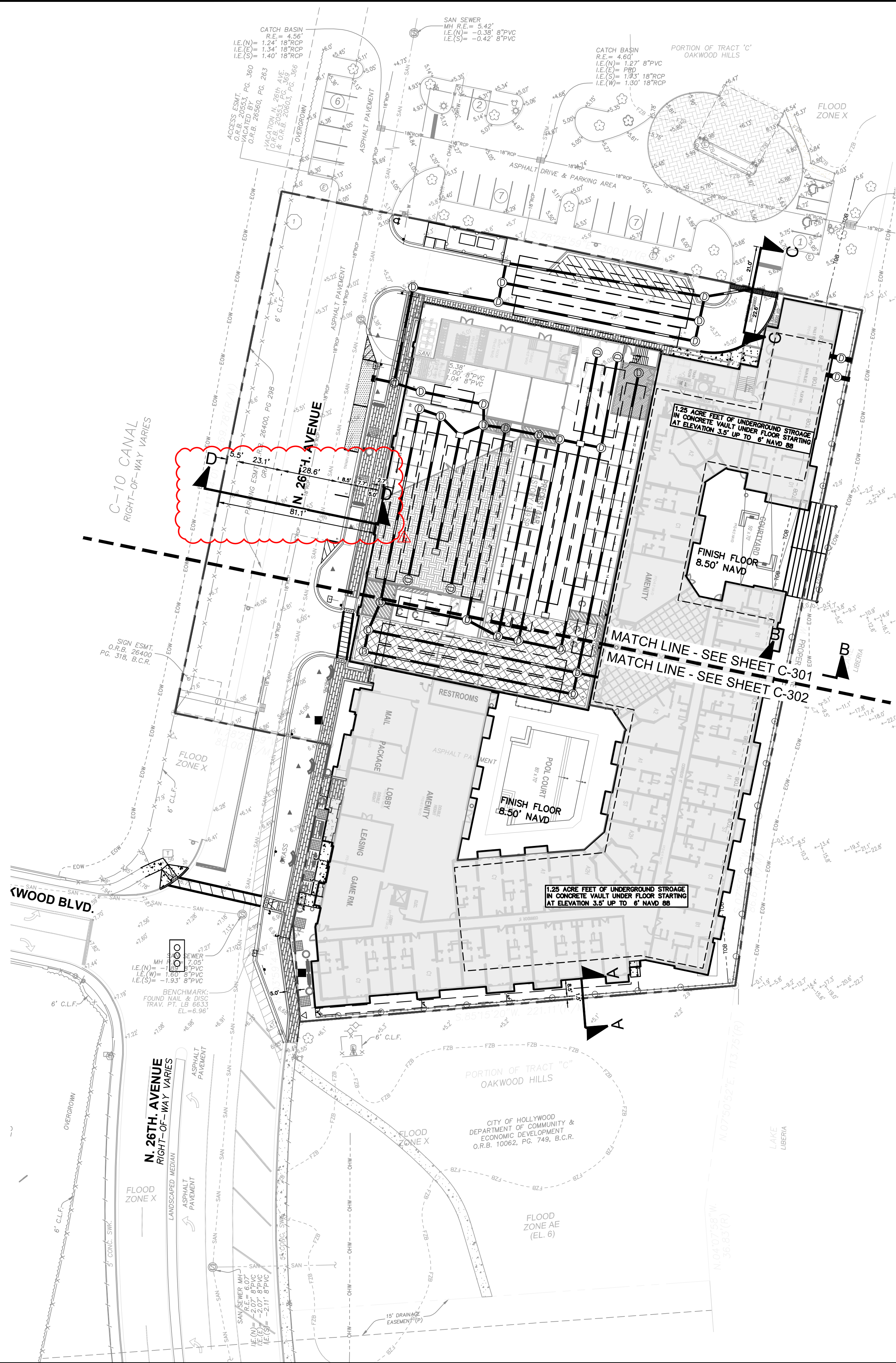
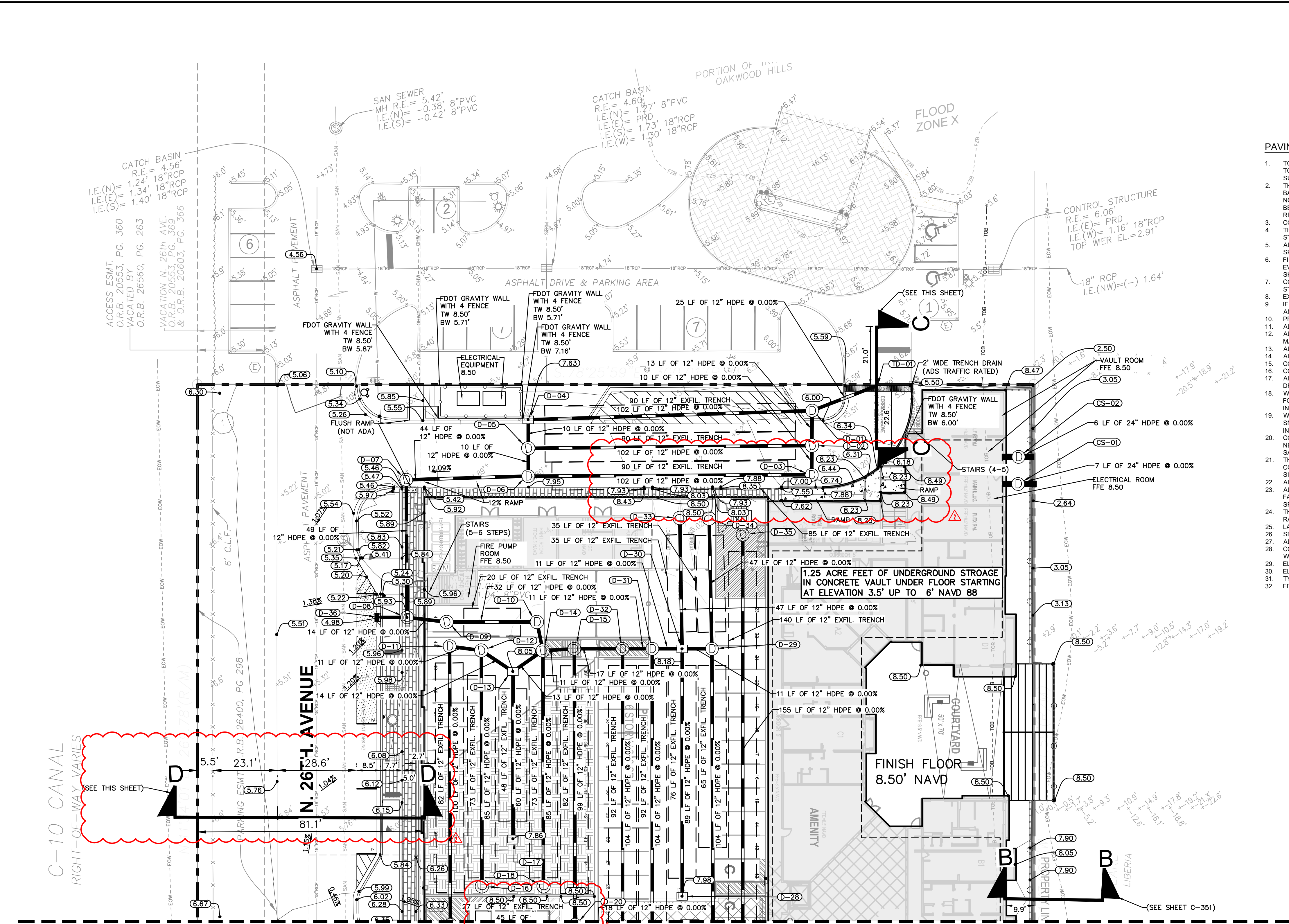
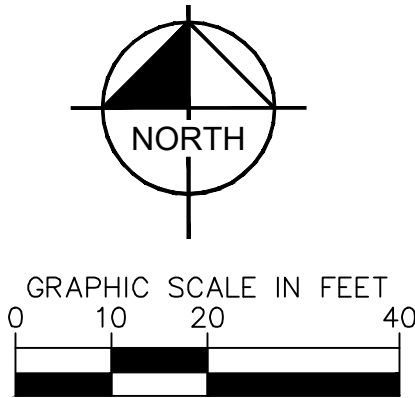


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Plotted By: Lyles, Danny Sheet Set: OAKWOOD EAST MULTI FAMILY PROJECT Layout: C-301 August 25, 2025 02:05:23pm K:\VRB\DEVA\147507129 - Oakwood East Towers CAD\PlanSheets\C-300 PAVING GRADING AND DRAINAGE PLAN.dwg
This document, together with the concepts and designs presented herein, as an instrument of service, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and disposition by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



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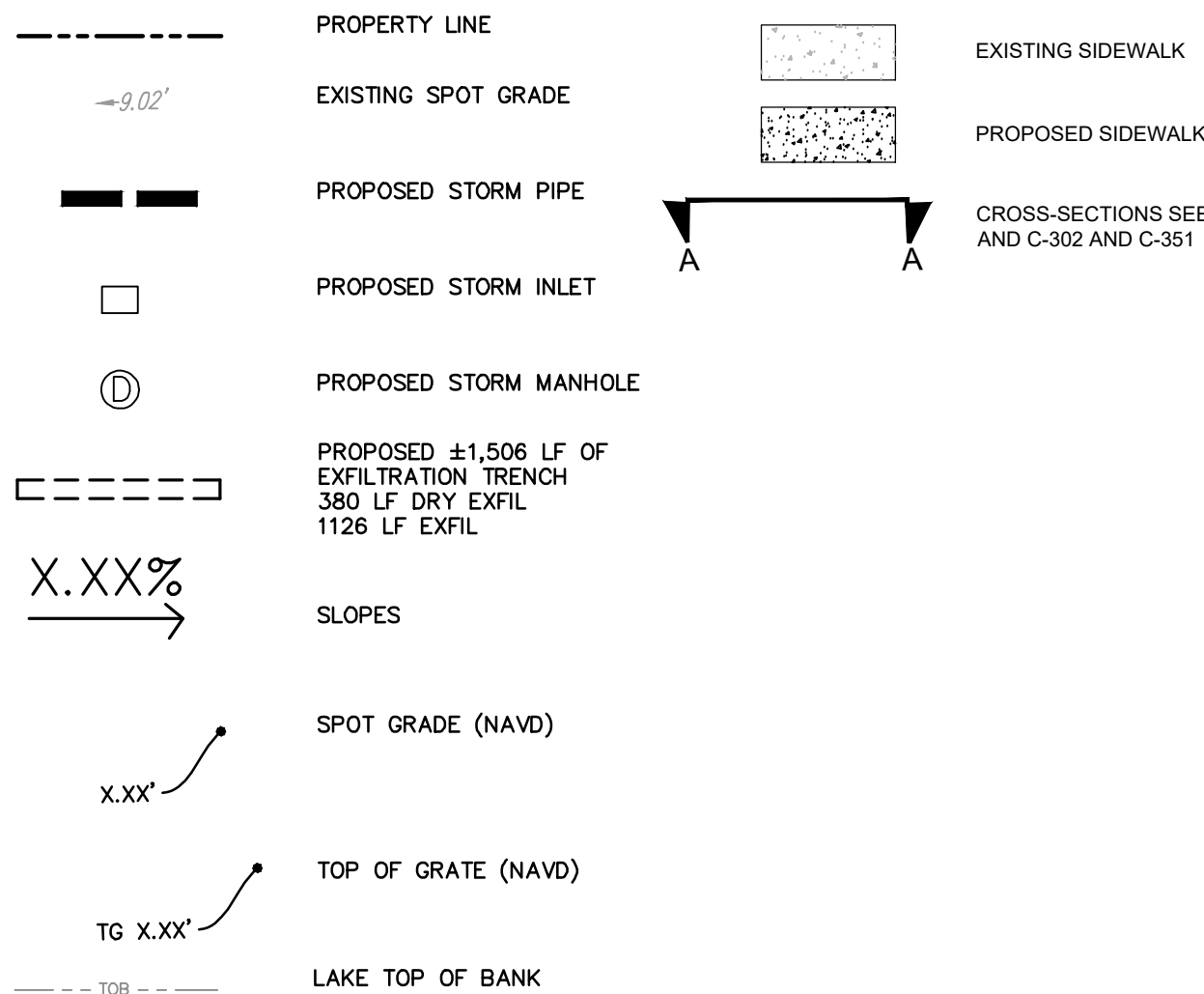
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2. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF ALL EXISTING UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
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15. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
16. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM ALL NATURAL AND PAVED AREAS.
17. ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE DRAWINGS.
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20. CONTRACTOR SHALL EXCAVATE EXISTING PAVEMENT/SIDEWALK AREAS THAT ARE TO BE LANDSCAPED A MINIMUM OF 30" OR AS DEEP AS NECESSARY TO ENSURE ALL STONE BASE / PAVEMENT MATERIAL IS REMOVED (WHICHEVER IS GREATER) AND BACKFILL WITH CLEAN / DRAINING SAND TO WITHIN 4" OF TOP OF CURB TO ENSURE PROPER SOIL FOR PLANT MATERIALS.
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28. CONTRACTOR TO FIELD VERIFY LOCATION OF UNDERGROUND UTILITIES AND IMMEDIATELY NOTIFY ENGINEER OF RECORD OF ANY CONFLICTS WITH SIGNAGE FOUNDATIONS.
29. ELEVATIONS SHOWN AT CURB LINE ARE EDGE OF PAVEMENT UNLESS SPECIFIED OTHERWISE.
30. ELEVATIONS ARE BASED ON NAVD8 DATUM DETERMINED BY GPS OBSERVATIONS, PROVIDED BY SURVEYOR.
31. TYPE C INLETS TO BE MODIFIED FOR H-20 TRAFFIC RATING.
32. FDOT DITCH BOTTOM INLETS TO BE MODIFIED FOR H20 TRAFFIC RATING.

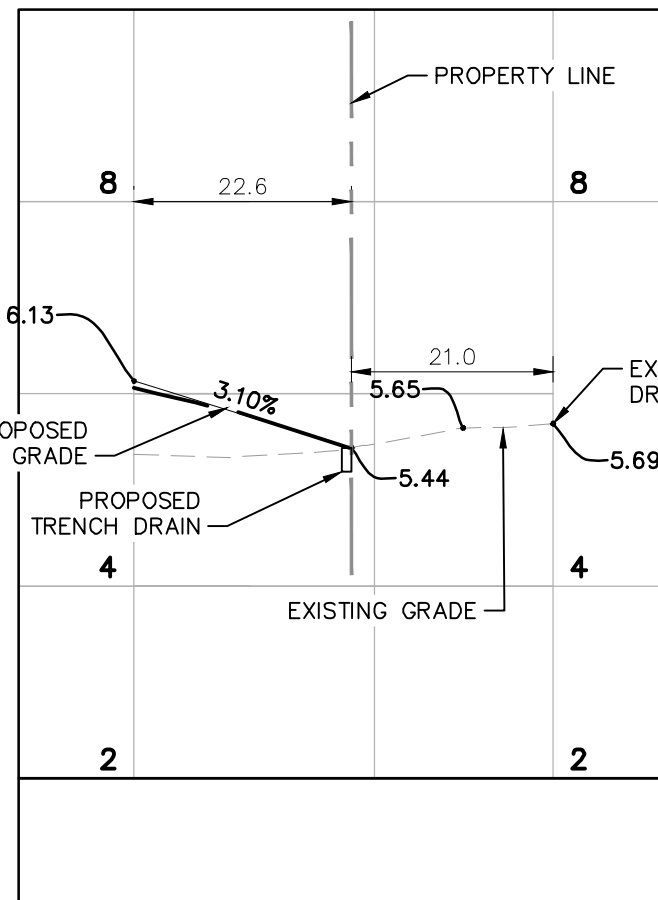
DRAINAGE INFORMATION:
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THE EXACT SYSTEM DRAINAGE UNDERNEATH THE BUILDING WILL BE DESIGNED AS PART OF THE STRUCTURAL FOUNDATION SYSTEM BUT WILL HAVE A MINIMUM OF 1.25 ACRE-FEET OF STORAGE BASED ON THE CALCULATIONS.
HISTORICAL DRAINAGE PATTERNS ARE BEING PRESERVED ALONG N. 26TH AVE. ANY ADDITIONAL RUNOFF FROM N. 26 AVE WILL BE COLLECTED AND TREATED THROUGH A CURB INLET IN THE GUTTER LINE AT THE NORTH WEST CORNER OF THE BUILDING.

MATERIAL NOTES:
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CONCRETE DRIVEWAYS ON PRIVATE PROPERTY WILL BE 5-INCH THICK, 3,000 PSI WITH FIBER MESH WHILE THE PORTION OF THE DRIVEWAY LOCATED WITHIN THE ROW (OUTSIDE OF THE PROPERTY LINES) WILL BE A MINIMUM OF 6 INCHES THICK, 3,000 PSI, WITH NO METAL OR FIBER MESH AND WILL BE CONSTRUCTED FLUSH WITH THE EXISTING ROADWAY AND SIDEWALK. THE ENTIRE DRIVEWAY WILL MAINTAIN CONTROL JOINTS LOCATED EVERY 250 SQ FT AND THE EXISTING ASPHALT IN THE CITY ROW WILL BE SAWCUT FOR A CLEAN STRAIGHT EDGE.
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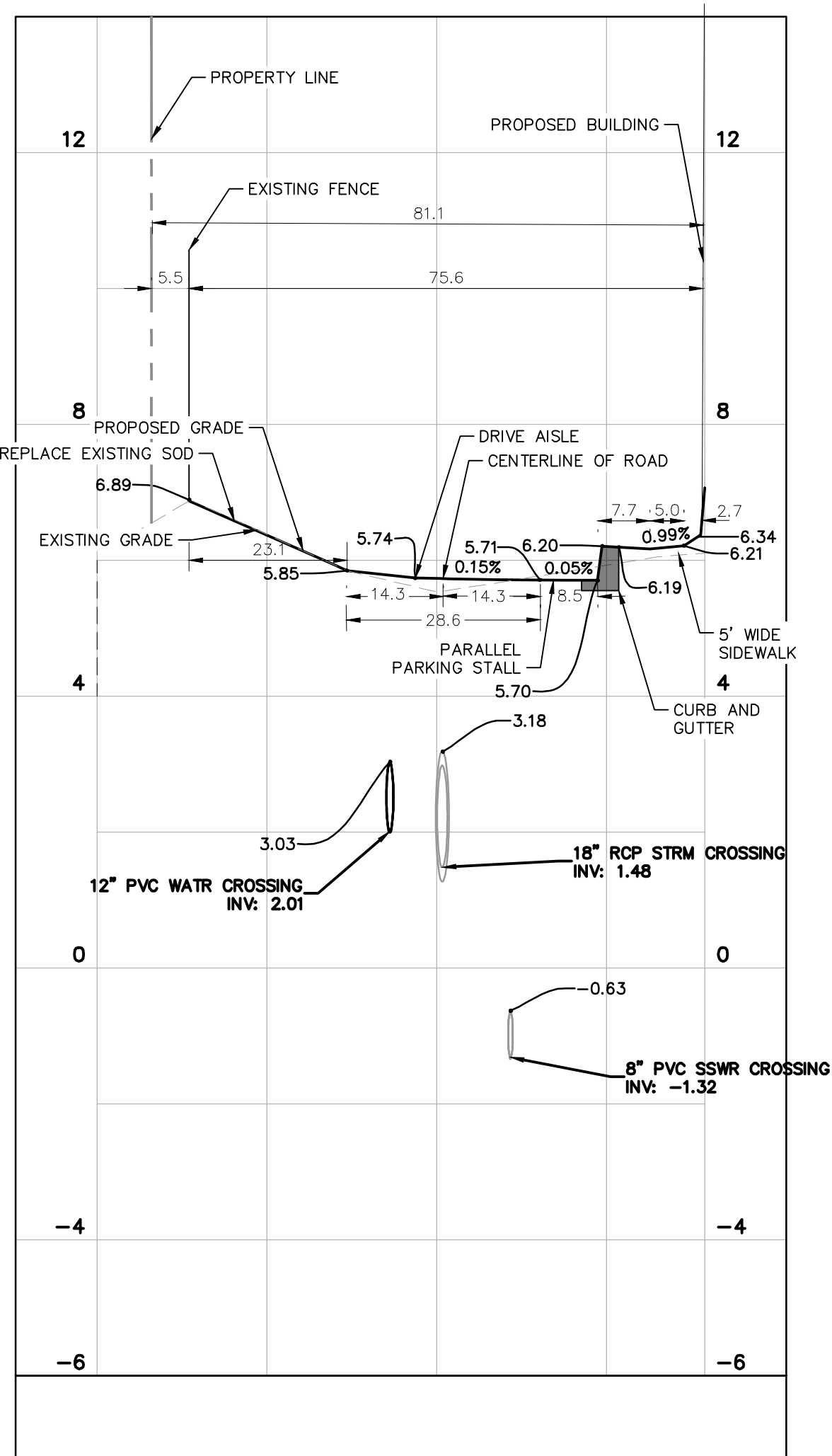
LEGEND



