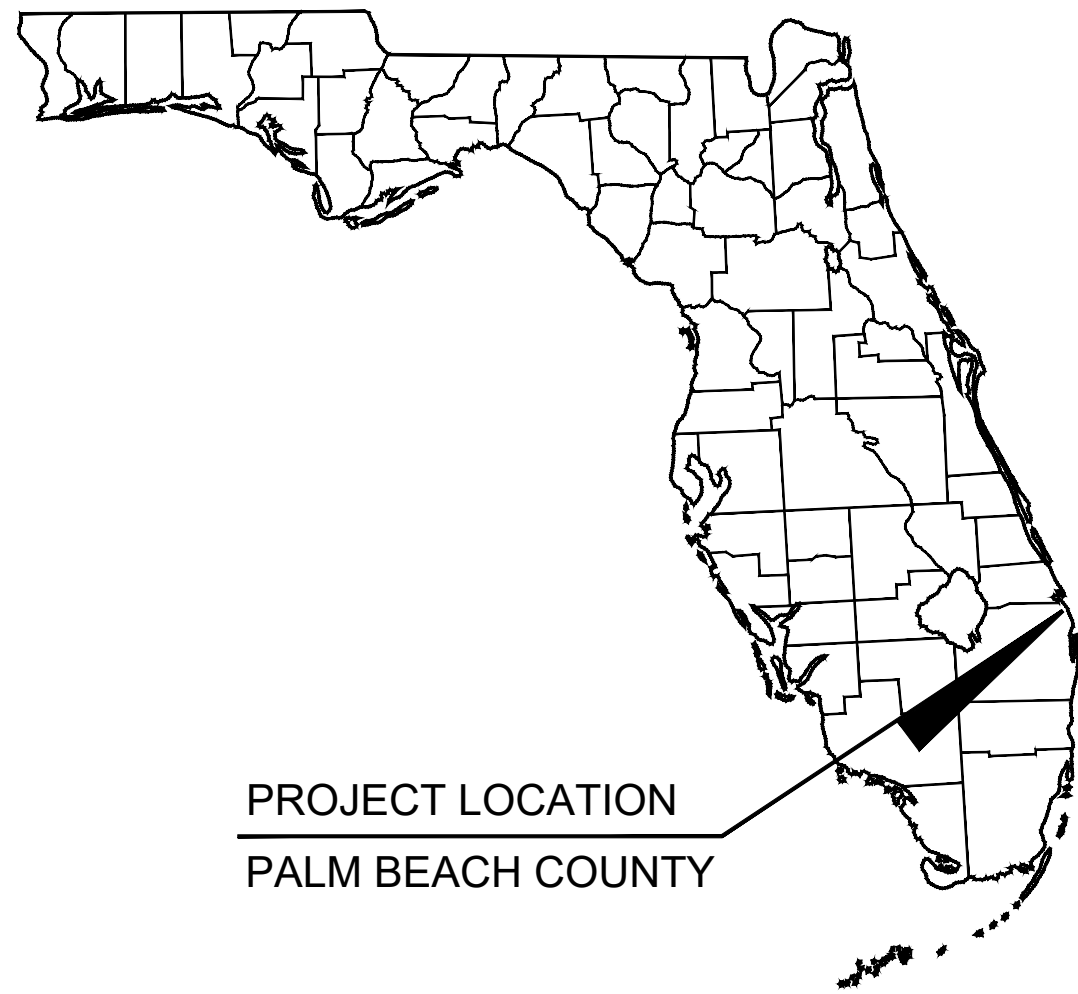


CONSTRUCTION PLANS FOR A1A FORCE MAIN REPLACEMENT

PREPARED FOR THE

LOXAHATCHEE RIVER DISTRICT

APRIL 2025



LOXAHATCHEE RIVER DISTRICT
GOVERNING BOARD

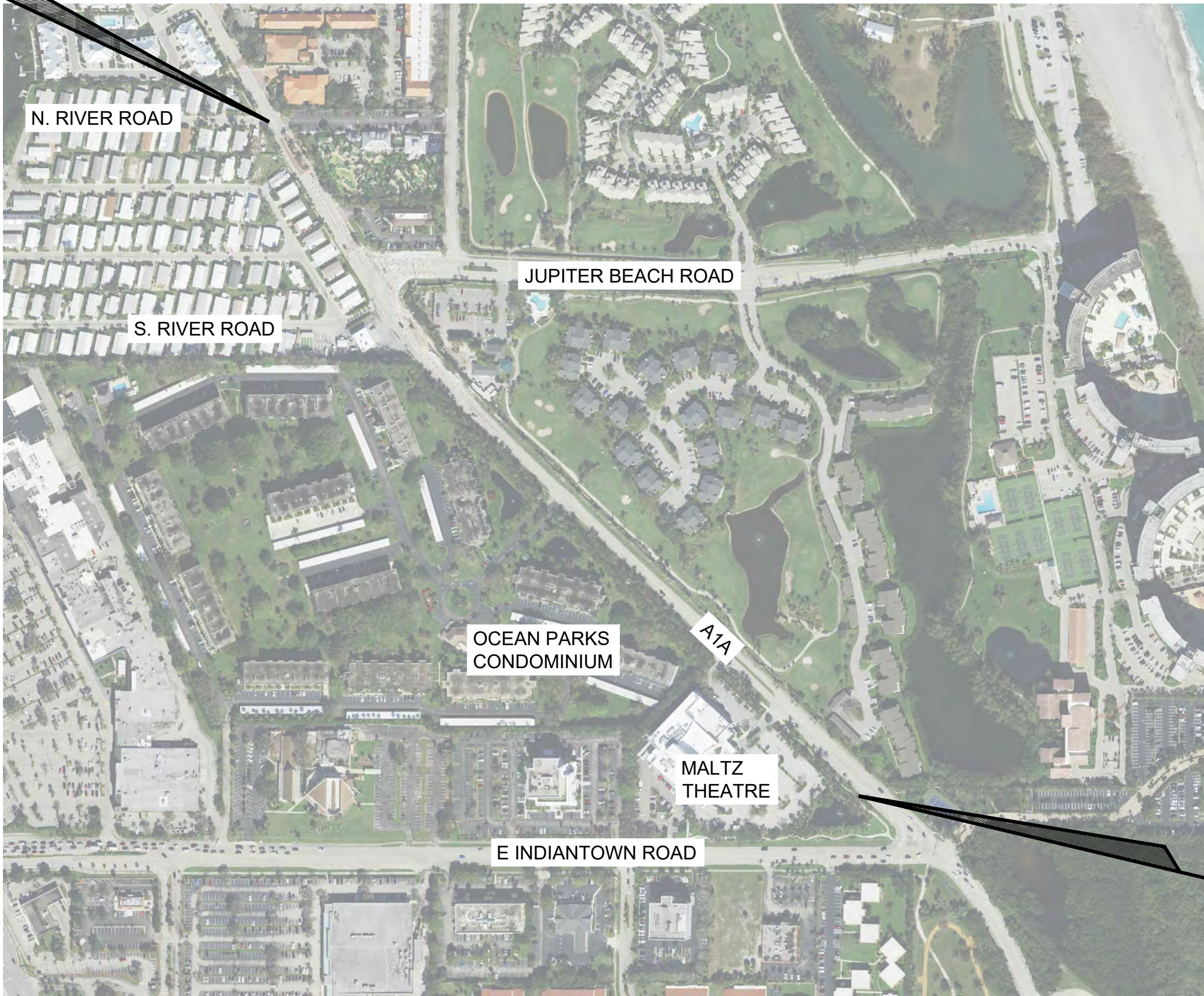
GORDON M. BOOGIE
KEVIN L. BAKER
DR. MATT H. ROSTOCK
STEPHEN B. ROCKOFF

CHAIRMAN
VICE CHAIRMAN
TREASURER
SECRETARY

EXECUTIVE DIRECTOR
DEPUTY EXECUTIVE DIRECTOR

D. ALBREY ARRINGTON, PhD.
KRIS DEAN, P.E.

END PROJECT
N. RIVER RD.



LOCATION MAP
N.T.S.

BEGIN PROJECT
200'± N OF
INDIANTOWN RD.

SUMMARY TABLE	
ITEM	QUANTITY
LENGTH OF PIPE IN PBC R/W	1715 LF
NUMBER OF ARV MANHOLES	3
LENGTH OF PIPE UNDER PBC ROAD TRAVEL LANES	0 LF
LENGTH OF MILL AND RESURFACE	55 LF

SUMMARY TABLE FOR PBC APPLICATION NO. UT69897

INDEX OF SHEETS	
Sheet Number	Sheet Title
C-1	COVER SHEET
C-2	GENERAL NOTES
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C-5	A1A FM REPLACEMENT PLAN AND PROFILE
C-6	A1A FM REPLACEMENT PLAN AND PROFILE
C-7	A1A FM REPLACEMENT PLAN AND PROFILE
C-8	A1A FM REPLACEMENT PLAN AND PROFILE
C-9	A1A FM REPLACEMENT PLAN AND PROFILE
C-10	A1A FM REPLACEMENT PLAN AND PROFILE
C-11	OCEAN PARKS FM REPLACEMENT PLAN AND PROFILE
C-12	PALM BEACH COUNTY STANDARD DETAILS
C-13	TOWN OF JUPITER STANDARD DETAILS
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C-15	LRD STANDARD UTILITY DETAILS
C-16	LRD STANDARD UTILITY DETAILS

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<div>100% SUBMITTAL</div>				<div>Kimley»Horn</div> <div>1920 WEKIVA WAY SUITE 200, WEST PALM BEACH, FL 33411 PHONE: 561-845-0665 FAX: 561-863-8175 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106</div>		<div>KHA PROJECT 140790002 DATE APR. 2025 SCALE AS SHOWN DESIGNED BY SS DRAWN BY SS CHECKED BY TCJ</div>		<div>A1A AND OCEAN PARKS FM REPLACEMENT PREPARED FOR LOXAHATCHEE RIVER DISTRICT</div> <div>JUPITER, FLORIDA</div>		<div>LICENSED PROFESSIONAL THOMAS C. JENSEN 37290</div>		<div>COVER SHEET</div>		<div>SHEET NUMBER C-1</div>		
PBC REVISIONS		2-17-25		MJM												
No.	REVISIONS				DATE		BY									

PBC GENERAL NOTES:

1. CONTRACTOR SHALL CONTACT PALM BEACH COUNTY TRAFFIC OPERATIONS AT 561-233-3900 FORTY-EIGHT (48) HOURS PRIOR TO CONSTRUCTION IF WORK IS BEING DONE WITHIN 10 FEET OF ANY SIGNAL EQUIPMENT.
2. DAMAGE TO LOOPS OR ANY SIGNAL EQUIPMENT CAUSED BY THE CONSTRUCTION OF THIS PROJECT MUST BE REPAIRED OR REPLACED TO ORIGINAL OR BETTER CONDITION AT NO COST TO PALM BEACH COUNTY.
3. NO EXCAVATION AROUND PALM BEACH COUNTY SIGNAL POLES WITHIN A 6 FOOT RADIUS FROM THE CENTER OF THE POLE AND 6 FEET AROUND THE GUY WIRE ANCHOR ROD. NO EXCAVATION BETWEEN PBC SIGNAL POLES AND SUPPORTING GUY WIRE ANCHOR ROD. PLEASE SEE PALM BEACH COUNTY TRAFFIC SIGNAL INSTALLATION STANDARDS AND DETAILS 2024 DRAWING T-5.4.





LRD GENERAL NOTES:

- ALL CONNECTIONS TO EXISTING MAINS SHALL BE OBSERVED BY THE DISTRICT. VALVES ON EXISTING MAINS SHALL BE OPERATED BY DISTRICT PERSONNEL OR UNDER THEIR DIRECT SUPERVISION. CONTRACTOR SHALL BE PREPARED TO HANDLE DISPOSAL OF EXCESS SEWAGE FROM ISOLATION VALVES TO POINTS OF CONNECTION.
- THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF LRD UTILITIES MINIMUM DESIGN AND CONSTRUCTION STANDARDS LATEST EDITION, ONE COPY OF THE CONTRACT DOCUMENTS, INCLUDING PLANS, SPECIFICATIONS AND SPECIAL PROVISIONS, AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
- THE CONTRACTOR SHALL CONTACT ALL CONCERNED UTILITIES AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS.
- THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHOD AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES AND SUNSHINE 811 PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS SHALL BE RESOLVED BY THE ENGINEER PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- LOCATION OF PROPOSED FACILITIES WILL BE STAKED BY CONTRACTOR. CONTRACTOR MUST GIVE 48 HOURS NOTICE TO THE DISTRICT IN ADVANCE OF LAYOUT.
- THE CONTRACTOR SHALL PROVIDE A QUALIFIED SUPERINTENDENT TO REMAIN ON THE JOB SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. THE SUPERINTENDENT SHALL BE PRESENT AT THE PRE-CONSTRUCTION MEETINGS. THE CONTRACTOR SHALL NOTIFY THE DISTRICT BY LETTER PRIOR TO THE PRE-CONSTRUCTION MEETING APPOINTING THE SUPERINTENDENT FOR THE PROJECT INCLUDING A FORMAL RESUME SHOWING QUALIFICATIONS. IN THE EVENT THE SUPERINTENDENT WILL NOT BE PRESENT FOR ANY PERIOD OF TIME DURING CONTRACT WORK THE CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE IN WRITING TO THE DISTRICT, INCLUDING THE APPOINTMENT OF A QUALIFIED REPLACEMENT SUPERINTENDENT WHO WILL BE PRESENT DURING THE CONSTRUCTION. WORK SHALL NOT BE ALLOWED TO PROCEED UNLESS THE ASSIGNED SUPERINTENDENT IS PRESENT.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE HIS COMPLETE FAMILIARITY WITH THE PROJECT SITE AND COMPONENTS TO INCLUDE SUBSURFACE CONDITIONS OF SOIL AND GROUNDWATER TABLE.
- DENSITY TESTS OF TRENCH BACKFILL MATERIAL SHALL BE REQUIRED AT INTERVALS OF NOT MORE THAN 500 FEET. DENSITY TESTS OF PAVEMENT OPEN-CUT AREAS INCLUDING ROADS, TURNLANES, AND DRIVES SHALL BE REQUIRED AT EACH OPEN-CUT AT INTERVALS OF NO MORE THAN 50 FEET. ALL TESTS SHALL COMMENCE AT THE TOP PIPE AND EVERY 12 INCHES TO THE FINISH GRADE. COMPACTION SHALL BE IN ACCORDANCE WITH EITHER PALM BEACH COUNTY (P.B.C.) OR THE TOWN OF JUPITER (T.O.J.) DEPENDING ON THE AREA OF CONSTRUCTION AND THE GOVERNING JURISDICTION. DETAILS ARE INCLUDED WITHIN. FLORIDA BEARING TESTS FOR THE STABILITY OF EXISTING SUBSOIL SHALL BE TAKEN AT INTERVALS OF NOT MORE THAN 500 FEET, AND CLOSER AS MIGHT BE NECESSARY IN THE EVENT OF VARIATIONS IN THE STRATA. A CERTIFIED COPY OF THE TESTS SHALL BE PROVIDED TO THE DISTRICT, P.B.C., AND T.O.J.. CONTRACTORS BID PRICE SHALL INCLUDE PAYMENT FOR ALL TESTS CONDUCTED BY AN INDEPENDENT TESTING LAB.
- ANY LANDSCAPING DISTURBED, UNLESS OTHERWISE SHOWN ON THE PLANS, SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE DISTRICT AT THE CONTRACTORS EXPENSE.
- ANY SIDEWALK, CURB AND GUTTER OR PAVEMENT DISTURBED, UNLESS OTHERWISE SHOWN ON PLANS, SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. UNLESS OTHERWISE SPECIFIED OR INDICATED, ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS AND ALL CONCRETE WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE AMERICAN CONCRETE INSTITUTE (ACI) BUILDING CODE AND THE APPLICABLE BUILDING CODES HAVING JURISDICTION IN THE AREA. ALL CONSTRUCTION SHALL MEET ADA REQUIREMENTS THIS INCLUDES, BUT IS NOT LIMITED TO, DETECTABLE WARNING SURFACES.
- ALL SOD IS TO BE PLACED FOR THE UNIT PRICES FOR SOD. SOD SHALL BE REPLACED TO MATCH EXISTING KIND UNLESS OTHERWISE SHOWN ON PLANS.
- CONTRACTOR SHALL PROVIDE PROPER BENDS TO MAINTAIN REQUIRED DEPTH AND ALIGNMENT OF PIPE. COST OF BENDS NOT DESIGNATED ON PLANS SHALL BE INCLUDED WITH THE UNIT PRICE FOR PIPE.
- ANY TREES AND/OR SCRUB OR OTHER VEGETATION NOT TO BE REPLACED SHALL BE REMOVED FROM THE PROJECT AT THE CONTRACTOR'S EXPENSE.
- ALL RUBBLE AND UNSUITABLE MATERIAL MUST BE REMOVED FROM THE PROJECT AND DISPOSED OF PROPERLY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- DEFLECT PIPE AS NECESSARY TO OBTAIN THE REQUIRED ALIGNMENT. USE APPROPRIATE FITTINGS WHEN DEFLECTION EXCEEDS 75% OF MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION.
- ALL FITTINGS SHALL BE MECHANICALLY RESTRAINED. REFER TO LRD MINIMUM DESIGN AND CONSTRUCTION STANDARDS (LATEST EDITION).
- ALL CONSTRUCTION DEWATERING (WELL POINTS, SUMPS, ETC) WILL REQUIRE A DEWATERING PERMIT FROM SOUTH FLORIDA WATER MANAGEMENT DISTRICT. THIS SHALL BE OBTAINED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE PRIOR TO BEGINNING OF CONSTRUCTION.
- THE "TRENCH SAFETY ACT" SHALL BE INCORPORATED INTO THIS CONTRACT AS ENACTED BY THE LEGISLATURE OF THE STATE OF FLORIDA TO BE IN EFFECT AS OF OCTOBER 1, 1990.
- A PERMIT IS REQUIRED FOR ALL WORK WITHIN P.B.C. AND T.O.J. RIGHT-OF-WAY. THESE PERMITS MUST BE OBTAINED BY THE CONTRACTOR FROM THE P.B.C. OR T.O.J. ENGINEERING DEPARTMENT. ALL COSTS PAYABLE BY THE CONTRACTOR. A COPY OF THIS PERMIT MUST BE MAINTAINED ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.
- ALL CONCRETE AND ASPHALT DRIVES MUST BE REPLACED FROM SAW CUT TO EDGE OF PAVEMENT.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING THEIR PLAN FOR ON-SITE STAGING AND STORAGE AREAS FOR EQUIPMENT AND MATERIAL.

