



Construction Plans and Specifications Of Wilderness Trail Multi-use Path

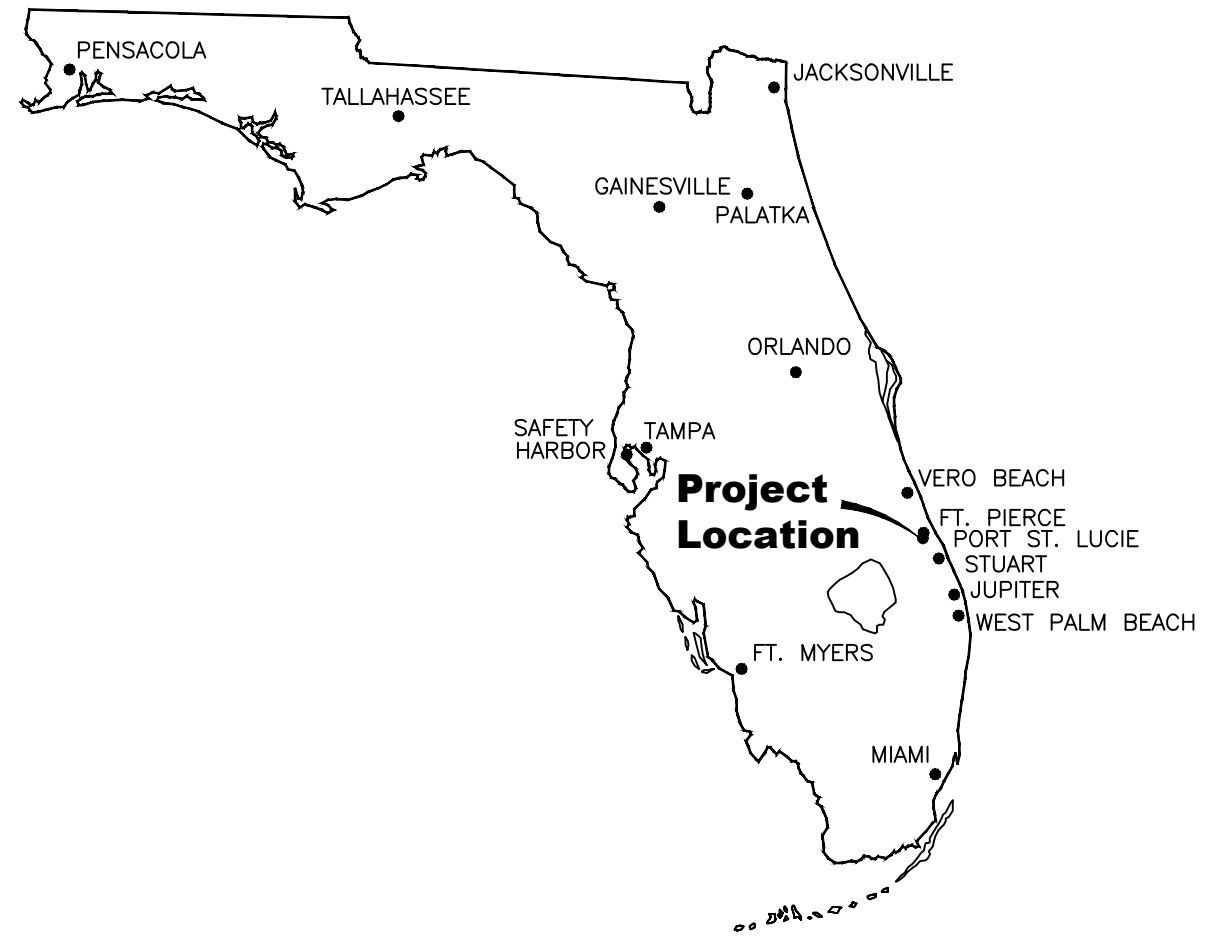
ST. LUCIE COUNTY, FLORIDA

FOR

The City of Port St. Lucie Parks & Recreation Department

LYING IN

SECTION 11&14, TOWNSHIP 37 SOUTH, RANGE 40 EAST



LOCATION MAP

NOTES:
THESE PLANS ARE IN ENGLISH UNITS. ALL ELEVATIONS HEREIN REFERENCE N.A.V.D. 1988 DATUM. ADD 1.48 FEET TO CONVERT TO N.G.V.D. 1929 DATUM. ALL CONSTRUCTION IS TO BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS. CITY OF PORT ST. LUCIE UTILITY STANDARD DETAILS 2020 EDITION EFFECTIVE 2024



NOTES:
THESE PLANS ARE IN ENGLISH UNITS
ALL ELEVATIONS HEREIN REFERENCE
N.A.V.D. 1988 DATUM.

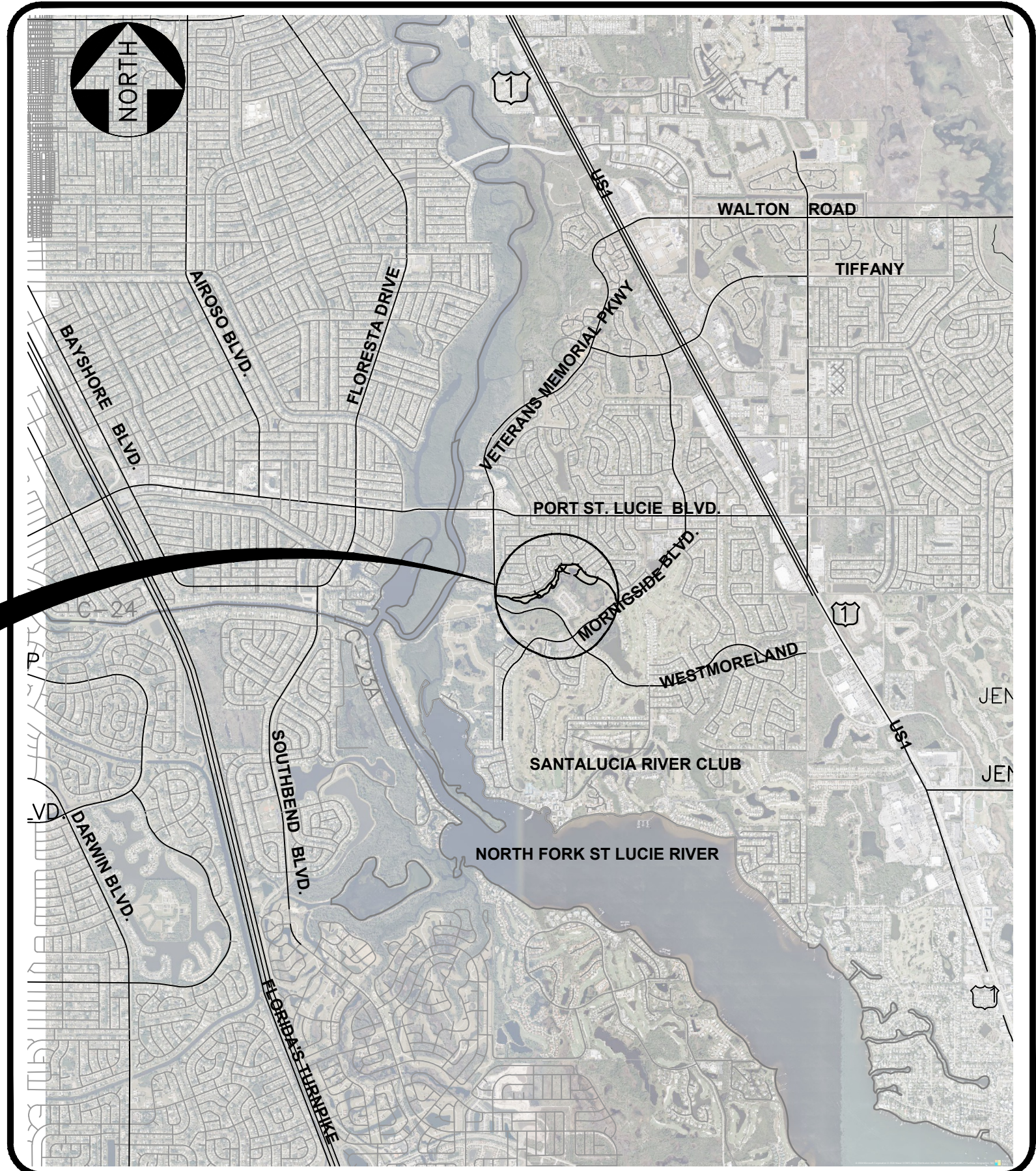
CLIENT
CARRIE WILBUR, CIP
CITY OF PORT ST. LUCIE
PARKS&RECREATION
DEPARTMENT
2195 SE AIROSO BLVD.
PORT ST. LUCIE, FL 34984
PHONE: (772) 344-4102

ENGINEER
JOSEPH W. CAPRA, P.E.
CAPTEC ENGINEERING, INC.
301 N.W. FLAGLER AVENUE
STUART, FLORIDA 34994
PHONE: (772) 692-4344

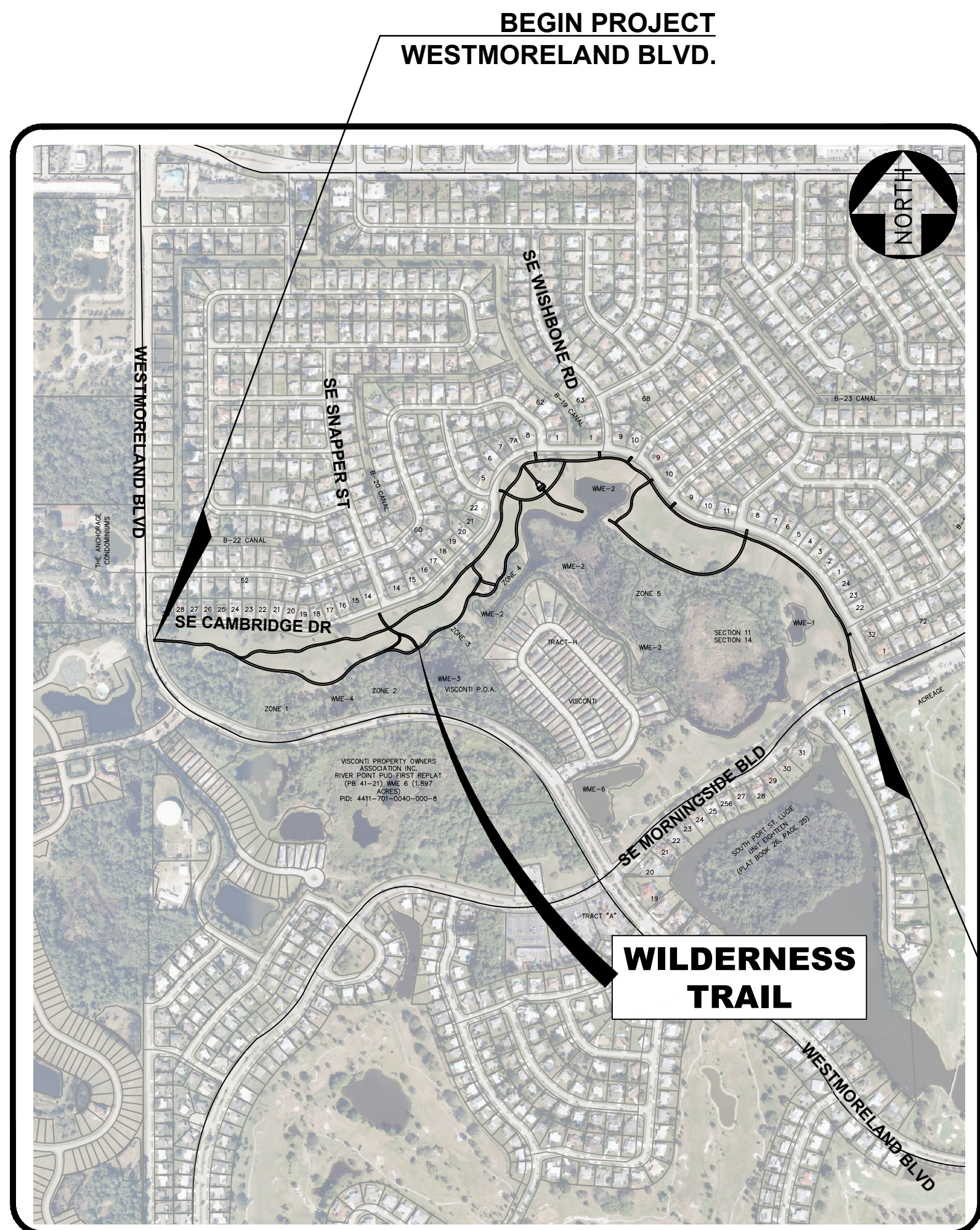


301 N.W. Flagler Avenue
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PROJECT
LOCATION



Vicinity Map
N.T.S.



Site Map
N.T.S.

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END PROJECT SE MORNINGSID BLVD.	

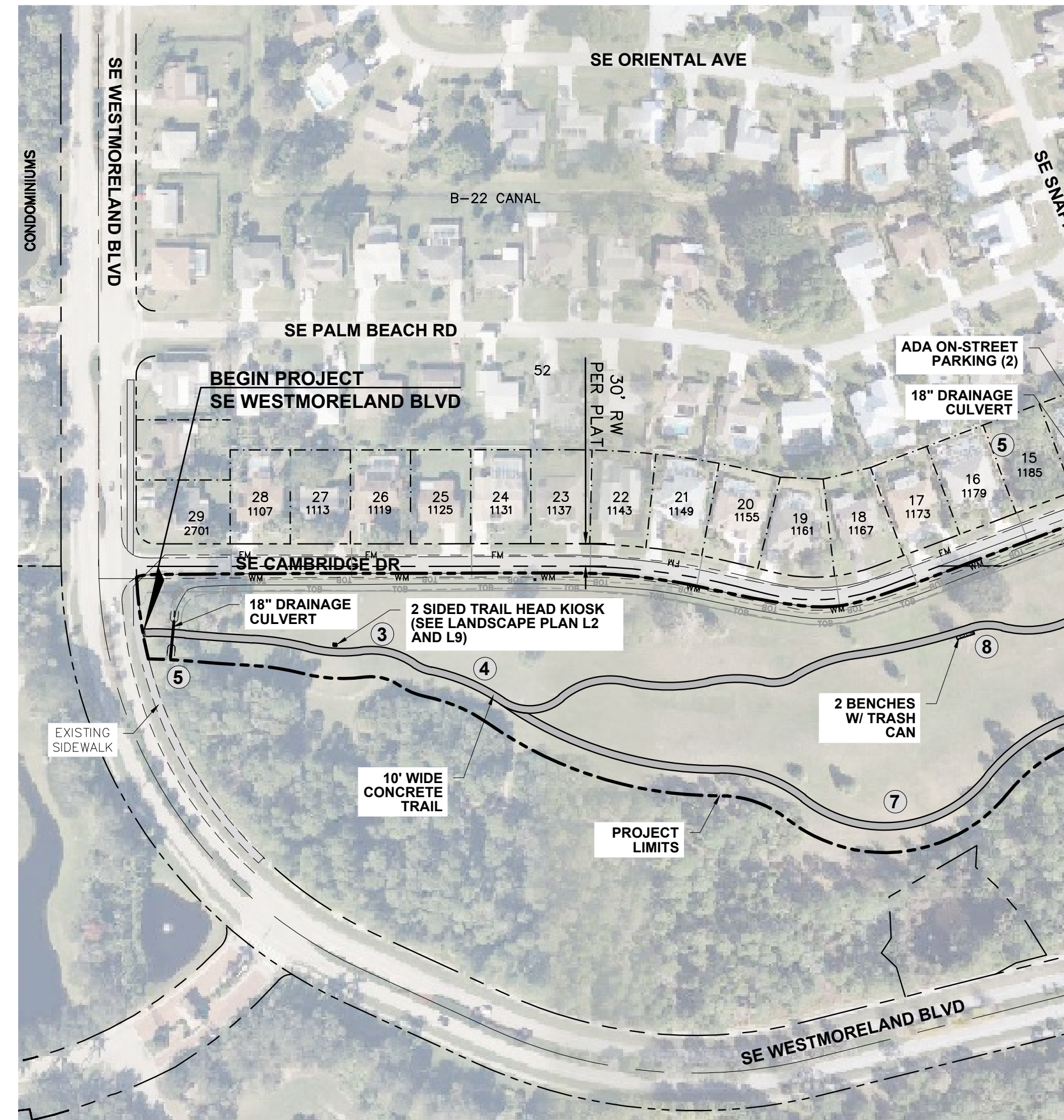
100% BID SET
TASK 1.2
07/03/2025

FDOT 2025-26 STANDARD SPECIFICATIONS, FDOT 2023-24 STANDARD PLANS

CPSLUSD UTILITY FILE #5001-23A

PSL CONTRACT No. 20200109

CPSL PROJ. NO. P25-021



- ADA ON STREET PARKING
RESTROOM / PAVILION W/ TRASH CAN
TRAIL HEAD KIOSK
CONCRETE TRAIL
CULVERT
BIO SWALE
LANDSCAPING
BENCHES W/ TRASH CAN

RIVER POINT PUD FIRST REPLAT (PB 41-21) TRACT J
(56.443 AC) (AS PER PLAT DEDICATION DATED 10-15-02)

Total Site Upland Habit Area	56.44 Ac
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ENVIRONMENTAL SITE ASSESSMENT STATEMENT

AN ENVIRONMENTALLY ASSESSMENT HAS BEEN CONDUCTED FOR THIS SITE. GOPHER TORTOISE BURROWS ARE PRESENT. DUE TO THE LOCATION OF THE BURROWS, THE LAYOUT AND CONSTRUCTION OF THE TRAIL WILL HAVE NO IMPACT ON THE BURROWS. NEITHER A MANAGEMENT PLAN OR RELOCATION PLAN HAVE BEEN PREPARED FOR THIS PROJECT.

THE PROPERTY OWNER, CONTRACTOR, AND AUTHORIZED REPRESENTATIVES SHALL PROVIDE PICKUP, REMOVAL, AND DISPOSAL OF LITTER WITHIN THE PROJECT LIMITS AND SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE AREA FROM THE EDGE OF PAVEMENT TO THE PROPERTY LINE WITHIN THE CITY'S RIGHT-OF-WAY IN ACCORDANCE WITH CITY CODE, SECTION 41.08 (G).

Pavilion/Restroom	Gross Floor Area
Building	1,826 sf

Parking Requirement:
ON-STREET PARKING WILL MEET CITY OF PORT ST.
LUCIE CODE OR ORDINANCES AND DESIGN CRITERIA.

WITH REGARD TO PARKING SPACES FOR WILDERNESS TRAIL, THE CITY OF PORT ST. LUCIE 10-YEAR PARKS AND RECREATION SYSTEM MASTER PLAN REFERS TO WILDERNESS TRAIL, (FORMERLY WILDERNESS PARK) AS UNDEVELOPED OPEN SPACE. THE CITY TO DEVELOP THE PARK IN ONE PHASE, INCLUDING EIGHT ADA PARKING STALLS. THE PARK IS OPEN ONLY DURING DAYLIGHT HOURS. THE 10-YEAR PARKS AND RECREATION SYSTEM MASTER PLAN DISCUSSES OPPORTUNITIES FOR NEIGHBORHOOD USERS TO WALK TO PARKS LIKE WILDERNESS TRAIL. ADDITIONAL PARKING IS PROVIDED WITHIN WALKABLE DISTANCE TO THE TRAIL AT TWO CITY-OWNED FACILITIES. THE SAINTS GOLF COURSE IS LOCATED WITHIN WALKABLE DISTANCE TO THE EAST OF THE TRAIL. PIONEER PARK IS LOCATED WITHIN WALKABLE DISTANCE TO THE NORTH OF THE TRAIL. FOR ALL OF THESE REASONS, PARKING IS ADEQUATE TO ACCOMMODATE PARK USERS.

THE PROPOSED SITE IS LOCATED WITHIN THE CITY OF PORT ST. LUCIE UTILITY DEPARTMENT SERVICE AREA. POTABLE WATER SUPPLY IS AVAILABLE VIA AN 8" WATER MAIN AND DOMESTIC WASTEWATER COLLECTION IS AVAILABLE VIA A 4" FORCE MAIN ALONG CAMBRIDGE DRIVE.

THE MAINTENANCE OF TRAFFIC PLAN (MOT) SHALL BE IN ACCORDANCE WITH THE APPLICABLE DOT INDEX (600 SERIES), AND THE MANUAL ON UNIFORM TRAFFIC CONTROL FOR STREETS AND HIGHWAYS (MUTCD). THE MAJORITY OF VISITORS TO THE PARK ARE BY LOCAL NEIGHBORHOOD RESIDENTS TYPICALLY ON FOOT OR BICYCLE. DAILY VEHICULAR SITE VISITS ARE DURING DAYLIGHT HOURS ONLY GENERALLY BY NEIGHBORHOOD RESIDENTS. PRIOR TO CONSTRUCTION, OFF-STREET PARKING WAS AVAILABLE ON THE PARK SITE. AFTER CONSTRUCTION, EIGHT (8) ON-STREET HANDICAP PARKING STALLS WILL BE AVAILABLE.

THE PROPOSED IMPROVEMENTS WILL MEET BOTH SFWMD AND CITY OF PORT ST. LUCIE DESIGN CRITERIA. THREE (3) EXISTING DRAINAGE SWALES WILL BE ENHANCED AS BIOSWALES FOR WATER QUALITY TREATMENT FOR TMDL REDUCTIONS. THE PROPERTY DRAINS TO EXISTING ROADSIDE SWALES AND WETLANDS. STORMWATER DISCHARGES TO THE NORTH INTO THE EXISTING B-19 CANAL AND ULTIMATELY TO THE NORTH FORK OF THE ST. LUCIE RIVER.

PROJECT LIES WITHIN SFWMD ERP 56-01506-P.
MINIMUM ROAD CROWN ELEVATION = 8.00 NAVD
MINIMUM BUILDING FLOOR ELEVATION = 8.50 NAVD

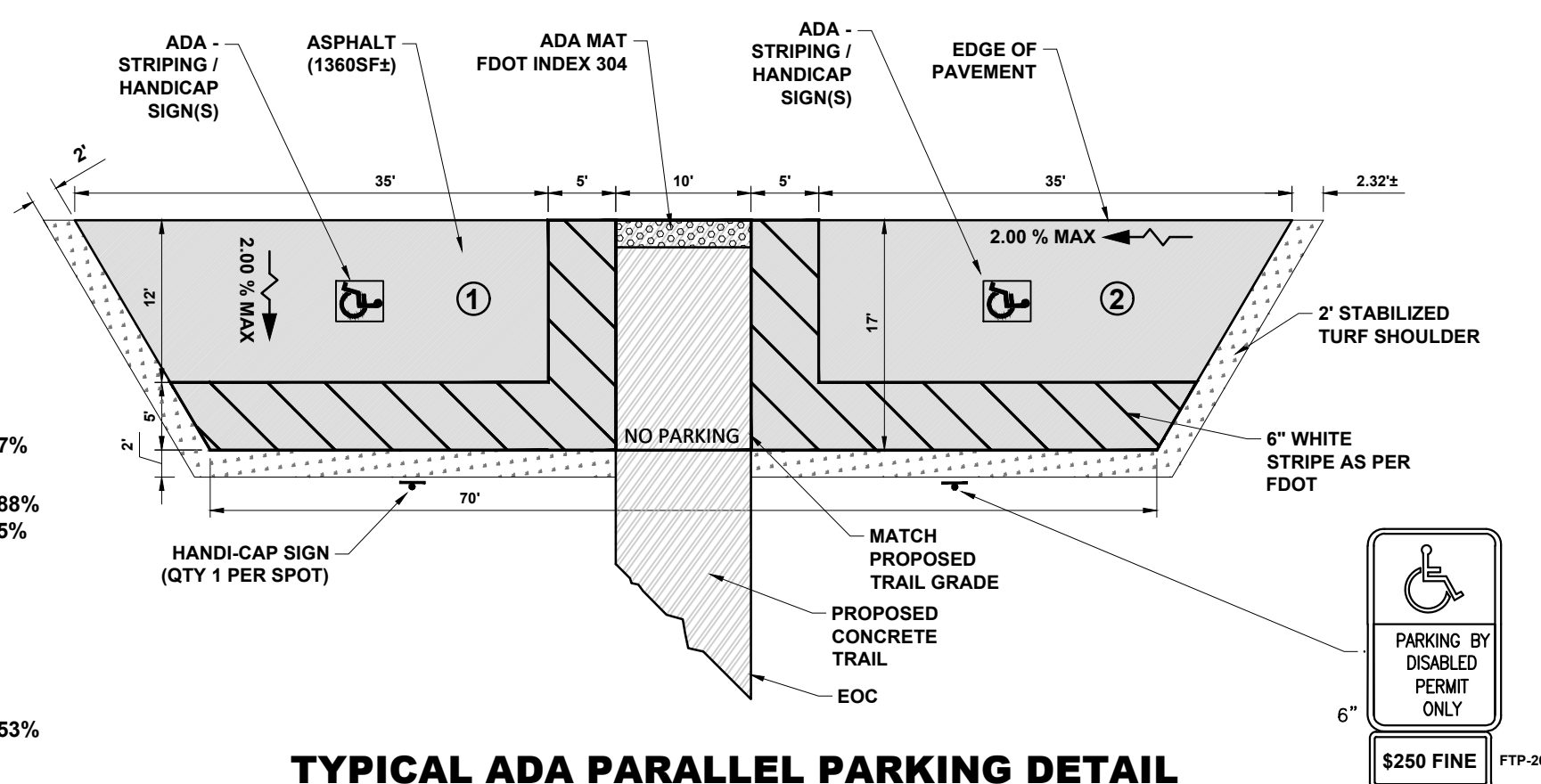
Site Address	2701 SE Westmoreland
Total Gross Site Area	56.44 Ac. / 2,458,526 sf
Future Land Use	OSR
Zoning:	PUD
Existing use:	Wilderness Park
Proposed Use:	Wilderness Park
Upland Vegetation	56.44 Ac. / 2,458,526 sf

<u>Impervious Area:</u>		
Total Building Coverage		
Shade Pavilion/Restroom	1,826 sf	0.04 ac.
Trail	103,292 sf	2.37 ac.
Vehicular Use Area	4,760 sf	0.11 ac.

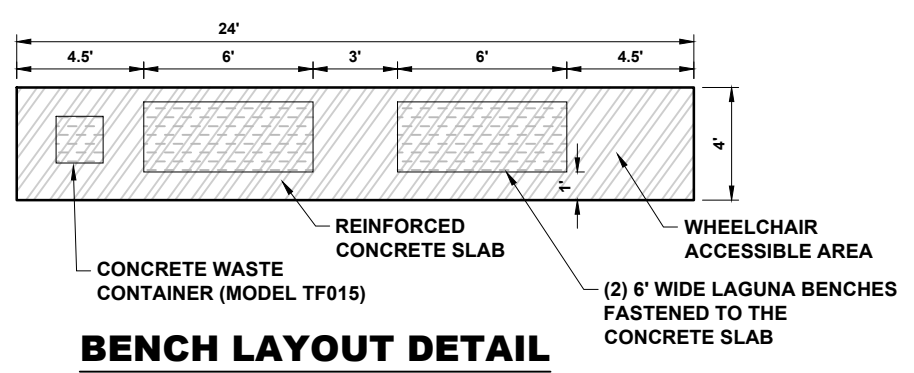
Open Space / Landscape Area	2,332,582 sf	53.54 Ac.	94.88%
Dry Retention Area (@TOB)	16,066 sf	0.37 Ac.	0.65%
Bio Swale #1	2,000 sf	0.05 Ac.	
Bio Swale #2	1,750 sf	0.04 Ac.	
Bio Swale #3	2,116 sf	0.05 Ac.	
Swale(s) - other	10,200 sf	0.23 Ac	

Site Limits Area:

FRONT YARD SETBACK: 25 FT
SIDE YARD SETBACK: 25 FT
REAR YARD SETBACK: 25 FT



N.T.S.



ADA PARKING NOTES:
TOP PORTION OF FLORIDA TRANSPORTATION PLAN 25& 26
SHALL HAVE A REFLECTIVE BLUE BACKGROUND WITH
WHITE REFLECTIVE SYMBOL AND BORDER.

BOTTOM PORTION SHALL HAVE A REFLECTIVE WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER

FLORIDA TRANSPORTATION PLAN 25 & 26 IS FOR USE IN
AREAS WHERE SPACE IS LIMITED.

SIGN HEIGHT SHALL BE 7 FEET MEASURED FROM THE GROUND OR SIDEWALK TO THE BOTTOM OF "PERMIT ONLY" SIGN OF 6 FEET TO THE BOTTOM OF "\$250 FINE" SIGN.

SCALE VERIFICATION

SOLID BAR IS EQUAL
TO ONE INCH ON
ORIGINAL DRAWING,

**WILDERNESS TRAIL
MULTI USE PATH
PORT ST. LUCIE**

OVERALL IMPROVEMENT SITE PLAN

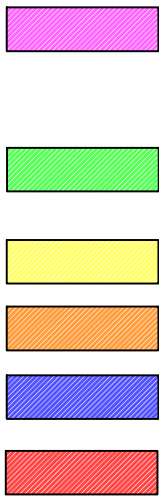
JOSEPH W. CAPRA
301 N.W. Flagler Ave.
Stuart, Florida 34994
P.E. No. 37638

Printed Date:

JOB No.: **1813.18.1**
SHEET
2 OF **22**



WILDERNESS TRAIL BIDS			
PHASE	DESCRIPTION	TRAIL LENGTH LF	COLOR
BASE BID	TRAIL, DRAINAGE, BENCHES, WASTE CONTAINERS, SIGNAGE AND LANDSCAPING ALONG TRAIL) NO PARKING	5810'	PINK
ALTERNATIVE NO. 1 (TRAIL AND LANDSCAPING)	TRAIL AND LANDSCAPING	1220'	GREEN
ALTERNATIVE NO. 2	TRAIL, BENCH LOOK-OUT AND LANDSCAPING	2578	YELLOW
ALTERNATIVE NO. 3	TRAIL, RESTROOM AND LANDSCAPING	142	ORANGE
ALTERNATIVE NO. 4	TRAIL, BENCH LOOK-OUT AND LANDSCAPING	1367	BLUE
ALTERNATIVE NO. 5	PARKING AND LANDSCAPING		RED
	TOTAL LENGTH	11,117' (2.11MI)	



DATE: 07/03/2025

DRAWN BY: JJK

DESIGNED BY: CS

CHECKED BY: JWC

PROJECT No.: 1813.18.1

HORIZ. SCALE: 1" = 150'

VERT. SCALE: N/A

CADD FILE: 18131818.dwg

SCALE VERIFICATION

1

0

SOLID BAR IS EQUAL ORIGINAL DRAWING. ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

WILDERNESS TRAIL

MULTI USE PATH

PORT ST. LUCIE

OVERALL PHASING EXHIBIT

JOSEPH W. CAPRA
301 N.W. Flagler Ave.
Stuart, Florida 34994
P.E. No. 37638

Printed Date:

JOB No. 1813.18.1

SHEET

2A OF 22

CAPEC Engineering, Inc.

Civil Engineering Professionals

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Engineering Business
No. EB-0007657

THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADOPTION BY CAPEC ENGINEERING, INC. SHALL BE WITHOUT LIABILITY TO CAPEC ENGINEERING, INC.

P:\1801\1813_181 Wilderness Trail Phase 1\dwg\1813_181 Gen Notes.dwg 7/20/25 3:25:15 PM CAPTEC Engineering, Inc.

WILDERNESS TRAIL PROJECT GENERAL NOTES

1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988).
2. ALL DRAINAGE INFRASTRUCTURE IS TO REMAIN UNLESS OTHERWISE NOTED.
3. ALL GRADES SHOWN ARE FINISHED GRADES, UNLESS OTHERWISE NOTED.
4. STATIONING AND OFFSETS REFER TO THE BASELINE OF CONSTRUCTION, UNLESS OTHERWISE NOTED.
5. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.

6. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE ENGINEER SHOULD NOTIFY THE CITY SURVEYOR , WITHOUT DELAY, BY TELEPHONE (772) 871-5178.

7. EXISTING IMPACTED DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE RESTORED TO THE CITY OF PORT ST. LUCIE (CITY OF PSL) STANDARDS AT THE SAME LOCATION AND WIDTH, UNLESS OTHERWISE SHOWN IN THE PLANS. RESIDENTIAL ACCESS MUST BE MAINTAINED AT ALL TIMES. LIMITS OF DRIVEWAY REMOVAL ARE TO BE DETERMINED BY THE PROJECT MANAGER AT THE TIME OF CONSTRUCTION. IN WHICH CASE, CONTRACTOR WILL NOTIFY HOMEOWNER 48 HOURS IN ADVANCE AND WILL COMPLETE DRIVEWAY RECONSTRUCTION WITHIN ONE WEEK OF THIS NOTIFICATION.

8. NO CONSTRUCTION SHALL COMMENCE UNTIL ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN SECURED AND THE CONTRACTOR IS ISSUED A "NOTICE TO PROCEED".

9. DURING CONSTRUCTION, SHOULD ANY DRAINAGE STRUCTURES (INCLUDING PIPES) BE FOUND THAT ARE NOT SHOWN ON THE PLANS, NOTIFY THE ENGINEER IMMEDIATELY.

10. IN REFERENCE TO EXISTING UTILITIES AND UTILITY ADJUSTMENTS:

A. THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE EXACT HORIZONTAL AND VERTICAL LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY IF "OTHER" UTILITIES (NOT SHOWN ON THE PLANS) EXIST WITHIN THE AREA OF CONSTRUCTION. SHOULD THERE BE UTILITY CONFLICTS, THE CONTRACTOR SHALL INFORM THE ENGINEER AND NOTIFY THE RESPECTIVE UTILITY OWNER(S) TO RESOLVE UTILITY CONFLICTS AND UTILITY ADJUSTMENTS AS REQUIRED.

B. WATER AND SANITARY SEWER UTILITY WORK SHALL BE IN CONFORMANCE WITH ALL WATER AND SANITARY SEWER UTILITY WORK SHALL BE IN CONFORMANCE WITH ALL CODES, STANDARDS, AND ORDINANCES CURRENTLY ADOPTED BY THE STATE OF FLORIDA D.E.P. AND PORT ST. LUCIE UTILITY SYSTEMS DEPARTMENT (PSLUSD).

11. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE STATE ONE CALL OF FLORIDA (1-800-432-4770) AND UTILITY OWNERS LISTED BELOW IN TWO BUSINESS DAYS (OR 10 DAYS IF ON THE JOB SITE).

COMPANY	CONTACT	TEL. NO.
ATT	DANIEL KOENIG	(772)-971-7136
COMCAST	ANTHONY SPRINGSTEEL	(561)-804-0973
CPSL TRAFFIC	PAUL JOHNSON	(772)-871-5182
CPSL UTILITIES	LANEY SOUTHERLY	(772)-873-6442
CROWN CASTLE	KELLY KLINEFELTER	(724)-743-6085
FL CITY GAS	ALEXANDER LOPEZ	(305)-835-3647
FPL	MARTIN MIKHAIL	(561)-993-6825

12. IF DEWATERING PERMIT IS REQUIRED FOR THIS PROJECT, THE CONTRACTOR WILL BE REQUIRED TO OBTAIN A DEWATERING PERMIT OR WATER USE PERMIT AND ALLOW TIME FOR THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT AND/OR FDEP TO REVIEW AND APPROVE THE PERMIT PRIOR TO THE CONSTRUCTION START DATE.

13. WORK HOURS ARE FROM 7:00 AM TO DUSK, MONDAY-FRIDAY. WORK WILL NOT BE ALLOWED ON WEEKENDS OR HOLIDAYS OBSERVED BY THE CITY OF PORT ST. LUCIE UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE CITY. THE CONTRACTOR MUST RECEIVE WRITTEN PERMISSION FROM THE CITY AND PROVIDE AN APPROVED MOT PLAN BEFORE ANY LANE CLOSURES OCCUR.

14. THE CONTRACTOR SHALL COORDINATE SELECTION AND REVIEW OF ANY PROPOSED STAGING AREAS ASSOCIATED WITH THIS PROJECT WITH CARRIE WILBUR, PM. PHONE NUMBER: (772)-344-4102

15. EXISTING LANDSCAPE IMPROVEMENT THAT ARE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS ARE TO BE RELOCATED PER THE DIRECTION OF THE PROJECT MANAGER. VACANT LOTS WITH VEGETATION SUCH AS INVASIVE PLANTS AND EXOTICS SHALL BE CLEARED IN THE LOCATION IN CONFLICT WITH THE PROPOSED TRAIL AND SWALE-LINER INSTALLATION.

16. LANE CLOSURES SHALL BE COORDINATED WITH ST. LUCIE COUNTY SCHOOL BOARD, ST.LUCIE COUNTY FIRE RESCUE AND THE CITY OF PORT ST. LUCIE AT LEAST 48 HOURS IN ADVANCE.

17. FINAL ADJUSTMENT OF ANY STORM STRUCTURE TOPS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. DRAINAGE STRUCTURES SHALL BE PROVIDED IN 2 PARTS.

18. ANY KNOWN OR SUSPECT HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE PROJECT MANAGER, WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECT HAZARDOUS MATERIAL FROM FURTHER ACCESS. THE PROJECT ENGINEER IS TO NOTIFY THE PROPER REGULATORY AUTHORITY OF THE DISCOVERY. THE PROPER REGULATORY AUTHORITY WILL ADVISE/DIRECT THE PROJECT ENGINEER IN THE INVESTIGATION, IDENTIFICATION AND/OR REMOVAL/REMEDIATION OF THE MATERIAL IN QUESTION AS NEEDED. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF SUSPECTED CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE PROJECT MANAGER.

19. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE PROJECT MANAGER IN ACCORDANCE WITH THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE.

20. EXISTING MAILBOXES SHALL BE MAINTAINED AT ALL TIMES. CONTRACTOR IS RESPONSIBLE FOR REPLACING DAMAGED MAILBOXES WITH LIKE KIND AT NO ADDITIONAL COST.

21. ALL WORK ASSOCIATED WITH THIS PROJECT IS TO BE PERFORMED WITHIN THE RIGHT-OF-WAY LIMITS AS DEPICTED ON THE PLAN SHEETS.

22. ALL CONCRETE TRAIL JOINTS SHALL BE TOOLED WITHOUT EXPANSION JOINTS.

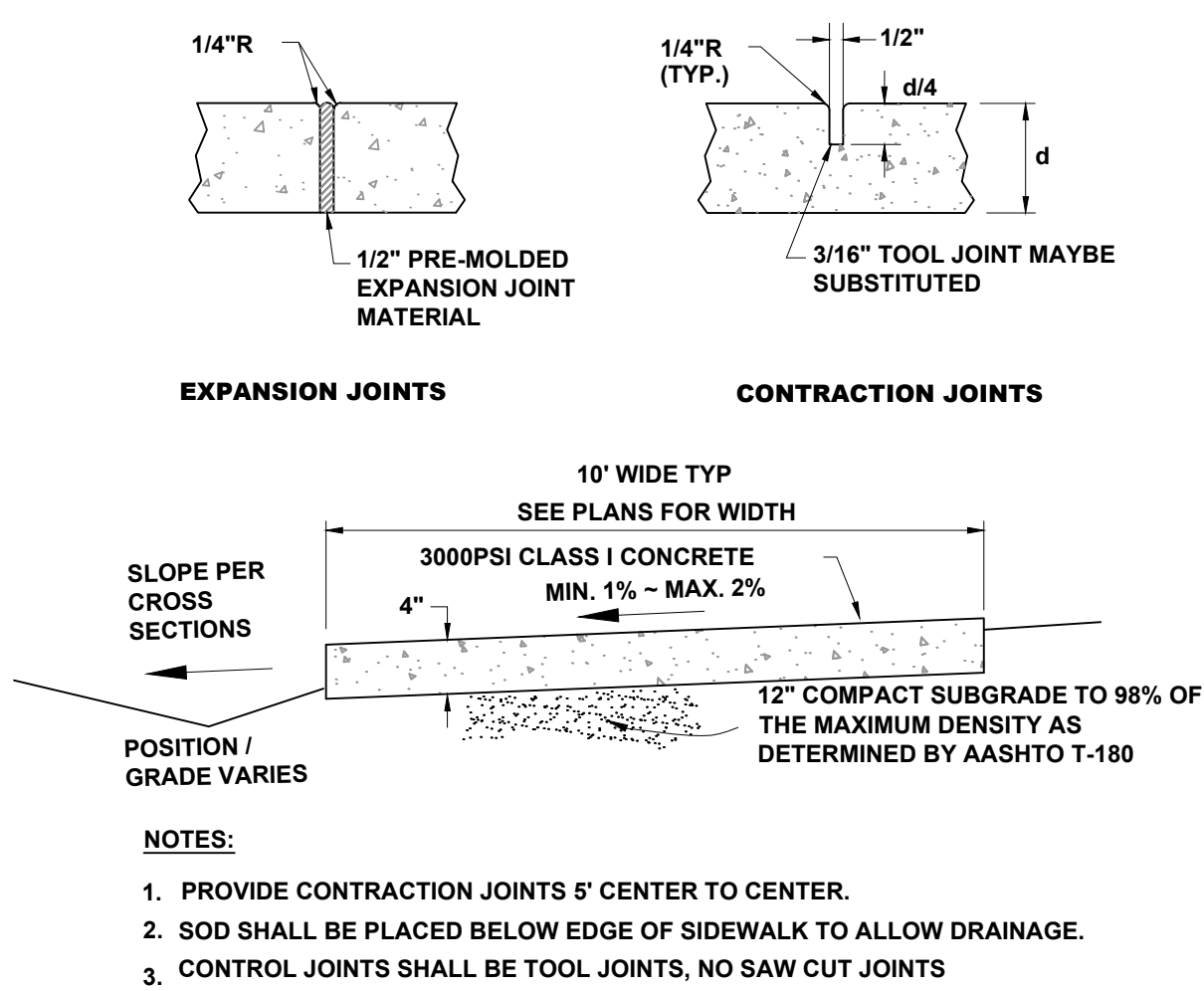
23. ALL WORK, CONCRETE AND MATERIALS SHALL COMPLY WITH THE LATEST EDITION, INCLUDING ALL REVISIONS, OF THE FOLLOWING STANDARDS AND PUBLICATIONS: -AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) -AMERICAN CONCRETE INSTITUTE (ACI) -AMERICAN SOCIETY FOR TESTING MATERIAL (ASTM) -AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG) -FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS -FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION -FDOT STRUCTURES STANDARD INDEX.