SEE SHEET C-350 FOR SECTION B-B



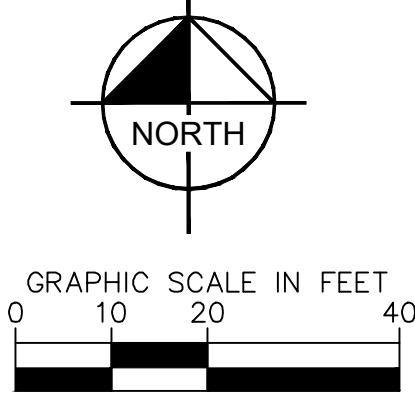
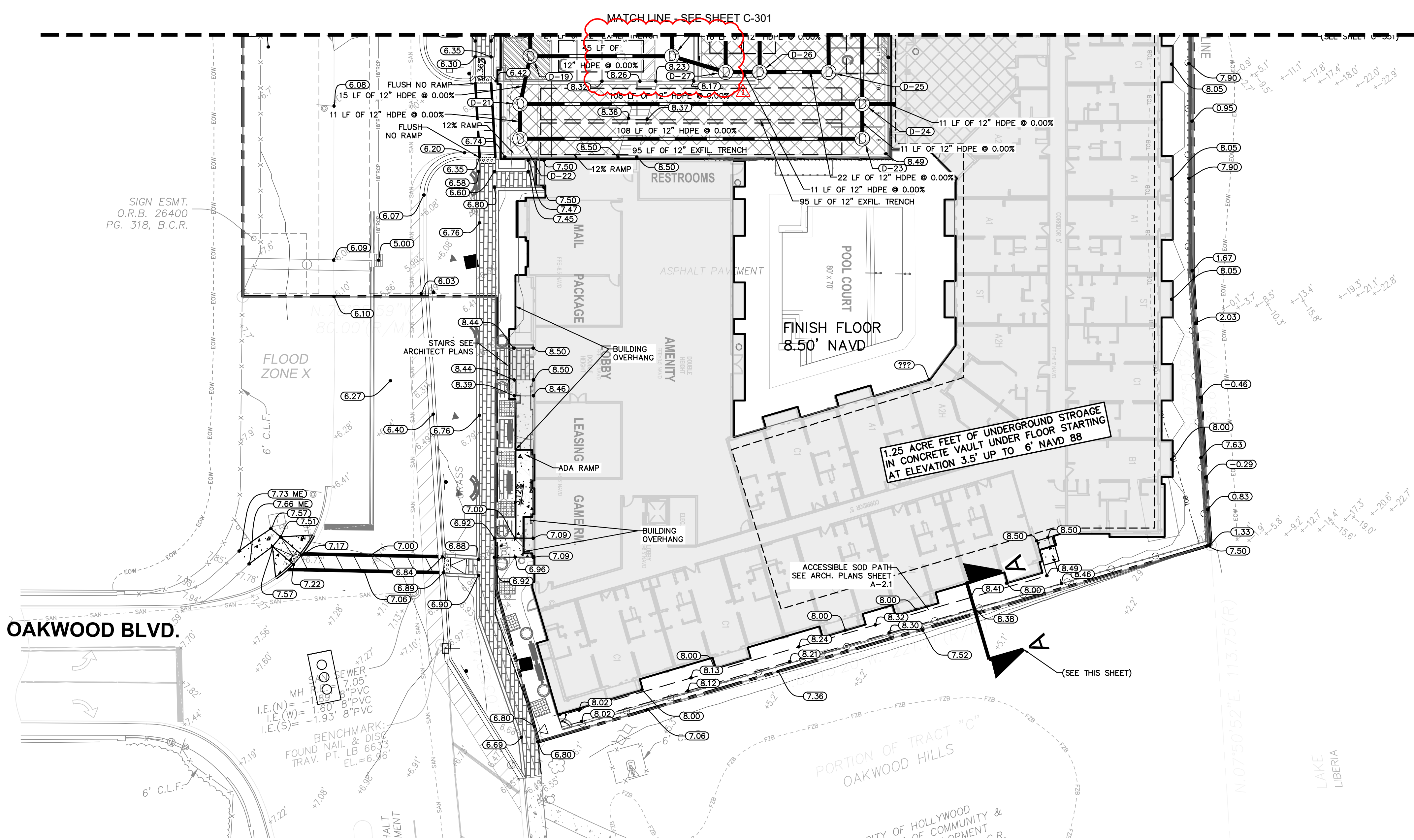
SECTION C-C
1" = 20' HORIZONTAL
1" = 2' VERTICAL



SECTION D-D
1" = 20' HORIZONTAL
1" = 2' VERTICAL

KHA PROJECT 147507129		DATE 8/25/2025		SCALE AS SHOWN		DESIGNED BY SHEB		DRAWN BY SHEB		CHECKED BY GOW	
OAKWOOD EAST MULTI FAMILY PROJECT		CITY OF HOLLYWOOD		FLORIDA		SHEET NUMBER C-301		PAVING GRADING AND DRAINAGE ENLARGEMENT		KIMLEY-HORN	
8/22/2023		REVISIONS		CITY OF HOLLYWOOD PLANNING		8/22/2023		SHEB		BY	
No.		No.		No.		No.		No.		DATE	
No.		No.		No.		No.		No.		DATE	

Plotted By: Tyros, Danny Sheet Set: OAKWOOD EAST MULTI FAMILY PROJECT Layout: C-302 August 25, 2025 03:50:55pm K:\VRB-LDEV\147507129 - Oakwood East Towers CAD\PlanSheets\C-300 PAVING GRADING AND DRAINAGE PLAN.dwg
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DRAINAGE INFORMATION:

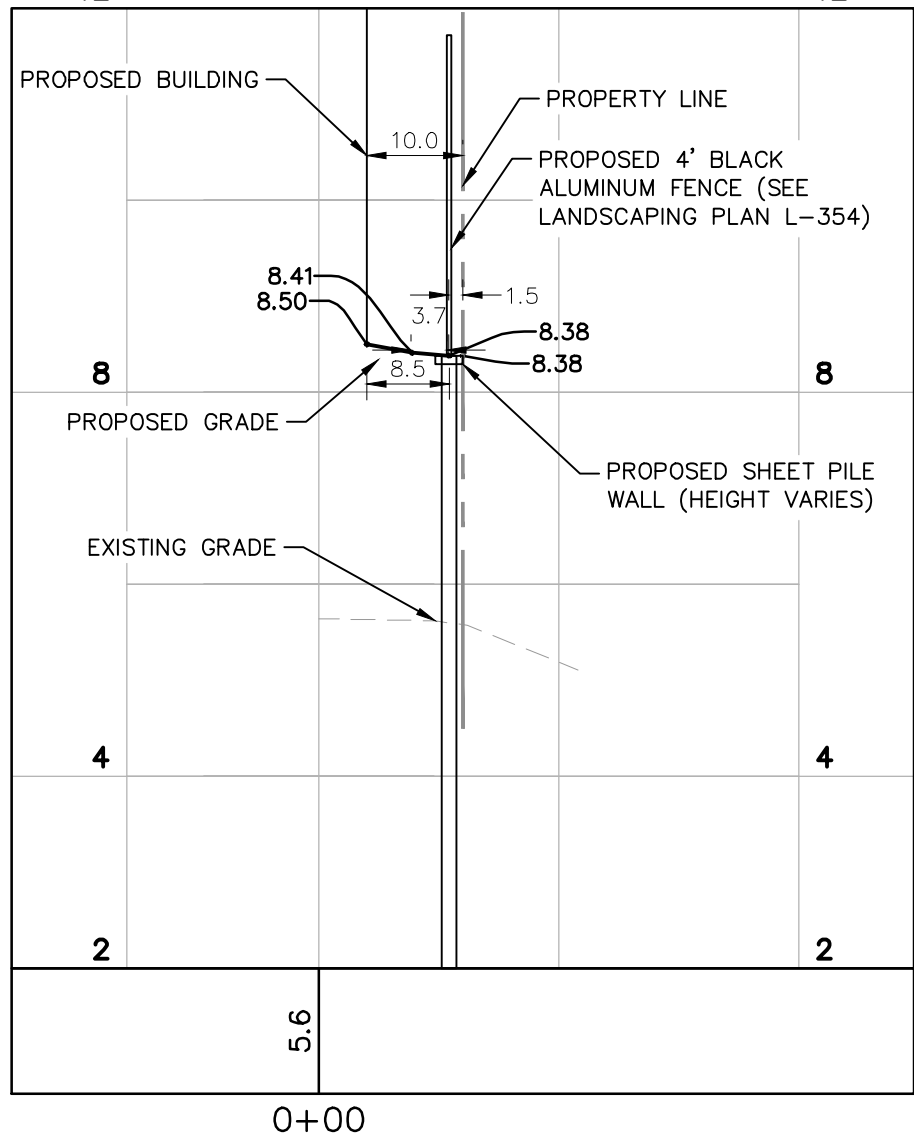
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LEGEND

- | | | | |
|--|--|--|---|
| | PROPERTY LINE | | EXISTING SIDEWALK |
| | EXISTING SPOT GRADE | | PROPOSED SIDEWALK |
| | PROPOSED STORM PIPE | | CROSS-SECTIONS SEE SHEETS C-301 AND C-302 AND C-351 |
| | PROPOSED STORM INLET | | |
| | PROPOSED STORM MANHOLE | | |
| | PROPOSED ±1,506 LF OF EXFILTRATION TRENCH 380 LF DRY EXFIL 1126 LF EXFIL | | |
| | SLOPES | | |
| | SPOT GRADE (NAVD) | | |
| | TOP OF GRATE (NAVD) | | |
| | LAKE TOP OF BANK | | |

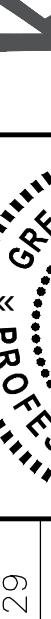


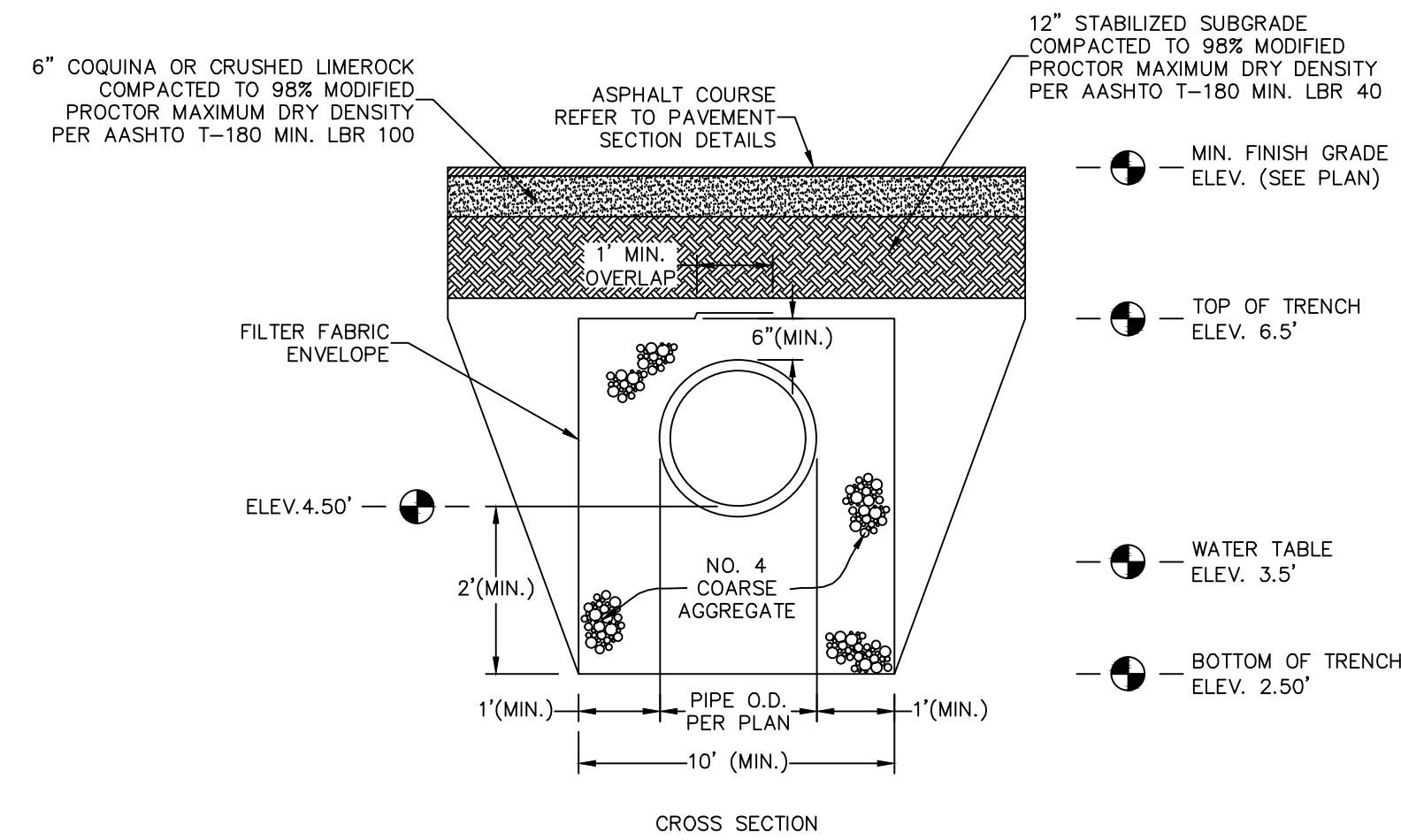
SECTION A-A
1" = 20' HORIZONTAL
1" = 2' VERTICAL

KHA PROJECT 147507129		DATE 8/25/2025		SCALE AS SHOWN		DESIGNED BY SHB		DRAWN BY SHB		CHECKED BY GOW	
OAKWOOD EAST MULTI FAMILY PROJECT		PAVING GRADING AND DRAINAGE ENLARGEMENT		FLORIDA		CITY OF HOLLYWOOD		SHEET NUMBER C-302		THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY GREGORY D. WILFONG, P.E. ON THE DATE ADJACENT TO THE SEAL. SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.	
Kimley»Horn		© 2024 KIMLEY-HORN AND ASSOCIATES, INC. 445 24TH STREET, SUITE 200, VERO BEACH, FL 32960 PHONE: 772-794-4100 WWW.KIMLEY-HORN.COM		REGISTRY NO. 35106		REVISIONS		9/22/2025 SHB		BY DATE	

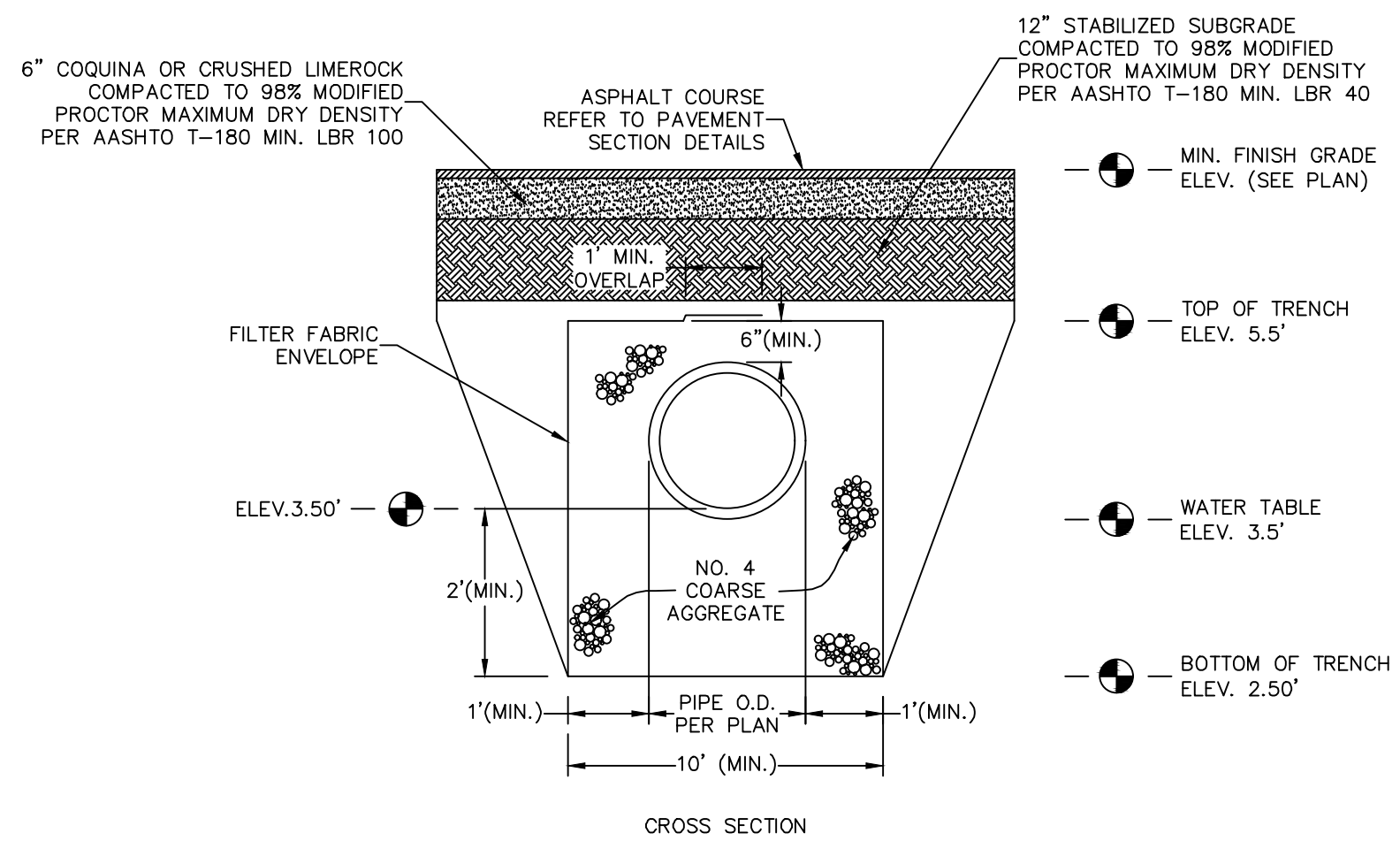
STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT
CS-01	CS-01 RIM: 8.33 INV IN: 3.50 INV OUT: 1.00	FROM 48, 24" HDPE INV IN: 3.50 @ 0.00%	TO 50, 24" HDPE INV OUT: 1.00 @ 0.00%
CS-02	CS-02 RIM: 9.11 INV IN: 3.50 INV OUT: 1.00	FROM 60, 24" HDPE INV IN: 3.50 @ 0.00%	TO 62, 24" HDPE INV OUT: 1.00 @ 0.00%
D-01	MANHOLE RIM: 6.60 INV IN: 3.50 INV IN: 3.50 INV OUT: 3.50	FROM D-04, 12" HDPE INV IN: 3.50 @ 0.00% FROM TD-01, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-02, 12" HDPE INV OUT: 3.50 @ 0.00%
D-02	MH RIM: 6.48 INV IN: 3.50 INV OUT: 3.50 INV OUT: 3.50	FROM D-01, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-03, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-05, 12" HDPE INV OUT: 3.50 @ 0.00%
D-03	MANHOLE RIM: 6.87 INV IN: 3.50 INV OUT: 3.50	FROM D-02, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-06, 12" HDPE INV OUT: 3.50 @ 0.00%
D-04	CB RIM: 7.63 INV IN: 3.50 INV OUT: 3.50	FROM D-05, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-01, 12" HDPE INV OUT: 3.50 @ 0.00%
D-05	MH RIM: 8.03 INV IN: 3.50 INV IN: 3.50 INV OUT: 3.50	FROM D-06, 12" HDPE INV IN: 3.50 @ 0.00% FROM D-02, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-04, 12" HDPE INV OUT: 3.50 @ 0.00%
D-06	MANHOLE RIM: 8.33 INV IN: 3.50 INV IN: 3.50 INV OUT: 3.50	FROM D-03, 12" HDPE INV IN: 3.50 @ 0.00% FROM D-07, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-05, 12" HDPE INV OUT: 3.50 @ 0.00%
D-07	MH RIM: 5.74 INV IN: 3.50 INV OUT: 3.50	FROM D-08, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-06, 12" HDPE INV OUT: 3.50 @ 0.00%
D-08	MH RIM: 5.93 INV IN: 3.50 INV OUT: 3.50 INV OUT: 3.50	FROM D-09, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-07, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-36, 12" HDPE INV OUT: 3.50 @ 0.00%
D-09	MH RIM: 8.40 INV OUT: 3.50 INV OUT: 3.50		TO D-10, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-08, 12" HDPE INV OUT: 3.50 @ 0.00%
D-10	MH RIM: 8.29 INV IN: 3.50 INV OUT: 3.50	FROM D-09, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-14, 12" HDPE INV OUT: 3.50 @ 0.00%
D-11	MANHOLE RIM: 8.38 INV IN: 3.50 INV OUT: 3.50	FROM D-19, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-12, 12" HDPE INV OUT: 3.50 @ 0.00%
D-12	MH RIM: 8.21 INV IN: 3.50 INV OUT: 3.50 INV OUT: 3.50	FROM D-11, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-13, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-16, 12" HDPE INV OUT: 3.50 @ 0.00%
D-13	CATCH BASIN RIM: 8.05 INV IN: 3.50 INV OUT: 3.50 INV OUT: 3.50	FROM D-12, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-17, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-14, 12" HDPE INV OUT: 3.50 @ 0.00%
D-14	MH RIM: 8.20 INV IN: 3.50 INV IN: 3.50 INV OUT: 3.50 INV OUT: 3.50	FROM D-13, 12" HDPE INV IN: 3.50 @ 0.00% FROM D-10, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-15, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-18, 12" HDPE INV OUT: 3.50 @ 0.00%
D-15	MANHOLE RIM: 8.28 INV IN: 3.50 INV OUT: 3.50 INV OUT: 3.50	FROM D-14, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-20, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-32, 12" HDPE INV OUT: 3.50 @ 0.00%
D-16	MH RIM: 8.41 INV IN: 3.50	FROM D-12, 12" HDPE INV IN: 3.50 @ 0.00%	
D-17	CATCH BASIN RIM: 7.86 INV IN: 3.50	FROM D-13, 12" HDPE INV IN: 3.50 @ 0.00%	
D-18	MH RIM: 8.40 INV IN: 3.50	FROM D-14, 12" HDPE INV IN: 3.50 @ 0.00%	