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<div style="border: 2px solid black; border-radius: 15px; padding: 5px; display: inline-block;"> 100% SUBMITTAL </div>						KHA PROJECT 140790002 DATE APR. 2025 SCALE AS SHOWN DESIGNED BY SS DRAWN BY SS CHECKED BY TCJ		A1A AND OCEAN PARKS FM REPLACEMENT PREPARED FOR LOXAHATCHEE RIVER DISTRICT JUPITER, FLORIDA		LICENSED PROFESSIONAL <hr/> THOMAS C. JENSEN <div style="text-align: center;">37290</div>		<div style="text-align: center; font-size: 24px; font-weight: bold;">GENERAL NOTES</div>		SHEET NUMBER <div style="text-align: center; font-size: 36px; font-weight: bold;">C-2</div>	
				1920 WEKIVA WAY SUITE 200, WEST PALM BEACH, FL 33411 PHONE: 561-845-0665 FAX: 561-863-8175 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106											
<div style="border: 1px solid black; padding: 2px;"> <div style="display: flex; justify-content: space-between;"> <div>  PBC REVISIONS </div> <div>2-17-25</div> <div>MJM</div> </div> </div>															
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KHA PROJECT 140790002	
DATE APR. 2025	
SCALE AS SHOWN	
DESIGNED BY	SS
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A1A AND OCEAN PARKS FM REPLACEMENT

PREPARED FOR
LOXAHATCHEE RIVER DISTRICT

JUPITER, FLORIDA

LICENSED PROFESSIONAL

THOMAS C. JENSEN

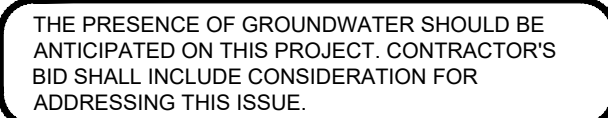
37290

DATE: _____

GENERAL NOTES

SHEET NUMBER

C-2

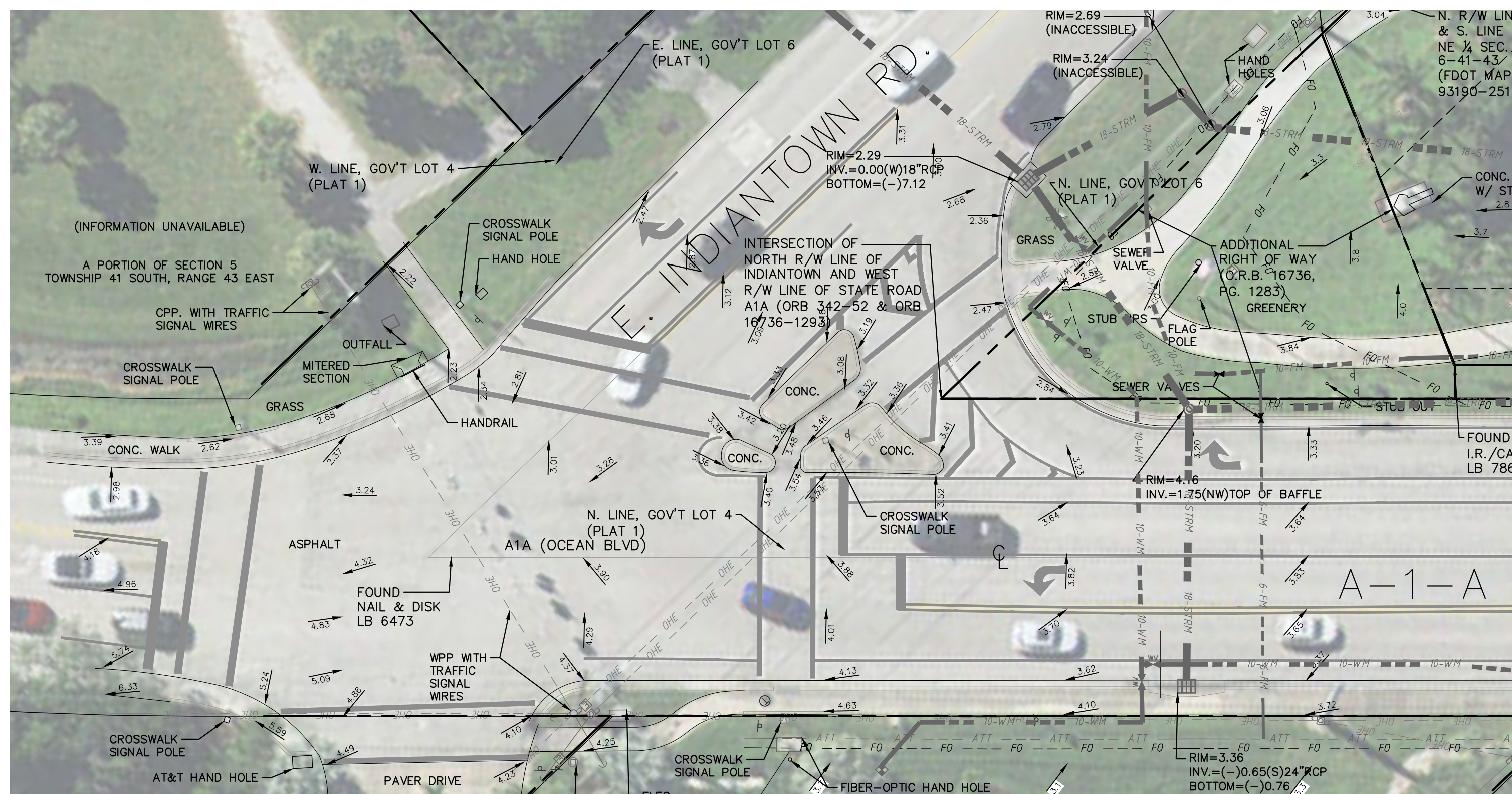


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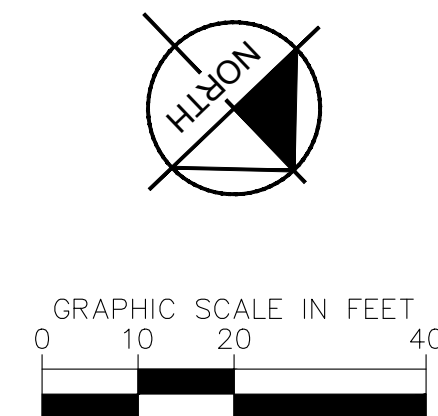
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		PBC REVISIONS				2-17-25		MJM																			
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MATCHLINE - SEE SHEET C-5



NO WORK ON THIS SHEET.
PROVIDED FOR REFERENCE TO
SURVEY AT THE INTERSECTION
OF INDIANTOWN RD. AND A-1-A

NOTE:

1. MAINTAIN MINIMUM 4 FT. HORIZONTAL CLEARANCES FROM OUTSIDE OF ALL PBC UTILITY CONDUITS.
2. MAINTAIN MINIMUM 1 FT. VERTICAL CLEARANCE FROM OUTSIDE OF ALL PBC UTILITY CONDUITS.



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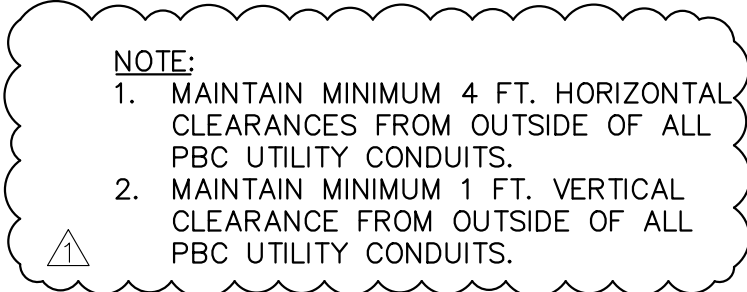
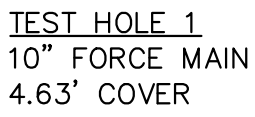
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<div style="border: 2px solid black; border-radius: 15px; padding: 5px; text-align: center; width: fit-content; margin: 0 auto;"> 100% SUBMITTAL </div>				<div style="text-align: center;"> <h1>Kimley»Horn</h1> <p>1920 WEKIVA WAY SUITE 200, WEST PALM BEACH, FL 33411 PHONE: 561-845-0665 FAX: 561-863-8175 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106</p> </div>		<div style="border: 1px solid black; padding: 2px;"> KHA PROJECT 140790002 </div>		<div style="text-align: center;"> <h2>A1A AND OCEAN PARKS FM REPLACEMENT</h2> <p>PREPARED FOR LOXAHATCHEE RIVER DISTRICT</p> <p>JUPITER, FLORIDA</p> </div>		<div style="border: 1px solid black; padding: 2px;"> LICENSED PROFESSIONAL </div>		<div style="text-align: center;"> <h2>A1A FM REPLACEMENT PLAN</h2> <p>C-4</p> </div>		SHEET NUMBER	
<div style="border: 1px solid black; padding: 2px;"> DATE APR. 2025 </div>		<div style="border: 1px solid black; padding: 2px;"> THOMAS C. JENSEN </div>													
<div style="border: 1px solid black; padding: 2px;"> SCALE AS SHOWN </div>		<div style="border: 1px solid black; padding: 2px;"> 37290 </div>													
<div style="border: 1px solid black; padding: 2px;"> DESIGNED BY SS </div>		<div style="border: 1px solid black; padding: 2px;"> DATE: </div>													
<div style="border: 1px solid black; padding: 2px;"> DRAWN BY SS </div>		<div style="border: 1px solid black; padding: 2px;"> CHECKED BY TCJ </div>													
<div style="border: 1px solid black; padding: 2px;"> No. REVISIONS DATE BY </div>		<div style="border: 1px solid black; padding: 2px;"> PBC REVISIONS 2-17-25 MJM </div>													

MATCHLINE - SEE SHEET C-4



SIDEWALK RESTORATION NOTE:
NO PARTIAL FLAGS WILL BE ACCEPTED
IN SIDEWALK RESTORATION


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SCALE AS SHOWN	
DESIGNED BY	SS
DRAWN BY	SS
CHECKED BY	TC

JUPITER,

THOMAS C. JENSEN

37290

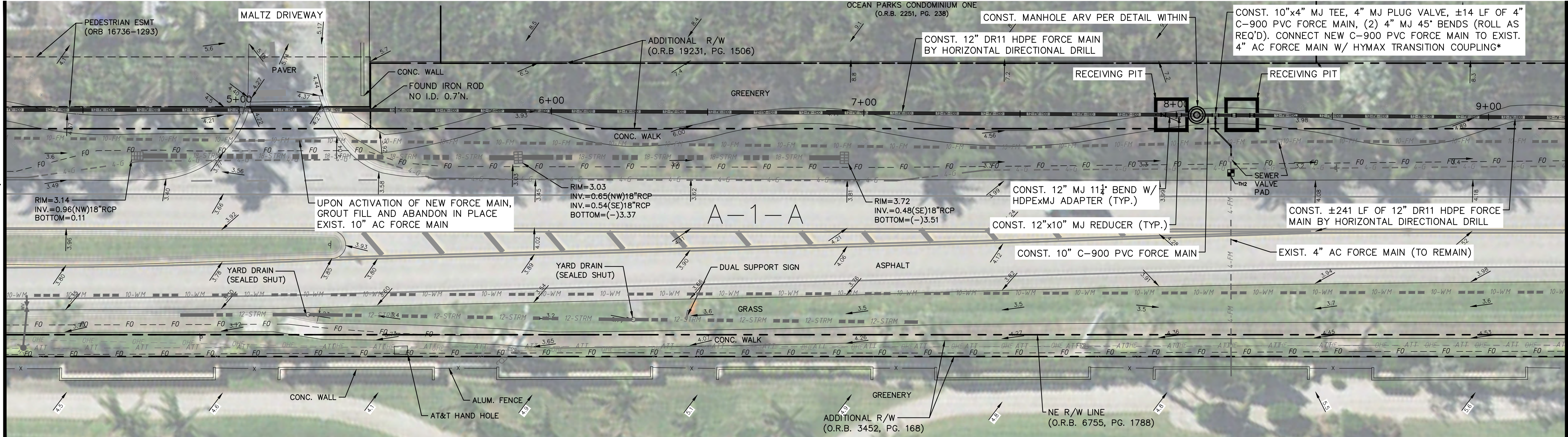
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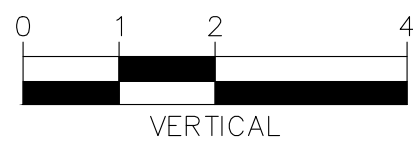
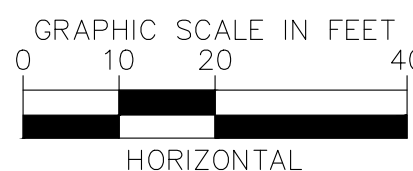
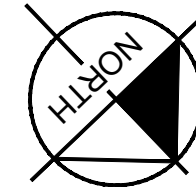
C-5

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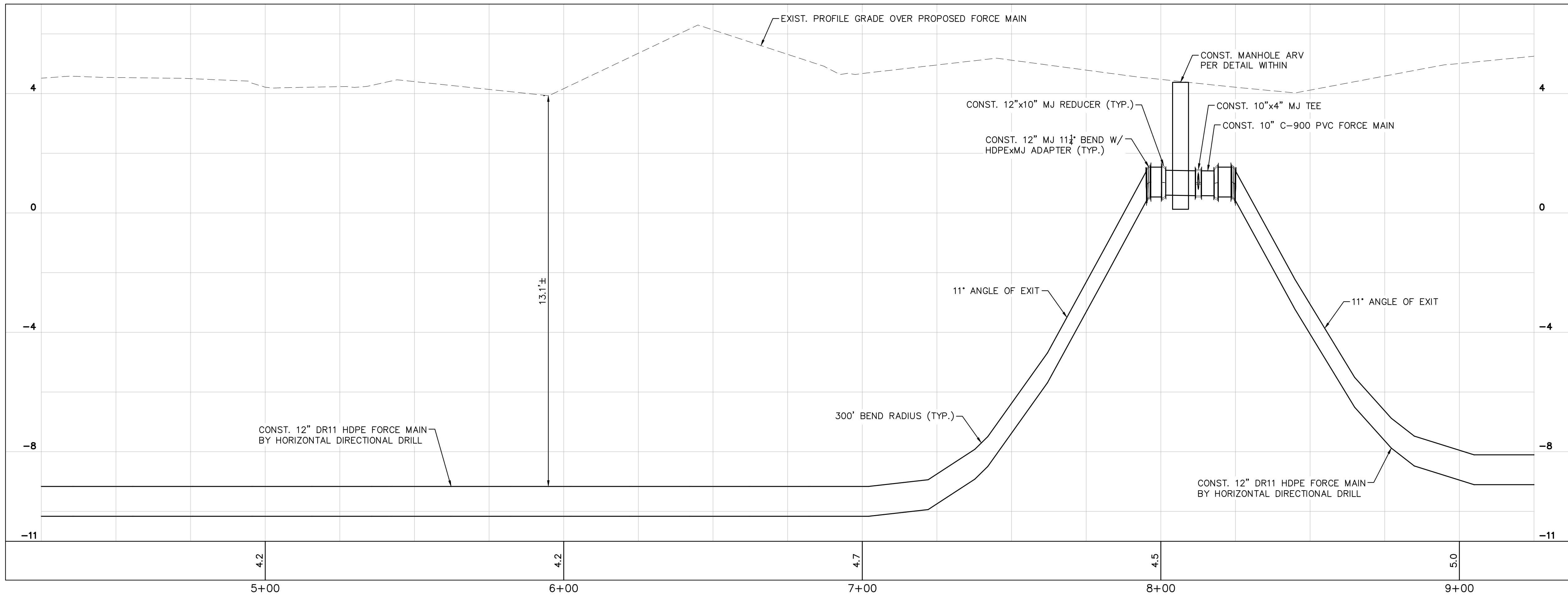
MATCHLINE - STA 4+25, SEE SHEET C-5



MATCHLINE - STA 9+25, SEE SHEET C-7



TEST HOLE 2
4" FORCE MAIN
3.52' COVER



- NOTE:**
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 2. MAINTAIN MINIMUM 1 FT. VERTICAL CLEARANCE FROM OUTSIDE OF ALL PBC UTILITY CONDUITS.

