

GENERAL NOTES:

- ALL ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH FDOT SPECIFICATIONS, LATEST EDITION AND LOXAHATCHEE RIVER DISTRICT STANDARD SPECIFICATIONS, LATEST EDITION. ALL MATERIALS SHALL CONFORM TO THE CURRENT APPROVED PRODUCTS LIST OF LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT (THE DISTRICT). WORK WITHIN TOWN OF JUPITER'S RIGHTS-OF-WAY SHALL ALSO COMPLY WITH TOWN OF JUPITER STANDARDS, LATEST EDITION.
- ALL PROPOSED GRADES SHOWN ARE FINISHED GRADES, UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL SLOPE FINISHED GRADES UNIFORMLY BETWEEN OTHER FINISHED AND EXISTING GRADES AND IN SUCH A MANNER TO PREVENT STORMWATER PONDING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVAL, DISPOSAL, ABANDONMENT, AND RELOCATIONS NECESSARY TO COMPLETE THE WORK WHETHER SHOWN ON THE DRAWINGS OR NOT. CONTRACTOR SHALL COORDINATE RELOCATIONS WITH THE NECESSARY UTILITY COMPANIES.
- CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY THE CONTRACTOR'S ACTIVITIES INVOLVING CONSTRUCTION, STAGING AREAS, AND ACCESS ROADS IN KIND. ALL DISTURBED NON-PAVED AREAS SHALL BE PLANTED WITH "IN-KIND" VEGETATION.
- CONTRACTOR SHALL SUBMIT AN M.O.T. PLAN CONFORMING TO THE REQUIREMENTS OF THE TOWN OF JUPITER (FOR OLD DIXIE HWY) AND FDOT INDEX NO. 102-600, AND AS REQUIRED IN THE PROJECT SPECIFICATIONS. THE PLAN SHALL PROVIDE FOR TWO-WAY TRAFFIC FLOW AT ALL TIMES. CONTRACTOR SHALL FOLLOW THE APPROVED PLAN THROUGHOUT PROJECT DURATION. ACCESS TO PRIVATE PROPERTIES AND PUBLIC SIDE STREETS SHALL BE PROVIDED AT ALL TIMES.
- CONTRACTOR SHALL SUBMIT A PROPOSED PHASING PLAN SHOWING BOTH CONSTRUCTION AND MAINTENANCE OF TRAFFIC PHASING.
- CONTRACTOR SHALL COORDINATE WITH THE NECESSARY UTILITY COMPANIES AND SUNSHINE 811 (811 OR 1-800-432-4770) FOR ALL UTILITY LOCATES 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- PRIOR TO COMMENCEMENT OF ANY EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH CHAPTER 556 OF THE FLORIDA STATUTES: THE UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT.
- CONTRACTOR SHALL MAINTAIN A NEAT, ORDERLY, AND SAFE SITE AT ALL TIMES.
- ALL SURVEY MONUMENTS WITHIN LIMITS OF CONSTRUCTION ARE TO BE PROTECTED. IF IN DANGER OF DAMAGE THE CONTRACTOR SHALL NOTIFY: NATIONAL GEODETIC INFORMATION SERVICES CENTER NOAA NATIONAL GEODETIC SURVEY, N/CG 17 SSMC 3, STATION 09202 SILVER SPRING, MARYLAND 20910 TELEPHONE NO. (301) 713-3242.
- CONTRACTOR SHALL APPLY FOR AND COMPLY WITH THE REQUIREMENTS OF THE FDEP GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION SITES.
- CONTRACTOR SHALL UTILIZE CONSTRUCTION METHODS AND DEVICES SUCH AS SILT FENCES AND INLET PROTECTION WHERE NECESSARY IN ORDER TO COMPLY WITH THE STATE AND LOCAL WATER QUALITY STANDARDS AND NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (N.P.D.E.S.) REQUIREMENTS. CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER FOR REVIEW A STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
- ALL WORK SHALL BE OPEN AND SUBJECT TO INSPECTION BY AUTHORIZED PERSONNEL OF THE DISTRICT, ALL INVOLVED UTILITY COMPANIES, THE PROJECT ENGINEER AND ALL REGULATORY AGENCIES.
- WHERE EXCAVATIONS TO A DEPTH IN EXCESS OF FIVE FEET (5') ARE REQUIRED, THE CONTRACTOR SHALL INCLUDE THE FOLLOWING INFORMATION IN THE BID:
 - REFERENCE TO THE TRENCH SAFETY STANDARDS THAT WILL BE IN EFFECT DURING THE PERIOD OF CONSTRUCTION OF THE PROJECT.
 - WRITTEN ASSURANCES BY THE CONTRACTOR PERFORMING THE TRENCH EXCAVATION THAT SUCH CONTRACTOR WILL COMPLY WITH THE FLORIDA TRENCH SAFETY ACT.
- ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAYS OR WALKWAYS SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC. NO TRENCHES OR HOLES NEAR WALKWAYS OR IN ROADWAYS OR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A CONSTRUCTION SCHEDULE DEPICTING EACH PHASE OF THE WORK. THE SCHEDULE SHALL BE SUBJECT TO REVIEW AND APPROVAL BY THE OWNER AND ENGINEER PRIOR TO COMMENCEMENT OF ANY WORK.
- CONTRACTOR SHALL PROMPTLY REMOVE ALL MUD, DIRT OR OTHER MATERIALS TRACKED OR SPILLED ONTO EXISTING PUBLIC ROADS AND FACILITIES DUE TO CONSTRUCTION.
- ALL EXCESS FILL AND DEBRIS FROM THE SITE SHALL BE LEGALLY DISPOSED OF OFF-SITE BY THE CONTRACTOR.
- ALL UTILITIES (MANHOLE, VALVE, ELECTRIC RINGS AND TOPS) SHALL BE ADJUSTED TO NEW FINISH GRADES AND PROPERLY SET TO PAVEMENT CROSS SLOPE AS REQUIRED.
- CONTRACTOR IS RESPONSIBLE FOR THE SELECTION OF PROPOSED CONSTRUCTION STAGING AREAS AND/OR STOCKPILING OF MATERIALS AS WELL AS ANY ACCESS/LAND USE AGREEMENTS REQUIRED TO PERFORM THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE REPAIR AND/OR RESTORATION OF ALL LANDS, FACILITIES, STRUCTURES, ETC. IMPACTED DURING THE COURSE OF THE WORK. COPIES OF ALL EXECUTED AGREEMENTS SHALL BE SUBMITTED TO THE ENGINEER AND DISTRICT FOR RECORD PURPOSES.
- CONTRACTOR SHALL COORDINATE ALL SITE WORK FOR PEDESTRIAN AND TRAFFIC CONTROL WITH THE ENGINEER AND APPLICABLE PERMITTING AGENCY.
- CONTRACTOR SHALL LIMIT ACCESS AND CONSTRUCTION OPERATIONS TO WITHIN LIMITS OF THE PUBLIC ROAD AND CANAL RIGHTS-OF-WAY. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGES OUTSIDE THE LIMITS OF THE ROAD AND CANAL RIGHTS-OF-WAY.
- AREAS FOR THE STORAGE OF EXCAVATED MATERIAL ARE LIMITED. SUCH MATERIAL MAY BE REMOVED AND STORED OFFSITE AND RETURNED FOR BACKFILLING.
- CONTRACTOR SHALL HAVE NO TRENCHES OPEN AT THE END OF EACH WORK DAY. IF NECESSARY,

TRENCHES SHALL BE TEMPORARILY BACKFILLED AND BARRICADED.

- THE AERIAL PHOTOGRAPH USED FOR THIS PROJECT WAS PREPARED FROM THE PALM BEACH COUNTY DATA BASE AND AS SUCH SHOULD BE USED ONLY AS SCHEMATICS.
- SOURCE AND DATE OF AERIAL PHOTOGRAPHY: PBC GIS DATED 2022.
- CONTRACTOR SHALL USE CAUTION AND TAKE THE NECESSARY SAFETY PRECAUTIONS WHILE WORKING ADJACENT TO OVERHEAD AND UNDERGROUND ELECTRIC.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL LOCATE AND DOCUMENT THE LOCATIONS OF ANY EXISTING IRRIGATION SYSTEMS WITHIN THE PROJECT BOUNDARIES. THE CONTRACTOR WILL BE RESPONSIBLE AS PART OF THIS CONTRACT TO RESTORE THE EXISTING IRRIGATION SYSTEMS TO ORIGINAL OR BETTER CONDITIONS.
- CONTRACTOR MUST PREPARE AND SUBMIT A FRAC-OUT CONTINGENCY AND RESPONSE PLAN FOR THE HORIZONTAL DIRECTIONAL DRILL UNDERNEATH THE LOXAHATCHEE RIVER. THE PLAN SHALL BE PREPARED BY A QUALIFIED INDIVIDUAL AND IS SUBJECT TO REVIEW AND APPROVAL BY THE OWNER AND ENGINEER PRIOR TO COMMENCEMENT OF ANY HORIZONTAL DIRECTIONAL DRILLING ACTIVITIES.
- THE CONTRACTOR SHALL PROTECT AND PRESERVE ANY SPECIMEN PALMS AND TREES IN THE AREA IF POSSIBLE.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR RESTORATION OF ALL AREAS DISTURBED DURING CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE A PRE AND POST CONSTRUCTION VIDEO OF THE PROJECT AREA. CRACK MONITORS SHALL BE INSTALLED ON ALL VISIBLE CRACKS OF ADJACENT STRUCTURES AND INCLUDED IN BOTH THE PRE AND POST CONSTRUCTION VIDEOS.
- TO THE EXTENT PRACTICABLE, THERE SHALL BE NO IMPACT TO TREE OR ROOT ZONES. DIRECT BORE ONLY WITHIN THE CRITICAL ROOT ZONE; NO TRENCHING. ANY SUBSURFACE WORK THAT INADVERTENTLY AFFECTS TREE ROOTS SHALL REQUIRE ALL ROOTS TO BE PRUNED WITH SANITIZED EQUIPMENT, RESULTING IN CLEAN CUTS AND NOT SHORN, JAGGED EDGES AS MAY BE INADVERTENTLY CAUSED BY TRENCHING, DRILLING, OR DIGGING. ANY AFFECTED BRANCHES MUST BE PRUNED BY AN ISA CERTIFIED ARBORIST IN CONFORMANCE WITH TOWN OF JUPITER CODE REQUIREMENTS AND ANSI A300 STANDARDS. A VEGETATION REMOVAL PERMIT IS REQUIRED PRIOR TO THE REMOVAL OF ANY TREES OR LANDSCAPING. ALL SOD, LANDSCAPING AND IRRIGATION SHALL BE RESTORED TO PRE-WORK CONDITIONS.

SURVEY NOTES:

- SURVEY HAS BEEN PREPARED IN THE OFFICE OF DENNIS J. LEAVY & ASSOCIATES, INC. LOCATED AT: 460 BUSINESS PARK WAY, SUITE B, ROYAL PALM BEACH, FLORIDA, WHOSE CERTIFICATE OF AUTHORIZATION NUMBER IS LB #6599, AND THE CERTIFYING SURVEYOR'S (DAVID A. BOWER) LICENSE NUMBER IS LS #5888.
- DATE OF FIELD SURVEY: OCTOBER 6TH, 2022, AS RECORDED IN FIELD BOOK 523, PAGES 53, 55, 56, 57, 63, 66, 67, 68, 71, 72 AND 73 & FIELD BOOK 526, PAGES 25, 26 AND 37 THOUGH 42.
- THIS SURVEY LIES IN SECTION 36, TOWNSHIP 40 SOUTH, RANGE 42 EAST AND SECTION 31, TOWNSHIP 40 SOUTH, RANGE 43 EAST, TOWN OF JUPITER, PALM BEACH COUNTY, FLORIDA.
- MEASUREMENTS SHOWN HEREON ARE EXPRESSED IN FEET AND DECIMAL PARTS THEREOF UNLESS OTHERWISE NOTED.
- BENCHMARKS OF ORIGIN: PALM BEACH COUNTY BENCHMARKS "CEN PER" AND "Y 402" WHOSE PUBLISHED ELEVATIONS ARE 3.573' AND 5.476' RESPECTFULLY, BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988.
- ELEVATIONS REFERENCED HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

SURVEY SYMBOL LEGEND:

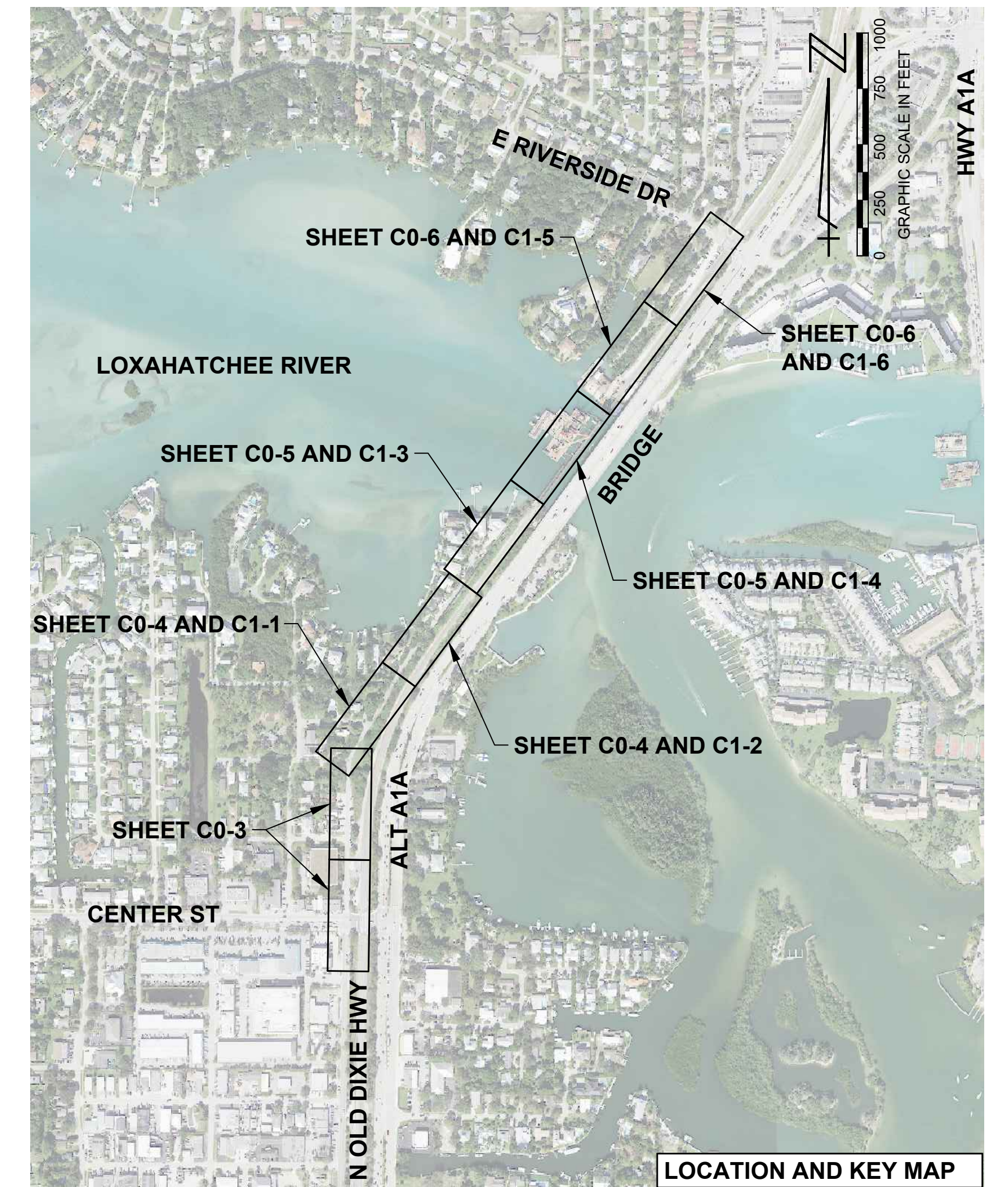
○ ATT	AT&T RISER	⊗ wv	WATER VALVE
⊗ BFP	BACK FLOW PREVENTOR	⊗ wv	WATER VALVE WITH CONCRETE APRON
◆	BENCHMARK	⊙	WOOD POWER POLE
○ BOL	BOLLARD	⊙*	WOOD POWER POLE WITH LIGHT
□	CATCH BASIN	■ YD	YARD DRAIN
○ CTV	CABLE TV RISER		
○ CO	CLEAN OUT		
⊞	ELECTRIC HANDHOLE		
○ FO	FIRE OPTIC RISER		
⊗ HYD	FIRE HYDRANT		
⊙	GROUND LIGHT		
←	GUIDE WIRE AND ANCHOR		
⊞	IRRIGATION HANDHOLE		
⊗ ICV	IRRIGATION VALVE		
☆	LIGHT POST		
Ⓜ	MAILBOX		
●*	MISC TREE WITH TRUNK DIAMETER		
☆*	PALM TREE WITH TRUNK DIAMETER		
⊙	SANITARY MANHOLE		
⊙ sv	SANITARY VALVE		
⊗ sv	SANITARY VALVE WITH CONCRETE APRON		
○	SIGN		
⊕	SPRINKLER		
⊞	UNKNOWN HANDHOLE		
⊙	WATER HANDHOLE		
⊞	WATER METER		

SURVEY LEGEND:

DC	DROP CURB
E	EAST
EL	ELEVATION
LB	LICENSED BUSINESS
LS	LICENSED SURVEYOR
N	NORTH
NAVD	NORTH AMERICAN VERTICAL DATUM
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NO.	NUMBER
O.R.B.	OFFICIAL RECORDS BOOK
OHW	OVERHEAD WIRE
P.B.	PLAT BOOK
P.B.C.R.	PALM BEACH COUNTY RECORDS
PG.	PAGE
S	SOUTH
TON	TOP OF NUT
W	WEST

ENGINEERING LEGEND

AC	ACRE
BL	BASELINE
BVC	BEGIN VERTICAL CURVE
BFO	BURIED FIBER OPTIC CABLE
BM	BENCHMARK
CAP	CORRUGATED ALUMINUM PIPE
CB	CATCH BASIN
CMP	CORRUGATED METAL PIPE
C & G	CURB & GUTTER
CL	CENTERLINE
CONST	CONSTRUCTION
CONC	CONCRETE
CY	CUBIC YARDS
DIP	DUCTILE IRON PIPE
DR	DIMENSION RATIO
E	EASTING/EAST
EL	ELEVATION
EOP	EDGE OF PAVEMENT
EOW	EDGE OF WATER
EXIST	EXISTING
FM	FORCEMAIN
FL	FLOWLINE
GV	GATE VALVE
GR	GRATE
HDD	HORIZONTAL DIRECTIONAL DRILL
HDPE	HIGH-DENSITY POLYETHYLENE
LRD	LOXAHATCHEE RIVER DISTRICT
MOD	MODIFIED
N	NORTHING
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
NGVD29	NATIONAL GEODETIC VERTICAL DATUM OF 1929
OHW	OVERHEAD WIRE
PBC	PALM BEACH COUNTY
PC	POINT OF CURVATURE
PRC	POINT OF REVERSE CURVATURE
PROP	PROPOSED
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
LT	LEFT
LF	LINEAR FEET
LOC	LIMITS OF CONSTRUCTION
N	NORTHING/NORTH
NTS	NOT TO SCALE
TBR	TO BE REMOVED
OS	OFFSET
RT	RIGHT
RCP	REINFORCED CONCRETE PIPE
RXX	RADIUS
R/W	RIGHT OF WAY
S	SOUTH
SF	SQUARE FEET
STA	STATION
SD	STORM DRAIN
SS	SANITARY SEWER
TEMP	TEMPORARY
TOB	TOP OF BANK
TOS	TOE OF SLOPE
(TYP)	TYPICAL
UE	UTILITY EASEMENT
Vvh	VERIFIED VERTICALLY & HORIZONTALLY
W	WEST
WM	WATERMAIN

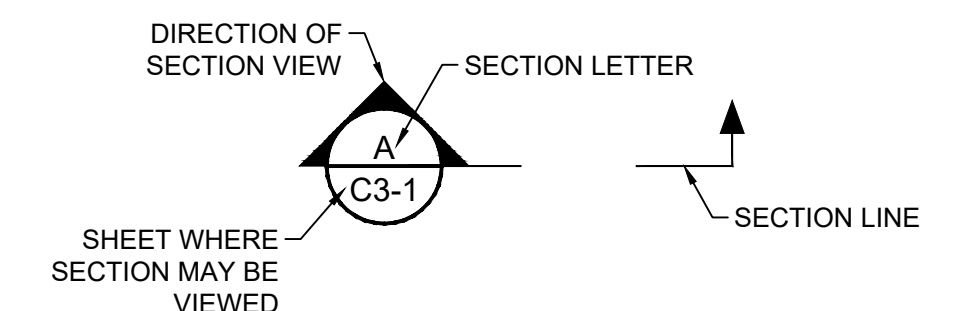


SURVEY PLAT LEGEND:

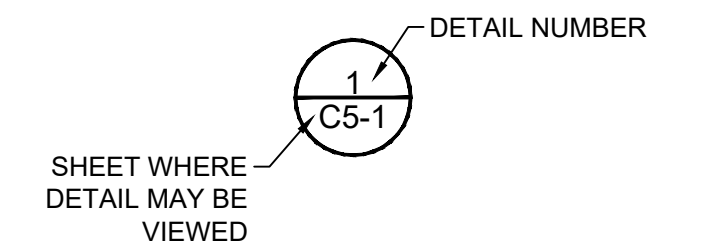
- (P1) PENNOCK PLACE (P.B. 2, PG. 67, P.B.C.R.)
- (P2) PLAT OF LAND'S END (P.B. 69, PG. 105, P.B.C.R.)
- (P3) RIVER HAMMOCK (P.B. 105, PG. 196, P.B.C.R.)

VERTICAL DATUM	
ELEVATIONS REFERENCED HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).	
NOTE: TO CONVERT FROM NAVD88 TO NGVD29 DATUM ADD 1.51 FEET TO THE NAVD88 ELEVATION.	
EXAMPLE:	EL = 10.00' (NAVD 88) EL = 11.51' (NGVD 29)

CIVIL SECTION VIEW CALL OUT SYMBOL



CIVIL DETAIL CALL OUT SYMBOL



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PLOT DATE: May 06, 2024 - 11:34am

Vertical Datum: NAVD88	
Datum Conversion: NGVD29 - 1.51'	
P.A. No. C0089 40	
Dwg. No. 40-43-31-04	
Location: PALM BEACH COUNTY, FL	
No.	Date
By	Revision

SEAL
TYLER E. THOMPSON
Florida P.E. No. 86558
Date

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CONSULTING ENGINEERS

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(561) 683-3113, www.MockRoos.com

Florida Reg. No. 48

Florida L.B. No. 48

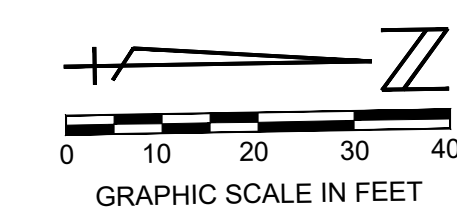
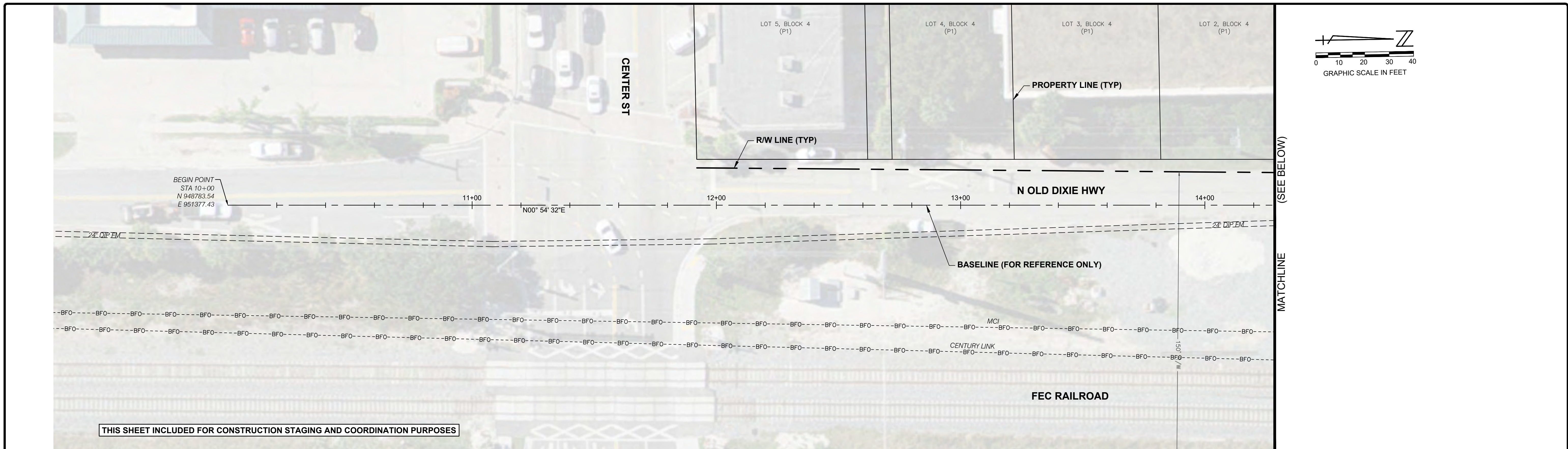
**LOXAHATCHEE RIVER
SUBAQUEOUS FORCEMAIN
CROSSING REPLACEMENT**

LOXAHATCHEE RIVER DISTRICT

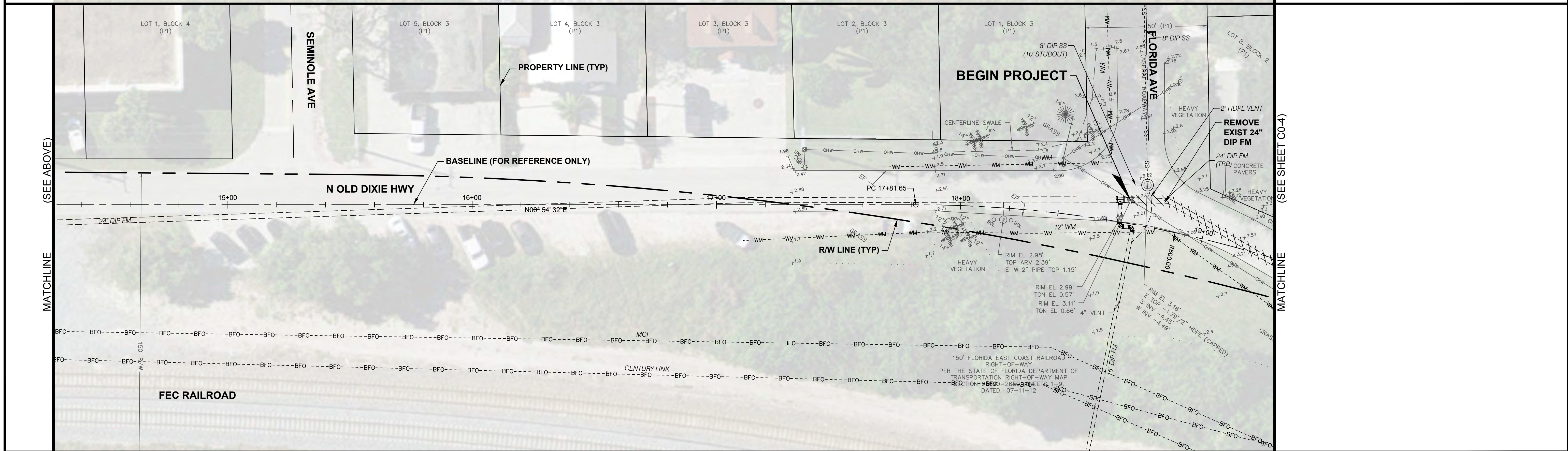
**GENERAL NOTES,
LEGENDS, AND KEY
MAP**

MAY 2024

C0-2



THIS SHEET INCLUDED FOR CONSTRUCTION STAGING AND COORDINATION PURPOSES



CAD File: \\fd\subs\CAD\DWG\SUB\BACS01_C0-3.dwg
 PLOT DATE: May 06, 2024 - 11:35am
 Bar is equal to one inch on original drawing
 Adjust all scaled dimensions accordingly.