STRUCTURE TABLE			
STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT
D-19	MANHOLE RIM: 7.42 INV OUT: 3.50 INV OUT: 3.50 INV OUT: 3.50		TO D-11, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-20, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-21, 12" HDPE INV OUT: 3.50 @ 0.00%
D-20	MANHOLE RIM: 8.23 INV IN: 3.50 INV IN: 3.50 INV OUT: 3.50	FROM D-15, 12" HDPE INV IN: 3.50 @ 0.00% FROM D-19, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-27, 12" HDPE INV OUT: 3.50 @ 0.00%
D-21	MANHOLE RIM: 7.37 INV IN: 3.50 INV IN: 3.50 INV OUT: 3.50	FROM D-22, 12" HDPE INV IN: 3.50 @ 0.00% FROM D-19, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-24, 12" HDPE INV OUT: 3.50 @ 0.00%
D-22	MANHOLE RIM: 7.35 INV OUT: 3.50 INV OUT: 3.50		TO D-23, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-21, 12" HDPE INV OUT: 3.50 @ 0.00%
D-23	MANHOLE RIM: 8.43 INV IN: 3.50 INV IN: 3.50	FROM D-22, 12" HDPE INV IN: 3.50 @ 0.00% FROM D-24, 12" HDPE INV IN: 3.50 @ 0.00%	
D-24	MANHOLE RIM: 8.33 INV IN: 3.50 INV IN: 3.50 INV OUT: 3.50 INV OUT: 3.50	FROM D-21, 12" HDPE INV IN: 3.50 @ 0.00% FROM D-35, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-23, 12" HDPE INV OUT: 3.50 @ 0.00% TO 47, 12" HDPE INV OUT: 3.50 @ 0.00%
D-25	MH RIM: 8.17 INV IN: 3.50 INV OUT: 3.50	FROM D-29, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-26, 12" HDPE INV OUT: 3.50 @ 0.00%
D-26	MANHOLE RIM: 8.21 INV IN: 3.50 INV IN: 3.50 INV IN: 3.50	FROM D-31, 12" HDPE INV IN: 3.50 @ 0.00% FROM D-27, 12" HDPE INV IN: 3.50 @ 0.00% FROM D-25, 12" HDPE INV IN: 3.50 @ 0.00%	
D-27	MANHOLE RIM: 8.31 INV IN: 3.50 INV OUT: 3.50 INV OUT: 3.50	FROM D-20, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-32, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-26, 12" HDPE INV OUT: 3.50 @ 0.00%
D-28	CATCH BASIN RIM: 7.98 INV IN: 3.50	FROM D-30, 12" HDPE INV IN: 3.50 @ 0.00%	
D-29	MH RIM: 8.28 INV IN: 3.50 INV OUT: 3.50 INV OUT: 3.50	FROM D-30, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-25, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-34, 12" HDPE INV OUT: 3.50 @ 0.00%
D-30	CATCH BASIN RIM: 8.18 INV IN: 3.50 INV OUT: 3.50 INV OUT: 3.50 INV OUT: 3.50	FROM D-31, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-28, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-29, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-33, 12" HDPE INV OUT: 3.50 @ 0.00%
D-31	MANHOLE RIM: 8.25 INV IN: 3.50 INV OUT: 3.50 INV OUT: 3.50	FROM D-32, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-26, 12" HDPE INV OUT: 3.50 @ 0.00% TO D-30, 12" HDPE INV OUT: 3.50 @ 0.00%
D-32	MANHOLE RIM: 8.29 INV IN: 3.50 INV IN: 3.50 INV OUT: 3.50	FROM D-27, 12" HDPE INV IN: 3.50 @ 0.00% FROM D-15, 12" HDPE INV IN: 3.50 @ 0.00%	TO D-31, 12" HDPE INV OUT: 3.50 @ 0.00%
D-33	MH RIM: 8.22 INV IN: 3.50	FROM D-30, 12" HDPE INV IN: 3.50 @ 0.00%	
D-34	MH RIM: 8.12 INV IN: 3.50	FROM D-29, 12" HDPE INV IN: 3.50 @ 0.00%	
D-35	MH RIM: 8.33 INV OUT: 3.50		TO D-24, 12" HDPE INV OUT: 3.50 @ 0.00%
D-36	CURB INLET RIM: 6.05 INV IN: 3.50	FROM D-08, 12" HDPE INV IN: 3.50 @ 0.00%	
TD-01	TRENCH DRAIN RIM: 4.60 INV OUT: 3.50		TO D-01, 12" HDPE INV OUT: 3.50 @ 0.00%

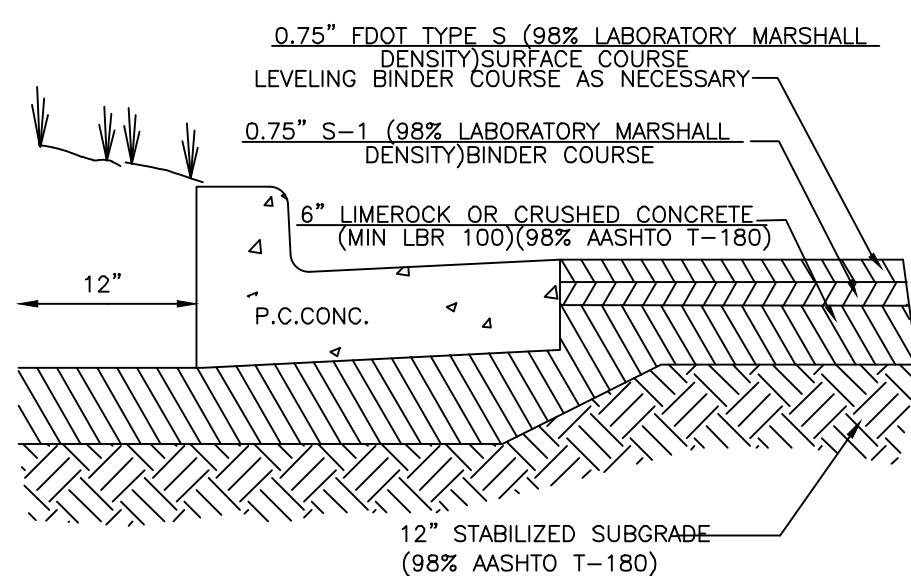
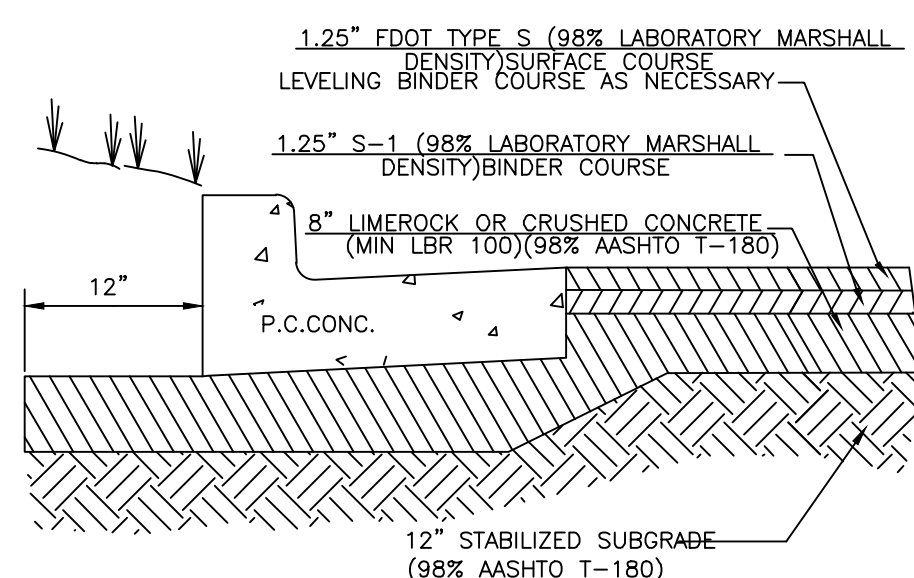
OAKWOOD EAST MULTI FAMILY PROJECT		CITY OF HOLLYWOOD		SHEET NUMBER C-350	
DRAINAGE STRUCTURE TABLE		KHA PROJECT 147507129 DATE 8/25/2025 SCALE AS SHOWN DESIGNED BY SHB DRAWN BY SHB CHECKED BY GOW		8/25/2025 	
Kimley»»Horn © 2024 KIMLEY-HORN AND ASSOCIATES, INC. 445 24TH STREET, SUITE 200, VERO BEACH, FL 32960 PHONE: 772-794-4100 WWW.KIMLEY-HORN.COM		REGISTRY NO. 35106 No. _____ REVISIONS _____ DATE _____ BY _____		8/22/2025 SHB CITY OF HOLLYWOOD PLANNING REVISIONS	



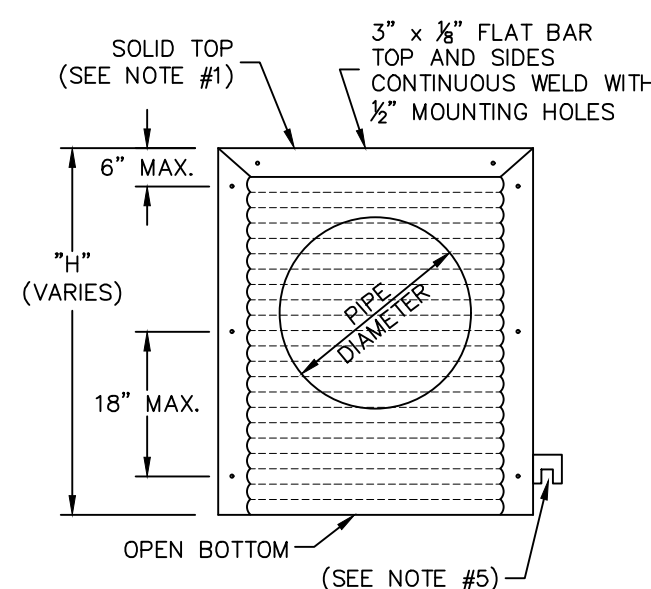
DRY EXFILTRATION TRENCH
N.T.S



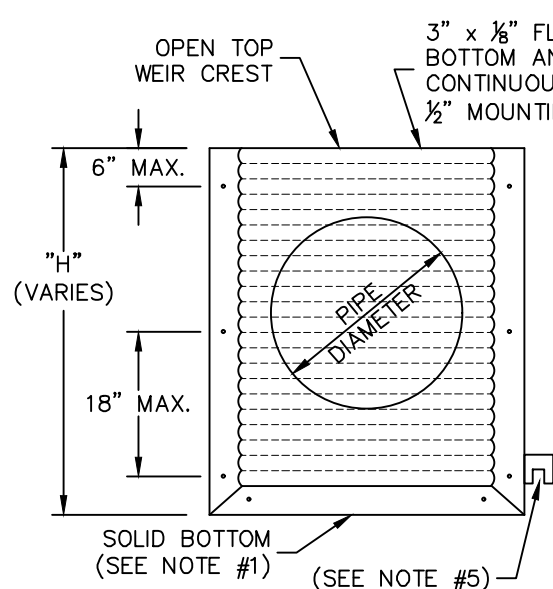
WET EXFILTRATION TRENCH
N.T.S

STANDARD DUTY
ASPHALT PAVING

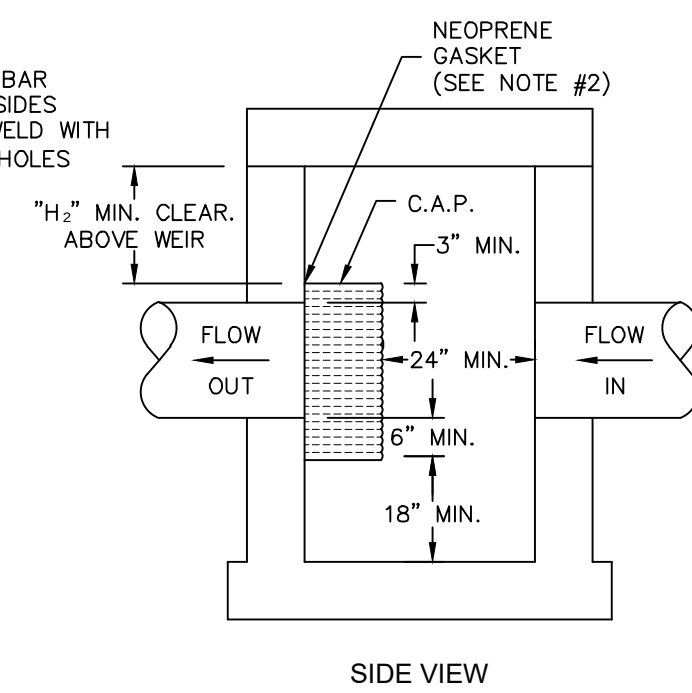
HEAVY DUTY
ASPHALT PAVING



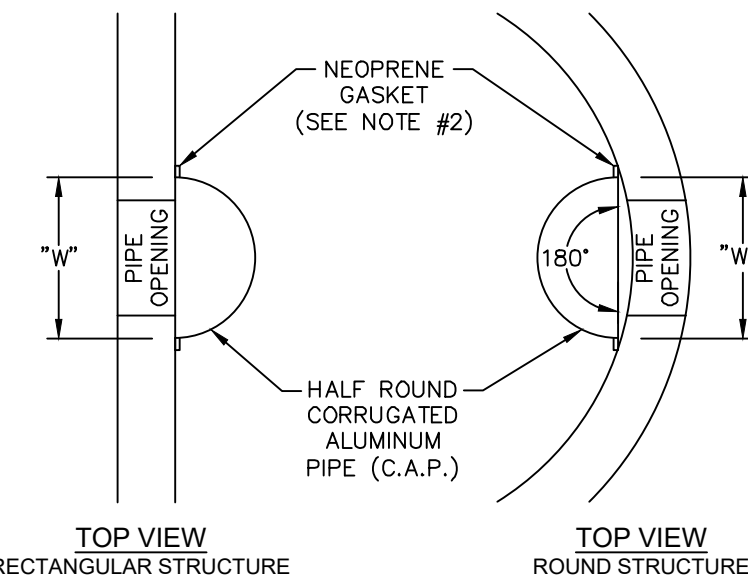
FRONT VIEW
P.R.B. DETAIL



FRONT VIEW
WEIR DETAIL



SIDE VIEW



RECTANGULAR STRUCTURE

ROUND STRUCTURE

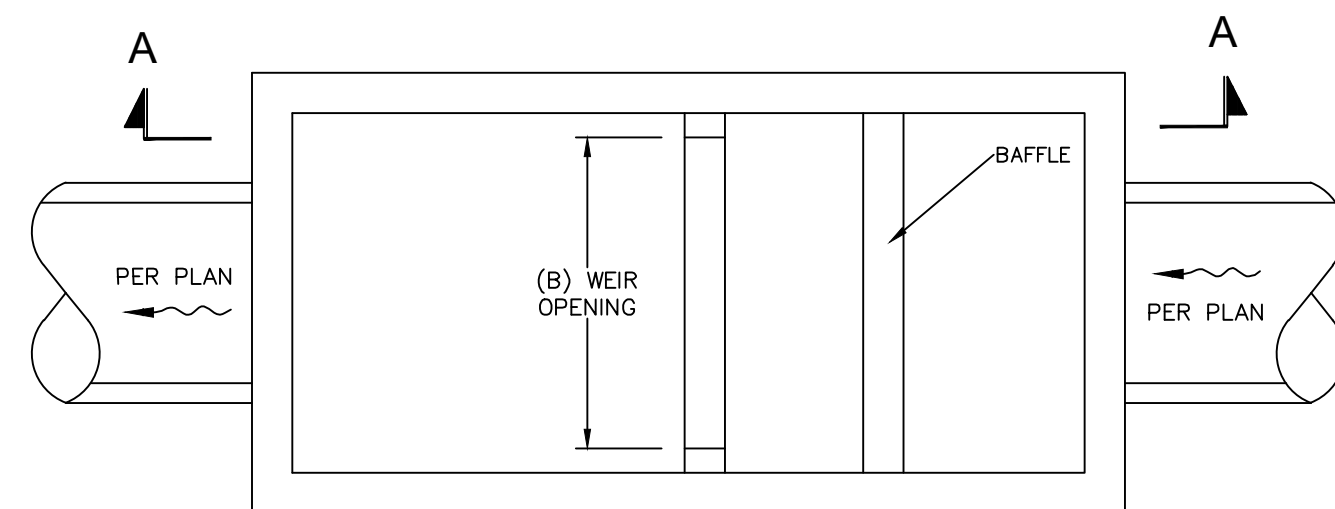
PIPE DIAM.	W (IN)	W ₂ (IN)	T (GAUGE)	H ₂ (IN)
15"	21"	21"	16	6
18"	24"	24"	16	7
21"	30"	30"	16	8
24"	30"	36"	16	10
30"	36"	42"	14	13
36"	42"	48"	14	16
42"	48"	54"	14	20
48"	54"	60"	14	23
54"	60"	66"	14	26