***ASBESTOS CONCRETE (A.C.) PIPE DISPOSAL NOTE:** THIS CONNECTION MAY REQUIRE A PORTION OF EXISTING A.C. PIPE TO BE REMOVED AS REQUIRED TO MAKE THE NEW CONNECTIONS SHOWN. CONTRACTOR IS RESPONSIBLE TO HANDLE, BAG AND DISPOSE OF ANY EXISTING A.C. PIPE ACCORDING TO LOCAL AND STATE REGULATIONS.

SIDEWALK RESTORATION NOTE: NO PARTIAL FLAGS WILL BE ACCEPTED IN SIDEWALK RESTORATION

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

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PHONE: 561-845-0665 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT
140790002
DATE
APR. 2025
SCALE AS SHOWN
DESIGNED BY SS
DRAWN BY SS
CHECKED BY TCJ

**A1A AND OCEAN PARKS
FM REPLACEMENT**
PREPARED FOR
LOXAHATCHEE RIVER DISTRICT

JUPITER,

FLORIDA

LICENSED PROFESSIONAL

THOMAS C. JENSEN

37290

DATE: _____

**A1A FM REPLACEMENT PLAN
AND PROFILE**

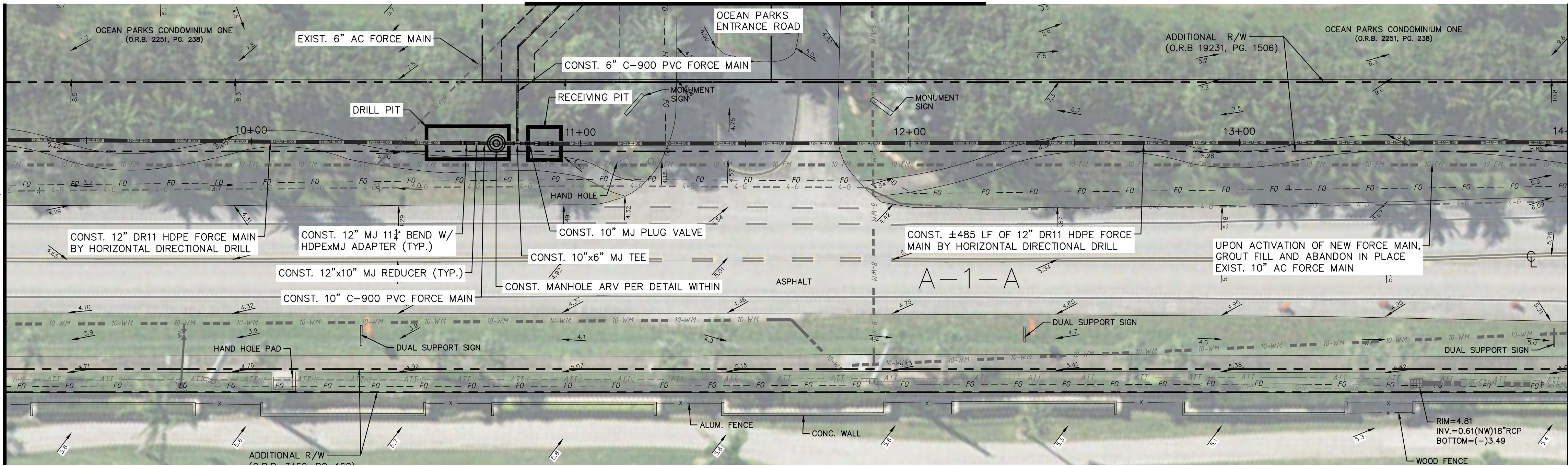
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C-6

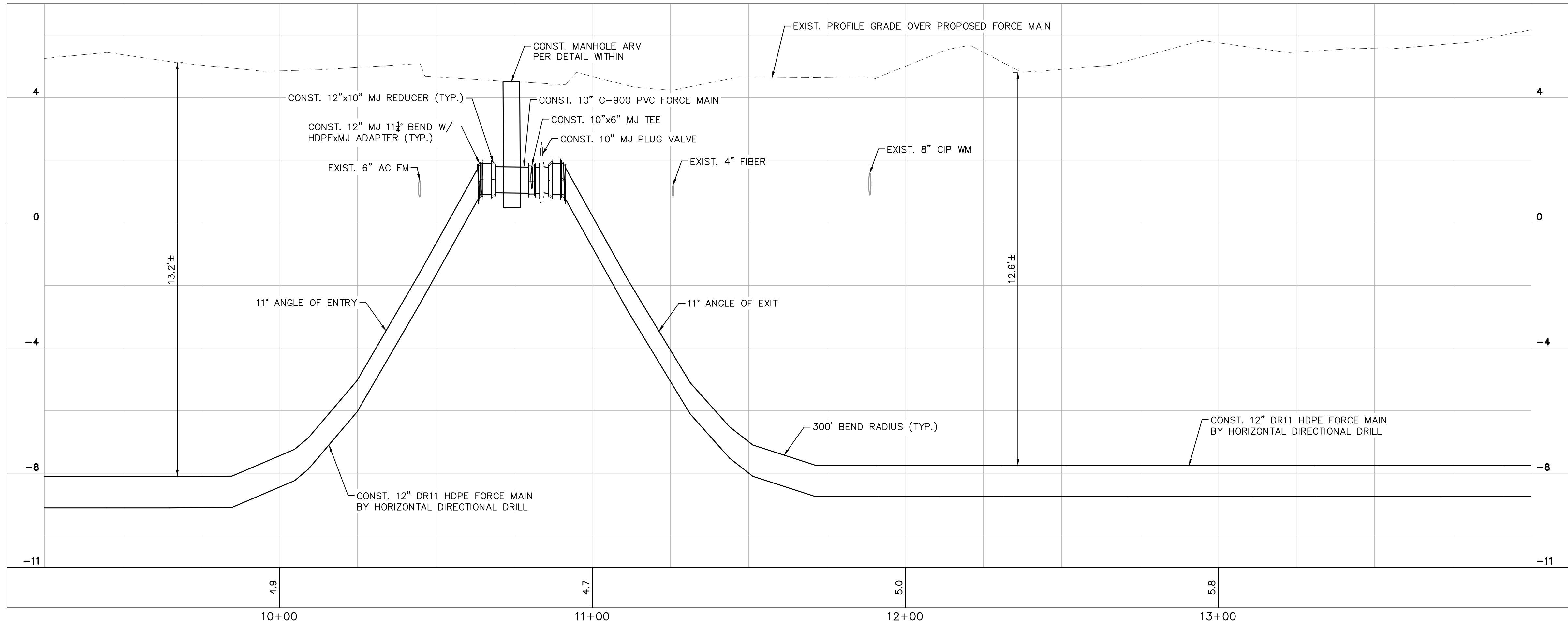
No.	REVISIONS	DATE	BY
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MATCHLINE - STA 9+25, SEE SHEET C-6



MATCHLINE - STA 14+00, SEE SHEET C-8



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WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT
140790002
DATE
APR. 2025
SCALE AS SHOWN
DESIGNED BY SS
DRAWN BY SS
CHECKED BY TCJ

**A1A AND OCEAN PARKS
FM REPLACEMENT**
PREPARED FOR
LOXAHATCHEE RIVER DISTRICT

JUPITER,

FLORIDA

LICENSED PROFESSIONAL

THOMAS C. JENSEN

37290

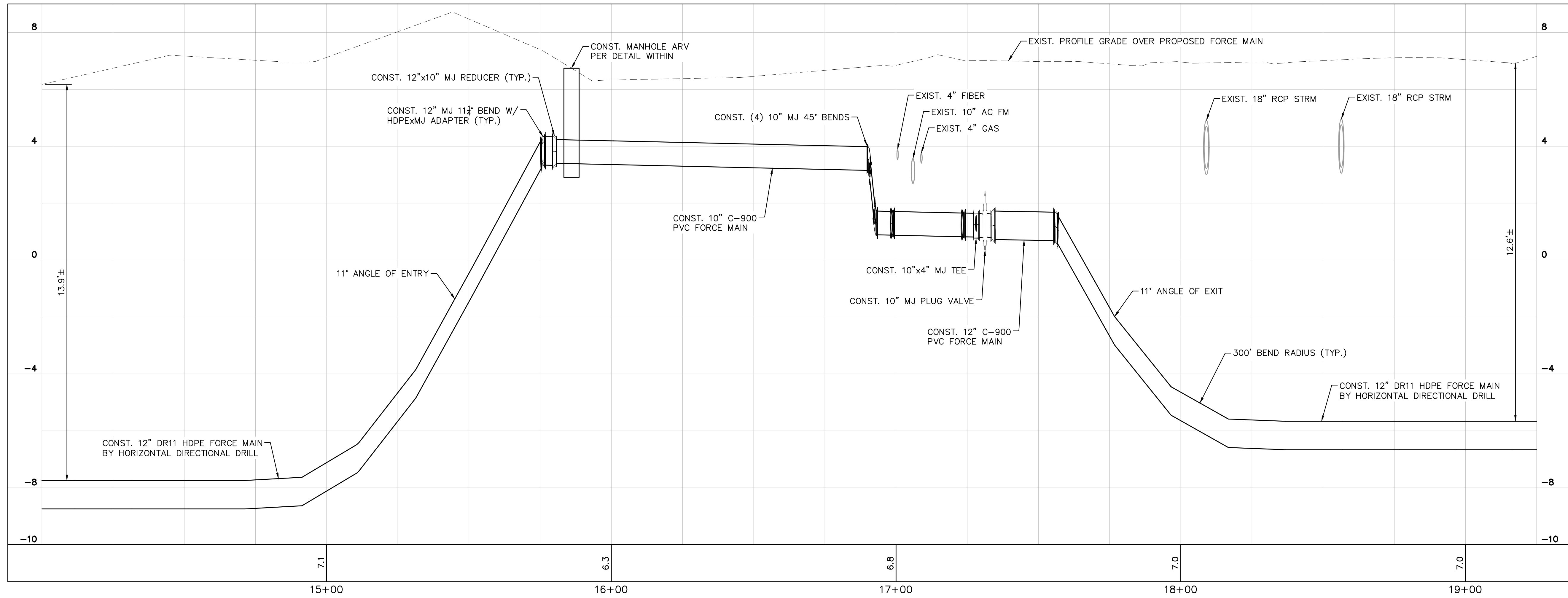
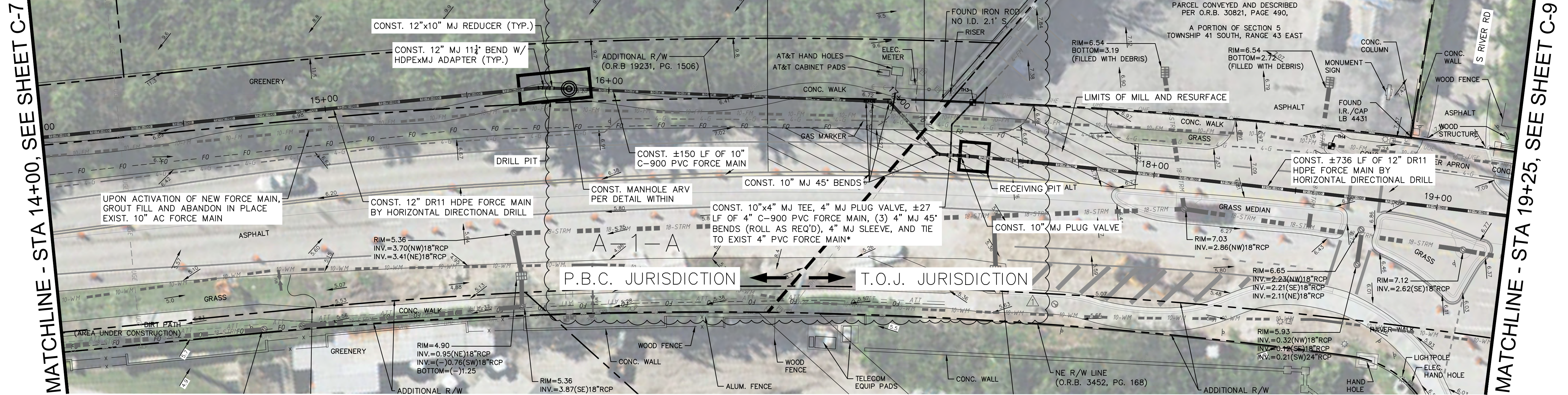
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**A1A FM REPLACEMENT PLAN
AND PROFILE**

SHEET NUMBER

C-7

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NOTE:
1. MAINTAIN MINIMUM 4 FT. HORIZONTAL CLEARANCES FROM OUTSIDE OF ALL PBC UTILITY CONDUITS.
2. MAINTAIN MINIMUM 1 FT. VERTICAL CLEARANCE FROM OUTSIDE OF ALL PBC UTILITY CONDUITS.

***ASBESTOS CONCRETE (A.C.) PIPE DISPOSAL NOTE:** THIS CONNECTION MAY REQUIRE A PORTION OF EXISTING A.C. PIPE TO BE REMOVED AS REQUIRED TO MAKE THE NEW CONNECTIONS SHOWN. CONTRACTOR IS RESPONSIBLE TO HANDLE, BAG AND DISPOSE OF ANY EXISTING A.C. PIPE ACCORDING TO LOCAL AND STATE REGULATIONS.

SIDEWALK RESTORATION NOTE: NO PARTIAL FLAGS WILL BE ACCEPTED IN SIDEWALK RESTORATION

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

VERTICAL DATUM:
ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988. DATUM CONVERSION: NAVD83 + 1.514 = NGVD29

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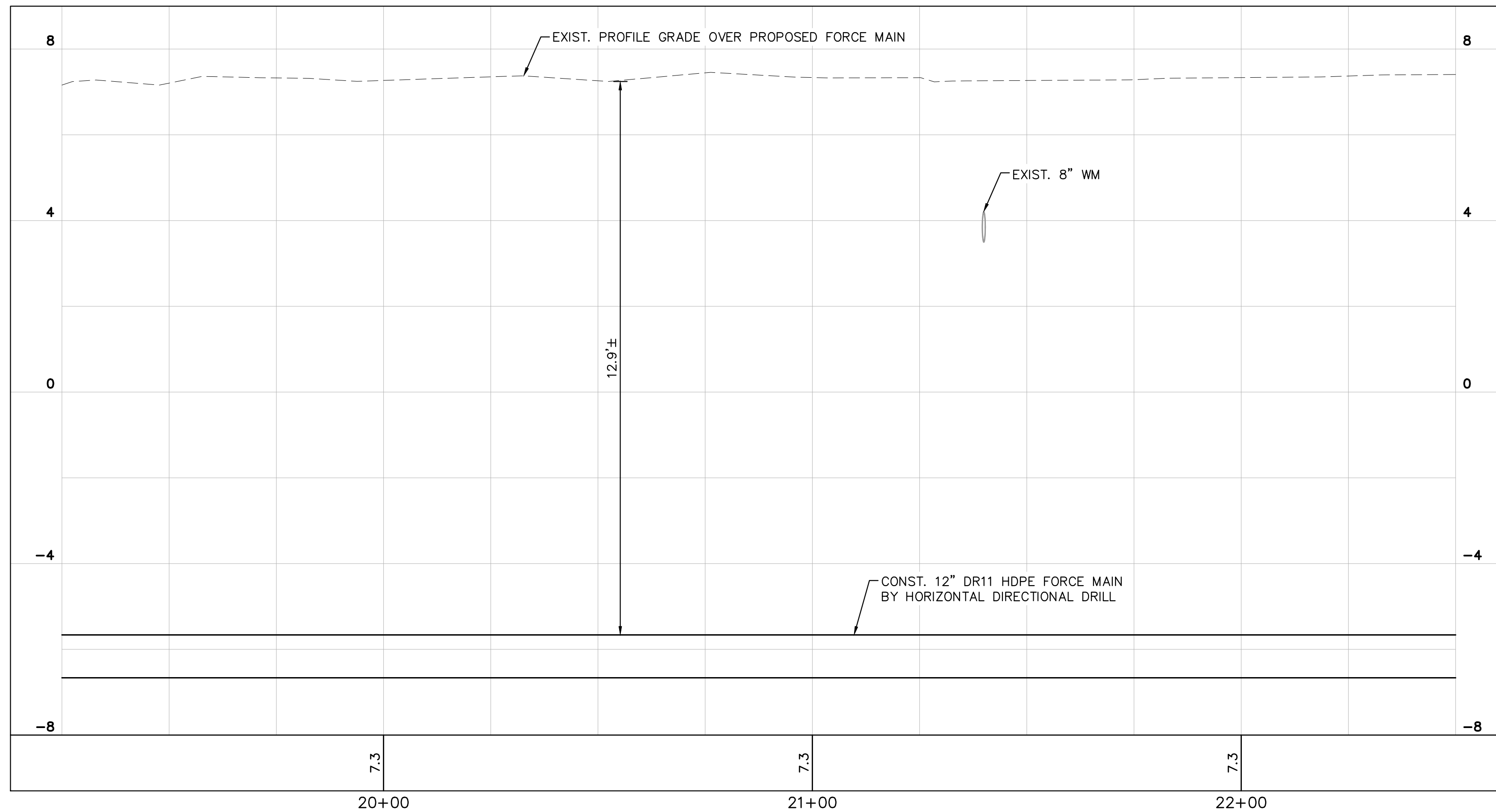
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PREPARED FOR
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JUPITER, FLORIDA