Vertical Datum: NAVD88	
Datum Conversion: NGVD29 - 1.51'	
P.A. No. C0089.00	
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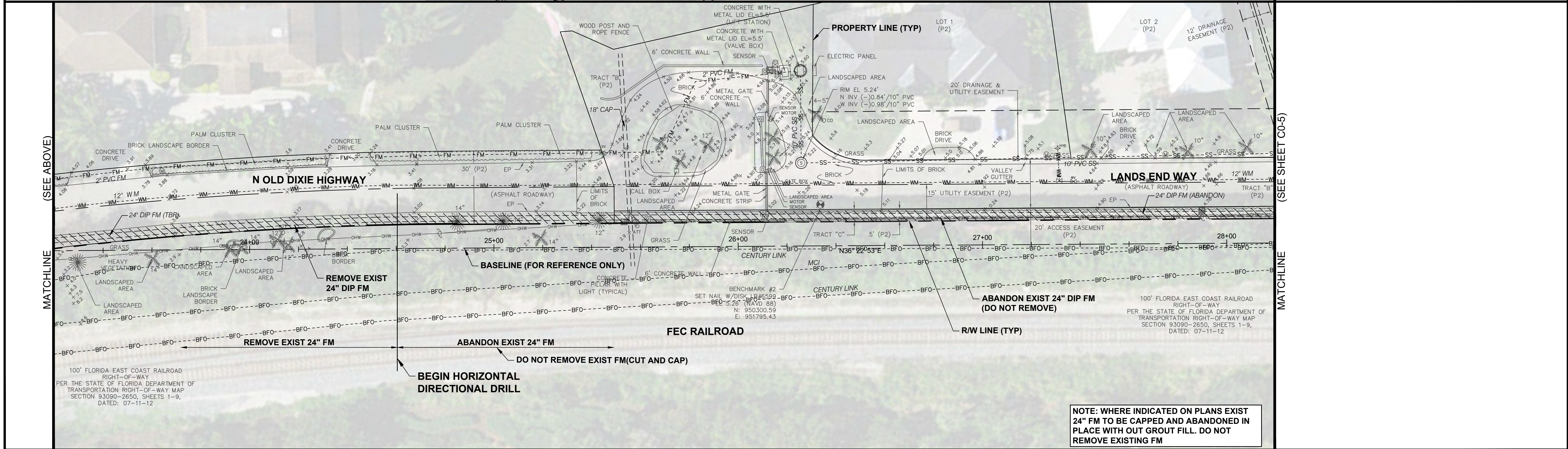
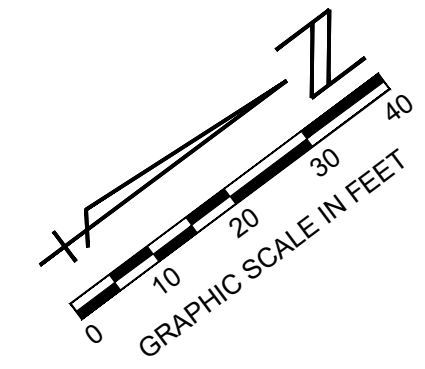
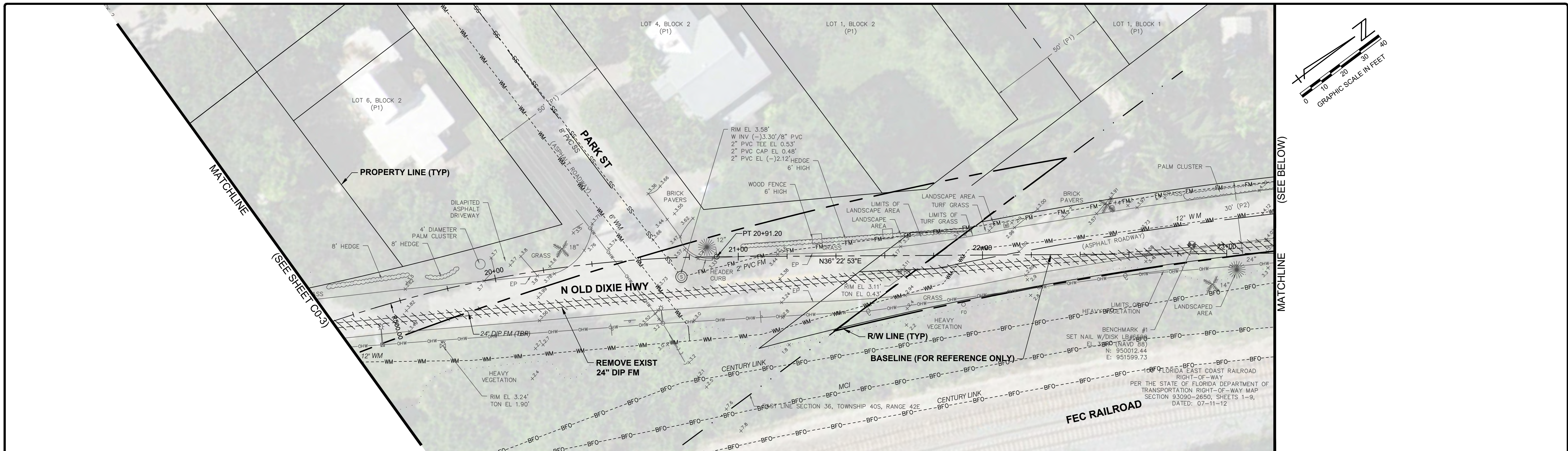
**LOXAHATCHEE RIVER
SUBAQUEOUS FORCEMAIN
CROSSING REPLACEMENT**

LOXAHATCHEE RIVER DISTRICT

**EXISTING SITE AND
DEMOLITION PLAN
VIEW**

MAY 2024

C0-3



NOTE: WHERE INDICATED ON PLANS EXIST 24\"/>

CADD File: F:\id_saba\CADD\GIS\BACS01_C0-3.dwg
 PLOT DATE: May 06, 2024 - 11:35am
 All dimensions in feet unless otherwise noted.

Vertical Datum: NAVD88	
Datum Conversion: NGVD29 - 1.51'	
P.A. No. C0089.40	
Dwg. No. 40-43-31-04	
Location: PALM BEACH COUNTY, FL	

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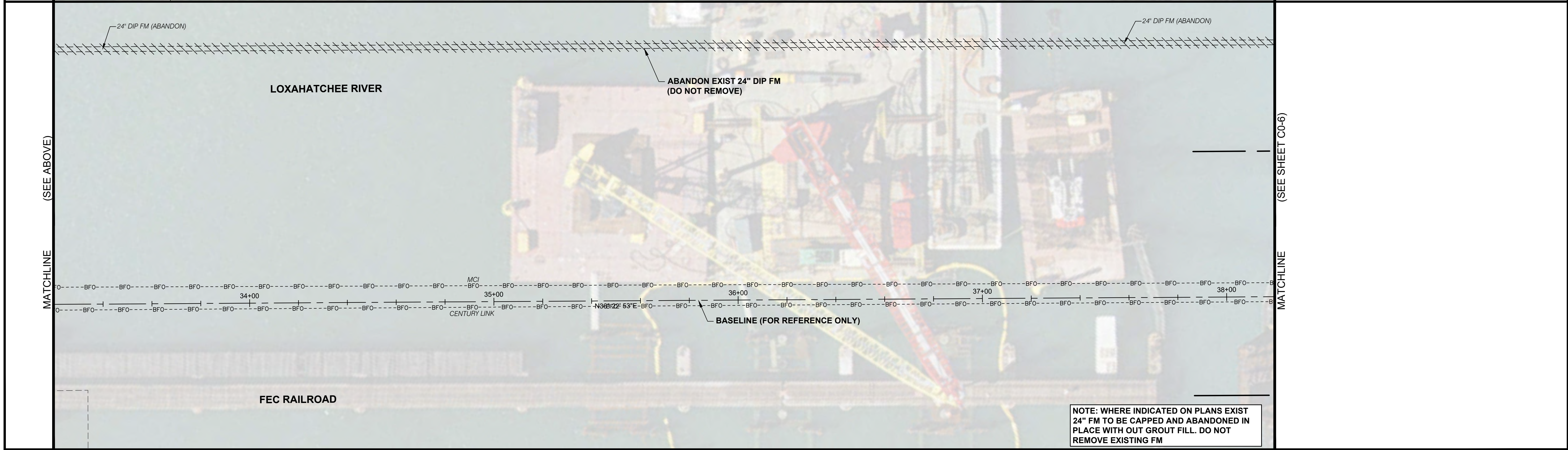
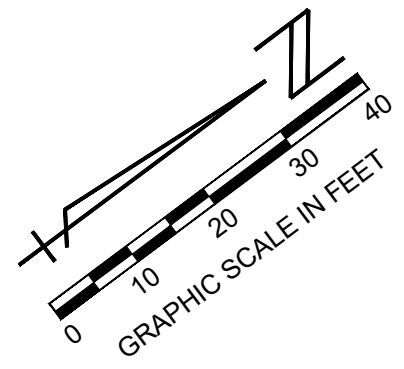
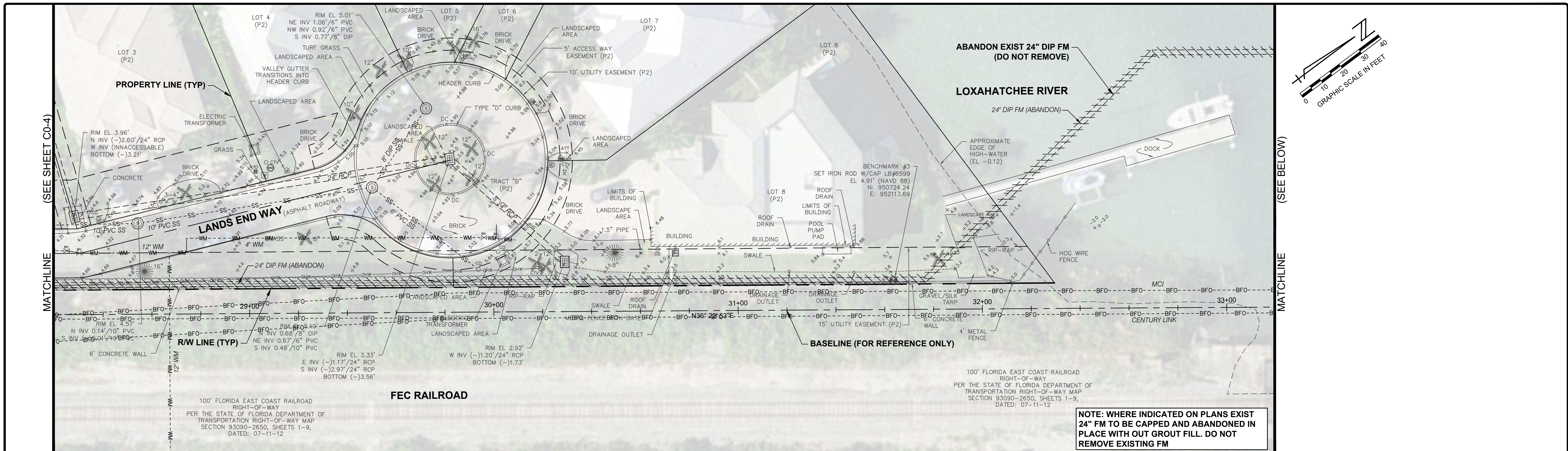
**LOXAHATCHEE RIVER
SUBAQUEOUS FORCEMAIN
CROSSING REPLACEMENT**

LOXAHATCHEE RIVER DISTRICT

**EXISTING SITE AND
DEMOLITION PLAN
VIEW**

MAY 2024

C0-4



CAD File: \\id_tad_saba\CAD\DWG\SUBA\BACS01_C0-3.dwg
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 Bar is equal to one inch on original drawing
 Adjust all scaled dimensions accordingly.

Vertical Datum: NAVD88	
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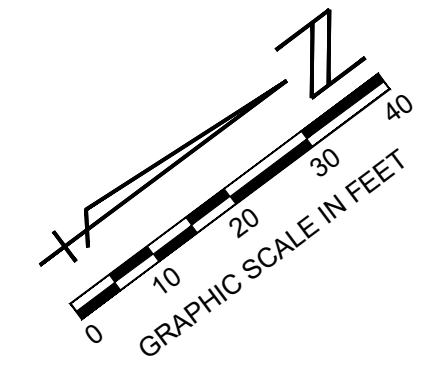
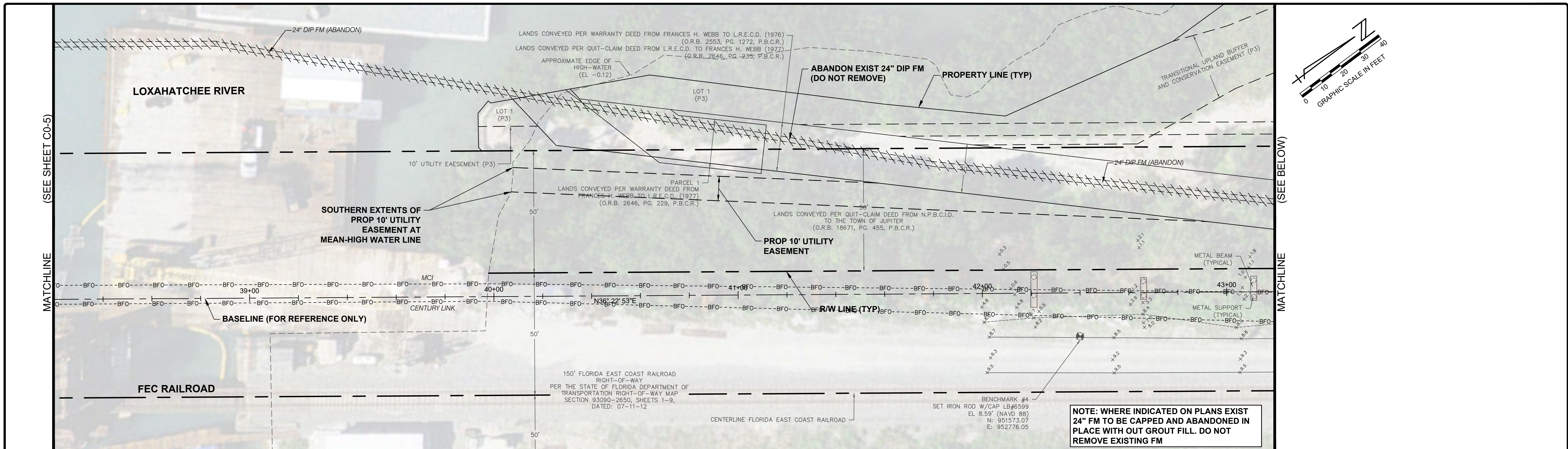
LOXAHATCHEE RIVER
SUBAQUEOUS FORCEMAIN
CROSSING REPLACEMENT

LOXAHATCHEE RIVER DISTRICT

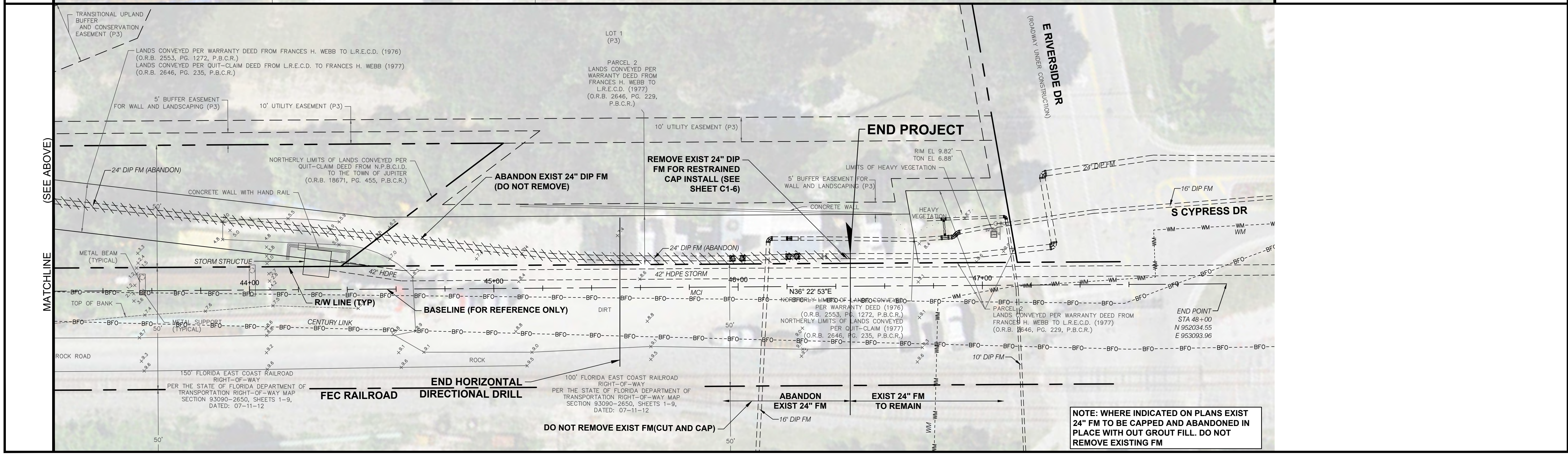
EXISTING SITE AND
DEMOLITION PLAN
VIEW

MAY 2024

C0-5



NOTE: WHERE INDICATED ON PLANS EXIST 24" FM TO BE CAPPED AND ABANDONED IN PLACE WITH OUT GROUT FILL. DO NOT REMOVE EXISTING FM



NOTE: WHERE INDICATED ON PLANS EXIST 24" FM TO BE CAPPED AND ABANDONED IN PLACE WITH OUT GROUT FILL. DO NOT REMOVE EXISTING FM

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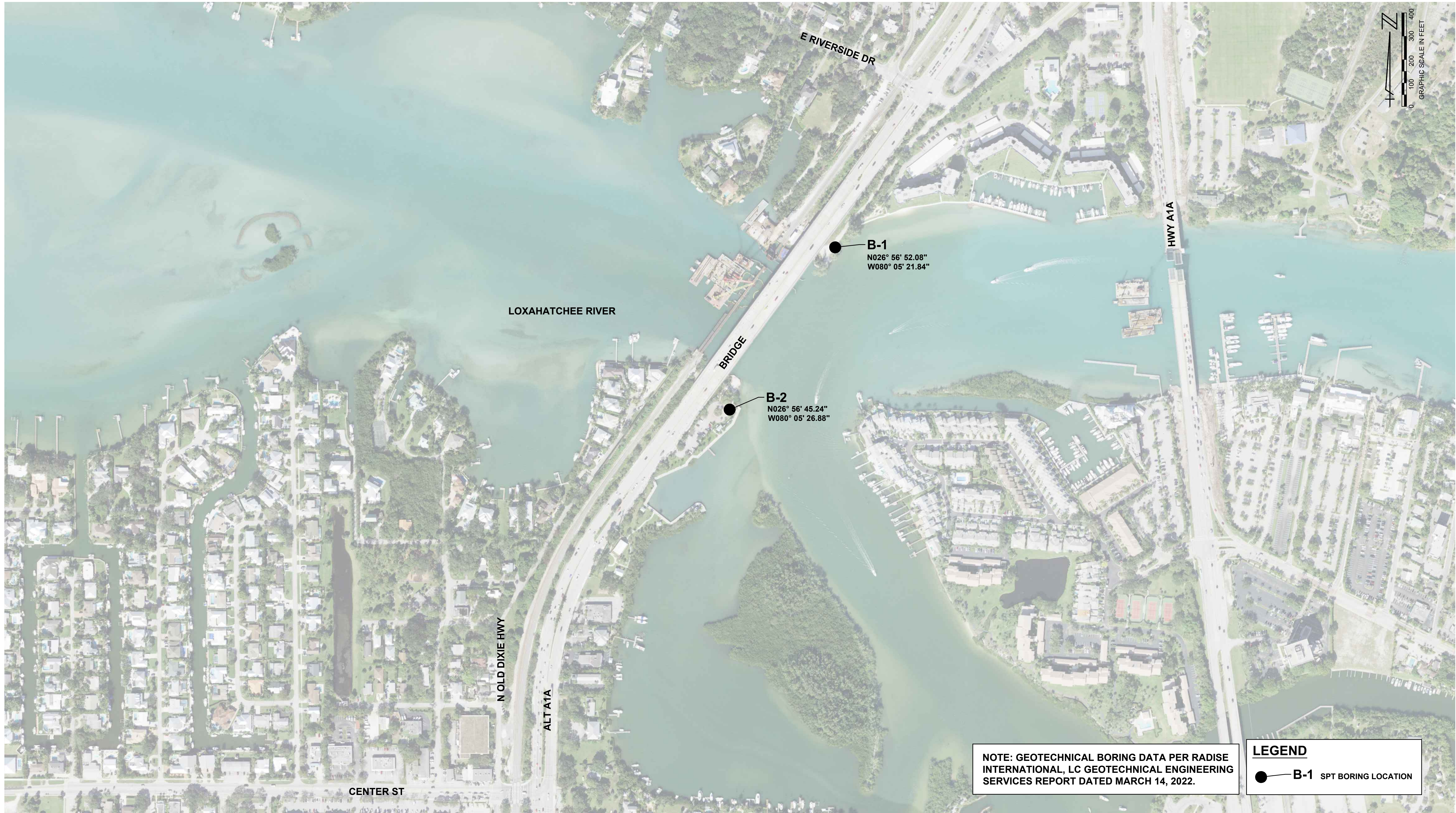
**LOXAHATCHEE RIVER
SUBAQUEOUS FORCEMAIN
CROSSING REPLACEMENT**

LOXAHATCHEE RIVER DISTRICT

**EXISTING SITE AND
DEMOLITION PLAN
VIEW**

MAY 2024

C0-6



B-1
 N026° 56' 52.08"
 W080° 05' 21.84"

B-2
 N026° 56' 45.24"
 W080° 05' 26.88"

NOTE: GEOTECHNICAL BORING DATA PER RADISE INTERNATIONAL, LC GEOTECHNICAL ENGINEERING SERVICES REPORT DATED MARCH 14, 2022.

LEGEND
 ● B-1 SPT BORING LOCATION

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 All dimensions in feet unless otherwise noted.
 Refer to original drawing for all dimensions.