"W" RECTANGULAR STRUCTURE
 "W₂" ROUND STRUCTURE

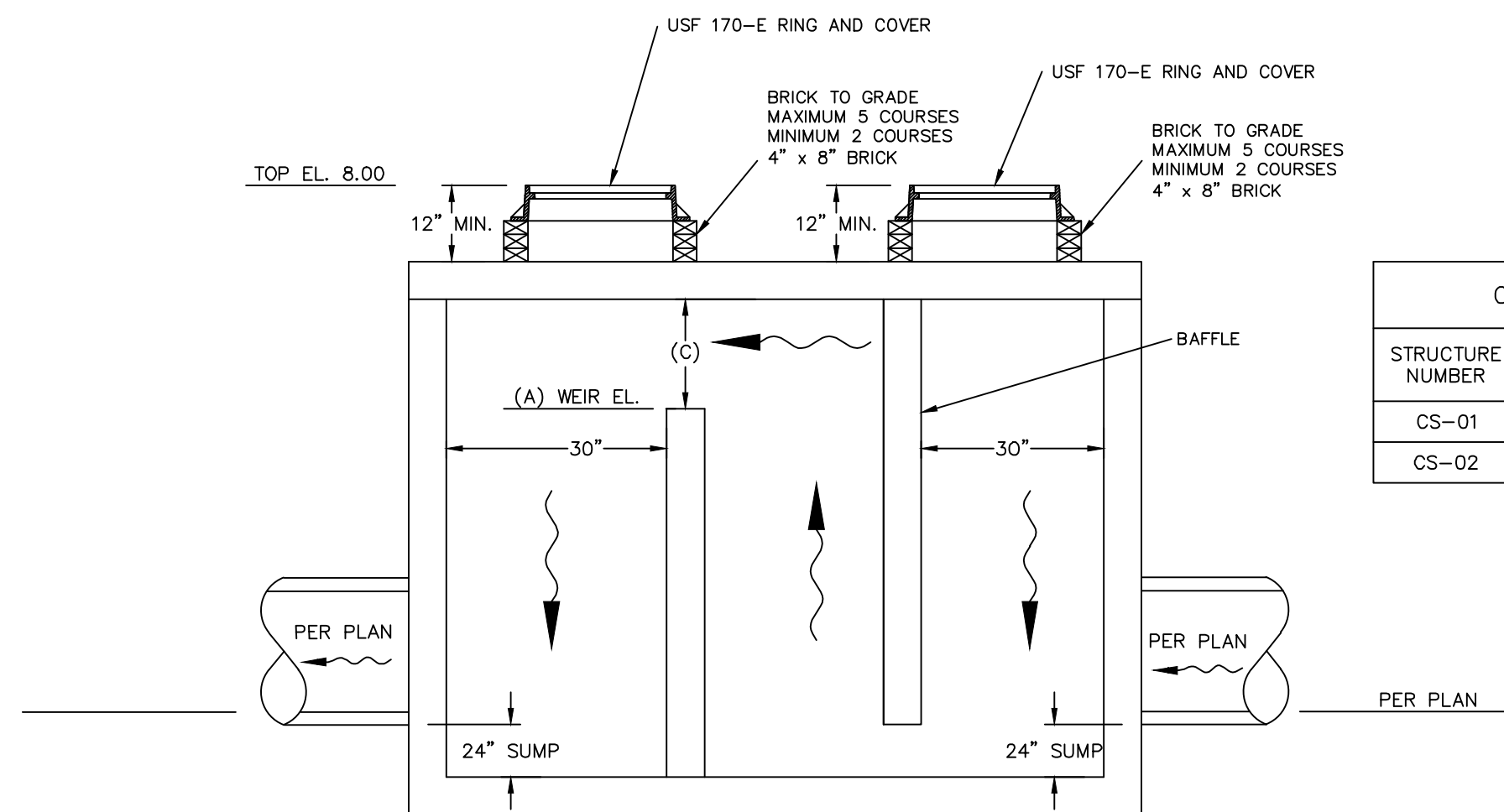
- NOTES:
1. ALUMINUM SHEET OF SAME THICKNESS (GAUGE) AS PIPE SHALL BE WELDED TO CLOSE OPENING AT THE TOP FOR THE BAFFLE OR BOTTOM FOR WEIR.
 2. NEOPRENE ADHESIVE BACKED GASKET, OR APPROVED EQUIV (1" X 2") SHALL BE INSTALLED ON THE SIDES AND TOP OF ALL BAFFLES OR BOTTOM OF WEIRS.
 3. POLLUTION RETARDANT BAFFLE OR HALF PIPE WEIR TO BE FASTENED IN PLACE WITH $\frac{3}{8}$ " X 4" STAINLESS STEEL "RED HEADS", OR APPROVED EQUAL.
 4. FIBERGLASS BAFFLES AND WEIRS ARE NOT PERMITTED.
 5. MOUNTING BRACKET MAY BE ADDED TO FLAT BARS TO EASE INSTALLATION IN ROUND STRUCTURES. SPACING TO MATCH HOLES IN FLAT BARS.

POLLUTION RETARDANT BAFFLE (PRB) AND WEIR DETAILS

N.T.S



PLAN VIEW

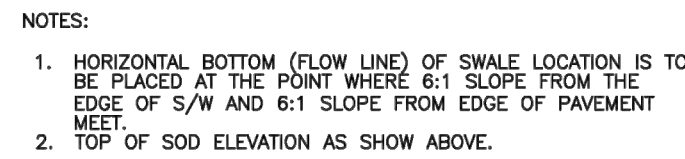


SECTION A-A

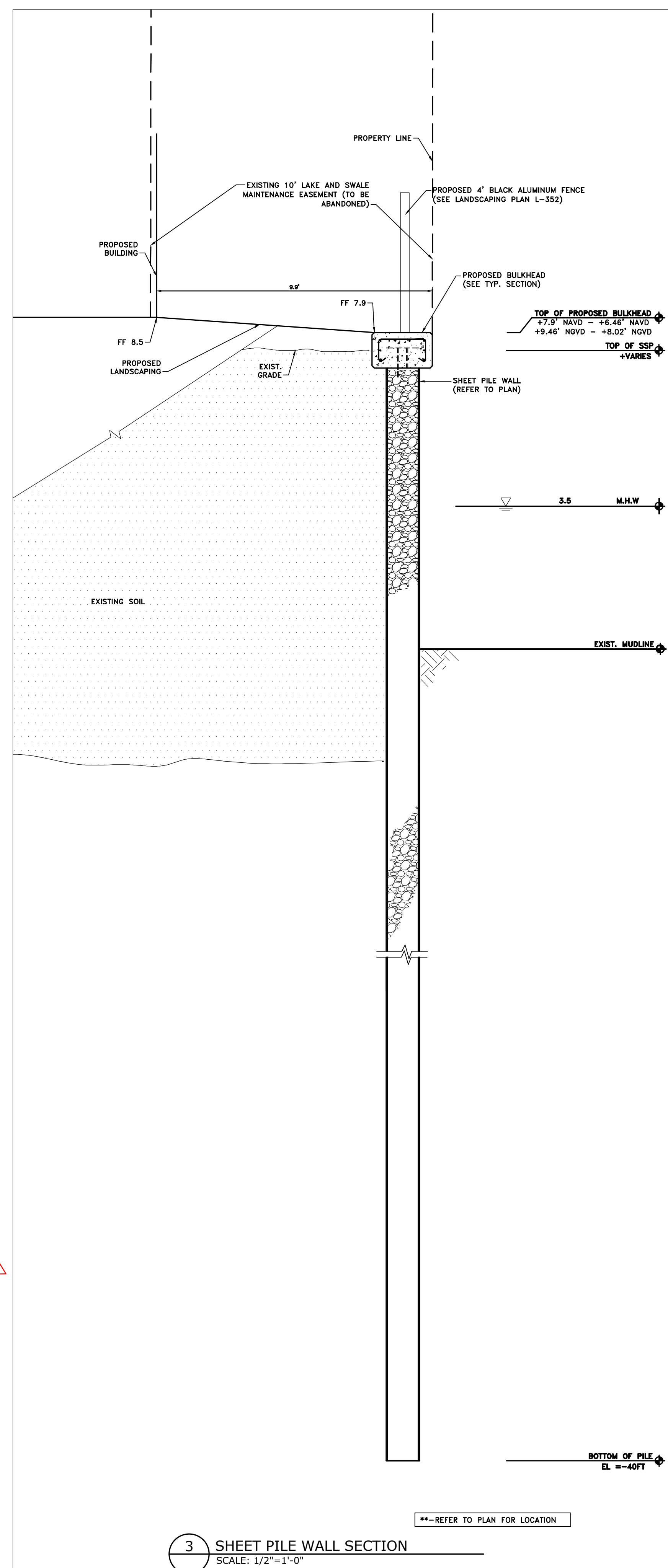
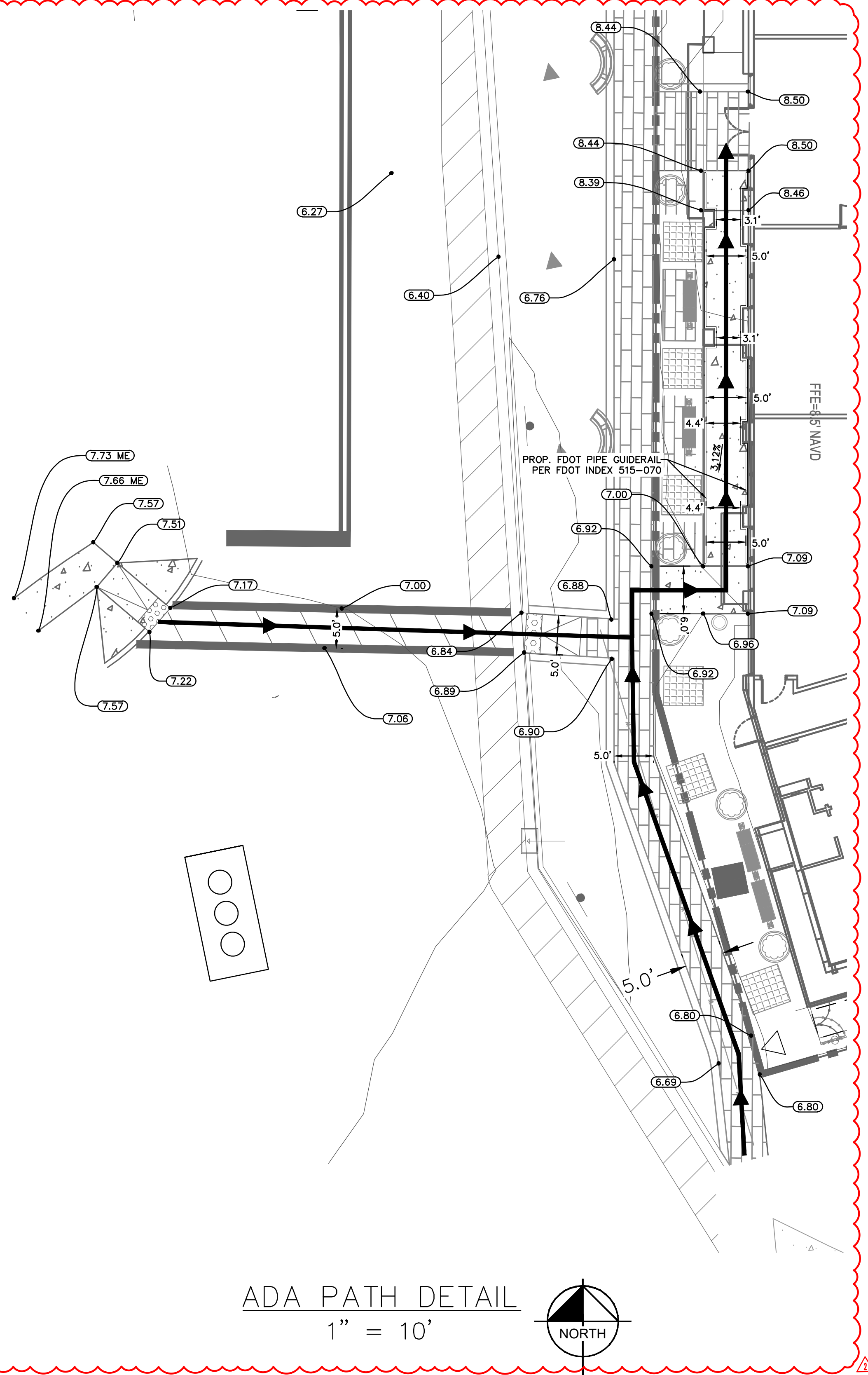
CONTROL STRUCTURE (CS-01, CS-02)

N.T.S

CONTROL STRUCTURE DATA			
STRUCTURE NUMBER	(A) WEIR ELEVATION	(B) WEIR SPAN (INCHES)	(C) WEIR RISE (INCHES)
CS-01	5.5000	48	12
CS-02	5.5000	48	12



	ISSUED: MAY 2023	DEPARTMENT OF DEVELOPMENT SERVICES ENGINEERING, TRANSPORTATION & MOBILITY DIVISION	REVISED: -
	DRAWN: EG	TYPICAL SWALE GRADING	DRAWING NO.: C-33
	APPROVED: JG		

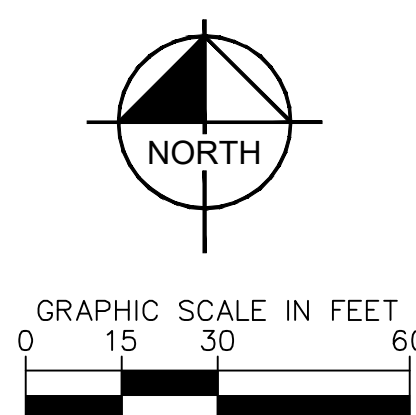
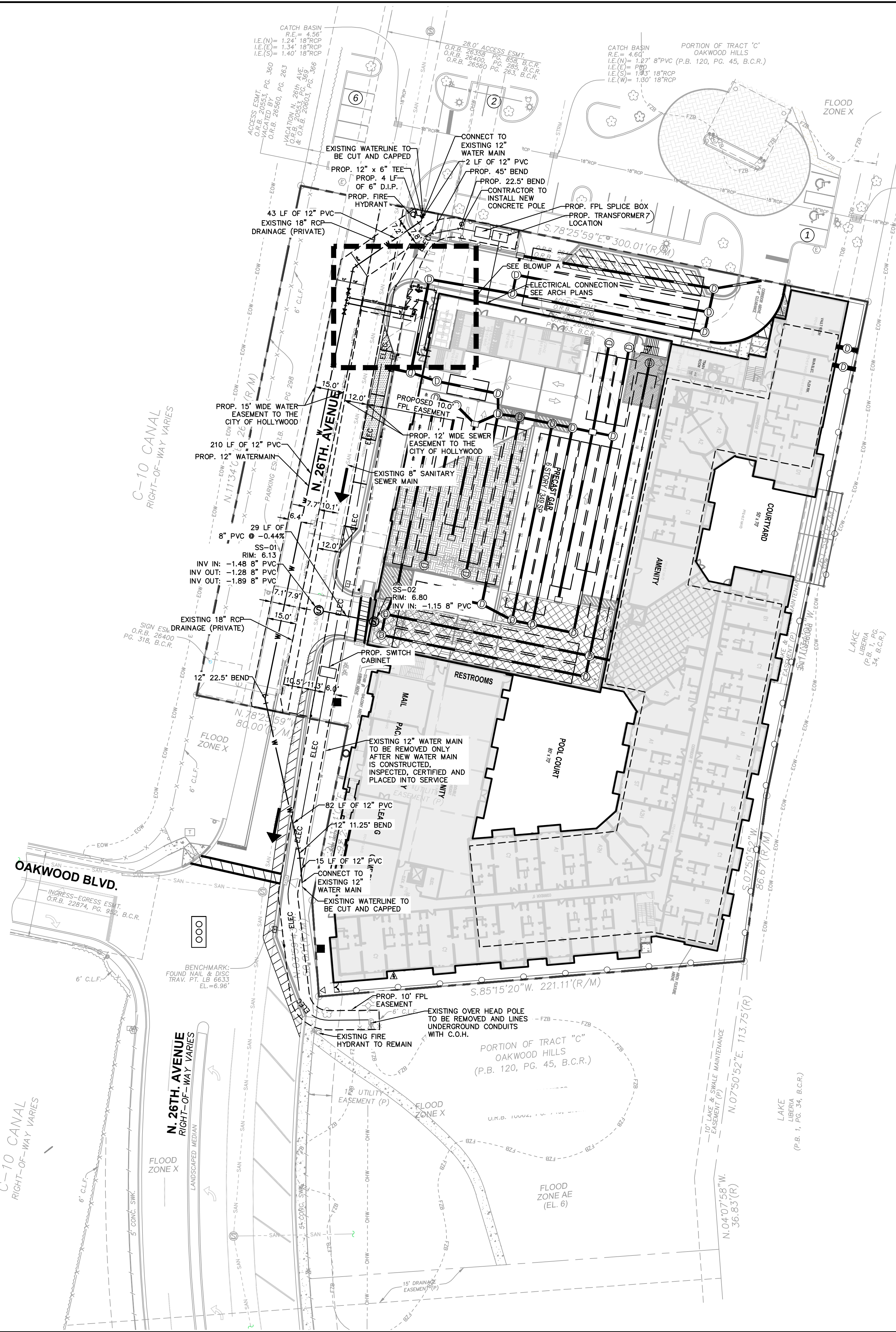


SECTION B-B

OAKWOOD EAST MULTI FAMILY PROJECT
CITY OF HOLLYWOOD FLORIDA
PAVING GRADING AND DRAINAGE PLAN DETAILS
KHA PROJECT 147507129
DATE 8 / 25 / 2025
SCALE AS SHOWN
DESIGNED BY SHB
DRAWN BY SHB
CHECKED BY GSW