A1A FM REPLACEMENT PLAN AND PROFILE

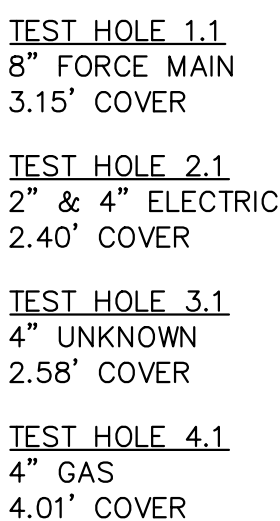
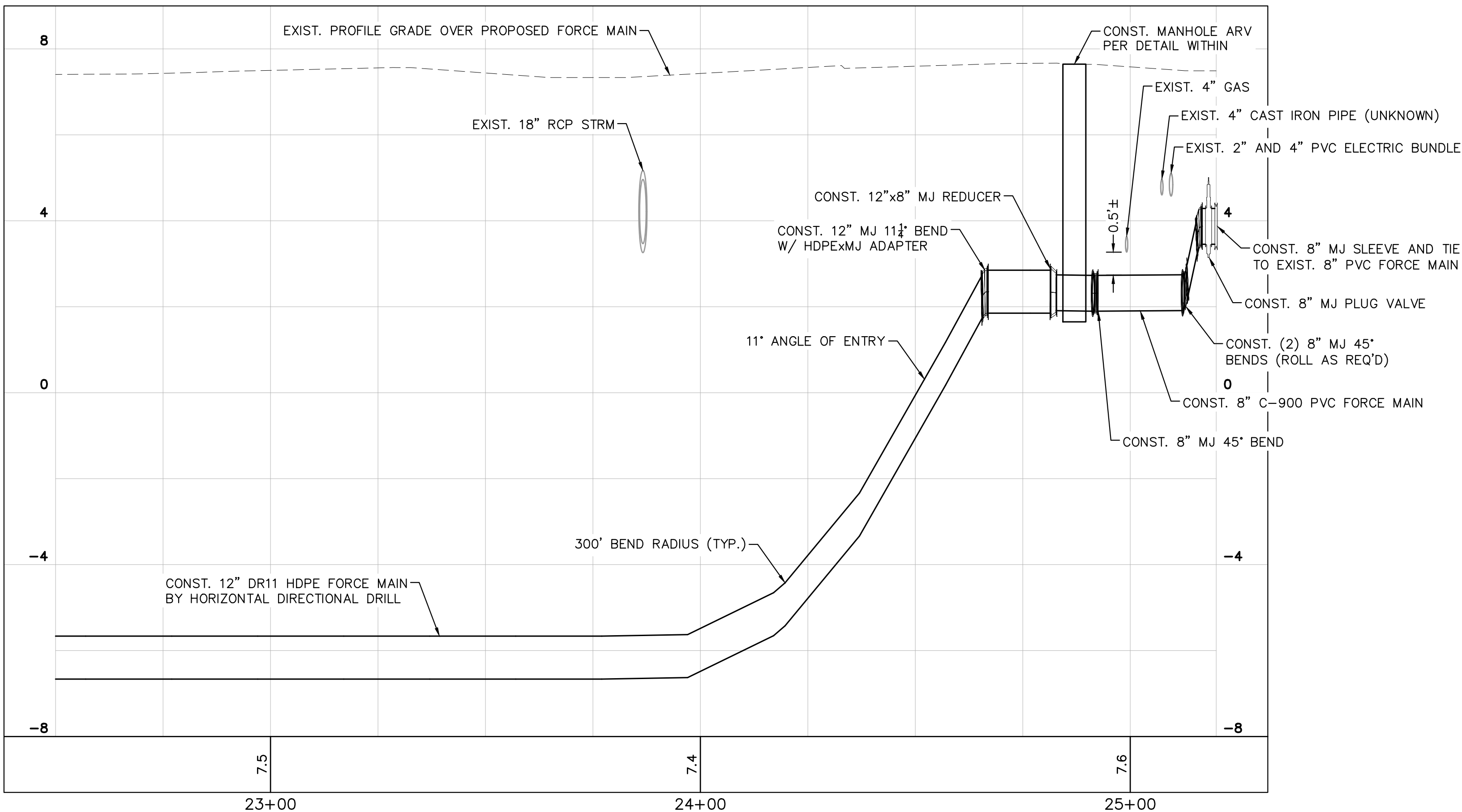
SHEET NUMBER
C-8

No.	REVISIONS	DATE	BY
1	PBC REVISIONS	2-17-25	MJM



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	DATE APR. 2025		<hr/> 37290		
	SCALE AS SHOWN		DATE: ----		
	DESIGNED BY SS				
	DRAWN BY SS				
CHECKED BY TCJ					

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	PBC REVISIONS	2-17-25	MJM	
No.	REVISIONS	DATE	BY	



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PREPARED FOR
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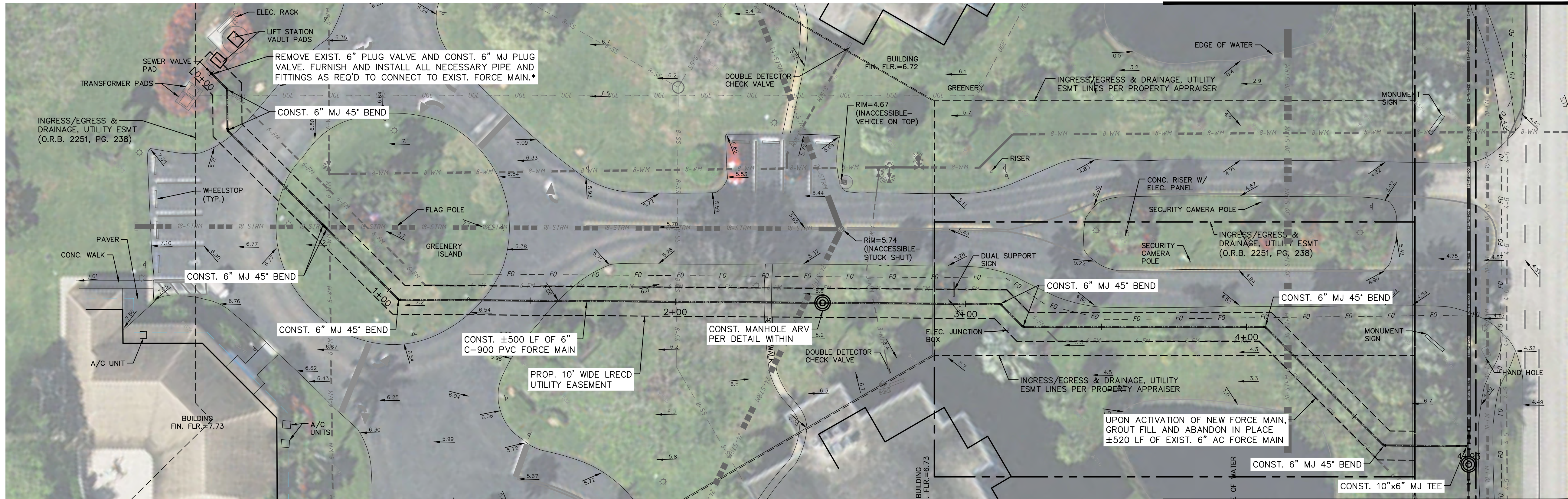
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A1A FM REPLACEMENT PLAN AND PROFILE

SHEET NUMBER

C-10



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PREPARED FOR
LOXAHATCHEE RIVER DISTRICT

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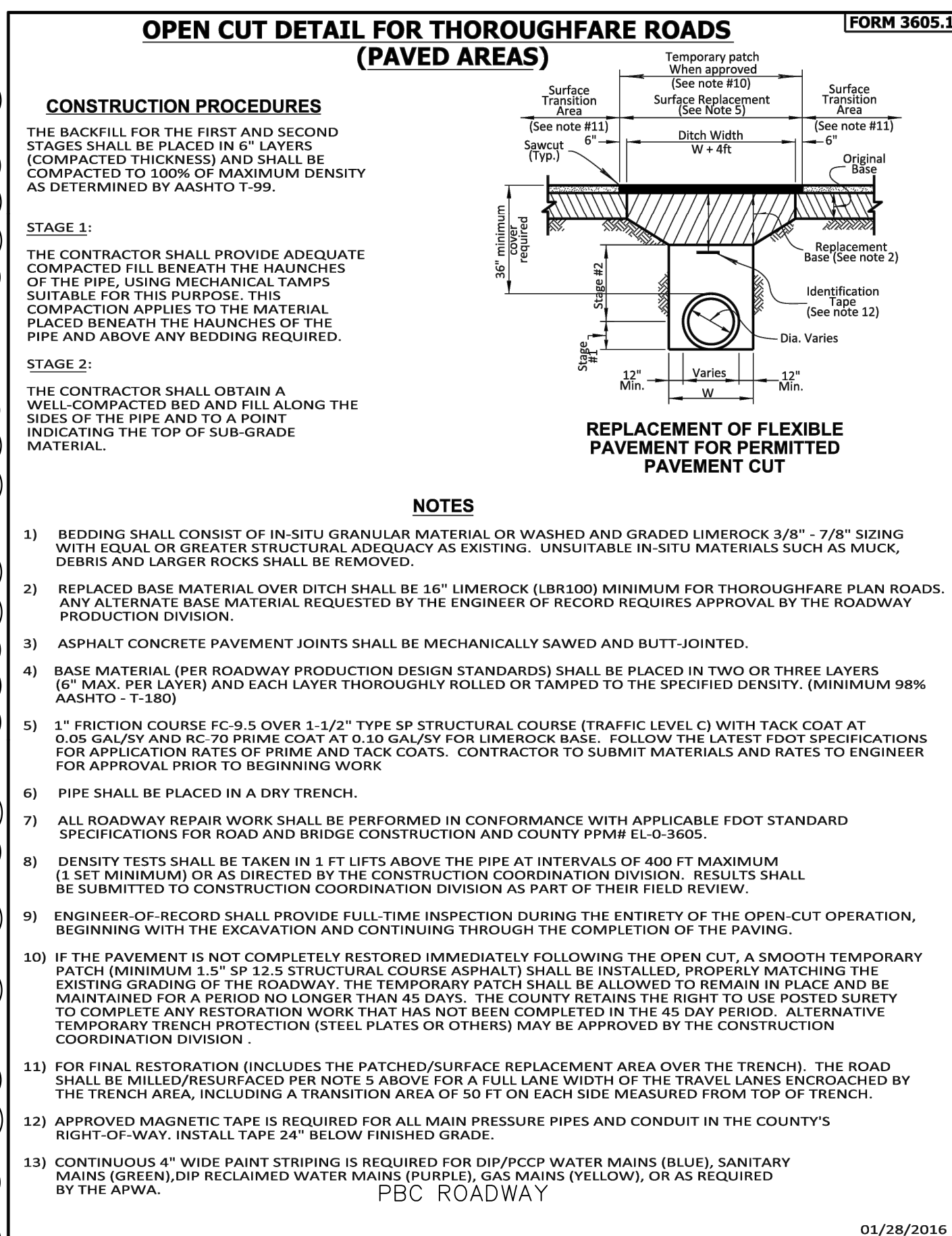
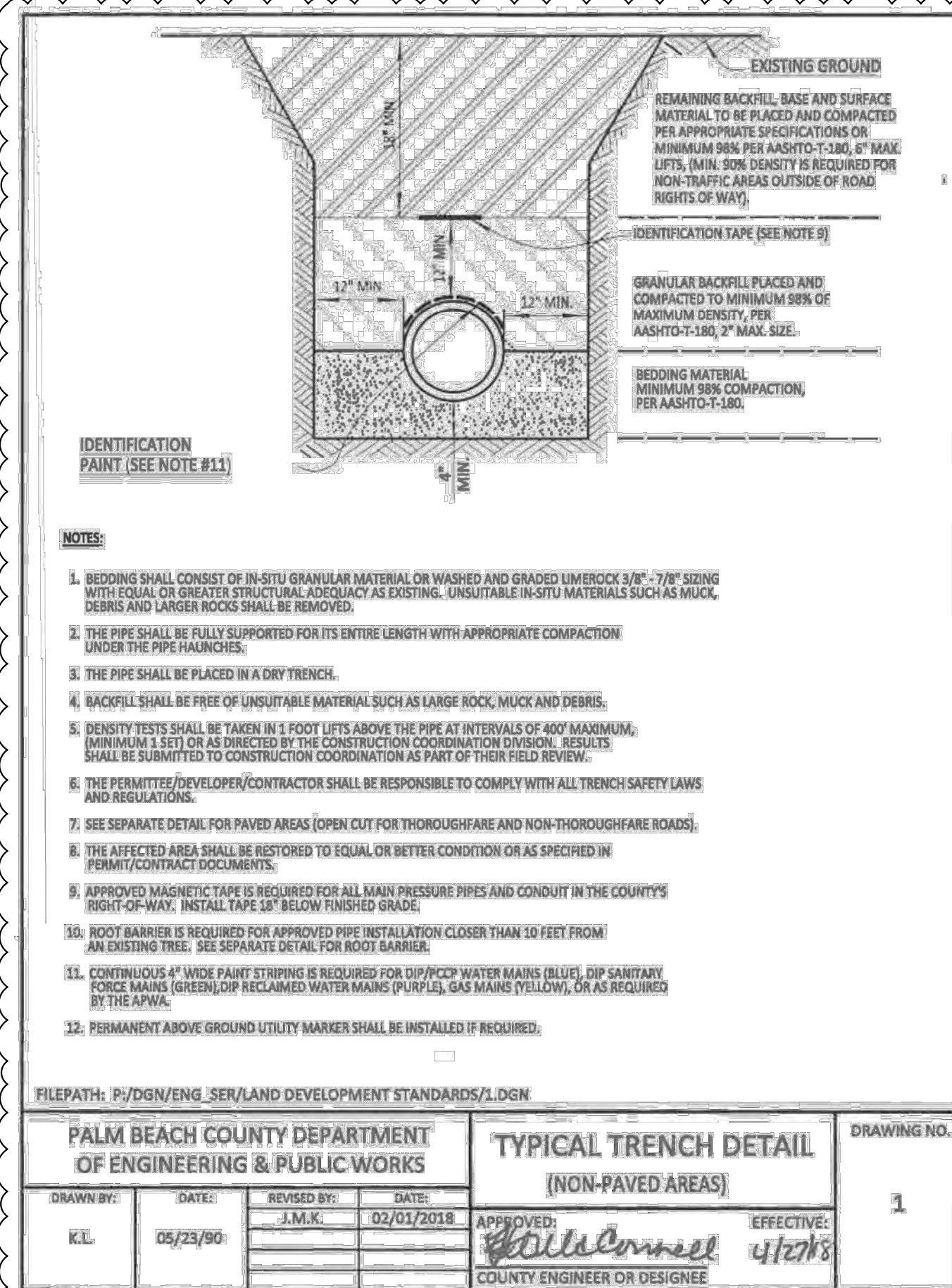
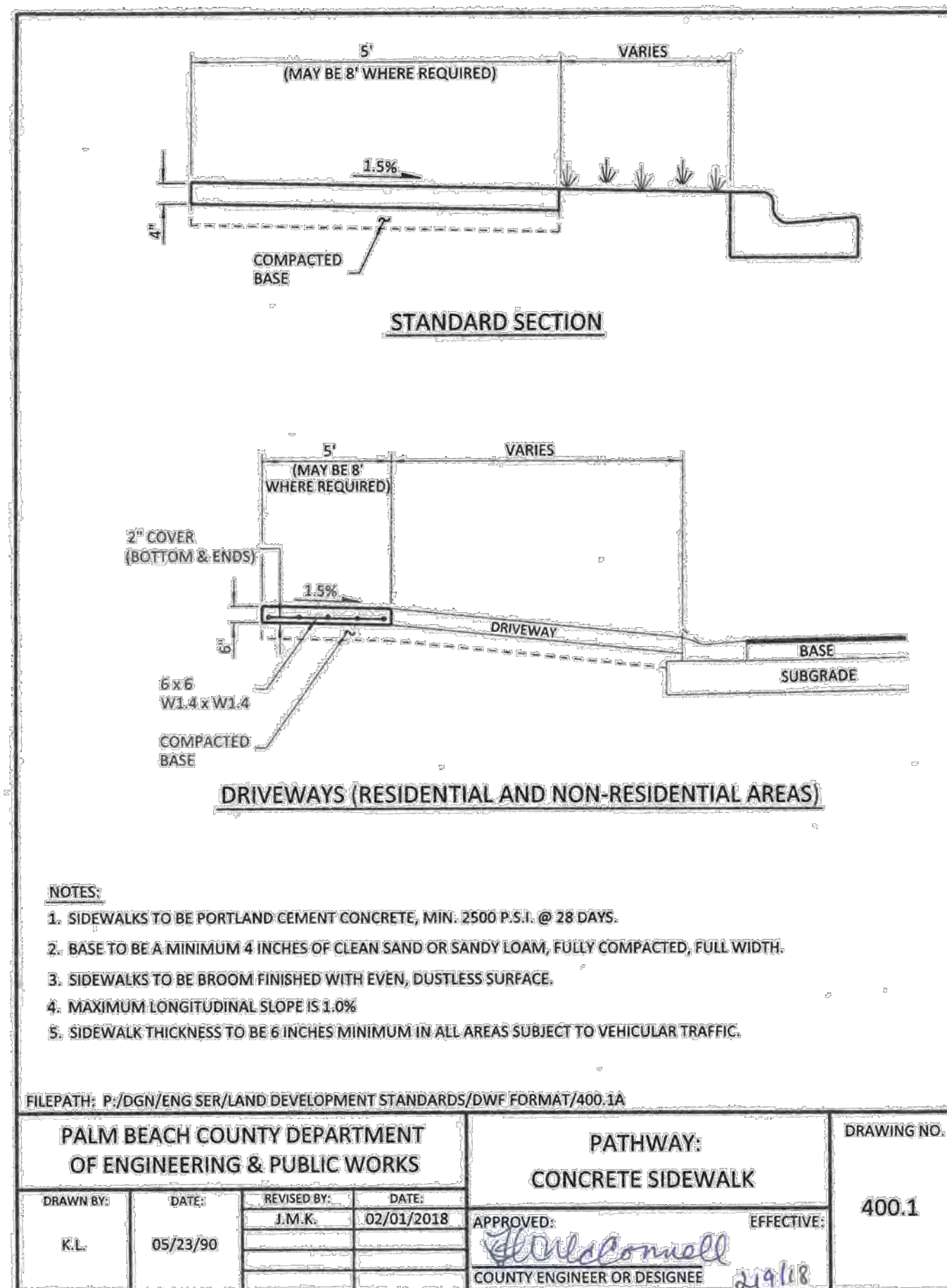
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OCEAN PARKS FM REPLACEMENT PLAN AND PROFILE