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Date

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LOXAHATCHEE RIVER SUBAQUEOUS FORCEMAIN CROSSING REPLACEMENT LOXAHATCHEE RIVER DISTRICT

SOIL BORING LOCATION
--

MAY 2024 C0-7

MAY 2024 C0-7

CADD File: F:\id_suba\CADD\DWG\SUBA\BACS01_C0-2.dwg
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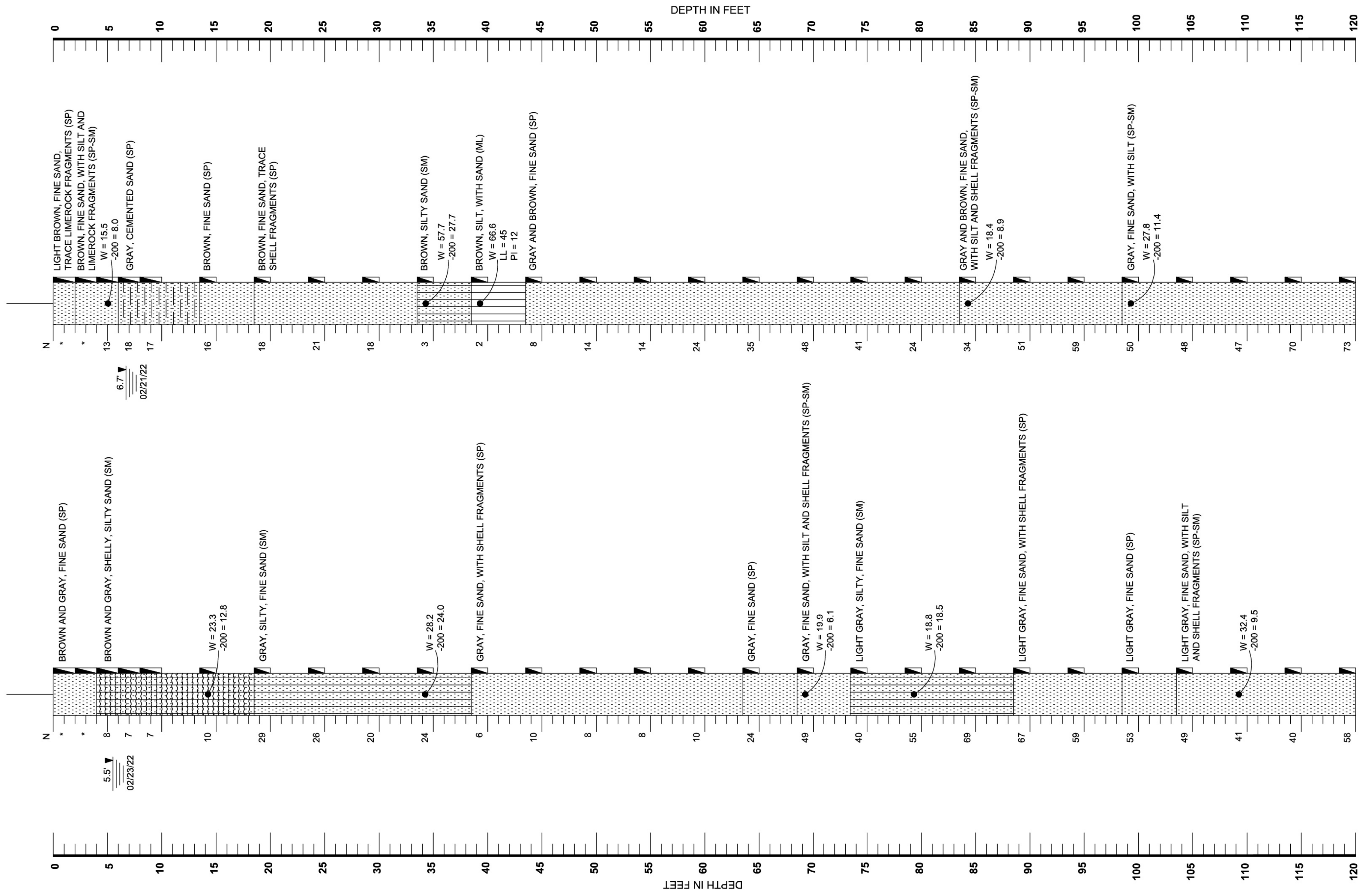
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**LOXAHATCHEE RIVER
 SUBAQUEOUS FORCEMAIN
 CROSSING REPLACEMENT**
 LOXAHATCHEE RIVER DISTRICT

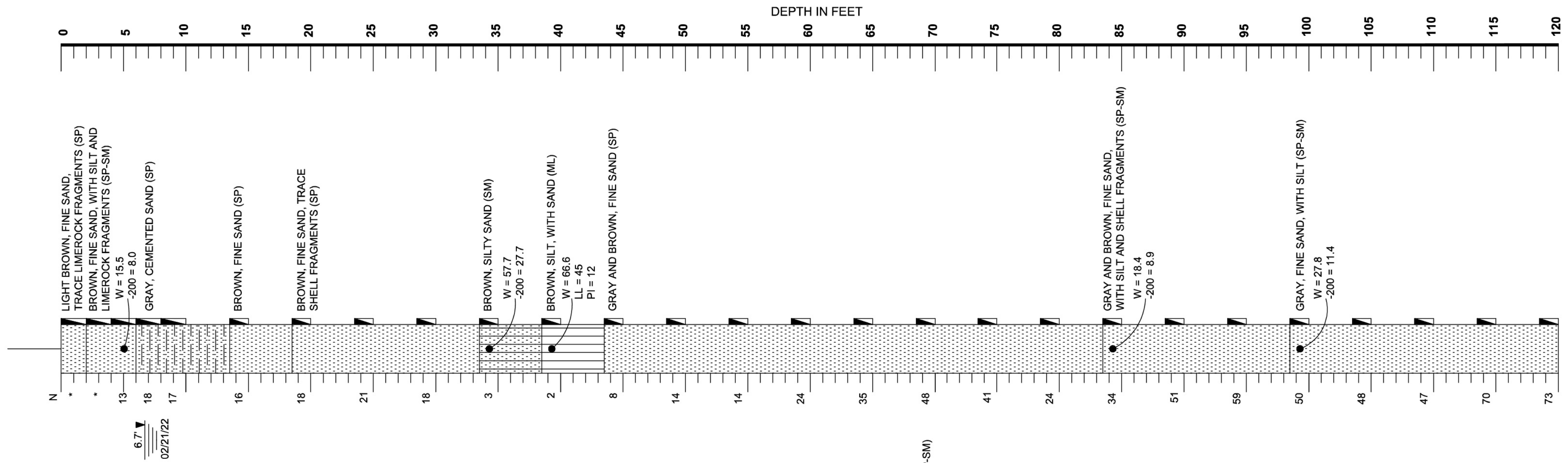
**SOIL BORING
 PROFILES**

MAY 2024
C0-8

BORING NO.: B-1
LONGITUDE: W -80.0894°
LATITUDE: N 26.9478°
RIG: CME 45
HAMMER: AUTO
DRILLER: RAVI
DATE: 02/23/2022



BORING NO.: B-2
LONGITUDE: W -80.0908°
LATITUDE: N 26.9459°
RIG: CME 45
HAMMER: AUTO
DRILLER: RAVI
DATE: 02/21/2022



NOTE: GEOTECHNICAL BORING DATA PER RADISE INTERNATIONAL, LC GEOTECHNICAL ENGINEERING SERVICES REPORT DATED MARCH 14, 2022.

LEGEND

	SAND (SP, SP-SM)		SILT (ML)
	SHELLY, SILTY SAND (SM)		SILTY SAND (SM)
	CEMENTED SAND (SP)		

B.T. @ 120' BORING TERMINATED AT 120 FEET BELOW THE EXISTING GROUND SURFACE
 B-1 STANDARD PENETRATION TEST (SPT) BORING AND NUMBER
 N STANDARD PENETRATION RESISTANCE-BLOWS PER FOOT USING AUTOMATIC HAMMER

SAMPLING INTERVAL

5.5' GROUNDWATER LEVEL IN FEET AND DRILLING DATE 02/23/21

W MOISTURE CONTENT (%)
 OC ORGANIC CONTENT (%)
 -200 AMOUNT PASSING US STANDARD 200 SIEVE (%)
 SP, SP-SM UNIFIED SOIL CLASSIFICATION SYSTEM GROUP SYMBOL (ASTM D 2487)
 * THE TOP 4 FEET OF THE SPT BORINGS WERE PERFORMED WITH A HAND AUGER TO VERIFY CLEARANCE OF SHALLOW UNDERGROUND UTILITIES IN THE AREA OF THE BORINGS.

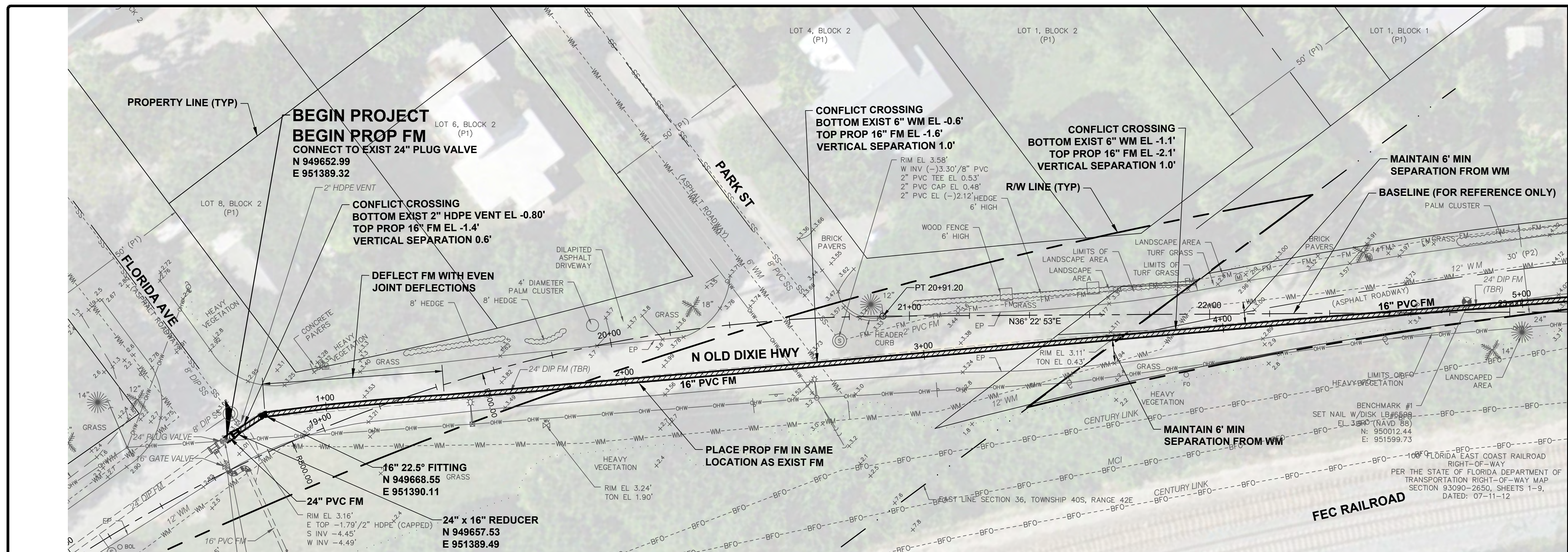
NOTES:

- BORINGS WERE DRILLED BETWEEN 02/21/2022 AND 02/23/2022. SPT BORINGS WERE PERFORMED USING A CME-45C AUTOMATIC HAMMER DRILLING RIG (ASTM D1586).
- STRATA BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH TEST HOLE LOCATION ONLY. SOIL TRANSITIONS MAY BE MORE GRADUAL THAN IMPLIED.
- GROUNDWATER LEVELS SHOWN ON THE SUBSURFACE PROFILES REPRESENT GROUNDWATER SURFACES ON THE DATES SHOWN. GROUNDWATER LEVEL FLUCTUATIONS SHOULD BE ANTICIPATED THROUGHOUT THE YEAR.
- AFTER COMPLETION OF DRILLING, BOREHOLES WERE BACKFILLED WITH GROUT.

STANDARD PENETRATION TEST DATA *

SPOON INSIDE DIA.	1.375 INCH
SPOON OUTSIDE DIA.	2 INCHES
AVG. HAMMER DROP	30 INCHES
HAMMER WEIGHT	140 POUNDS
GRANULAR MATERIALS	AUTOMATIC HAMMER SPT N - VALUE
RELATIVE DENSITY	BLOWS/FOOT
VERY LOOSE	LESS THAN 3
LOOSE	3 - 8
MEDIUM	8 - 24
DENSE	24 - 40
VERY DENSE	GREATER THAN 40
SILTS AND CLAYS	AUTOMATIC HAMMER SPT N - VALUE
CONSISTENCY	BLOWS/FOOT
VERY SOFT	LESS THAN 1
SOFT	1 - 3
FIRM	3 - 6
STIFF	6 - 12
VERY STIFF	12 - 24
HARD	GREATER THAN 24

*FDOT SOILS AND FOUNDATIONS HANDBOOK 2020

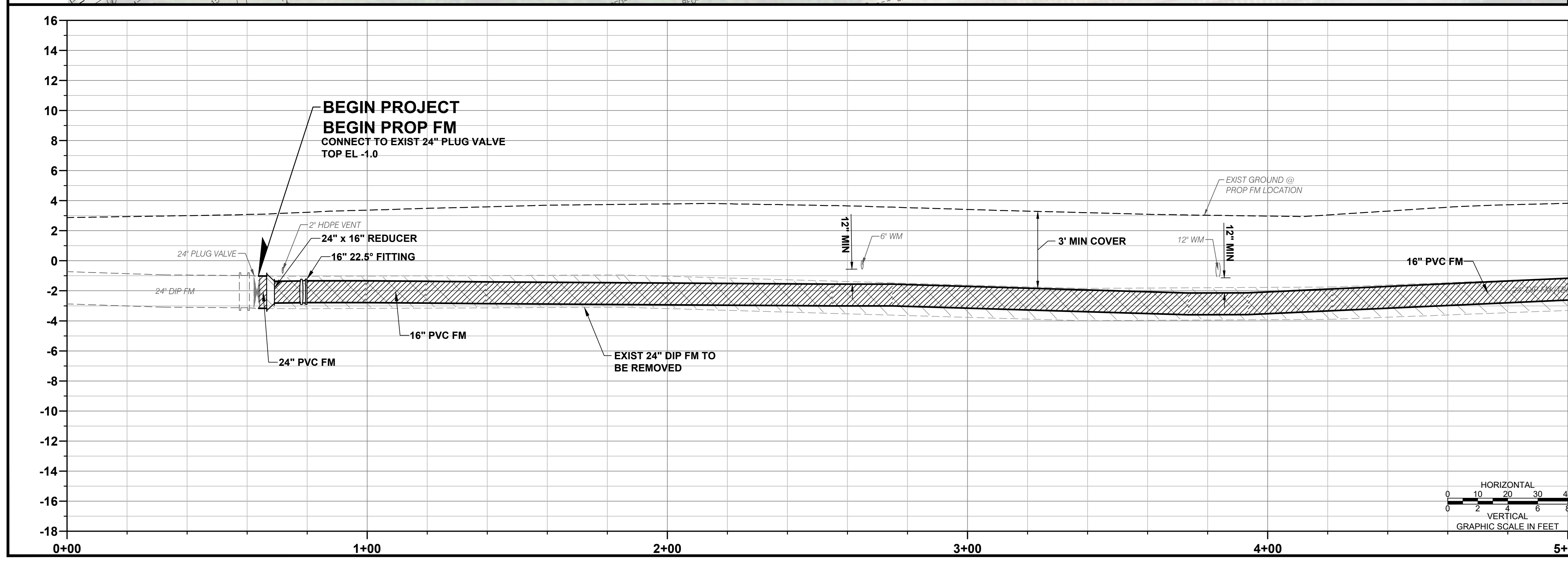


GRAPHIC SCALE IN FEET

MATCHLINE (SEE SHEET C1-2)

NOTES:

1. ALL PIPE JOINTS, FITTINGS, AND APPURTENANCES SHALL BE RESTRAINED.
2. ANY VEGETATION AND RELATED MULCH BEDS AND PAVERS THAT ARE DAMAGED OR REMOVED SHALL BE REPLACED IN KIND.
3. THE SHOULDER OF THE ROAD SHALL BE RESTORED IN ACCORDANCE WITH TOWN OF JUPITER ENGINEERING DIVISION STANDARD DETAIL 114a INCLUDING STABILIZED SHOULDER AND SODDING.



LEGEND

PROP PVC FM

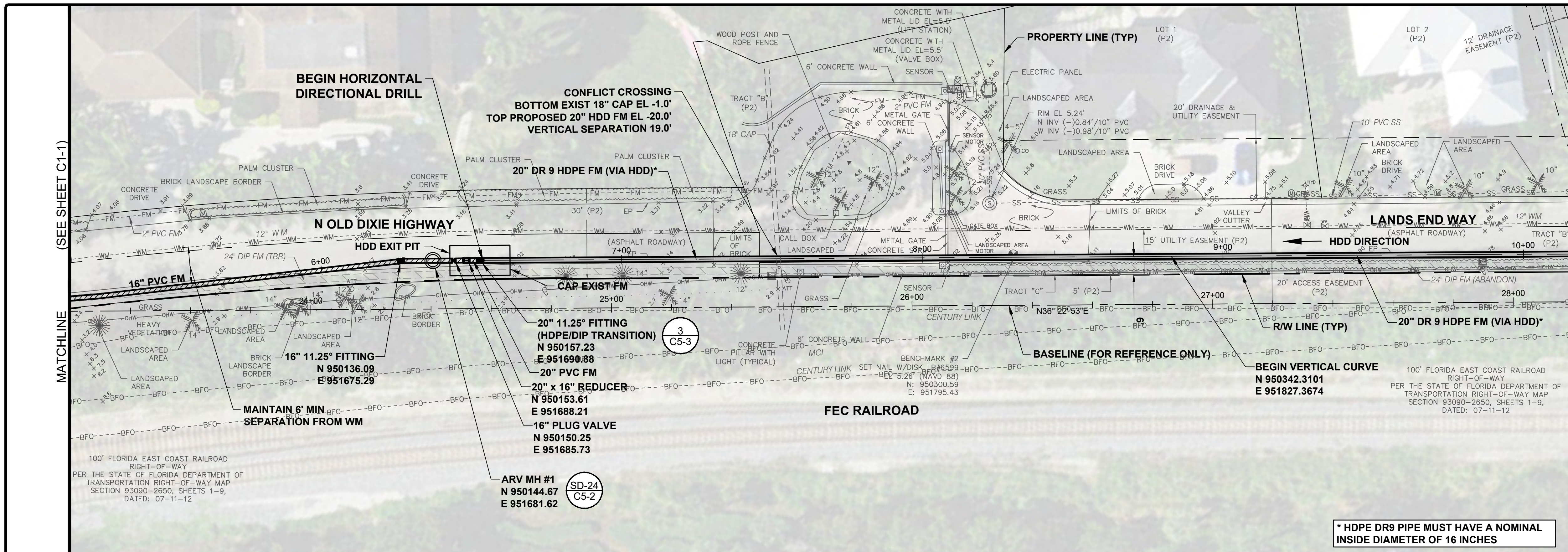
EXIST FM TO BE REMOVED

HORIZONTAL GRAPHIC SCALE IN FEET

VERTICAL GRAPHIC SCALE IN FEET

<p>Vertical Datum: NAVD88</p> <p>Datum Conversion: NGVD29 - 1.51'</p> <p>P.A. No. C0089.40</p> <p>Dwg. No. 40-43-31-04</p> <p>Location: PALM BEACH COUNTY, FL</p>	<p>SEAL</p> <p>TYLER E. THOMPSON Florida P.E. No. 86558</p> <p>Date</p>	<p>MOCK • ROOS</p> <p>CONSULTING ENGINEERS</p> <p>5720 Corporate Way, West Palm Beach, Florida 33407 (561) 683-3113, www.MockRoos.com</p> <p>Florida Reg. No. 48 Florida L.B. No. 48</p>	<p>LOXAHATCHEE RIVER SUBAQUEOUS FORCEMAIN CROSSING REPLACEMENT</p> <p>LOXAHATCHEE RIVER DISTRICT</p>	<p>PLAN & PROFILE VIEW</p> <p>C1-1</p>	<p>MAY 2024</p>								
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No.	Date	By	Revision										

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 PLOT DATE: May 06, 2024 - 11:35am
 All dimensions in feet unless otherwise noted.



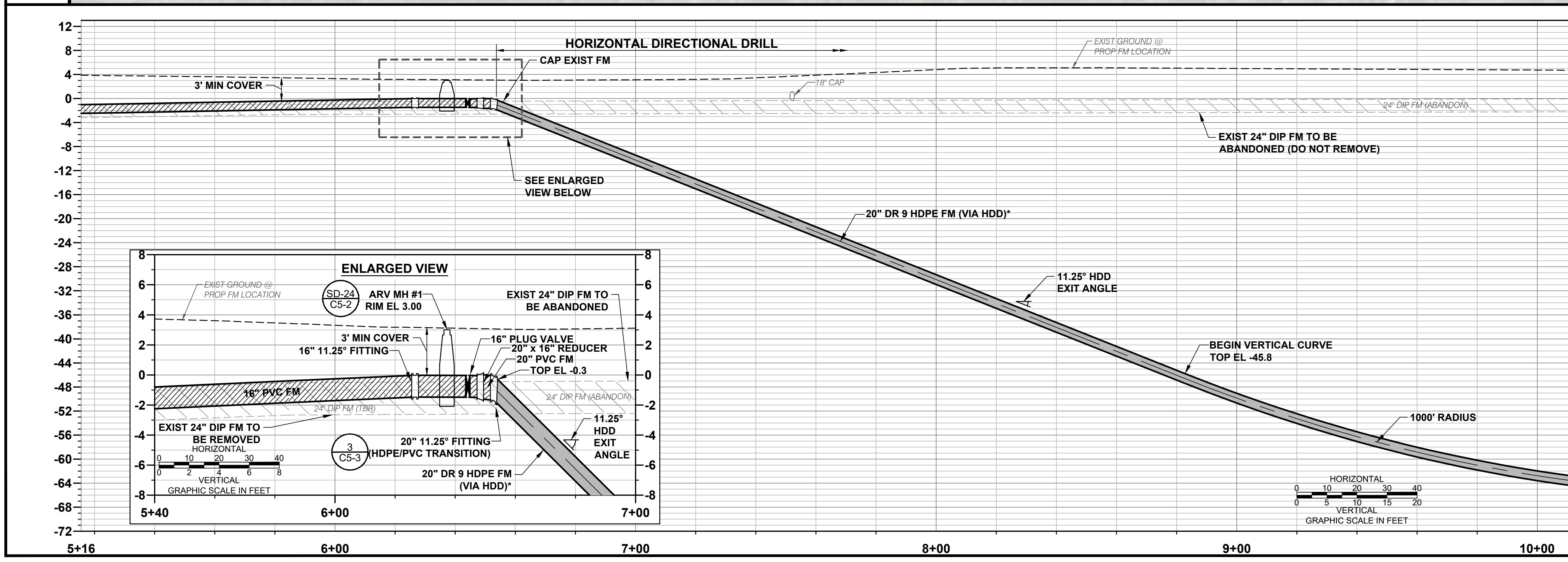
GRAPHIC SCALE IN FEET

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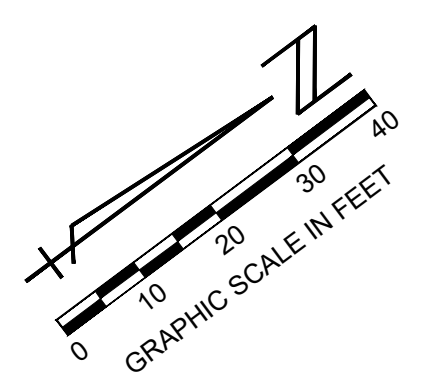
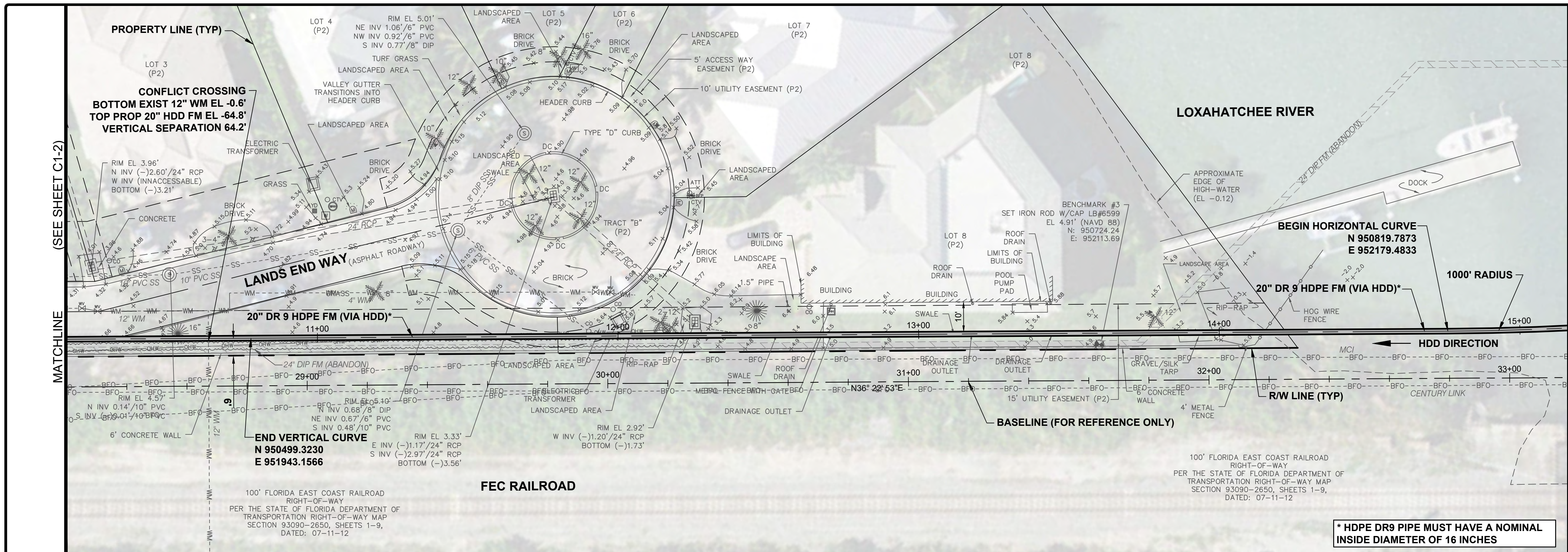
NOTE: HDD SHALL ALSO INCLUDE A MINIMUM 2" HDPE CONDUIT AND TWO MINIMUM 10-GAUGE TRACER WIRES INSTALLED FOR FULL LENGTH OF THE BORE. THE CONDUIT SHALL BE TERMINATED IN A CDR BOX INSTALLED AT EACH END OF THE BORE. THE 10-GAUGE TRACER WIRES SHALL BE TERMINATED IN THE VALVE BOX FOR THE ISOLATION VALVES AT EACH END OF THE BORE.