24. ALL DISTURBED AREAS SHALL BE REPAIRED TO EXISTING CONDITIONS OR BETTER. THE CONTRACTOR SHALL ONLY BE ENTITLED FOR PAYMENT OF AUTHORIZED AREAS WITHIN THE PROJECT WORK LIMITS. THE PROJECT WORK LIMITS SHALL BE ESTABLISHED BY THE CITY OF PORT ST. LUCIE PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE UNNECESSARY DAMAGE. ALL DAMAGED AREAS OUTSIDE THE PROJECT WORK LIMITS MUST BE REPAIRED TO EXISTING CONDITIONS (INCLUDING IRRIGATION LINES AND EQUIPMENT) OR BETTER, THE COST OF THE CONTRACTOR, PRIOR TO FINAL PAYMENT.

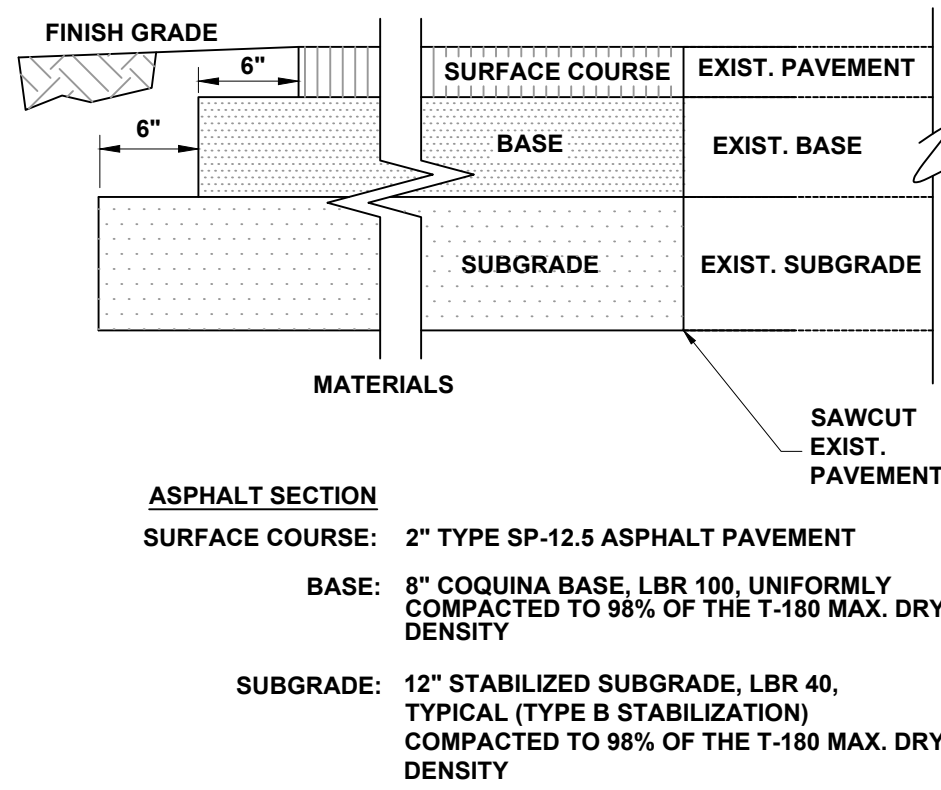
25. ALL SOD SHALL HAVE A WARRANTY OF 90 DAYS AFTER THE FINAL COMPLETION DATE OF THE PROJECT. SOD REPLACED BY THE CONTRACTOR MUST BE THE SAME TYPE AS REMOVED.

26. ROADSIDE GRADING NOTES:
- TRAIL LAYOUT SHALL BE TYPICALLY A 6' OFFSET FROM THE EDGE OF THE TRAVEL WAY ALONG ONE SIDE OF THE ROAD.
 - TRAILS ARE TO BE 4 IN. THICK CONCRETE TYPICALLY.
 - TRAILS WITHIN 6' OF INTERSECTIONS SHALL BE 6 IN. THICK.
 - TRAIL CROSS-SLOPE SHALL NOT EXCEED 2% IN ANY LOCATION.
 - TRAIL LONGITUDINAL SLOPE SHALL NOT EXCEED 5% AT ANY LOCATION.
 - GRADING BASE LINE IS CONSIDERED EDGE OF PAVEMENT.
 - SOD SHALL BE SET 0.5 IN. BELOW IN GRADE BELOW THE EDGE OF PAVEMENT/TRAIL. SWALE FORESLOPE AND BACKSLOPE SHALL BE 3:1 MAX, 4:1 TYP. (MINIMAL GRADING PREFERRED).
 - SWALE GRADING (GUTTER-LINE) IS 0.15% MIN. 0.20% PREFERRED.
 - 12" SUBGRADE SHALL BE COMPACTED TO 98% OF MODIFIED PROCTOR (ASTM D1557/AASHTO T-180).
 - ALL AREAS ADJACENT TO THE PROPOSED TRAIL SHALL BE RE-GRADED TO REPAIR ANY EROSION, POTENTIAL DROP OFFS, OR TRIPPING HAZARDS.

NOTE:
PROJECT LIES WITHIN SFWMRD ERP 56-01506-P.
MINIMUM ROAD CROWN ELEVATION = 8.00 NAVD
MINIMUM BUILDING FLOOR ELEVATION = 8.50 NAVD



TYPICAL TRAIL
N.T.S.



TYPICAL PARKING/PAVEMENT SECTION
N.T.S.

CONTRACTOR TO MEANDER SIDEWALK/TRAIL TO AVOID ANY VALVES (WATER AND SEWER) FOUND ON-SITE IN CONFLICT WITH SIDEWALK/TRAIL.

ENGINEER OF RECORD INSPECTION REQUIREMENTS CONTRACTOR TO CALL CONTRACT ENGINEER OF RECORD 48 HOURS ADVANCE FOR FOLLOWING INSPECTIONS:
1. PRECONSTRUCTION MEETING
2. STAKE-OUT
3. CONST./INSTALL STORM WATER/DRAINAGE
4. WATER & SEWER SERVICE
5. CONSTRUCT VERTICAL RESTROOM PAVILION
6. CONSTRUCT PARKING AREAS
7. INSTALL TRAIL
8. INSTALL LANDSCAPE (LITTORAL/BIOSWALES/IRRIGATION)
9. FINAL

10 DAYS PRIOR TO CROSSING EXISTING CONFLICTS, THE CONTRACTOR WILL POTHOLE THE LOCATION OF ALL EXISTING UTILITIES TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATIONS.



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CAPTEC
Engineering, Inc.
Civil Engineering Professionals

Engineering Business
No. EB-007657

DATE:	07/03/2025
DRAWN BY:	JFK
DESIGNED BY:	CS
CHECKED BY:	JWC
PROJECT No.:	1813.18.1
HORIZ. SCALE:	N/A
VERT. SCALE:	N/A
CADD FILE:	1813-01.dwg

NO.	DATE	BY	REVISIONS
1	07/03/2025	JFK	100% BID SET

SCALE
VERIFICATION

1
0

SOLID BAR IS EQUAL
ORIGINAL DRAWING
ADJUST ALL SCALED
DIMENSIONS
ACCORDINGLY

**WILDERNESS TRAIL
MULTI USE PATH**
PORT ST. LUCIE

GENERAL NOTES & DETAILS

JOSEPH W. CAPRA
301 N.W. Flagler Ave.
Stuart, Florida 34994
P.E. No. 37638

Printed Date:

JOB No. **1813.18.1**
SHEET
3 OF **22**

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GEOTECHNICAL ENGINEERING EVALUATION

7.1 GENERAL
BASED ON THE FINDINGS OF OUR SITE EXPLORATION, OUR EVALUATION OF SUBSURFACE CONDITIONS, AND JUDGMENT BASED ON OUR EXPERIENCE WITH SIMILAR PROJECTS, WE CONCLUDE THAT THE SOILS UNDERLYING THIS SITE ARE GENERALLY SATISFACTORY TO SUPPORT THE PROPOSED LIGHTLY-LOADED STRUCTURE (RESTROOM/PAVILION BUILDING) ON CONVENTIONAL SPREAD FOUNDATIONS OR MONOLITHIC (THICKENED-EDGE) CONCRETE SLABS. SIMILARLY, THE PROPOSED MULTI-USE TRAIL AND BOARDWALK CAN BE SUPPORTED ON THE ENCOUNTERED SOILS. HOWEVER, IN OUR OPINION, THE BEARING CAPACITY OF THE LOOSE NEAR-SURFACE SOILS SHOULD BE IMPROVED IN ORDER TO REDUCE THE RISK OF UNSATISFACTORY FOUNDATION AND PAVEMENT PERFORMANCE. THE GENERAL SOIL IMPROVEMENT WE RECOMMEND INCLUDES PROOFROLLING THE BUILDING SITE AND TRAIL ALIGNMENT SITE WITH A HEAVY VIBRATORY ROLLER.

FOLLOWING ARE SPECIFIC RECOMMENDATIONS FOR SITE PREPARATION PROCEDURES, FOUNDATION DESIGN, AND PAVEMENT SYSTEMS FOR THE PROJECT FEATURES.

7.2 PROPOSED RESTROOM/PAVILION AND MULTI-USE TRAIL
THE SITE SURFACE SHOULD BE CLEARED, GRUBBED AND STRIPPED OF ALL VEGETATION, TOPSOIL, TRASH AND DEBRIS. STUMPS (IF ANY) SHOULD BE REMOVED ENTIRELY AND THEIR EXCAVATIONS BACKFILLED WITH CLEAN GRANULAR SOILS PLACED IN 6-12 INCH LIFTS, AND WITH EACH LIFT COMPACTED TO A DRY DENSITY NOT LESS THAN 95 PERCENT OF THE MODIFIED PROCTOR (ASTM D1557) MAXIMUM DRY DENSITY OF THE COMPACTED MATERIAL.

FOLLOWING CLEARING, THE PROPOSED BUILDING AND PAVEMENT/TRAIL AREAS SHOULD BE PROOFROLLED WITH A 10 TON (MINIMUM) VIBRATORY ROLLER; ANY SOFT, YIELDING SOILS DETECTED SHOULD BE EXCAVATED AND REPLACED WITH CLEAN, COMPACTED BACKFILL THAT CONFORMS WITH THE RECOMMENDATIONS BELOW. SUFFICIENT PASSES SHOULD BE MADE DURING THE PROOFROLLING OPERATIONS TO PRODUCE DRY DENSITIES NOT LESS THAN 95 PERCENT OF THE MODIFIED PROCTOR (ASTM D1557) MAXIMUM DRY DENSITY OF THE COMPACTED MATERIAL TO DEPTHS OF 1 FOOT BELOW THE COMPACTED SURFACE, OR 1 FOOT BELOW THE BOTTOM OF FOOTINGS, WHICHEVER IS LOWER. IN ANY CASE, THE BUILDING AND PAVEMENT AREAS SHOULD RECEIVE NOT LESS THAN 10 OVERLAPPING PASSES, HALF OF THEM IN EACH OF TWO PERPENDICULAR DIRECTIONS.

WE RECOMMEND THAT THE SITE PREPARATION CONTRACTOR CLOSELY MONITOR THE VIBRATIONS PRODUCED DURING THE PROOFROLLING OPERATIONS SO THAT THEY DO NOT ADVERSELY AFFECT ANY NEARBY STRUCTURES. AFTER THE EXPOSED SURFACE HAS BEEN PROOFROLLED AND TESTED TO VERIFY THAT THE DESIRED DRY DENSITY HAS BEEN OBTAINED, THE BUILDING AND PAVEMENT/TRAIL AREAS MAY BE FILLED TO THE DESIRED GRADES. ALL FILL MATERIAL SHOULD CONFORM TO THE RECOMMENDATIONS BELOW. IT SHOULD BE PLACED IN UNIFORM LAYERS NOT EXCEEDING 12 INCHES IN LOOSE THICKNESS. EACH LAYER SHOULD BE COMPACTED TO A DRY DENSITY NOT LESS THAN 95 PERCENT OF ITS MODIFIED PROCTOR (ASTM D1557) MAXIMUM VALUE.

AFTER COMPLETION OF THE GENERAL SITE PREPARATIONS DISCUSSED ABOVE, THE BOTTOM OF FOUNDATION EXCAVATIONS DUG THROUGH THE COMPACTED NATURAL GROUND, FILL OR BACKFILL, SHOULD BE COMPACTED SO AS TO DENSIFY SOILS LOOSENED DURING OR AFTER THE EXCAVATION PROCESS, OR WASHED OR SLOUGHED INTO THE EXCAVATION PRIOR TO THE PLACEMENT OF FORMS. A VIBRATORY, WALK-BEHIND PLATE COMPACTOR CAN BE USED FOR THIS FINAL DENSIFICATION IMMEDIATELY PRIOR TO THE PLACEMENT OF REINFORCING STEEL, WITH PREVIOUSLY DESCRIBED DENSITY REQUIREMENTS TO BE MAINTAINED BELOW THE FOUNDATION LEVEL.

FOLLOWING REMOVAL OF FOUNDATION FORMS, BACKFILL AROUND FOUNDATIONS SHOULD BE PLACED IN LIFTS SIX INCHES OR LESS IN THICKNESS, WITH EACH LIFT INDIVIDUALLY COMPACTED WITH A PLATE TAMPER. THE BACKFILL SHOULD BE COMPACTED TO A DRY DENSITY OF AT LEAST 95 PERCENT OF THE MODIFIED PROCTOR (ASTM D1557) MAXIMUM DRY DENSITY. FOUNDATION FORMS ARE RECOMMENDED DUE TO THE SANDY NATURE OF THE ENCOUNTERED SOILS.

ALL FILL MATERIAL UNDER THE BUILDINGS AND TRAIL SHOULD CONSIST OF CLEAN SANDS FREE OF ORGANICS AND OTHER DELETERIOUS MATERIALS. THE FILL MATERIAL SHOULD HAVE NOT MORE THAN 12 PERCENT BY DRY WEIGHT PASSING THE U.S. NO. 200 SIEVE, AND NO PARTICLE LARGER THAN 3 INCHES IN DIAMETER.

AFTER THE FOUNDATION SOILS HAVE BEEN PREPARED AS RECOMMENDED ABOVE, THE SITE SHOULD BE SUITABLE FOR SUPPORTING THE PROPOSED RESTROOM/PAVILION CONSTRUCTION ON CONVENTIONAL SHALLOW FOUNDATIONS (OR MONOLITHIC, THICKENED-EDGE CONCRETE SLABS) PROPORTIONED FOR AN ALLOWABLE BEARING STRESS OF 2,000 POUNDS PER SQUARE FOOT [PSF], OR LESS.

TO PROVIDE AN ADEQUATE FACTOR OF SAFETY AGAINST A SHEARING FAILURE IN THE SUBSOILS, ALL CONTINUOUS FOUNDATIONS (OR THICKENED EDGES) SHOULD BE AT LEAST 16 INCHES WIDE, AND ALL INDIVIDUAL COLUMN FOOTINGS (IF ANY) SHOULD HAVE A MINIMUM WIDTH OF 24 INCHES. EXTERIOR FOUNDATIONS SHOULD BEAR AT LEAST 16 INCHES BELOW ADJACENT OUTSIDE FINAL GRADES.

BASED UPON THE BORING INFORMATION AND THE ASSUMED LOADING CONDITIONS, WE ESTIMATE THAT THE RECOMMENDED ALLOWABLE BEARING STRESS WILL PROVIDE A MINIMUM FACTOR OF SAFETY IN EXCESS OF TWO AGAINST BEARING CAPACITY FAILURE, WITH THE SITE PREPARED AND THE FOUNDATIONS DESIGNED AND CONSTRUCTED AS RECOMMENDED, WE ANTICIPATE TOTAL SETTLEMENTS OF ONE INCH OR LESS, AND DIFFERENTIAL SETTLEMENT BETWEEN ADJACENT SIMILARLY LOADED FOOTINGS OF LESS THAN ONE-QUARTER OF AN INCH. BECAUSE OF THE GRANULAR NATURE OF THE SUBSURFACE SOILS, THE MAJORITY OF THE SETTLEMENTS SHOULD OCCUR DURING CONSTRUCTION; POST-CONSTRUCTION SETTLEMENT SHOULD BE MINIMAL.

AFTER THE GROUND SURFACE IS PROOFROLLED AND FILLED, IF NECESSARY, AS RECOMMENDED IN THIS REPORT, THE FLOOR SLAB CAN BE PLACED DIRECTLY ON THE PREPARED SUBGRADE. FOR DESIGN PURPOSES, WE RECOMMEND USING A SUBGRADE REACTION MODULUS OF 150 POUNDS PER CUBIC INCH (PCI) FOR THE COMPACTED SHALLOW SANDS. IN OUR OPINION, A HIGHLY POROUS BASE MATERIAL IS NOT NECESSARY. WE RECOMMEND TO USE A MINIMUM OF 10 MIL POLYOLEFIN FILM AS THE MAIN COMPONENT OF A VAPOR BARRIER SYSTEM.

AFTER CLEARING AND PROOFROLLING THE SITE SURFACE AS PREVIOUSLY RECOMMENDED, THE SURFICIAL SOILS SHOULD BE SUITABLE TO SUPPORT THE PROPOSED CONCRETE-PAVEMENT WALKING TRAIL PAVEMENT SECTION. THE SUBGRADE MATERIAL SHOULD BE COMPACTED TO A DRY DENSITY OF 98 PERCENT OF THE MODIFIED PROCTOR (ASTM D1557 OR AASHTO T-99) MAXIMUM DRY DENSITY OF THE COMPACTED SOIL TO A DEPTH OF TWO FEET BELOW THE SURFACE. THE SUBGRADE SURFACE SHOULD BE SATURATED IMMEDIATELY PRIOR TO CONCRETE PLACEMENT TO PROVIDE ADEQUATE MOISTURE FOR CURING OF THE CONCRETE.

WE RECOMMEND A FOUR-INCH THICK PAVEMENT SECTION OF PORTLAND CEMENT CONCRETE. THE CONCRETE SHOULD HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI. CONSTRUCTION CONTROL JOINTS SHOULD BE PLACED NO MORE THAN 15 FEET APART IN EITHER DIRECTION AND SHOULD BE AT LEAST ONE-QUARTER OF THE THICKNESS OF THE CONCRETE. THEY SHOULD BE CUT AS SOON AS THE CONCRETE WILL SUPPORT THE CREW AND EQUIPMENT (8 TO 12 HOURS). THE CONCRETE SHOULD BE CURED BY MOIST CURING OR BY APPLICATION OF A LIQUID CURING COMPOUND. THE STEEL REINFORCEMENT WITHIN THE CONCRETE PAVEMENT SHOULD BE DESIGNED BY THE PROJECT CIVIL OR STRUCTURAL ENGINEER.

NOTE: THIS PLAN HAS BEEN MODIFIED PER SHEET 2

OVERALL LAYOUT SITE PLAN

UTILIZE ONLY FOR GEOTECH DATA



Source: Excerpt from Conceptual Site Plan (by Mike Flaugh Landscape Architect)



ANDERSEN ANDRE CONSULTING ENGINEERS, INC.

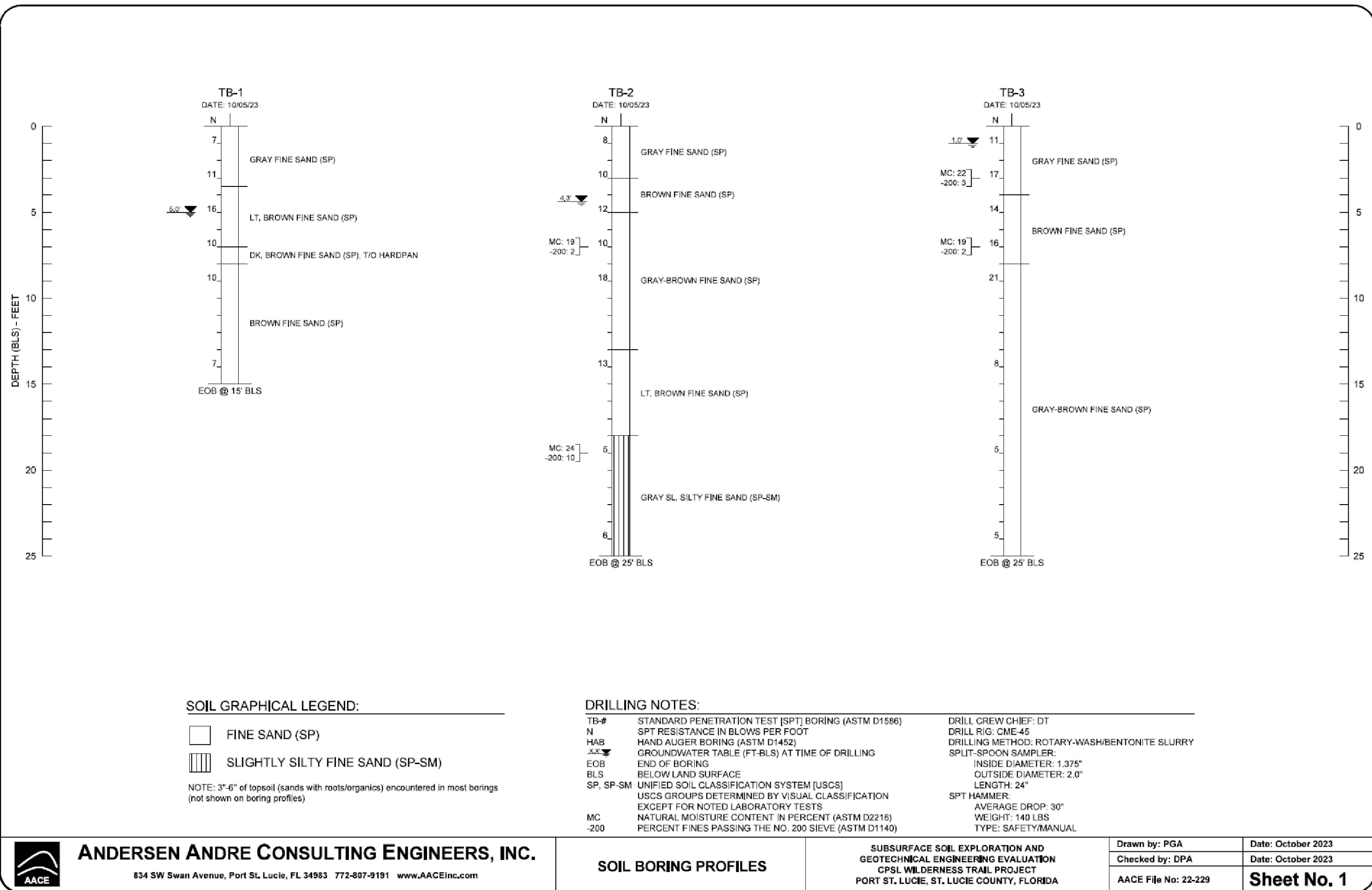
834 SW Swan Avenue, Port St. Lucie, FL 34983 772-807-9191 www.AACEinc.com

FIELD WORK LOCATION PLAN

SUBSURFACE SOIL EXPLORATION AND
GEOTECHNICAL ENGINEERING EVALUATION
CPSL WILDERNESS TRAIL PROJECT
PORT ST. LUCIE, ST. LUCIE COUNTY, FLORIDA

Drawn by: PGA
Checked by: DPA
AACE File No: 22-229

Date: October 2023
Date: October 2023
Figure No. 2



ANDERSEN ANDRE CONSULTING ENGINEERS, INC.

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SOIL BORING PROFILES

SUBSURFACE SOIL EXPLORATION AND
GEOTECHNICAL ENGINEERING EVALUATION
CPSL WILDERNESS TRAIL PROJECT
PORT ST. LUCIE, ST. LUCIE COUNTY, FLORIDA

Drawn by: PGA
Checked by: DPA
AACE File No: 22-229

Date: October 2023
Date: October 2023
Sheet No. 1

CPSLUSD UTILITY FILE #5001-23A

P25-021

SCALE
VERIFICATION
1
SOLID BAR IS EQUAL
TO ORIGINAL DRAWING
ADJUST ALL SCALED
DIMENSIONS
ACCORDINGLY

WILDERNESS TRAIL
MULTI-USE PATH
PORT ST. LUCIE
GENERAL NOTES

JOSEPH W. CAPRA
301 N.W. Flagler Ave.
Stuart, Florida 34994
P.E. No. 37638

Printed Date:

JOB No. 1813.18.1
SHEET
4 OF 22

THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. RELIANCE ON AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADOPTION BY CAPTEC ENGINEERING, INC. SHALL BE WITHOUT LIABILITY TO CAPTEC ENGINEERING, INC.

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CAPTEC Engineering, Inc.
Civil Engineering Professionals
Engineering Business
No. EB-007657

DATE: 07/03/2025
DRAWN BY: JFC
DESIGNED BY: CS
CHECKED BY: JWC
PROJECT No.: 1813.18.1
HORIZ. SCALE: N/A
VERT. SCALE: N/A
CADD FILE: 1813.18.1.dwg

NO.	DATE	BY	REVISIONS
1	07/03/2025	JFC	100% BID SET

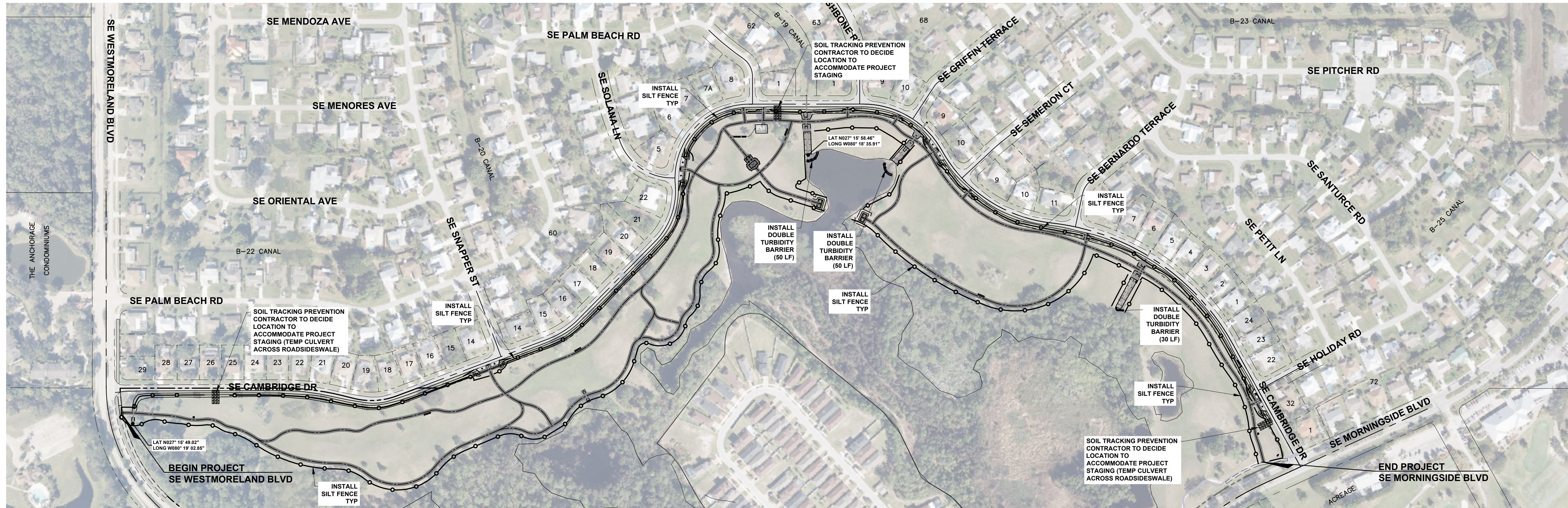
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VERIFICATION
1
SOLID BAR IS EQUAL
TO ORIGINAL DRAWING
ADJUST ALL SCALED
DIMENSIONS
ACCORDINGLY

WILDERNESS TRAIL
MULTI-USE PATH
PORT ST. LUCIE
GENERAL NOTES

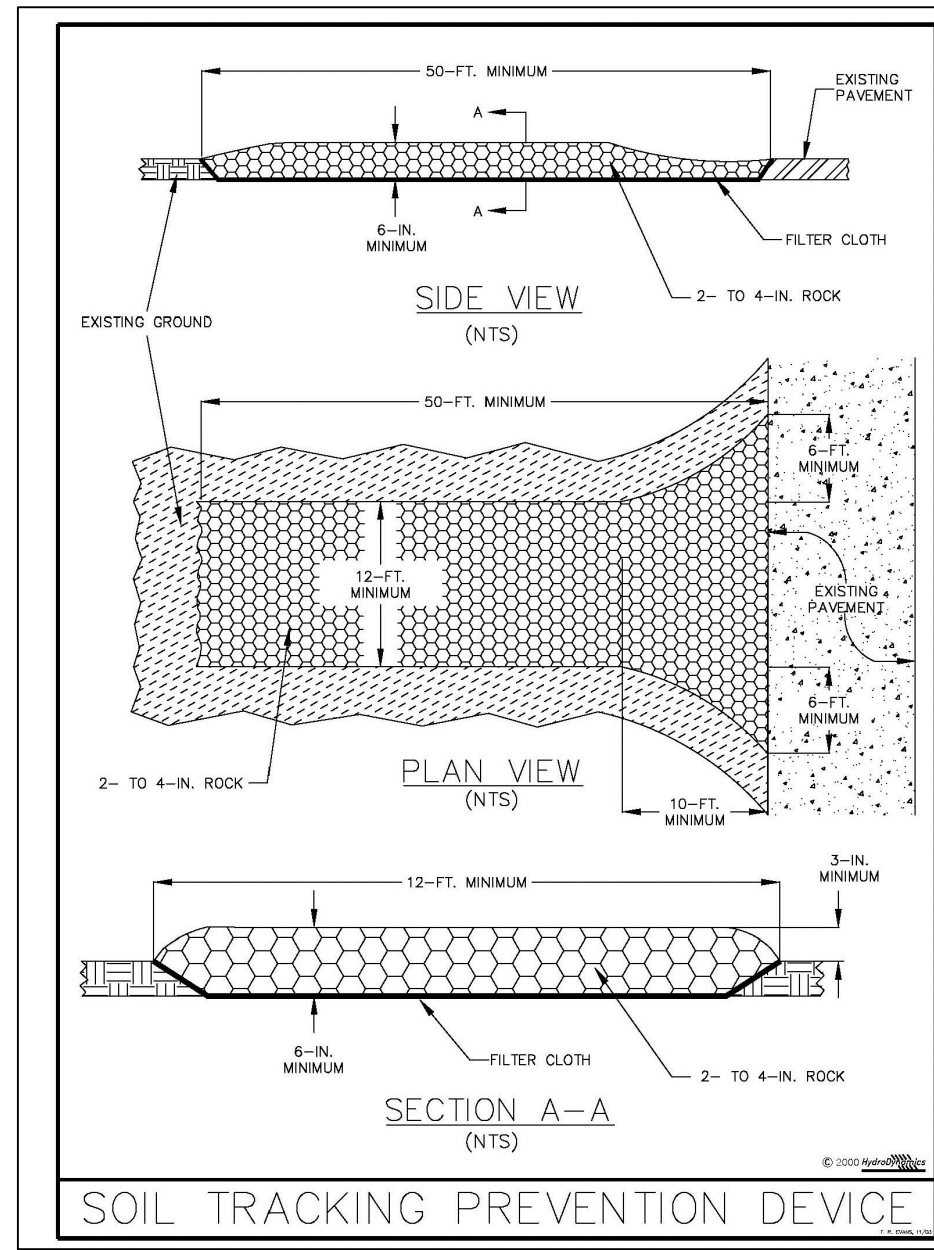
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Printed Date:

JOB No. 1813.18.1
SHEET
4 OF 22



1	Project Name and location information:	WILDERNESS TRAIL MULTI USE PATH LOCATED AT 288 SE WESTMORELAND BLVD AND IN PORT ST. LUCIE, ST. LUCIE COUNTY, FLORIDA (PARCEL ID: 441-701-001-000) 7. SECTIONS 11 & 14, TOWNSHIP 37 SOUTH, RANGE 40 EAST.
2	Describe the nature of the construction activity:	IF WHEN CONCRETE WITH MEDIAL SUBWALK TRAIL WITH CULVERT CROSSINGS, ON-STREET PARKING, LITTORAL MEDIAN, BIOWALKS, AND RESTROOM
3	Describe the intended sequence of major soil disturbing activities:	1. PLACEMENT OF ALL EROSION CONTROL DEVICES. 2. DEMOLITION AND REMOVAL OF EXISTING CULVERTS. 3. INSTALL CULVERTS 4. CONSTRUCTION OF TRAIL AND SOD ALL WORK AREA. 5. REMOVAL OF EROSION CONTROL DEVICES AND TURBIDITY BARRIERS.
4	Total area of the site:	56.44 ± ACRES
5	Total area of the site to be disturbed:	3.80 ± ACRES
6	Existing data describing the soil or quality of any stormwater discharge from the site:	THE SUBSURFACE SOIL EXPLORATION AND GEOCHEMICAL ENGINEERING EVALUATION REPORT BY ANDERSEN ANDRE CONSULTING ENGINEERS, INC.
7	Estimate the drainage area size for each discharge point:	N/A
8	Latitude and longitude of each discharge point and identify the receiving water or MS4 for each discharge point:	LAT N027° 15' 49.02" LONG W080° 19' 02.85" LAT N027° 15' 58.46" LONG W080° 18' 35.91"
9	Give a detailed description of all controls, Best Management Practices (BMPs) and measures that will be implemented at the construction site for each activity identified in the intended sequence of major soil disturbing activities section. Provide time frames in which the controls will be implemented. NOTE: All controls shall be consistent with performance standards for erosion and sediment control and stormwater treatment set forth in s. 62-40.432, F.A.C., the applicable Stormwater or Environmental Resource Permitting requirements of the Department or a Water Management District, and the guidelines contained in the State of Florida Erosion and Sediment Control Designer and Reviewer Manual, FDOT, FDEP, and any subsequent amendments.	THE FOLLOWING DEFINES GENERAL QUANTITIES FOR THE SEQUENCE OF CONSTRUCTION AND THE USE OF STABILIZATION AND STRUCTURAL PRACTICES. THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP. THE CONSTRUCTION OF THIS PROJECT IS EXPECTED TO LAST SIX MONTHS. INSTALL STABILIZED CONSTRUCTION ENTRANCE AT ALL COMMON AREAS WHERE CONSTRUCTION TRUCKS WILL BE ENTERING AND EXITING THE CONSTRUCTION SITE. INSTALL SILT FENCE, TYPE III, AROUND ALL DITCH BOTTOM INLETS ON THE PROJECT, AND THE PROJECT PERIMETER. FILTER CLOTH UNDER THE GRATES ON CATCH BASINS MAY BE USED IN LIEU OF SILT FENCE. Describe all temporary and permanent stabilization practices. Stabilization practices include temporary seeding, mulching, permanent seeding, geotextiles, soil stabilization, vegetative buffer strips, protection of trees, vegetative preservations, etc.
10	Describe all temporary and permanent stabilization practices. Stabilization practices include temporary seeding, mulching, permanent seeding, geotextiles, soil stabilization, vegetative buffer strips, protection of trees, vegetative preservations, etc.	TEMPORARY SOD IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 104. PERMANENT ALL STABILIZATION PRACTICES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARY OR PERMANENTLY CHANGED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITIES IN THAT PORTION OF THE SITE HAS TEMPORARILY CEASED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP.
11	Describe all structural controls to be implemented to divert stormwater flow from exposed soils and structural practices to store flows, retain sediment on-site or in any other way limit stormwater runoff. These controls include silt fences, earth dikes, diversions, swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, coagulating agents and temporary or permanent sediment basins.	Describe all structural controls to be implemented to divert stormwater flow from exposed soils and structural practices to store flows, retain sediment on-site or in any other way limit stormwater runoff. These controls include silt fences, earth dikes, diversions, swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, coagulating agents and temporary or permanent sediment basins. TEMPORARY SILT FENCE PER DETAIL STAKED TURBIDITY BARRIER PER DETAIL SOIL TRACKING PREVENTION DEVICE PER DETAIL, A STABILIZED CONSTRUCTION ENTRANCE TO BE CONSTRUCTED PER DETAIL. ALL SEDIMENT CONTROLS SHALL BE IN PLACE PRIOR TO ANY SOIL DISTURBING ACTIVITY UPSTREAM OF THE CONTROL. TEMPORARY BURNS TO BE INSTALLED DURING CONSTRUCTION TO PROTECT THE NORTH FORK ST. LUCIE RIVER.
12	Describe all sediment basins to be implemented for areas that will disturb 10 or more acres at one time. The sediment basins (or an equivalent alternative) should be able to provide 3,600 cubic feet of storage for each acre drained. Temporary sediment basins (or an equivalent alternative) are recommended for drainage areas under 10 acres.	N/A
13	Describe all permanent stormwater management controls such as, but not limited to, detention or retention systems or vegetated swales that will be installed during the construction process.	N/A



7.1 General GEOTECHNICAL RECOMMENDATION

Based on the findings of our site exploration, our evaluation of subsurface conditions, and judgment based on our experience with similar projects, we conclude that the soils underlying this site are generally satisfactory to support the proposed lightly-loaded structure (restroom/pavilion building) on conventional spread foundations or monolithic (thickened-edge) concrete slabs. Similarly, the proposed multi-use trail and boardwalk can be supported on the encountered soils. However, in our opinion, the bearing capacity of the loose near-surface soils should be improved in order to reduce the risk of unsatisfactory foundation and pavement performance. The general soil improvement we recommend includes preloading the building site and trail alignment site with a heavy vibratory roller.

Following are specific recommendations for site preparation procedures, foundation design, and pavement systems for the project features.

7.2 Proposed Restroom/Pavilion and Multi-Use Trail

The site surface should be cleared, grubbed and stripped of all vegetation, topsoil, trash and debris. Stumps (if any) should be removed entirely and their excavations backfilled with clean granular soils placed in 6-12 inch lifts, and with each lift compacted to a dry density not less than 95 percent of the modified Proctor (ASTM D1557) maximum dry density of the compacted material.

Following clearing, the proposed building and pavement/trail areas should be preloaded with a 10 ton (minimum) vibratory roller; any soft, yielding soils detected should be excavated and replaced with clean, compacted backfill that conforms with the recommendations below. Sufficient passes should be made during the preloading operations to produce dry densities not less than 95 percent of the modified Proctor (ASTM D1557) maximum dry density of the compacted material to depths of 1 foot below the compacted surface, or 1 foot below the bottom of footings, whichever is lower. In any case, the building and pavement areas should receive not less than 10 overlapping passes, half of them in each of two perpendicular directions.

We recommend that the site preparation contractor closely monitor the vibrations produced during the preloading operations so that they do not adversely affect any nearby structures.

After the exposed surface has been preloaded and tested to verify that the desired dry density has been obtained, the building and pavement/trail areas may be filled to the desired grades. All fill material should conform to the recommendations below. It should be placed in uniform layers not exceeding 12 inches in loose thickness. Each layer should be compacted to a dry density not less than 95 percent of its modified Proctor (ASTM D1557) maximum value.

After completion of the general site preparations discussed above, the bottom of foundation excavations dug through the compacted natural ground; fill or backfill, should be compacted so as to densify soils loosened during or after the excavation process, or washed or sloughed into the excavation prior to the placement of forms. A vibratory, walk-behind plate compactor can be used for this final densification immediately prior to the placement of reinforcing steel, with previously described density requirements to be maintained below the foundation level.

Following removal of foundation forms, backfill around foundations should be placed in lifts six inches or less in thickness, with each lift individually compacted with a plate tamper. The backfill should be compacted to a dry density of at least 95 percent of the modified Proctor (ASTM D1557) maximum dry density. Foundation forms are recommended due to the sandy nature of the encountered soils.

All fill material under the buildings and trail should consist of clean sands free of organics and other deleterious materials. The fill material should have not more than 12 percent by dry weight passing the U.S. No. 200 sieve, and no particle larger than 3 inches in diameter.

After the foundation soils have been prepared as recommended above, the site should be suitable for supporting the proposed restroom/pavilion construction on conventional shallow foundations (or monolithic, thickened-edge concrete slabs) proportioned for an allowable bearing stress of 2,000 pounds per square foot (psf), or less.