SHEET NUMBER

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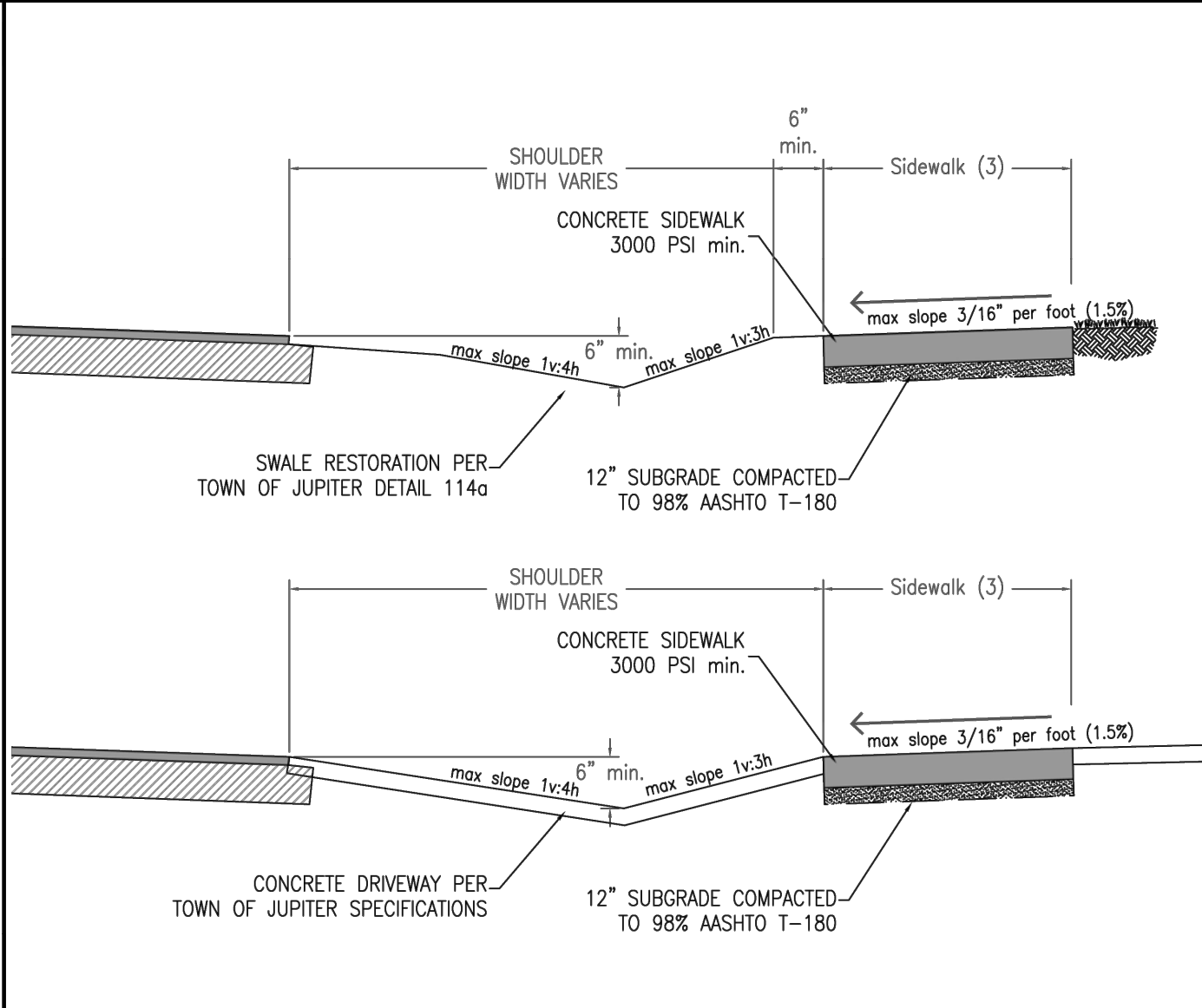
KHA PROJECT
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A1A AND OCEAN PARKS
FM REPLACEMENT
PREPARED FOR
LOXAHATCHEE RIVER DISTRICT
JUPITER, FLORIDA

LICENSED PROFESSIONAL
THOMAS C. JENSEN
37290
DATE: _____

TOWN OF JUPITER STANDARD
DETAILS


SHEET NUMBER
C-13



SHOULDER WIDTH VARIES
CONCRETE SIDEWALK 3000 PSI min.
SIDEWALK (3)
max slope 3/16" per foot (1.5%)
max slope 1v:4h
max slope 1v:3h
6" min.
SWALE RESTORATION PER TOWN OF JUPITER DETAIL 114a
12" SUBGRADE COMPACTED TO 98% AASHTO T-180
CONCRETE DRIVEWAY PER TOWN OF JUPITER SPECIFICATIONS
12" SUBGRADE COMPACTED TO 98% AASHTO T-180

CONCRETE SIDEWALK SECTION DETAIL

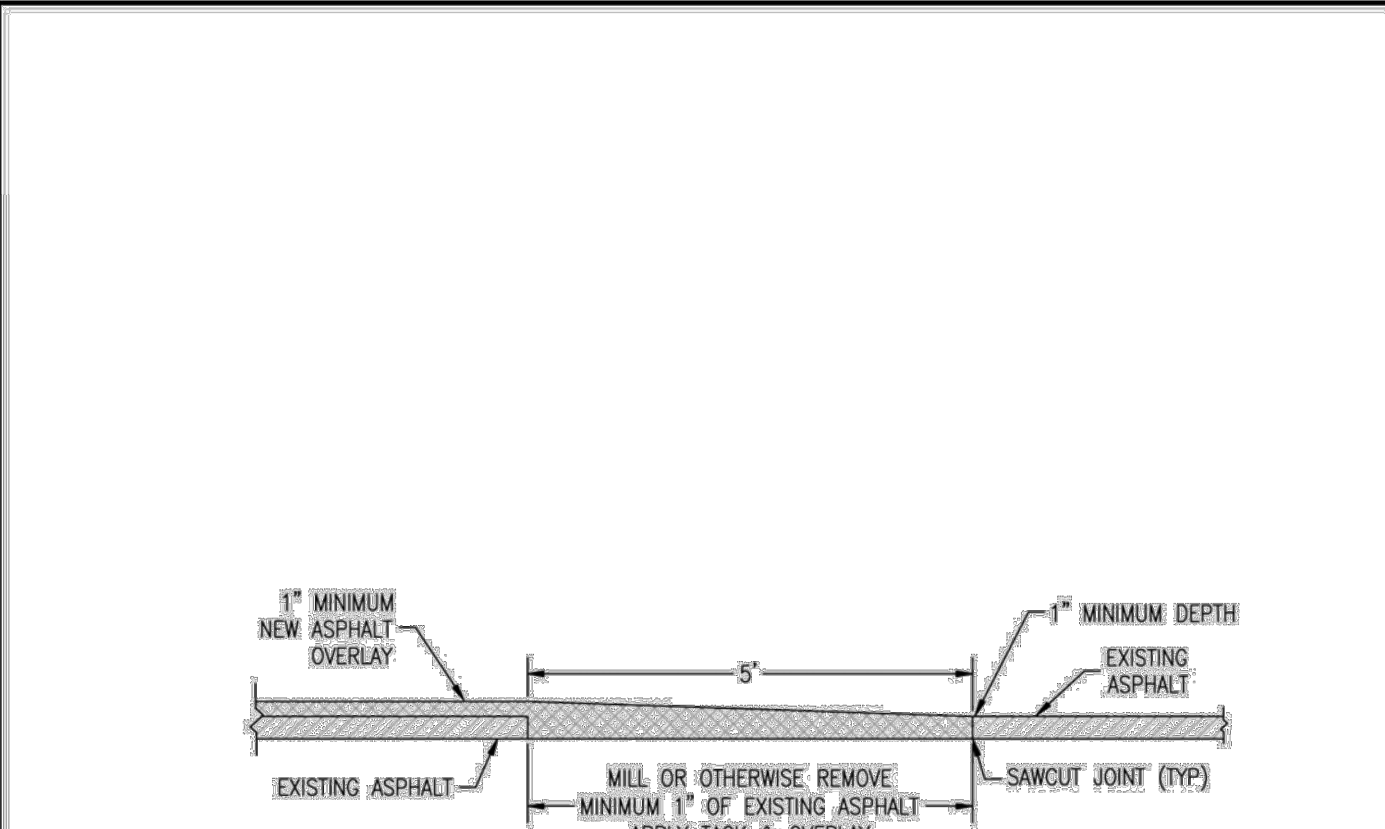
NOTES:
1. SIDEWALK JOINTS SHALL BE IN ACCORDANCE WITH FDOT STANDARDS FOR ROAD CONSTRUCTION, (latest edition), TOPIC # 625-010-003, INDEX 522-001.
2. SIDEWALK TRUE MEASURE DEPTH THROUGH DRIVES/ENTRANCES SHALL BE: 6'-0" FOR RESIDENTIAL DRIVEWAYS, 7'-1/4" FOR COMMERCIAL TURNOUTS AND MULTIFAMILY TURNOUTS, 7'-1/4" FOR INDUSTRIAL TURNOUTS.
3. CONCRETE STRENGTH SHALL BE 3000 PSI MINIMUM AND SHALL HAVE A MINIMUM 470 LB/CY OF PORTLAND CEMENT AND A MAXIMUM WATER TO CEMENT RATIO OF 0.53 LBS/LB.
4. CLEAR ZONE AS DEFINED IN FDOT "FLORIDA GREENBOOK".
5. SIDEWALK EDGE TO MATCH ROAD CROWN ELEVATION TO EXTENT PRACTICAL.
6. MINIMUM SIDEWALK THICKNESS SHALL BE 5-1/2 INCHES.



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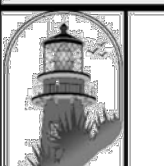
Concrete Sidewalk
DETAIL AND REQUIREMENTS

DETAIL NUMBER
109a
Revised 202311



1" MINIMUM NEW ASPHALT OVERLAY
EXISTING ASPHALT
5'
1" MINIMUM DEPTH EXISTING ASPHALT
MILL OR OTHERWISE REMOVE MINIMUM 1" OF EXISTING ASPHALT
APPLY TACK & OVERLAY
SAWCUT JOINT (TYP)
NOTE: IF EXISTING BASE IS DISTURBED, BASE SHALL BE GRADED AND RE-COMPACTED PRIOR TO PRIME/TACK COAT PLACEMENT AND OVERLAY.

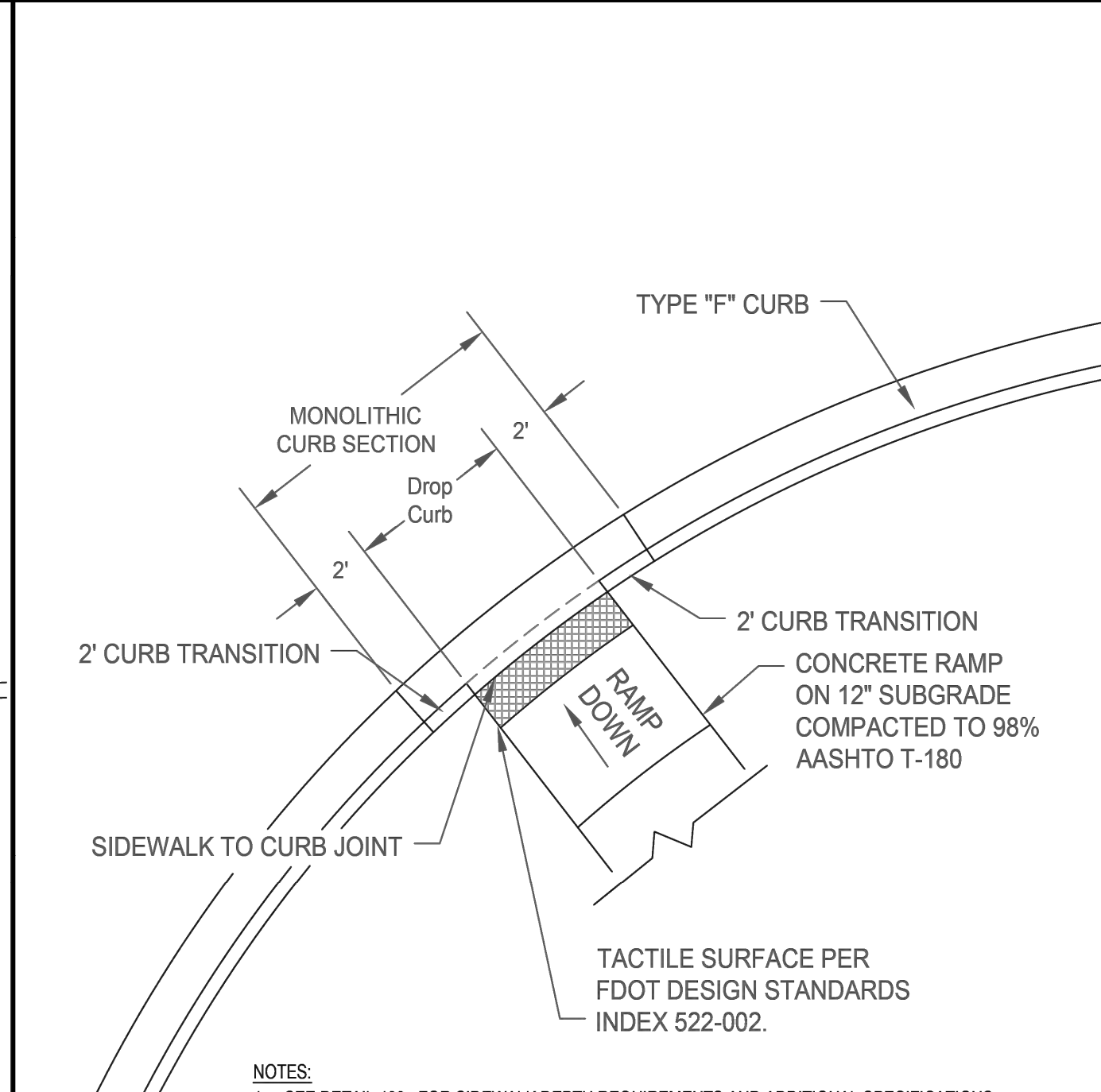
TRANSITION OF ASPHALT OVERLAY TO EXISTING PAVEMENT ELEVATION



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ASPHALT OVERLAY
Transition to Existing Asphalt
DETAIL AND REQUIREMENTS

DETAIL NUMBER
112a
Revised 202402



TYPE "F" CURB
MONOLITHIC CURB SECTION
Drop Curb
2' CURB TRANSITION
CONCRETE RAMP ON 12" SUBGRADE COMPACTED TO 98% AASHTO T-180
SIDEWALK TO CURB JOINT
RAMP DOWN
TACTILE SURFACE PER FDOT DESIGN STANDARDS INDEX 522-002.