* HDPE DR9 PIPE MUST HAVE A NOMINAL INSIDE DIAMETER OF 16 INCHES



LEGEND

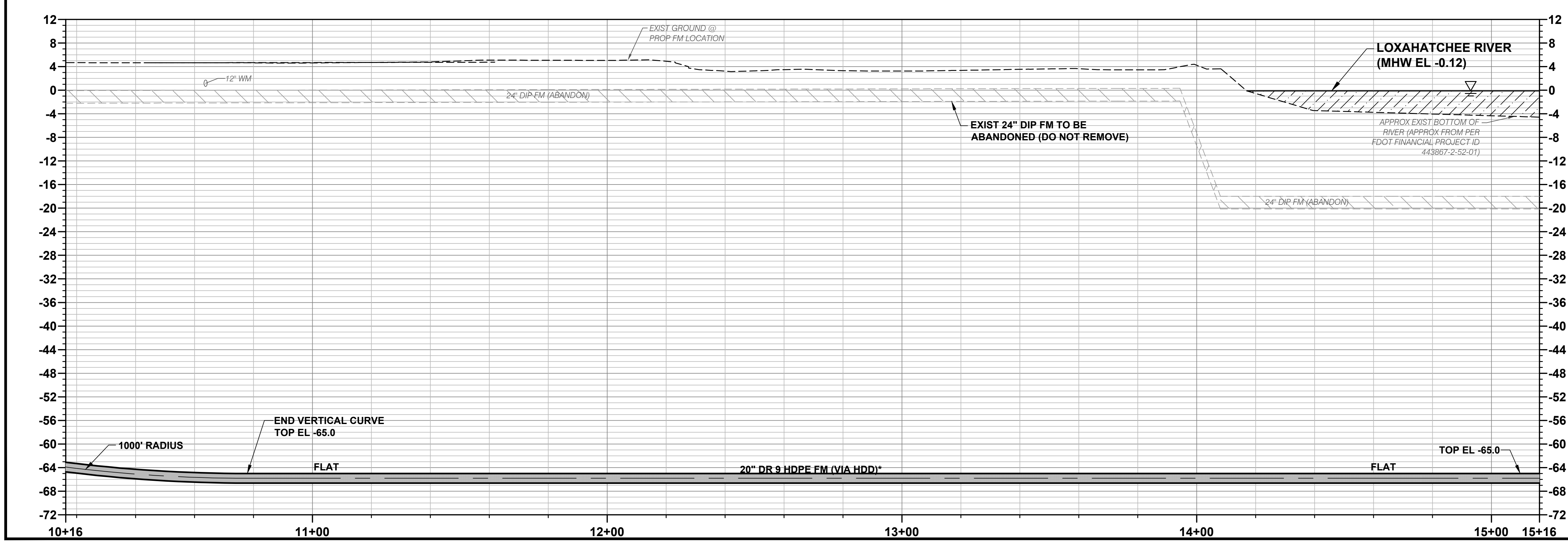
- PROP PVC FM
- PROP HDPE FM (VIA HDD)
- EXIST FM TO BE REMOVED OR ABANDONED



- NOTES:**
- ALL PIPE JOINTS, FITTINGS, AND APPURTENANCES SHALL BE RESTRAINED.

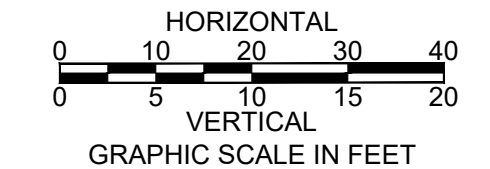
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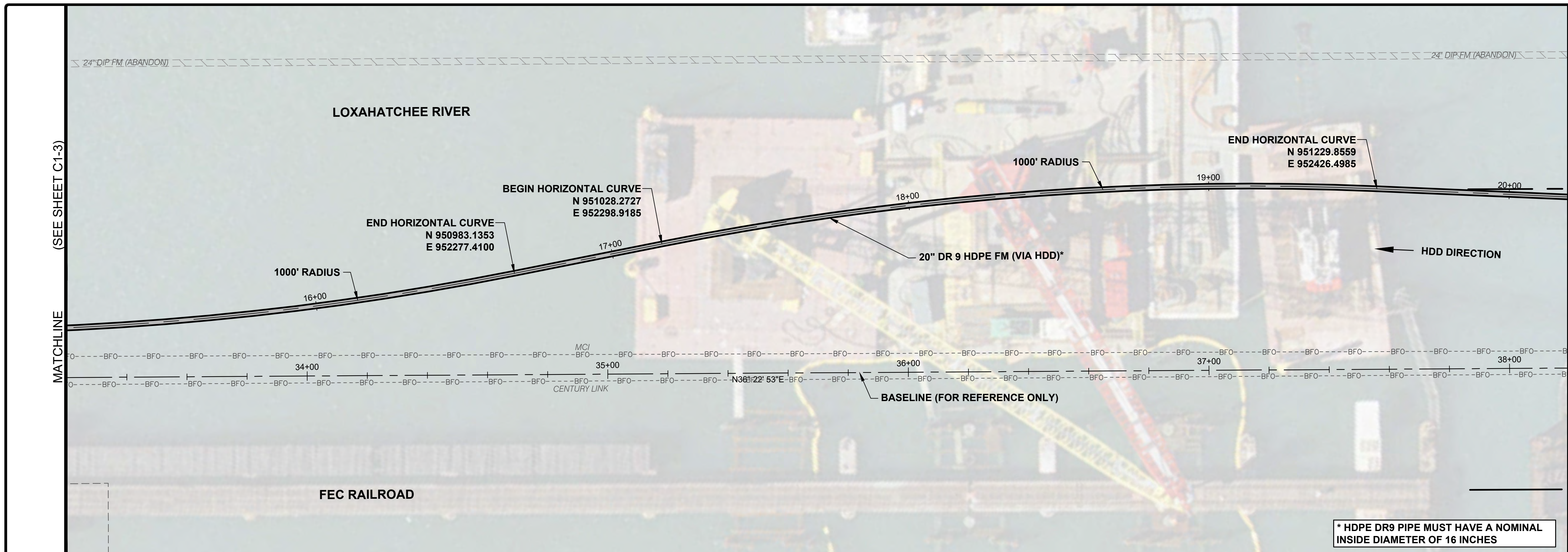
LEGEND

- PROP HDPE FM (VIA HDD)
- EXIST FM TO BE REMOVED OR ABANDONED
- LOXAHATCHEE RIVER SECTION



<p>Vertical Datum: NAVD88 Datum Conversion: NGVD29 - 1.51' P.A. No. C0089.40 Dwg. No. 40-43-31-04 Location: PALM BEACH COUNTY, FL</p>	<p>SEAL</p> <p>TYLER E. THOMPSON Florida P.E. No. 86558</p>	<p>MOCK • ROOS CONSULTING ENGINEERS</p> <p>5720 Corporate Way, West Palm Beach, Florida 33407 (561) 683-3113, www.MockRoos.com</p>	<p>LOXAHATCHEE RIVER SUBAQUEOUS FORCEMAIN CROSSING REPLACEMENT</p>	<p>PLAN & PROFILE VIEW</p>	<p>MAY 2024</p> <p>C1-3</p>
<p>Florida Reg. No. 48 Florida L.B. No. 48</p>		<p>LOXAHATCHEE RIVER DISTRICT</p>			
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 PLOT DATE: May 06, 2024, 11:35am
 Bar is equal to one inch on original drawing
 All dimensions in feet unless otherwise noted



(SEE SHEET C1-3) MATCHLINE

(SEE SHEET C1-5) MATCHLINE

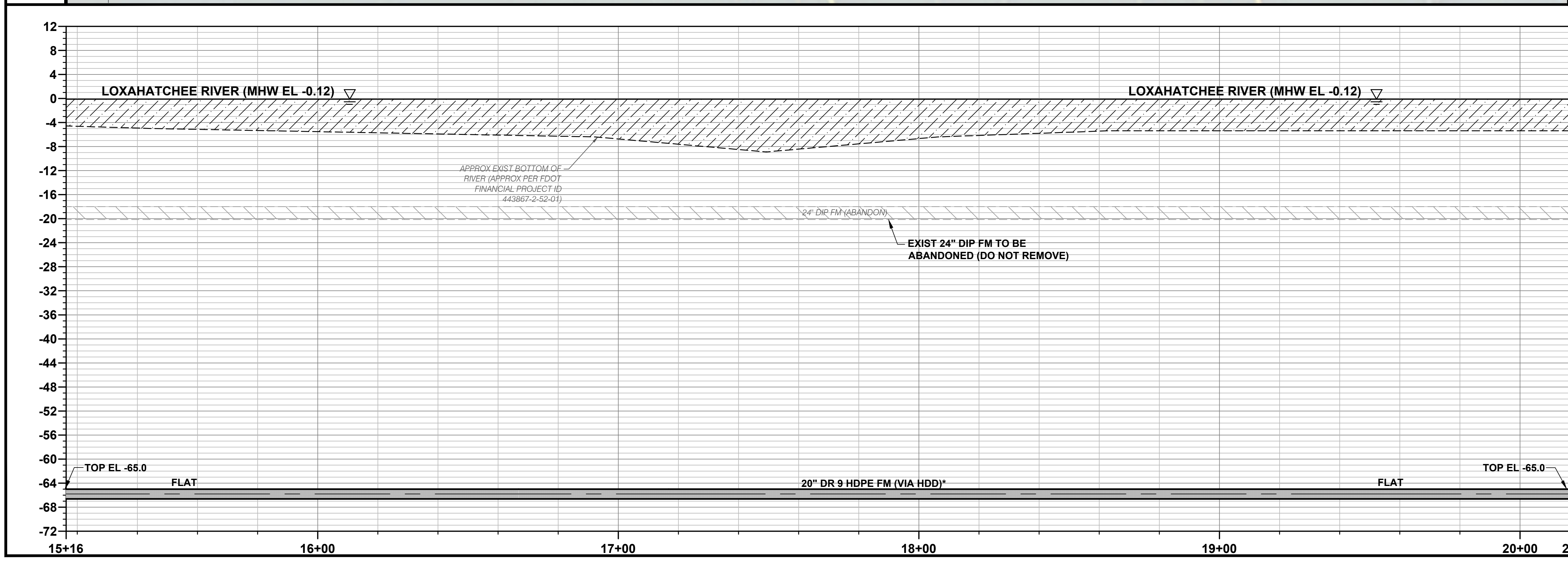
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GRAPHIC SCALE IN FEET



LEGEND

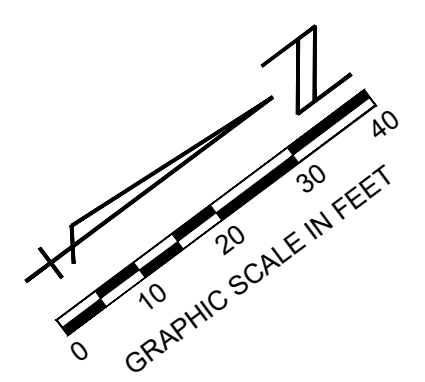
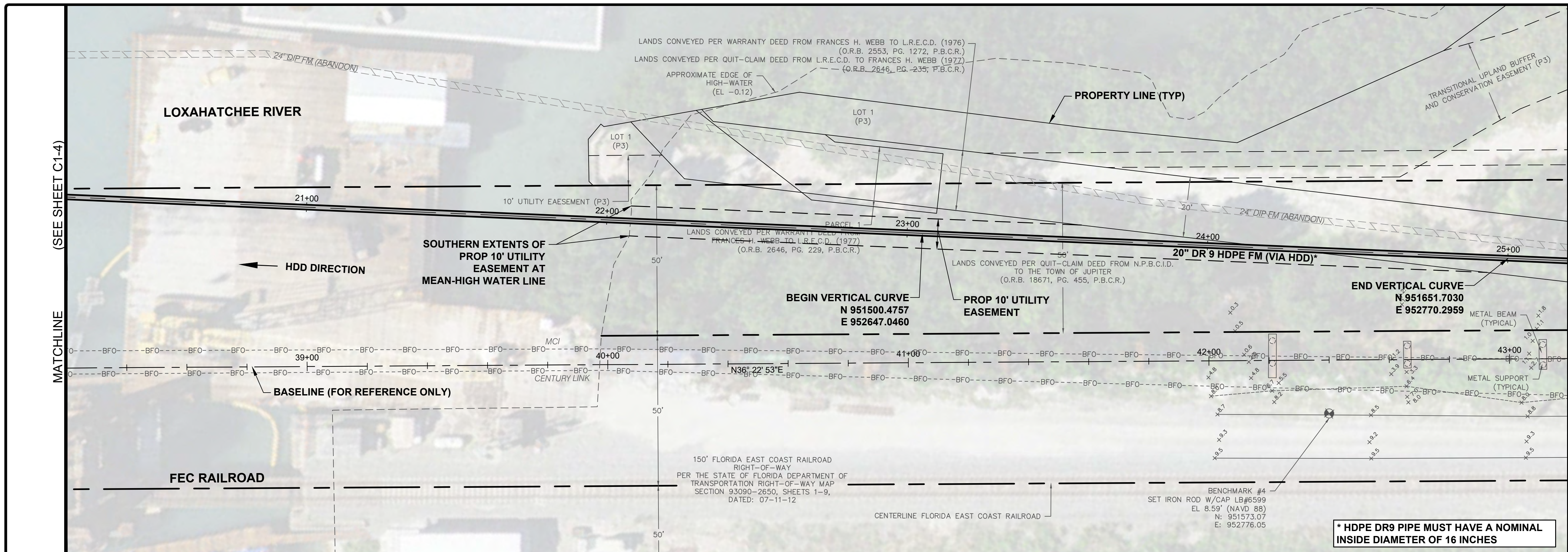
- PROP HDPE FM (VIA HDD)
- EXIST FM TO BE REMOVED OR ABANDONED
- LOXAHATCHEE RIVER SECTION

GRAPHIC SCALE IN FEET

HORIZONTAL: 0, 10, 20, 30, 40

VERTICAL: 0, 5, 10, 15, 20

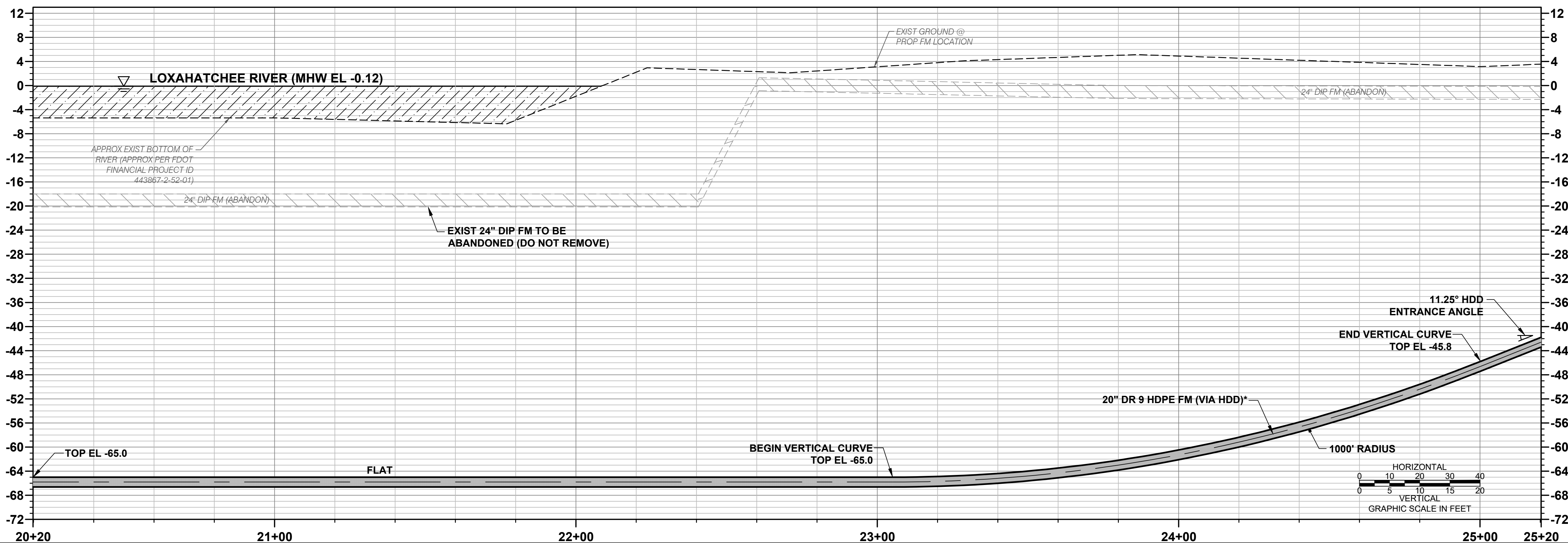
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	<table border="1"> <thead> <tr> <th>No.</th> <th>Date</th> <th>By</th> <th>Revision</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	No.	Date	By	Revision					Date	Florida L.B. No. 48	LOXAHATCHEE RIVER DISTRICT
No.	Date	By	Revision									



- NOTES:**
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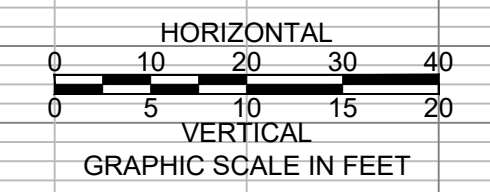
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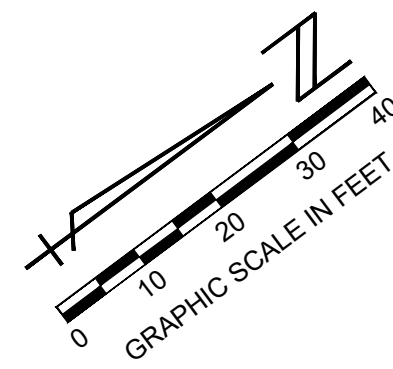
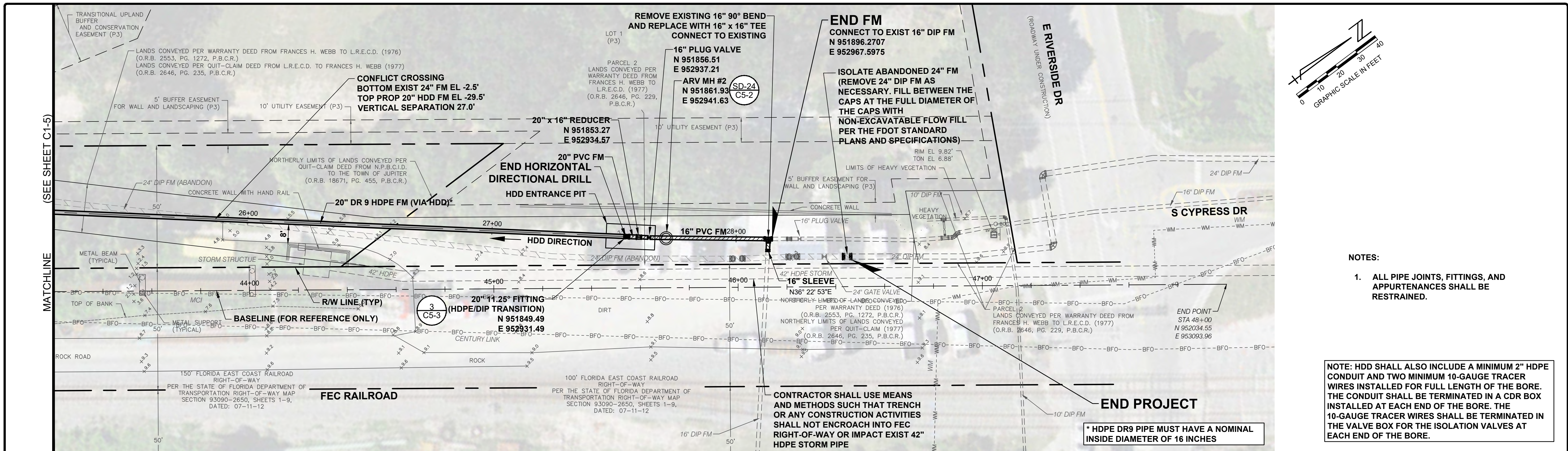
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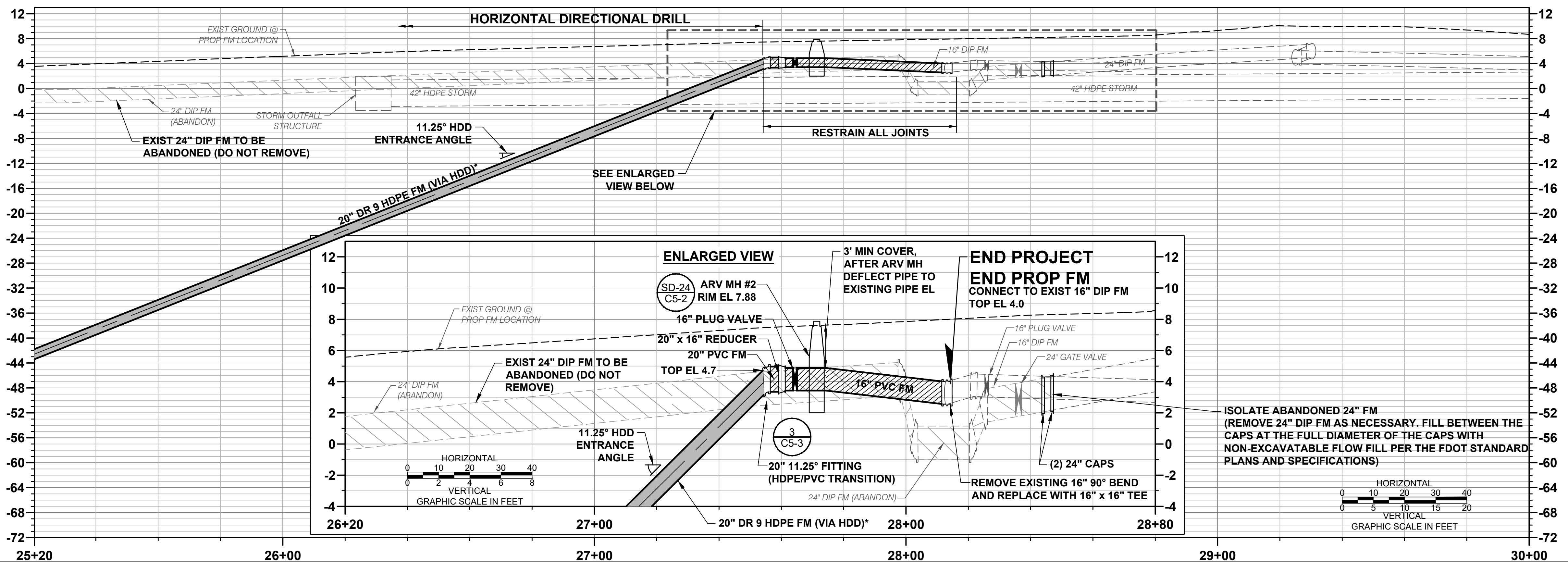
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	No.	Date				



- NOTES:
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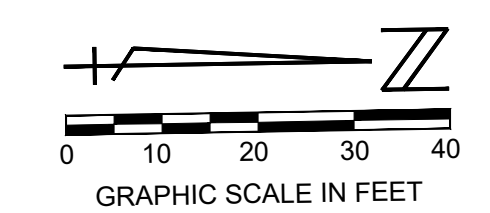
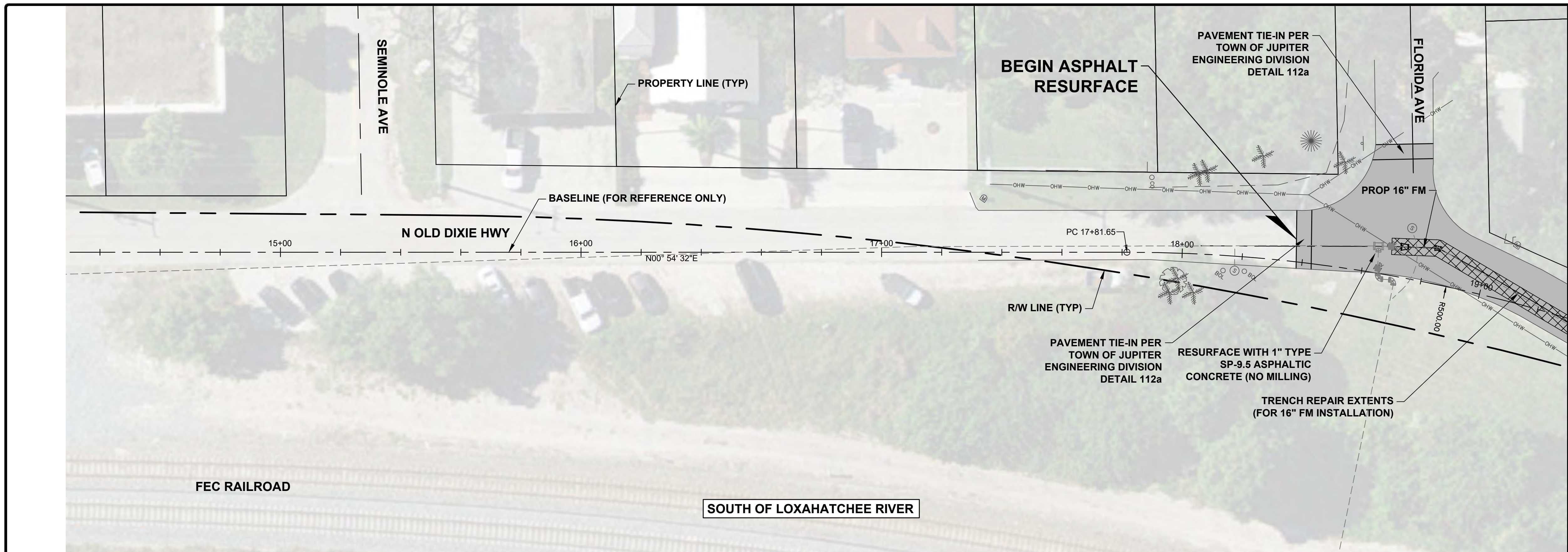
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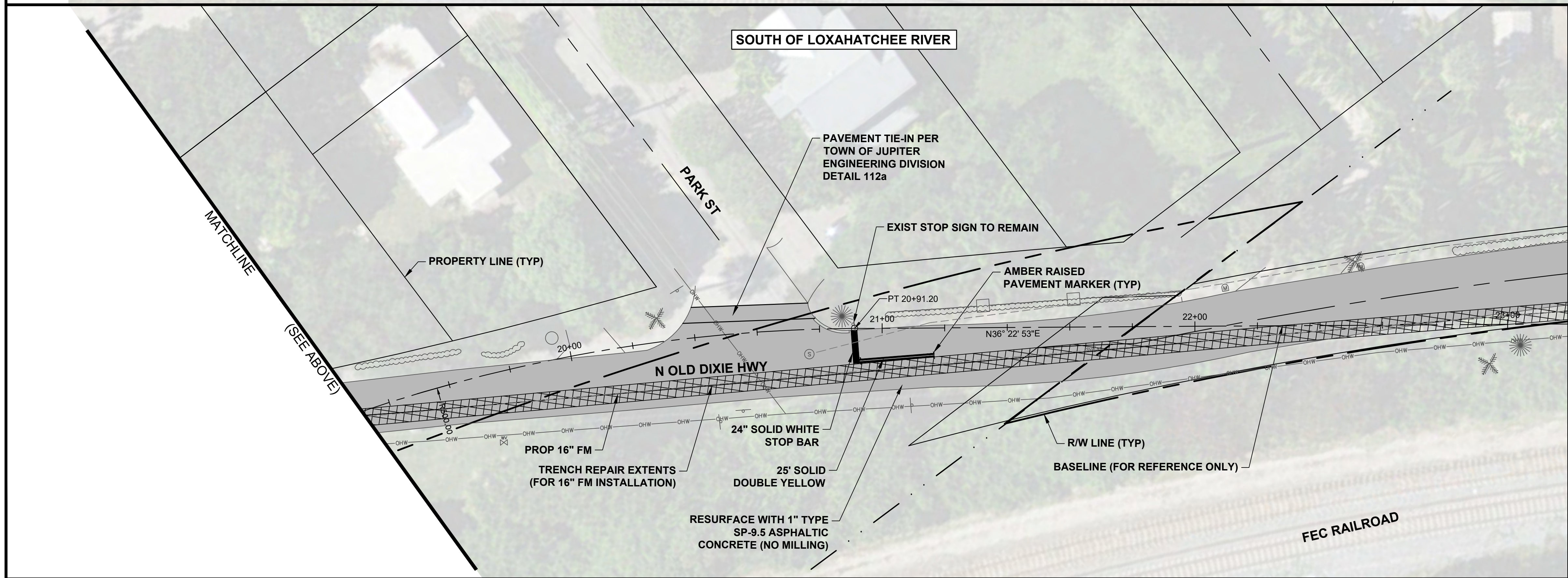
LEGEND

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- NOTES:**
1. N OLD DIXIE HWY IS WITHIN THE TOWN OF JUPITER LIMITS. SEE TOWN OF JUPITER STANDARD DETAILS FOR RESTORATION REQUIREMENTS.
 2. CONTRACTOR SHALL SOD ALL DISTURBED GRASS AREAS WITH MATCHING GRASS, AND RESTORE ALL DISTURBED VEGETATION IN-KIND.
 3. ANY VEGETATION AND RELATED MULCH BEDS AND PAVERS THAT ARE DAMAGED OR REMOVED SHALL BE REPLACED IN KIND.
 4. THE SHOULDER OF THE ROAD SHALL BE RESTORED IN ACCORDANCE WITH TOWN OF JUPITER ENGINEERING DIVISION STANDARD DETAIL 114a INCLUDING STABILIZED SHOULDER AND SODDING.
 5. ADJUST MANHOLE TOPS AND VALVE BOXES TO BE FLUSH WITH NEW ASPHALT SURFACE.