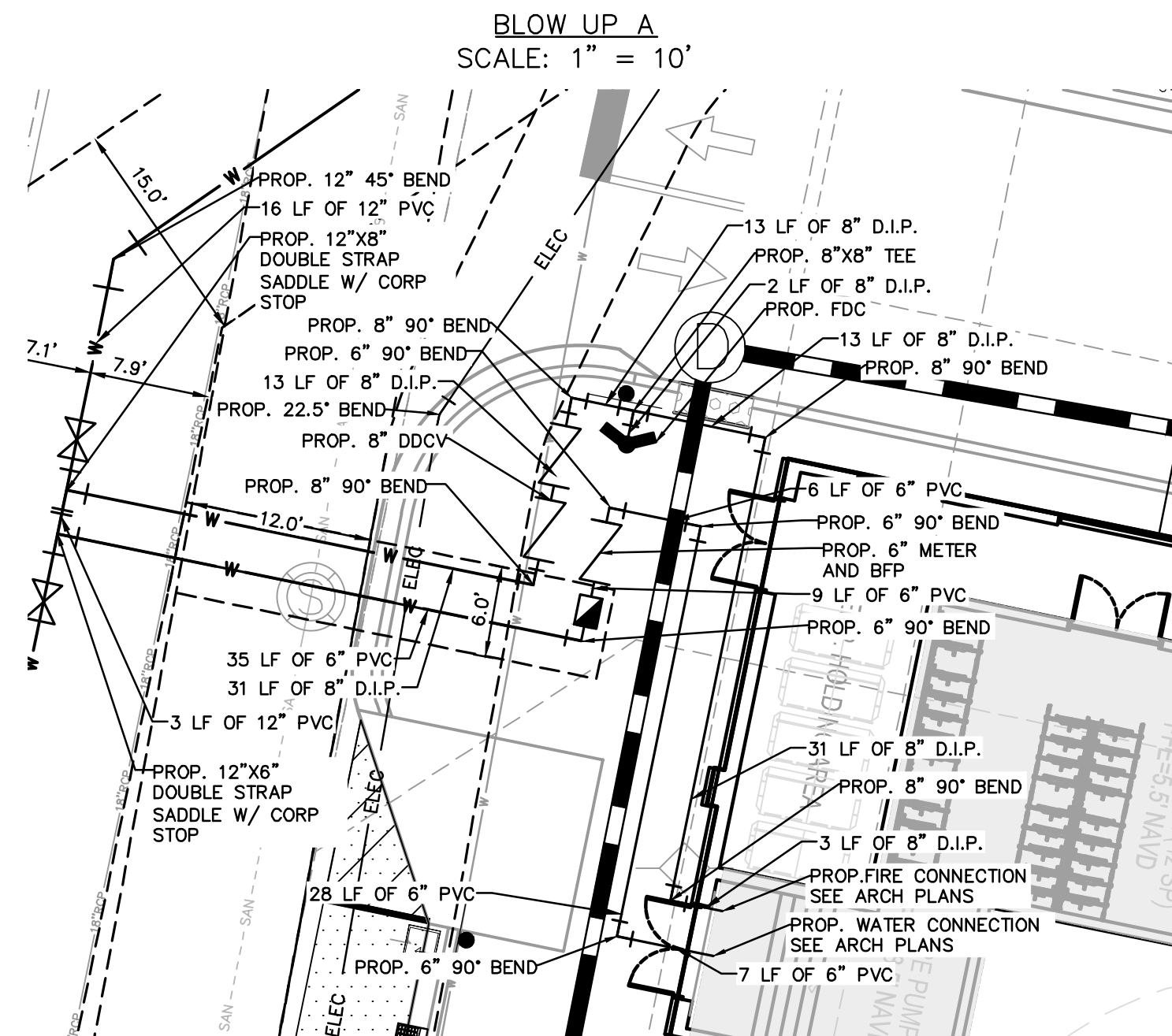
GREGORY D. WILFONG
LICENSED PROFESSIONAL ENGINEER
No. 63166
STATE OF FLORIDA

SHEET NUMBER C-352
Oakwood East Multi-Family Project
Kimley-Horn & Associates, Inc.
© 2024 KIMLEY-HORN AND ASSOCIATES, INC. 445 24TH STREET, SUITE 200, VERO BEACH, FL 32960 PHONE: 772-794-4100 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106
8/25/2025
No.
Revisions
Date
By



UTILITY LEGEND

	PROPERTY LINE
	UTILITY EASEMENT
	WATER MAIN (WM)
	SANITARY MAIN
	ELECTRIC
	GAS
	STORM PIPE
	FDC
	GATE VALVE
	90° BEND
	45° BEND
	22.5° BEND
	11.25° BEND
	TEE
	SEWER MANHOLE
	TRANSFORMER
	EXISTING SEWER MANHOLE
	PROP. UPLIGHTS (SEE LANDSCAPING)
	PROP. LIGHTPOLE



- # UTILITY NOTES
1. ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
 2. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE COMMENCING TO ANY EXISTING LINE.
 3. SANITARY SEWER PIPE SHALL BE AS FOLLOWS:
 6" PVC SDR36 PER ASTM D 3034. FOR PIPES LESS THAN 12" DEEP
 8" PVC SDR26 PER ASTM D 3034. FOR PIPES MORE THAN 12" DEEP
 6" PVC SCHEDULE 40
 DUCTILE IRON PIPE PER AWWA C150
 4. WATER LINES SHALL BE AS FOLLOWS:
 6" AND LARGER, PVC 200 PER ASTM D 2241 CLASS 200 UNDER
 COUNTY ROADS, OTHERWISE CLASS 150
 6" AND LARGER DUCTILE IRON PIPE PER AWWA C150
 SMALLER THAN 6" EITHER CHD OR DUCTILE IRON PIPE TYPE 1 (SOFT) PER ANSI
 816.22 OR PVC 200 P.S.I. PER ASTM D1784 AND D2241.
 5. MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
 6. ALL WATER JOINTS ARE TO BE MECHANICAL JOINTS WITH THRUST BLOCKING AS CALLED OUT IN SPECIFICATIONS.
 7. ALL UTILITIES SHOULD BE KEPT TEN (10') APART (PARALLEL) OR WHEN CROSSING 18" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE).
 8. CONTRACTOR SHALL MAINTAIN A MINIMUM 18" VERTICAL CLEARANCE TO ALL WATER LINES.
 9. IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATER LINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING. THE WATER LINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE. MEETING REQUIREMENTS OF ANSI A21.1 OR ANSI 21.1 (AWWA C-151) (CLASS 50).
 10. UNDERGROUND LINES SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
 11. TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATIONS WITHIN PAVED AREAS, AND TO BE ONE FOOT ABOVE FINISHED GRADE ELEVATIONS OUTSIDE PAVED AREAS.
 12. ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
 13. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES. REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
 14. CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES (ANY CITY) WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.
 15. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
 16. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS FOR ALL UTILITY CODES AND/OR UTILITY SERVICE COMPANIES. THIS INCLUDES THE FINAL CONNECTIONS OF THE SERVICE SHALL BE COMPLETED 30 DAYS PRIOR TO STORE POSSESSION.
 17. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
 18. REFER TO BUILDING PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
 19. UNDERGROUND UTILITY LINES SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
 20. REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
 21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING WATER MAINS, FORCE MAINS, SANITARY SEWER AND STORM MAINS AND MAINTAIN MINIMUM CLEARANCES BETWEEN WATER MAINS AND OTHER UTILITIES. JOINTS ALONG THEIR LENGTH AS REQUIRED IN THE PLANS, DETAILS AND SPECIFICATIONS.
 22. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS FOR ALL UTILITY CODES AND/OR UTILITY SERVICE COMPANIES. THIS INCLUDES THE FINAL CONNECTIONS OF THE SERVICE SHALL BE COMPLETED 30 DAYS PRIOR TO STORE POSSESSION.
 23. THE ENTIRE SERVICE FROM A BUILDING TO CONNECTION POINT IS TO BE INSTALLED BY A LICENSED UTILITY CONTRACTOR HOLDING A "CONTRACTOR V" LICENSE IN ACCORDANCE WITH CH. 489 OF THE FLORIDA STATUTES.
 24. ALL UTILITY MAIN LENGTHS SHOWN ARE APPROXIMATE.

FIRE UTILITY NOTE

1. ALL UNDERGROUND FIRE MAIN WORK MUST BE COMPLETED BY FIRE PROTECTION CONTRACTOR HOLDING A CLASS I, II, OR V LICENSE PER FS 329.02.
2. WATER SUPPLY AND ANY NEW HYDRANTS SHALL BE IN PLACE PRIOR TO ACCUMULATION OF COMBUSTIBLE MATERIALS PER NFPA 1 (2011 ED.) SECTION 16.5.3.1.1.
3. MOVING OF EXISTING UTILITY SHALL BE COMPLETED PRIOR TO THE START OF CONSTRUCTION. (2011 EDITION) SECTION 11.1.0.2 REQUIRES THAT MINIMUM RADIO SIGNAL STRENGTH FOR FIRE DEPARTMENT COMMUNICATIONS SHALL BE MAINTAINED AT A LEVEL DETERMINED BY THE A/JH FOR ALL NEW AND EXISTING BUILDINGS. — IF AT ANY TIME IT IS DETERMINED THE OBSTRUCTION (PHASE) FIRE DEPARTMENT PERSONNEL DETERMINE THAT THE MINIMUM RADIO SIGNAL STRENGTH IS NOT BEING MET, A TWO-WAY RADIO COMMUNICATION ENHANCEMENT SYSTEM MAY BE REQUIRED TO BE INSTALLED AS DETERMINED BY THE A/JH.

SHEET NUMBER C-400	OAKWOOD EAST MULTI FAMILY PROJECT CITY OF HOLLYWOOD FLORIDA	UTILITY PLAN	KHA PROJECT 147507129	8/25/2025		8/25/2025		© 2024 KIMLEY-HORN AND ASSOCIATES, INC. 445 24TH STREET, SUITE 200, VERO BEACH, FL 32960 PHONE: 772-794-4100 WWW.KIMLEY-HORN.COM	CITY OF HOLLYWOOD PLANNING REVISIONS 6/22/2025 SHB	No. _____ DATE _____ BY _____
			SCALE AS SHOWN DESIGNED BY SHB DRAWN BY SHB CHECKED BY GDW	REVISIONS No. _____ DATE _____ BY _____						

Plotted By: Tyros, Donny, Sheet Set: OAKWOOD EAST MULTI FAMILY PROJECT, Layout: C-450 UTILITY PLAN DETAILS August 25, 2025 12:40:15pm K:\VRBL-DEVE\147507129 - Oakwood Resi Towers\CAD\PlanSheets\C-450 UTILITY DETAILS.dwg
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GENERAL NOTES:

1. THE INFORMATION PROVIDED IN THESE DRAWINGS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF THE WORK. THE CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH BIDS WILL BE BASED.
2. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO APPLICABLE STANDARDS AND SPECIFICATIONS OF THE CITY OF HOLLYWOOD DEPARTMENT OF PUBLIC UTILITIES, ENGINEERING AND CONSTRUCTION SERVICES DIVISION (ECSO), AND ALL OTHER LOCAL, STATE AND NATIONAL CODES, WHERE APPLICABLE.
3. LOCATIONS, ELEVATIONS, SIZES, MATERIALS, ALIGNMENTS, AND DIMENSIONS OF EXISTING FACILITIES, UTILITIES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE PLANS; AND DO NOT PURPORT TO BE ABSOLUTELY CORRECT. ALSO, THERE MAY HAVE BEEN OTHER IMPROVEMENTS, UTILITIES, ETC., WITHIN THE PROJECT AREA WHICH WERE CONSTRUCTED AFTER THE PREPARATION OF THESE PLANS AND/OR THE ORIGINAL SITE SURVEY. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND OTHER FEATURES AFFECTING HIS/HER WORK PRIOR TO CONSTRUCTION, AND NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICT BETWEEN DRAWINGS AND ACTUAL CONDITIONS ARE DISCOVERED. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ANY FACILITIES SHOWN OR NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL WORK AS NEEDED TO AVOID CONFLICT WITH EXISTING UTILITIES (NO ADDITIONAL COST SHALL BE PAID FOR THIS WORK). EXISTING UTILITIES SHALL BE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE RESPECTIVE UTILITY OWNER.
4. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITIES TO ARRANGE FOR THE RELOCATION AND TEMPORARY SUPPORT OF UTILITY FEATURES, ETC. AS NECESSARY TO COMPLETE THE WORK.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ANY AND ALL EXISTING UTILITIES ON THIS PROJECT, AND TO ENSURE THAT EXISTING UTILITIES ARE MAINTAINED IN SERVICE DURING CONSTRUCTION UNLESS APPROVED OTHERWISE BY THE UTILITY OWNER.
6. CONTRACTOR SHALL ADJUST ALL EXISTING UTILITY CASTINGS INCLUDING VALVE BOXES, MANHOLES, HAND-HOLES, PULL-BOXES, STORMWATER INLETS, AND SIMILAR STRUCTURES IN CONSTRUCTION AREA TO BE OVERLAID WITH ASPHALT PAVEMENT.
7. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL APPLICABLE CONSTRUCTION AND ENVIRONMENTAL PERMITS PRIOR TO THE START OF CONSTRUCTION.
8. THE CONTRACTOR SHALL NOTIFY ECSO AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
9. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND INSTALLATION OF THE PROPOSED IMPROVEMENTS, SHOP DRAWINGS SHALL BE SUBMITTED TO ECSO IN ACCORDANCE WITH THE CONTRACT DOCUMENT'S REQUIREMENTS. FOR APPROVAL. IN ADDITION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY OTHER AGENCY SHOP DRAWING APPROVAL, IF REQUIRED.
10. THE CONTRACTOR SHALL NOTIFY ECSO IMMEDIATELY FOR ANY CONFLICT ARISING DURING CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
11. ELEVATIONS SHOWN ARE IN FEET AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).



ISSUED: 03/01/1994

DRAWN: EAM

APPROVED: XXX

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL

GENERAL NOTES

DRAWING NO. G-00

GENERAL NOTES (CONTINUED):

12. CITY OF HOLLYWOOD SHALL NOT PROVIDE STAGING / STORAGE AREA. CONTRACTOR SHALL SECURE STAGING / STORAGE AREA AS NECESSARY FOR CONSTRUCTION WORK.
13. CONTRACTOR SHALL HAUL AWAY EXCESSIVE STOCKPILE OF SOIL FOR DISPOSAL EVERY DAY. NO STOCKPILE SOIL IS ALLOWED TO BE LEFT ON THE CONSTRUCTION SITE OVER NIGHT.
14. CONTRACTOR SHALL CLEAN / SWEEP THE ROAD AT LEAST ONCE DAY OR AS REQUIRED BY THE ENGINEER.
15. CONTRACTOR SHALL PROTECT CATCH BASINS WITHIN / ADJACENT TO THE CONSTRUCTION SITE AS REQUIRED BY NPDES REGULATIONS.
16. THE CITY OF HOLLYWOOD HAS A NOISE ORDINANCE (CHAPTER 100) WHICH PROHIBITS EXCAVATION AND CONSTRUCTION BEFORE 8:00 A.M. AND AFTER 6:00 P.M., MONDAY THROUGH SATURDAY AND ALL DAY SUNDAY.
17. SUITABLE EXCAVATED MATERIAL SHALL BE USED IN FILL AREAS. NO SEPARATE PAY ITEM FOR THIS WORK, INCLUDE COST IN OTHER ITEMS.
18. ALL ROAD CROSSINGS ARE OPEN CUT AS PER THE REQUIREMENTS OF THE ECSO UNLESS OTHERWISE NOTED ON THE DRAWINGS.
19. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZING EARTH, DRIVEWAYS, PARKING LOTS, SIDEWALKS, ETC. TO SATISFY THE INSTALLATION OF THE PROPOSED IMPROVEMENTS WITH THE SAME TYPE OF MATERIAL THAT WAS REMOVED DURING CONSTRUCTION OR AS DIRECTED BY ECSO FIELD ENGINEER.
20. THE CONTRACTOR SHALL NOT ENCRoACH INTO PRIVATE PROPERTY WITH PERSONNEL, MATERIAL OR EQUIPMENT. IN CASE WORK ON PRIVATE PROPERTY IS NEEDED, A CITY OF HOLLYWOOD "RIGHT OF ENTRY" FORM MUST BE SIGNED BY PROPERTY OWNER AND THE DIRECTOR OF PUBLIC UTILITIES. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ACCESS AT ALL TIMES TO PRIVATE HOMES/BUSINESSES.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE, REMOVAL OR MODIFICATION, CAUSED TO ANY IRRIGATION SYSTEM (PRIVATE OR PUBLIC) ACCIDENTALLY OR PURPOSELY. THE CONTRACTOR SHALL REPLACE ANY DAMAGED, REMOVED OR MODIFIED IRRIGATION PIPES, SPRINKLER HEADS OR OTHER PERTINENT APPURTENANCES TO MATCH OR EXCEED EXISTING CONDITIONS AT NO ADDITIONAL COST TO THE CITY.
22. MAIL BOXES, FENCES OR OTHER PRIVATE PROPERTY DAMAGED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE REPLACED TO MATCH OR EXCEED EXISTING CONDITION.
23. CONTRACTOR SHALL PROVIDE MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH FDOT STANDARDS AND CITY OF HOLLYWOOD DEPARTMENT OF PUBLIC UTILITIES STANDARDS.
24. NO TREES ARE TO BE REMOVED OR RELOCATED WITHOUT PRIOR APPROVAL FROM THE ECSO FIELD ENGINEER.
25. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE NECESSARY TREE REMOVAL OR RELOCATION PERMITS FROM THE CITY OF HOLLYWOOD BUILDING DEPARTMENT FOR TREES LOCATED IN THE PUBLIC RIGHT OF WAY.
26. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE REGULATORY STANDARDS / REQUIREMENTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF ECSO.



ISSUED: 03/01/1994

DRAWN: EAM

APPROVED: XXX

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL

GENERAL NOTES (CONTINUED)

DRAWING NO. G-00.1

GENERAL NOTES (CONTINUED):

27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF AND MAKING THE REPAIRS TO EXISTING PAVEMENT, SIDEWALKS, PIPES, CONDUITS, CURBS, CABLES, ETC., WHETHER OR NOT SHOWN ON THE PLANS DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS AND/OR THOSE OF HIS SUBCONTRACTORS, AND SHALL RESTORE THEM PROMPTLY AT NO ADDITIONAL EXPENSE TO THE OWNER. CONTRACTOR SHALL REPORT ANY DAMAGE TO SIDEWALK, DRIVEWAY, ETC., PRIOR TO BEGINNING WORK IN ANY AREA.
28. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH EXISTING PAVEMENT TO MATCH EXISTING CONDITIONS.
29. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR LEAVE EXCAVATED TRENCHES, OR PARTS OF, EXPOSED OR OPENED AT THE END OF THE WORKING DAY, WEEKENDS, HOLIDAYS OR OTHER TIMES, WHEN THE CONTRACTOR IS NOT WORKING, UNLESS OTHERWISE DIRECTED. ALL TRENCHES SHALL BE COVERED, FIRMLY SECURED AND MARKED ACCORDINGLY FOR PEDESTRIAN / VEHICULAR TRAFFIC.
30. ALL EXCAVATED MATERIAL REMOVED FROM THIS PROJECT SHALL BE DISPOSED OF OFF THE PROPERTY BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
31. ALL DUCTILE IRON PRODUCTS SHALL BE DOMESTIC MADE HEAVY DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS, OR 20,000 LB.
32. ALL GRASSED AREAS AFFECTED BY CONSTRUCTION SHALL BE RE-SODDED.
33. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH SPECIFICATIONS OF THE LATEST REVISION OF FDOT DESIGN STANDARDS. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESETTling OF ALL TRAFFIC CONTROL AND INFORMATION SIGNAGE REMOVED DURING THE CONSTRUCTION PERIOD.
34. EXCAVATED OR OTHER MATERIAL STORED ADJACENT TO OR PARTIALLY UPON A ROADWAY PAVEMENT SHALL BE ADEQUATELY MARKED FOR TRAFFIC SAFETY AT ALL TIMES.
35. TEMPORARY PATCH MATERIAL MUST BE ON THE JOB SITE WHENEVER PAVEMENT IS CUT, OR THE CITY'S INSPECTOR WILL SHUT THE JOB DOWN.
36. CONTRACTOR MUST PROVIDE FLASHER ARROW SIGNAL FOR ANY LANE THAT IS CLOSED OR DIVERTED.
37. CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT AND FIRE PROTECTION SERVICES TWENTY-FOUR (24) HOURS IN ADVANCE OF TRAFFIC DETOUR IN ACCORDANCE WITH SECTION 336.07 OF FLORIDA STATUTES.
38. CONTRACTOR TO RESTORE PAVEMENT TO ORIGINAL CONDITION AS REQUIRED.
39. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DEWATERING PER SPECIFICATION SECTION 02140 DEWATERING.