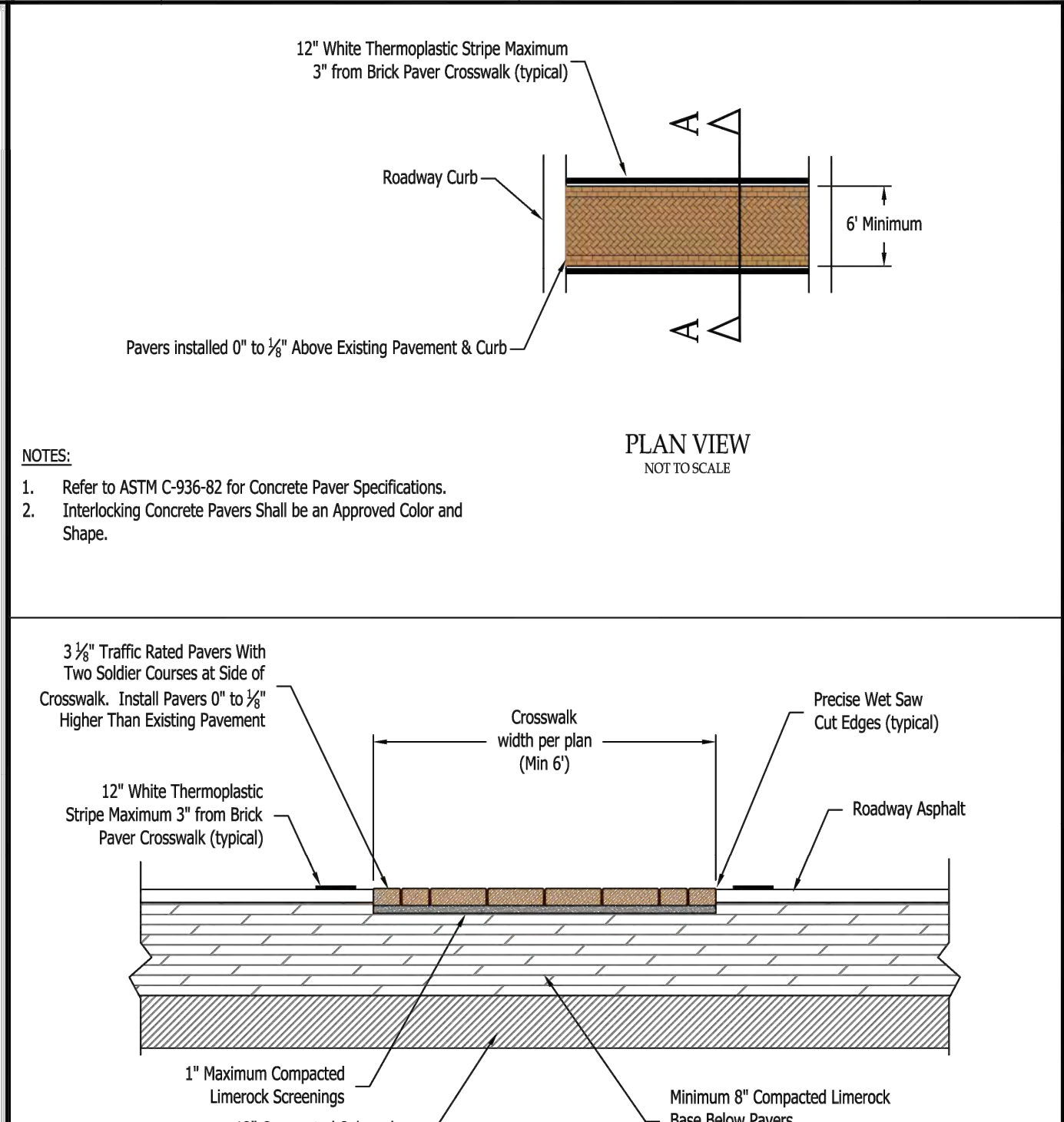
NOTES:
1. SEE DETAIL 109a FOR SIDEWALK DEPTH REQUIREMENTS AND ADDITIONAL SPECIFICATIONS.




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ADA SIDEWALK RAMP
DETAIL AND REQUIREMENTS

DETAIL NUMBER
109b
Revised 20230801



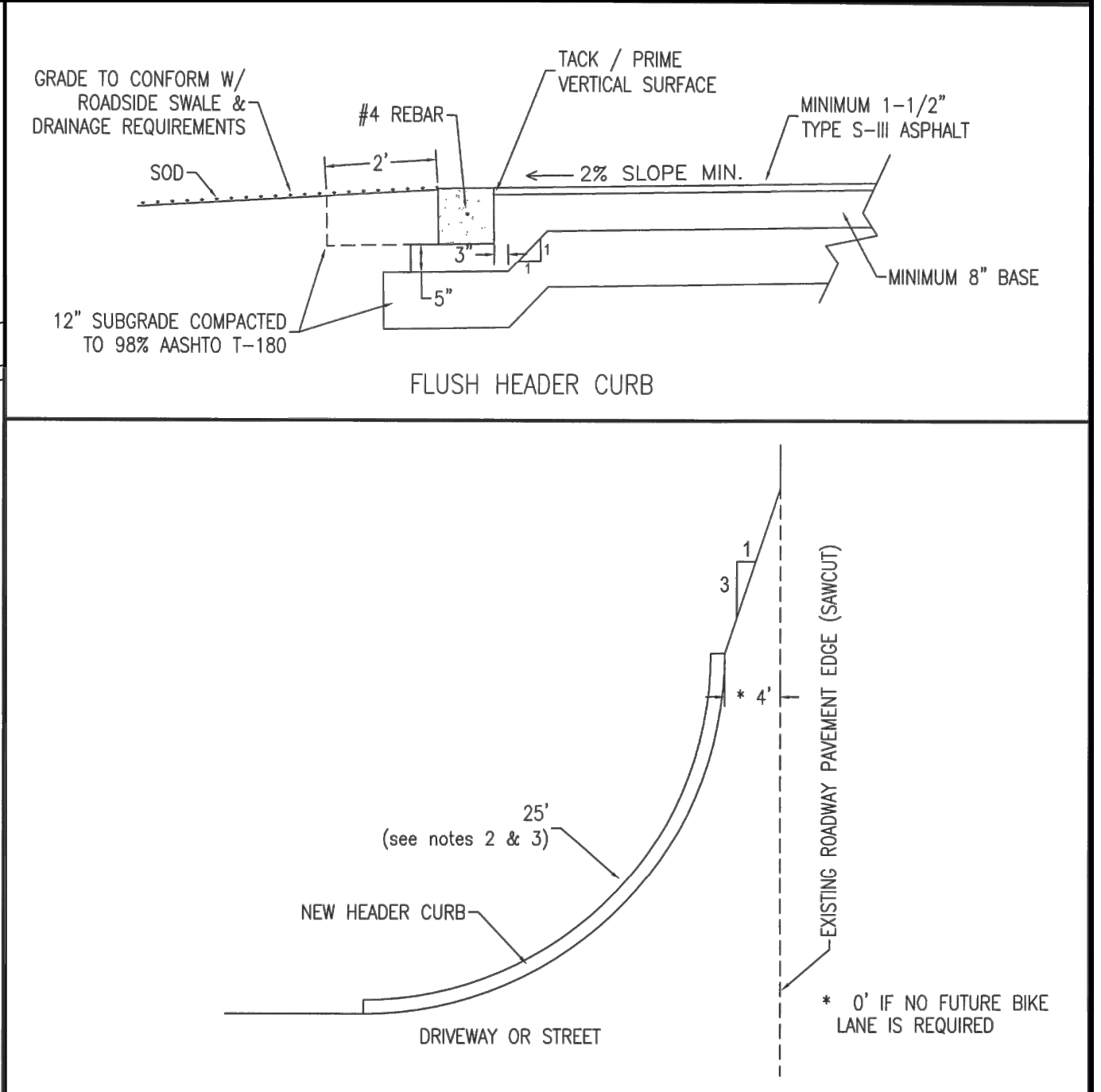
12" White Thermoplastic Stripe Maximum 3" from Brick Paver Crosswalk (typical)
Roadway Curb
Pavers installed 0" to 1/8" Above Existing Pavement & Curb
PLAN VIEW NOT TO SCALE
NOTES:
1. Refer to ASTM C-936-82 for Concrete Paver Specifications.
2. Interlocking Concrete Pavers Shall be an Approved Color and Shape.
3 1/2" Traffic Rated Pavers With Two Soldier Courses at Side of Crosswalk. Install Pavers 0" to 1/8" Higher Than Existing Pavement
Precise Wet Saw Cut Edges (typical)
Roadway Asphalt
12" White Thermoplastic Stripe Maximum 3" from Brick Paver Crosswalk (typical)
1" Maximum Compacted Limerock Screenings
12" Compacted Subgrade (98% AASHTO T-180)
Minimum 8" Compacted Limerock Base Below Pavers (98% AASHTO T-180)
SECTION A - A
TYPICAL PAVER CROSSWALK SECTION & DETAIL
N.T.S.



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CONCRETE PAVER SYSTEM
for CROSSWALKS
DETAIL AND REQUIREMENTS

DETAIL NUMBER
116
Revised 1/21/2014



GRADE TO CONFORM W/ ROADSIDE SWALE & DRAINAGE REQUIREMENTS
SOD
#4 REBAR
TACK / PRIME VERTICAL SURFACE
MINIMUM 1-1/2" TYPE S-III ASPHALT
2% SLOPE MIN.
MINIMUM 8" BASE
12" SUBGRADE COMPACTED TO 98% AASHTO T-180
FLUSH HEADER CURB
NEW HEADER CURB
EXISTING ROADWAY PAVEMENT EDGE (S.W.CUT)
DRIVEWAY OR STREET
25'
1
3
4'
* 0' IF NO FUTURE BIKE LANE IS REQUIRED
FLUSH HEADER CURB @ INTERSECTIONS DETAIL

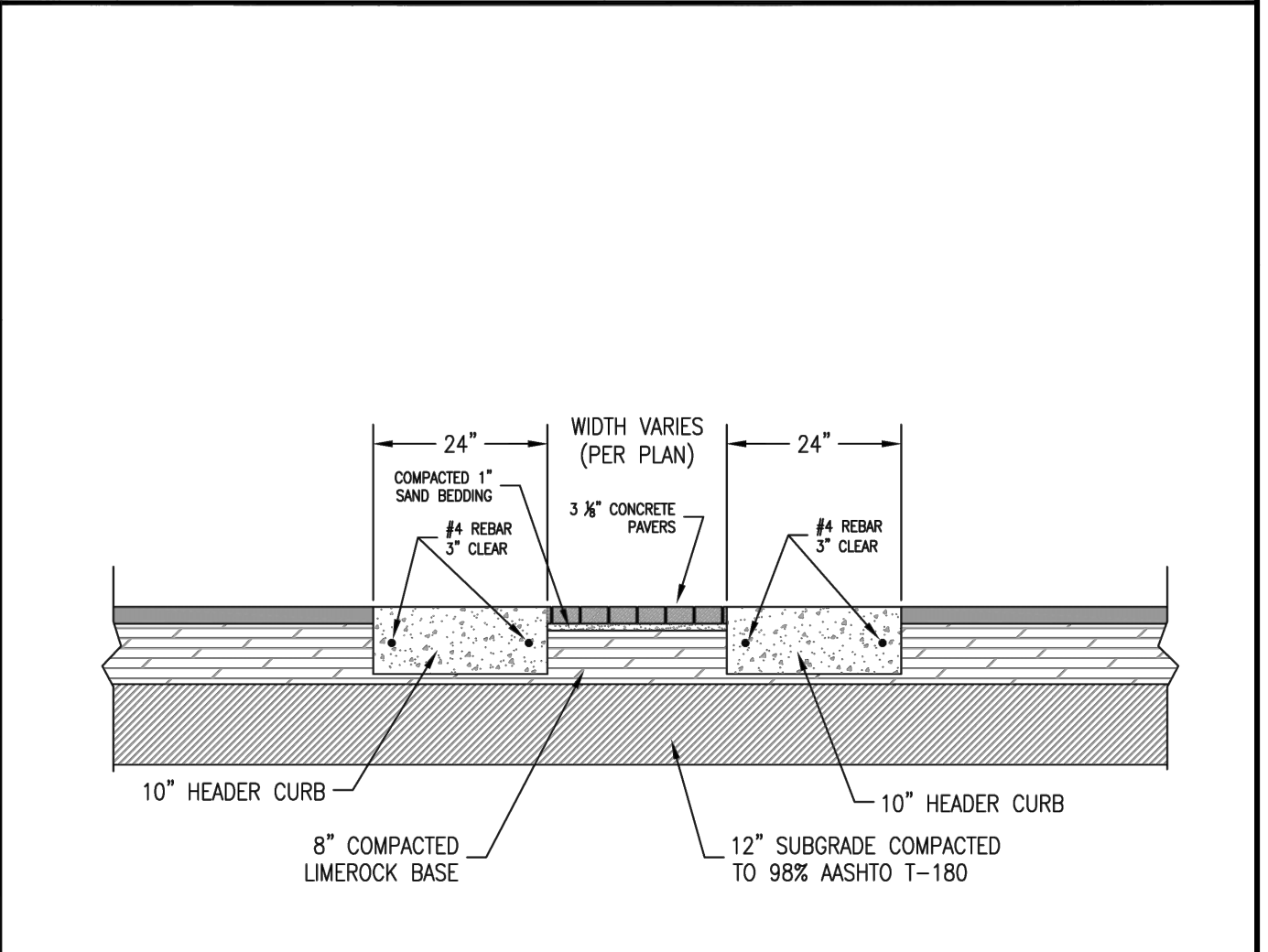
NOTES:
1. SEE TYPICAL DETAIL FOR ROADWAY OR ALLEY CONSTRUCTION FOR PAVEMENT SECTION SPECIFICATIONS.
2. ALTERNATE RADII MAY BE USED IF APPROVED BY TOWN ENGINEER.
3. LARGER RADII MAY BE REQUIRED BASED ON TOWN ENGINEER DIRECTION FOR HIGHER VOLUME ROAD INTERSECTIONS, ARTERIAL ROADS, OR HIGH TRUCK TRAFFIC AREAS.



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PAVEMENT EDGE
FLUSH HEADER CURB
DETAIL AND REQUIREMENTS

DETAIL NUMBER
110
Revised 20070005



24"
WIDTH VARIES (PER PLAN)
24"
COMPACTED 1" SAND BEDDING
#4 REBAR 3" CLEAR
3 1/2" CONCRETE PAVERS
#4 REBAR 3" CLEAR
10" HEADER CURB
8" COMPACTED LIMEROCK BASE
12" SUBGRADE COMPACTED TO 98% AASHTO T-180
10" HEADER CURB

NOTES:
1. REFER TO ASTM C 936-82 AND SECTION 526, CONCRETE PAVERS IN THE T.O.J. SPECIFICATIONS FOR INSTALLATION REQUIREMENTS.
2. CONCRETE HEADER TO BE 3,000 PSI STANDARD MIX CONCRETE.
3. CONTRACTOR MAY CONSIDER USE OF MORTAR MIX WITH SAND BED TO STABILIZE THE PAVER SYSTEM & MINIMIZE SETTLEMENT.
4. HEADER CURB SHALL BE WHITE CONCRETE WITH GLASS BEADS SET IN SURFACE OF CONCRETE FINISH.
5. INTERLOCKING CONCRETE PAVERS SHALL BE "OLD CHICAGO" COLOR, 8"x4" SHAPE AND MANUFACTURED BY TREMPON CONCRETE INNOVATIONS OR APPROVED EQUAL.

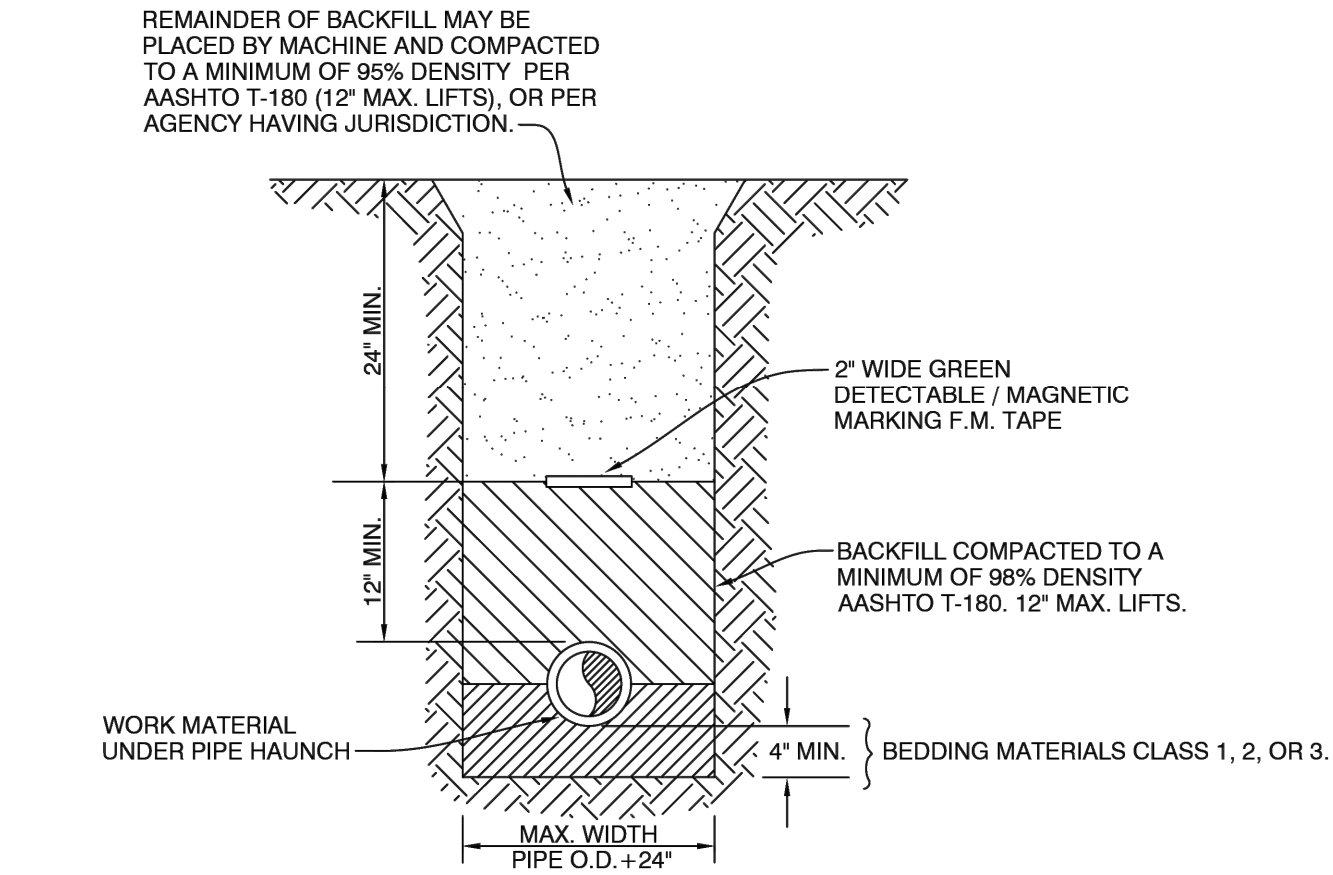


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PAVER PEDESTRIAN CROSSING
& SPECIAL HEADER CURB
DETAIL AND REQUIREMENTS

