP**



BLAINE BERGSTRESSER, P.E.  
FLORIDA LICENSE NO. 84598  
2/24/2025



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CHECKED BY: BBB  
DATE: 04/02/2024  
CAD I.D.: 24-1001 EX CON

SHEET TITLE:  
**PHASE TWO EROSION CONTROL**

SHEET NUMBER:  
**C-602**

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