ISSUED: 03/01/1994

DRAWN: EAM

APPROVED: XXX

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL

GENERAL NOTES (CONTINUED)

DRAWING NO. G-00.2

GENERAL NOTES (CONTINUED):

40. THE CONTRACTOR SHALL GIVE AT LEAST 48 HOURS NOTICE TO UTILITY COMPANIES TO PROVIDE FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES IN ADVANCE OF CONSTRUCTION. CONTACT UTILITIES NOTIFICATION CENTER AT 811 OR 1-800-432-4770 (SUNSHINE ONE-CALL OF FLORIDA).
-
41. WHEN PVC PIPE IS USED, A METALLIZED MARKER TAPE SHALL BE INSTALLED CONTINUOUSLY 18" ABOVE THE PIPE. THE MARKER TAPE SHOULD BE IMPRINTED WITH A WARNING THAT THERE IS BURIED PIPE BELOW. THE TAPE SHALL BE MAGNA TEC, AS MANUFACTURED BY THOR ENTERPRISES INC. OR APPROVED EQUAL.
 42. ALL CONNECTIONS TO EXISTING MAINS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. WATER CONNECTIONS SHALL BE METERED, AND THE COST OF WATER AND TEMPORARY METER SHALL BE BORNE BY THE CONTRACTOR.
 43. A COMPLETE AS-BUILT SURVEY SHALL BE ACCURATELY RECORDED OF THE UTILITY SYSTEM DURING CONSTRUCTION. AS-BUILT SURVEY SHALL BE SUBMITTED TO ECSO SIGNED AND SEALED BY A FLORIDA REGISTERED SURVEYOR PRIOR TO FINAL INSPECTION AND ACCEPTANCE OF PROJECT. THE COST OF SIGNED AND SEALED AS-BUILTS SHALL BE COVERED IN OVERALL BID. THE AS-BUILT SURVEY SHALL INCLUDE:
 - a. PLAN VIEW SHOWING THE HORIZONTAL LOCATIONS OF EACH MANHOLE, INLET, VALVE, FITTING, BEND AND HORIZONTAL PIPE DEFLECTIONS WITH COORDINATES AND IN REFERENCE TO A SURVEY BASELINE OR RIGHT-OF-WAY CENTERLINE.
 - b. THE PLAN VIEW SHALL ALSO SHOW SPOT ELEVATIONS OF THE TOP OF THE MAIN (WATER MAIN AND FORCE MAIN) OR PIPE INVERTS (GRAVITY MAINS) AT INTERVALS NOT TO EXCEED 100 FEET AS MEASURED ALONG MAIN. THE PLAN VIEW SHALL ALSO INCLUDE SPOT ELEVATIONS AT EACH MANHOLE, INLET, VALVE, FITTING, BEND AND VERTICAL PIPE DEFLECTION.
 - c. THE PLAN VIEW SHALL ALSO SHOW THE HORIZONTAL SEPARATION FROM UNDERGROUND UTILITIES IMMEDIATELY ADJACENT OR PARALLEL TO THE NEW MAIN.
 - d. PROFILE VIEW WITH SPOT ELEVATIONS OF THE TOP OF THE MAIN (WATER MAIN AND FORCE MAIN) OR PIPE INVERT (GRAVITY MAIN) AND OF THE FINISHED GRADE OR MANHOLE RIM DIRECTLY ABOVE THE MAIN AT INTERVALS NOT TO EXCEED 100 FEET AS MEASURED ALONG THE MAIN. THE PROFILE VIEW SHALL ALSO INCLUDE SPOT ELEVATIONS AT EACH MANHOLE, INLET, VALVE, FITTING, BEND AND VERTICAL PIPE DEFLECTION.
 - e. THE PROFILE VIEW SHALL SHOW ALL UNDERGROUND UTILITIES CROSSING THE NEW MAIN AND THE VERTICAL SEPARATION PROVIDED BETWEEN THAT UNDERGROUND UTILITY AND THE NEW MAIN.
 - f. ALL CADD FILES MUST BE CREATED FOLLOWING THE CITY OF HOLLYWOOD "SURVEY / AS-BUILT CADD DRAWING STANDARDS"



ISSUED: 03/01/1994

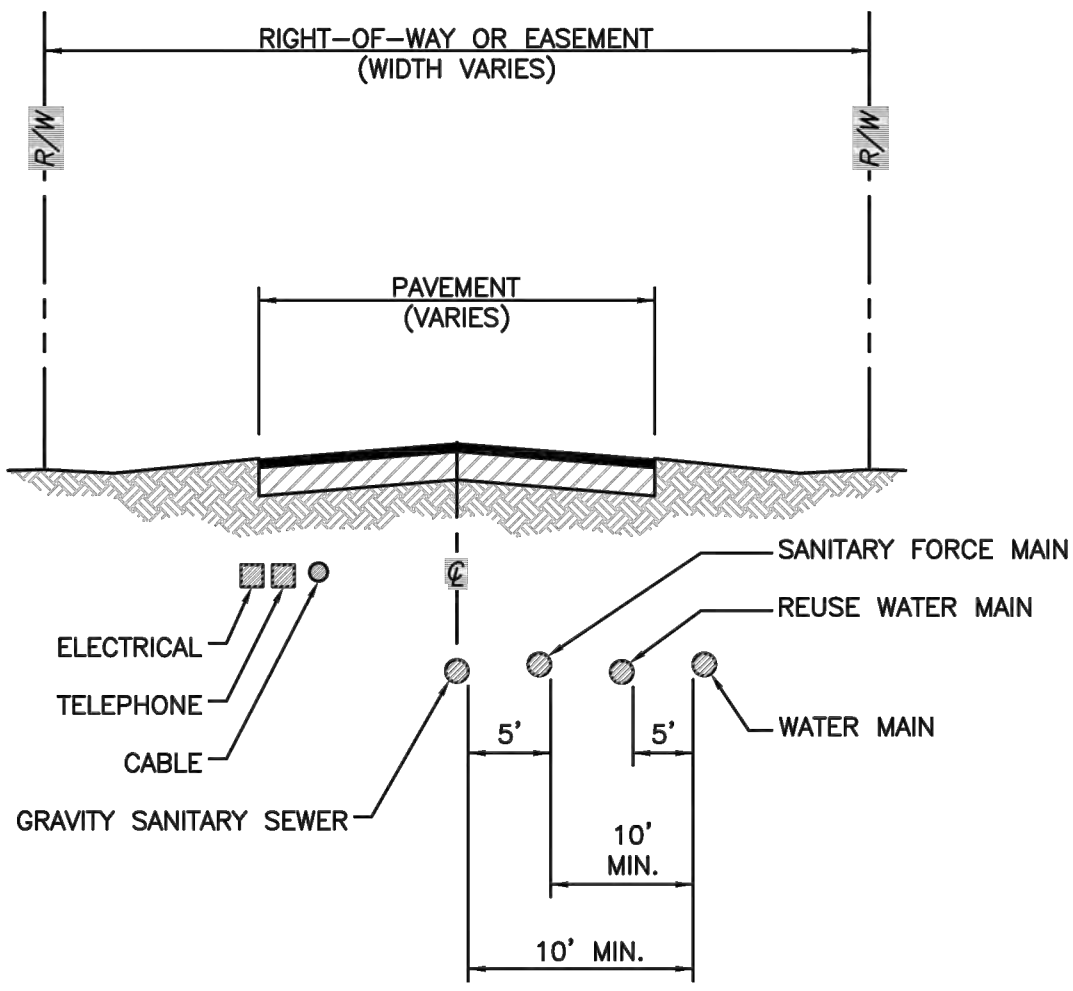
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DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL

GENERAL NOTES (CONTINUED)

DRAWING NO. G-00.3



ISSUED: 03/01/1994

DRAWN: EAM

APPROVED: XXX

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL

TYPICAL UTILITY ACCOMMODATION WITHIN RIGHT-OF-WAY OR EASEMENT

DRAWING NO. G-01

WATER MAIN SEPARATION IN ACCORDANCE WITH F.A.C. RULE 62-555.314

OTHER PIPE	HORIZONTAL SEPARATION	CROSSING (1), (4)	JOINT SPACING @ CROSSING (FULL JOINT CENTERED) (8)
STORM SEWER, STORM WATER FORCE MAIN, RECLAIMED WATER (2)			Alternate 3 ft minimum
GRAVITY SANITARY SEWER, (3) SANITARY SEWER FORCE MAIN, RECLAIMED WATER			Alternate 6 ft minimum
ON-SITE SEWAGE TREATMENT & DISPOSAL SYSTEM	10 ft minimum		

1. WATER MAIN SHOULD CROSS ABOVE OTHER PIPE, WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.
2. RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
3. 3 FT. FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.
4. 18" VERTICAL MINIMUM SEPARATION REQUIRED BY CITY OF HOLLYWOOD, UNLESS OTHERWISE APPROVED.
5. A MINIMUM 6 FOOT HORIZONTAL SEPARATION SHALL BE MAINTAINED BETWEEN ANY TYPE OF SEWER AND WATER MAIN IN PARALLEL INSTALLATIONS WHENEVER POSSIBLE.
6. IN CASES WHERE IT IS NOT POSSIBLE TO MAINTAIN A 10 FOOT HORIZONTAL SEPARATION, THE WATER MAIN MUST BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELf LOCATED ON ONE SIDE OF THE SEWER OR FORCE MAIN AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.
7. WHERE IT IS NOT POSSIBLE TO MAINTAIN A VERTICAL DISTANCE OF 18 INCHES IN A PARALLEL INSTALLATIONS, THE WATER MAIN SHALL BE CONSTRUCTED OF DIP AND THE SANITARY SEWER OR FORCE MAIN SHALL BE CONSTRUCTED OF DIP WITH A MINIMUM VERTICAL DISTANCE OF 6 INCHES. THE WATER MAIN SHOULD ALWAYS BE ABOVE THE SEWER. JOINTS ON THE WATER MAIN SHALL BE LOCATED AS FAR APART AS POSSIBLE FROM JOINTS ON THE SEWER OR FORCE MAIN (STAGGERED JOINTS).
8. ALL JOINTS ON THE WATER MAIN WITHIN 20 FEET OF THE CROSSING MUST BE MECHANICALLY RESTRAINED.



ISSUED: 03/01/1994

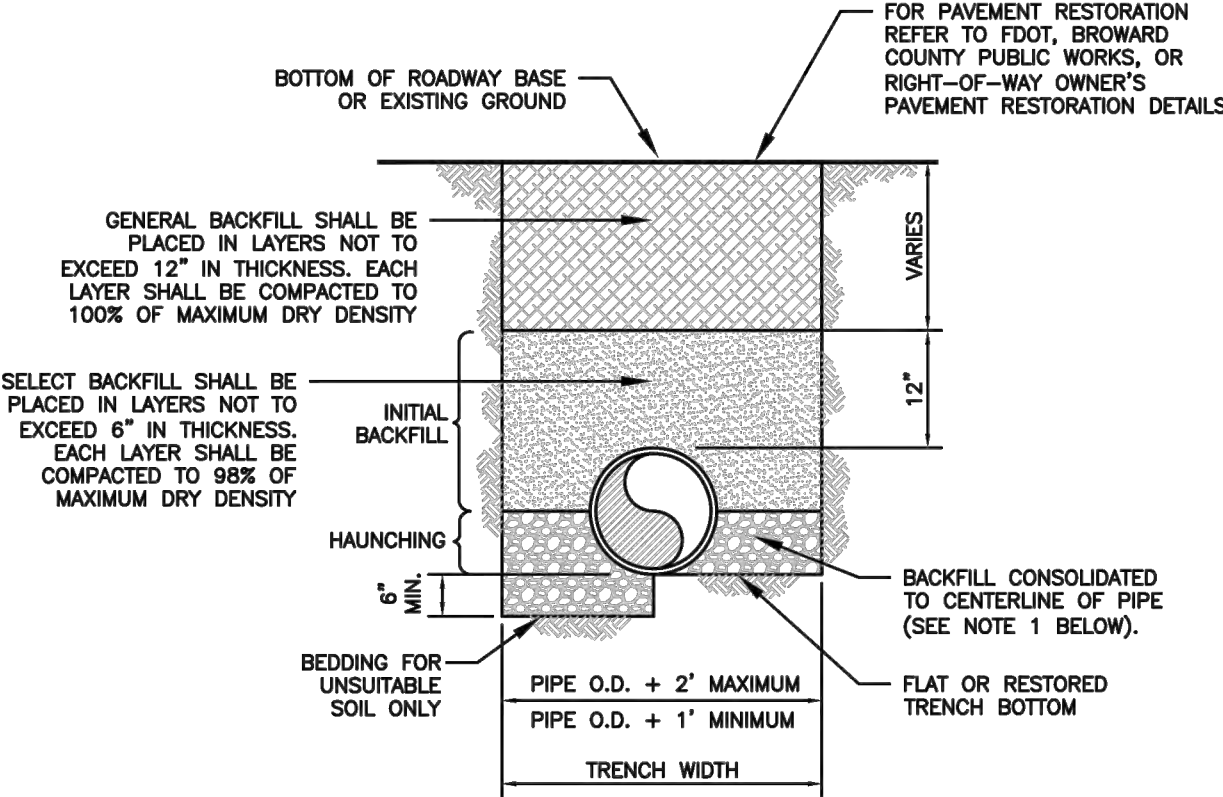
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DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL

SEPARATION REQUIREMENTS OF F.D.E.P.

DRAWING NO. G-01.1



NOTES:

1. WHEN PIPE INSTALLATION IS ABOVE THE GROUND WATER TABLE ELEVATION, OR WHENEVER BEDDING COPPER PIPE UNDER ANY CONDITION, BEDDING MATERIAL SHALL BE CLEAN SANDY SOIL IF AVAILABLE WITHIN THE LIMITS OF CONSTRUCTION. IMPORTED BEDDING SHALL BE WELL GRADED, WASHED CRUSHED STONE (OR DRAINFIELD LIMEROCK), CRUSHED STONE SHALL CONSIST OF HARD, DURABLE, SUB-ANGULAR PARTICLES OF PROPER SIZE AND GRADATION, AND SHALL BE FREE FROM ORGANIC MATERIAL, WOOD, TRASH, SAND, LOAM, CLAY, EXCESS FINES, AND OTHER DELETERIOUS MATERIALS.
2. ALL BEDDING MATERIAL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY BEFORE ANY PIPE IS LAID. FOR ADDITIONAL MATERIAL SPECIFICATIONS REFER TO SPECIFICATION SECTION 02222, "EXCAVATION AND BACKFILL FOR UTILITIES".
3. DENSITY TESTING SHALL BE IN ACCORDANCE WITH AASHTO T-180 AND ASTM D-3017.
4. BACKFILL TO COMPLY WITH FDOT DESIGN STANDARDS 125--B.



ISSUED: 03/01/1994

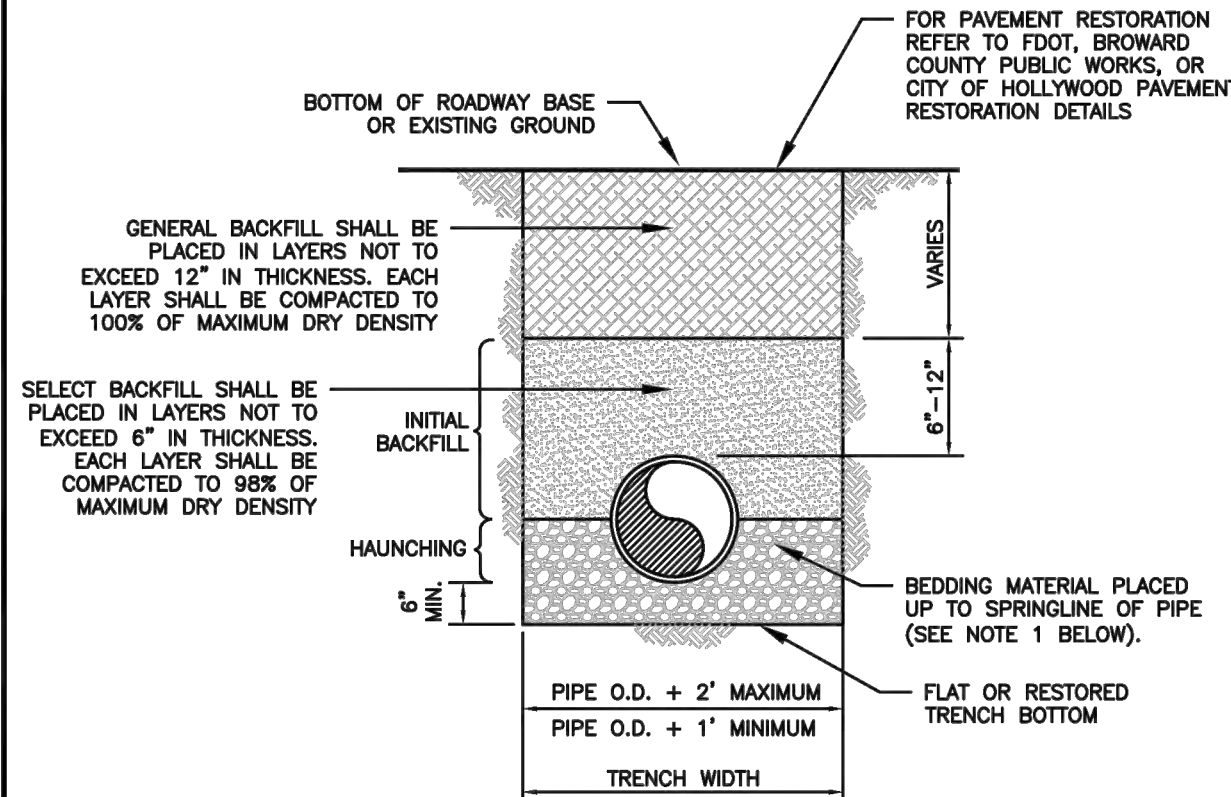
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DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL

PIPE LAYING CONDITION TYPICAL SECTION (D.I.P.)

DRAWING NO. G-02



NOTES:

1. WHEN PIPE INSTALLATION IS ABOVE THE GROUND WATER TABLE ELEVATION, OR WHENEVER BEDDING COPPER PIPE UNDER ANY CONDITION, BEDDING MATERIAL SHALL BE CLEAN SANDY SOIL IF AVAILABLE WITHIN THE LIMITS OF CONSTRUCTION. IMPORTED BEDDING SHALL BE WELL GRADED, WASHED CRUSHED STONE (OR DRAINFIELD LIMEROCK), CRUSHED STONE SHALL CONSIST OF HARD, DURABLE, SUB-ANGULAR PARTICLES OF PROPER SIZE AND GRADATION, AND SHALL BE FREE FROM ORGANIC MATERIAL, WOOD, TRASH, SAND, LOAM, CLAY, EXCESS FINES, AND OTHER DELETERIOUS MATERIALS.
2. ALL BEDDING MATERIAL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY BEFORE ANY PIPE IS LAID. FOR ADDITIONAL MATERIAL SPECIFICATIONS REFER TO SPECIFICATION SECTION 02222, "EXCAVATION AND BACKFILL FOR UTILITIES".
3. DENSITY TESTING SHALL BE IN ACCORDANCE WITH AASHTO T-180 AND ASTM D-3017.
4. BACKFILL TO COMPLY WITH FDOT DESIGN STANDARD 125--B.