DETAIL NUMBER
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Revised 20080703

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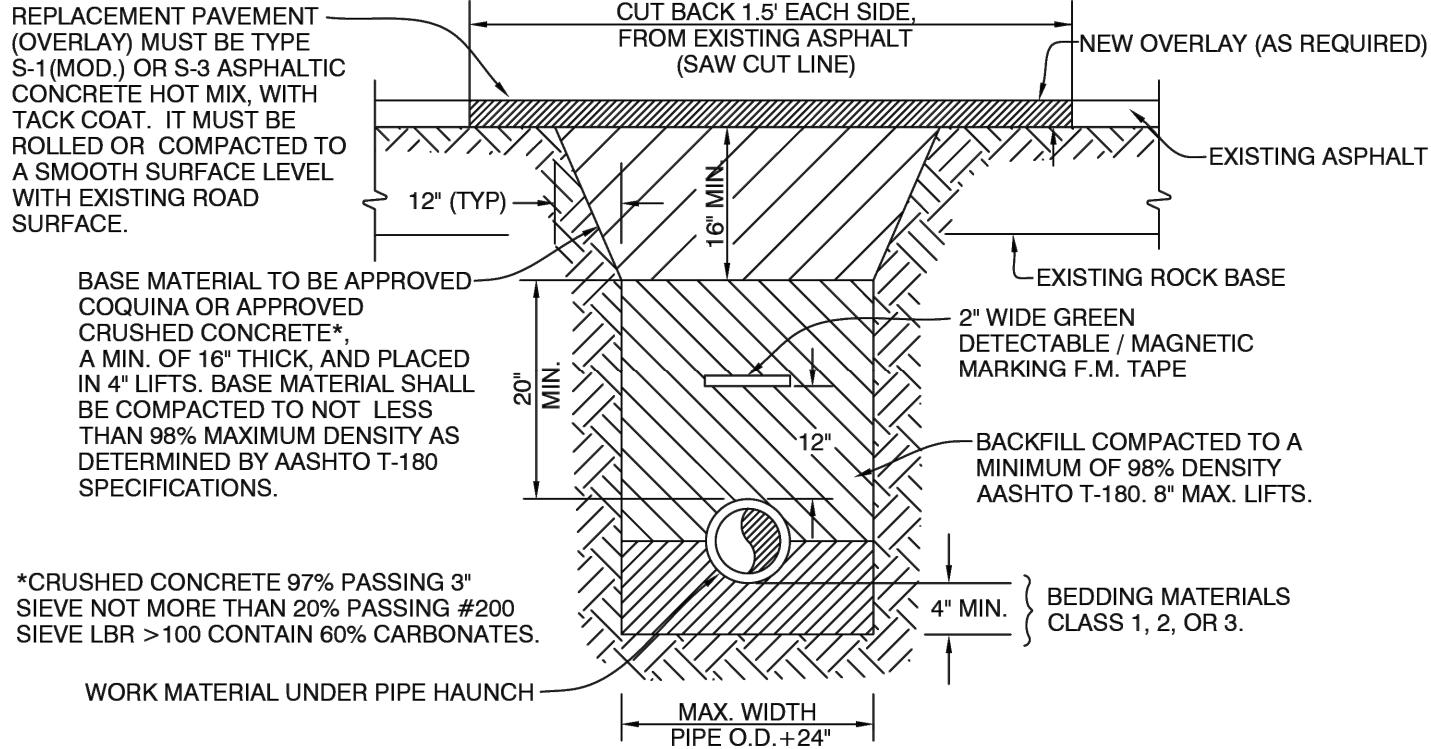
NOTES:

CLASS 1 MATERIAL - ANGULAR .25" TO .75" GRADED STONE SUCH AS CORAL, CRUSHED STONE, OR CRUSHED SHELLS OR BEDDING ROCK (100% PASSING 1" SIEVE).

CLASS 2 MATERIAL - COURSE SAND AND GRAVEL'S WITH MAXIMUM PARTICLE SIZE OF .25 INCH WITH SMALL PERCENTAGE OF FINES. COMPACT TO A MIN. 98% DENSITY PER AASHTO T-180.

CLASS 3 MATERIAL - FINE SAND AND CLAYEY GRAVEL'S, INCLUDING FINE SANDS, SAND-CLAY MIXTURES AND GRAVEL-CLAY MIXTURES. INCLUDED IN CLASS 3 ARE EXISTING SOIL TYPES CLASSIFIED AS SELECT BACKFILL. COMPACT TO A MIN. 98% DENSITY PER AASHTO T-180.

- 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.
- DENSITY TESTING IS REQUIRED IN 1 FOOT LIFTS ABOVE PIPELINE AT INTERVALS OF 400' MAXIMUM.
- UNSUITABLE IN-SITU MATERIAL SUCH AS MUCK, DEBRIS AND LARGER ROCKS SHALL BE REMOVED.
- THE AFFECTED AREA SHALL BE RESTORED TO EQUAL OR BETTER CONDITION OR AS SPECIFIED IN PERMIT / CONTRACT DOCUMENTS.
- EMS MARKER REQUIRED MINIMUM EVERY 300 FEET OF PRESSURE PIPELINE.



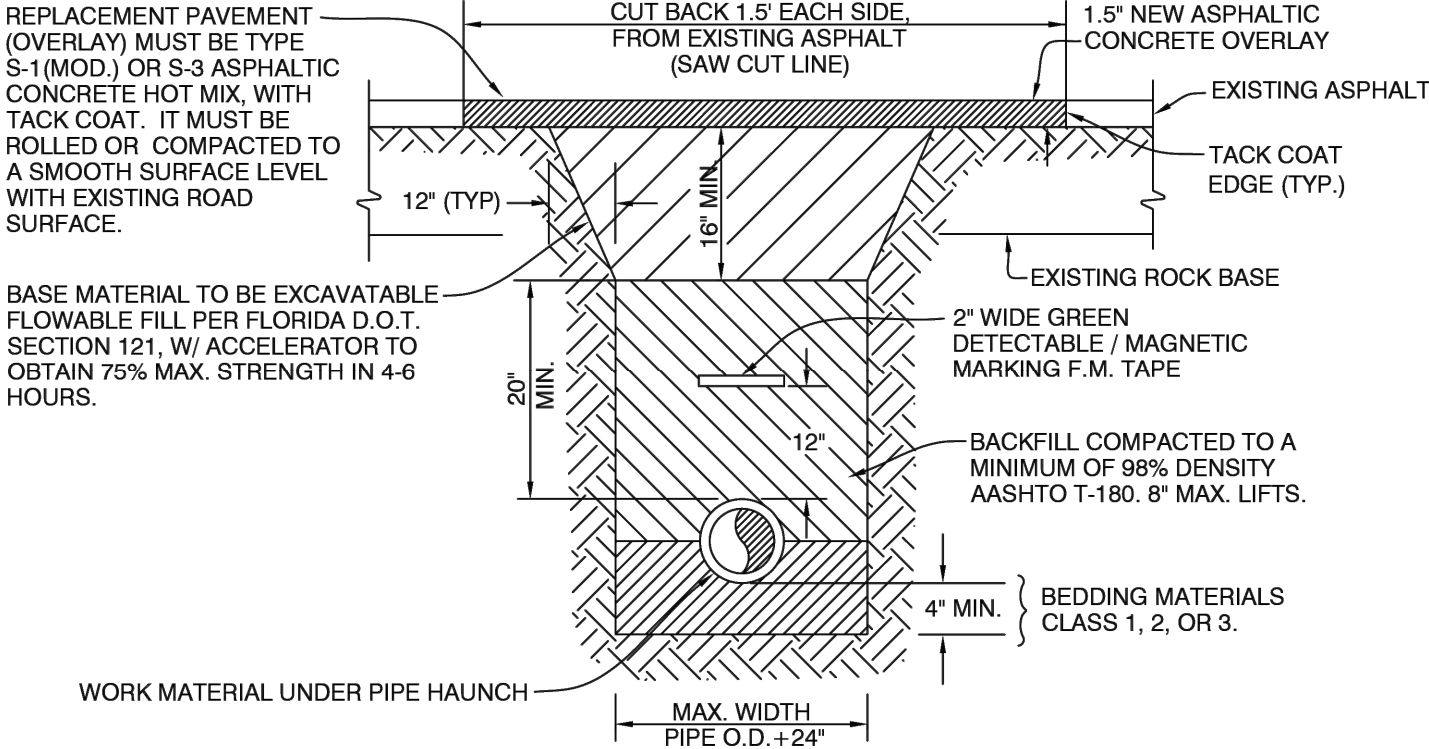
NOTES:

CLASS 1 MATERIAL - ANGULAR .25" TO .75" GRADED STONE SUCH AS CORAL, CRUSHED STONE, OR CRUSHED SHELLS OR BEDDING ROCK (100% PASSING 1" SIEVE).

CLASS 2 MATERIAL - COURSE SAND AND GRAVEL'S WITH MAXIMUM PARTICLE SIZE OF .25 INCH WITH SMALL PERCENTAGE OF FINES. COMPACT TO A MIN. 98% DENSITY PER AASHTO T-180.

CLASS 3 MATERIAL - FINE SAND AND CLAYEY GRAVEL'S, INCLUDING FINE SANDS, SAND-CLAY MIXTURES AND GRAVEL-CLAY MIXTURES. INCLUDED IN CLASS 3 ARE EXISTING SOIL TYPES CLASSIFIED AS SELECT BACKFILL. COMPACT TO A MIN. 98% DENSITY PER AASHTO T-180.

- ALL CUTS WILL REQUIRE COMPACTION TO DENSITY SPECIFICATIONS.
- SAW CUT ASPHALT BEFORE EXCAVATING.
- COMPACTION MUST BE DONE BY A MECHANICAL VIBRATORY COMPACTOR. EACH LIFT MUST RECEIVE 5 PASSES OF THE COMPACTOR OVER ENTIRE SURFACE. BEFORE COMPACTING 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.
- UNSUITABLE IN-SITU MATERIAL SUCH AS MUCK, DEBRIS AND LARGER ROCKS SHALL BE REMOVED.
- THE AFFECTED AREA SHALL BE RESTORED TO EQUAL OR BETTER CONDITION OR AS SPECIFIED IN PERMIT / CONTRACT DOCUMENTS.
- EMS MARKER REQUIRED MINIMUM EVERY 300 FEET OF PRESSURE PIPELINE.



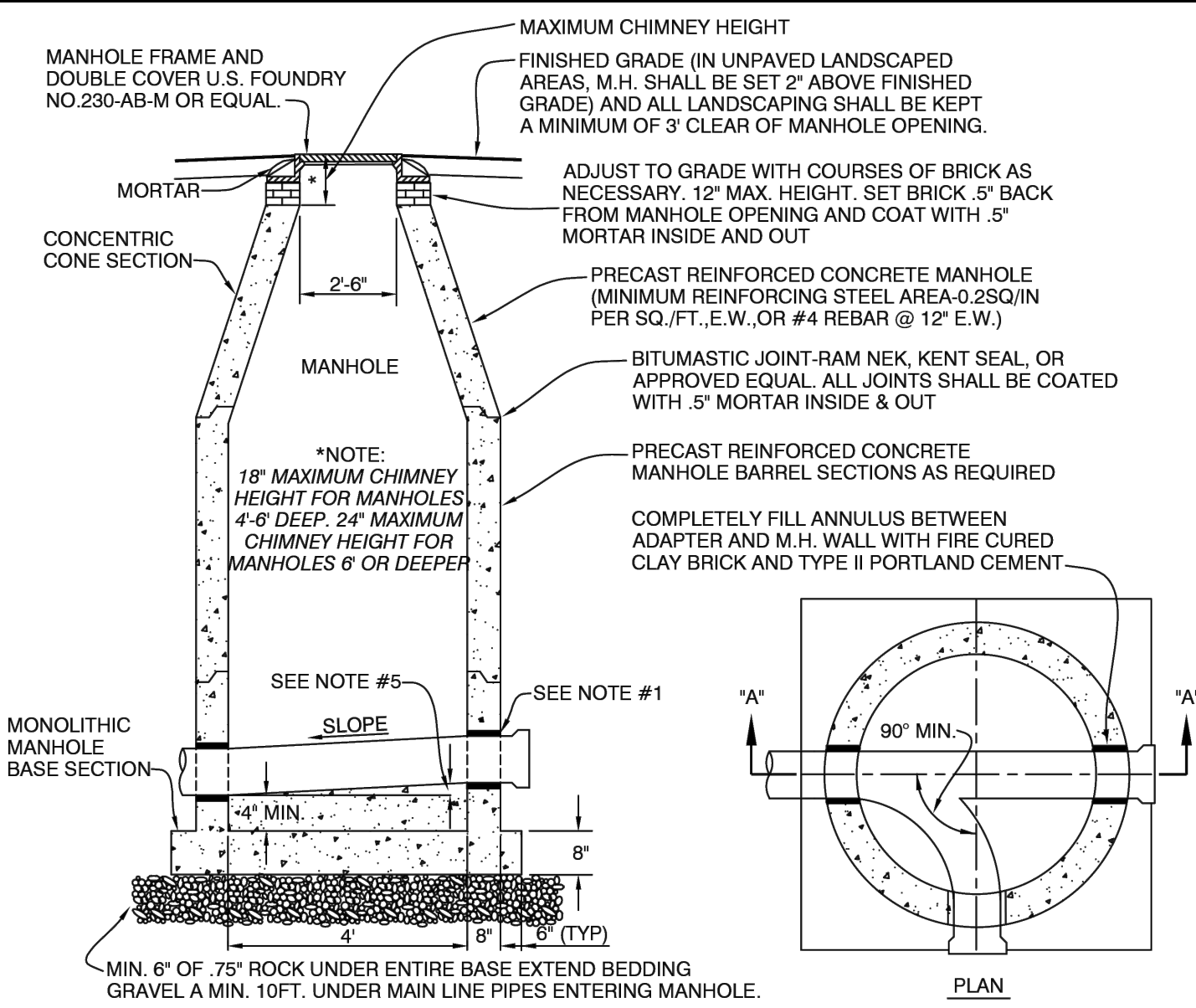
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- SAW CUT ASPHALT BEFORE EXCAVATING.
- COMPACTION MUST BE DONE BY A MECHANICAL VIBRATORY COMPACTOR. EACH LIFT MUST RECEIVE 5 PASSES OF THE COMPACTOR OVER ENTIRE SURFACE. BEFORE COMPACTING EACH LIFT, WATER MUST BE APPLIED AT THE RATE OF 1 GAL. PER LINEAL 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.
- UNSUITABLE IN-SITU MATERIAL SUCH AS MUCK, DEBRIS AND LARGER ROCKS SHALL BE REMOVED.
- THE AFFECTED AREA SHALL BE RESTORED TO EQUAL OR BETTER CONDITION OR AS SPECIFIED IN PERMIT / CONTRACT DOCUMENTS.
- EMS MARKER REQUIRED MINIMUM EVERY 300 FEET OF PRESSURE PIPELINE.



NOTES:

- WHEN THE MAIN LINE IS PVC, A DISTRICT APPROVED HEAVY AGGREGATE COATED PVC M.H. ADAPTER (HARCO OR EQUAL) OR FERROCO M.H. ADAPTER SHALL BE USED. CAST IN PLACE RUBBER BOOTS WITH STAINLESS STEEL HARDWARE (CAST-A-SEAL 12-08 FOR 8", Z-LOC C-107 FOR ALL OTHER SIZES) MAY BE USED AS AN ALTERNATE.
- CHANNEL WIDTHS AND INVERT RADII VARY UNIFORMLY FROM END TO END.
- ALL HOLES FOR PIPES SHALL BE CAST INTO THE MANHOLES. OPENINGS REQUIRED ON ALL EXISTING MANHOLES SHALL BE CORED WITH APPROVED MACHINES.
- 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 .5' AND LESS THAN 2'. THE MANHOLE SHALL BE 5'-0". ALL INSIDE DROP MANHOLES SHALL BE 5' I.D. (SEE DETAIL SD-12).
- A MINIMUM DIFFERENTIAL OF 1" SHALL BE PROVIDED BETWEEN THE INLET AND OUTLET PIPE INVERTS.
- ALL MANHOLES 14" OR MORE FROM RIM TO LOWEST INVERT, SHALL RECEIVE A MINIMUM 0.5" THICK COATING OF SEWPERCOAT OR APPROVED EQUAL.
- ALL MANHOLES IN A WELL FIELD PROTECTION ZONE 1 OR 2, SHALL RECEIVE A MINIMUM 1" THICK COATING OF SEWPERCOAT OR APPROVED EQUAL.