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P.A. No. C0089.40	
Dwg. No. 40-43-31-04	
Location: PALM BEACH COUNTY, FL	
No.	Date
By	Revision

SEAL

TYLER E. THOMPSON
Florida P.E. No. 86558

Date

MOCK • ROOS
CONSULTING ENGINEERS

5720 Corporate Way, West Palm Beach, Florida 33407
(561) 683-3113, www.MockRoos.com

Florida Reg. No. 48 Florida L.B. No. 48

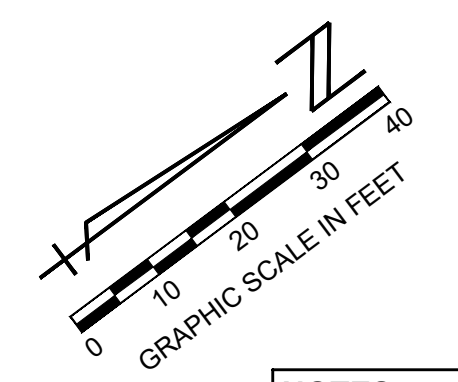
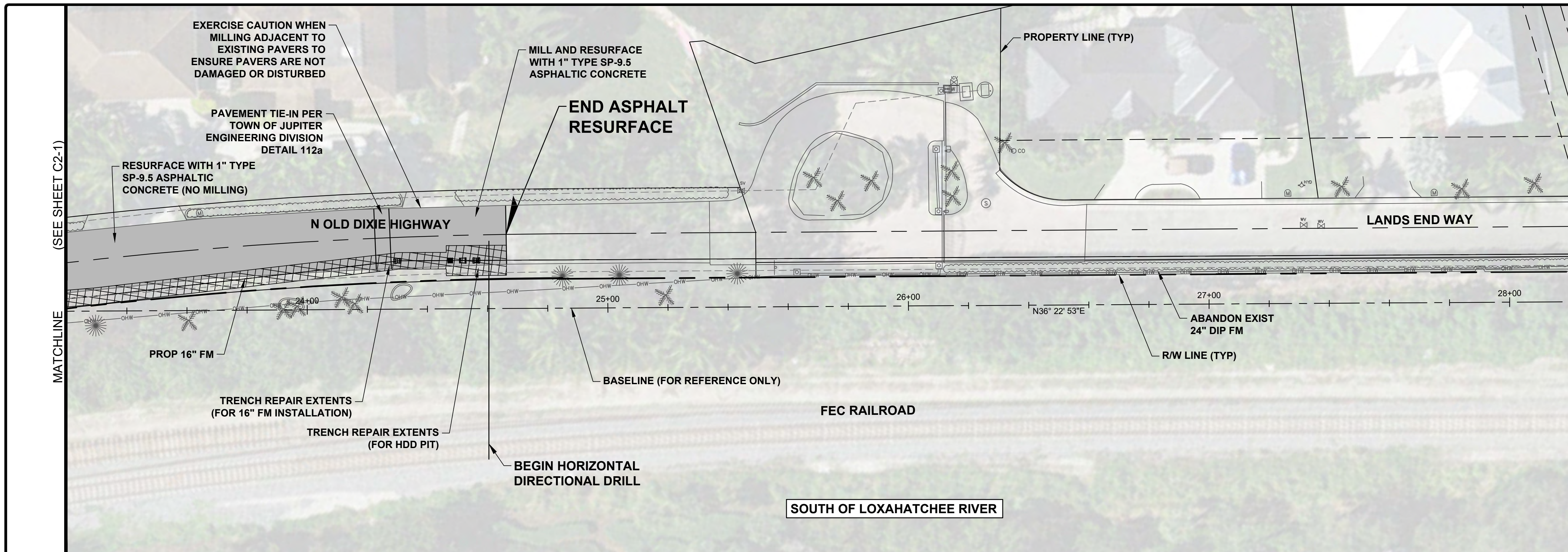
**LOXAHATCHEE RIVER
SUBAQUEOUS FORCEMAIN
CROSSING REPLACEMENT**

LOXAHATCHEE RIVER DISTRICT

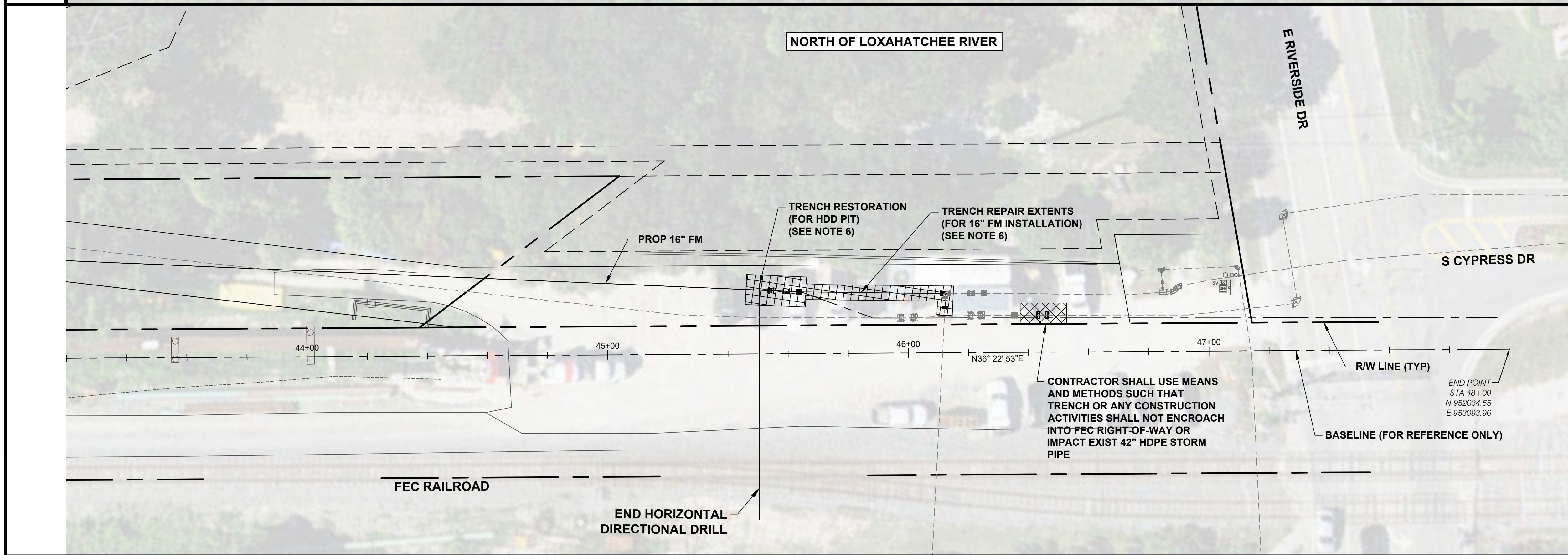
**RESTORATION PLAN
VIEW**

MAY 2024

C2-1



- NOTES:**
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 5. ADJUST MANHOLE TOPS AND VALVE BOXES TO BE FLUSH WITH NEW ASPHALT SURFACE.
 6. TRENCH RESTORATION NORTH OF LOXAHATCHEE RIVER SHALL BE IN ACCORDANCE WITH LRD STANDARD DETAIL SD-2, EXCEPT NO ASPHALT IS REQUIRED AND THE TOP OF THE ROCK BASE SHALL MATCH EXISTING GRADE.



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 Bar is equal to one inch on original drawing
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Vertical Datum: NAVD88	
Datum Conversion: NGVD29 - 1.51'	
P.A. No. C0089.40	
Dwg. No. 40-43-31-04	
Location: PALM BEACH COUNTY, FL	
No.	Date
By	Revision

SEAL

TYLER E. THOMPSON
Florida P.E. No. 86558

Date

MOCK • ROOS
CONSULTING ENGINEERS

5720 Corporate Way, West Palm Beach, Florida 33407
(561) 683-3113, www.MockRoos.com

Florida Reg. No. 48 Florida L.B. No. 48

**LOXAHATCHEE RIVER
SUBAQUEOUS FORCEMAIN
CROSSING REPLACEMENT**

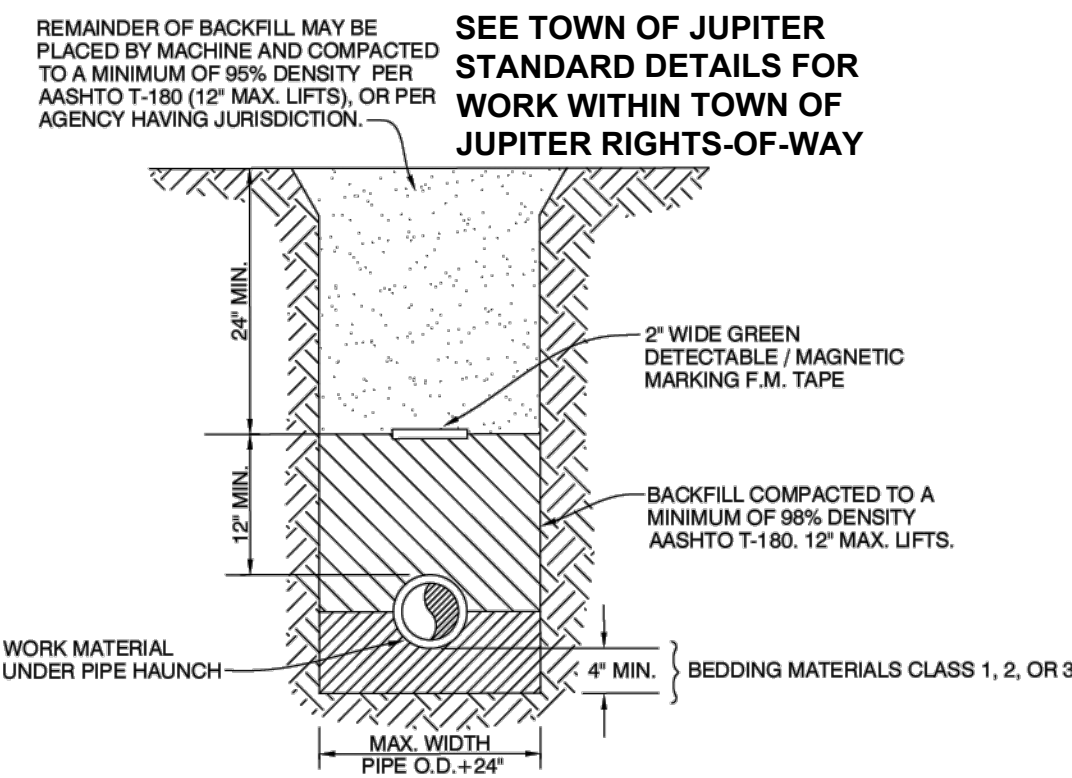
LOXAHATCHEE RIVER DISTRICT

**RESTORATION PLAN
VIEW**

MAY 2024

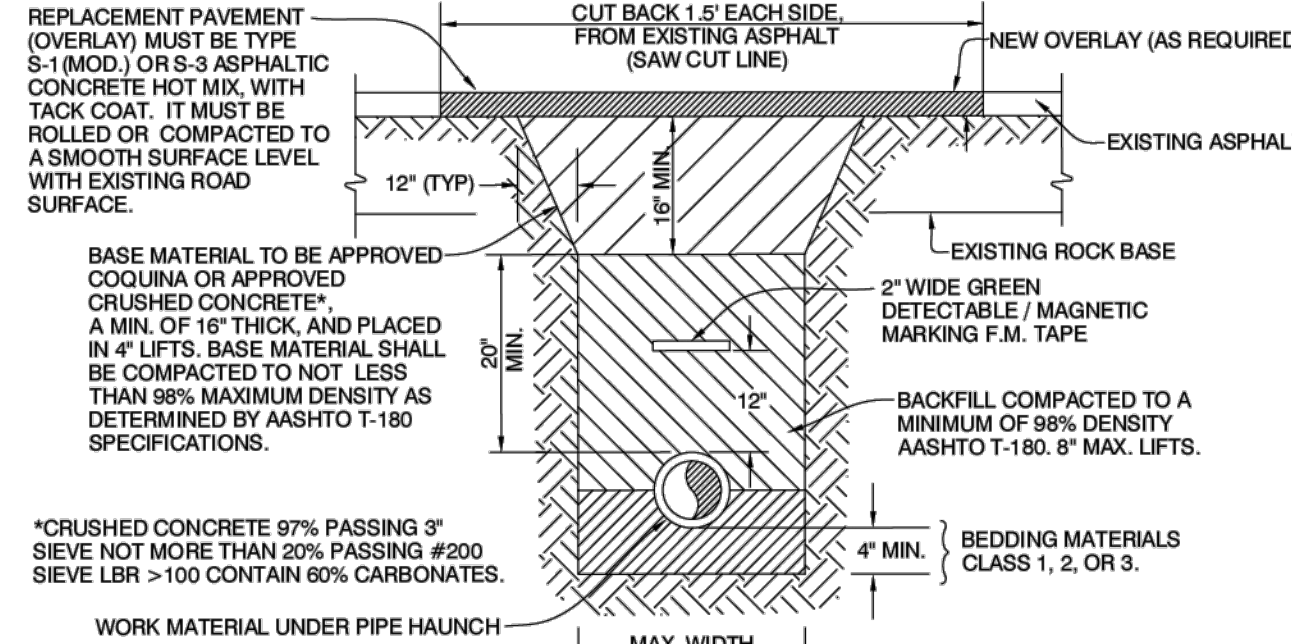
C2-2

MAY 2024



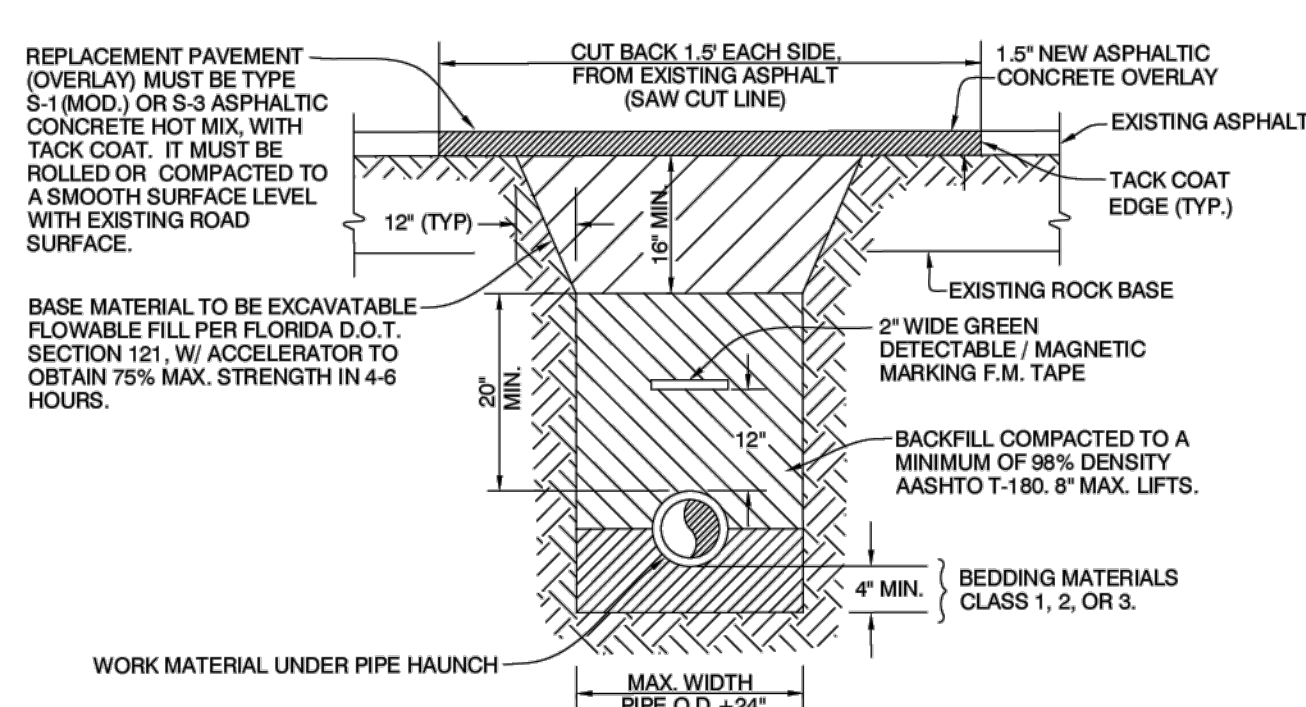
- NOTES:**
- 1. IF CLASS 1 MATERIAL IS USED FOR BEDDING, IT MUST BE USED FOR THE ENTIRE EMBEDMENT. A DRY TRENCH SHALL BE MAINTAINED WHEN USING CLASS 2 AND CLASS 3 MATERIAL.
 - 2. DENSITY TESTING IS REQUIRED IN 1 FOOT LIFTS ABOVE PIPELINE AT INTERVALS OF 400' MAXIMUM.
 - 3. UNSUITABLE IN-SITU MATERIAL SUCH AS MUCK, DEBRIS AND LARGER ROCKS SHALL BE REMOVED.
 - 4. THE AFFECTED AREA SHALL BE RESTORED TO EQUAL OR BETTER CONDITION OR AS SPECIFIED IN PERMIT / CONTRACT DOCUMENTS.
 - 5. EMS MARKER REQUIRED MINIMUM EVERY 300 FEET OF PRESSURE PIPELINE.

SD-1 TYPICAL TRENCH DETAIL
C5-1 FOR NON-PAVED AREAS



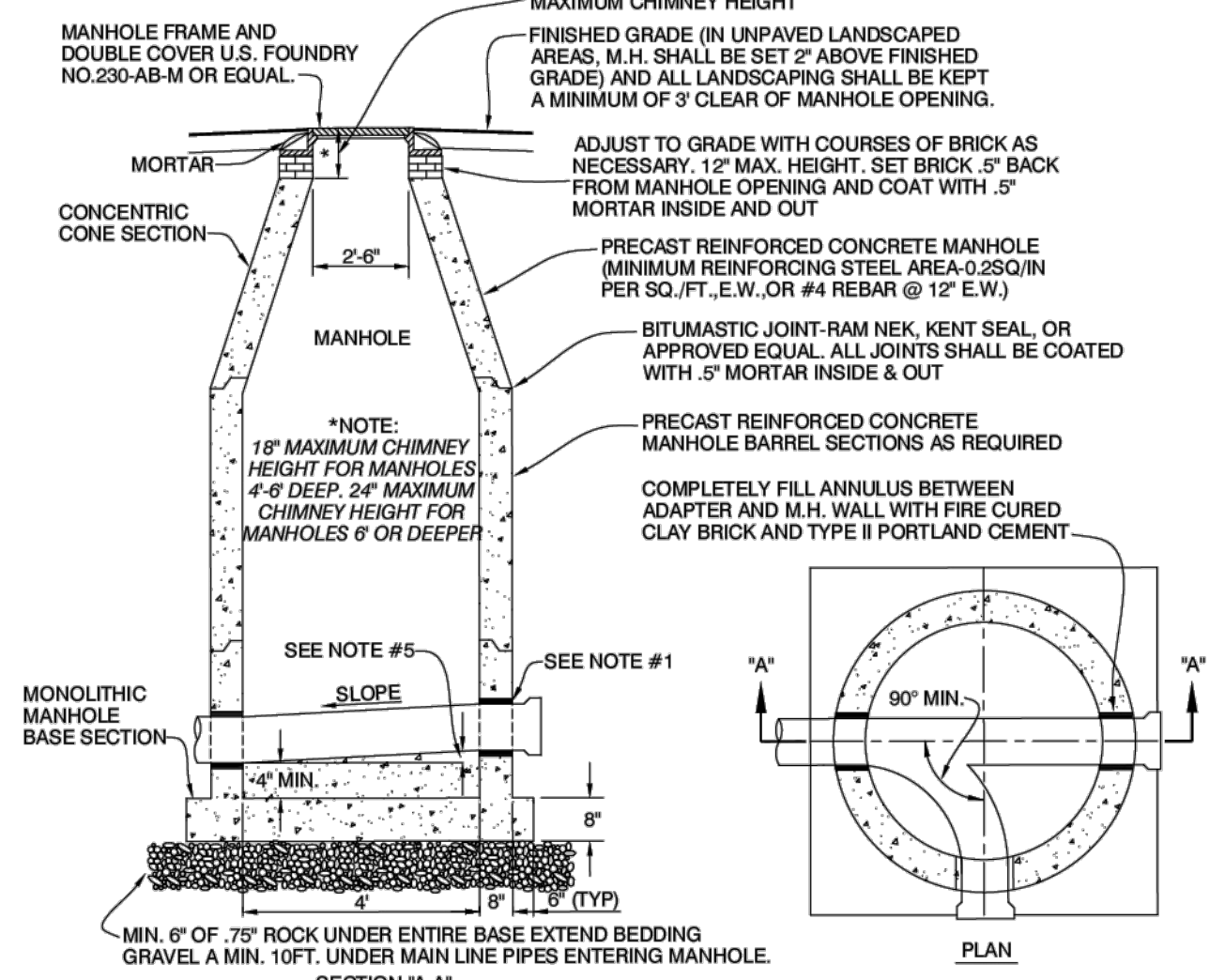
- NOTES:**
- 1. ALL CUTS WILL REQUIRE COMPACTION TO DENSITY SPECIFICATIONS.
 - 2. SAW CUT ASPHALT BEFORE EXCAVATING.
 - 3. COMPACTION MUST BE DONE BY A MECHANICAL VIBRATORY COMPACTOR. EACH LIFT MUST RECEIVE 5 PASSES OF THE COMPACTOR OVER ENTIRE SURFACE. BEFORE COMPACTION EACH LIFT, WATER MUST BE APPLIED AT THE RATE OF 1 GAL. PER LINEAL FOOT OF THE TRENCH FOR BACKFILL AND 0.5 GAL. PER LINEAL FOOT OF TRENCH FOR COQUINA BASE. WATER TO BE SPRINKLED EVENLY OVER TRENCH WIDTH.
 - 4. UNSUITABLE IN-SITU MATERIAL SUCH AS MUCK, DEBRIS AND LARGER ROCKS SHALL BE REMOVED.
 - 5. THE AFFECTED AREA SHALL BE RESTORED TO EQUAL OR BETTER CONDITION OR AS SPECIFIED IN PERMIT / CONTRACT DOCUMENTS.
 - 6. EMS MARKER REQUIRED MINIMUM EVERY 300 FEET OF PRESSURE PIPELINE.