ISSUED: 03/01/1994

DRAWN: EAM

APPROVED: XXX

DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL

PIPE LAYING CONDITION TYPICAL SECTION (P.V.C.)

DRAWING NO. G-03

UTILITY PLAN DETAILS

OAKWOOD EAST MULTI FAMILY PROJECT

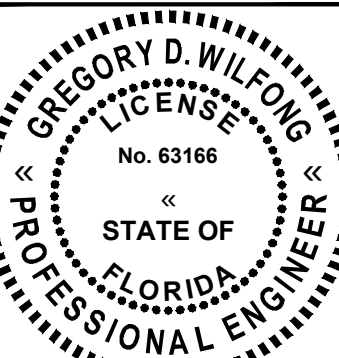
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SHEET NUMBER C-450

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8/25/2025

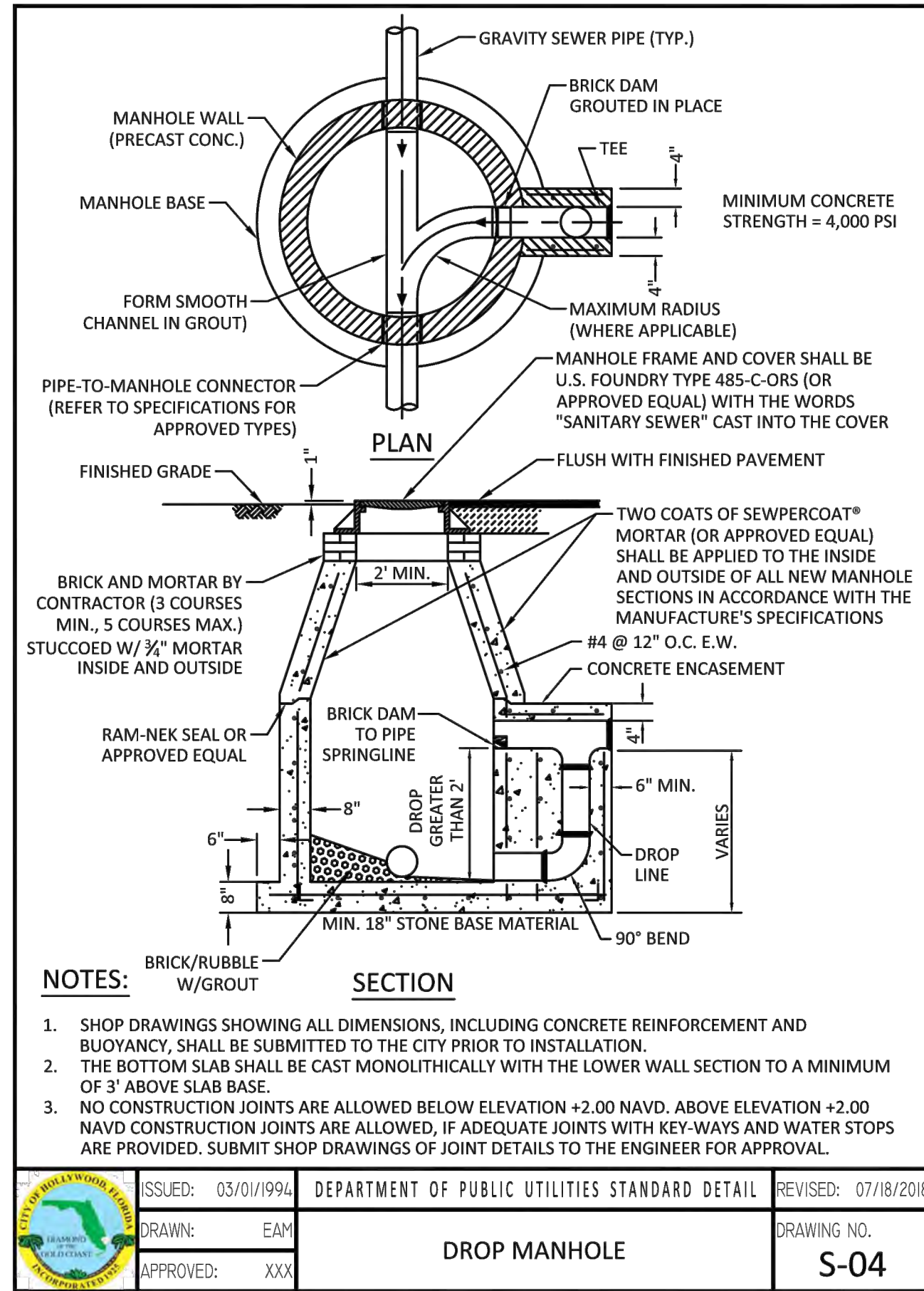
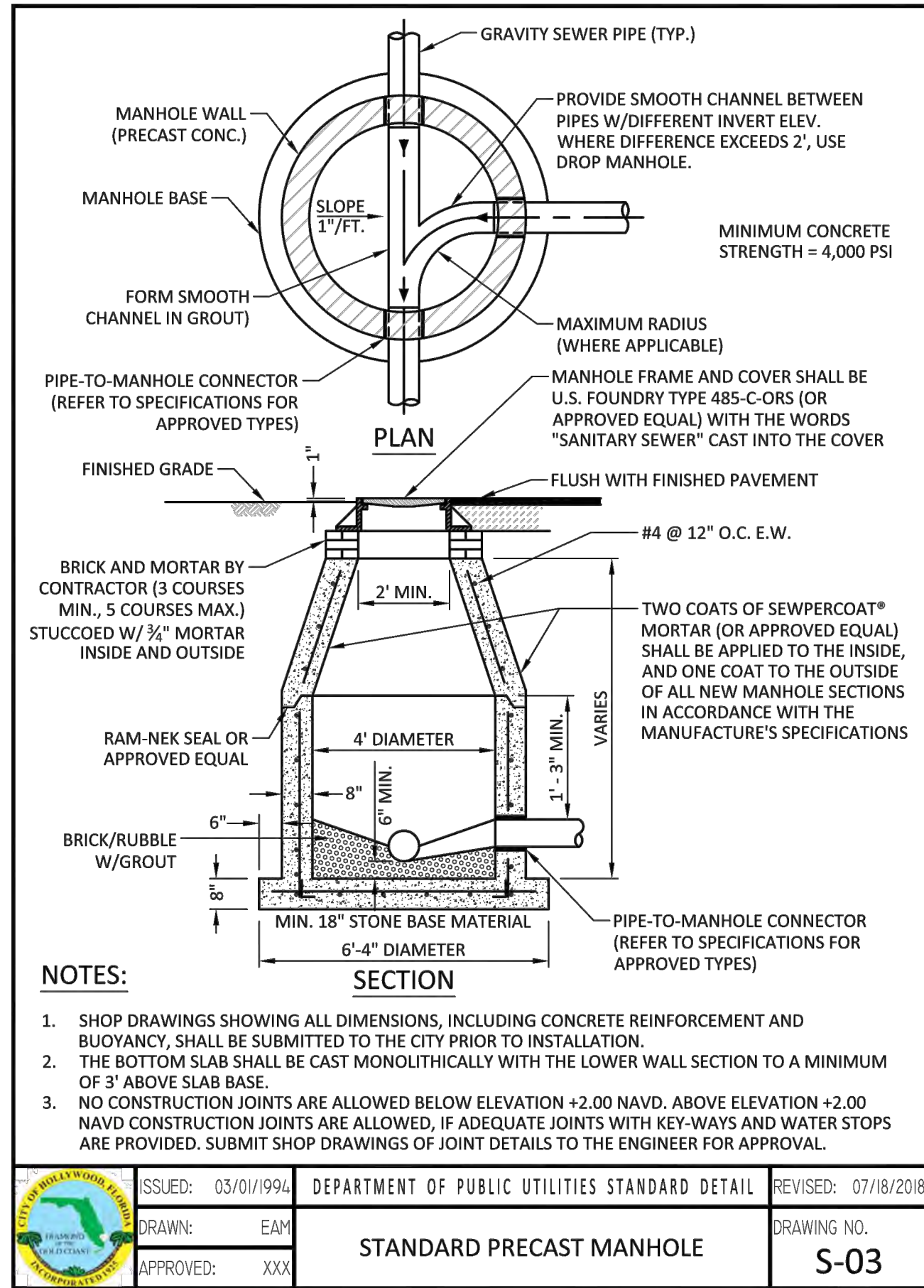
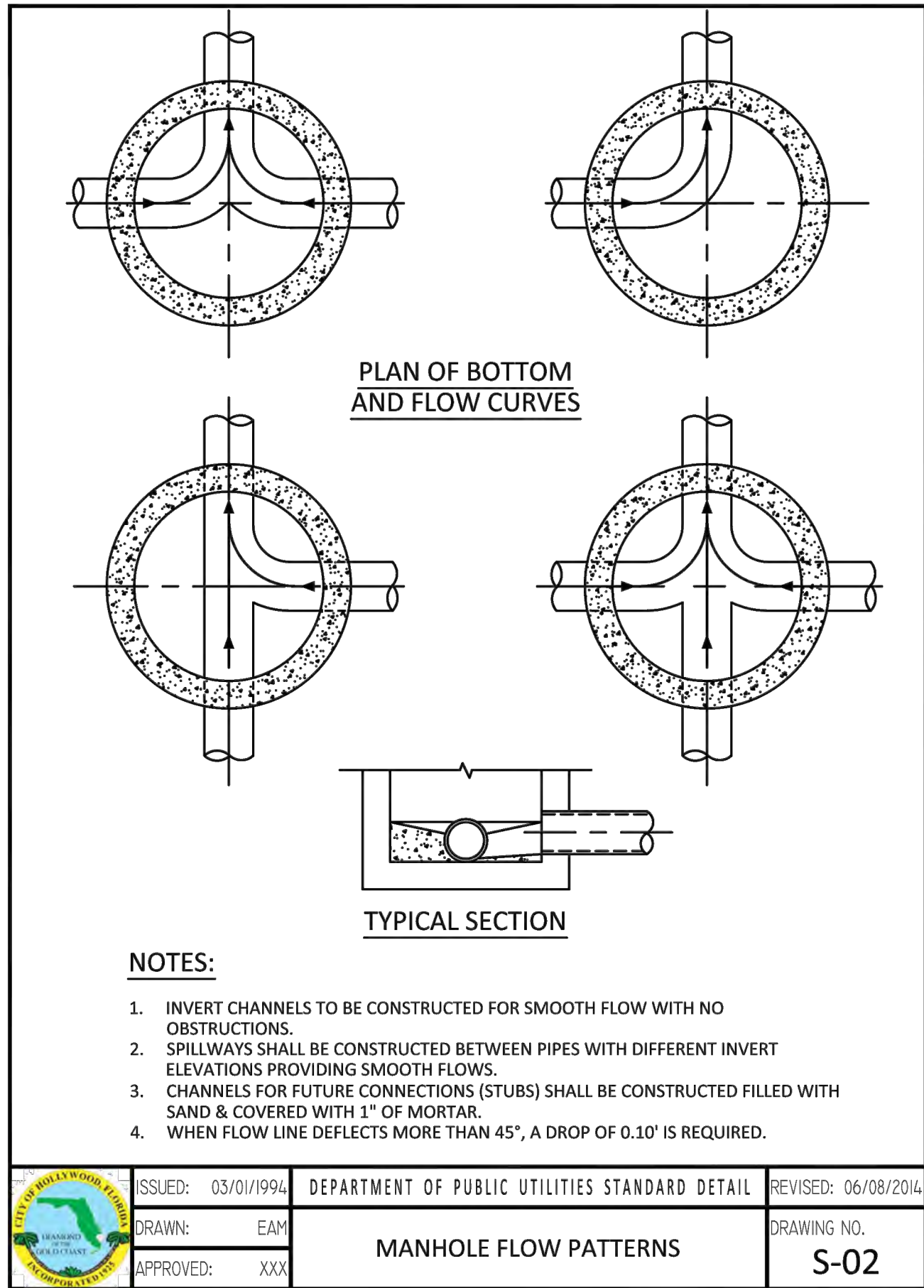
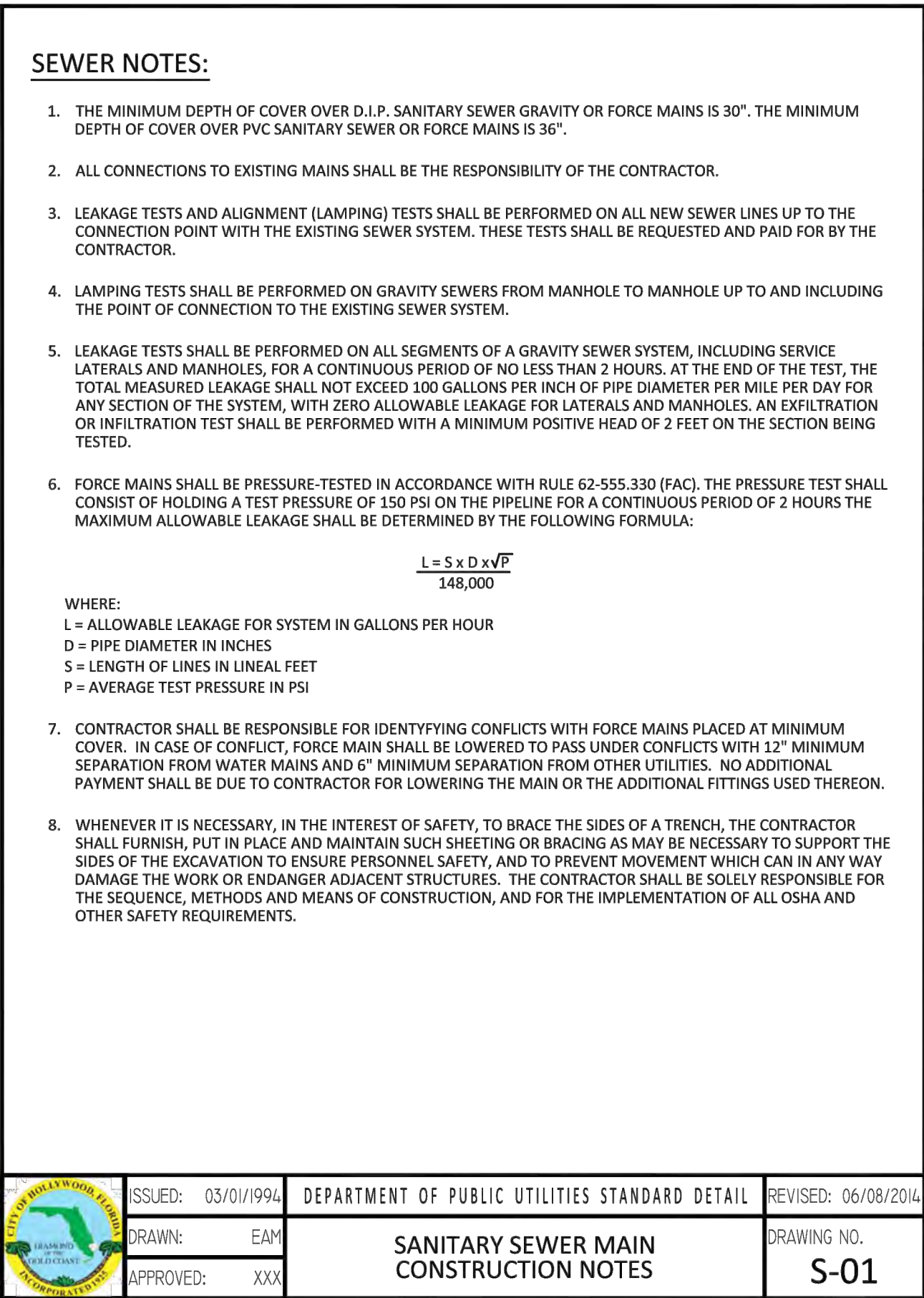
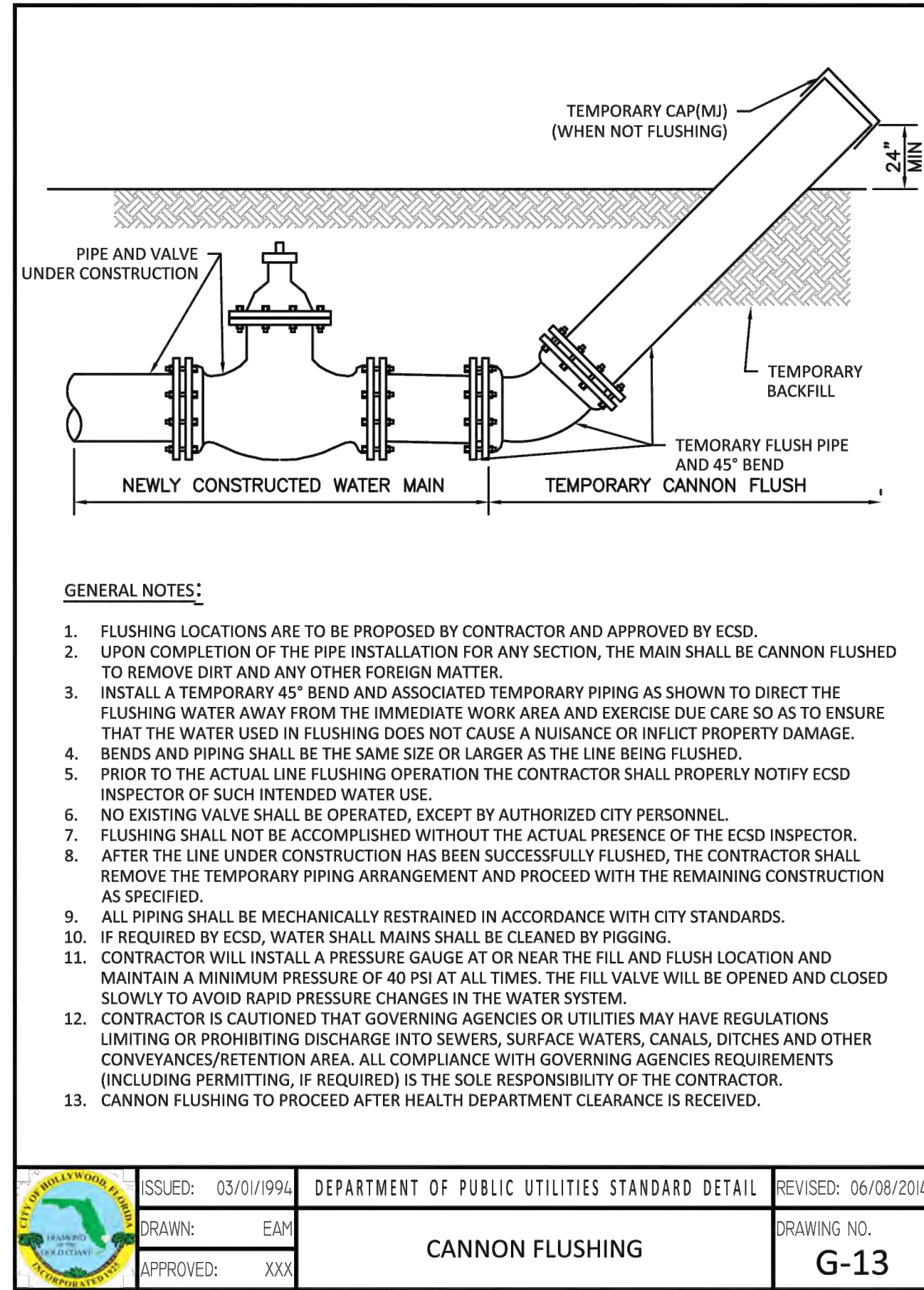
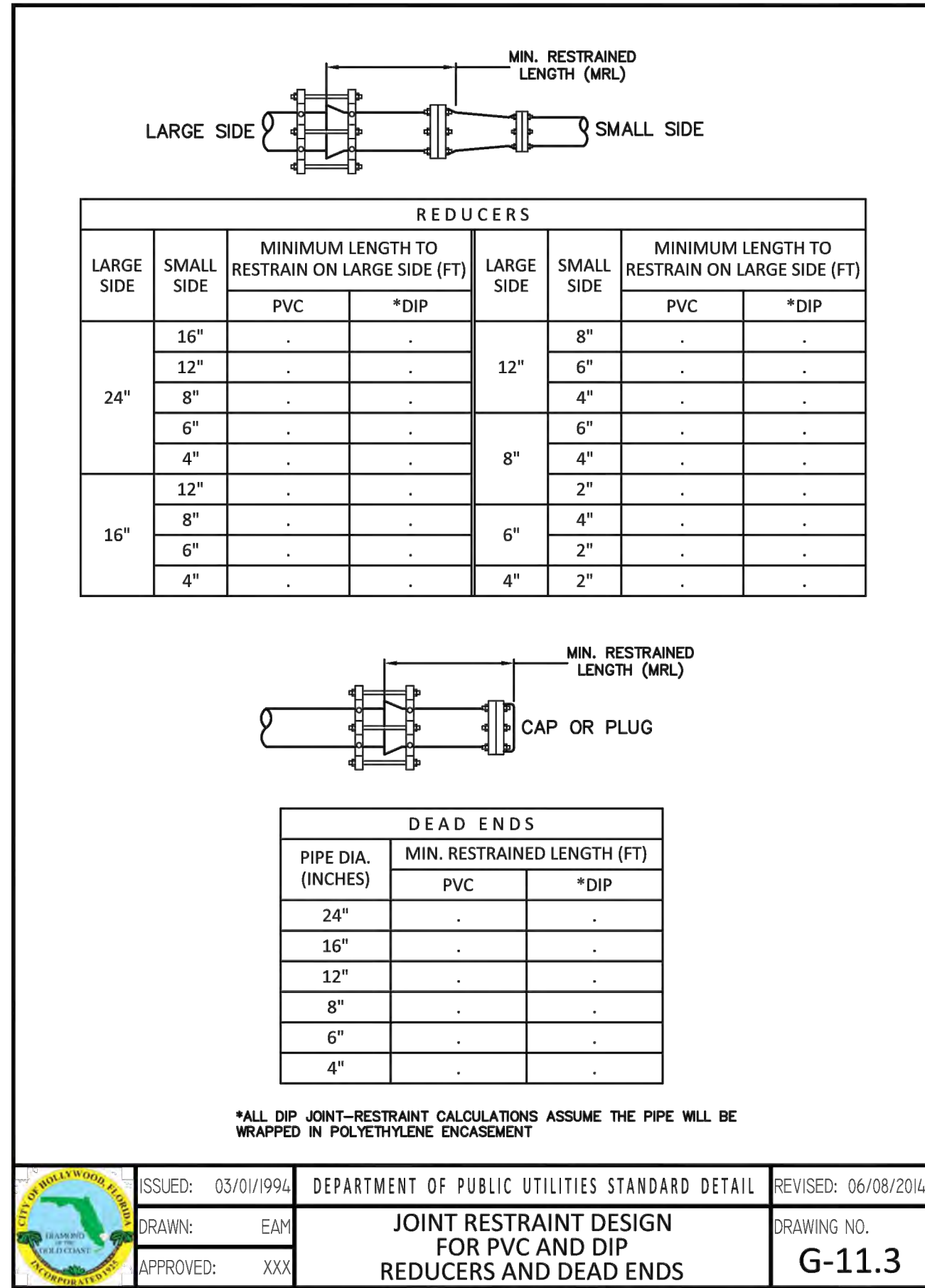
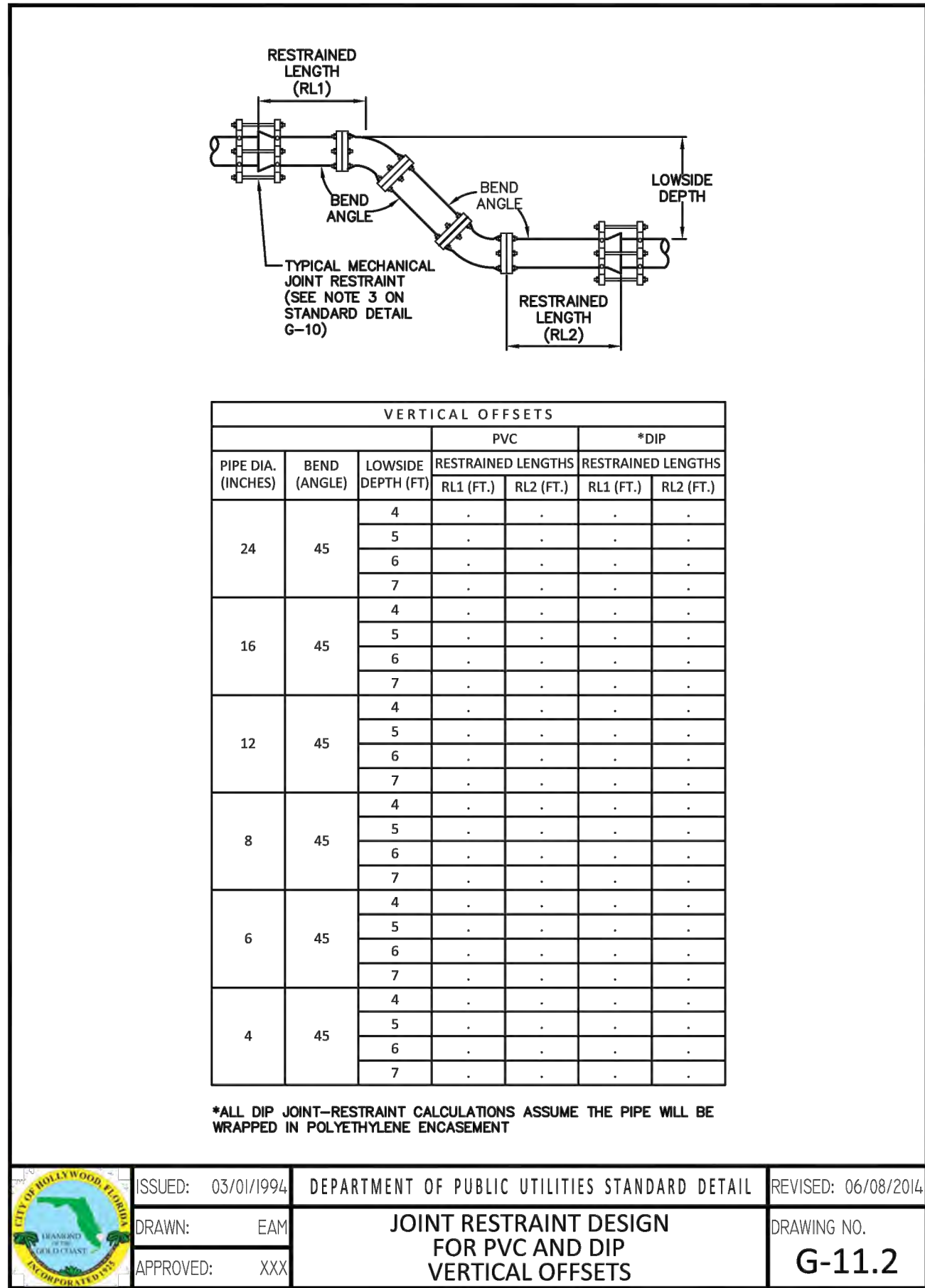
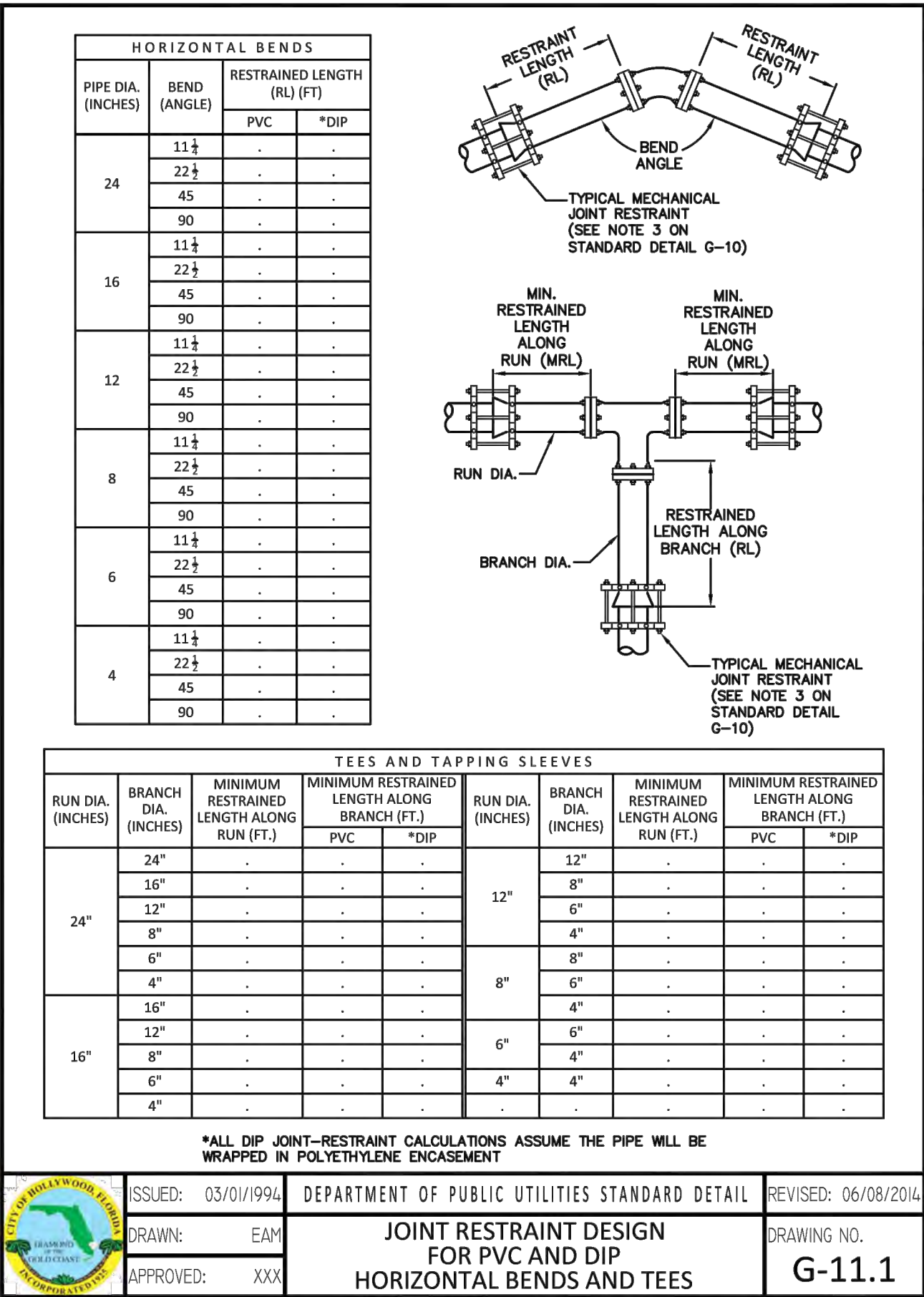