LOXAHATCHEE RIVER DISTRICT

N.T.S.
REVISION:
JULY, 2019

TYPICAL TRENCH DETAIL
FOR NON - PAVED AREAS

SD-1

LOXAHATCHEE RIVER DISTRICT

N.T.S.
REVISION:
JULY, 2019

TYPICAL TRENCH & PAVEMENT
RESTORATION DETAIL

SD-2

LOXAHATCHEE RIVER DISTRICT

N.T.S.
REVISION:
JULY, 2019

TYPICAL TRENCH & PAVEMENT RESTORATION
W/ FLOWABLE FILL DETAIL

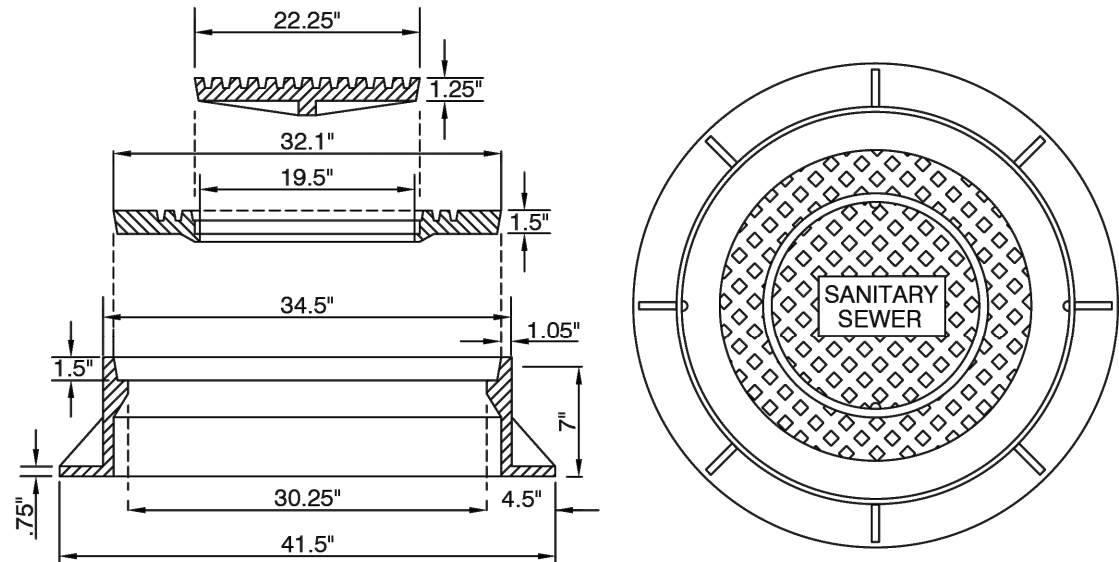
SD-3

LOXAHATCHEE RIVER DISTRICT

N.T.S.
REVISION:
MARCH, 2017

PRECAST MANHOLE DETAIL

SD-11



NOTES:

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

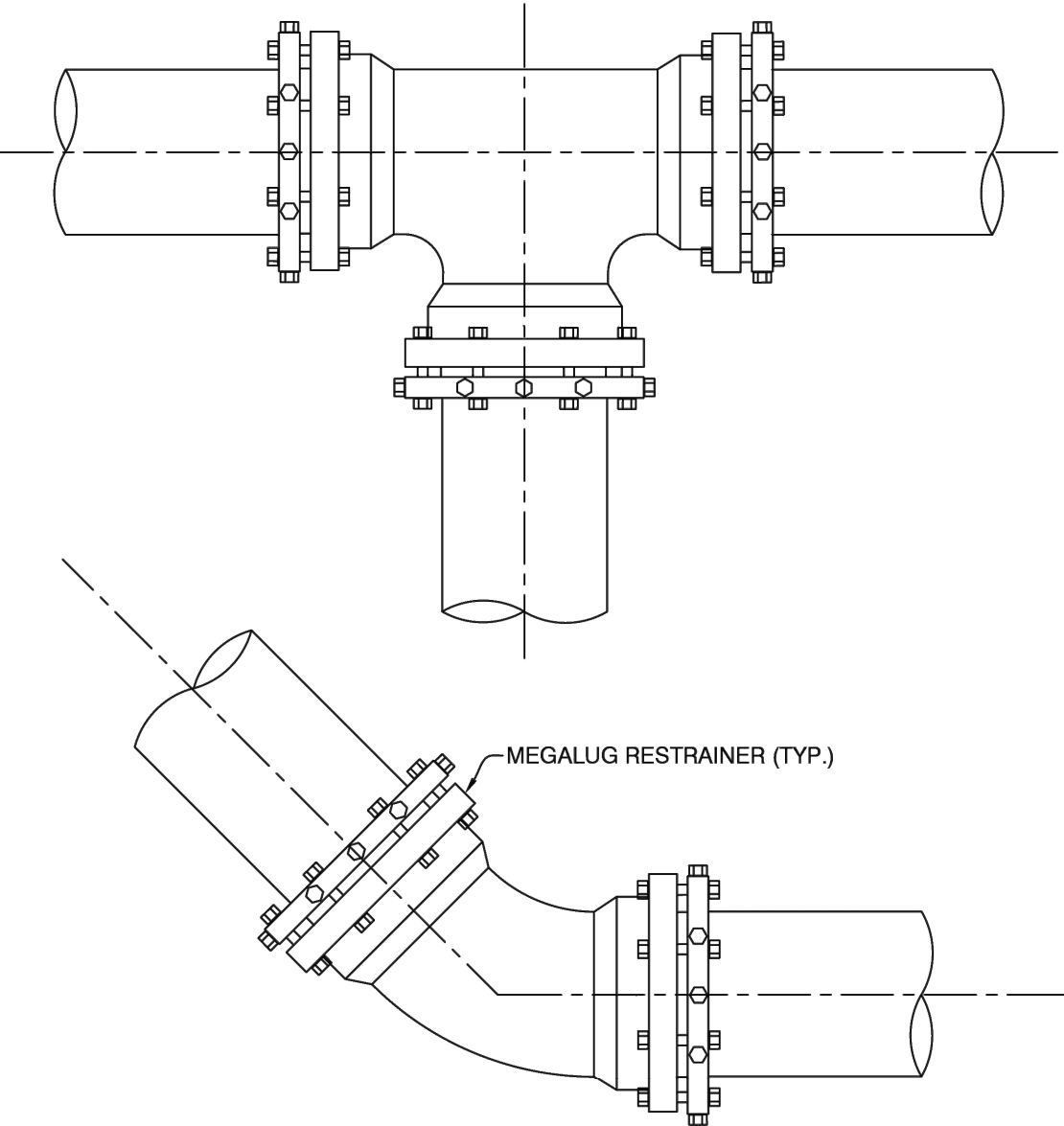
MINIMUM LENGTH (FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S)										
TYPE	PIPE SIZE									
	4"	6"	8"	10"	12"	16"	20"	24"	30"	36"
90° BEND	18	24	31	38	43	55	65	75	88	100
45° BEND	8	10	13	15	18	23	26	31	38	43
22-1/2° BEND	4	5	6	8	9	11	13	15	18	20
11-1/4° BEND	2	3	4	5	6	8	9	10	11	13
PLUG OR BRANCH 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:

- FITTINGS SHALL HAVE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED.
- INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN LENGTH SHOWN IN THE TABLE.
- WHERE TWO OR MORE FITTINGS ARE IN SERIES, SELECT FITTING RESTRAINT LENGTH THAT YIELDS THE LONGEST RESTRAINT DISTANCE.
- ALL INLINE VALVES SHALL BE RESTRAINED.
- WHERE INTERNAL RESTRAINED JOINTS ARE USED, THE ENTIRE BELL SHALL BE PAINTED RED.
- 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.



NOTES:

- 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.
- THE NUMBER OF JOINTS RESTRAINED EACH SIDE OF ANY FITTING OR VALVE SHALL BE IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATION.
- ALL BENDS & TEES SHALL HAVE AN EMS INSTALLED.

LOXAHATCHEE RIVER DISTRICT

N.T.S.
REVISION:
APRIL, 2012

MANHOLE FRAME AND COVER DETAIL

SD-13

LOXAHATCHEE RIVER DISTRICT

N.T.S.
REVISION:
APRIL, 2012

FORCE MAIN THRUST RESTRAINT CHART

SD-18

LOXAHATCHEE RIVER DISTRICT

N.T.S.
REVISION:
APRIL, 2012

FORCE MAIN THRUST RESTRAINT DETAIL

SD-19

100% SUBMITTAL

Kimley»Horn

1920 WEKIVA WAY SUITE 200, WEST PALM BEACH, FL 33411
PHONE: 561-845-0665 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM REGISTRY NO. 35106

KHA PROJECT
1407900002
DATE
APR. 2025
SCALE AS SHOWN
DESIGNED BY SS
DRAWN BY SS
CHECKED BY TCJ

A1A AND OCEAN PARKS
FM REPLACEMENT
PREPARED FOR
LOXAHATCHEE RIVER DISTRICT

JUPITER,

LICENSED PROFESSIONAL

THOMAS C. JENSEN

37290

FLORIDA

DATE: _____

LRD STANDARD UTILITY DETAILS

SHEET NUMBER

C-15

No.	REVISIONS	DATE	BY

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CALL 2 WORKING DAYS BEFORE YOU DIG

IT'S THE LAW! DIAL 811

Know what's below. Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

100% SUBMITTAL

Kimley»Horn

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KHA PROJECT	140790002
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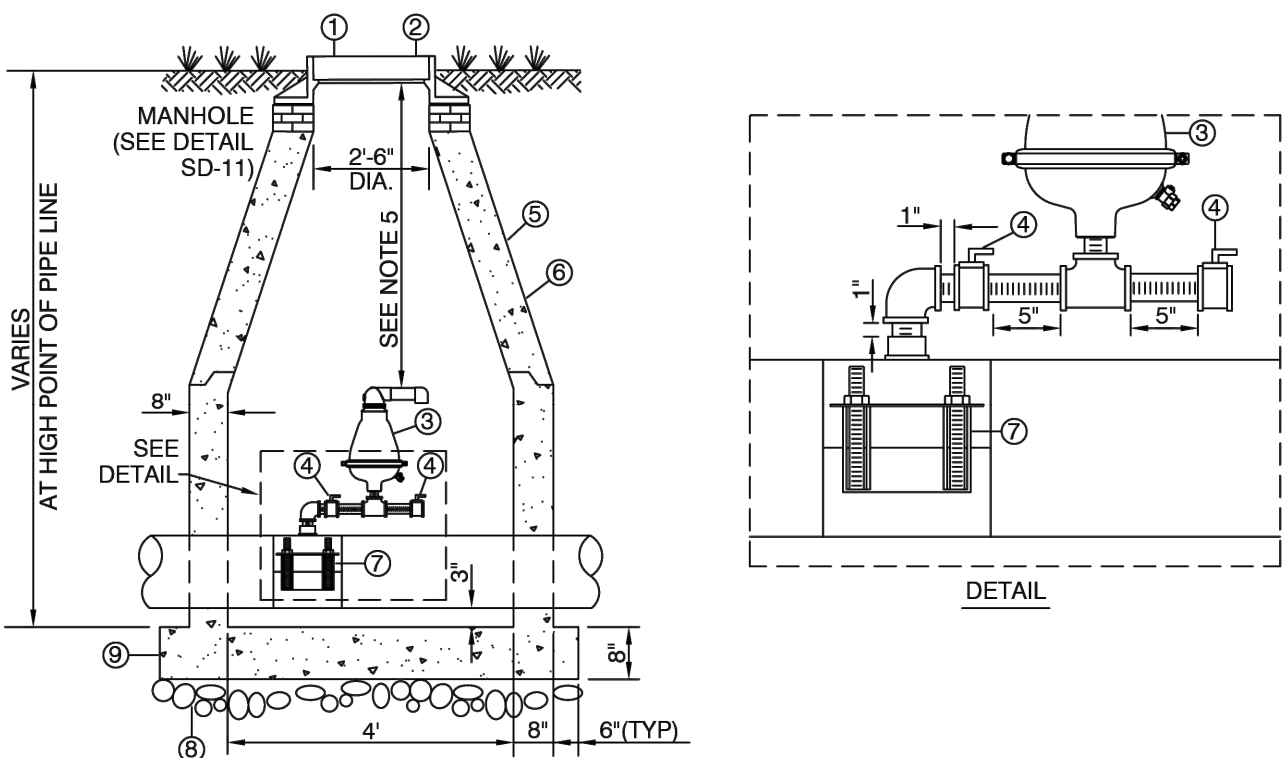
FLORIDA

LICENSED PROFESSIONAL

THOMAS C. JENSEN

37290

DATE: _____



- 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, McMASTER - CARR, MODEL #46495K26 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 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".

LOXAHATCHEE RIVER DISTRICT

N.T.S.
REVISION:
SEP, 2022

AUTOMATIC AIR RELEASE VALVE DETAIL

SD-24

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-MANHOLE, 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 SHOWNED. THE AS BUILT 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 100' 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.

LOXAHATCHEE RIVER DISTRICT

N.T.S.
REVISION:
AUG, 2022

RECORD DRAWING SUBMITTAL GUIDE

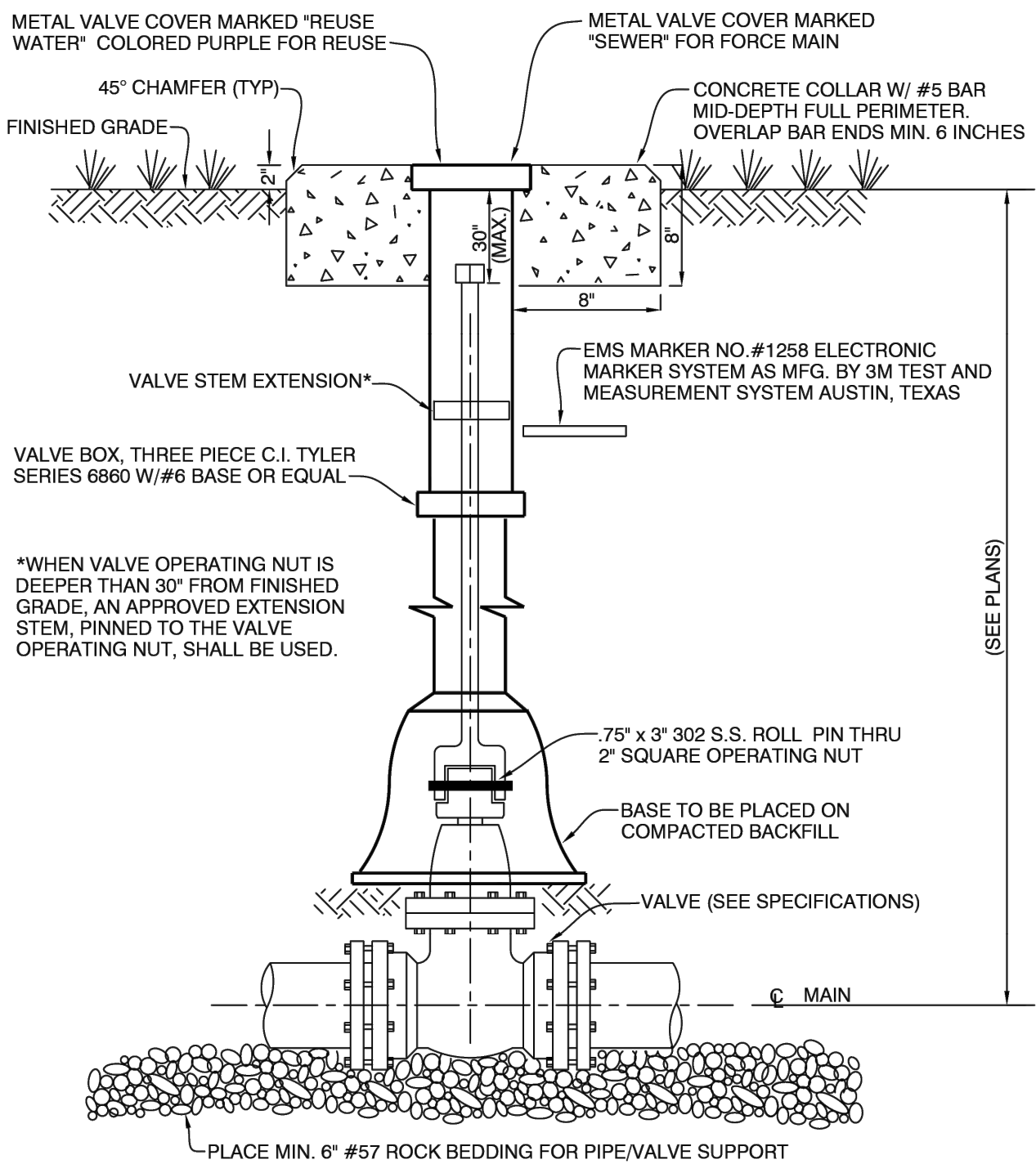
SD-29

LOXAHATCHEE RIVER DISTRICT

N.T.S.
REVISION:
APRIL, 2012

STANDARD WATER AND SEWER
SEPARATION STATEMENT

SD-30



FORCE MAIN OR REUSE WATER SYSTEM

LOXAHATCHEE RIVER DISTRICT

N.T.S.
REVISION:
JULY, 2019

BURIED VALVE DETAIL

SD-27

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

SHEET NUMBER

C-16

LRD STANDARD UTILITY DETAILS