SD-2 TYPICAL TRENCH & PAVEMENT RESTORATION DETAIL
C5-1 SEE TOWN OF JUPITER STANDARD DETAILS FOR RESTORATION WORK WITHIN TOWN OF JUPITER RIGHTS-OF-WAY



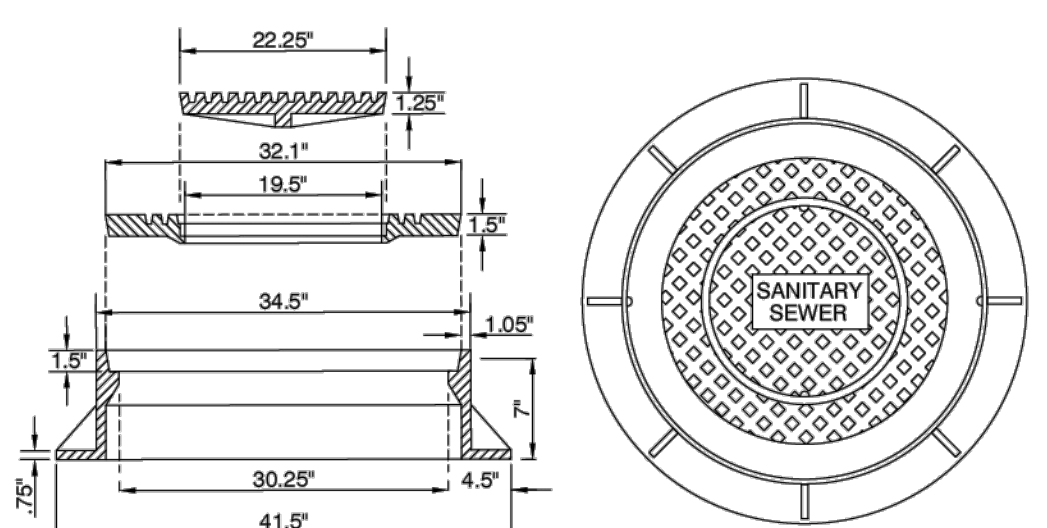
- NOTES:**
- 1. ALL CUTS WILL REQUIRE COMPACTION TO DENSITY SPECIFICATIONS.
 - 2. SAW CUT ASPHALT BEFORE EXCAVATING.
 - 3. COMPACTION MUST BE DONE BY A MECHANICAL VIBRATORY COMPACTOR. EACH LIFT MUST RECEIVE 5 PASSES OF THE COMPACTOR OVER ENTIRE SURFACE. BEFORE COMPACTION EACH LIFT, WATER MUST BE APPLIED AT THE RATE OF 1 GAL. PER LINEAL FOOT OF THE TRENCH FOR BACKFILL AND 0.5 GAL. PER LINEAL FOOT OF TRENCH FOR COQUINA BASE. WATER TO BE SPRINKLED EVENLY OVER TRENCH WIDTH.
 - 4. UNSUITABLE IN-SITU MATERIAL SUCH AS MUCK, DEBRIS AND LARGER ROCKS SHALL BE REMOVED.
 - 5. THE AFFECTED AREA SHALL BE RESTORED TO EQUAL OR BETTER CONDITION OR AS SPECIFIED IN PERMIT / CONTRACT DOCUMENTS.
 - 6. EMS MARKER REQUIRED MINIMUM EVERY 300 FEET OF PRESSURE PIPELINE.

SD-3 TYPICAL TRENCH & PAVEMENT RESTORATION W/ FLOWABLE FILL DETAIL
C5-1 SEE TOWN OF JUPITER STANDARD DETAILS FOR RESTORATION WORK WITHIN TOWN OF JUPITER RIGHTS-OF-WAY



- NOTES:**
- 1. WHEN THE MAIN LINE IS PVC, A DISTRICT APPROVED HEAVY AGGREGATE COATED PVC M.H. ADAPTER (HARCO OR EQUAL) OR FERRO M.H. ADAPTER SHALL BE USED. CAST IN PLACE RUBBER BOOTS WITH STAINLESS STEEL HARDWARE (CAST-A-SEAL 12-08 FOR 6" 2-LOG C-107 FOR ALL OTHER SIZES) MAY BE USED AS AN ALTERNATE.
 - 2. CHANNEL WIDTHS AND INVERT RADI VARY UNIFORMLY FROM END TO END.
 - 3. ALL HOLES FOR PIPES SHALL BE CAST INTO THE MANHOLES. OPENINGS REQUIRED ON ALL EXISTING MANHOLES SHALL BE CORED WITH APPROVED MACHINES.
 - 4. WHEN INVERT DIFFERENTIALS BETWEEN PIPES ENTERING MANHOLES IS 2' OR LESS, A 'SLIDE' TYPE FLOW CHANNEL SHALL BE CONSTRUCTED TO FORM A SMOOTH FLOW TRANSITION. WHEN TWO (2) OR MORE 'SLIDES' HAVE AN INVERT DIFFERENTIAL OF GREATER THAN 2' AND LESS THAN 4', THE MANHOLE SHALL BE 5'-0". ALL INSIDE DROP MANHOLES SHALL BE 6' I.D. (SEE DETAIL SD-12).
 - 5. A MINIMUM DIFFERENTIAL OF 1' SHALL BE PROVIDED BETWEEN THE INLET AND OUTLET PIPE INVERTS.
 - 6. ALL MANHOLES 14" OR MORE FROM RIM TO LOWEST INVERT, SHALL RECEIVE A MINIMUM 0.25" THICK COATING OF SEWPERCOAT OR APPROVED EQUAL.
 - 7. ALL MANHOLES IN A WELL FIELD PROTECTION ZONE 1 OR 2, SHALL RECEIVE A MINIMUM 1" THICK COATING OF SEWPERCOAT OR APPROVED EQUAL.

SD-11 PRECAST MANHOLE DETAIL
C5-1



- NOTES:**
- 1. U.S.F. #230-AB-M MANHOLE RING & DOUBLE COVER, APPROXIMATE TOTAL WEIGHT 605 POUNDS.
 - 2. IN CASES WHERE A SHALLOW FRAME IS REQUIRED USF MODEL #655 MAY BE SUBSTITUTED FOR MODEL #230-AB-M

SD-13 MANHOLE FRAME AND COVER DETAIL
C5-1

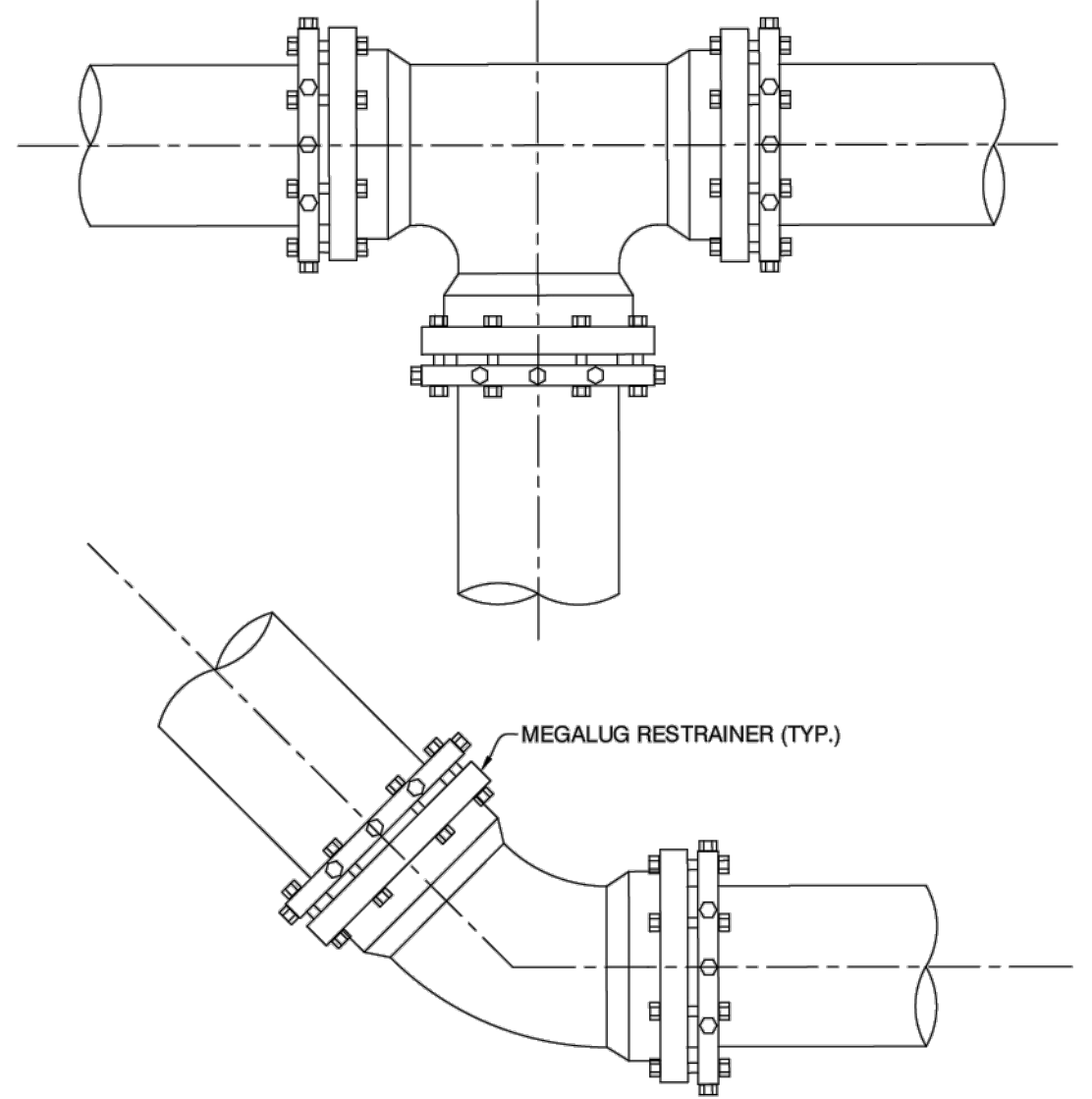
TYPE	MINIMUM LENGTH (FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S)									
	PIPE SIZE									
	4"	6"	8"	10"	12"	16"	20"	24"	30"	36"
90° BEND	18	24	31	38	43	55	65	75	88	100
45° BEND	8	10	13	15	18	23	26	31	38	43
22-1/2° BEND	4	5	6	8	9	11	13	15	18	20
11-1/4° BEND	2	3	4	5	6	8	9	10	11	13
PLUG OR BRANCH OF TEE	38	50	65	79	90	117	139	163	194	223
VALVE	19	25	32	40	45	59	70	82	98	112
REDUCER	VARIES BY SIZE; TO BE DETERMINED BY THE DESIGN ENGINEER									

- NOTES:**
- 1. FITTINGS SHALL HAVE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED.
 - 2. INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN LENGTH SHOWN IN THE TABLE.
 - 3. WHERE TWO OR MORE FITTINGS ARE IN SERIES, SELECT FITTING RESTRAINT LENGTH THAT YIELDS THE LONGEST RESTRAINT DISTANCE.
 - 4. ALL INLINE VALVES SHALL BE RESTRAINED.
 - 5. WHERE INTERNAL RESTRAINED JOINTS ARE USED, THE ENTIRE BELL SHALL BE PAINTED RED.
 - 6. LENGTHS SHOWN IN THE TABLE WERE CALCULATED IN ACCORDANCE WITH PROCEDURES OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" GUIDELINES PUBLISHED BY DIPRA, USING THE ASSUMPTIONS SHOWN BELOW.

WORKING PRESSURE: 100 PSI
SOIL DESIGNATION: SM (SAND SILT)
LAYING CONDITIONS: 3
DEPTH OF COVER: 3 FT
SAFETY FACTOR: 1.5
CONVERSION FACTOR FOR PVC PIPE: 1.25

THE DESIGN ENGINEER SHALL INCREASE THE VALUES IN THE TABLE AS WARRANTED BY SITE-SPECIFIC PARAMETERS, SUCH AS SOIL DESIGNATIONS AND LAYING CONDITIONS.

SD-18 FORCEMAIN THRUST RESTRAINT CHART
C5-1



- NOTES:**
- 1. RETAINER GLANDS FOR PVC PIPE OR DUCTILE IRON PIPE SHALL BE USED AT BENDS OR TEES; RETAINER GLANDS SHALL BE MANUFACTURED BY UNI-FLANGE CORP., OR "MEGALUG" BY EBAA IRON SALES INC., OR DISTRICT APPROVED EQUAL.
 - 2. THE NUMBER OF JOINTS RESTRAINED EACH SIDE OF ANY FITTING OR VALVE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATION.
 - 3. ALL BENDS & TEES SHALL HAVE AN EMS INSTALLED.

SD-19 FORCEMAIN THRUST RESTRAINT DETAIL
C5-1

CADD File: J:\td_suba\CADD\DWGS\SUBA\CS01_C5-1.dwg
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Bar is equal to one inch on original drawing.

Vertical Datum: NAVD88			
Datum Conversion: NGVD29 - 1.51'			
P.A. No. C0089 40			
Dwg. No. 40-43-31-04			
Location: PALM BEACH COUNTY, FL			
No.	Date	By	Revision

SEAL

TYLER E. THOMPSON
Florida P.E. No. 86558

Date

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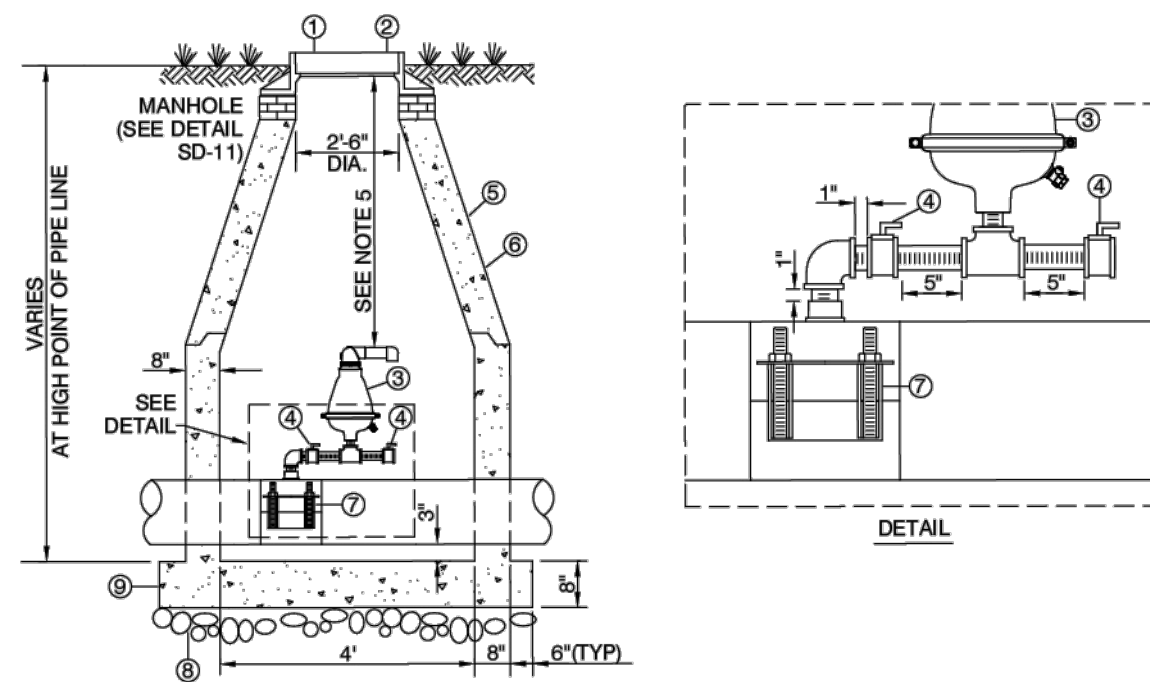
LOXAHATCHEE RIVER
SUBAQUEOUS FORCEMAIN
CROSSING REPLACEMENT

LOXAHATCHEE RIVER DISTRICT

LRD DETAILS

MAY 2024

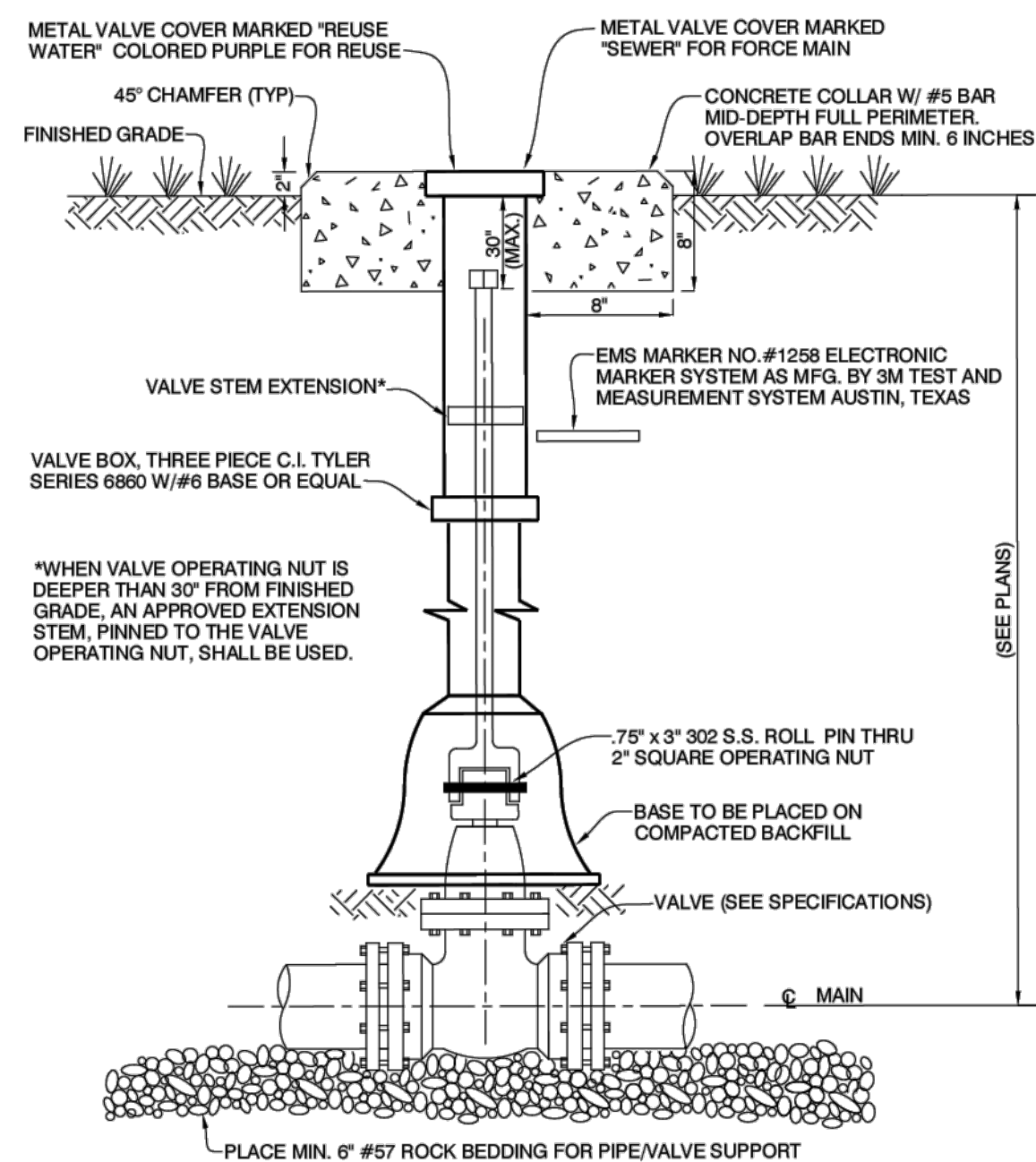
C5-1



- ① MH COVER TO BE PLACED 2" ABOVE FINISHED GRADE IN LANDSCAPE AREAS
- ② FRAME AND DOUBLE COVER U.S. FOUNDRY #230-AB-M OR EQUAL
- ③ A.R.I. MODEL #D-025, SHORT VERSION COMBINATION AIR VALVE
- ④ 2" 316 SS BALL VALVE, M3MASTER - CARR, MODEL #4649K025 OR APPROVED EQUAL
- ⑤ PRE CAST CONE SECTION
- ⑥ 4" DIA. PRE CAST M.H. SECTION PER A.S.T.M. C-478
- ⑦ 316 SS DOUBLE BOLT SERVICE SADDLE W/ 2" N.P.T. THREADED OUTLET. THE SERVICE SADDLE & HARDWARE SHALL ALL BE 316 SS
- ⑧ MIN. 6" OF .75" GRAVEL UNDER ENTIRE BASE
- ⑨ MONOLITHIC BASE SECTION

- NOTES:**
1. ALL MATERIAL, FITTINGS, VALVES, NIPPLES, AND HARDWARE TO BE MIN. 304 SS INSIDE MANHOLE.
 2. VALVES SHALL HAVE ALL LOCKING MECHANISMS REMOVED, BE IN THE UPRIGHT POSITION, ACCESSIBLE AND OPERATIONAL VIA VALVE KEY FROM ABOVE.
 3. CENTER ARV UNDER MANHOLE OPENING.
 4. IN SITUATIONS WHERE A FORCE MAIN CROSSES A CANAL OR IS ATTACHED TO A BRIDGE, WHERE A STRUCTURE IS NOT NECESSARY, AN A.R.V. TYPE A.R.I. MODEL #D-025 SHALL BE USED.
 5. TOP OF AIR RELEASE VALVES SHALL BE NO LESS THAN 12" FROM INSIDE MANHOLE RIM ELEVATION AND NO GREATER THAN 24".
 6. MANHOLE COVER SHALL BE MARKED "SEWER".

SD-24 AUTOMATIC AIR RELEASE
C5-2 VALVE DETAIL



FORCE MAIN OR REUSE WATER SYSTEM

SD-27 BURIED VALVE DETAIL
C5-2

RECORD DRAWING SUBMITTAL GUIDE

1. TWO (2) SETS OF FULL SIZE PRINTS SHALL BE SUBMITTED TO THE DISTRICT FOR REVIEW 48 HOURS PRIOR TO REQUESTING INSPECTIONS SUCH AS, FINAL INSPECTION, PRESSURE TESTS, SANITARY SEWER LAMPING OR ANY OTHER ELEMENT OF THE SYSTEM WHICH IS DETERMINED BY THE DISTRICT TO REQUIRE CLARIFICATION.
2. THE DRAWINGS WILL BE REVIEWED BY THE DISTRICT FOR DEFICIENCIES. DEFICIENCIES WILL BE INDICATED ON ONE (1) SET OF PRINTS WHICH WILL BE RETURNED TO THE E.O.R. OR CONTRACTOR FOR NECESSARY CORRECTIVE ACTION.
3. UPON CORRECTION, TWO (2) SETS OF FULL SIZE PRINTS (SIGNED/SEALED BY A FLORIDA LICENSED SURVEYOR) SHALL BE SUBMITTED AND A GEOREFERENCED DESIGN AUTOCAD FILE (VERSION 2020 OR LATER).
4. NO DISCLAIMERS ON DRAWINGS WILL BE ACCEPTED.
5. UPON FINAL SUBMITTAL OF RECORD DRAWINGS, A GEOREFERENCED AUTOCAD FILE (VERSION 2020 OR LATER) AND AN ADOBE PDF 24"x36" FILE SHALL BE FURNISHED ON A CD/DVD DISK, THUMB DRIVE OR DOWNLOADABLE LINK EMAILED TO THE DISTRICT. ONLY (1) CAD FILE WITH ALL SHEETS OF RECORD DRAWINGS ALLOWED.

REQUIRED INFORMATION ON RECORD DRAWINGS

GENERAL:

1. DRAWINGS ON 24" X 36" BOND PAPER THAT WILL REPRODUCE LEGIBLY.
2. LABEL EACH PLAN SHEET "RECORD DRAWINGS" WITH DATE, COMPLETED TITLE BLOCK WITH CURRENT FILE NAME, SIGNED & SEALED BY A FLORIDA LICENSED PROFESSIONAL LAND SURVEYOR.
3. ALL SEWER ITEMS SHALL BE CATEGORIZED AND ASSIGNED TO THE DRAWING LAYERS SUCH AS: AB-MANHOLES, AB-FORCEMAIN, AB-VALVE, AB-GRAVITY MAIN, ETC.
4. REDRAW ALL SEWER LINES AND INFRASTRUCTURE ON RECORD DRAWINGS AS CONSTRUCTED HORIZONTALLY & VERTICALLY, BOLD, OR HEAVY LINE WORK & TEXT CALL OUTS TO STAND OUT FROM REST OF DRAWING. USING ORIGINAL DESIGN LINENWORK & ONLY UPDATING THE CORRESPONDING TEXT CALLOUTS WILL NOT BE ACCEPTED AS RECORD DRAWINGS.
5. ALL ITEMS LISTED BELOW MUST BE CORRECTLY GEOREFERENCED WITH NORTHINGS/EASTINGS CLEARLY SHOWN. THE AS BUILTS SHALL BE GEOREFERENCED TO THE STATE PLANE COORDINATES IN NAD 83, FLORIDA EAST ZONE, WHILE THE VERTICAL DATUM SHALL BE NGVD 29.

GRAVITY SEWER:

1. AS-BUILT DISTANCE OF GRAVITY MAIN FROM CENTER LINE OF ROAD OR EASEMENT RIGHT- OF-WAY LINE, BUILDINGS, OR AS DETERMINED BY THE LOXAHATCHEE RIVER DISTRICT. EXTENSIONS OF AN IMAGINARY LINE WILL NOT BE ACCEPTABLE AS REFERENCED POINTS.
2. TYPE OF MATERIALS INSTALLED - MAINS AND SERVICES.
3. SHOW EACH SEWER SERVICE LATERAL INCLUDING THE CONNECTION TO THE MAIN AND PROVIDE THE NORTHING & EASTING POINTS FOR EACH CLEANOUT & INDICATE CLEANOUT DIAMETER & INVERT ELEVATION.
4. AS-BUILT LOCATIONS OF MANHOLES WITH A NORTHING & EASTING PROVIDED.
5. AS-BUILT ELEVATIONS, RIM ELEVATION, EACH INVERT AND PIPE SLOPE.
6. UPDATE LIFT STATION DETAILS/ELEVATIONS INCLUDING START UP DATA.
7. LIFT STATION AND UTILITY EASEMENTS, INCLUDING LOCATION OF F.P.&L. SERVICE TO CONTROL PANEL.