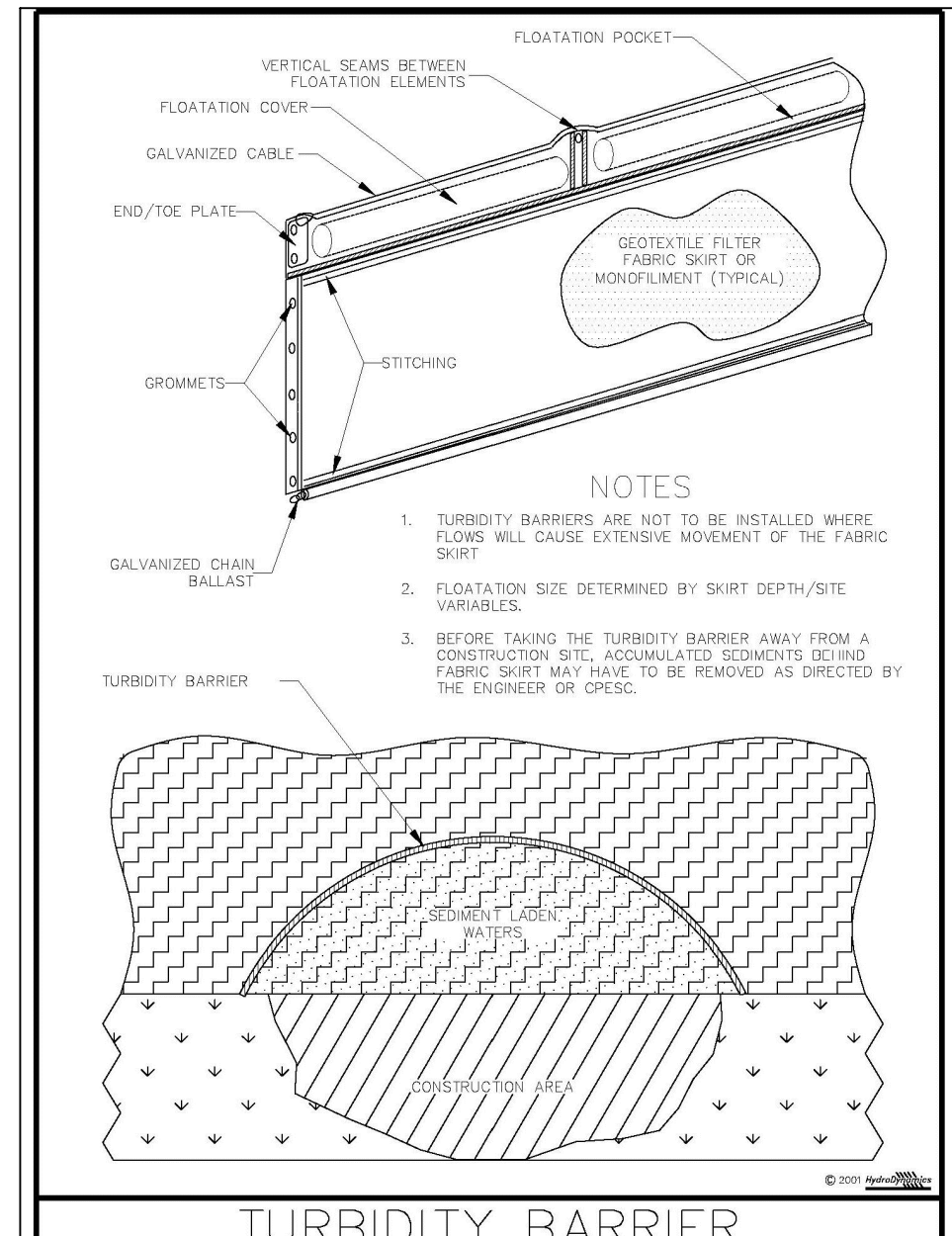
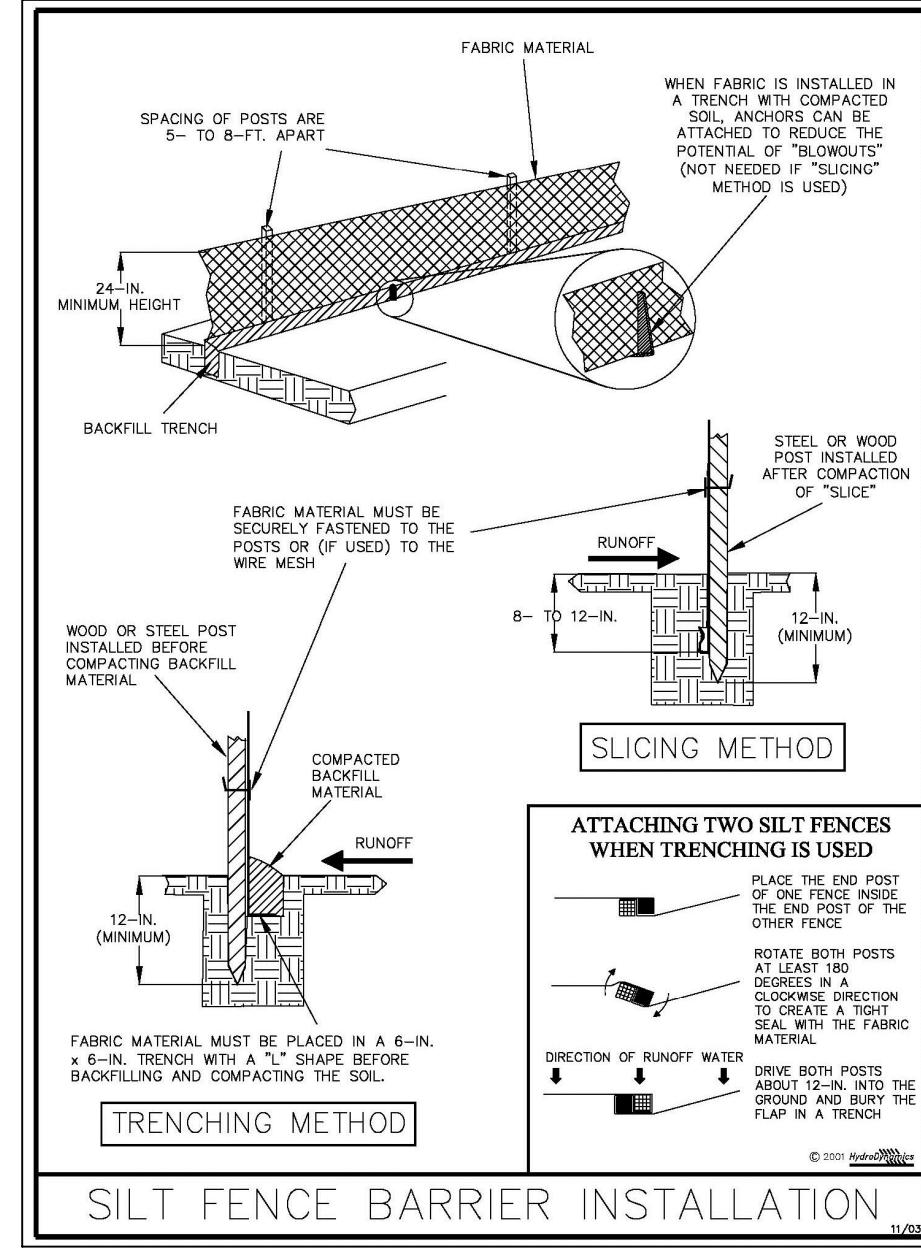
To provide an adequate factor of safety against a shearing failure in the subsols, all continuous foundations (or thickened edges) should be at least 16 inches wide, and all individual column footings (if any) should have a minimum width of 24 inches. Exterior foundations should bear at least 16 inches below adjacent outside final grades.

Based upon the boring information and the assumed loading conditions, we estimate that the recommended allowable bearing stress will provide a minimum factor of safety in excess of two against bearing capacity failure. With the site prepared and the foundations designed and constructed as recommended, we anticipate total settlements of one inch or less, and differential settlement between adjacent similarly loaded footings of less than one-quarter of an inch. Because of the granular nature of the subsurface soils, the majority of the settlements should occur during construction; post-construction settlement should be minimal.

After the ground surface is preloaded and filled, if necessary, as recommended in this report, the floor slab can be placed directly on the prepared subgrade. For design purposes, we recommend using a subgrade reaction modulus of 150 pounds per cubic inch (pci) for the compacted shallow sands. In our opinion, a highly porous base material is not necessary. We recommend to use a minimum of 10 mil polyethylene film as the main component of a vapor barrier system.

After clearing and preloading the site surface as previously recommended, the surficial soils should be suitable to support the proposed concrete-pavement walking trail pavement section. The subgrade material should be compacted to a dry density of 98 percent of the modified Proctor (ASTM D1557 or ASTM T-180) maximum dry density of the compacted soil to a depth of two feet below the surface. The subgrade surface should be saturated immediately prior to concrete placement to provide adequate moisture for curing of the concrete.

We recommend a four-inch thick pavement section of Portland cement concrete. The concrete should have a minimum 28-day compressive strength of 4,000 psi. Construction control joints should be placed no more than 15 feet apart in either direction and should be at least one-quarter of the thickness of the concrete. They should be cut as soon as the concrete will support the crew and equipment (8 to 12 hours). The concrete should be cured by moist curing or by application of a liquid curing compound. The steel reinforcement within the concrete pavement should be designed by the project civil or structural engineer.



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DATE: 07/03/2025
DRAWN BY: JFK
DESIGNED BY: CS
CHECKED BY: JWC
PROJECT NO.: 1813.18.1
HORIZ. SCALE: 1" = 200'
VERT. SCALE: N/A
CADD FILE: 181318.dwg (Civil)

NO.	DATE	BY	REVISIONS
1	07/03/2025	JFK	100% BID SET

SCALE
VERIFICATION
0 1
SOLID BAR IS EQUAL
ORIGINAL DRAWING
ADJUST ALL SCALED
DIMENSIONS
ACCORDINGLY

WILDERNESS TRAIL MULTI USE PATH PORT ST. LUCIE

EROSION CONTROL PLAN

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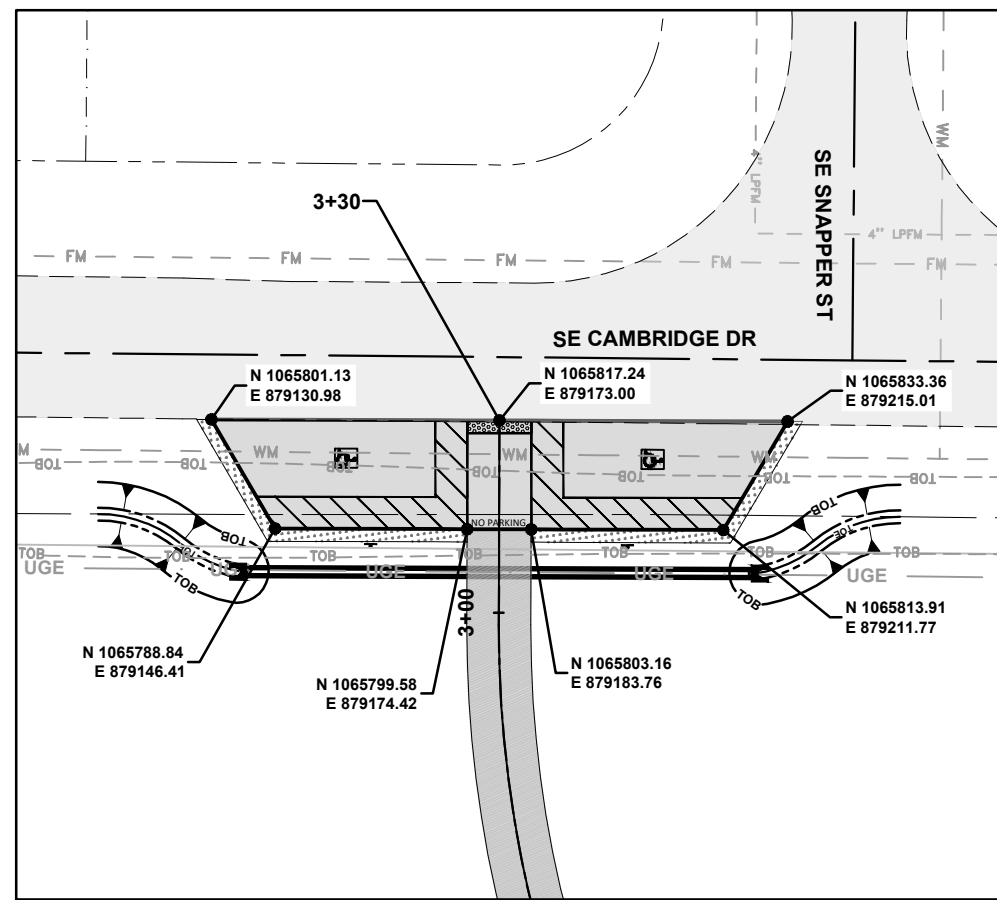
Printed Date:

JOB NO. 1813.18.1
SHEET
5 OF 22

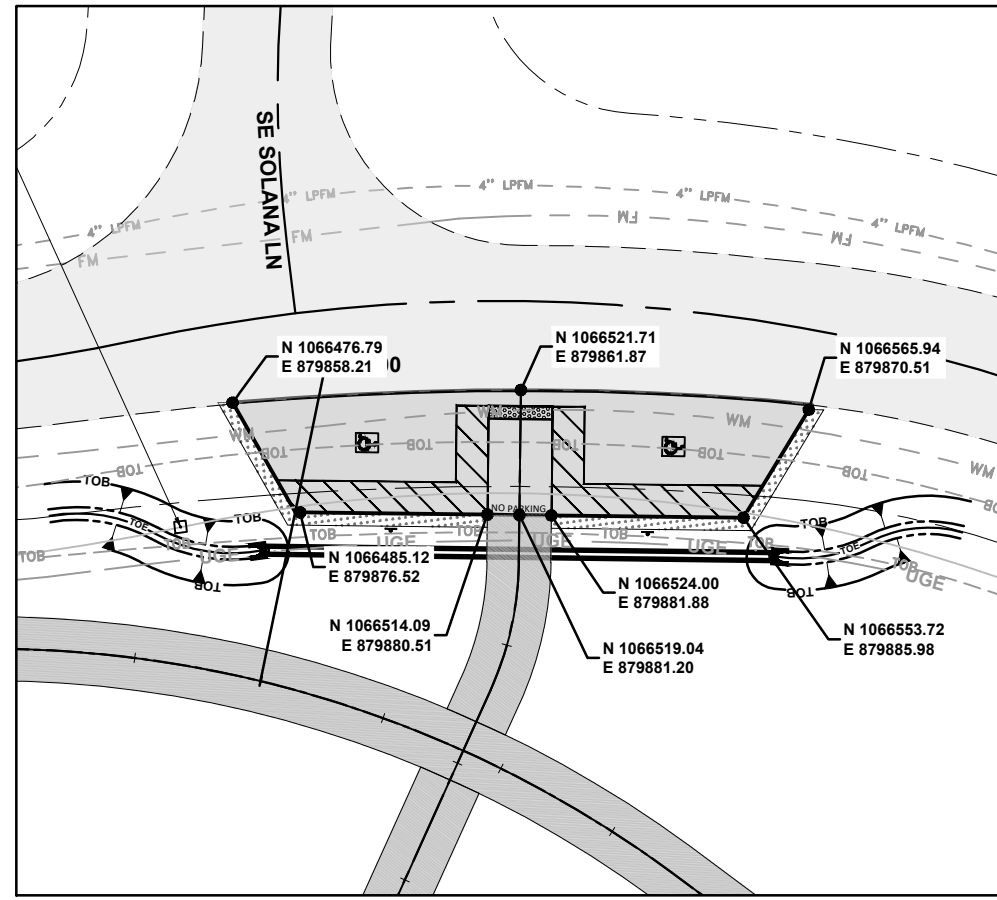
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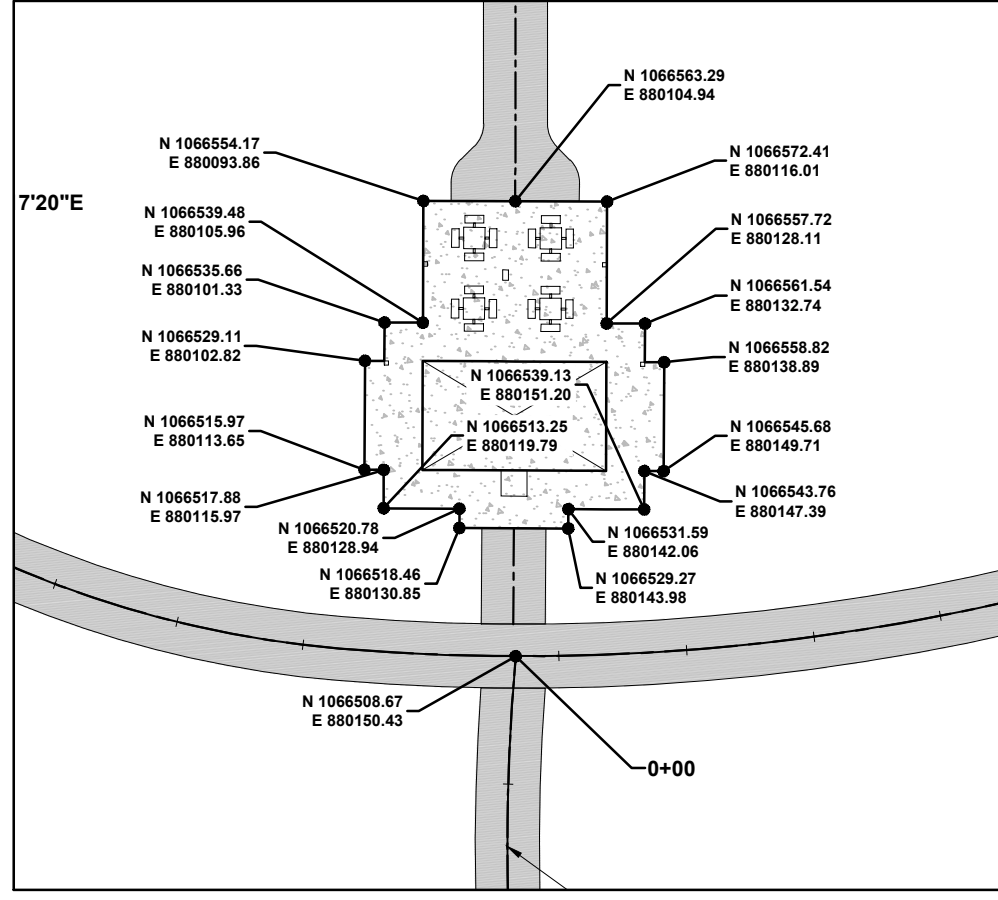




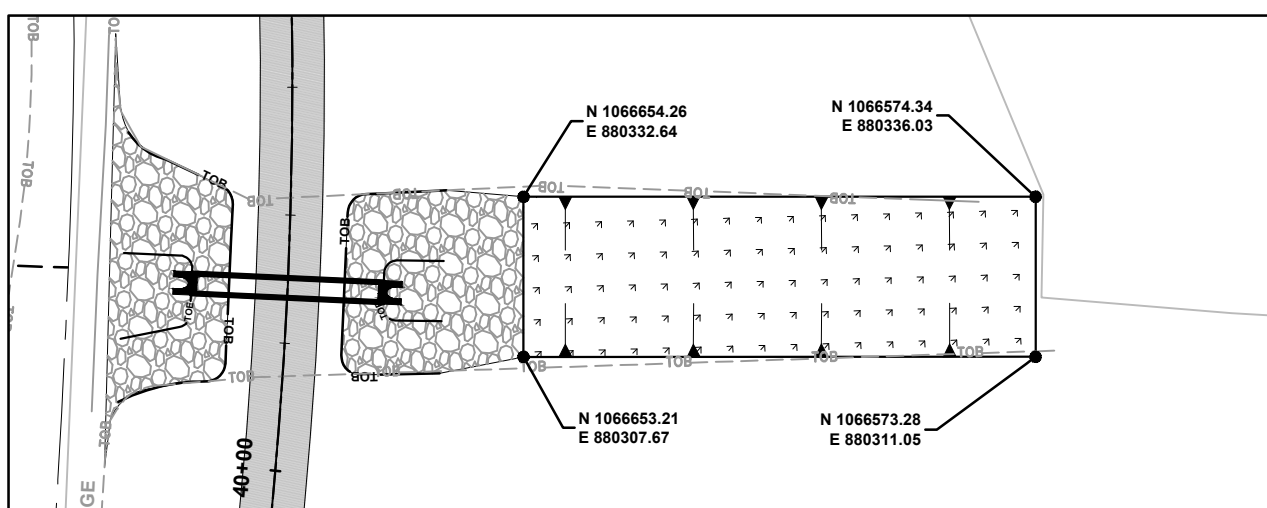
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PARKING & PATH CONNECTION
#1
SCALE: 1" = 30"



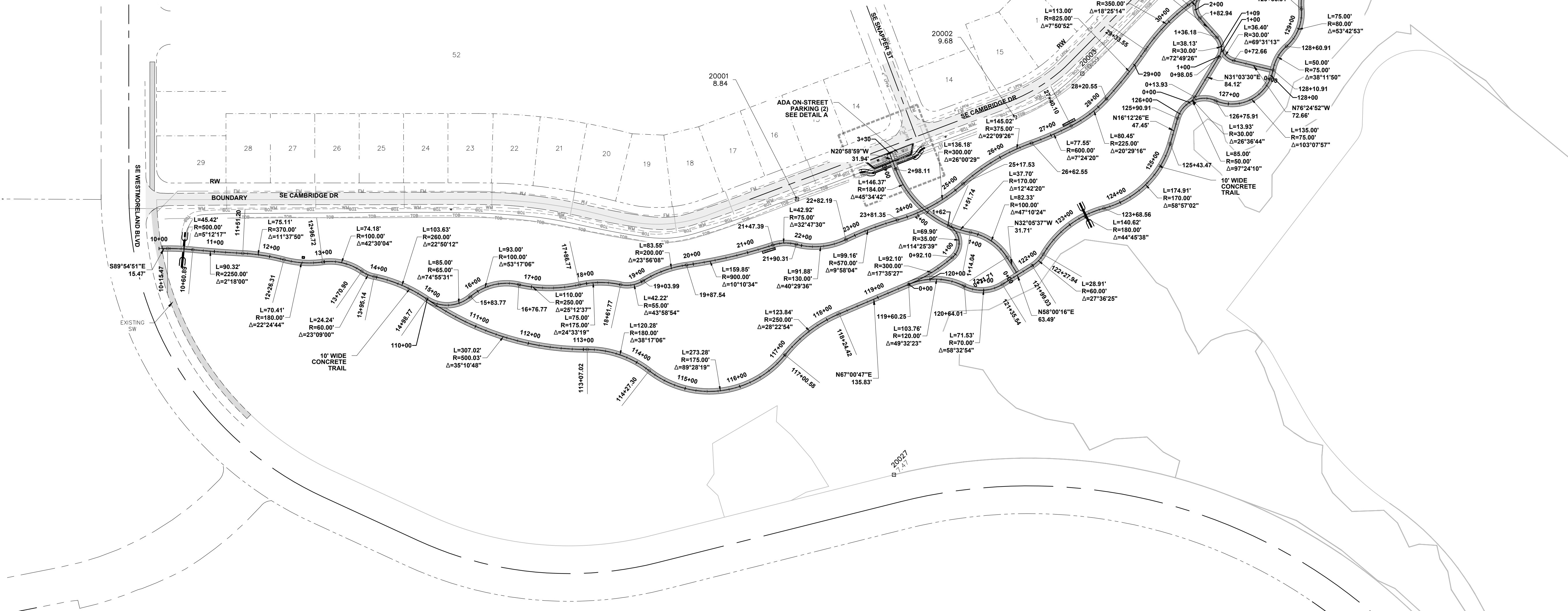
DETAIL B
ON-STREET ADA PARALLEL
PARKING & PATH CONNECTION
#2
SCALE: 1" = 30"



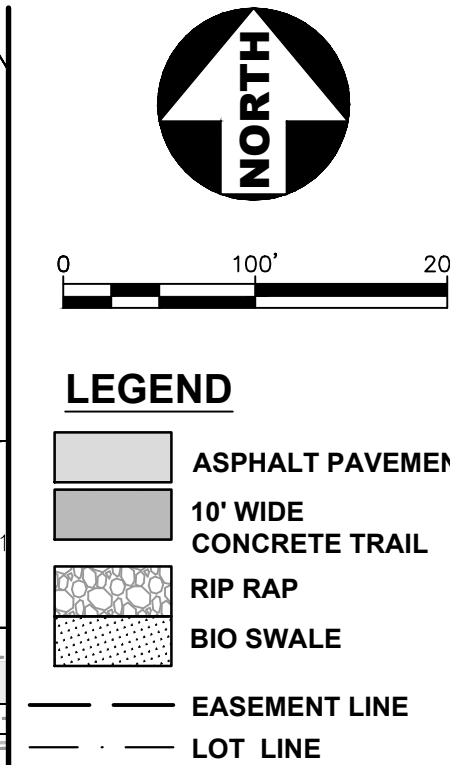
DETAIL C
RESTROOM/PAVILION
SCALE: 1" = 30"



DETAIL D
BIOSWALE #1
SCALE: 1" = 30"



SEE SHEET 8



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DATE: 07/03/2025
DRAWN BY: JFC
DESIGNED BY: CS
CHECKED BY: JWC
PROJECT NO.: 1813.18.1
HORIZ. SCALE: 1" = 100'
VERT. SCALE: N/A
CADD FILE: 1813181.dwg

NO.	DATE	BY	REVISIONS
1	07/03/2025	JFC	100% BID SET

SCALE
VERIFICATION

0 1
SOLID BAR IS EQUAL
ORIGINAL DRAWING
ADJUST ALL SCALED
DIMENSIONS
ACCORDINGLY

WILDERNESS TRAIL
MULTI USE PATH
PORT ST. LUCIE

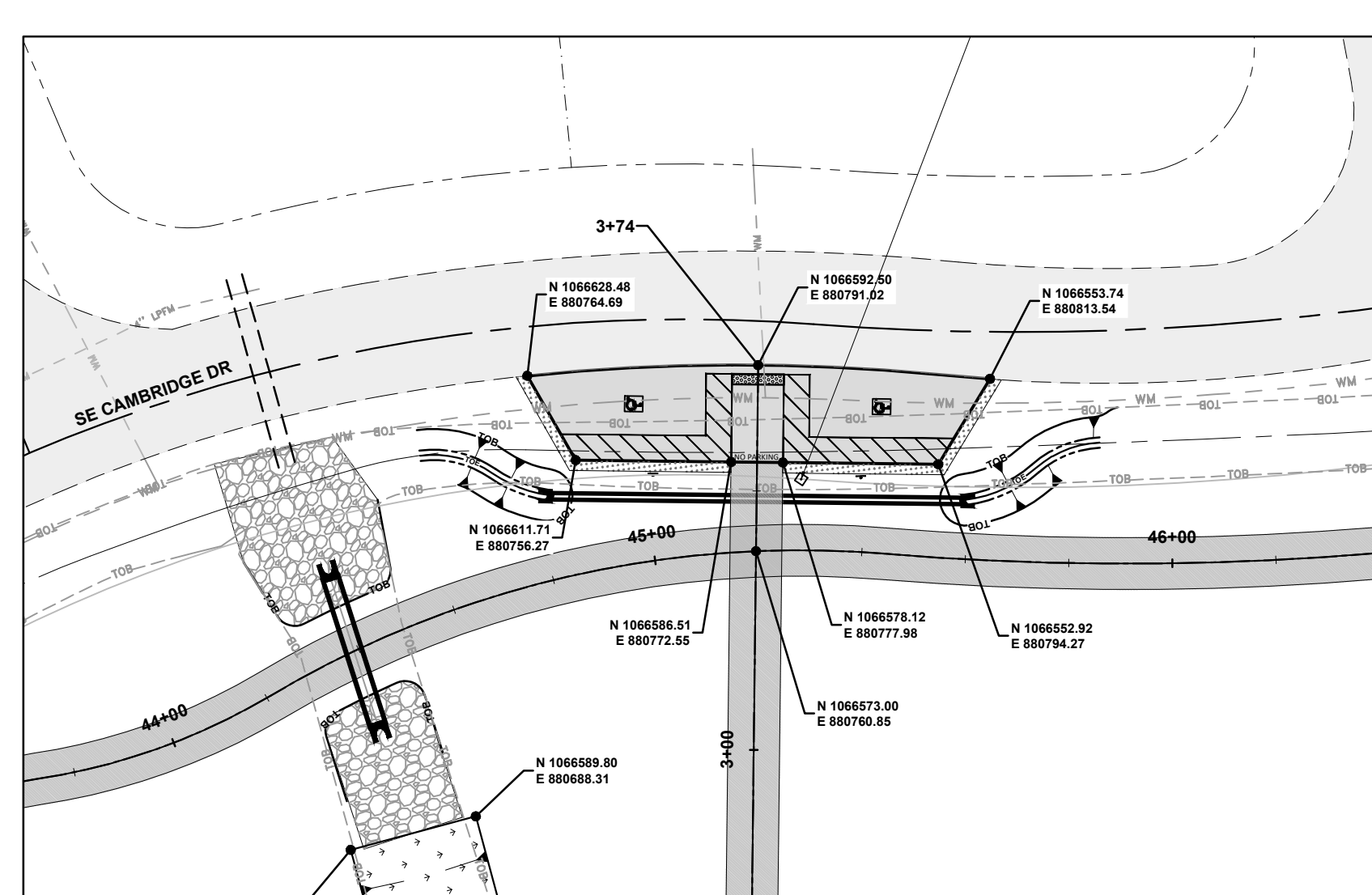
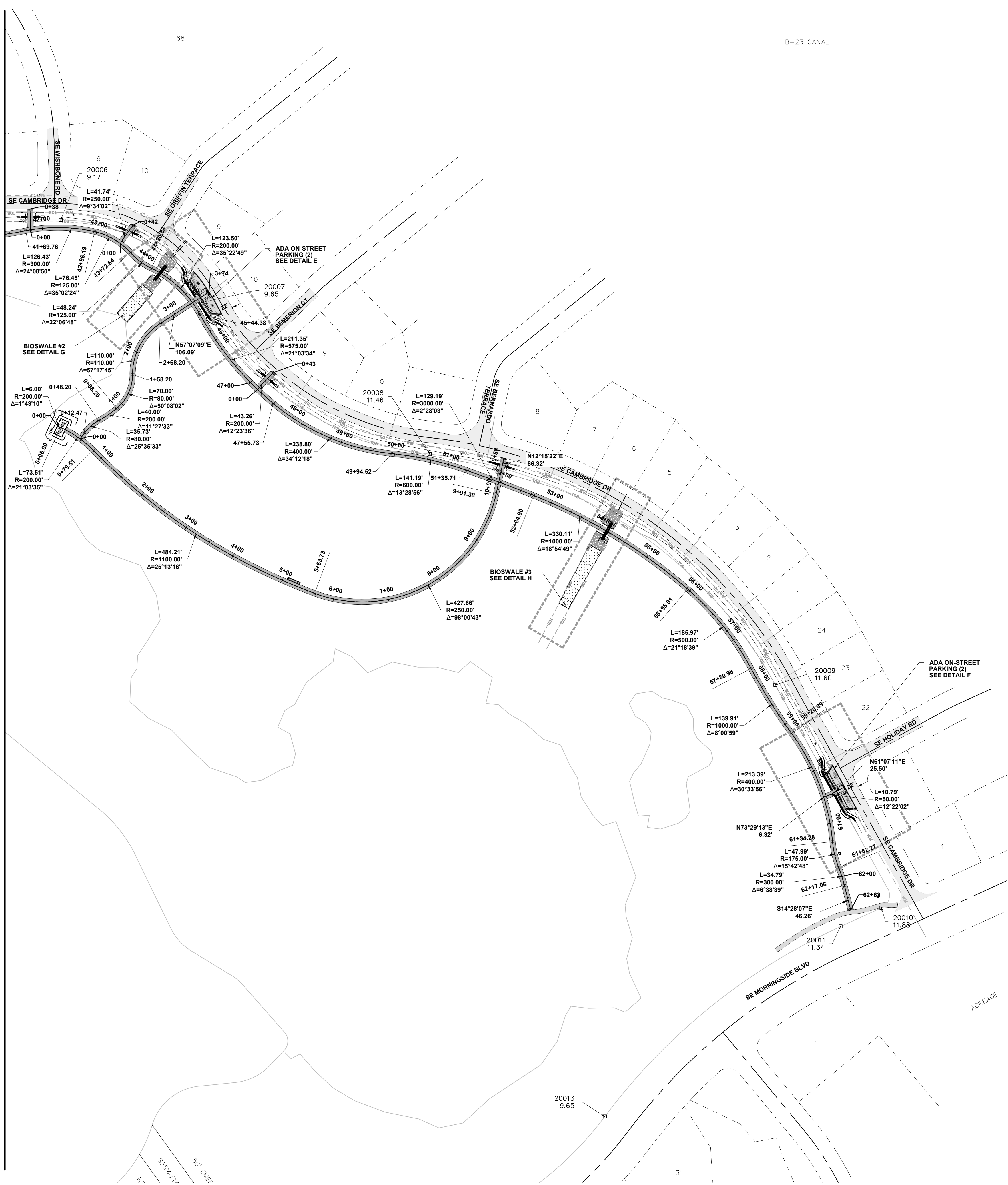
HORIZONTAL CONTROL WEST

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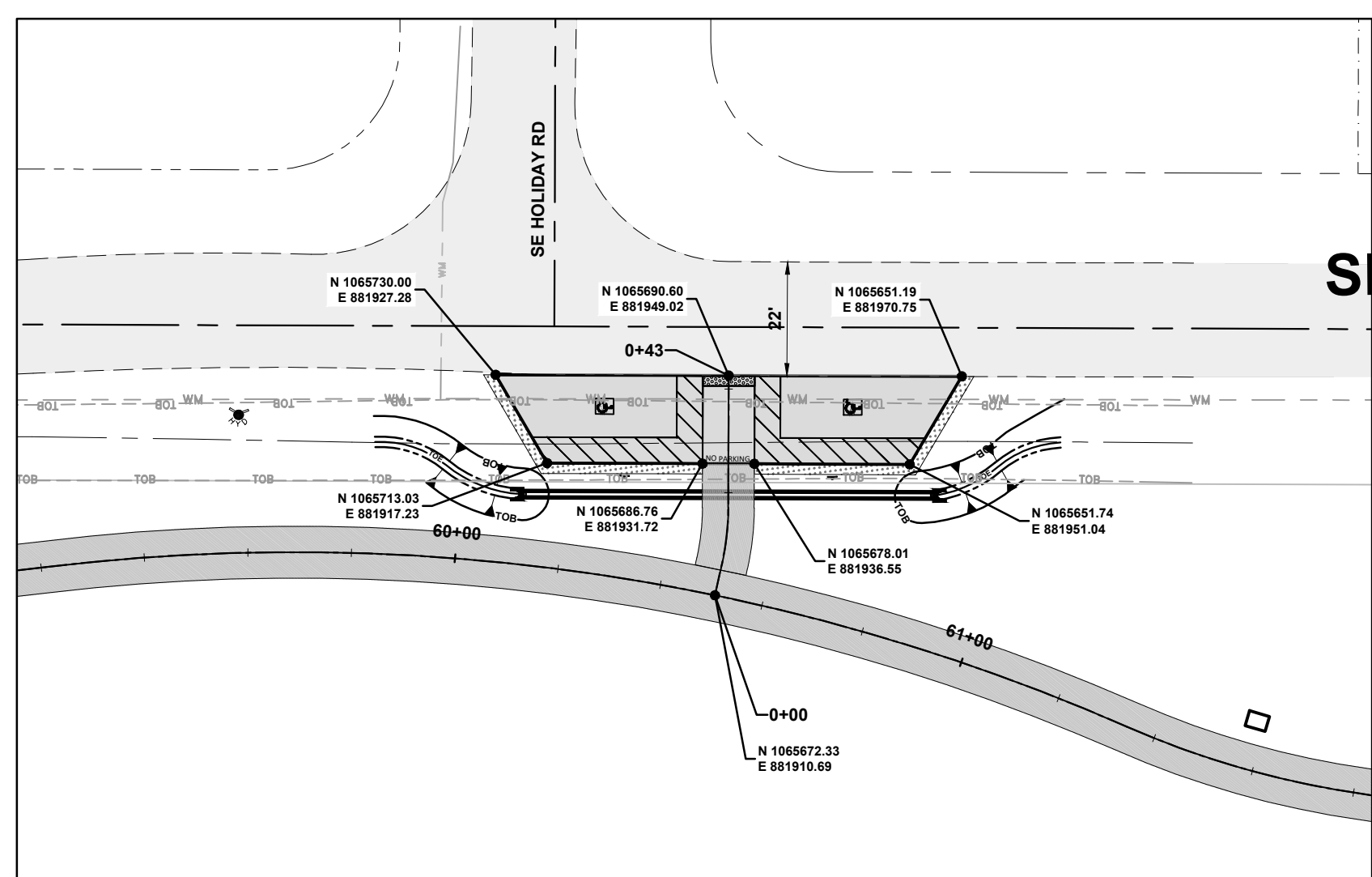
Printed Date:

JOB No. **1813.18.1**
SHEET
7 OF **22**

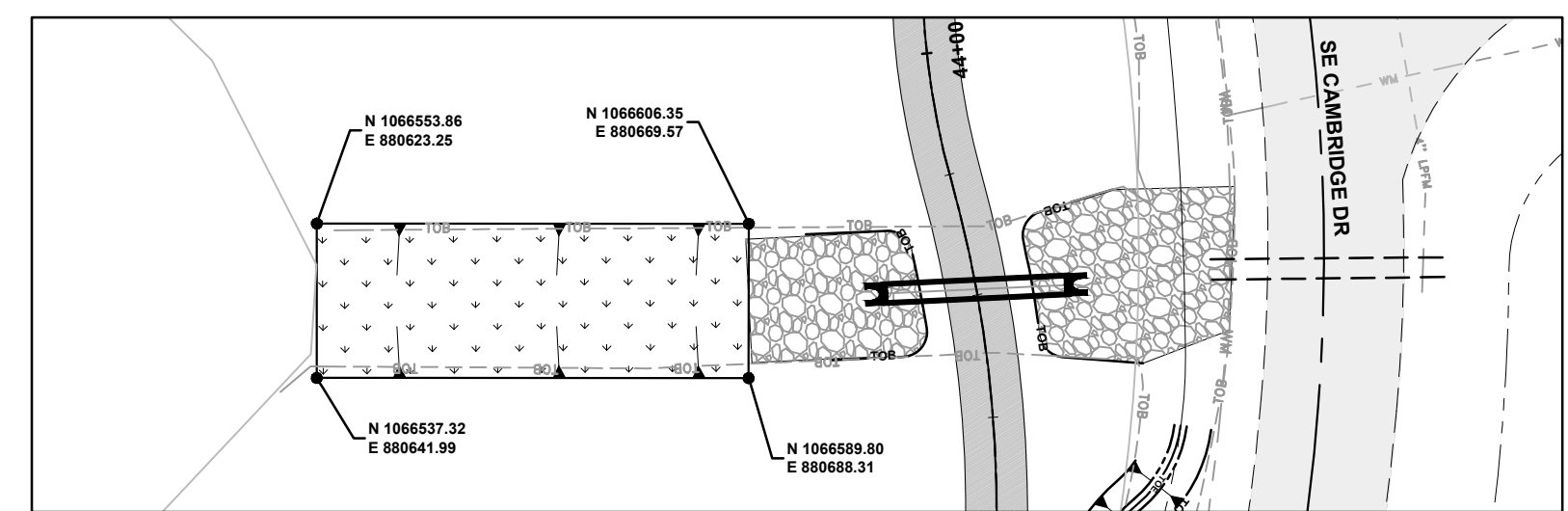
SEE SHEET 7



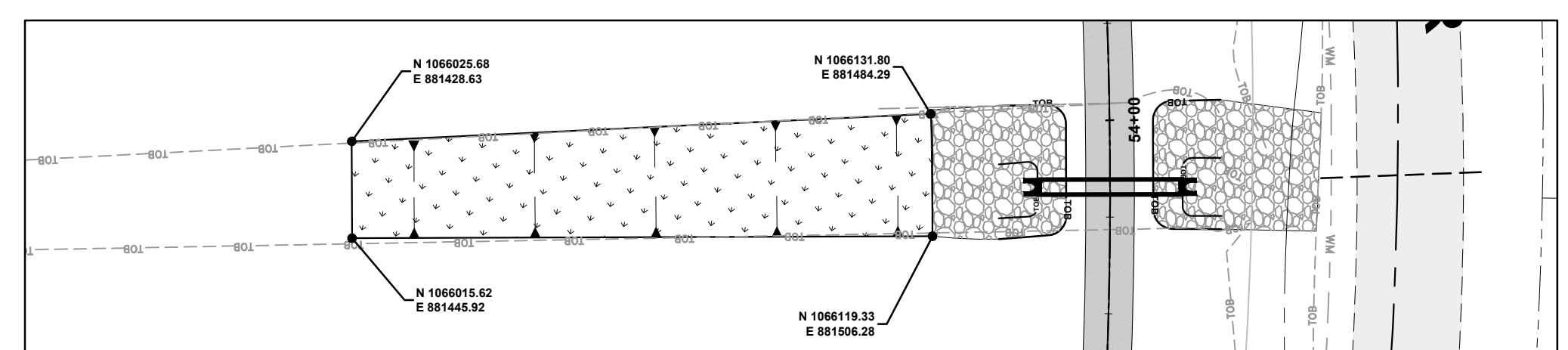
DETAIL E
ON-STREET ADA PARALLEL
PARKING & PATH CONNECTION
#3
SCALE: 1" = 30'



DETAIL F
ON-STREET ADA PARALLEL
PARKING & PATH CONNECTION
#4
SCALE: 1" = 30'



DETAIL G
BIOSWALE #2
SCALE: 1" = 30'



DETAIL H
BIOSWALE #3
SCALE: 1" = 30'

0 100' 200'

LEGEND

- ASPHALT PAVEMENT
- 10' WIDE CONCRETE TRAIL
- RIP RAP
- BIO SWALE
- EASEMENT LINE
- LOT LINE

NORTH

301 N.W. Flagler Ave.
Stuart, Florida 34994
Phone: (772) 692-4344
Fax: (772) 692-4341

CAPTEC
Engineering, Inc.
Civil Engineering Professionals

DATE: 07/03/2025
DRAWN BY: JFK
DESIGNED BY: CS
CHECKED BY: JWC
PROJECT No.: 1813.18.1
HORIZ. SCALE: 1" = 100'
VERT. SCALE: N/A
CADD FILE: 1813181.dwg

NO.	DATE	BY	REVISIONS
1	07/03/2025	JFK	100% BID SET

SCALE VERIFICATION

0 1

SOLID BAR IS EQUAL
ORIGINAL DRAWING
ADJUST ALL SCALED
DIMENSIONS
ACCORDINGLY

**WILDERNESS TRAIL
MULTI USE PATH
PORT ST. LUCIE**

HORIZONTAL CONTROL EAST

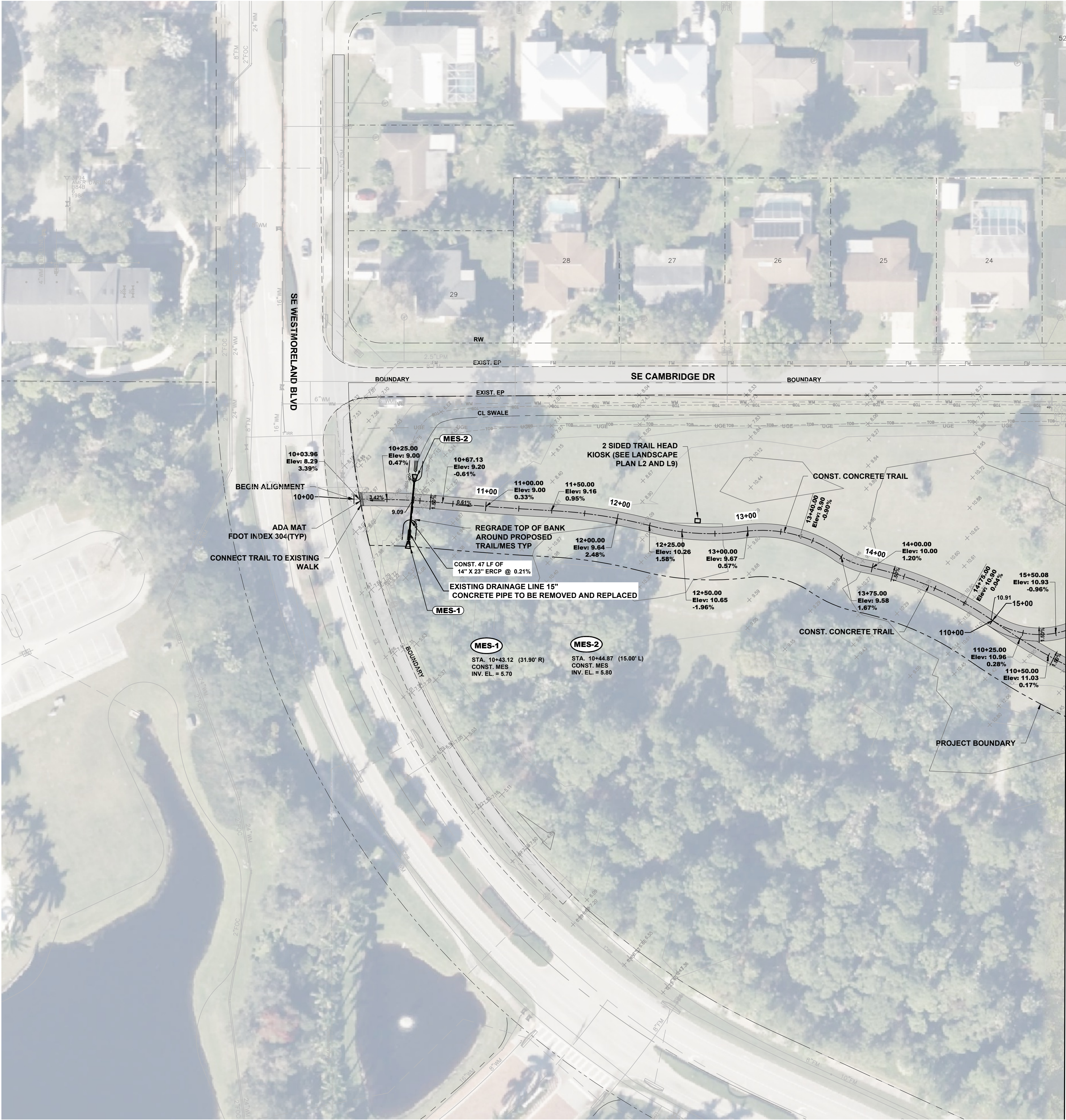
JOSEPH W. CAPRA
301 N.W. Flagler Ave.
Stuart, Florida 34994
P.E. No. 37638

Printed Date:

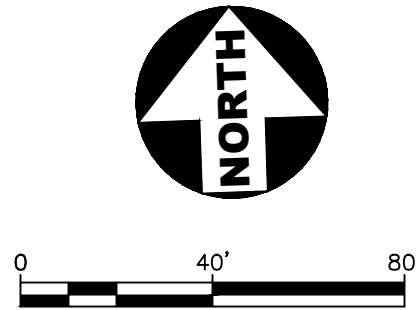
JOB No. **1813.18.1**
SHEET
8 OF **22**

CPUSLUD UTILITY FILE #5001-23A P25-021

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SEE SHEET 10



LEGEND	
	EASEMENT LINE
	LOT LINE
	PROPERTY LINE
	CENTERLINE
	CONCRETE TRAIL
	ASPHALT/PAVEMENT
	SURFACE SLOPE
	PROPOSED SURFACE GRADE ELEVATION
	EXISTING GRADE
	TOE OF BANK
	TOP OF BANK
	EXISTING TOP OF BANK
	RIP RAP
	BIO SWALE
	MITERED END STRUCT.
	HDPE STORM PIPE
	PROPOSED LPFM
	PROPOSED WATER MAIN
	POTENTIAL UTILITY CONFLICT

NOTE:
PROJECT LIES WITHIN SFWMD ERP 56-01506-P.
MINIMUM ROAD CROWN ELEVATION = 8.00 NAVD
MINIMUM BUILDING FLOOR ELEVATION = 8.50 NAVD

SCALE	VERIFICATION
0	1
SOLID BAR IS EQUAL ORIGINAL DRAWING. ADJUST ALL SCALED DIMENSIONS ACCORDINGLY.	

**WILDERNESS TRAIL
MULTI USE PATH
PORT ST. LUCIE
TRAIL IMPROVEMENT PLAN**

JOSEPH W. CAPRA
301 N.W. Flagler Ave.
Stuart, Florida 34994
P.E. No. 37638

Printed Date:

JOB No. **1813.18.1**
SHEET
9 OF **22**

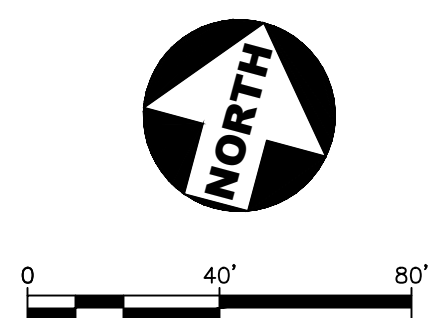
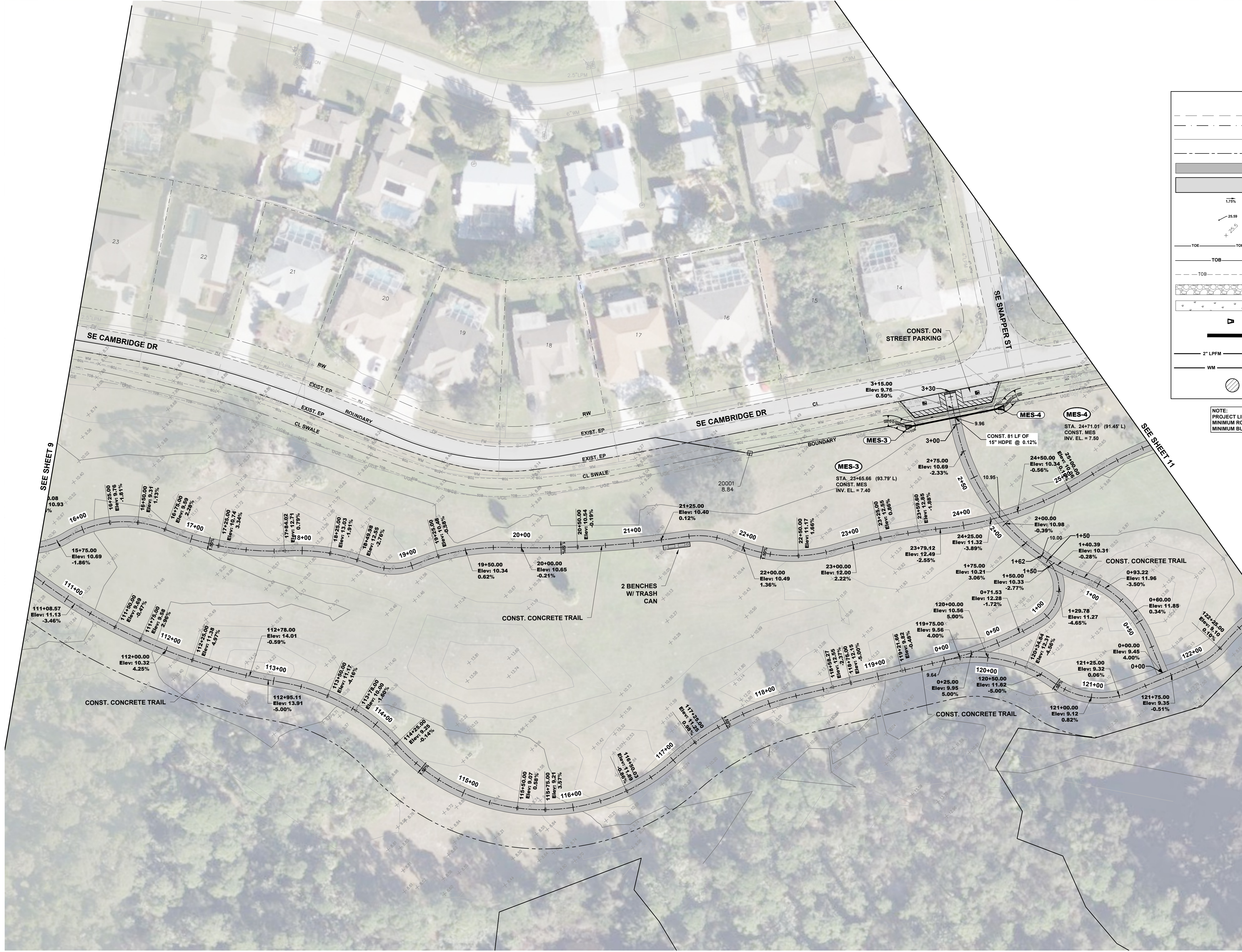
CPSLUSD UTILITY FILE #5001-23A

P25-021

301 N.W. Flagler Ave.
Stuart, Florida 34994
Phone: (772) 692-4344
Fax: (772) 692-4344
CAPTEC Engineering, Inc.
Civil Engineering Professionals
Engineering Business
No. EB-007657

DATE:	07/03/2025
DRAWN BY:	JFK
DESIGNED BY:	CS
CHECKED BY:	JWC
PROJECT No.:	1813.18.1
HORIZ. SCALE:	1" = 40'
VERT. SCALE:	N/A
CADD FILE:	1813.18.1.dwg

NO.	DATE	BY	REVISIONS
1	07/03/2025	JFK	100% BID SET



LEGEND

- EASEMENT LINE
- LOT LINE
- PROPERTY LINE
- CENTERLINE
- CONCRETE TRAIL
- ASPHALT/PAVEMENT
- SURFACE SLOPE
- PROPOSED SURFACE GRADE ELEVATION
- EXISTING GRADE
- TOE OF BANK
- TOP OF BANK
- EXISTING TOP OF BANK
- RIP RAP
- BIO SWALE
- MITERED END STRUCT.
- HDPE STORM PIPE
- PROPOSED LPPM
- PROPOSED WATER MAIN
- POTENTIAL UTILITY CONFLICT

NOTE:
PROJECT LIES WITHIN SFWMD ERP 56-01506-P.
MINIMUM ROAD CROWN ELEVATION = 8.00 NAVD
MINIMUM BUILDING FLOOR ELEVATION = 8.50 NAVD

CAPTEC Engineering, Inc.
Civil Engineering Professionals

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DATE:	07/03/2025
DRAWN BY:	JFK
DESIGNED BY:	CS
CHECKED BY:	JWC
PROJECT NO.:	1813.18.1
HORIZ. SCALE:	1" = 40'
VERT. SCALE:	N/A
CADD FILE:	1813.18.1.dwg

NO.	DATE	BY	REVISIONS
1	07/03/2025	JFK	100% BID SET

SCALE VERIFICATION

0 1

SOLID BAR IS EQUAL
ORIGINAL DRAWING
ADJUST ALL SCALED
DIMENSIONS
ACCORDINGLY

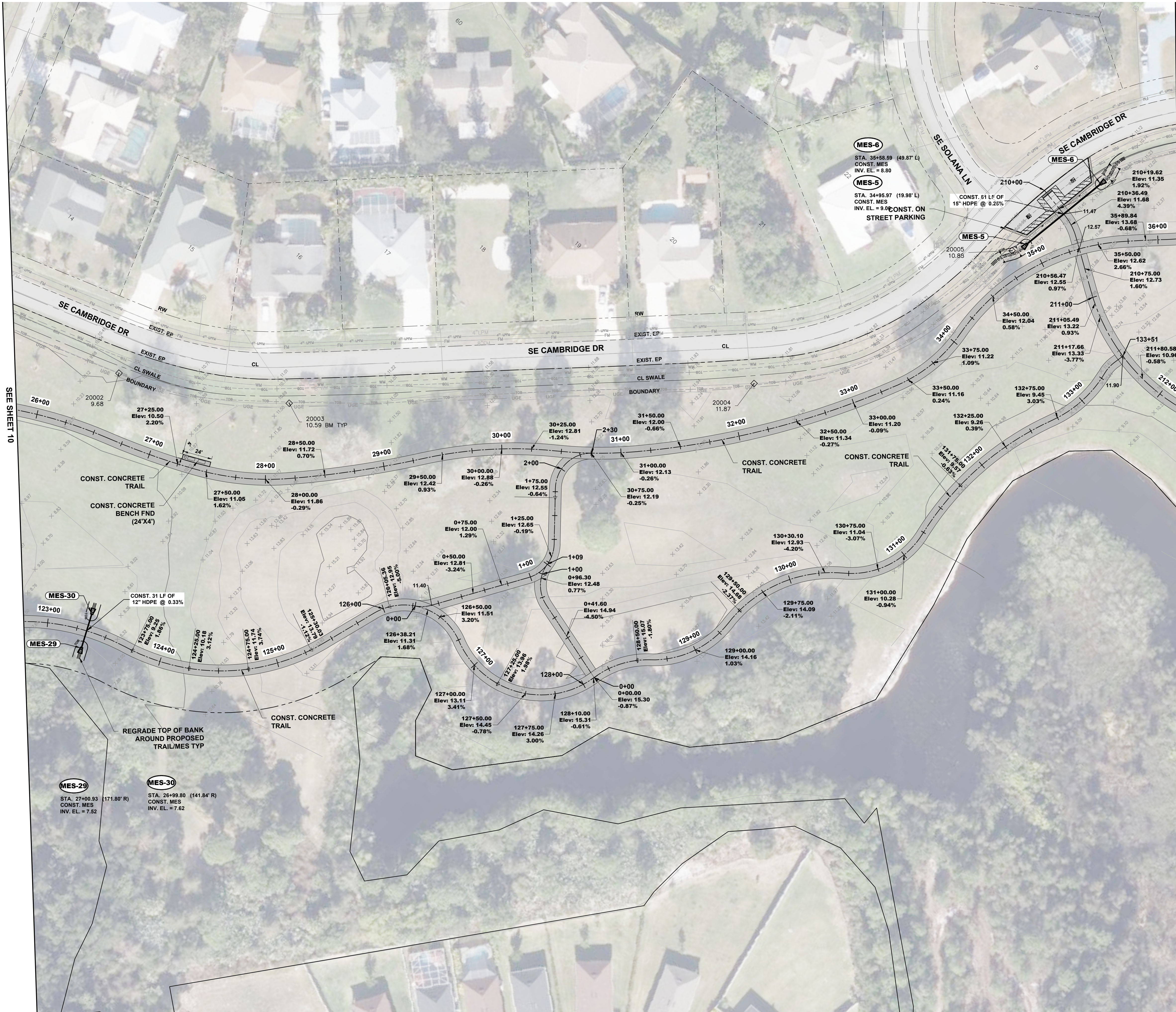
**WILDERNESS TRAIL
MULTI-USE PATH
PORT ST. LUCIE**

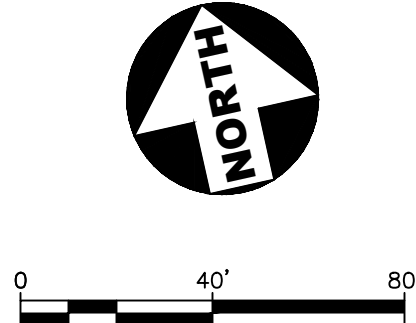
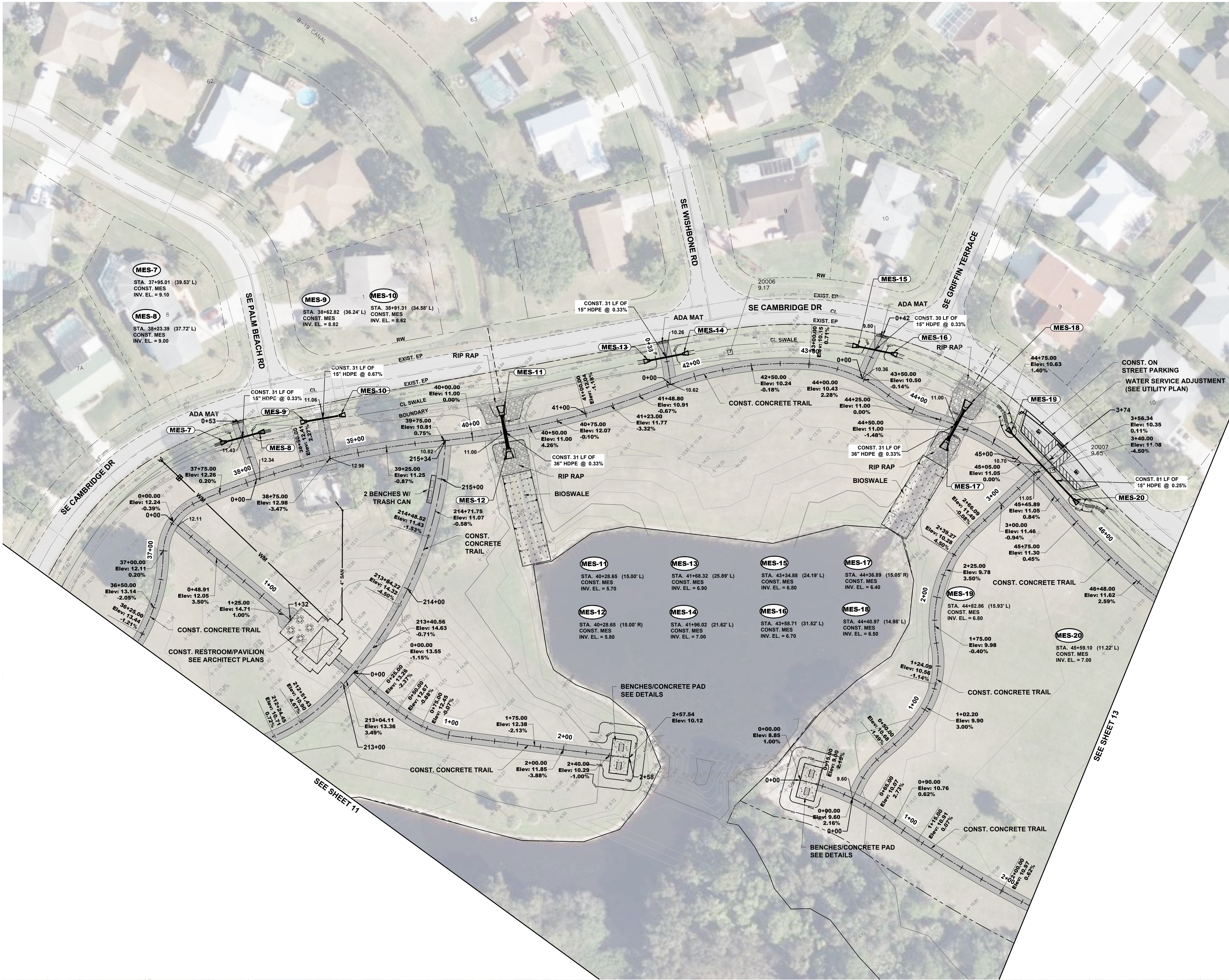
TRAIL IMPROVEMENT PLAN

JOSEPH W. CAPRA
301 N.W. Flagler Ave.
Stuart, Florida 34994
P.E. No. 37638

Printed Date:

JOB No. **1813.18.1**
SHEET
10 OF **22**





LEGEND	
	EASEMENT LINE
	LOT LINE
	PROPERTY LINE
	CENTERLINE
	CONCRETE TRAIL
	ASPHALT/PAVEMENT
	SURFACE SLOPE
	PROPOSED SURFACE GRADE ELEVATION
	EXISTING GRADE
	TOE OF BANK
	TOP OF BANK
	EXISTING TOP OF BANK
	RIP RAP
	BIO SWALE
	MITERED END STRUCT.
	HDPE STORM PIPE
	PROPOSED LPPM
	PROPOSED WATER MAIN
	POTENTIAL UTILITY CONFLICT

NOTE:
PROJECT LIES WITHIN SFWMD ERP 56-01506-P.
MINIMUM ROAD CROWN ELEVATION = 8.00 NAVD
MINIMUM BUILDING FLOOR ELEVATION = 8.50 NAVD

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CAPTEC
Engineering, Inc.
Civil Engineering Professionals

DATE:	07/03/2025
DRAWN BY:	JFK
DESIGNED BY:	CS
CHECKED BY:	JWC
PROJECT No.:	1813.18.1
HORIZ. SCALE:	1" = 40'
VERT. SCALE:	N/A
CADD FILE:	1813.18.1.dwg

REVISIONS	
NO.	DATE
1	07/03/2025

SCALE
VERIFICATION

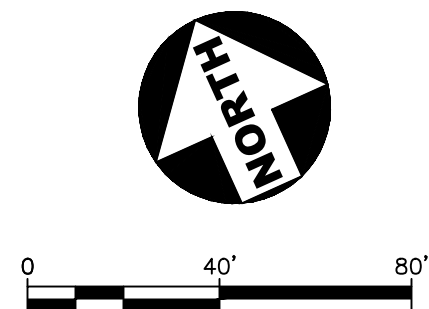
SOLID BAR IS EQUAL
ORIGINAL DRAWING
ADJUST ALL SCALED
DIMENSIONS
ACCORDINGLY

WILDERNESS TRAIL
MULTI USE PATH
PORT ST. LUCIE

TRAIL IMPROVEMENT PLAN

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Stuart, Florida 34994
P.E. No. 37638

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NOTE:
PROJECT LIES WITHIN SFWMR ERP 56-01506-P.
MINIMUM ROAD CROWN ELEVATION = 8.00 NAVD
MINIMUM BUILDING FLOOR ELEVATION = 8.50 NAVD

LEGEND	
	EASEMENT LINE
	LOT LINE
	PROPERTY LINE
	CENTERLINE
	CONCRETE TRAIL
	ASPHALT/PAVEMENT
	SURFACE SLOPE
	PROPOSED SURFACE GRADE ELEVATION
	EXISTING GRADE
	TOE OF BANK
	TOP OF BANK
	EXISTING TOP OF BANK
	RIP RAP
	BIO SWALE
	MITERED END STRUCT.
	HDPE STORM PIPE

CPSLUSD UTILITY FILE #5001-23A

P25-021

SCALE
VERIFICATION
1
SOLID BAR IS EQUAL
ORIGINAL DRAWING
ADJUST ALL SCALED
DIMENSIONS
ACCORDINGLY

**WILDERNESS TRAIL
MULTI USE PATH
PORT ST. LUCIE
TRAIL IMPROVEMENT PLAN**

JOSEPH W. CAPRA
301 N.W. Flagler Ave.
Stuart, Florida 34994
P.E. No. 37638

Printed Date:

JOB No. **1813.18.1**
SHEET
13 OF **22**

DATE: 07/20/2025
DRAWN BY: JFK
DESIGNED BY: CS
CHECKED BY: JWC
PROJECT No.: 1813.18.1
HORIZ. SCALE: 1" = 40'
VERT. SCALE: N/A
CADD FILE: 1813.18.1.dwg

NO.	DATE	BY	REVISIONS
1	07/20/2025	JFK	100% BID SET

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Fax: (772) 692-4344

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Engineering, Inc.
Civil Engineering Professionals

Engineering Business
No. EB-007657



CPSLUSD UTILITY FILE #5001-23A

P25-021

LEGEND	
	EASEMENT LINE
	LOT LINE
	PROPERTY LINE
	CENTERLINE
	CONCRETE TRAIL
	ASPHALT/PAVEMENT
	SURFACE SLOPE
	PROPOSED SURFACE GRADE ELEVATION
	EXISTING GRADE
	TOE OF BANK
	TOP OF BANK
	EXISTING TOP OF BANK
	RIP RAP
	BIO SWALE
	MITERED END STRUCT.
	HDPE STORM PIPE
	PROPOSED LPFM
	PROPOSED WATER MAIN
	POTENTIAL UTILITY CONFLICT

NOTE:
PROJECT LIES WITHIN SFWMD ERP 56-01506-P.
MINIMUM ROAD CROWN ELEVATION = 8.00 NAVD
MINIMUM BUILDING FLOOR ELEVATION = 8.50 NAVD



0 40' 80'

SCALE
VERIFICATION
1
0
SOLID BAR IS EQUAL
ORIGINAL DRAWING
ADJUST ALL SCALED
DIMENSIONS
ACCORDINGLY

WILDERNESS TRAIL
MULTI USE PATH
PORT ST. LUCIE
TRAIL IMPROVEMENT PLAN

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Stuart, Florida 34994
P.E. No. 37638

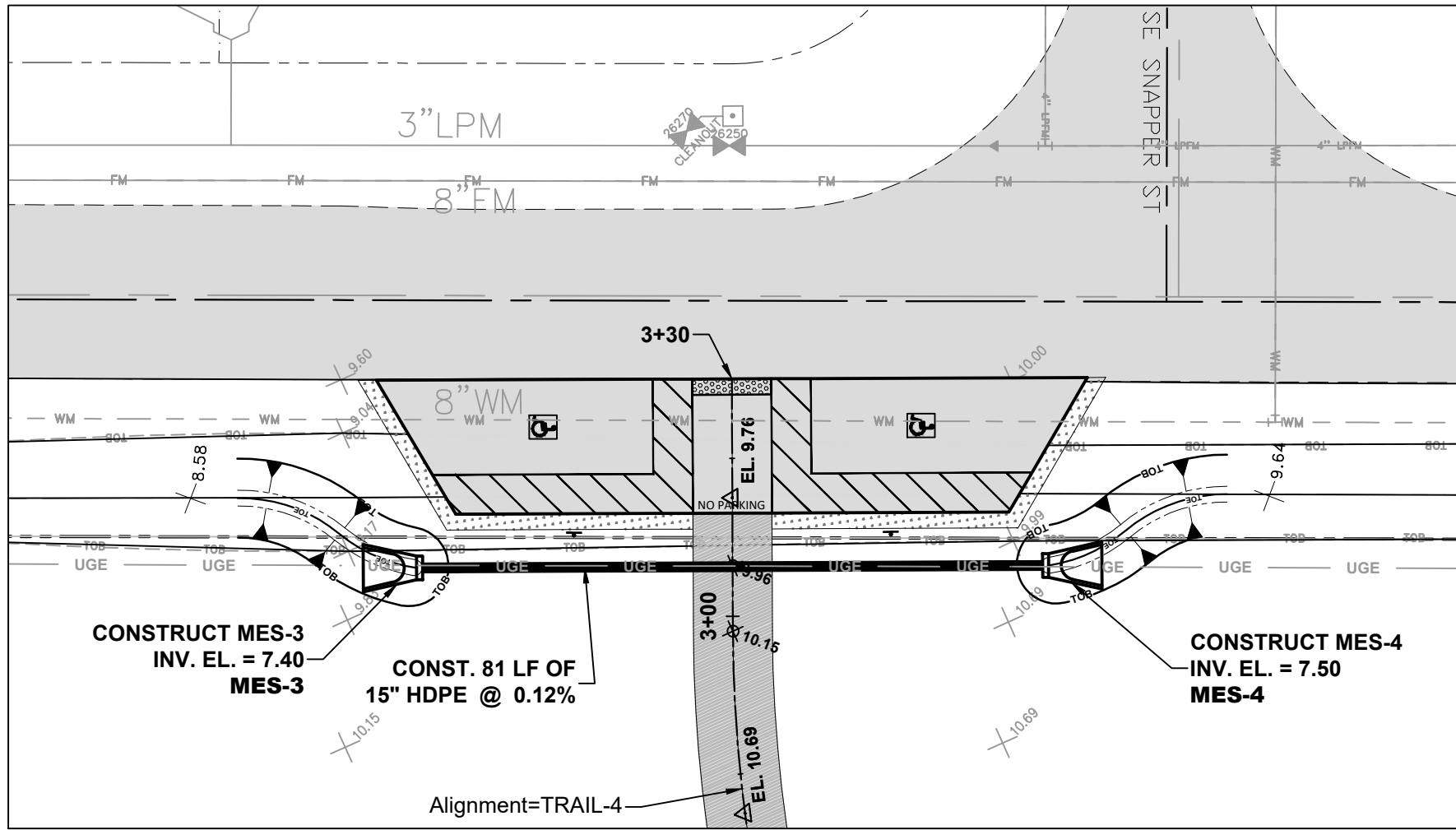
Printed Date:

JOB No. 1813.18.1
SHEET
14 OF 22

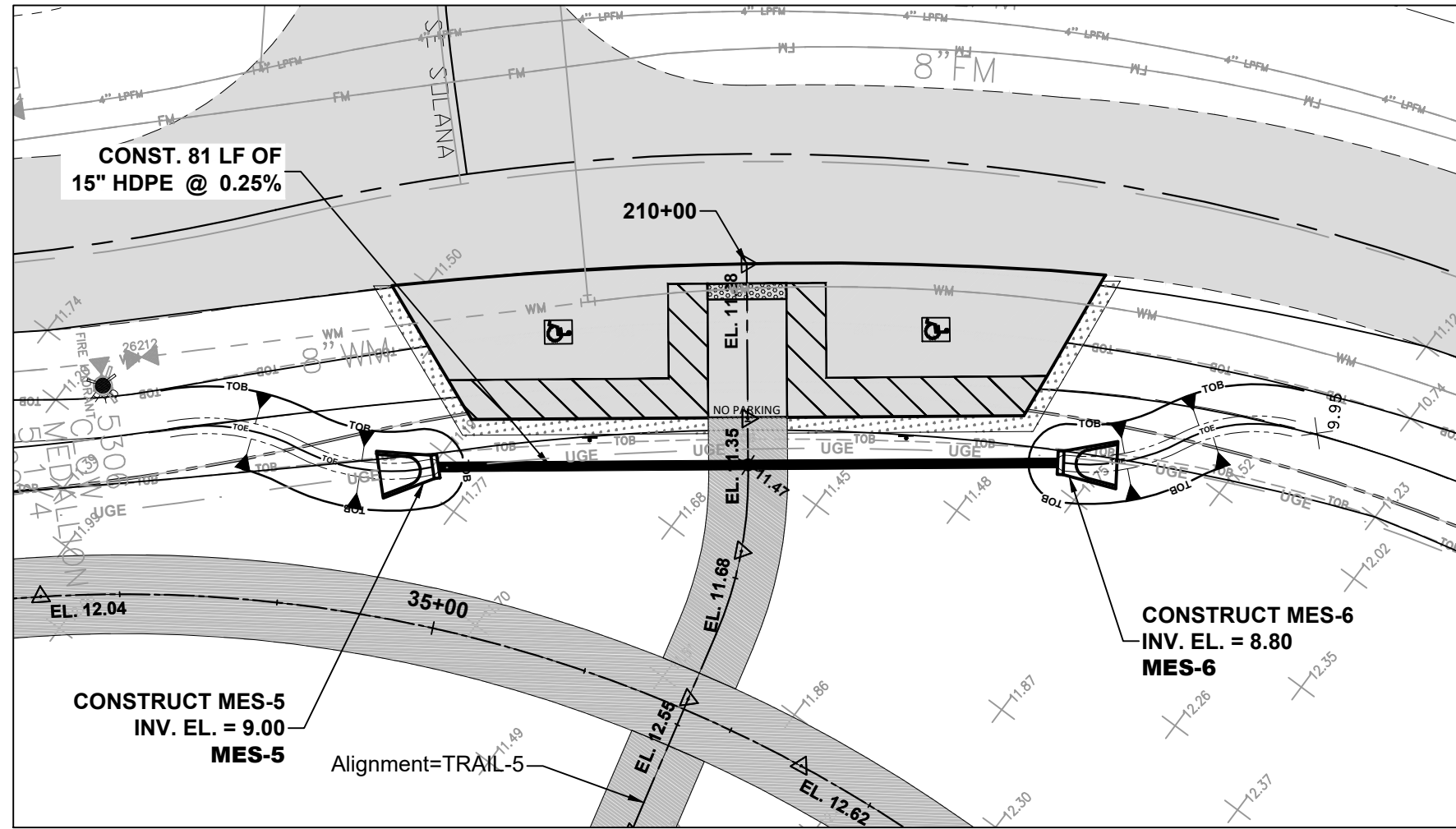
301 N.W. Flagler Ave.
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Fax: (772) 692-4341
CAPTEC Engineering, Inc.
Civil Engineering Professionals
Engineering Business
No. EB-007657

DATE: 07/03/2025
DRAWN BY: JFK
DESIGNED BY: CS
CHECKED BY: JWC
PROJECT No.: 1813.18.1
HORIZ. SCALE: 1" = 40'
VERT. SCALE: N/A
CADD FILE: 1813.18.1.dwg

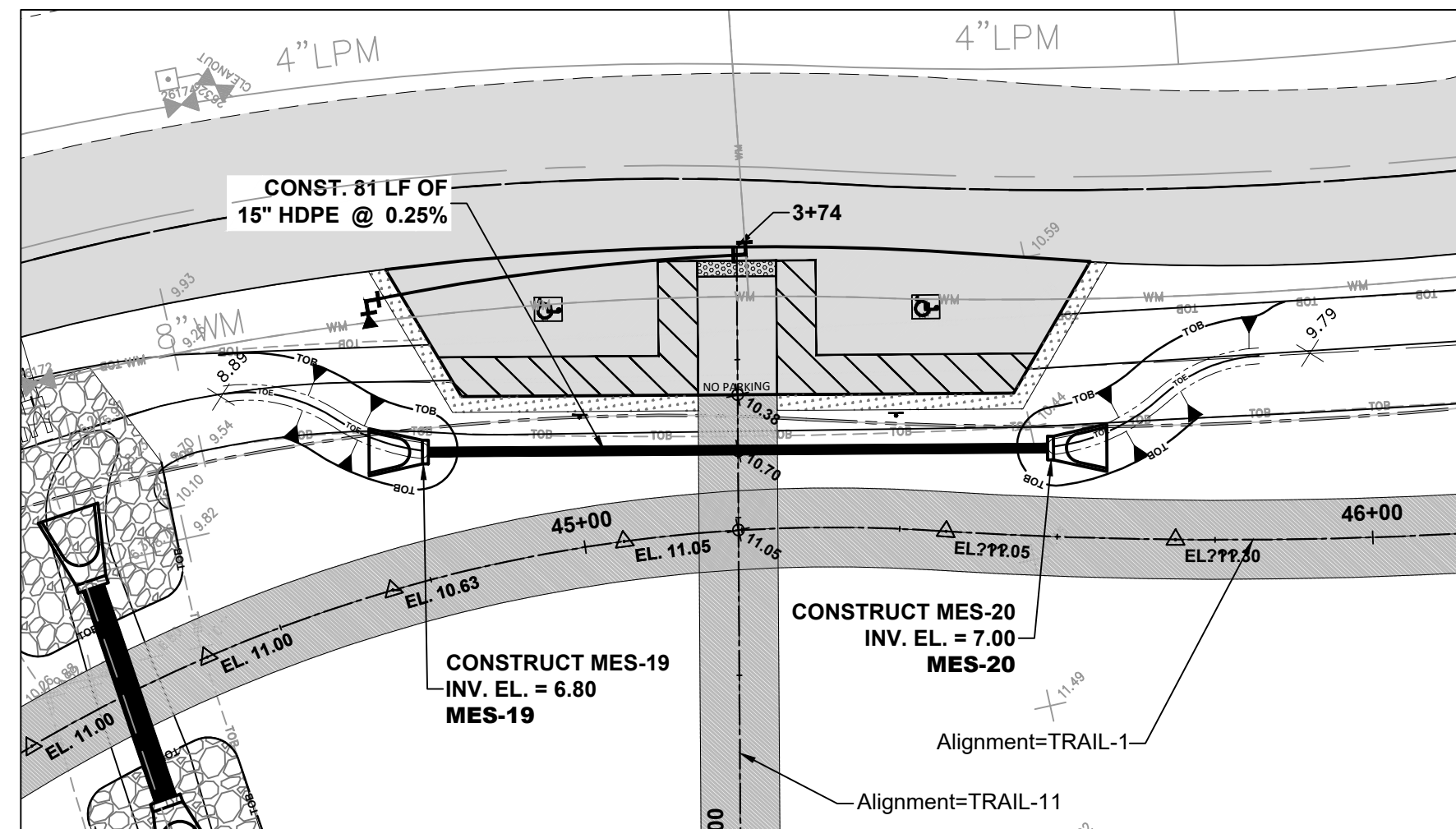
NO.	DATE	BY	REVISIONS
1	07/03/2025	JFK	100% BID SET



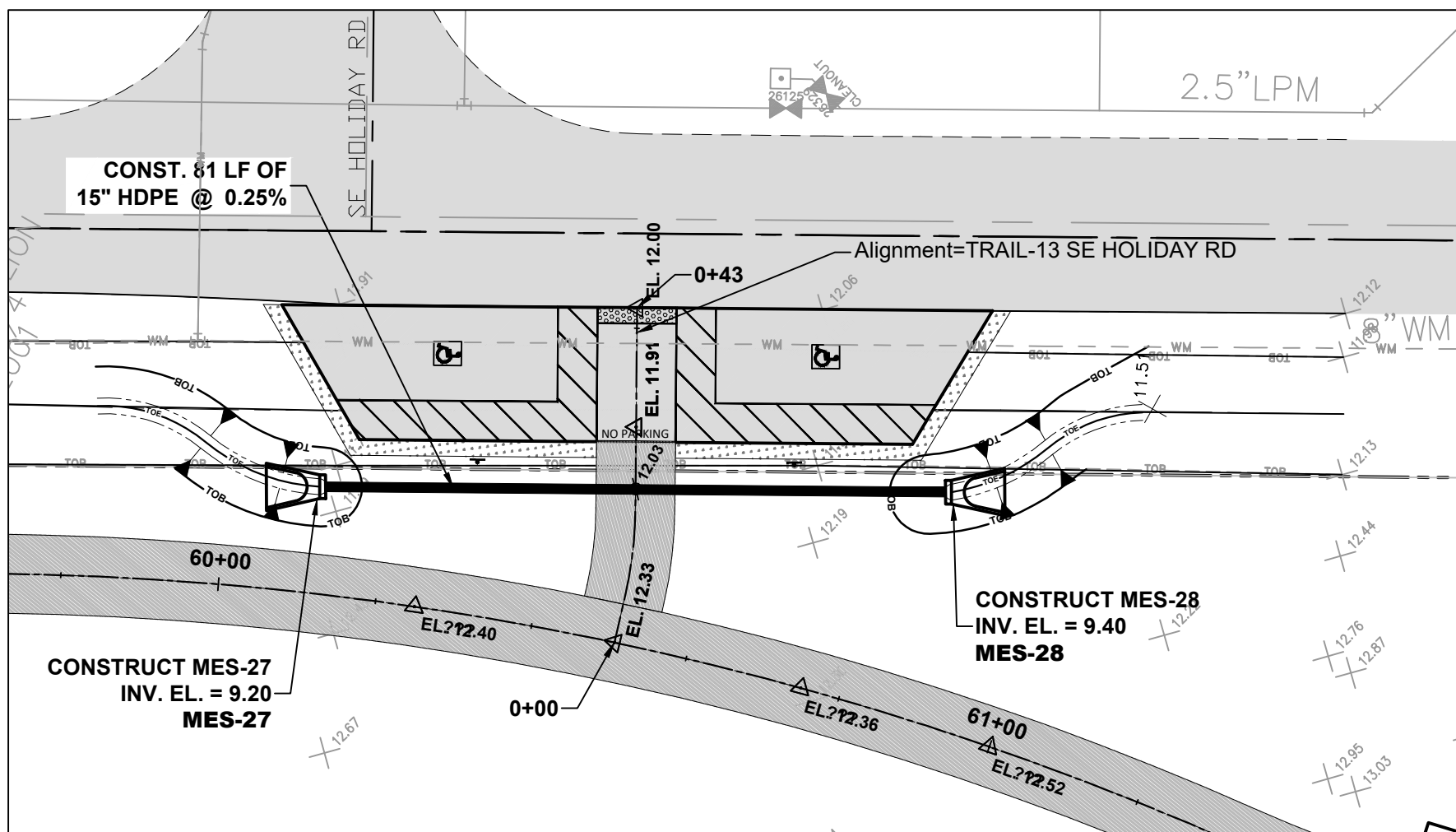
**DETAIL ON STREET ADA- PARALLEL
PARKING & PATH CONNECTION**
#1
SCALE: 1" = 20'



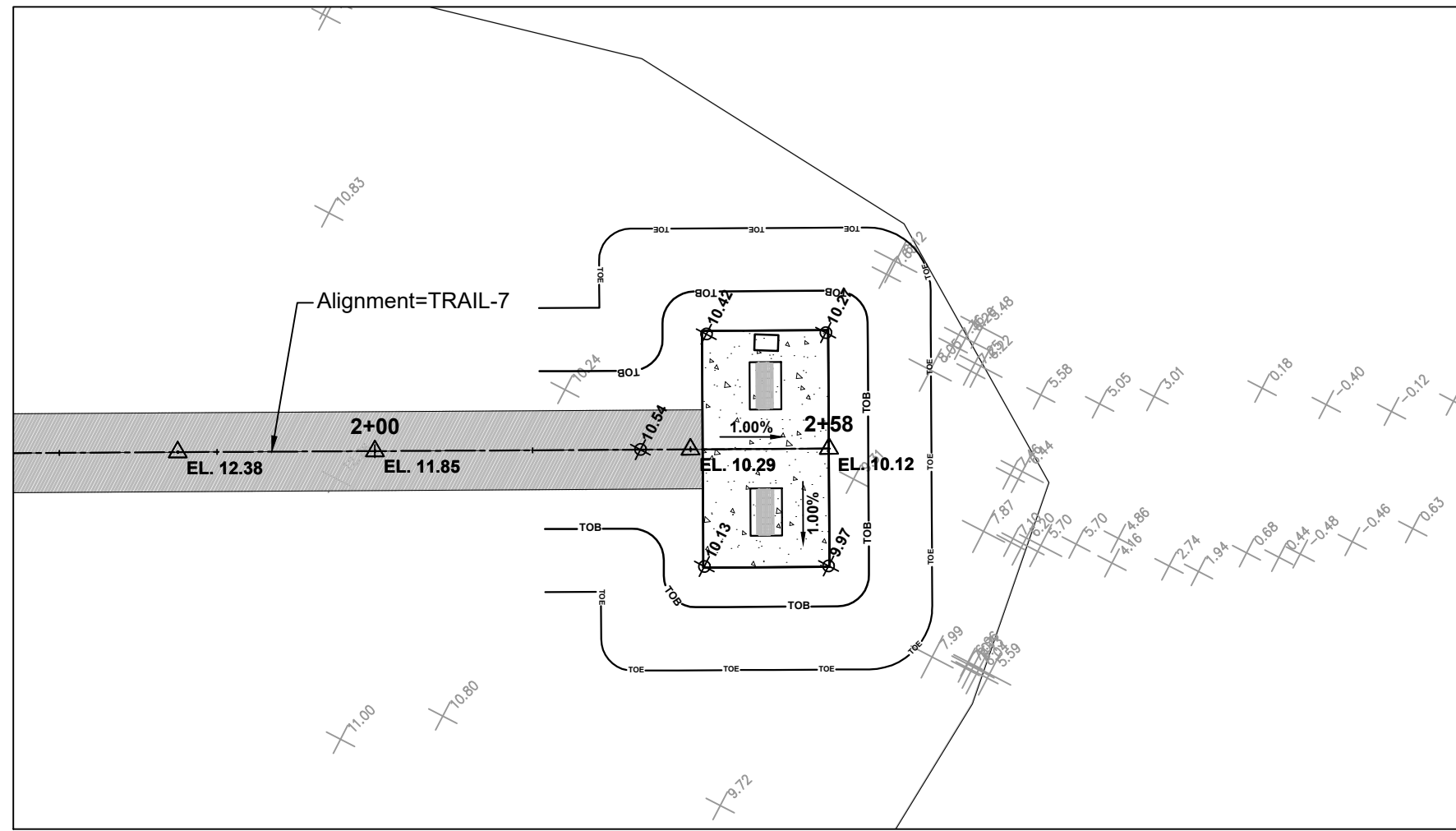
**DETAIL ON STREET ADA- PARALLEL
PARKING & PATH CONNECTION**
#2
SCALE: 1" = 20'