PRESSURE PIPE:

1. AS BUILT DISTANCE OF FORCE MAINS AT 100' INTERVALS FROM CENTER LINE OF ROAD, EASEMENT, RIGHT-OF-WAY LINE, BUILDINGS, SEWER MAINS OR AS DETERMINED BY THE LOXAHATCHEE RIVER DISTRICT. EXTENSIONS OF AN IMAGINARY LINE WILL NOT BE ACCEPTABLE AS REFERENCED POINTS.
2. SHOW ELEVATIONS, NORTHING/EASTING OF EACH VALVE, FITTING, AIR RELEASE VALVE, SERVICE LINE, TAP, ETC.
3. TYPE OF MATERIALS INSTALLED - PIPE AND APPURTENANCES. INDICATE ALL LOCATIONS OF CHANGE OF MATERIAL INCLUDING JOINT TYPE (M.J., SLIP, RESTRAINED).
4. VALVE TYPE (BUTTERFLY, GATE, PLUG) INCLUDING THE NORTHING & EASTING POINT.
5. AS BUILT LENGTH OF ALL JACK AND BORE CASINGS INDICATING DISTANCE FROM CENTER LINE OF PAVING TO EACH END OF CASING. THE AS BUILT INVERT ELEVATION OF EACH END OF CASING, (INCLUDING NORTHING/EASTING) AND AS BUILT DISTANCE FROM EACH END OF CASING TO LIMITS OF MECHANICAL JOINT PIPE IS ALSO REQUIRED.
6. AS BUILT ELEVATIONS AT 100' INTERVALS AS WELL AS ANY MAJOR CHANGES IN DIRECTION AND/OR ELEVATION. ELEVATIONS SHOWN AT THESE INTERVALS AND CHANGES MUST SHOW TOP OF PIPE ELEVATION, NORTHING/EASTING AND FINISHED GRADE ELEVATION AT THAT LOCATION. SHOW LOCATION OF EMS MARKERS.
7. UTILITY EASEMENTS SHALL BE CORRECTLY SHOWN AND DIMENSIONED WITH REFERENCED SEWER FACILITY.

SD-29 RECORD DRAWING SUBMITTAL GUIDE
C5-2

SEPARATION REQUIREMENTS

62-555.314 F.A.C. AUGUST 28, 2003

1. HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.

A. NEW OR RELOCATED UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

B. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.

C. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY- OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.

2. VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER PIPELINES.

A. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

B. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE- TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATERMAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

C. AT THE UTILITY CROSSING DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C., AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

*REQUIRED BY: HRS, STATE OF FLORIDA, PALM BEACH COUNTY PUBLIC HEALTH UNIT

SD-30 STANDARD WATER AND SEWER
C5-2 SEPARATION STATEMENT

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 All dimensions in feet and inches unless otherwise noted.
 Bar is equal to one inch on original drawing.

Vertical Datum: NAVD88			
Datum Conversion: NGVD29 - 1.51'			
P.A. No. C0089 40			
Dwg. No. 40-43-31-04			
Location: PALM BEACH COUNTY, FL			
No.	Date	By	Revision

SEAL

TYLER E. THOMPSON
Florida P.E. No. 86558

Date

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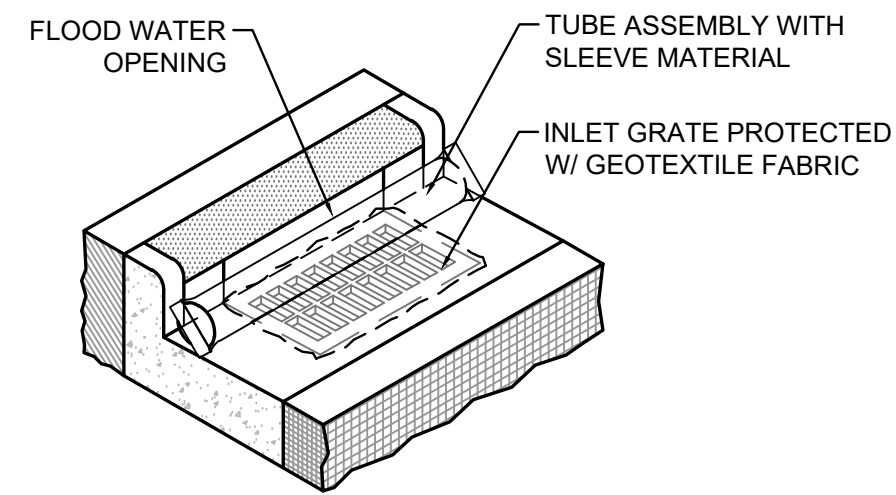
LOXAHATCHEE RIVER
SUBAQUEOUS FORCEMAIN
CROSSING REPLACEMENT

LOXAHATCHEE RIVER DISTRICT

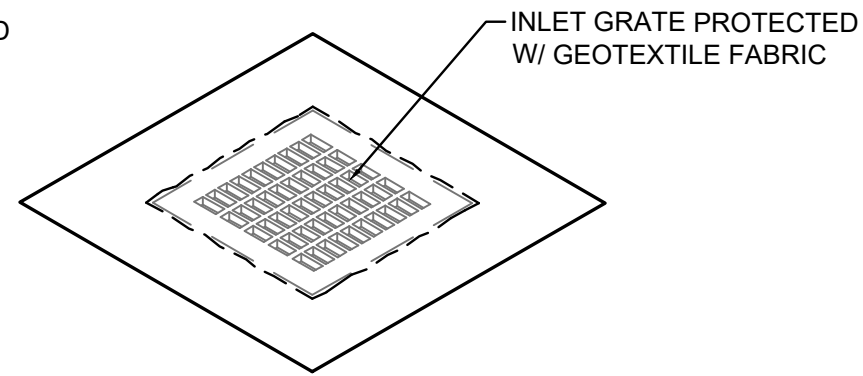
LRD DETAILS

MAY 2024

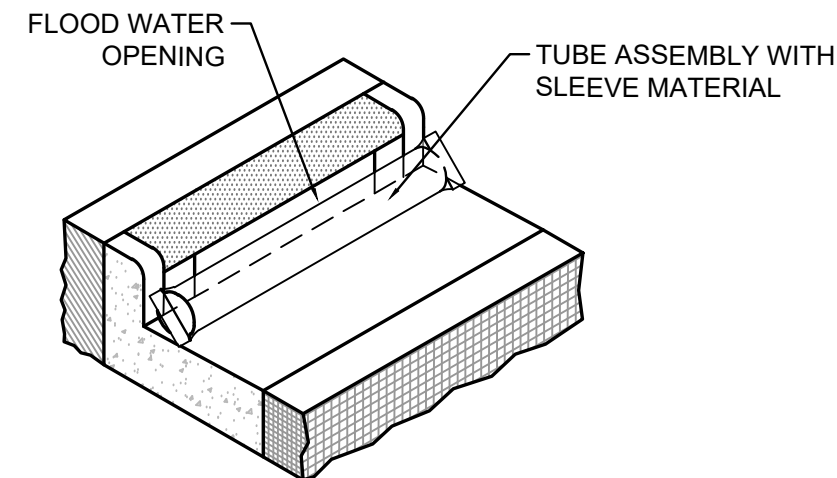
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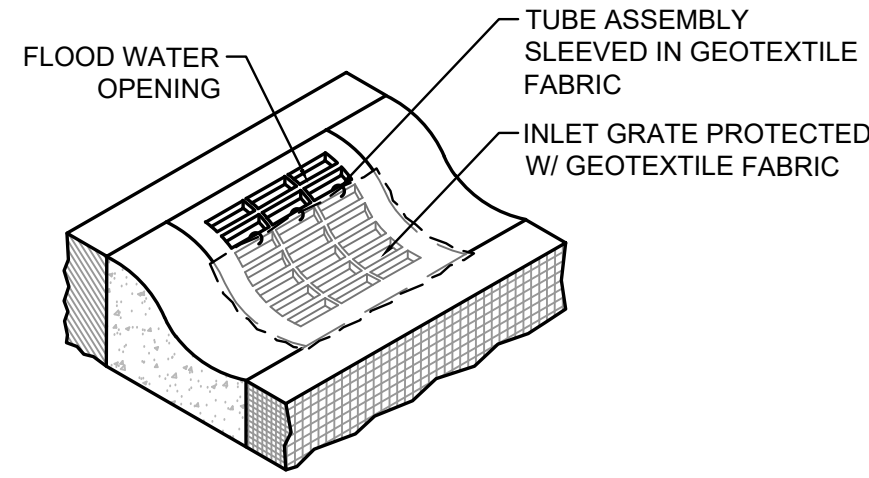
GRATE COVER & TUBE



GRATE COVER



TUBE INLET PROTECTION

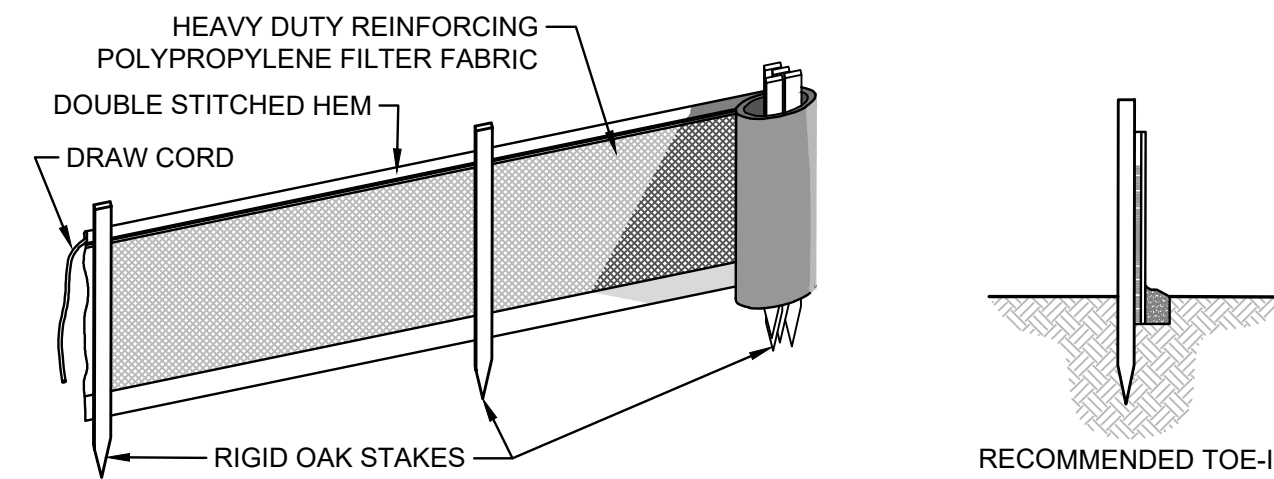


GRATE COVER

1 STORM INLET SEDIMENT PROTECTION
C5-3 N.T.S.

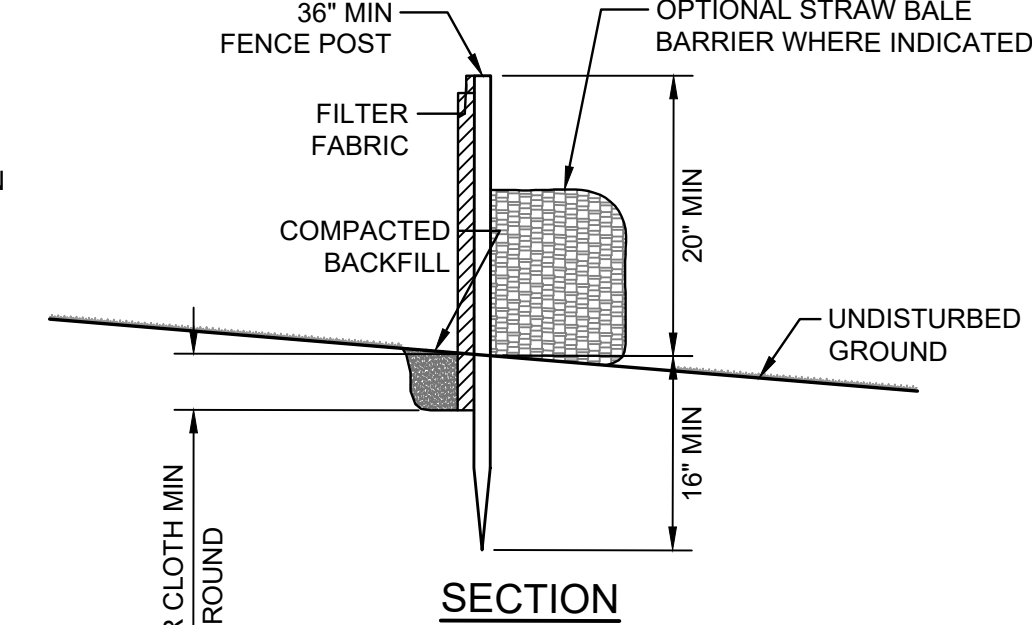
NOTES

1. SLEEVE MATERIAL AND GEOTEXTILE FABRIC SHALL BE SedCatch, OR APPROVED EQUAL.
2. INLET PROTECTION SHOULD BE INSTALLED AT THE TIME THE STRUCTURE IS SET.
3. INSPECT AFTER EACH RAIN OR AS DIRECTED BY ENGINEER OR INSPECTOR.
4. REMOVE ANY ACCUMULATED SEDIMENT AFTER EACH RAIN.
5. GRATE COVER INSTALLATION: CUT A PIECE OF GEOTEXTILE 1 FOOT LARGER THAN GRATE. PLACE GRATE UPSIDE DOWN ON GEOTEXTILE. FOLD SIDES IN TOWARD AND SECURE. REPLACE GRATE.
6. TUBE ASSEMBLY AND INSTALLATION: CUT A PIECE OF SLEEVE MATERIAL 2 FEET LONGER THAN OPENING. CUT A CORRUGATED DRAIN PIPE ONE FOOT LONGER THAN OPENING. INSERT PIPE IN SLEEVE AND CLOSE ONE END WITH HOG RINGS OR OTHER METHOD. INSERT SCHEDULE 40, CONDUIT, OR TUBING THAT WILL KEEP THE PIPE STRAIGHT. FILL WITH TWO POUNDS OF GRAVEL PER LINEAL FOOT. CLOSE END. SECURE TO GRATE OR TO STAKES IN THE GRASS TO PREVENT TUBE FROM BECOMING A TRAFFIC HAZARD.
7. AS WITH ALL INLET PROTECTION DEVICES, CHECK TO SEE HOW DEEP THE WATER COULD RISE IF THE INLET WERE TO BE BLOCKED ENTIRELY. DO NOT INSTALL IF IT COULD CAUSE PROPERTY DAMAGE OR POSE A SAFETY HAZARD TO TRAFFIC.



POSTS:

STEEL, EITHER "T" OR "U" TYPE OR 2" HARDWOOD
 FILTER FABRIC: PER FDOT STANDARD SPECIFICATION PER FDOT INDEX 102
 PREFABRICATED UNIT: GEOFAB, ENVIRO-FENCE, OR APPROVED EQUAL

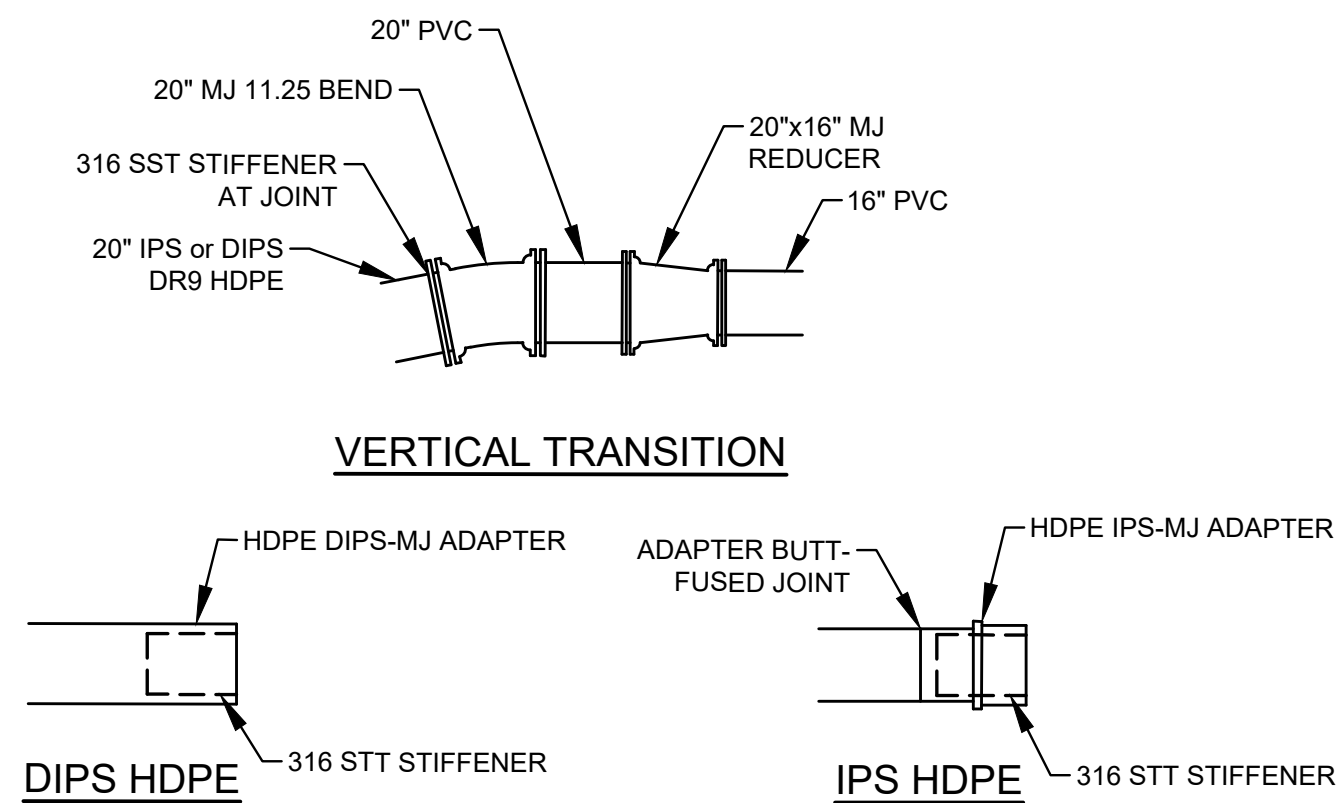


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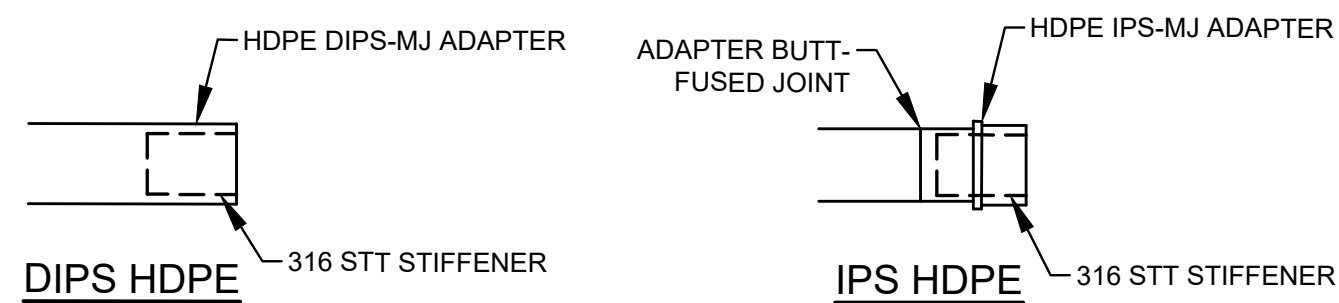
NOTES

1. FILTER FABRIC FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO POSTS WITH TIES SPACED EVERY 24 INCHES AT TOP AND MID. SECTION. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE OR DEPTH OF ACCUMULATED SEDIMENT REACHES 6 INCHES.
4. SILT FENCE SHALL BE INSTALLED PER MANUFACTURES SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION AND SHALL NOT BE REMOVED UNTIL CONSTRUCTION IS COMPLETE.
5. THE CONTRACTOR SHALL INSPECT AND REPAIR THE SILT FENCE AFTER EACH RAIN EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
6. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFFSITE AND CAN BE PERMANENTLY STABILIZED.
7. THE SILT FENCE SHALL BE PLACED ON SLOPE CONTOUR TO MAXIMIZE ITS PONDING EFFICIENCY.
8. IF DITCH LEVEL IS DEEPER THAN 30", THEN A FLOATING SILT SCREEN SHALL BE USED.

2 SILT FENCE DETAIL
C5-3 N.T.S.



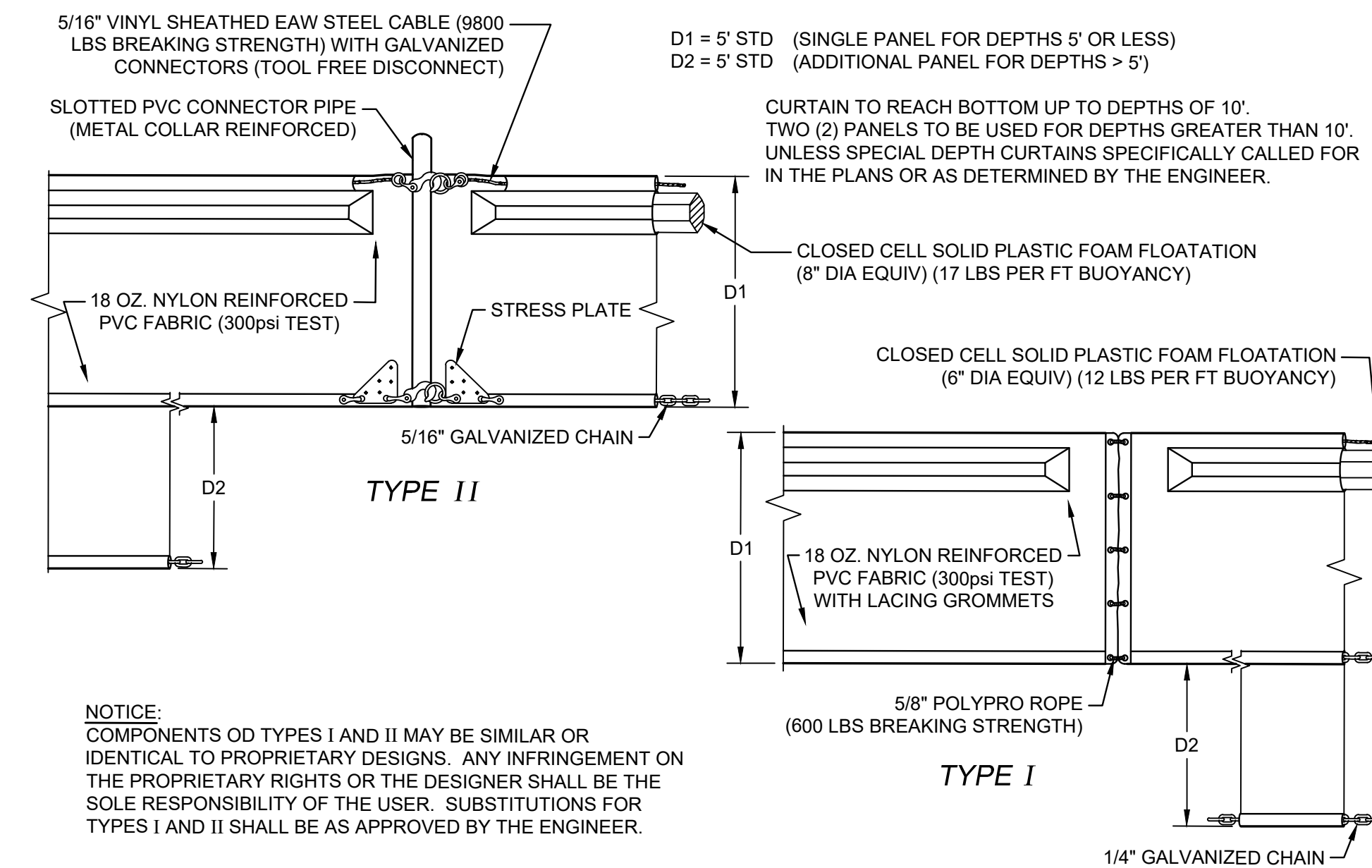
VERTICAL TRANSITION



NOTES

1. HDPE MAY BE EITHER IPS OR DIPS WITH A MINIMUM INSIDE DIAMETER OF 16" FOR THE LOXAHATCHEE RIVER CROSSING.
2. HDPE PIPE SIZE MUST BE ADAPTED TO THE ULTIMATE PVC SIZE AT MATERIAL TRANSITION.
3. HDPE-MJ ADAPTORS SHALL BE DR9 AND RATED TO THE SAME PRESSURE AS THE PIPELINE. ADAPTORS SHALL BE BUTT FUSION-WELDED TO THE PIPE LINE.
4. HDPE TO MJ CONNECTIONS MUST CONTAIN STAINLESS STEEL (STT) STIFFENERS OF AN APPROPRIATE LENGTH FOR THE JOINT SIZE. THE STIFFENERS SHALL BE 316 STAINLESS STEEL AS MANUFACTURED BY ROMAC INDUSTRIES, JCM INDUSTRIES, FORD METER BOX COMPANY, OR APPROVED EQUAL.

3 HDPE/PVC TRANSITION DETAILS
C5-3 N.T.S.



NOTICE: COMPONENTS OD TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OR THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

4 FLOATING TURBIDITY BARRIER
C5-3 N.T.S.

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 Bar is equal to one inch on original drawing
 Adjust all scaled dimensions accordingly.