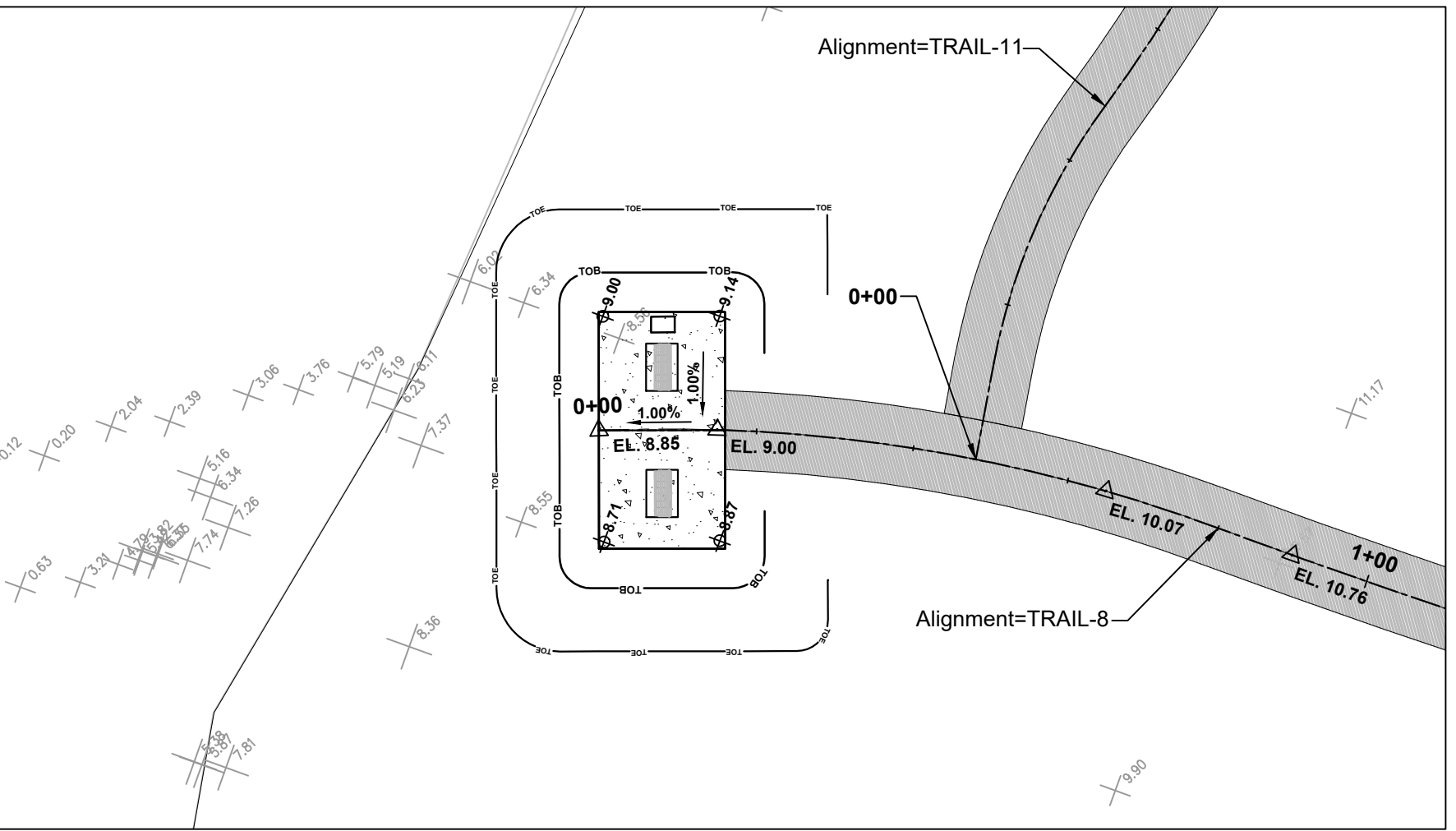
**DETAIL ON STREET ADA-
PARALLEL PARKING & PATH
CONNECTION**
#3
SCALE: 1" = 20'



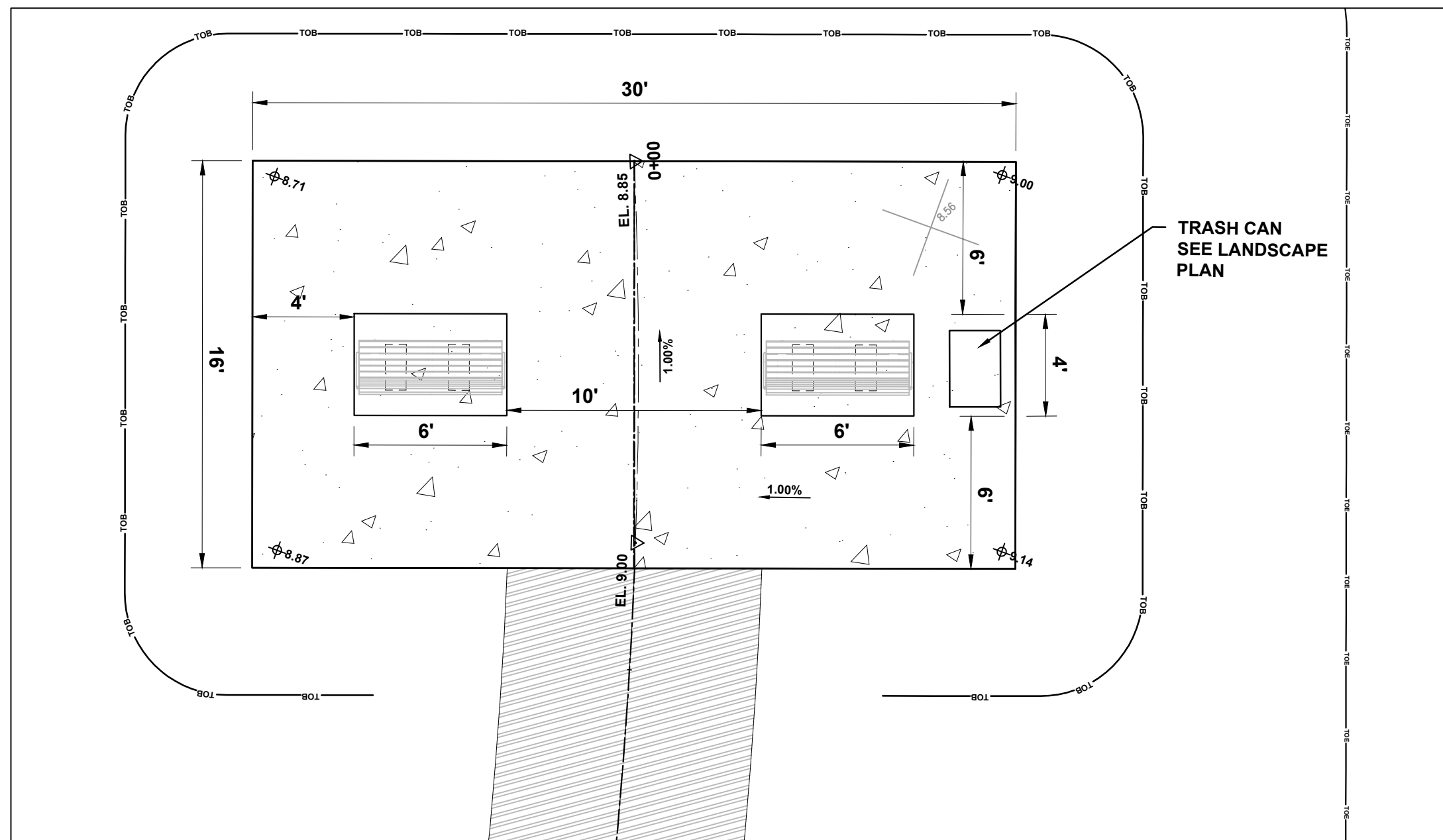
**DETAIL ON STREET ADA- PARALLEL
PARKING & PATH CONNECTION**
#4
SCALE: 1" = 20'



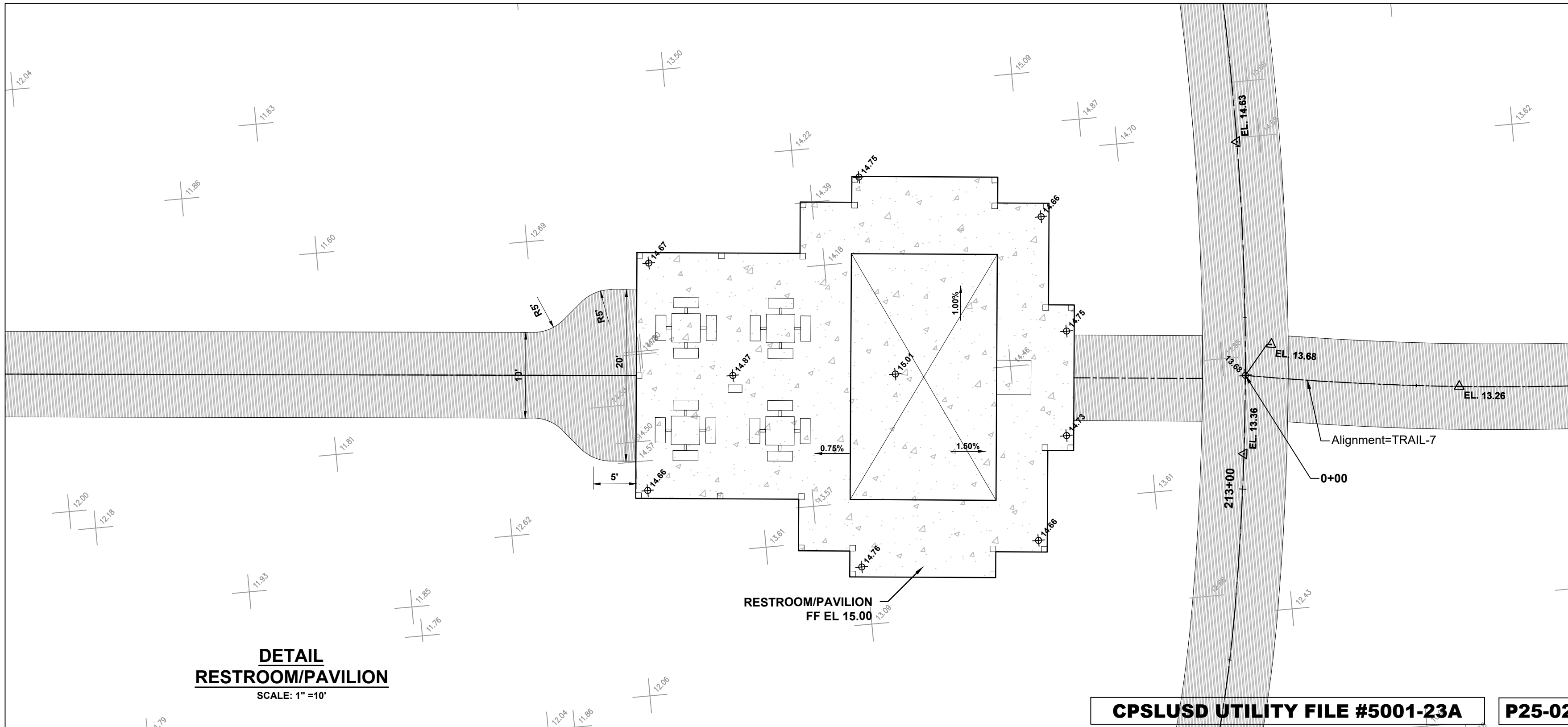
**DETAIL
CONCRETE BENCH PAD**
#1
SCALE: 1" = 20'



**DETAIL
CONCRETE BENCH PAD**
#2
SCALE: 1" = 20'



**DETAIL
CONCRETE BENCH PAD**
#2 (TYPICAL DIMENSIONS)
SCALE: 1" = 5'



**DETAIL
RESTROOM/PAVILION**
SCALE: 1" = 10'

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CAPTEC
Engineering, Inc.
Civil Engineering Professionals

Engineering Business
No. EB-007657

DATE: 07/03/2025
DRAWN BY: JJK
DESIGNED BY: CS
CHECKED BY: JWC
PROJECT No.: 1813.18.1
HORIZ. SCALE: 1" = 20'
VERT. SCALE: N/A
CADD FILE: 18131818-001.dwg

NO.	DATE	BY	REVISIONS
1	07/03/2025	JJK	100% BID SET

SCALE
VERIFICATION
1
0
SOLID BAR IS EQUAL
ORIGINAL DRAWING.
ADJUST ALL SCALED
DIMENSIONS
ACCORDINGLY

**WILDERNESS TRAIL
MULTI USE PATH
PORT ST. LUCIE**

**TRAIL IMPROVEMENT PLAN
DETAILS**

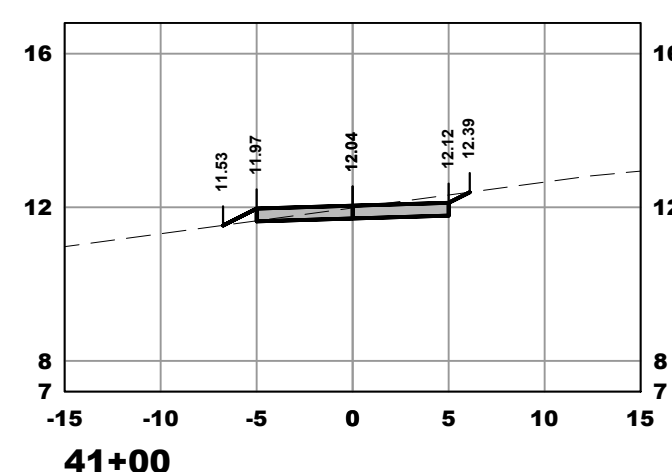
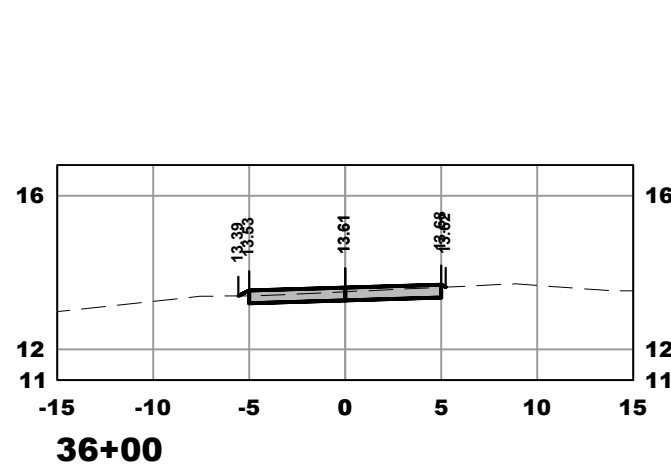
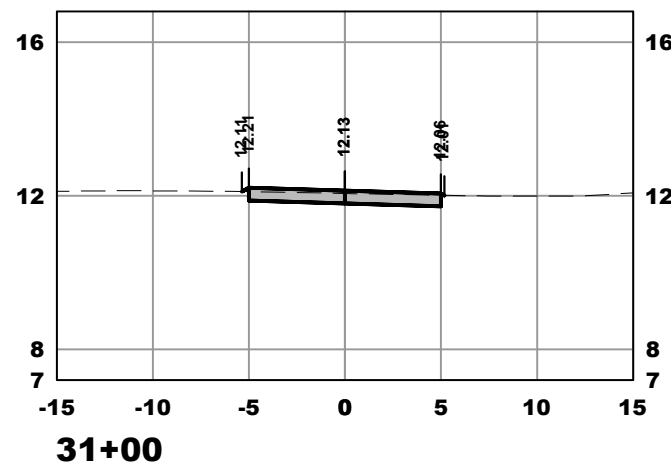
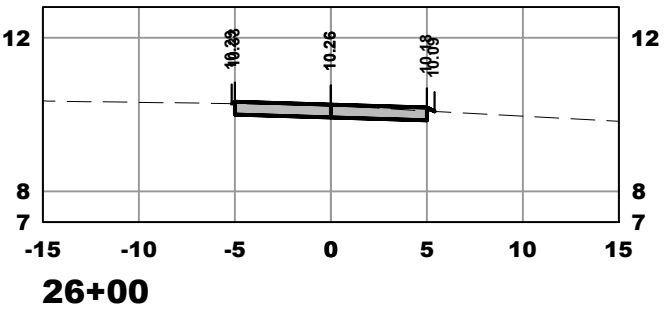
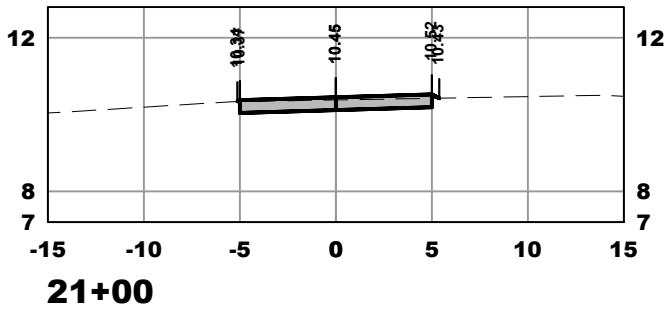
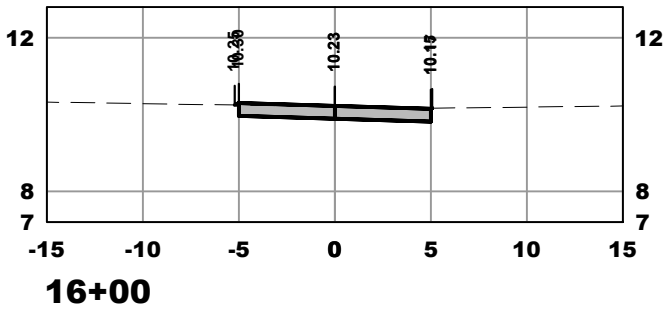
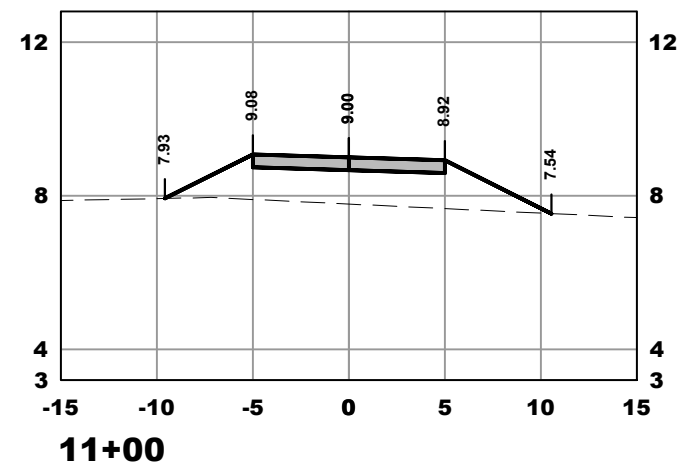
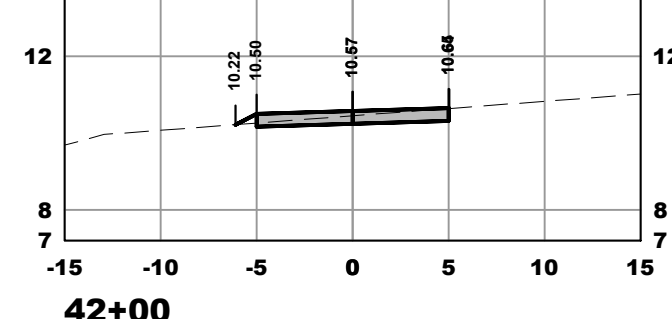
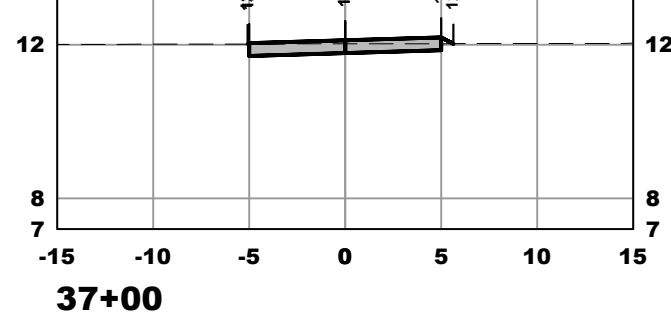
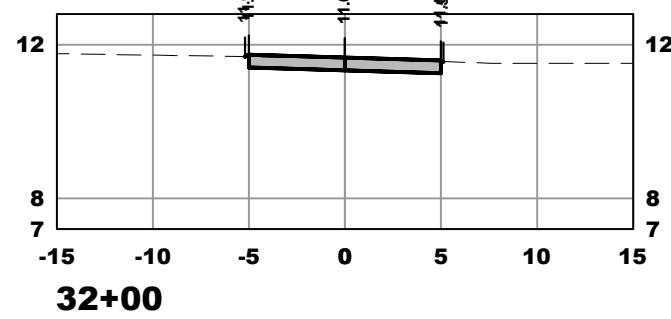
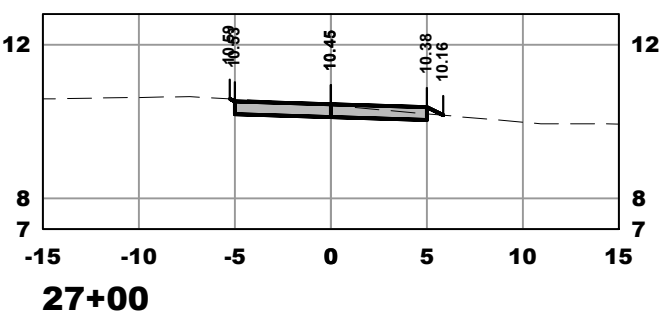
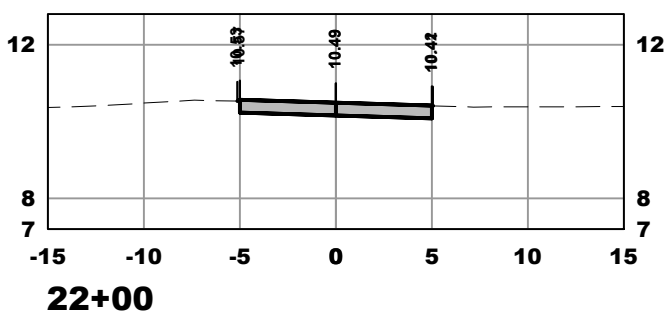
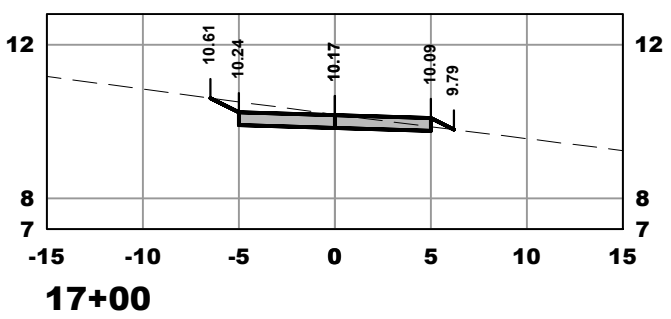
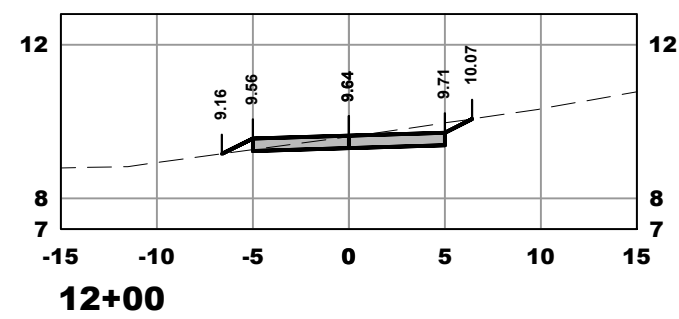
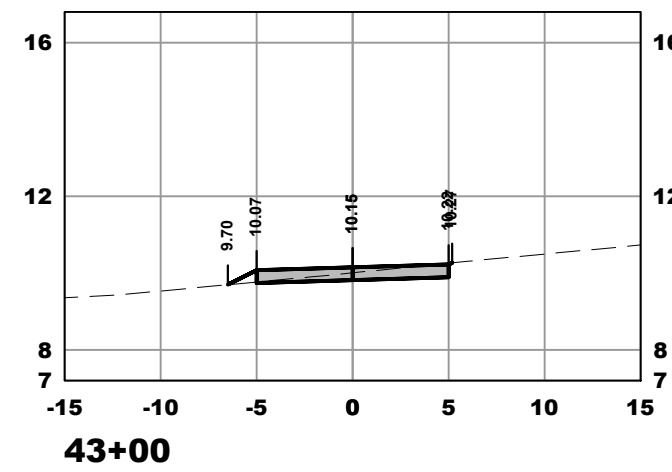
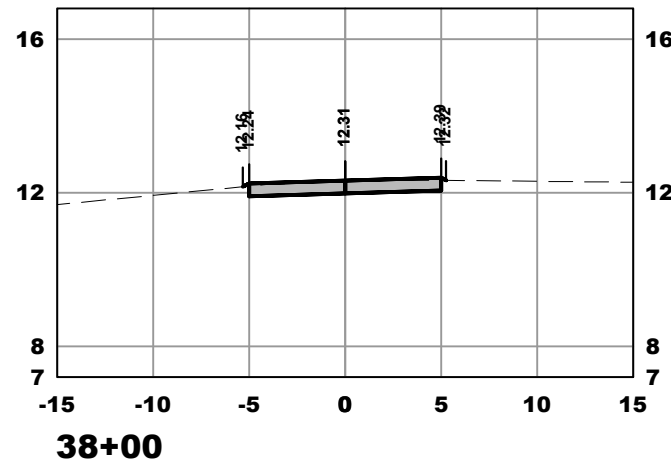
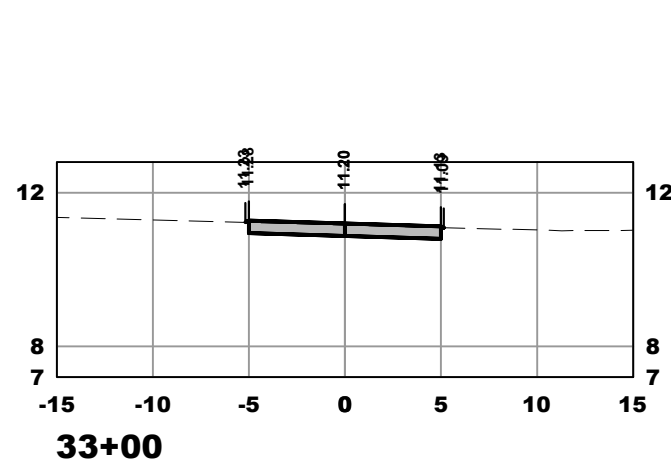
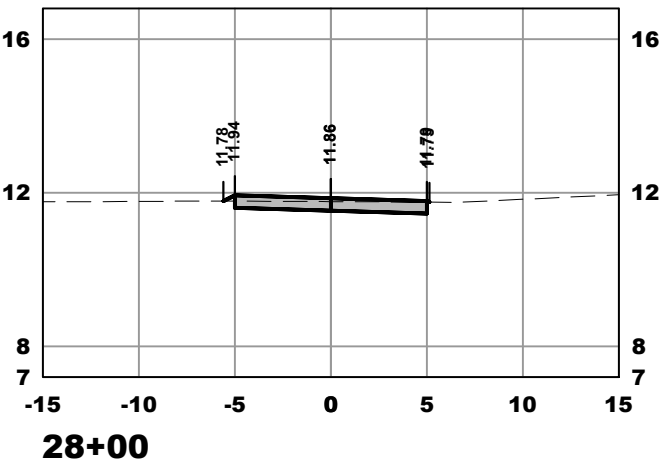
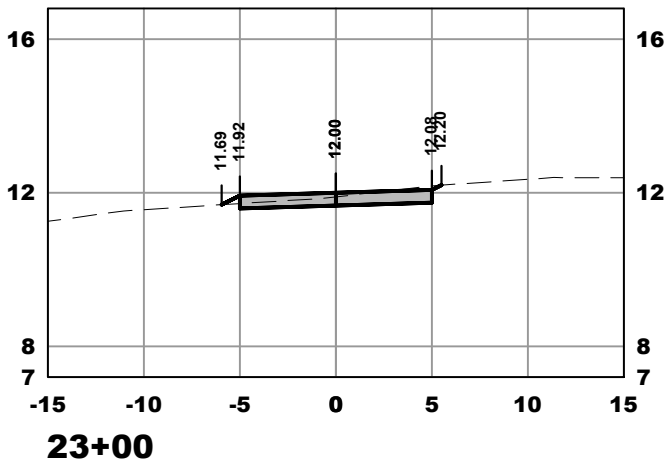
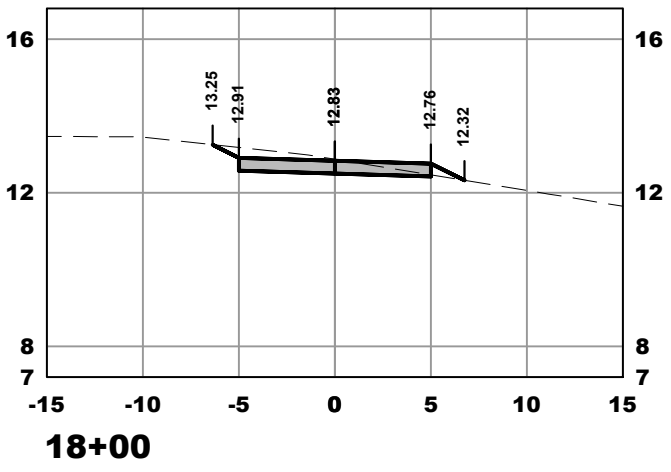
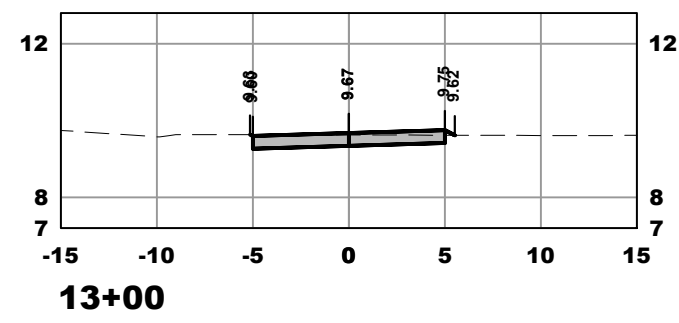
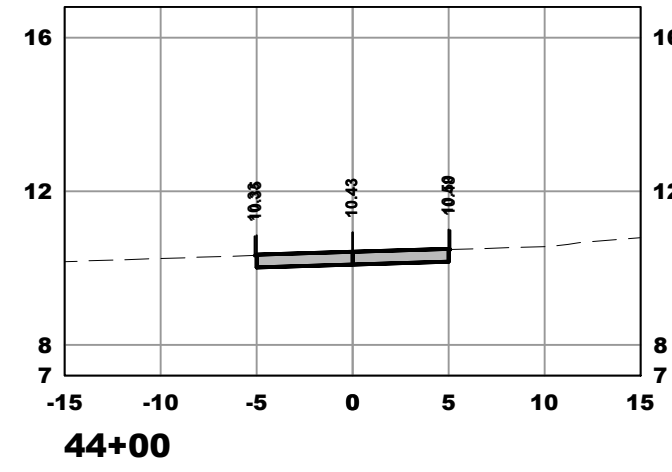
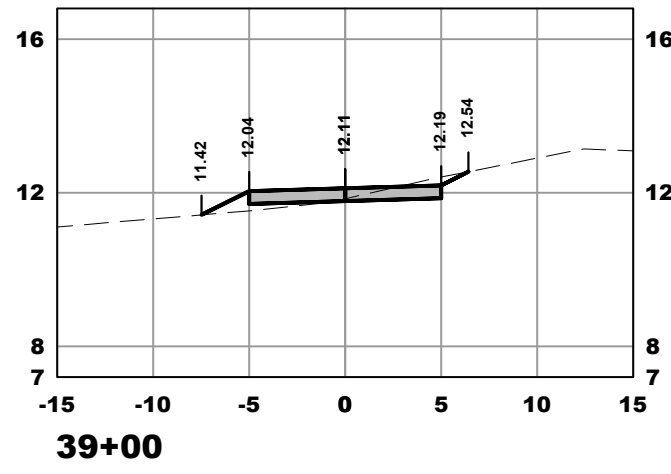
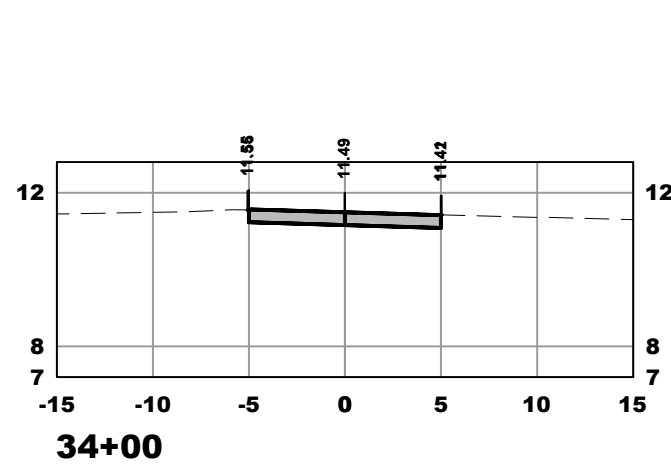
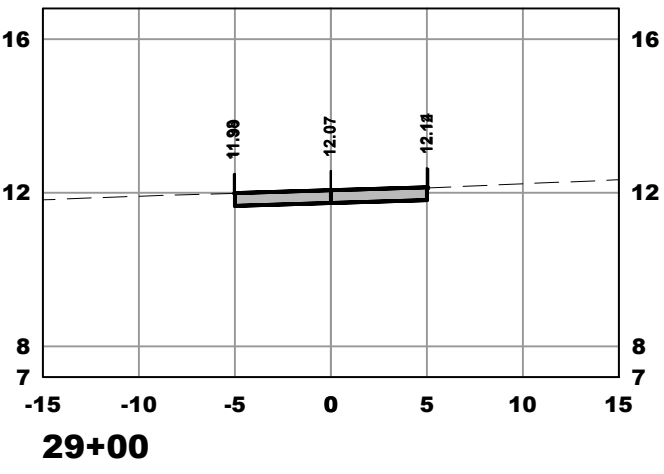
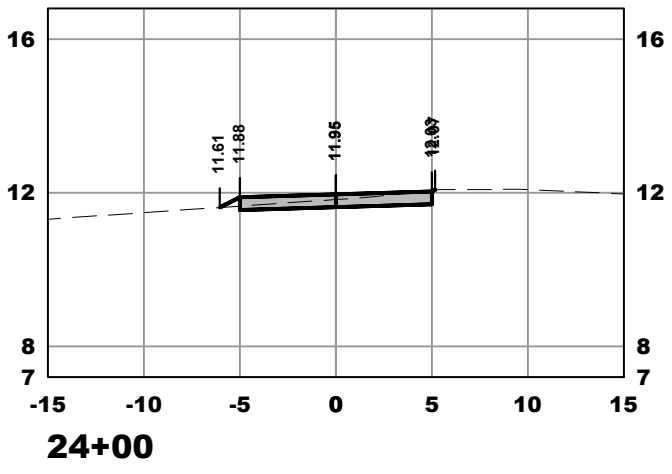
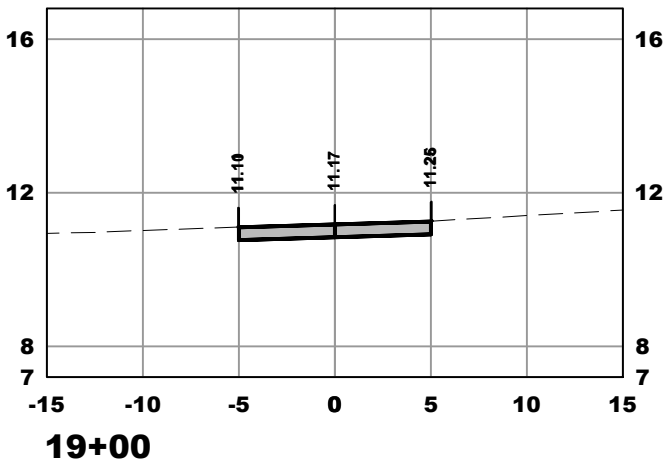
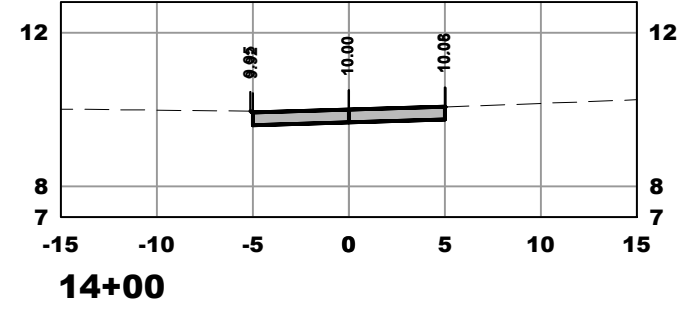
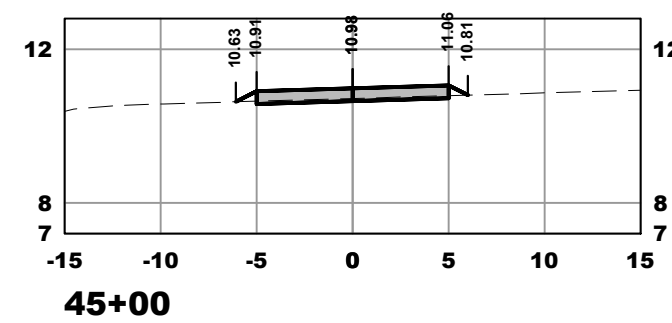
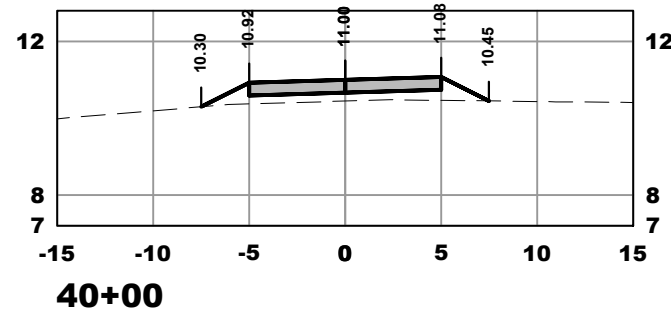
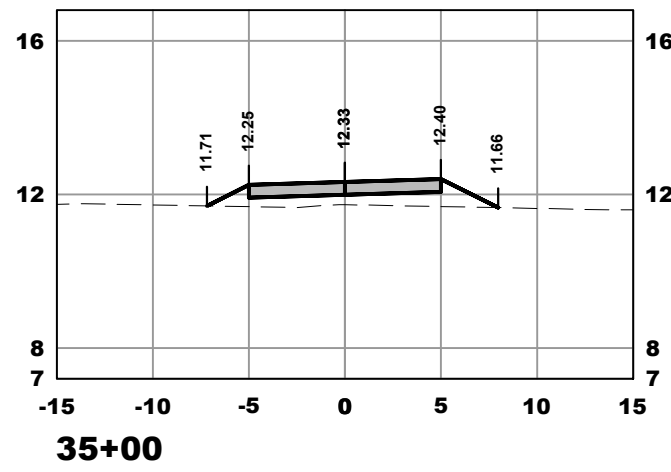
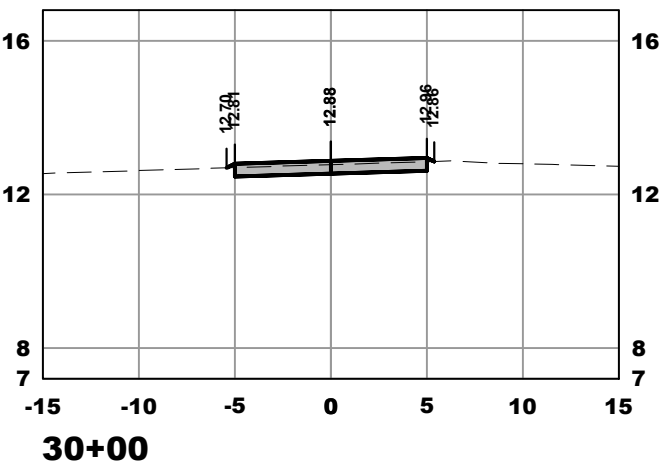
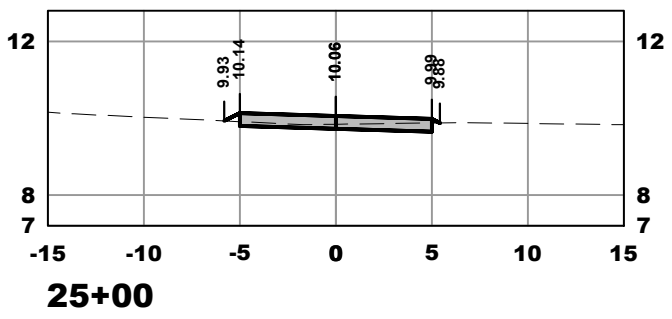
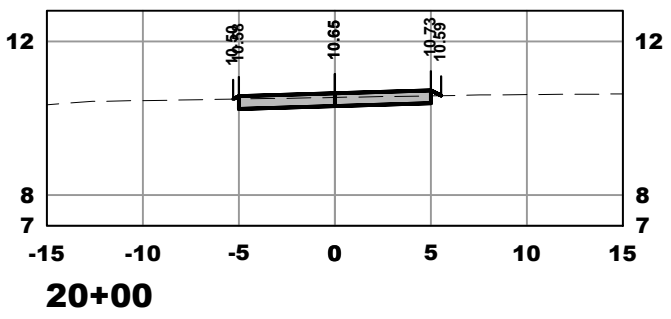
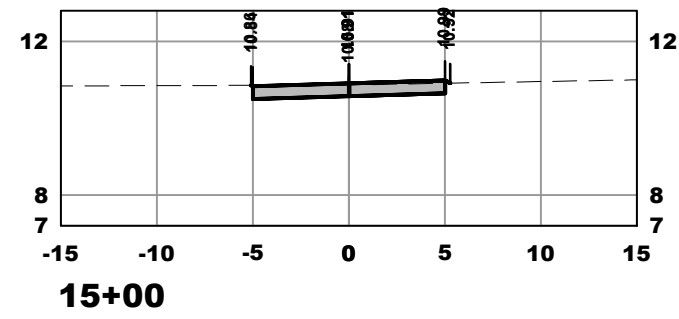
JOSEPH W. CAPRA
301 N.W. Flagler Ave.
Stuart, Florida 34994
P.E. No. 37638

Printed Date:

JOB No. **1813.18.1**
SHEET
15 OF 22

CPSLUSD UTILITY FILE #5001-23A P25-021

THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OR IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADOPTION BY CAPTEC ENGINEERING, INC. SHALL BE WITHOUT LIABILITY TO CAPTEC ENGINEERING, INC.



TRAIL 1 START



• 301 N.W. Flagler Ave.
Stuart, Florida 34994
Phone: (772) 692-4344
Fax: (772) 692-4341
Engineering Business
No. EB-007657



DATE: 07/03/2025
DRAWN BY: JFK
DESIGNED BY: CS
CHECKED BY: JWC
PROJECT No.: 1813.18.1
HORIZ. SCALE: 1" = 10'
VERT. SCALE: 1" = 5'
CADD FILE: 18131803052005

NO.	DATE	BY	REVISIONS
1	07/03/2025	JFK	100% BID SET

SCALE VERIFICATION
1
SOLID BAR IS EQUAL
TO ORIGINAL DRAWING.
ADJUST ALL SCALED
DIMENSIONS
ACCORDINGLY

WILDERNESS TRAIL
MULTI USE PATH
PORT ST. LUCIE
CROSS SECTIONS

JOSEPH W. CAPRA
301 N.W. Flagler Ave.
Stuart, Florida 34994
P.E. No. 37638

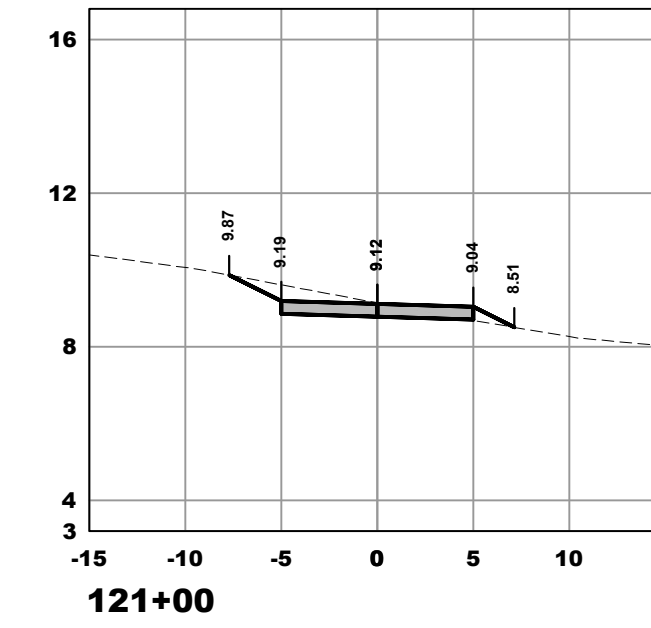
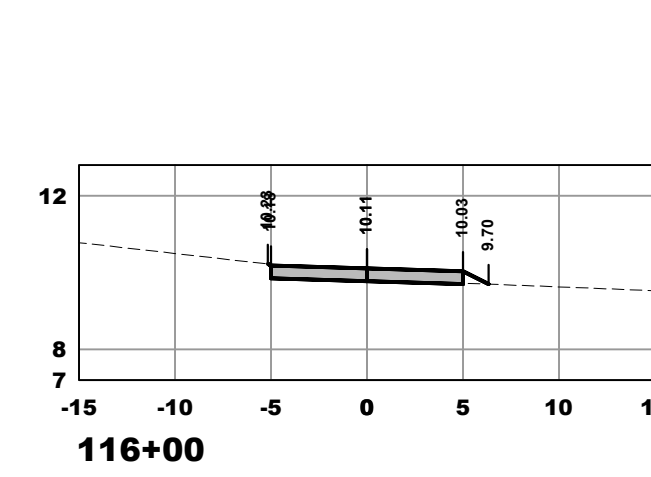
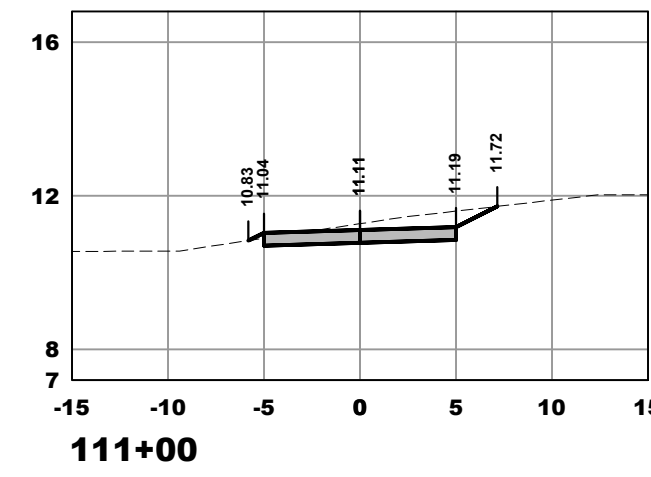
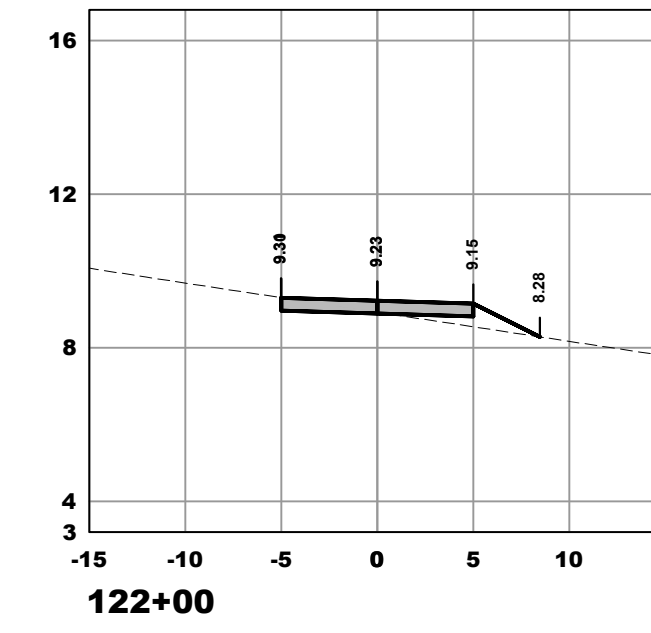
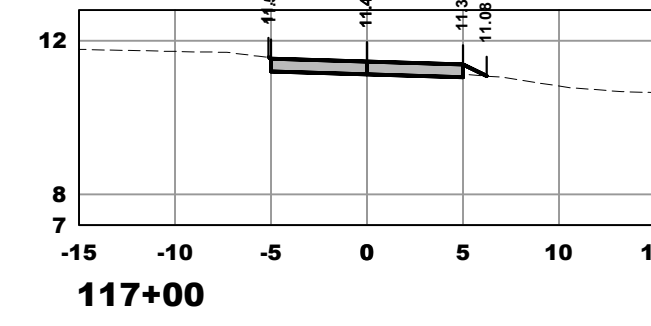
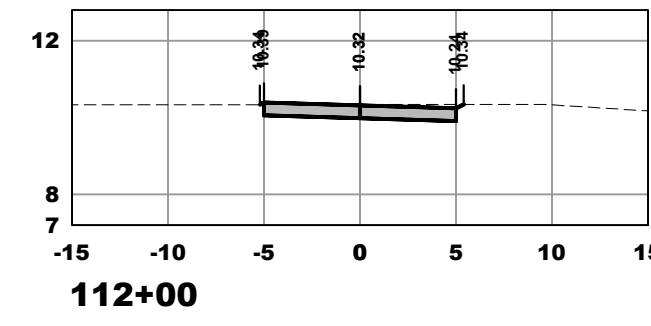
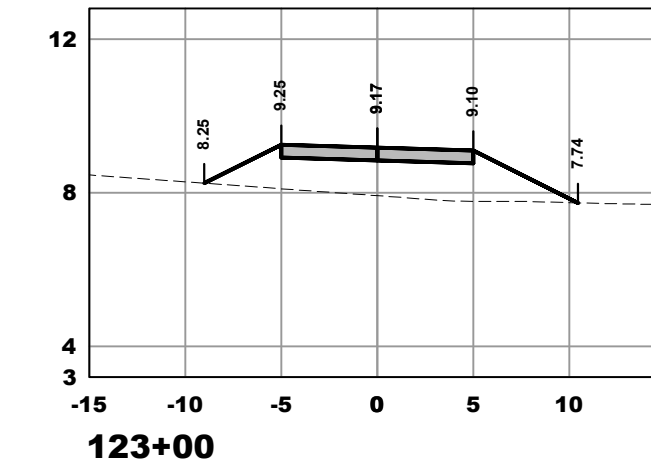
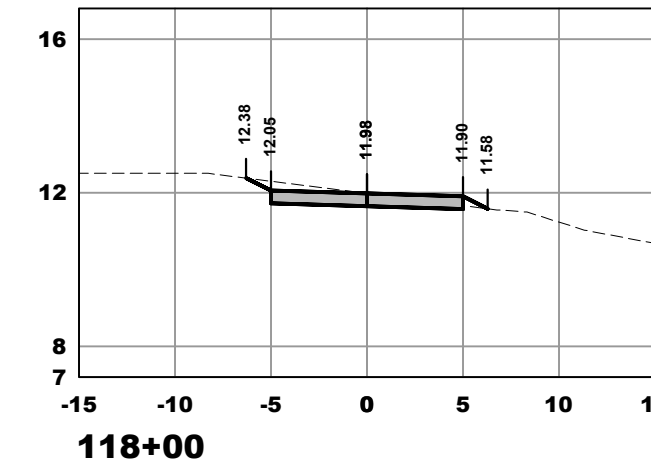
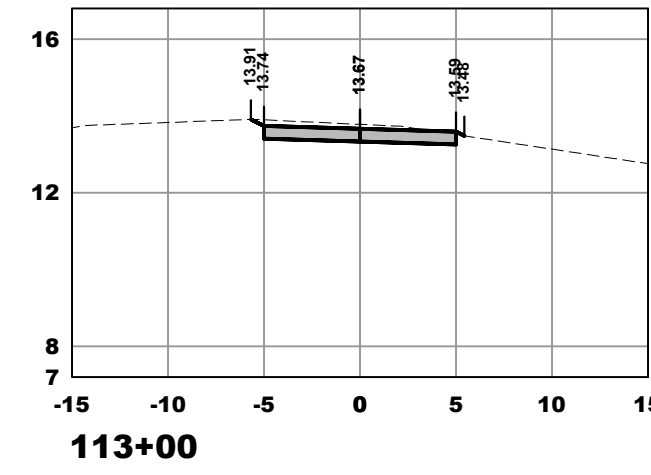
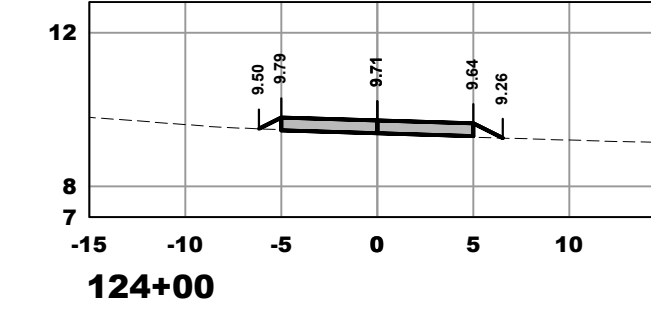
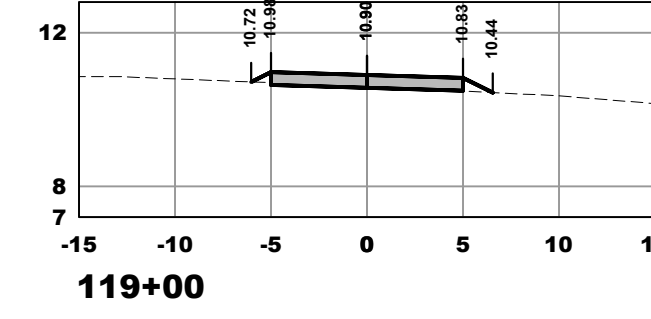
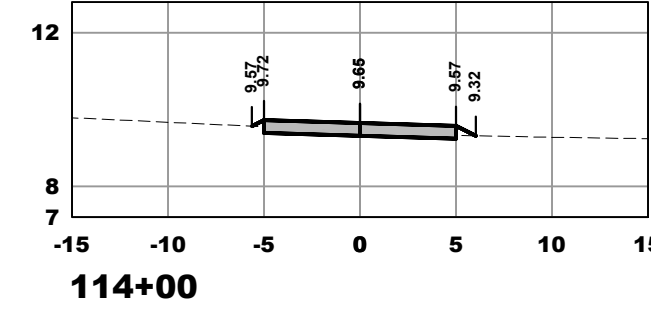
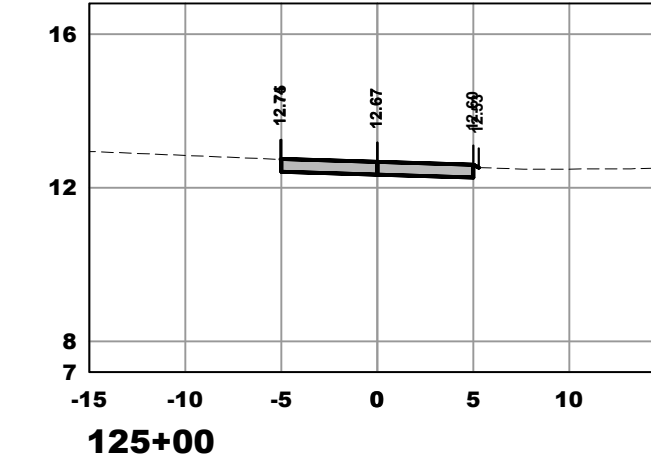
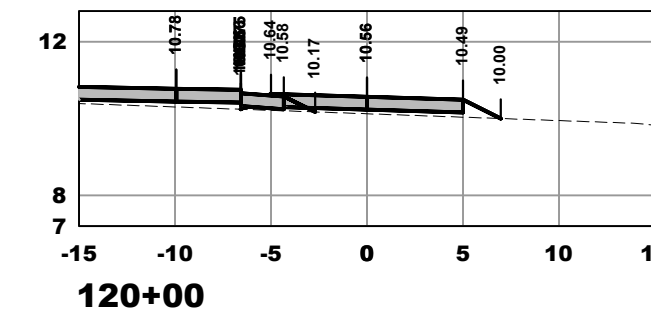
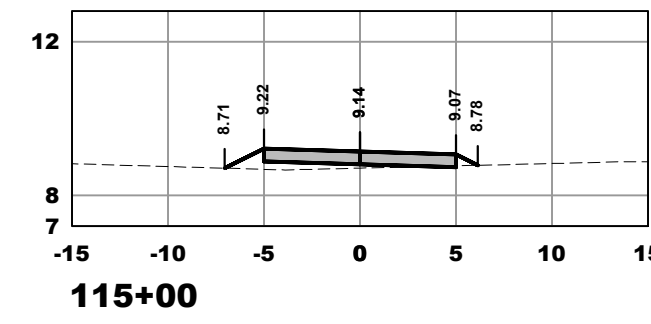
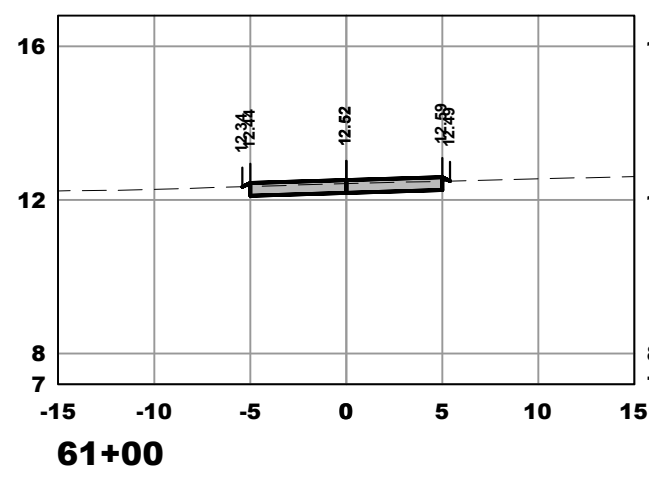
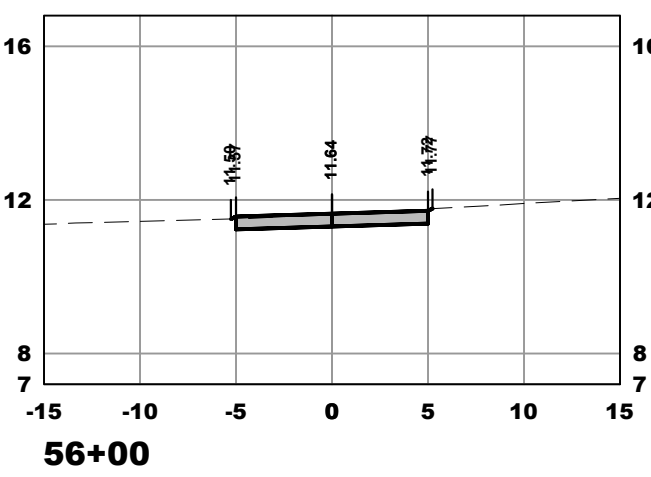
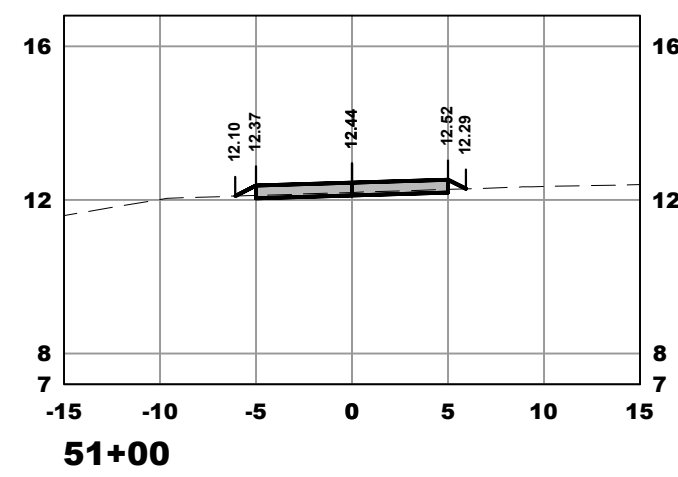
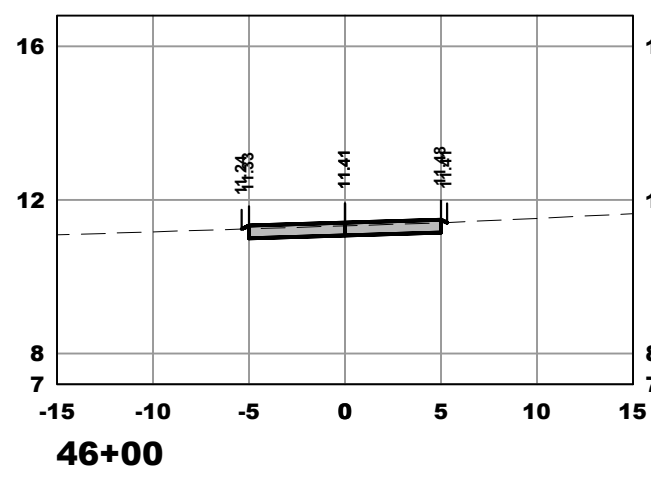
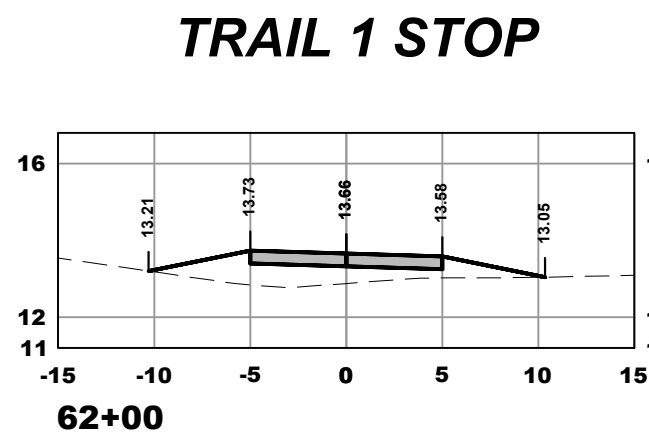
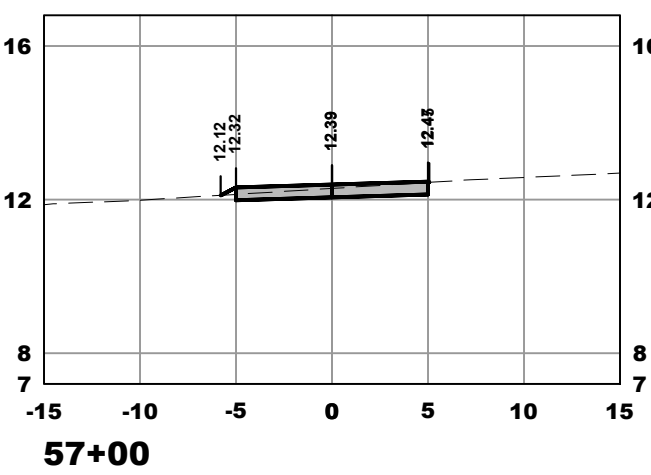
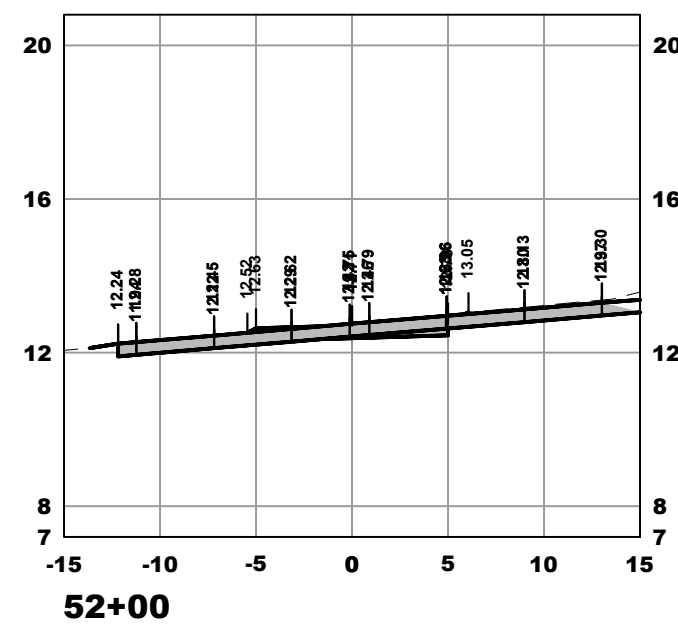
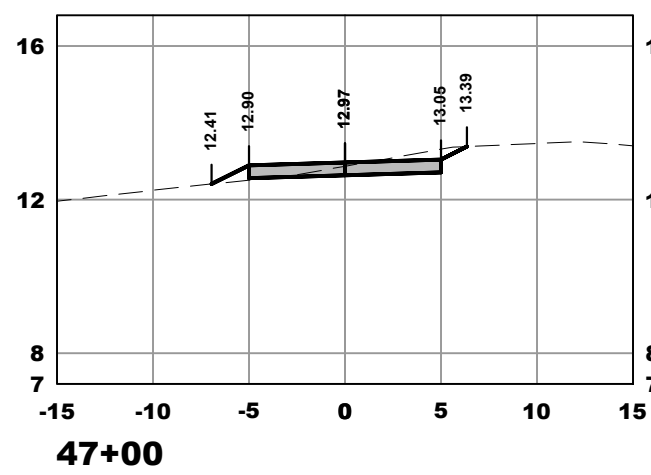
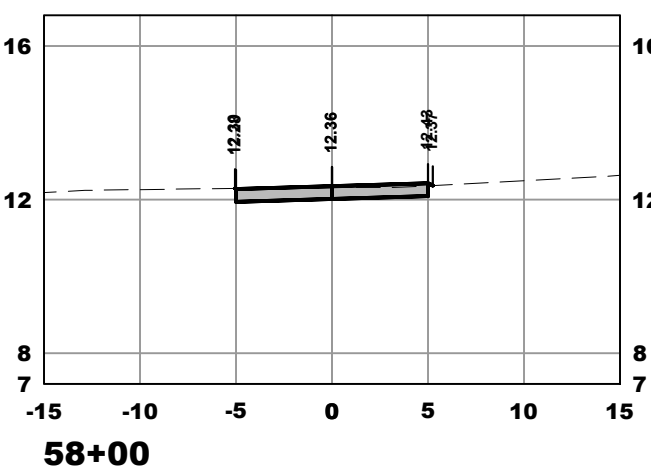
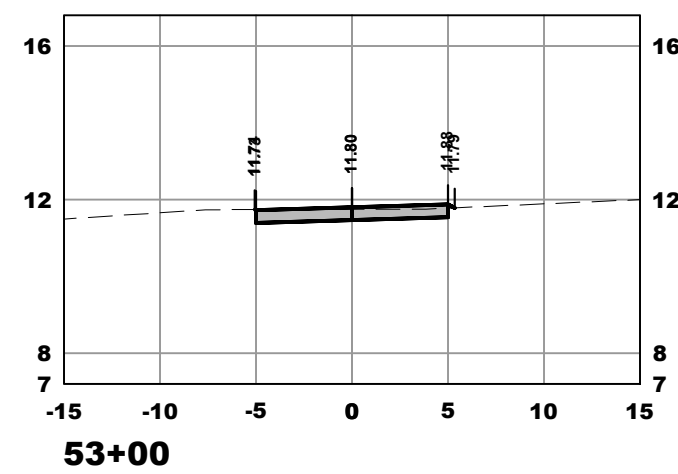
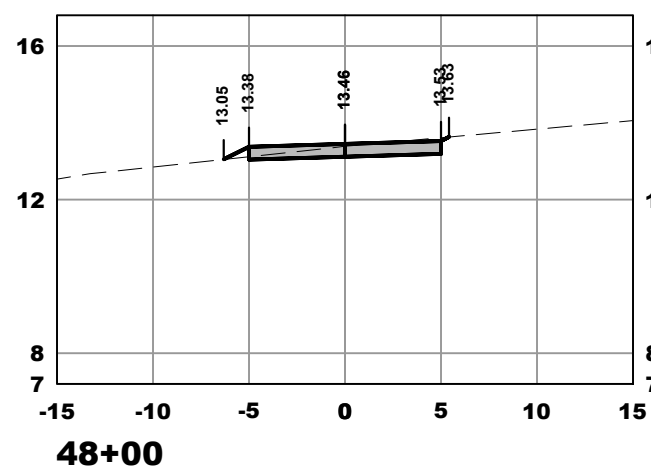
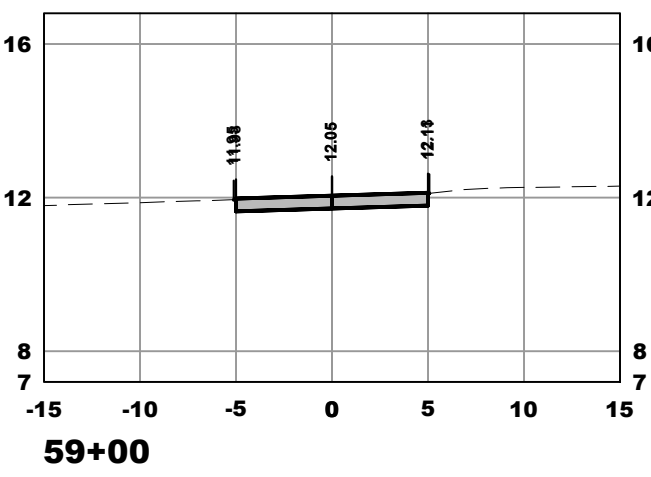
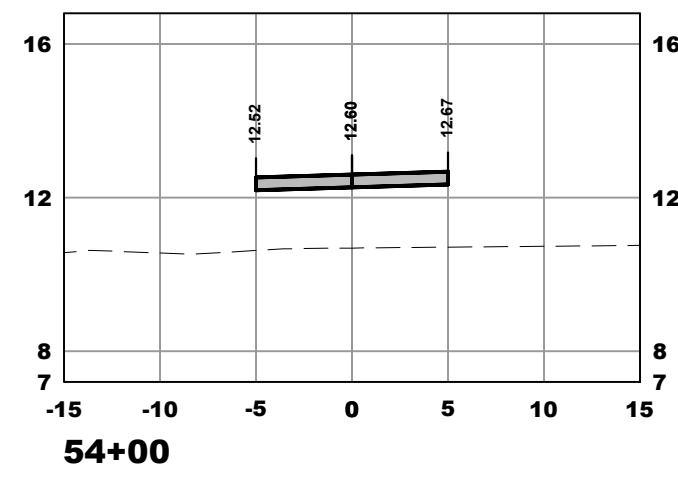
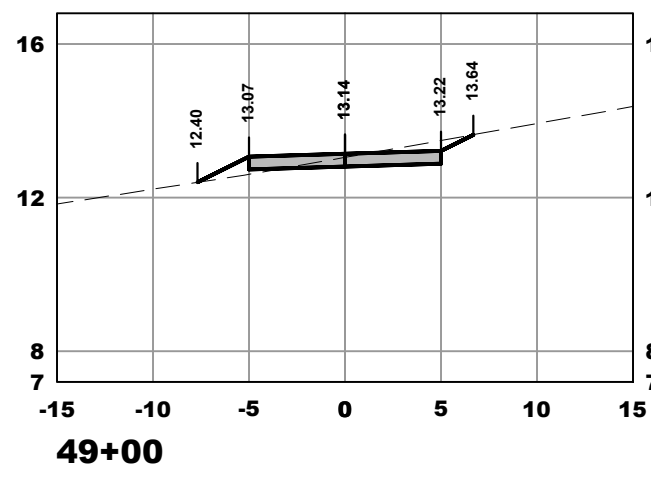
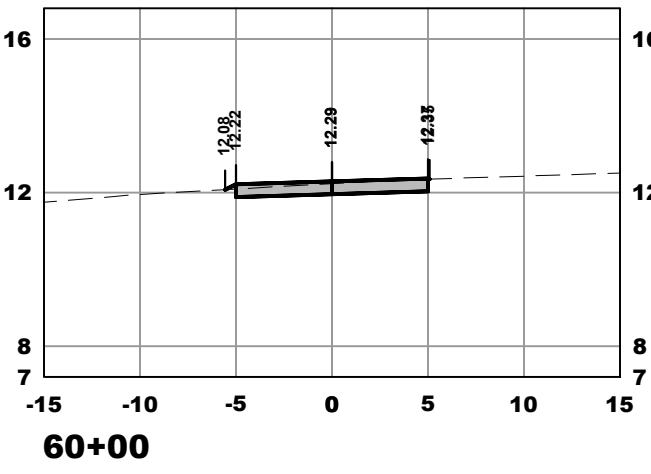
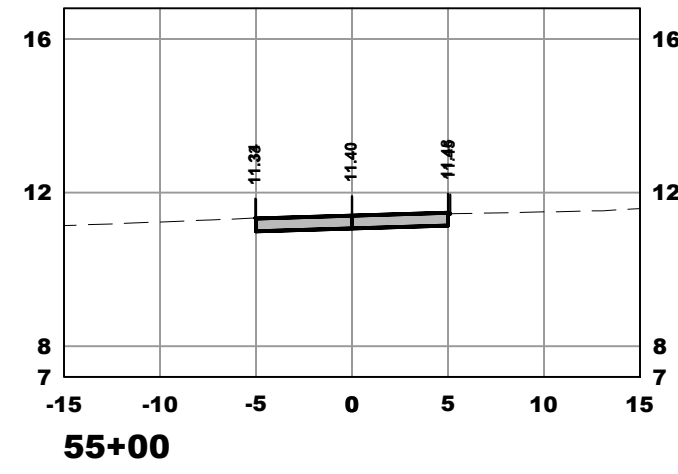
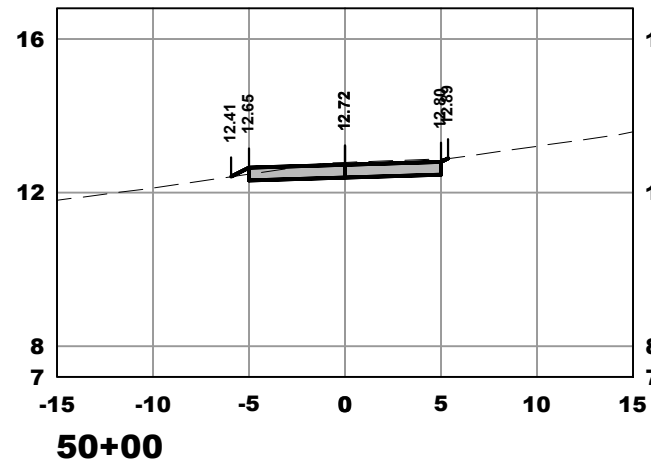
Printed Date:

JOB No. 1813.18.1
SHEET
16 OF 22

CPSLUSD UTILITY FILE #5001-23A

P25-021

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TRAIL 2 START

TRAIL 1 STOP



SCALE
VERIFICATION
1
SOLID BAR IS EQUAL
TO DIMENSIONS
ADJUST ALL SCALED
DIMENSIONS
ACCORDINGLY

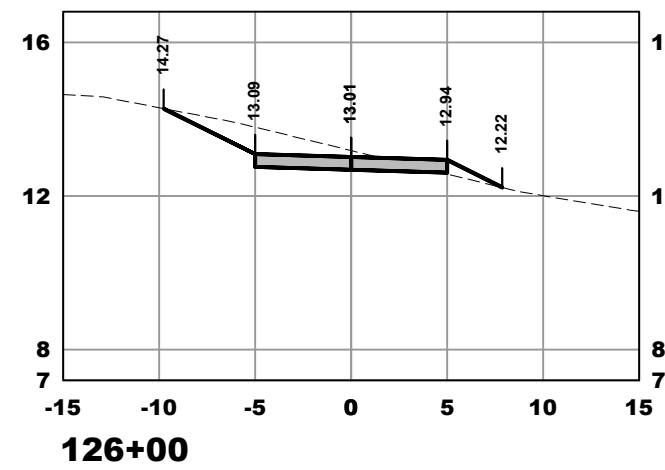
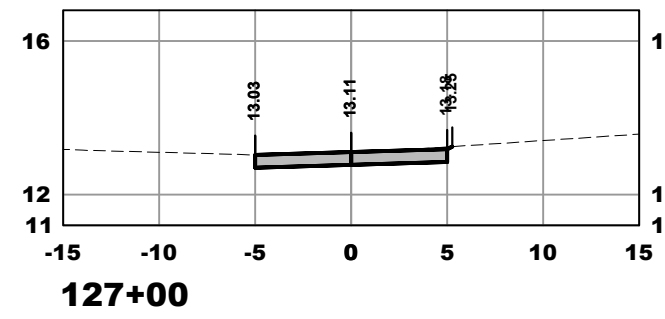
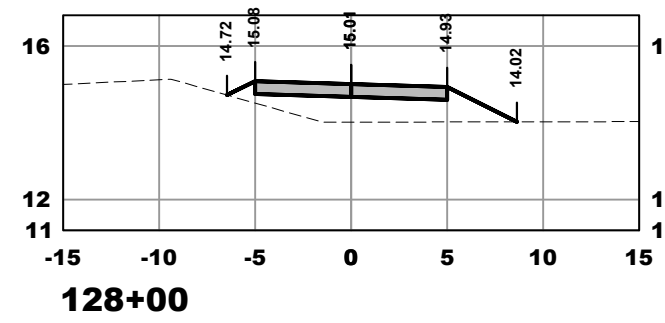
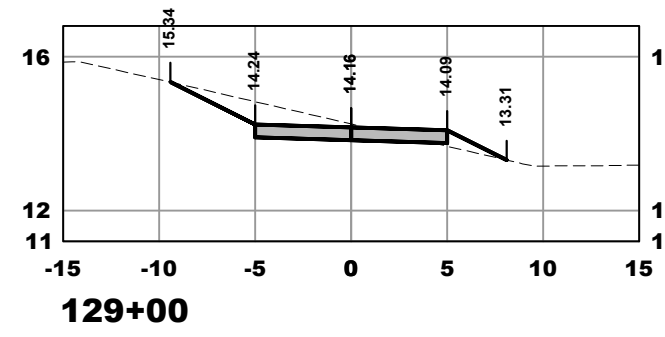
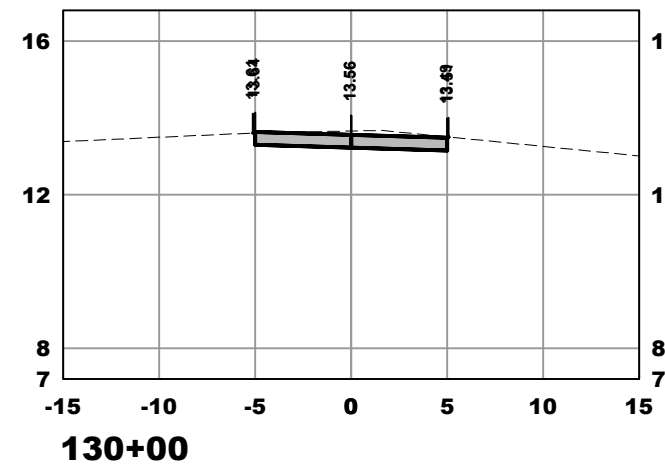
WILDERNESS TRAIL
MULTI USE PATH
PORT ST. LUCIE
CROSS SECTIONS

JOSEPH W. CAPRA
301 N.W. Flagler Ave.
Stuart, Florida 34994
P.E. No. 37638

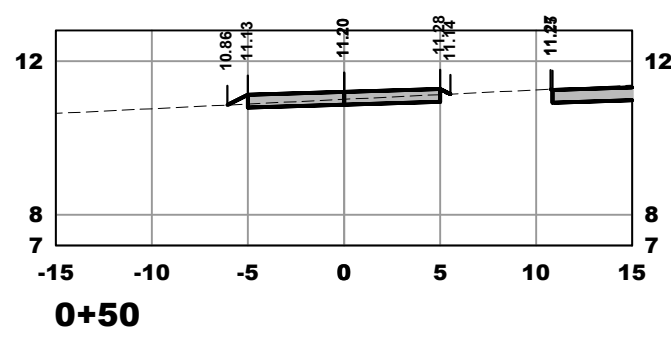
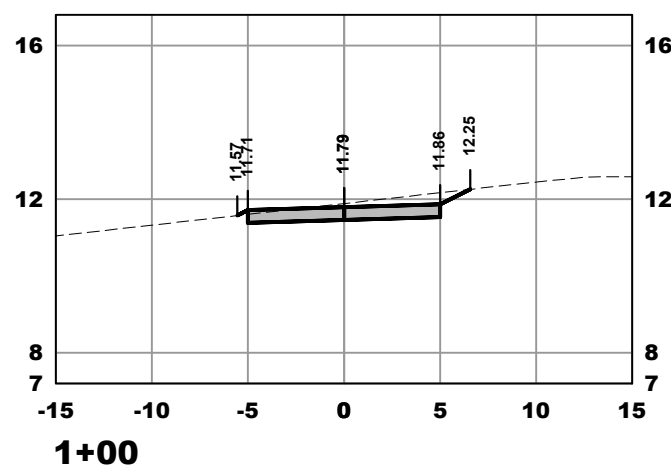
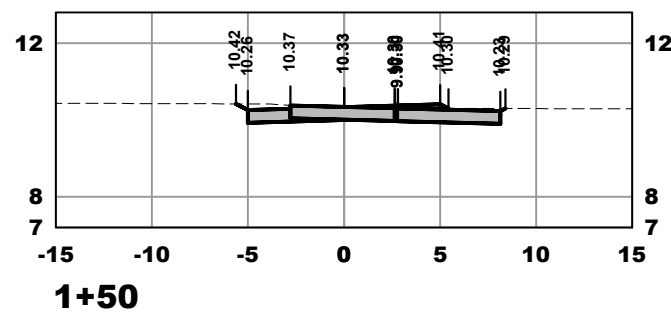
DATE: 07/03/2025
DRAWN BY: JFK
DESIGNED BY: CS
CHECKED BY: JWC
PROJECT No.: 1813.18.1
HORIZ. SCALE: 1" = 10'
VERT. SCALE: 1" = 5'
CADD FILE: 181318030205

NO.	DATE	BY	REVISIONS
1	07/03/2025	JFK	100% BID SET

301 N.W. Flagler Ave.
Stuart, Florida 34994
Phone: (772) 692-4344
Fax: (772) 692-4341
CAPTEC Engineering, Inc.
Civil Engineering Professionals
Engineering Business
No. EB-007657

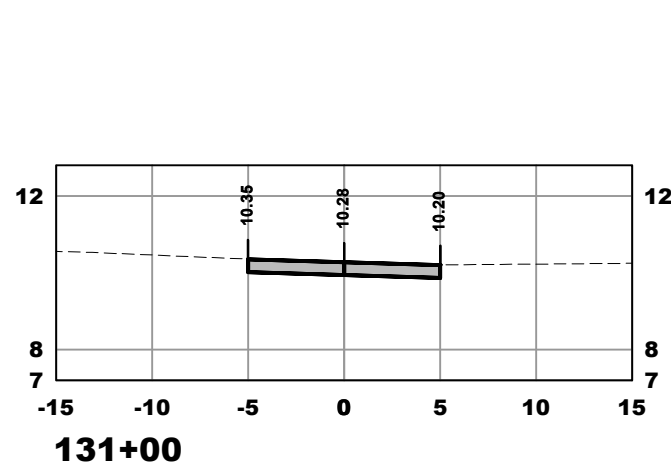
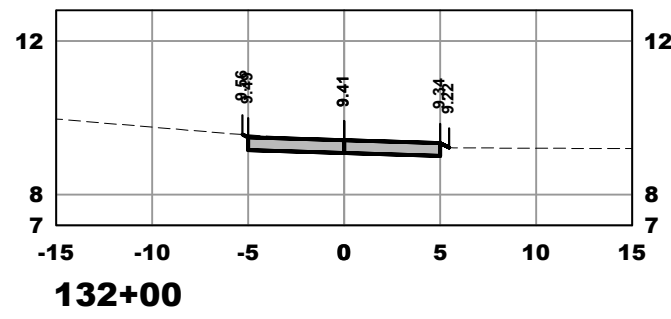
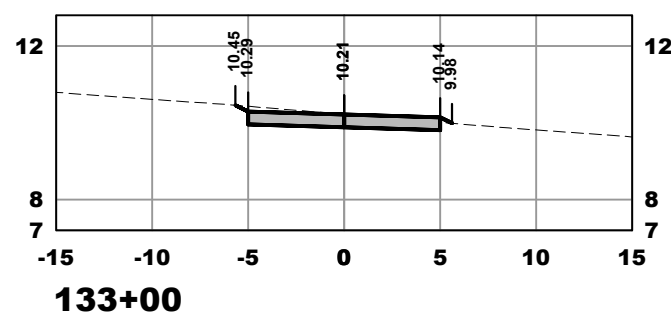