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Dwg. No. 40-43-31-04			
Location: PALM BEACH COUNTY, FL			
No.	Date	By	Revision

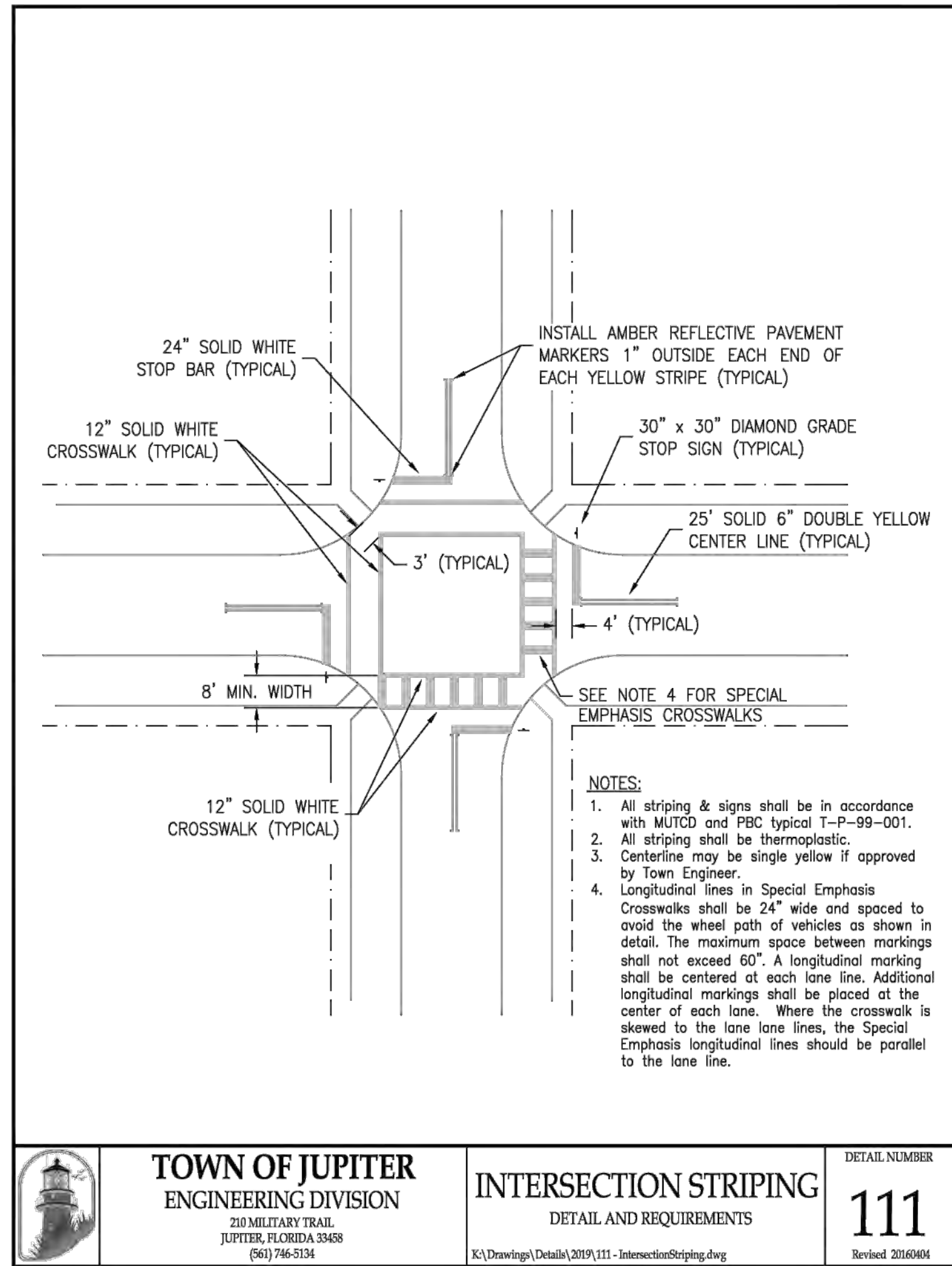
SEAL
 TYLER E. THOMPSON
 Florida P.E. No. 86558
 Date

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**LOXAHATCHEE RIVER
 SUBAQUEOUS FORCEMAIN
 CROSSING REPLACEMENT**
 LOXAHATCHEE RIVER DISTRICT

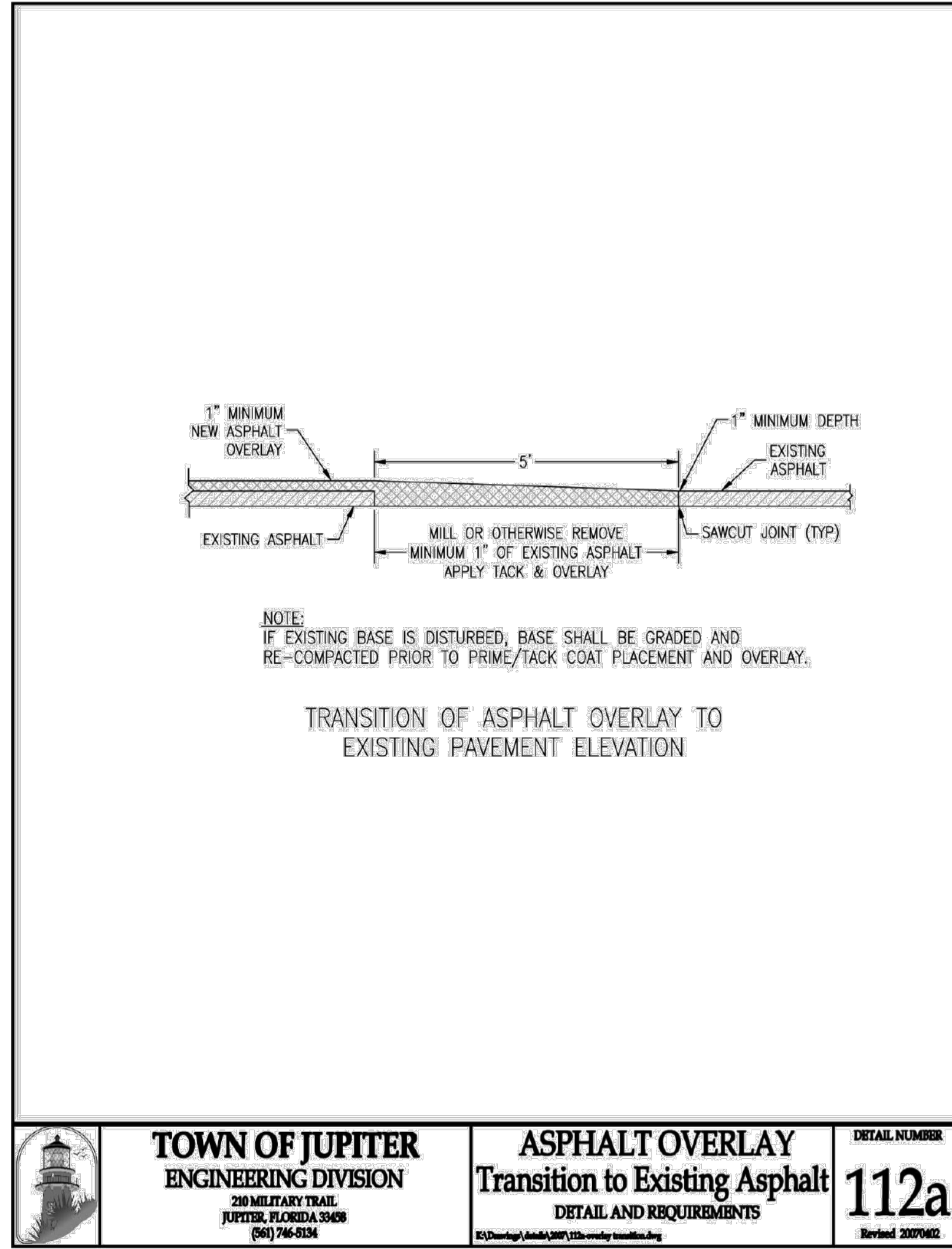
DETAILS

MAY 2024
C5-3



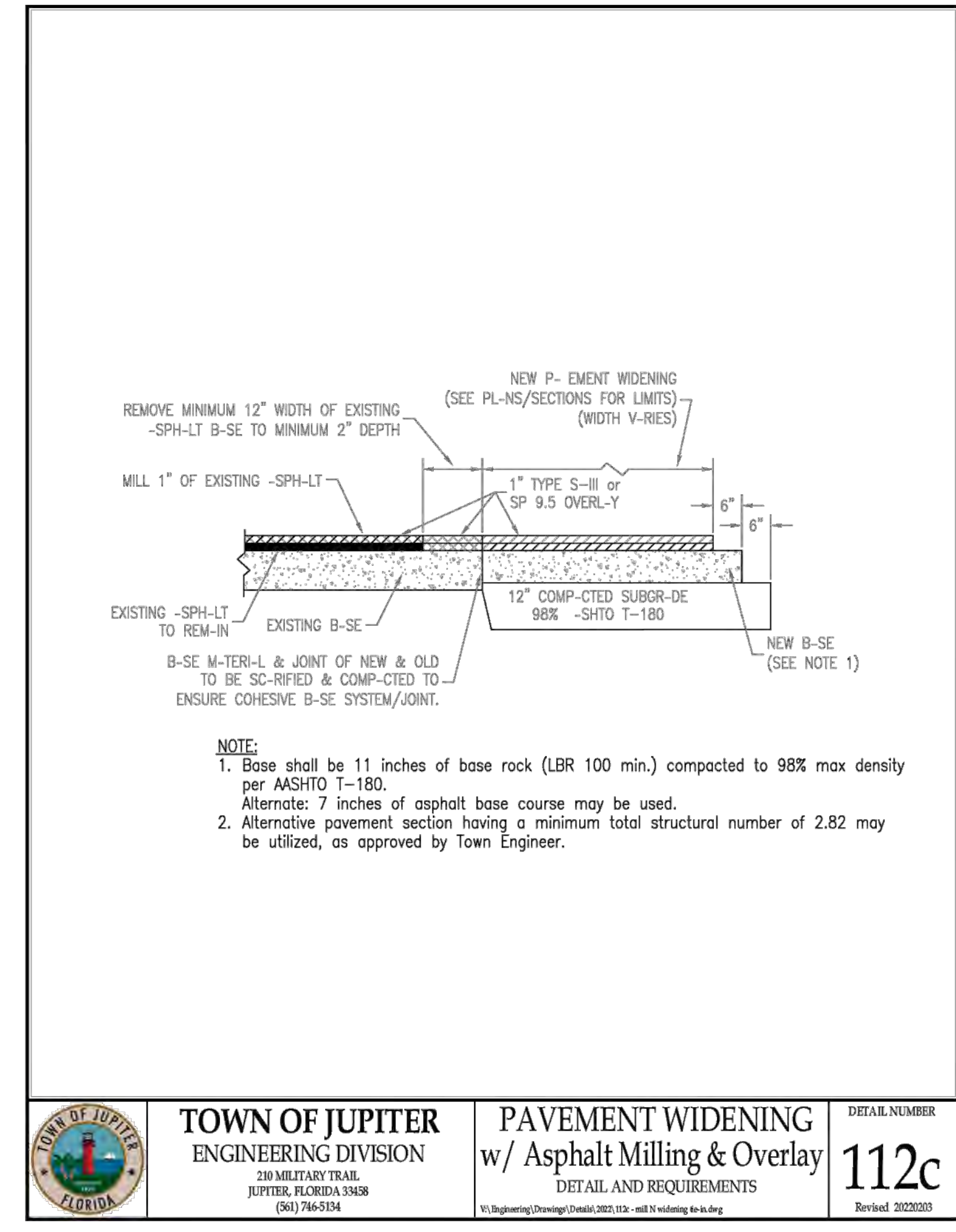
	TOWN OF JUPITER ENGINEERING DIVISION 210 MILITARY TRAIL JUPITER, FLORIDA 33408 (561) 746-5134	INTERSECTION STRIPING DETAIL AND REQUIREMENTS	DETAIL NUMBER 111 Revised: 20160404
	X:\Drawings\Detail\2019\111 - Intersection Striping.dwg		

111 INTERSECTION STRIPING
C5-4 TOWN OF JUPITER



	TOWN OF JUPITER ENGINEERING DIVISION 210 MILITARY TRAIL JUPITER, FLORIDA 33408 (561) 746-5134	ASPHALT OVERLAY Transition to Existing Asphalt DETAIL AND REQUIREMENTS	DETAIL NUMBER 112a Revised: 20070402
	X:\Drawings\Detail\2007\112a-overlay transition.dwg		

112a ASPHALT OVERLAY TRANSITION TO EXISTING ASPHALT
C5-4 TOWN OF JUPITER



	TOWN OF JUPITER ENGINEERING DIVISION 210 MILITARY TRAIL JUPITER, FLORIDA 33408 (561) 746-5134	PAVEMENT WIDENING w/ Asphalt Milling & Overlay DETAIL AND REQUIREMENTS	DETAIL NUMBER 112c Revised: 20220303
	X:\Engineering\Drawings\Detail\2022\112c - mill & widening 40-in.dwg		

112c PAVEMENT WIDENING WITH ASPHALT MILLING AND OVERLAY
C5-4 TOWN OF JUPITER

CAD File: F:\td\sub\CAD\DWGS\SUB\BACS01_C5-1.dwg
 PLOT DATE: May 06, 2024 - 11:38am
 Bar is equal to one inch on original drawing
 Adjust all scaled dimensions accordingly

Vertical Datum: NAVD88	
Datum Conversion: C0089.40	
P.A. No. 40-43-31-04	
Dwg. No. PALM BEACH COUNTY, FL	
Location:	
No.	Date
By	Revision

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Date

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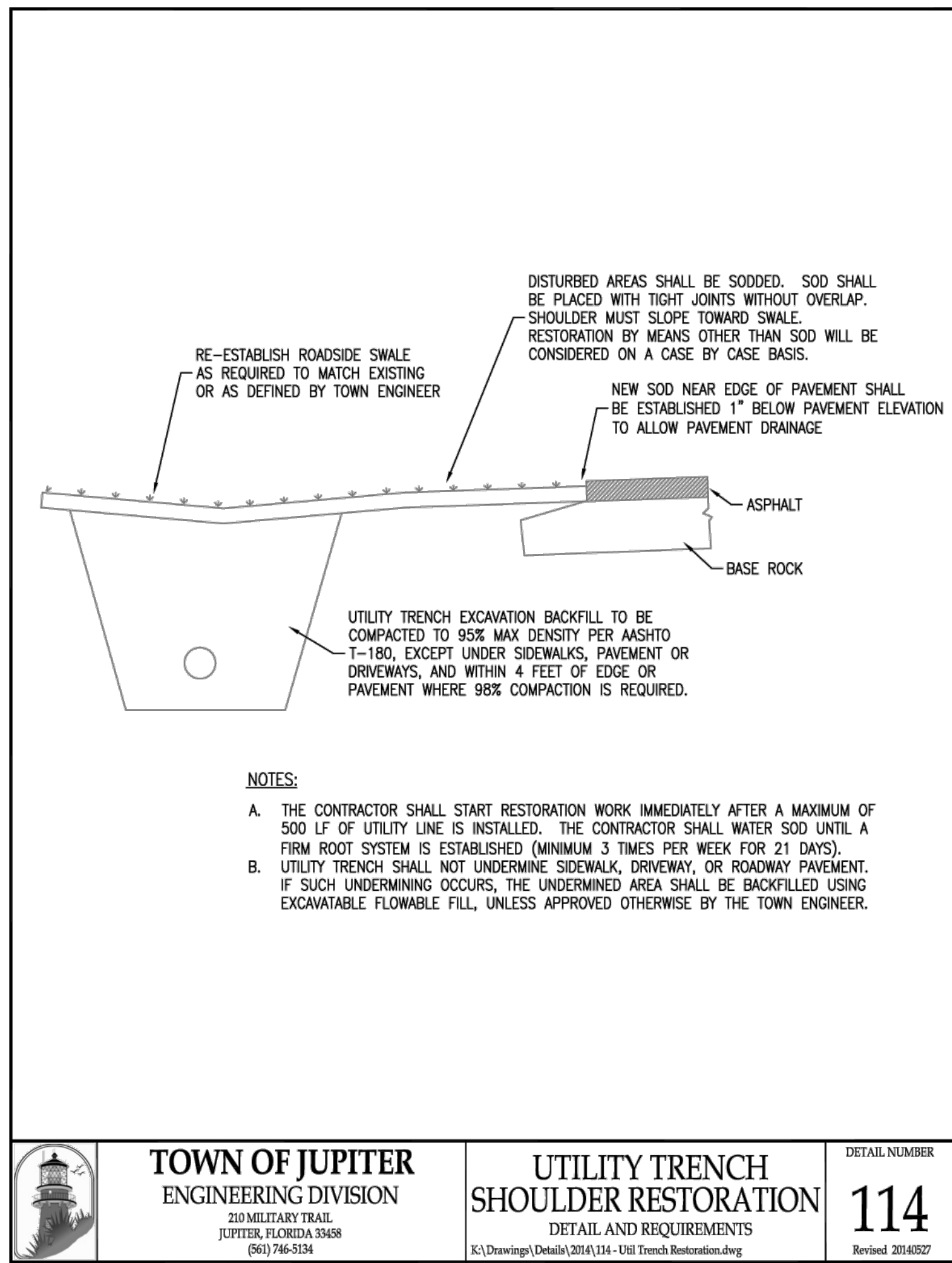
Florida Reg. No. 48 Florida L.B. No. 48

LOXAHATCHEE RIVER
SUBAQUEOUS FORCEMAIN
CROSSING REPLACEMENT

LOXAHATCHEE RIVER DISTRICT

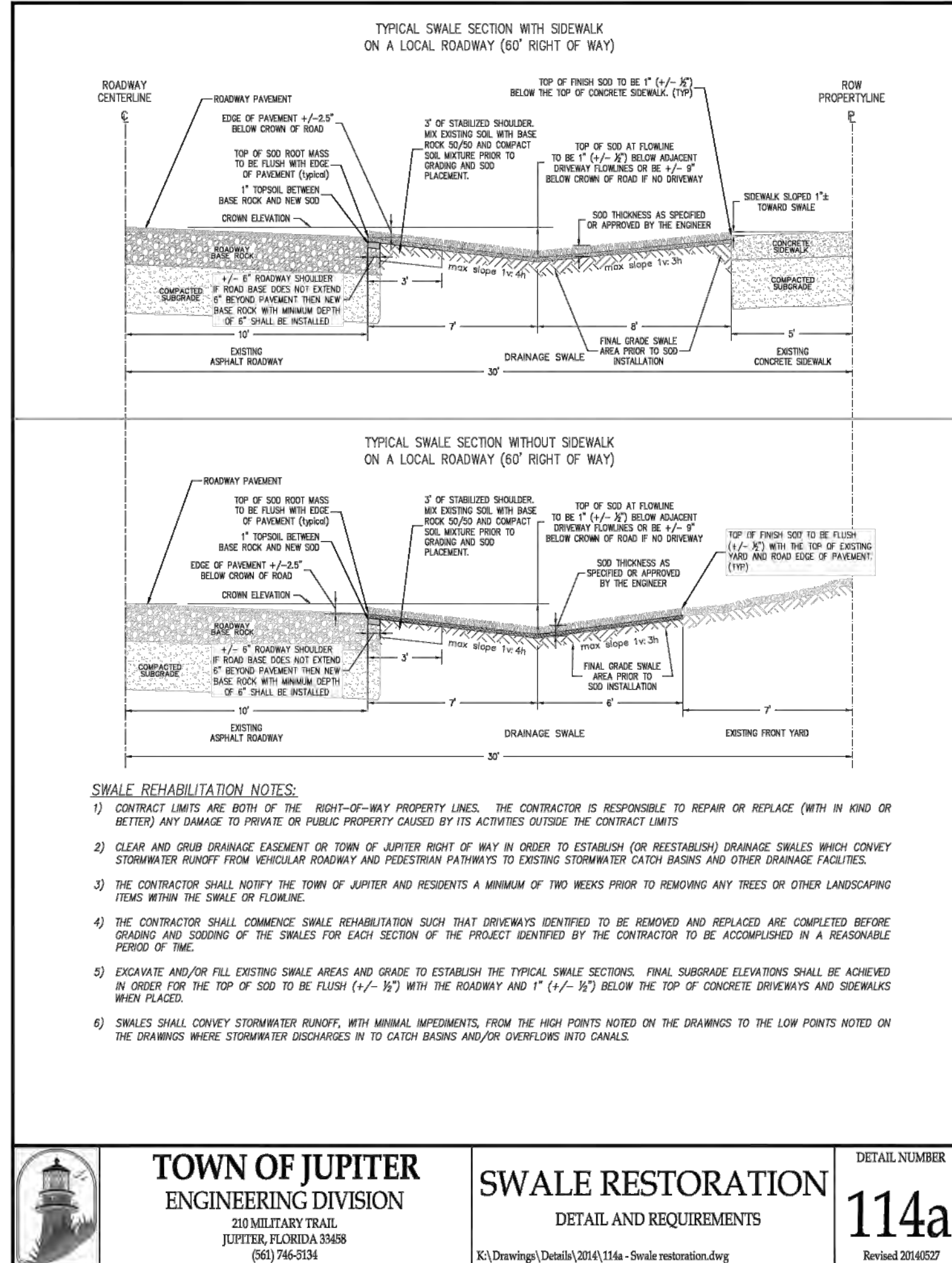
DETAILS

MAY 2024
C5-4



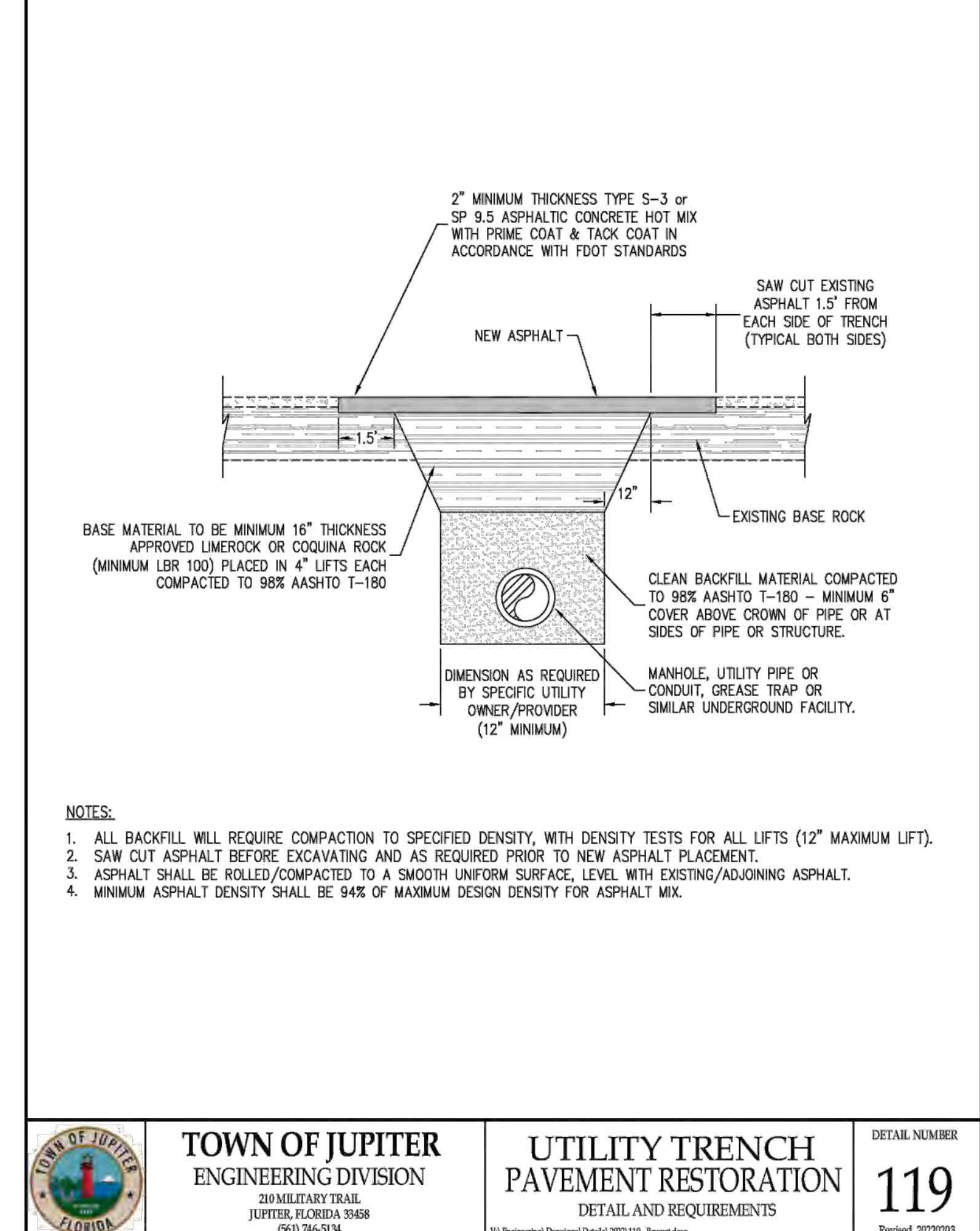
	TOWN OF JUPITER ENGINEERING DIVISION 210 MILITARY TRAIL JUPITER, FLORIDA 33458 (561) 746-5134	UTILITY TRENCH SHOULDER RESTORATION DETAIL AND REQUIREMENTS	DETAIL NUMBER 114 Revised 20140527
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114 UTILITY TRENCH SHOULDER RESTORATION
C5-5 TOWN OF JUPITER



	TOWN OF JUPITER ENGINEERING DIVISION 210 MILITARY TRAIL JUPITER, FLORIDA 33458 (561) 746-5134	SWALE RESTORATION DETAIL AND REQUIREMENTS	DETAIL NUMBER 114a Revised 20140527
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114a SWALE RESTORATION
C5-5 TOWN OF JUPITER



	TOWN OF JUPITER ENGINEERING DIVISION 210 MILITARY TRAIL JUPITER, FLORIDA 33458 (561) 746-5134	UTILITY TRENCH PAVEMENT RESTORATION DETAIL AND REQUIREMENTS	DETAIL NUMBER 119 Revised 20220203
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119 UTILITY TRENCH PAVEMENT RESTORATION
C5-5 TOWN OF JUPITER

CADD File: F:\id_saba\CADD\DWGS\SUB\ACS01_C5-1.dwg
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 Bar is equal to one inch on original drawing.
 Adjust all scaled dimensions accordingly.

Vertical Datum: NAVD88	
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P.A. No. 40-43-31-04	
Dwg. No. PALM BEACH COUNTY, FL	
Location:	
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DETAILS

C5-5

MAY 2024