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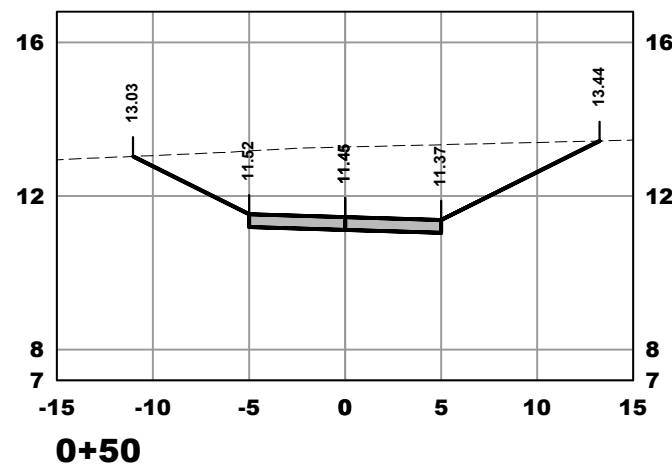
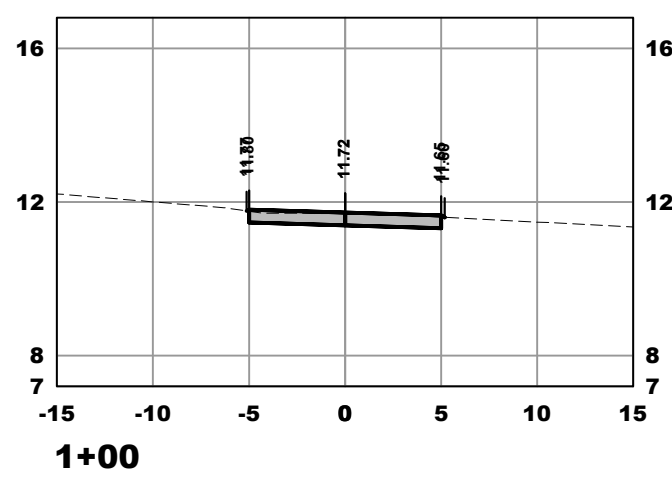
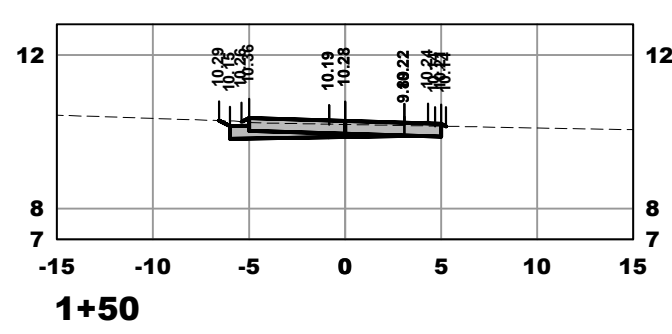
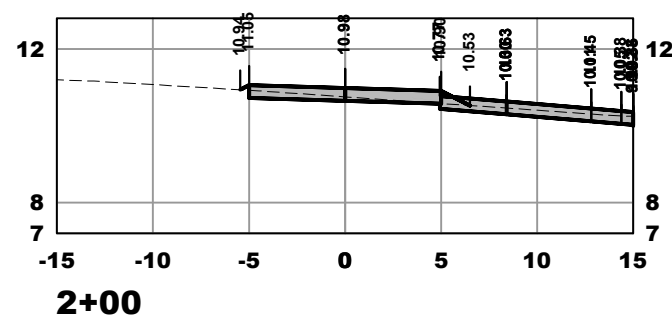
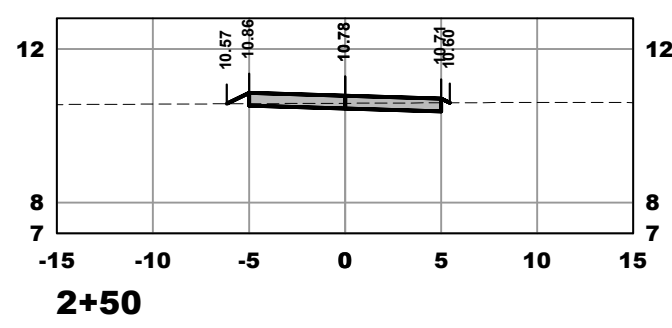
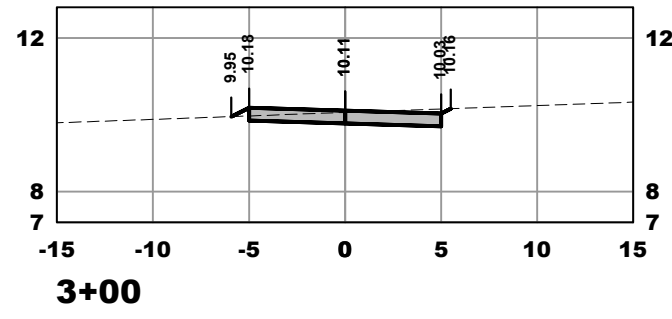


TRAIL 3 START

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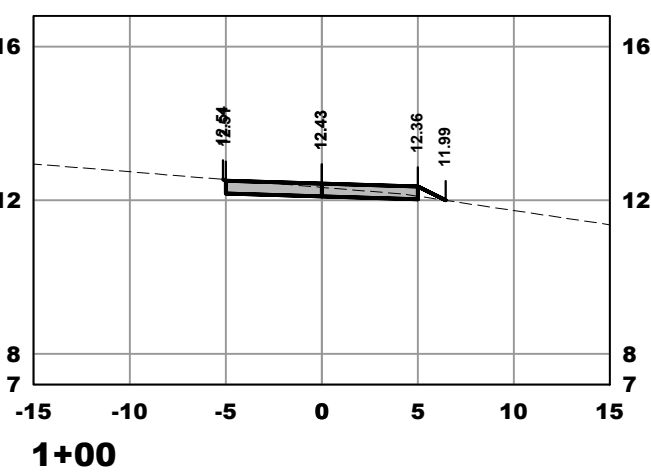
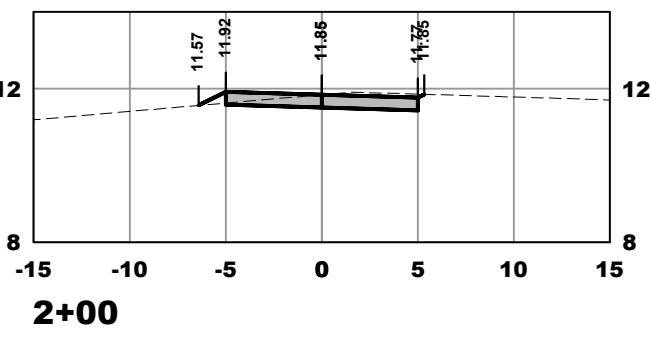


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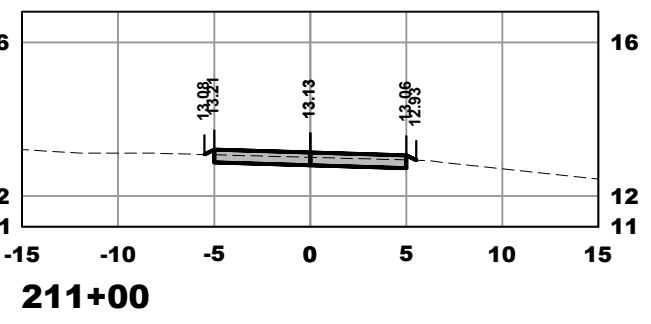
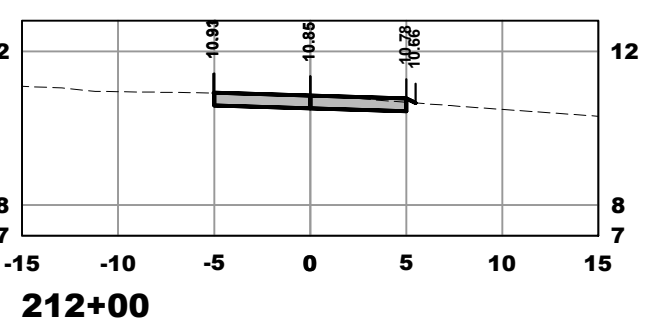
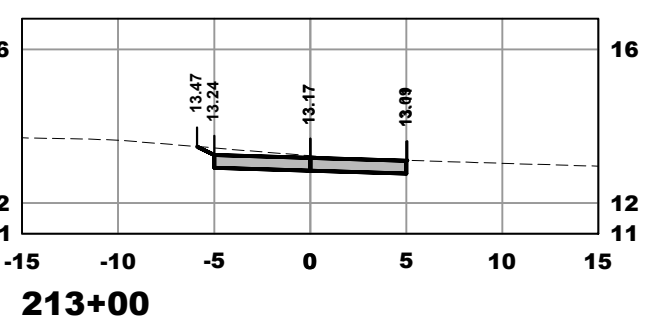
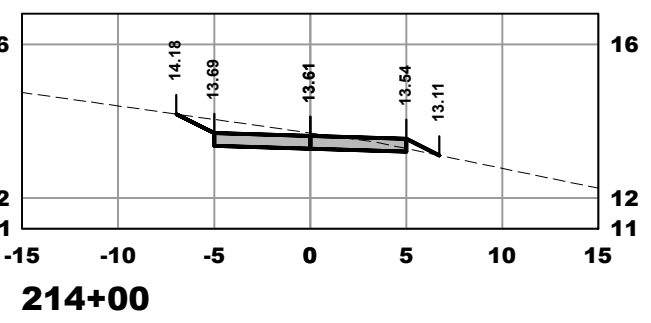
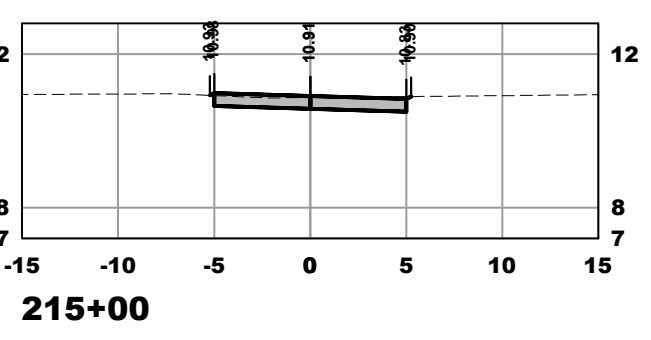
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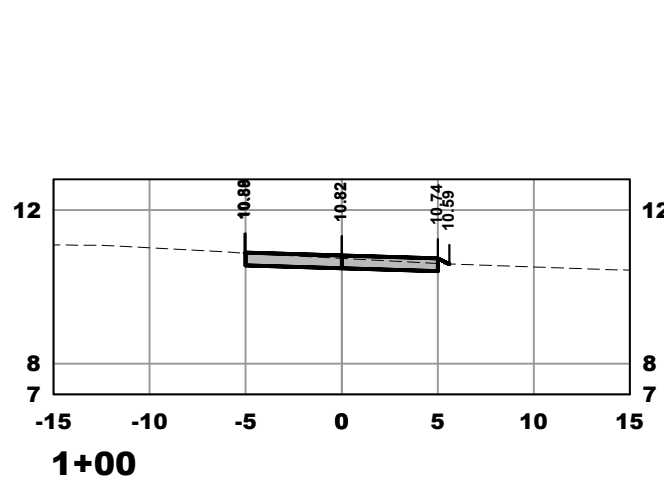
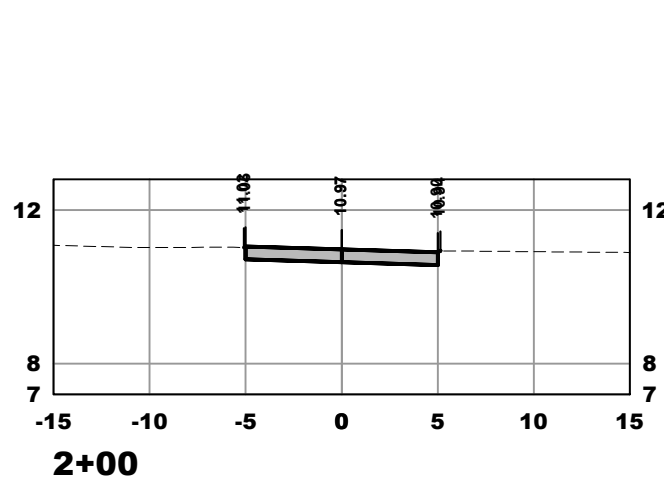
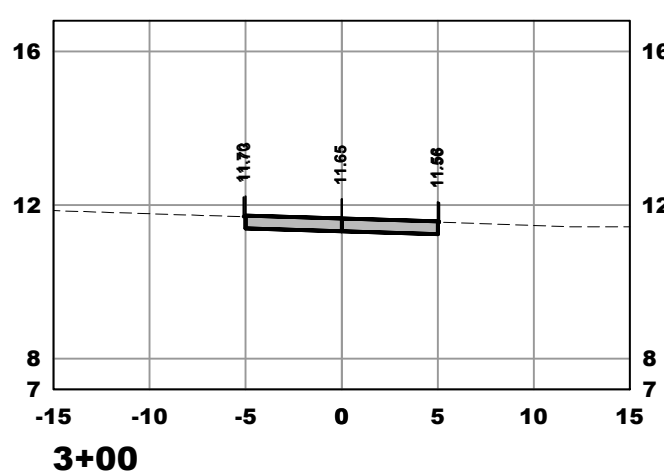
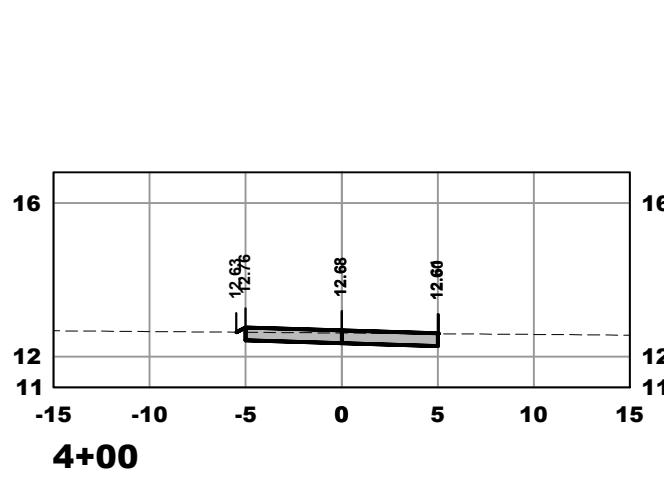
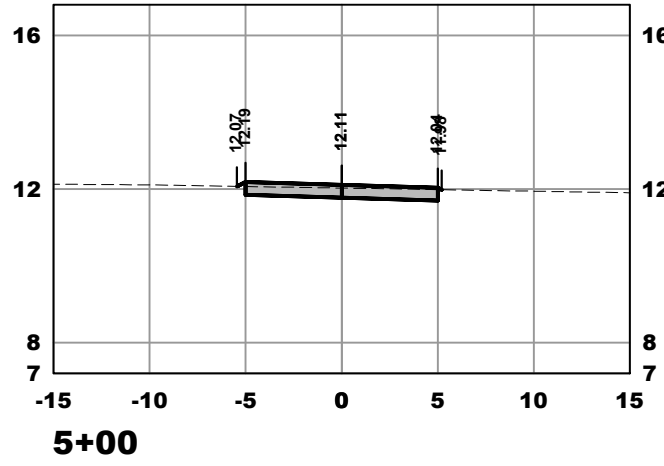


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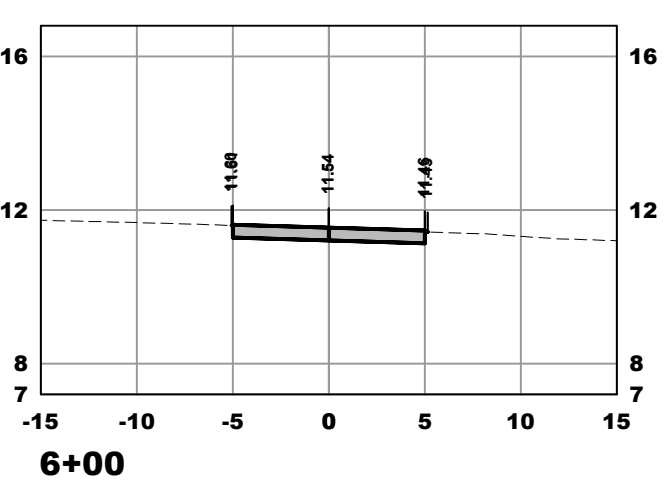
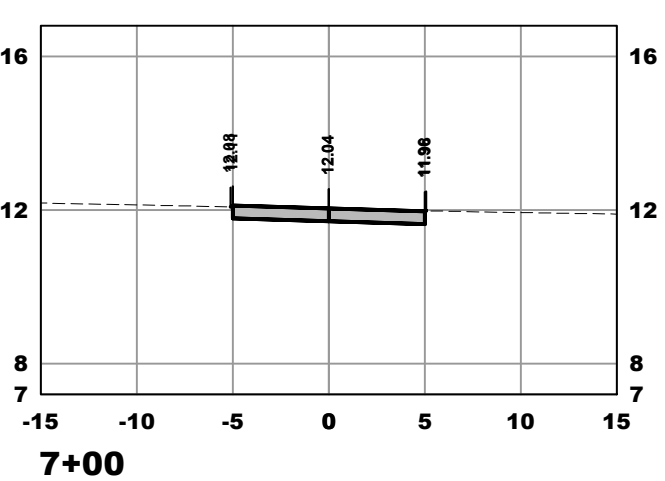
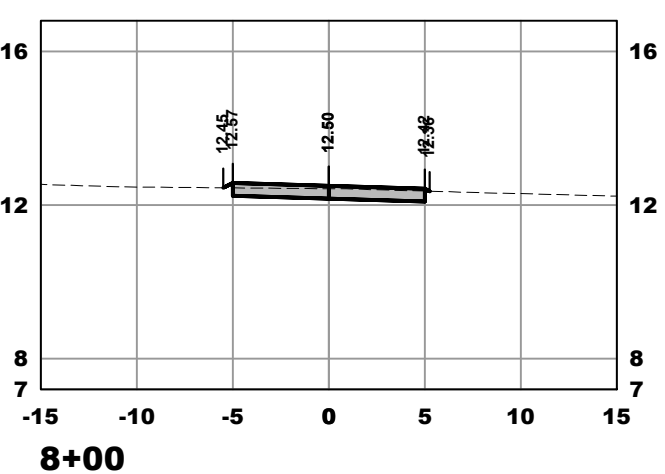
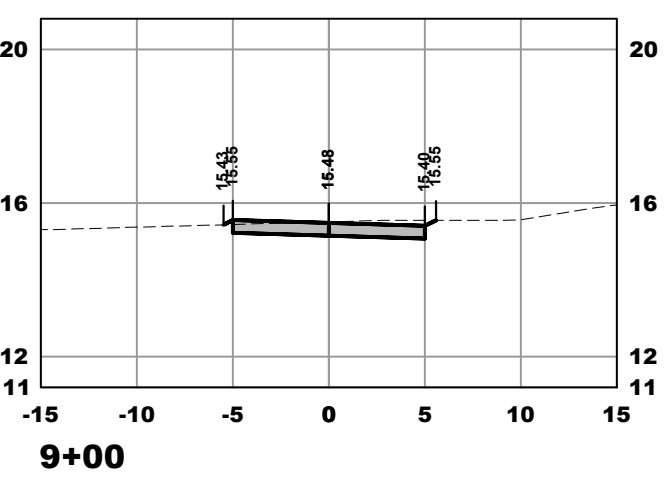
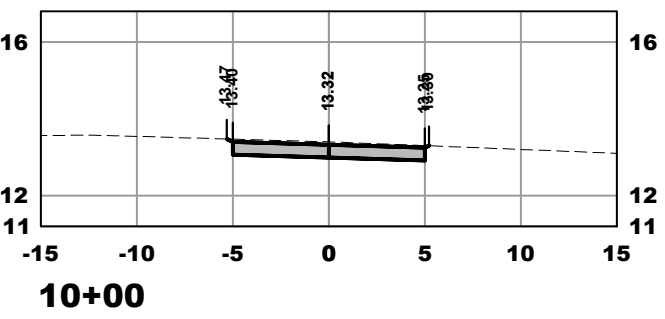


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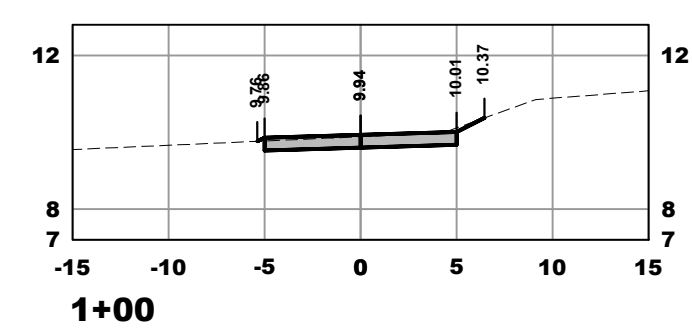
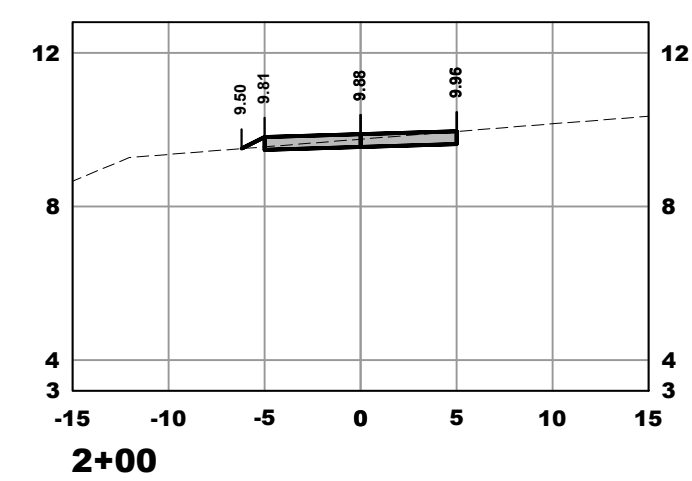
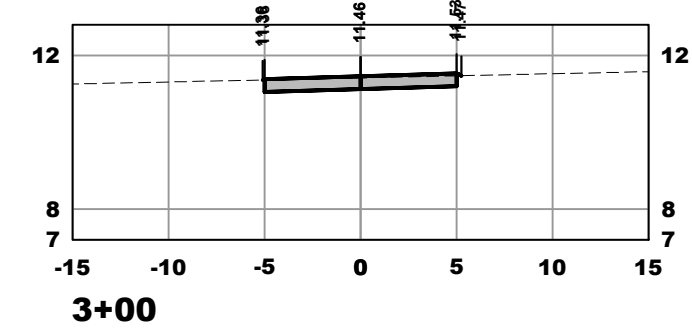


TRAIL 8 START

TRAIL 8 STOP



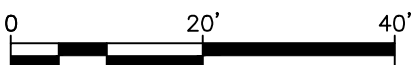
TRAIL 11 STOP



TRAIL 11 START

CPSLUSD UTILITY FILE #5001-23A

P25-021



301 N.W. Flagler Ave.
Stuart, Florida 34994
Phone: (772) 692-4344
Fax: (772) 692-4341



DATE: 07/03/2025
DRAWN BY: JFK
DESIGNED BY: CS
CHECKED BY: JWC
PROJECT No.: 1813.18.1
HORIZ. SCALE: 1" = 10'
VERT. SCALE: 1" = 5'
CADD FILE: 1813.18.1\080325.DWG

NO.	DATE	BY	REVISIONS
1	07/03/2025	JFK	100% BID SET

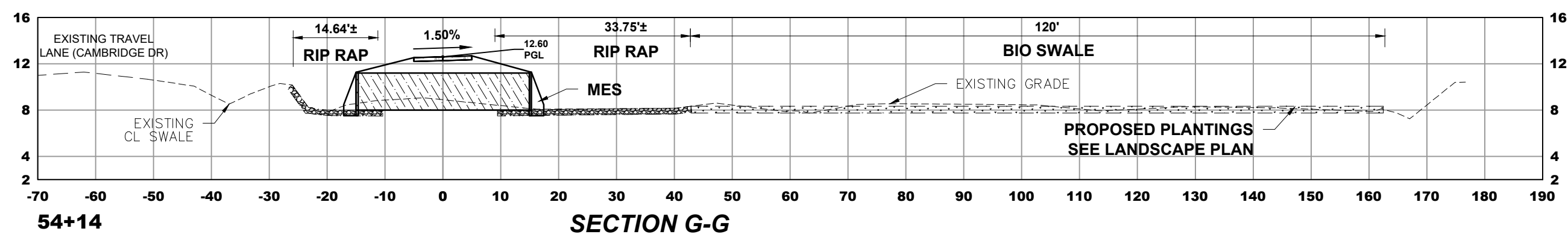
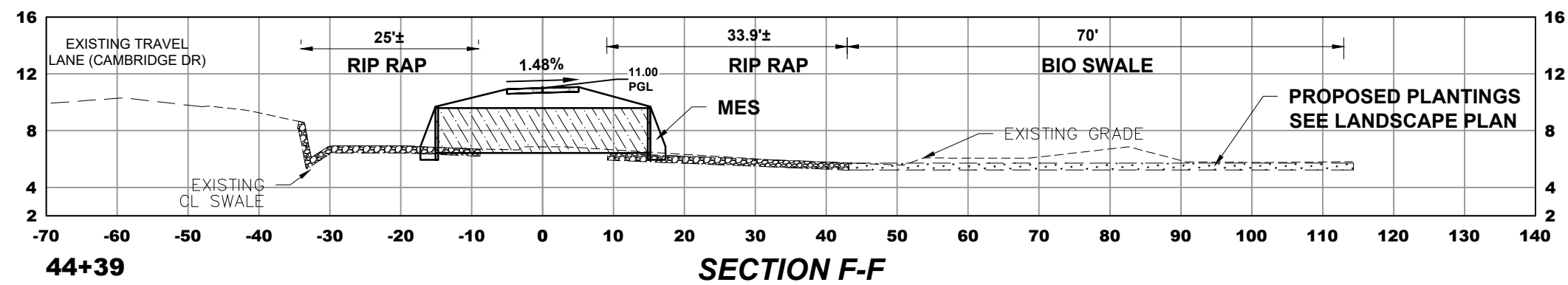
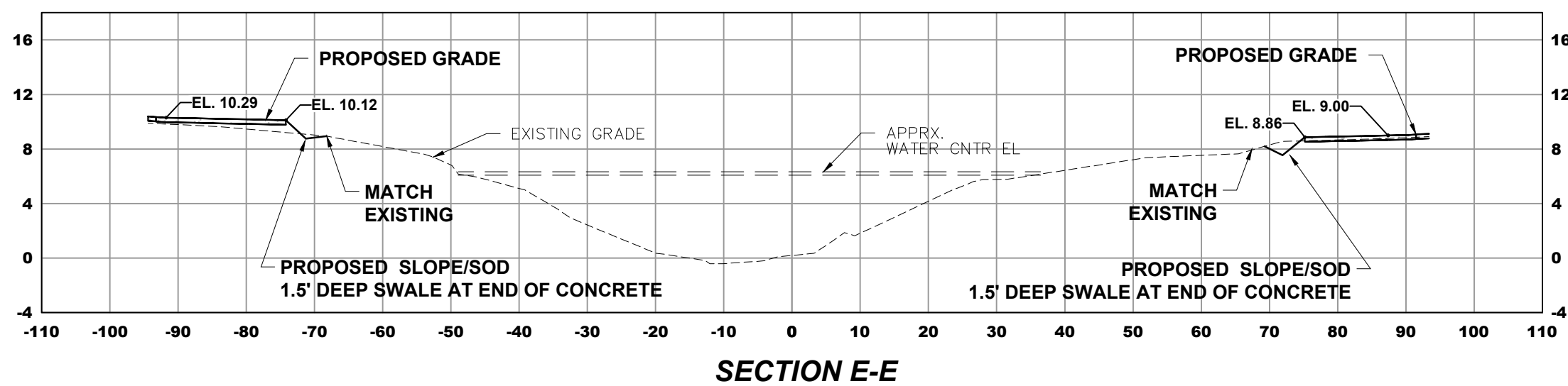
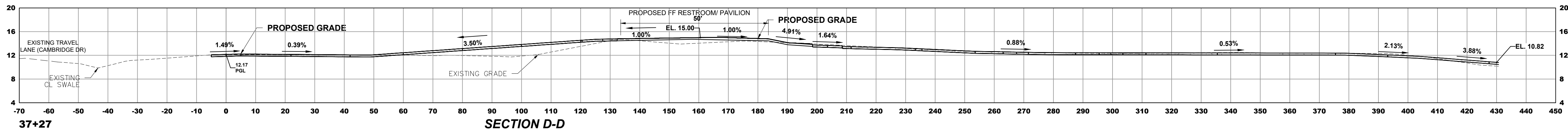
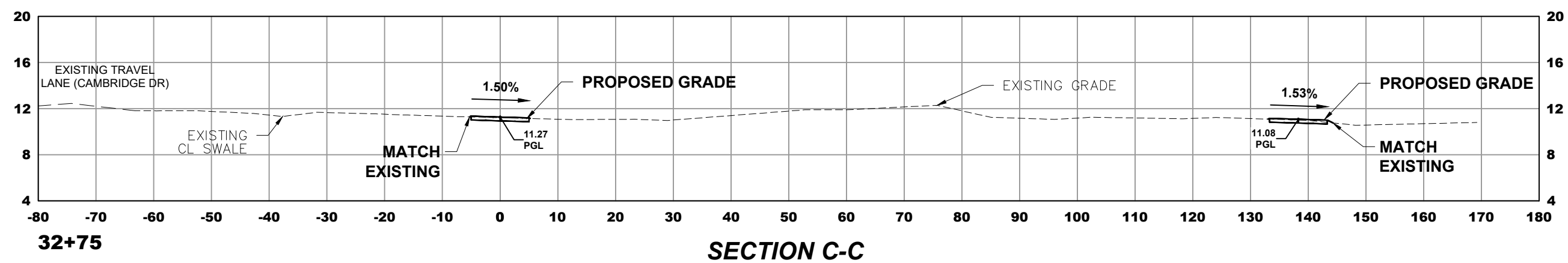
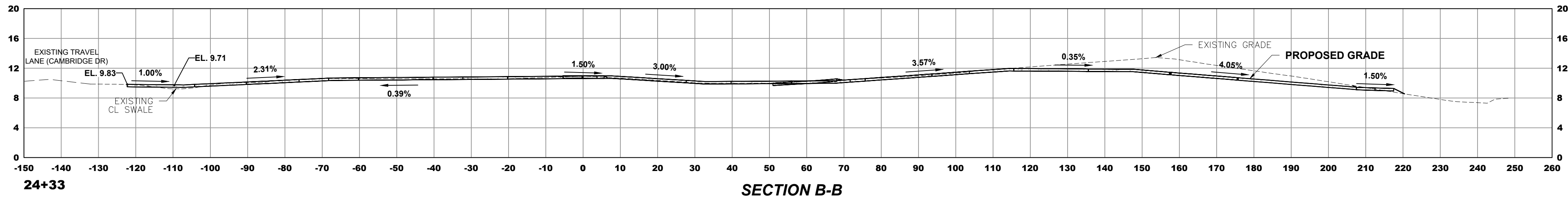
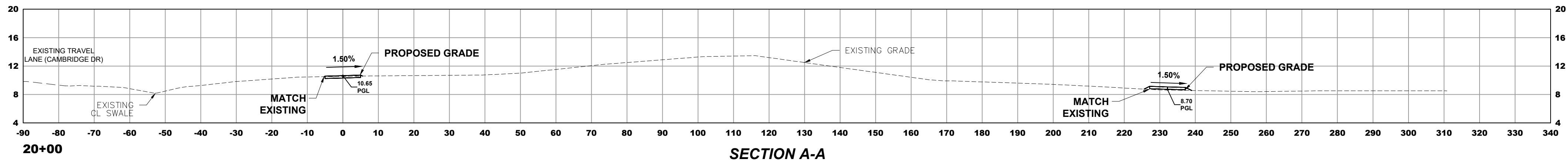
SCALE VERIFICATION
1
SOLID BAR IS EQUAL
ORIGINAL DRAWING
ADJUST ALL SCALED
DIMENSIONS
ACCORDINGLY

WILDERNESS TRAIL
MULTI USE PATH
PORT ST. LUCIE
CROSS SECTIONS

JOSEPH W. CAPRA
301 N.W. Flagler Ave.
Stuart, Florida 34994
P.E. No. 37638

Printed Date:
JOB No. 1813.18.1
SHEET
18 OF 22

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SEE SHEET 6 OF 19 FOR LOCATIONS OF SECTIONS



DATE:	07/03/2025
DRAWN BY:	JFK
DESIGNED BY:	CS
CHECKED BY:	JWC
PROJECT No.:	1813.18.1
HORIZ. SCALE:	1"=20'
VERT. SCALE:	1"=10'
CADD FILE:	1813.18.1.00032025

NO.	DATE	BY	REVISIONS
1	07/03/2025	JFK	100% BID SET

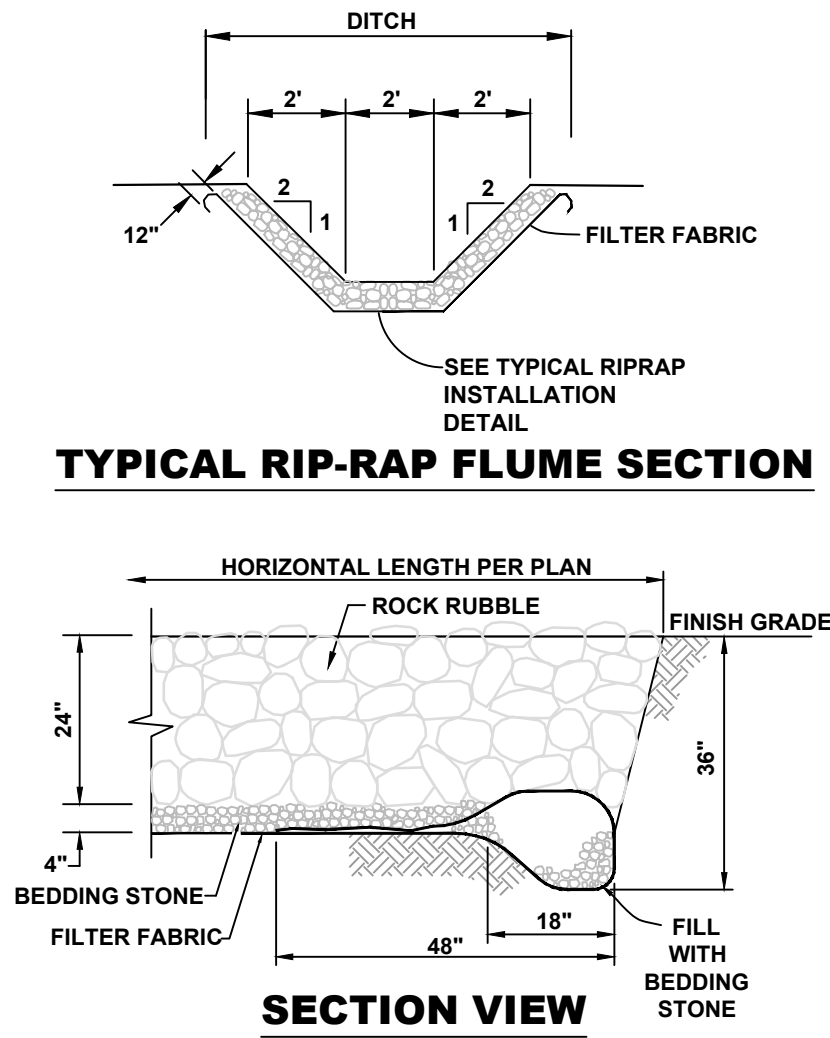
SCALE	1
VERIFICATION	0
SOLID BAR IS EQUAL	
ORIGINAL DRAWING	
ADJUST ALL SCALED	
DIMENSIONS	
ACCORDINGLY	

WILDERNESS TRAIL MULTI USE PATH PORT ST. LUCIE	SECTIONS
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JOSEPH W. CAPRA 301 N.W. Flagler Ave. Stuart, Florida 34994 P.E. No. 37638	Printed Date:
JOB No. 1813.18.1 SHEET 19 OF 22	

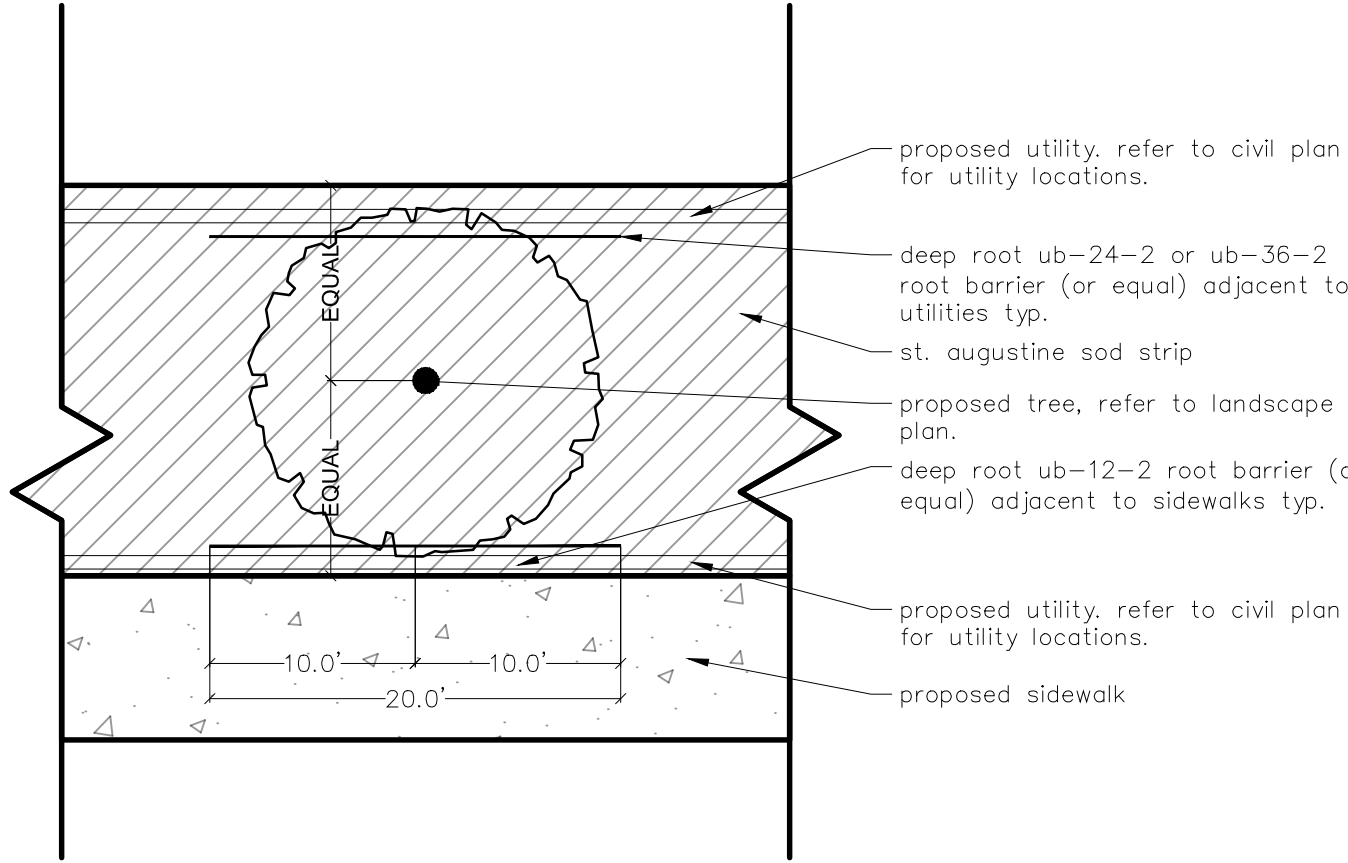
CPSLUSD UTILITY FILE #5001-23A

P25-021



- NOTES:**
1. INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 530-1 OF THE FDOT SPECIFICATIONS. THE AREAS TO RECEIVE RIPRAP SHALL BE LINED WITH FILTER FABRIC AND 4" INCHES OF BEDDING STONE. ROCK RUBBLE SHALL BE PLACED IN 2 LAYERS FOR A TOTAL DEPTH OF 24" TO PRODUCE A REASONABLY WELL GRADED MASS OF STONE WITH THE MINIMUM PRACTICAL PERCENTAGE OF VOIDS.
 2. THE ROCK RUBBLE SHALL BE BROKEN STONE CONFORMING TO SECTION 530.2.1.3 OF THE FDOT SPECIFICATIONS. BROKEN CONCRETE SHALL NOT BE ALLOWED.
 3. THE BEDDING STONE SHALL CONFORM TO SECTION 901-1 OF THE FDOT SPECIFICATIONS FOR NUMBER 4 COURSE AGGREGATE.
 4. THE CONTRACTOR SHALL USE TYPE D-2 FABRIC.

TYPICAL RIPRAP INSTALLATION
N.T.S.

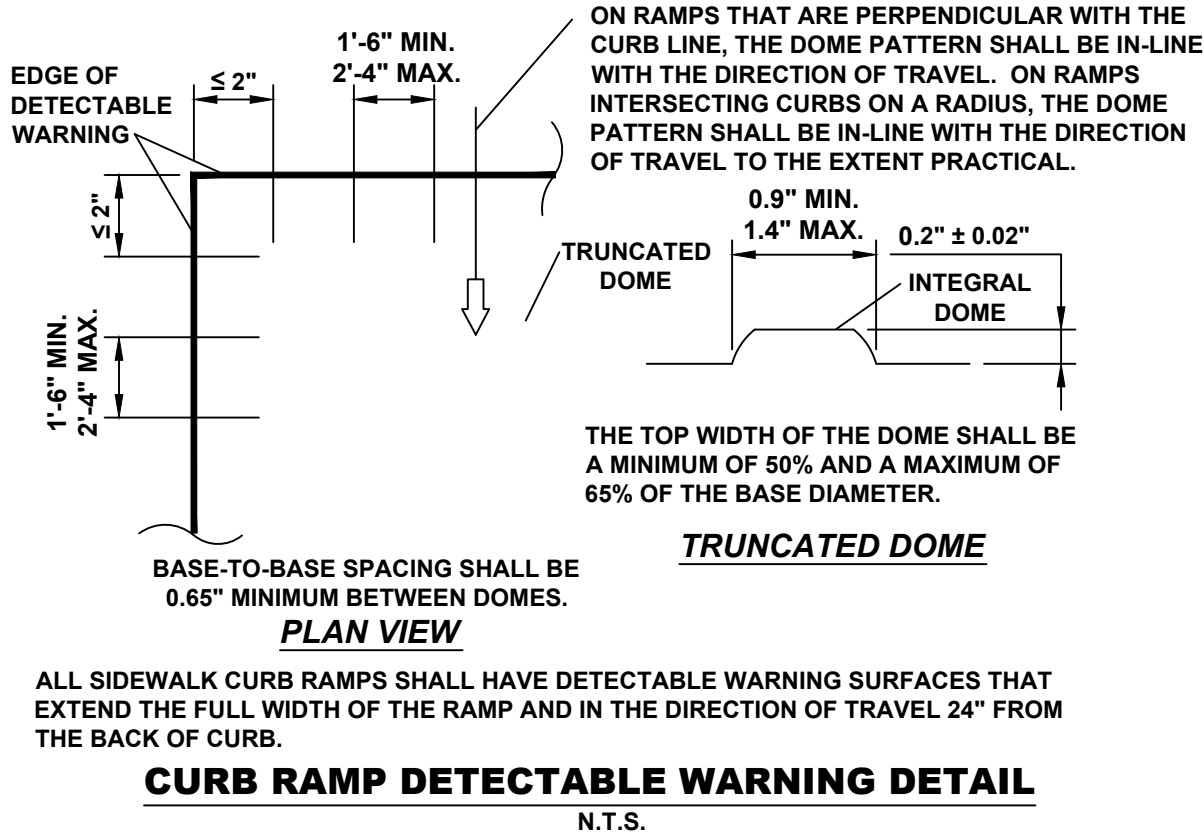


TREE PLACEMENT
-CENTER THE NEW TREES IN THE SOD AREA PER THE DETAIL ABOVE

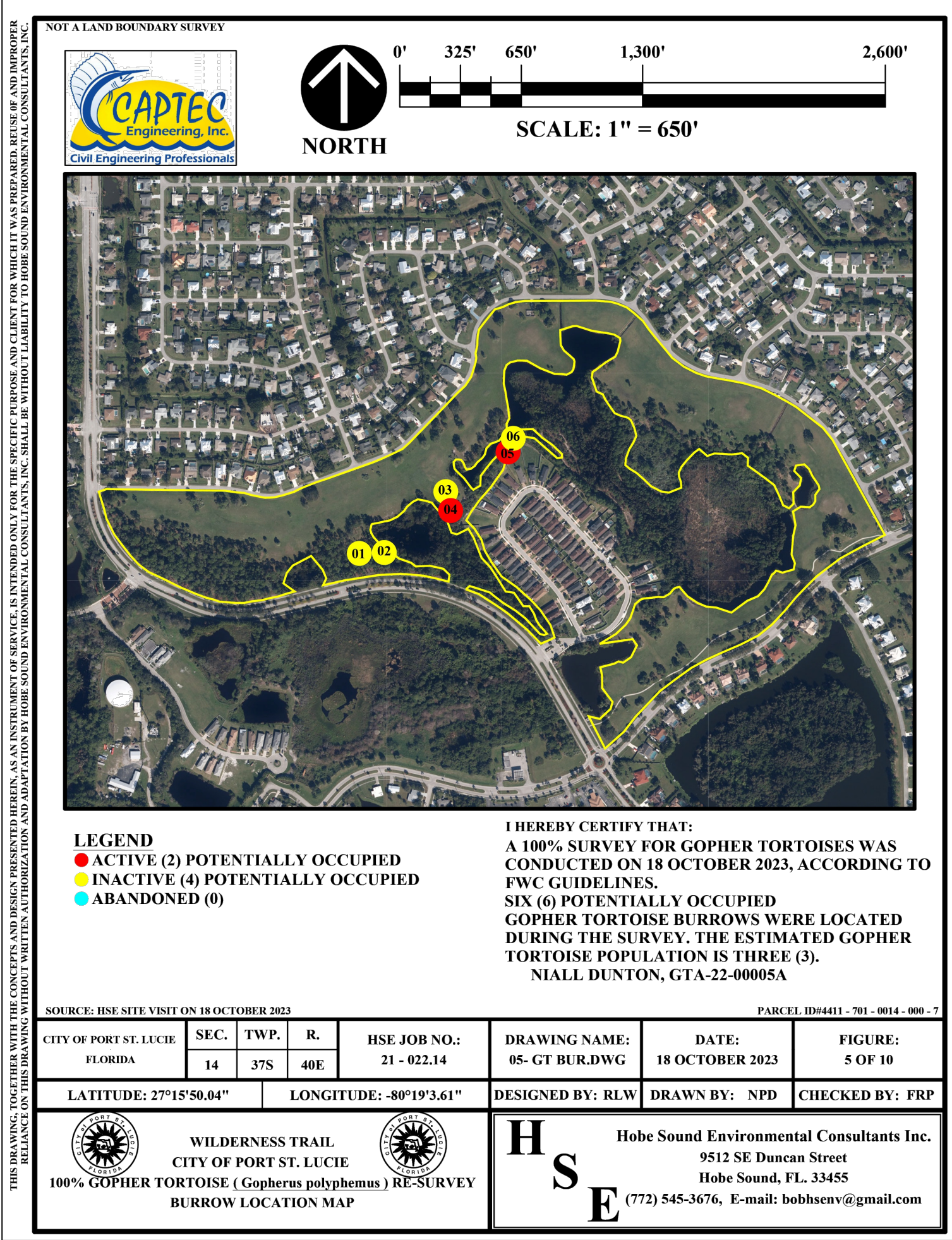
root barrier requirements (deeproot or equal)
adjacent to utilities 8" in diameter or smaller: deeproot ub-24-2
adjacent to utilities greater than 9" in diameter: deeproot ub-36-2
adjacent to sidewalks: deeproot ub-12-2

install "deeproot" root barriers per the manufacturer's specifications

ROOT BARRIER DETAIL



CURB RAMP DETECTABLE WARNING DETAIL
N.T.S.



NOTES: GOPHER TORTOISE INFORMATION

90 DAY PRIOR TO CONSTRUCTION CONTRACTOR TO SURVEY AND LOCATE TORTOISE LOCATIONS

CONSTRUCTION OF TRAILS AND FACILITIES MUST TAKE PLACE OUTSIDE OF A 25' RADIUS FROM ANY GOPHER TORTOISE BURROW. IF A 25' RADIUS CANNOT BE MAINTAINED THEN A RELOCATION PERMIT FROM FFWCC TO RELOCATE THE TORTOISES TO AN APPROVED TORTOISE MITIGATION BANK(OTMB) WILL BE REQUIRED. SILT FENCES WILL NEED TO BE INSTALLED TO PROTECT THE TORTOISES FROM HARM AND MUST BE APPROVED BY FFWCC PRIOR TO ONSET OF CONSTRUCTION. IF CONSTRUCTION DOES NOT BEGIN WITHIN 90 DAYS OF THE INITIAL SURVEY, IT IS RECOMMENDED TO HAVE AN ADDITIONAL GOPHER TORTOISE SURVEY CONDUCTED TO ENSURE NO ADDITIONAL TORTOISES HAVE MOVED ONTO THE PROJECT SITE.

ENVIRONMENTAL TABLE				
DESCRIPTION	FOUND(YES/NO)	AGENCY CONTACT INFO	MANAGEMENT PLAN (YES/NO)	RELOCATION PLAN (YES/NO)
WETLANDS	NO			
RARE HABITAT	NO			
THREATENED SPECIES	YES	HOBE SOUND ENVIRONMENTAL	NO	NO
ENDANGERED SPECIES	NO			
SPECIES OF SPECIAL CONCERN	NO			
INVASIVE/EXOTIC VEGETATION	NO			

301 N.W. Flagler Ave.
Stuart, Florida 34994
Phone: (772) 692-4344
Fax: (772) 692-4341

CAPTEC
Engineering, Inc.
Civil Engineering Professionals

Engineering Business
No. EB-007657

DATE:	07/03/2025
DRAWN BY:	JFK
DESIGNED BY:	CS
CHECKED BY:	JWC
PROJECT No.:	1813.18.1
HORZ. SCALE:	N/A
VERT. SCALE:	N/A
CADD FILE:	1813181810

NO.	DATE	BY	REVISIONS
1	07/03/2025	JFK	100% BID SET

SCALE VERIFICATION

1
0

SOLID BAR IS EQUAL TO ORIGINAL DRAWING. ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

WILDERNESS TRAIL MULTI USE PATH
PORT ST. LUCIE

DETAILS

JOSEPH W. CAPRA
301 N.W. Flagler Ave.
Stuart, Florida 34994
P.E. No. 37638

Printed Date:

JOB No. **1813.18.1**
SHEET
20 OF **22**

MINIMUM SEPARATION BETWEEN PSLUSD FACILITIES AND OTHER UTILITIES

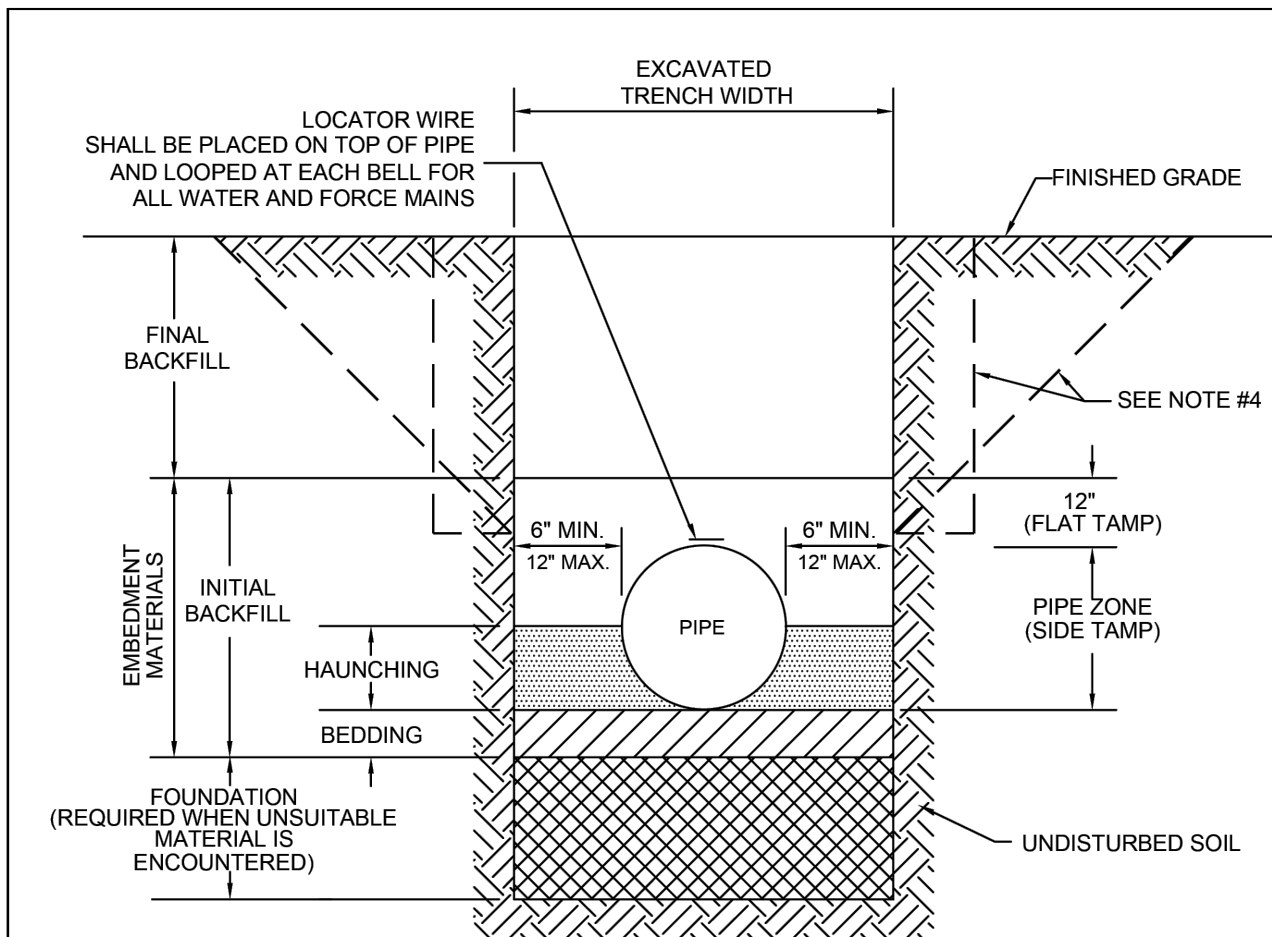
OTHER PIPE	HORIZONTAL SEPARATION	CROSSINGS (1)	JOINT SPACING @ CROSSINGS (FULL JOINT CENTERED)
GRAVITY OR PRESSURE SANITARY SEWER, SANITARY SEWER FORCE MAIN, RECLAIMED WATER (2), (3), VACUUM SANITARY SERVICE, STORM SEWER, STORM SEWER FORCE MAIN	WATER MAIN 10' MINIMUM	WATER MAIN 18' MINIMUM	6' MINIMUM WATER MAIN
ALL OTHER FACILITIES, INCLUDING BUT NOT LIMITED TO: TELEPHONE, CABLE TV, POWER, ETC.	(4) PSLUSD FACILITY 5' MINIMUM	PSLUSD FACILITY (4) 18' MINIMUM	3' MINIMUM WATER MAIN
ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM	10' MINIMUM	-----	-----

(1) WATER MAIN SHOULD CROSS OVER OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 18".

(2) RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

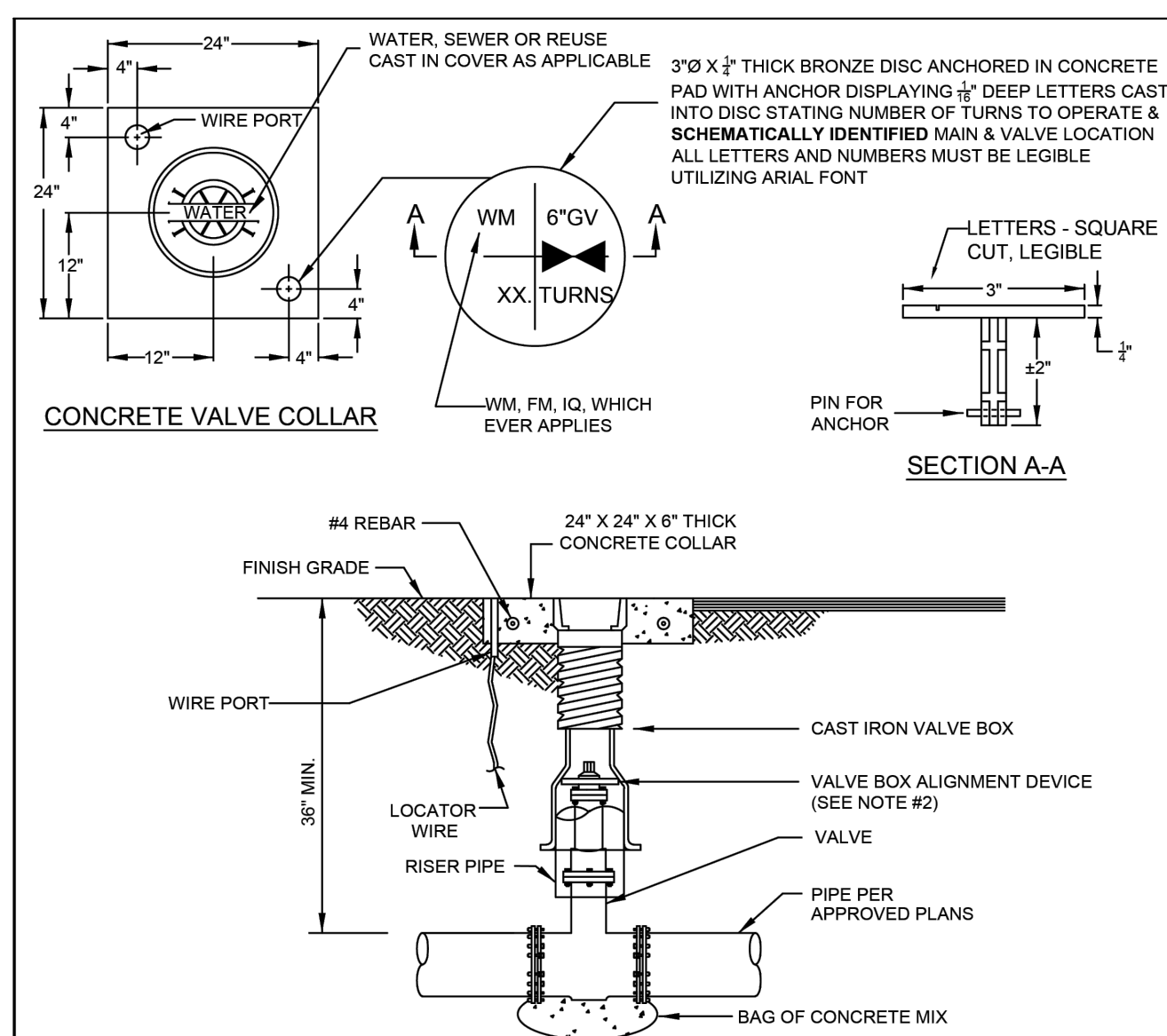
(3) RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

(4) A PSLUSD FACILITY INCLUDES MAINS AND STRUCTURES FOR POTABLE WATER, WASTEWATER AND RECLAIMED WATER.



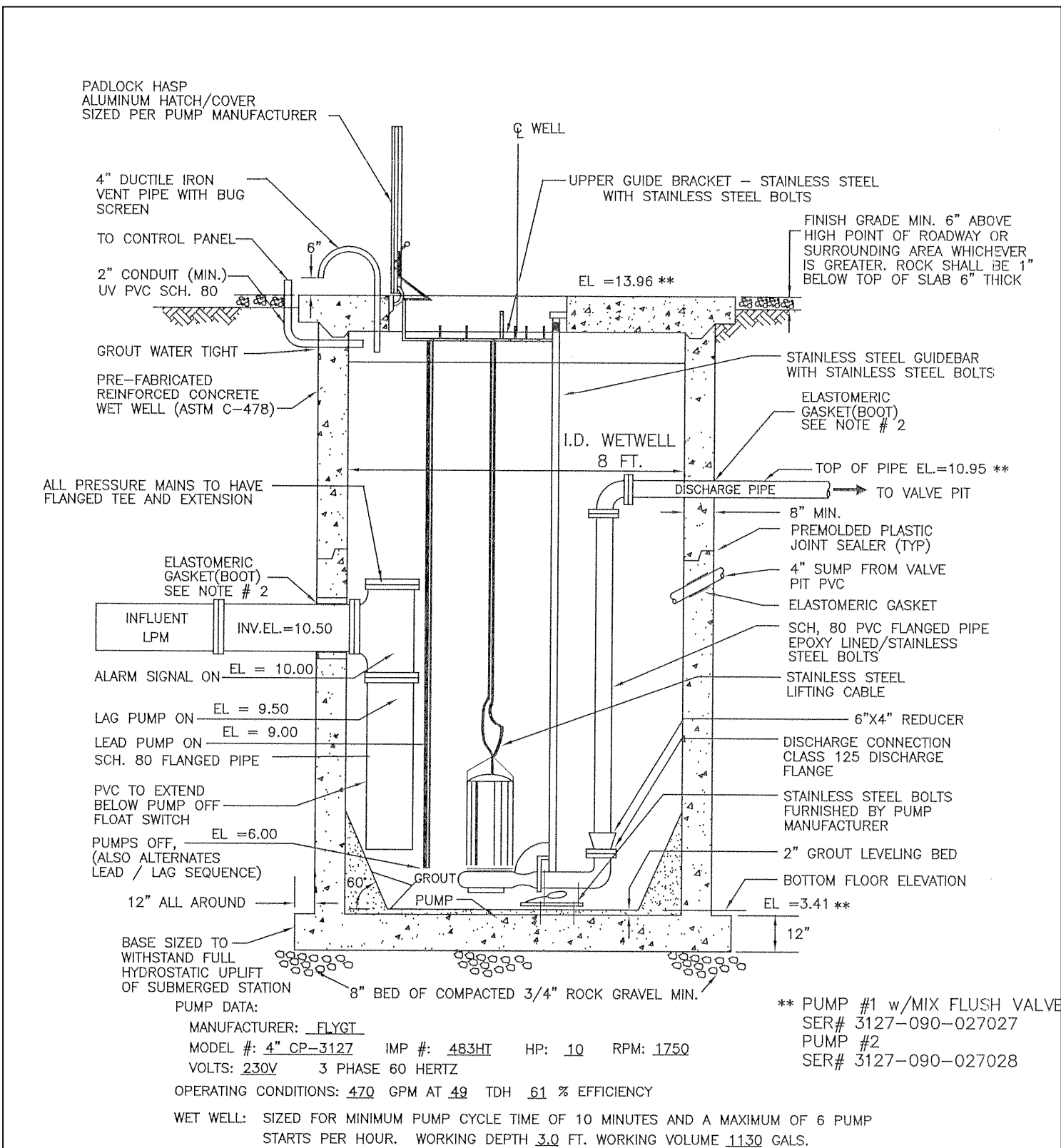
- NOTES:**
1. FOR TRENCHES REQUIRING SHEETING, SHORING, STAY BRACING, TRENCH JACKS OR TRENCH BOX, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SUPPORTS.
 2. IF THE MAXIMUM TRENCH WIDTH MUST BE EXCEEDED, THE AREA OUTSIDE OF THE MAXIMUM EMBEDMENT SHALL BE COMPACTED TO FINAL BACKFILL REQUIREMENTS: IF THE PIPE IS INSTALLED IN A COMPACTED EMBANKMENT, THE EMBANKMENT SHALL BE IN PLACE AND COMPACTED TO 12" MIN. COVER BEFORE INSTALLATION OF THE PIPE.
 3. IF BEDDING IS REQUIRED TO BRING TRENCH BOTTOM UP TO GRADE AND PROVIDE UNIFORM AND ADEQUATE LONGITUDINAL SUPPORT UNDER THE PIPE, THEN A MINIMUM COMPACTED DEPTH OF 4 TO 6 INCHES OF SELECT EMBEDMENT MATERIAL IS REQUIRED.
 4. THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF THE FLORIDA TRENCH SAFETY ACT.
 5. AN APPROVED LOCATOR WIRE SHALL BE USED.
 6. EARTHWORK, EXCAVATION, BACKFILL AND COMPACTION SHALL BE IN ACCORDANCE WITH PSLUSD STANDARDS.

	MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 1001 SE PINEVILLE ST. PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	STANDARD PIPE TRENCH CROSS SECTION	DETAIL: G-04
			DATE: 2024 SCALE: N.T.S. SHEET: 1 OF 1



- NOTES:
1. WHEN TOP OF OPERATING NUT IS DEEPER THAN 30", A HIGH STRENGTH STEEL EXTENSION WILL BE REQUIRED TO BRING OPERATING NUT 24"-30" BELOW FINISHED GRADE. A STEEL CENTERING PLATE, WELDED TO THE EXTENSION, IS ALSO REQUIRED.
 2. A VALVE BOX ALIGNMENT DEVICE SHALL BE PROVIDED TO ELIMINATE SHIFTING OF THE VALVE BOX AGAINST THE OPERATING NUT.
 3. C900 OR SDR-26 P.V.C. RISER PIPE SHALL BE ADDED TO EXTEND THE VALVE BOX IF NEEDED.
 4. RPM'S SHALL NOT BE INSTALLED IN CROSOWALKS OR PEDESTRIAN WALKWAYS.
 5. THE TOP SIDE OF THE VALVE BOX COVER AND THE INSIDE OF TOP SECTION OF THE VALVE BOX SHALL BE PAINTED BLUE FOR WATER MAINS, GREEN FOR SEWER MAINS AND PURPLE FOR RECLAIMED WATER MAINS.

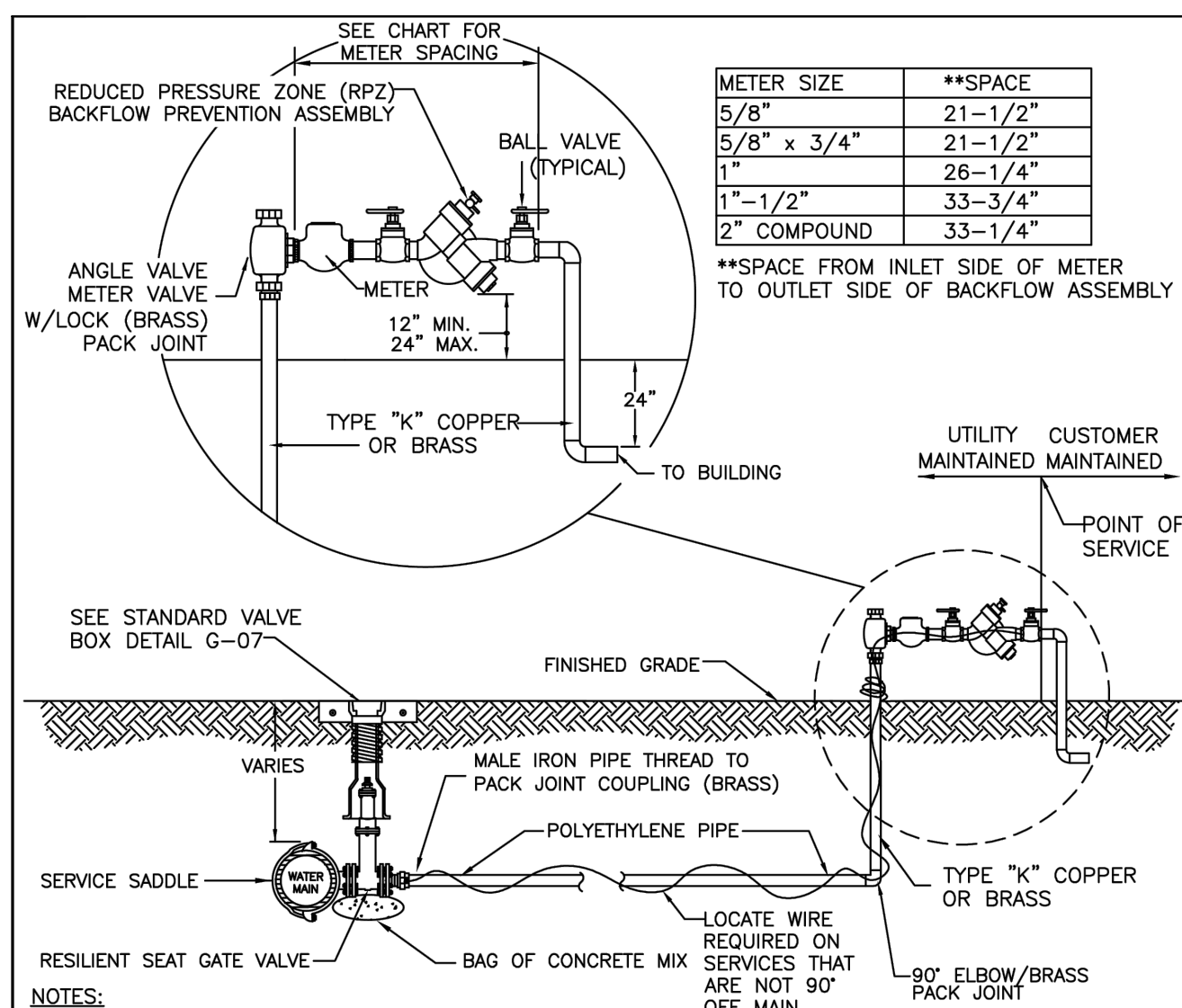
 MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 1001 PRINEVILLE ST. PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	TYPICAL VALVE BOX AND COLLAR IN UN-PAVED AREA	DETAIL: G-07
		DATE: 2024
		SCALE: N.T.S.
		SHEET: 1 OF 2



- NOTES:
1. WET WELL INTERIOR WALLS AND BOTTOM OF TOP SLAB SHALL BE PROTECTED WITH FIBERGLASS G.U. LINER AS MANUFACTURED BY G.U. FLORIDA , INC. OR APPROVED EQUAL. WET-WELL EXTERIOR AND DUCTILE IRON PIPING SHALL RECEIVE TWO (2) COATS, 16 MILS EACH, APPLICATION OF 100% SOLIDS COAT-TAR EPOXY. BOTH APPLICATIONS SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS AND CERTIFIED BY THE PRECAST MANUFACTURER.
 2. PREFABRICATED BOOT SHALL BE INSTALLED BY THE MANUFACTURER OF THE STRUCTURE.
 3. MULTITRODE SENSING PROBE TO BE USED WITH (2) SINGLE POINT PROBES FOR ALARM BACKUP.

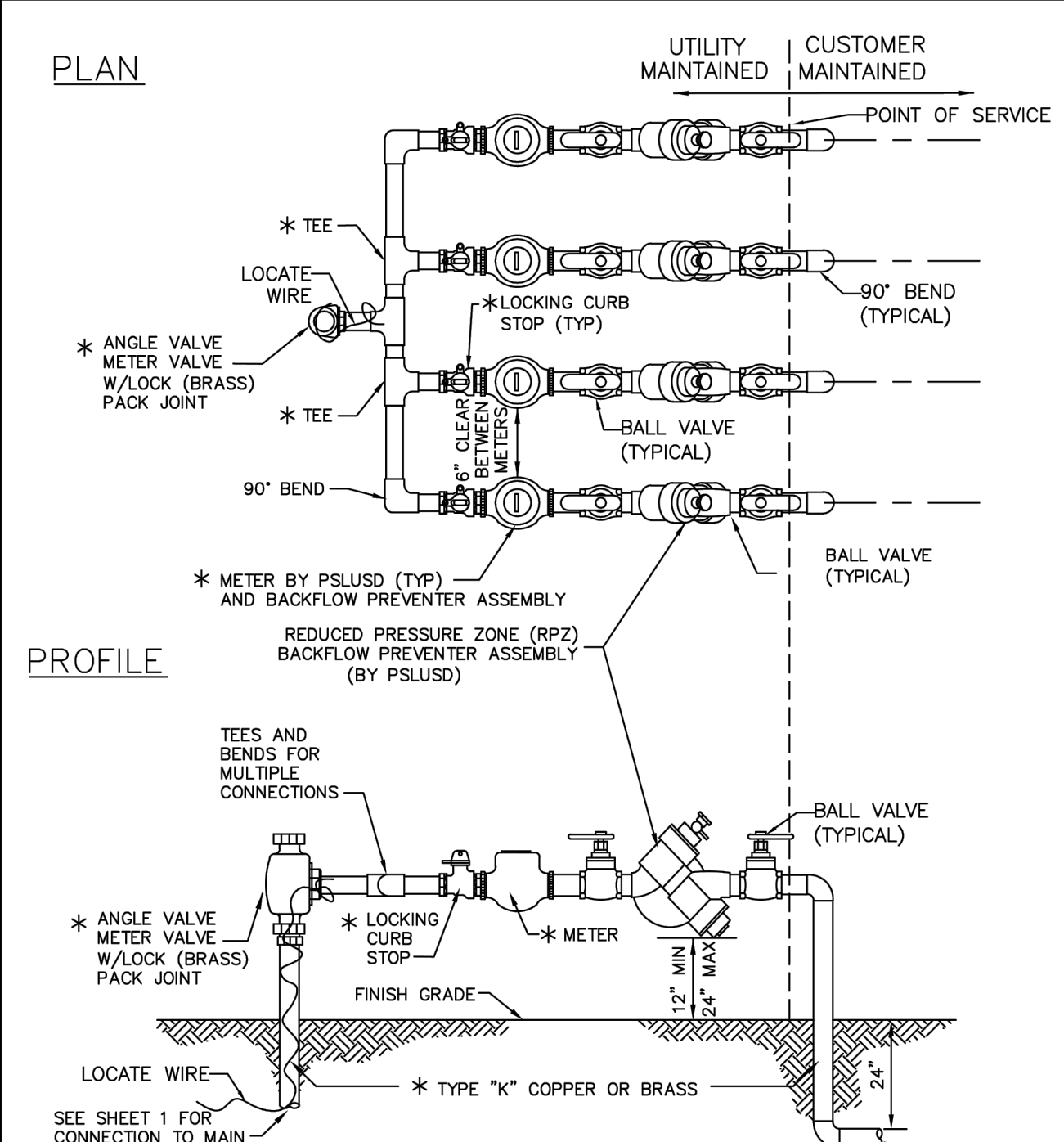
WET WELL SECTION VIEW

EXISTING WET WELL DETAIL



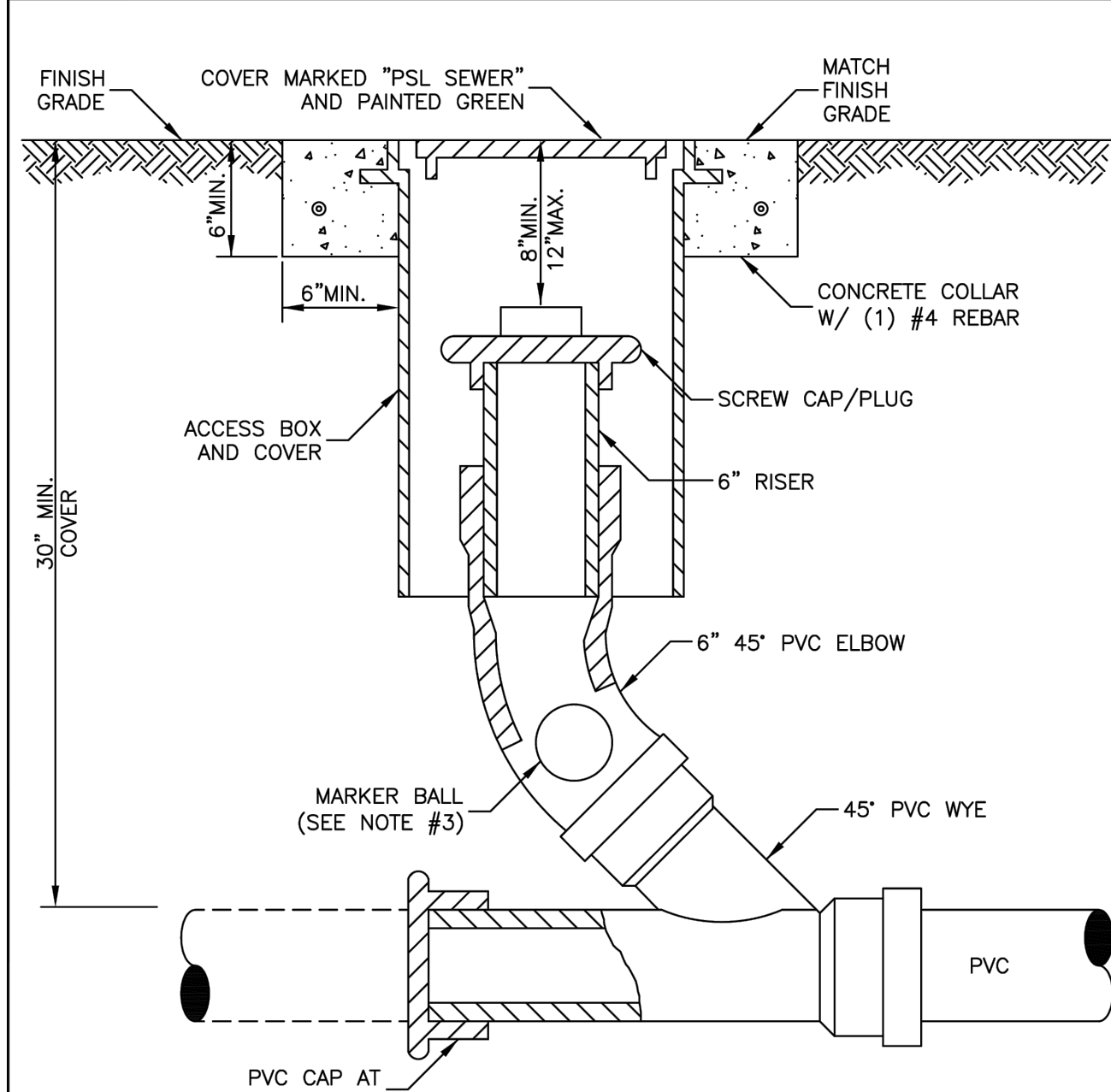
1. THE ENGINEER-OF-RECORD SHALL SIZE THE PIPE, FITTINGS, VALVES AND APPURTENANCES; THE MINIMUM SHALL BE 2" UP TO THE ANGLE VALVE. METER SIZE CALCULATIONS TO BE SUBMITTED BASED ON AWWA RECOMMENDATIONS (MANUAL M-22)
2. BOTH RISERS SHALL BE BRASS OR TYPE "K" COPPER TUBING (HARD DRAWN) WITH COPPER/BRASS THREADED FITTINGS AND ADAPTERS.
3. ADDITIONAL SUPPORT SHALL BE PROVIDED AS NECESSARY TO SECURELY SUPPORT THE BACK FLOW PREVENTION ASSEMBLY.
4. VALVE, SADDLE AND APPURTENANCES SHALL BE PER THE QUALIFIED PRODUCTS LIST.
5. METERS AND BACKFLOW PREVENTERS 2" OR SMALLER SHALL BE INSTALLED BY PSLUSD. SEE SHEET 2 FOR MULTI-SERVICE METER BANK ASSEMBLY.
6. AT THE DIRECTION OF THE PSLUSD, BOLLARDS MAY BE REQUIRED TO PREVENT DAMAGE FROM ACCIDENTS. REFER TO DETAIL G-15 FOR BOLLARD INSTALLATION.

 MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 1001 SE PRINCEVILLE ST. PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	COMMERCIAL WATER SERVICE CONNECTION	DETAIL: W-02
		DATE: 2024
		SCALE: N.T.S.
		SHEET: 1 OF 2



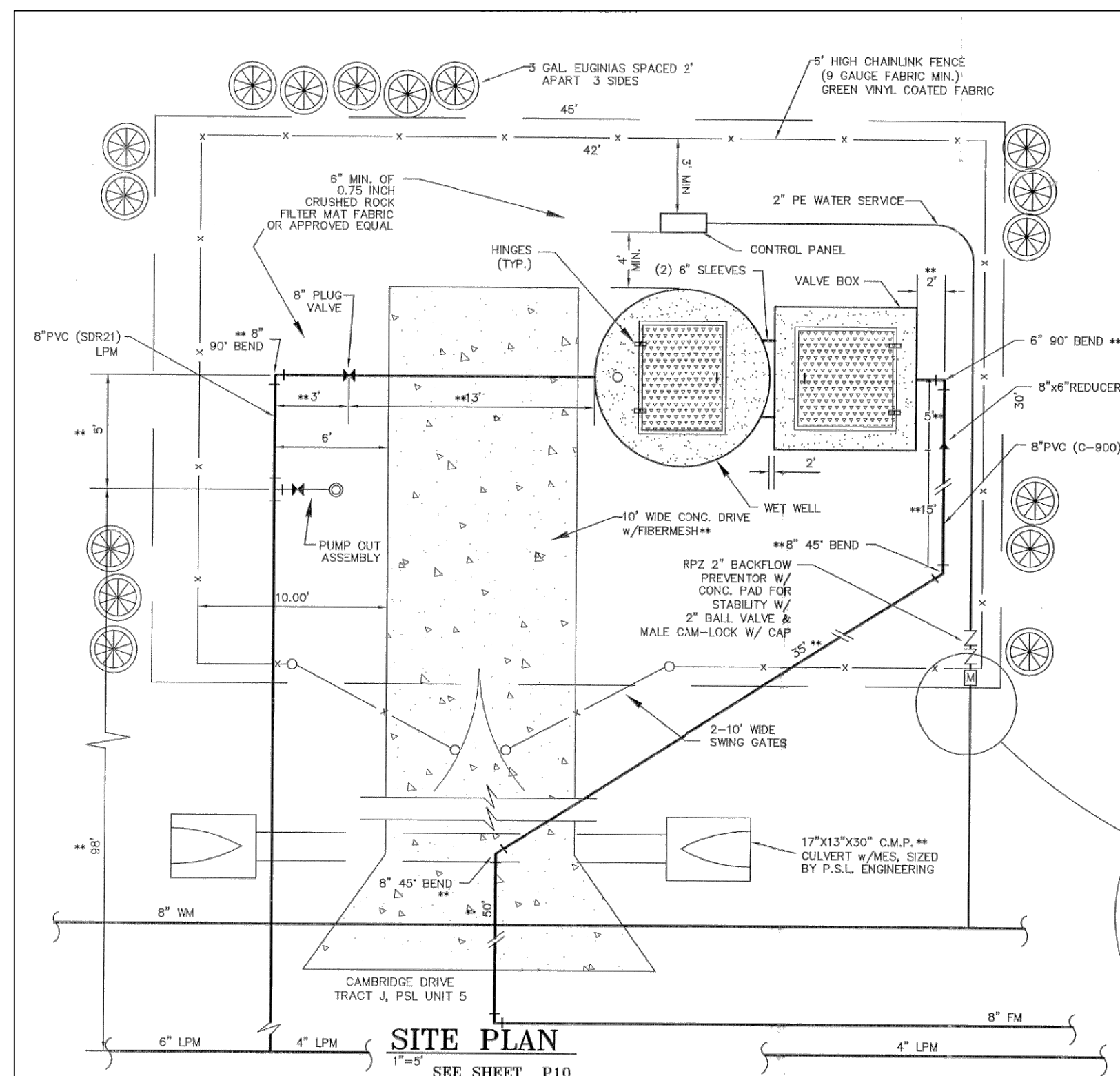
- * ENGINEER-OF-RECORD TO CALCULATE PIPE AND FITTING SIZES TO ACCOMMODATE NUMBER OF & SIZE OF METER PROPOSED. THE NUMBER OF METERS SHALL BE A MAXIMUM OF 4 AND THE MINIMUM SIZE SERVICE SHALL BE 2".

	MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 1001 SE PRINEVILLE ST. PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	COMMERCIAL MUTIL-SERVICE METER BANK ASSEMBLY	DETAIL: W-02 DATE: 2024 SCALE: N.T.S. SHEET: 2 OF 2



- TERMINUS
- NOTES:
1. AN ACCESS BOX AND COVER SHALL BE USED.
 2. CLEANOUT ASSEMBLY SHALL BE INSTALLED AT A MAXIMUM 75' INTERVALS AND AT TERMINAL POINT OF THE PSLUSD RESPONSIBILITY. THE LOCATION SHALL BE IN ACCORDANCE WITH THE PSLUSD UTILITY STANDARDS.
 3. MARKER BALL SHALL BE STRAPPED TO THE ELBOW.

 MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 1001 SE PRINEVILLE ST. PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	SANITARY SEWER CLEANOUT	DETAIL: WW-05
		DATE: 2024
		SCALE: N.T.S.
		SHEET: 1 OF 1



EXISTING WET WELL DETAIL

CPSLUSD UTILITY FILE #5001-23A

DATE:	07/03/2025
DRAWN BY:	JFS
DESIGNED BY:	CSC
CHECKED BY:	JWC
PROJECT NO.:	1613.16.1
HORIZ. SCALE:	1" = 20'
VERT. SCALE:	N/A
DATE FILED:	07/03/2025

[illegible]

**SCALE
VERIFICATION**

0  1

SOLID BAR IS EQUAL
TO ONE INCH ON
ORIGINAL DRAWING.
ADJUST ALL SCALED
DIMENSIONS
ACCORDINGLY

WILDERNESS TRAIL MULTI USE PATH PORT ST. LUCIE

JOSEPH W. CAPRA
301 N.W. Flagler Ave.
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P.E. No. 37638

Printed Date:

JOB No. 1813.18.1
SHEET
22 OF 22