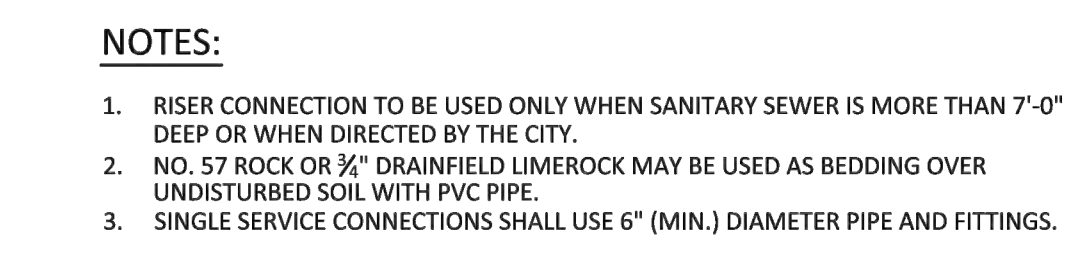
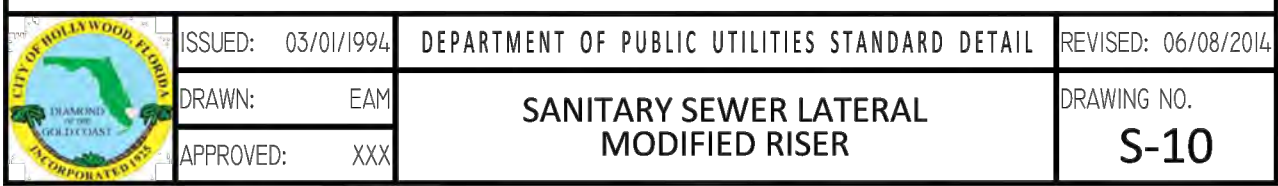
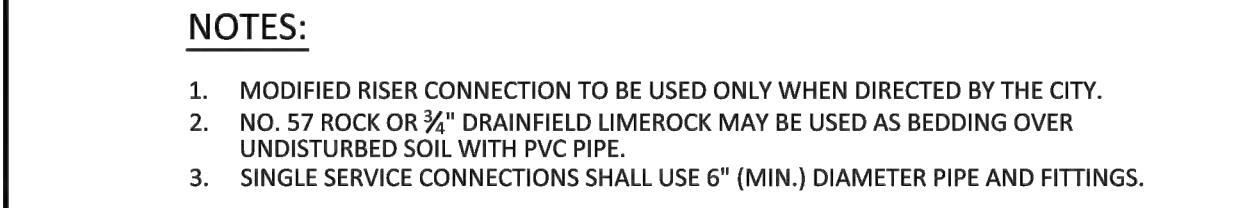
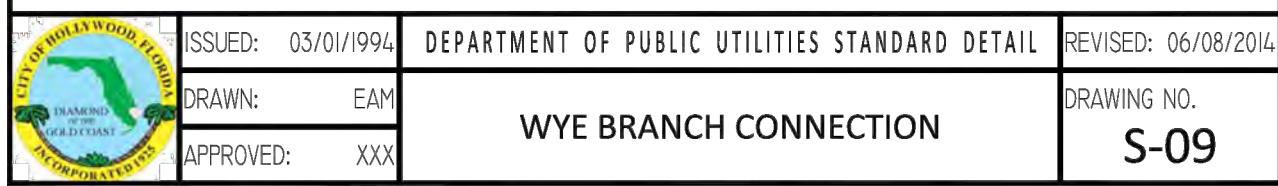
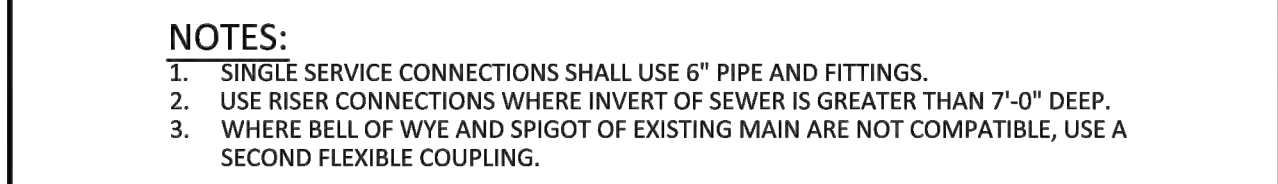
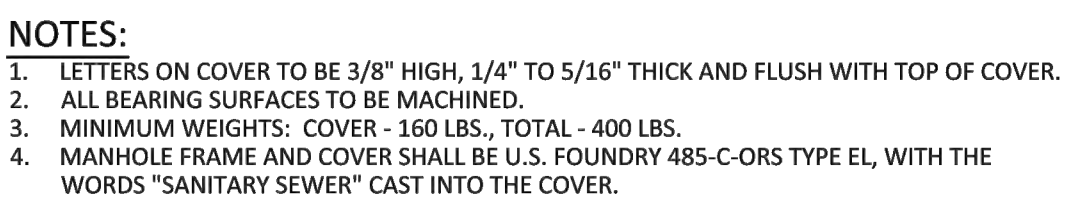
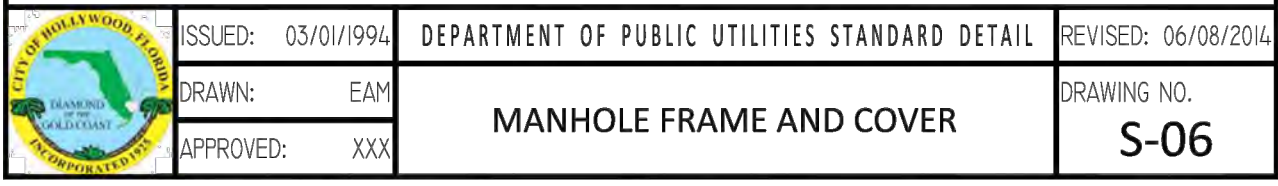
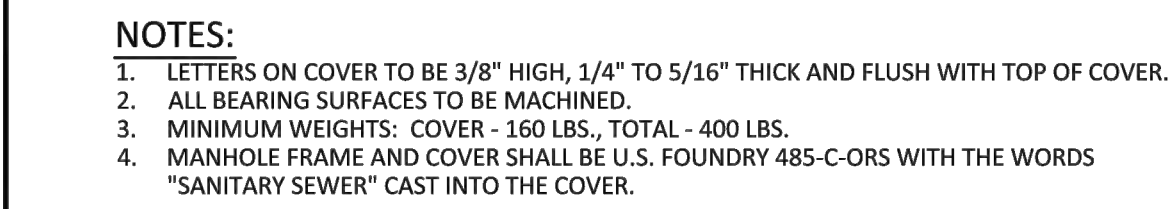
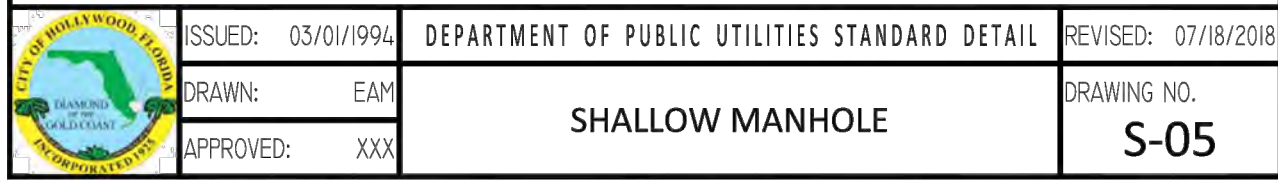
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147507129	8/25/2025	AS SHOWN	SHB	SHB	GDW

THIS TEXT HAS BEEN DIGITALLY SIGNED AND SEALED BY GREGORY D. WILFONG, P.E. ON THE DATE ADJACENT TO THE SEAL. SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

REVISIONS	DATE
No.	
8/22/2025	SHB
CITY OF HOLLYWOOD PLANNING REVISIONS	

Plotted By: Tyas, Denny - Sheet Set: OAKWOOD EAST MULTI FAMILY PROJECT - Layout: C-452 UTILITY PLAN DETAILS - August 25, 2025 - 12:40:26pm - K:\VRB-LDE\VL47507129 - Oakwood East Towers CAD\PlanSheets\C-450 UTILITY DETAILS.dwg
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Plotted By: Tracy, Dandy, Sheet Set: OAKWOOD EAST MULTI FAMILY PROJECT Layout: C-454 UTILITY PLAN DETAILS August 25, 2025 12:40:37pm K:\WEB_LDEV\147507129 - Oakwood East Towers CAD\Plan Sheets\C-450 UTILITY DETAILS.dwg

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WATER SYSTEM NOTES:

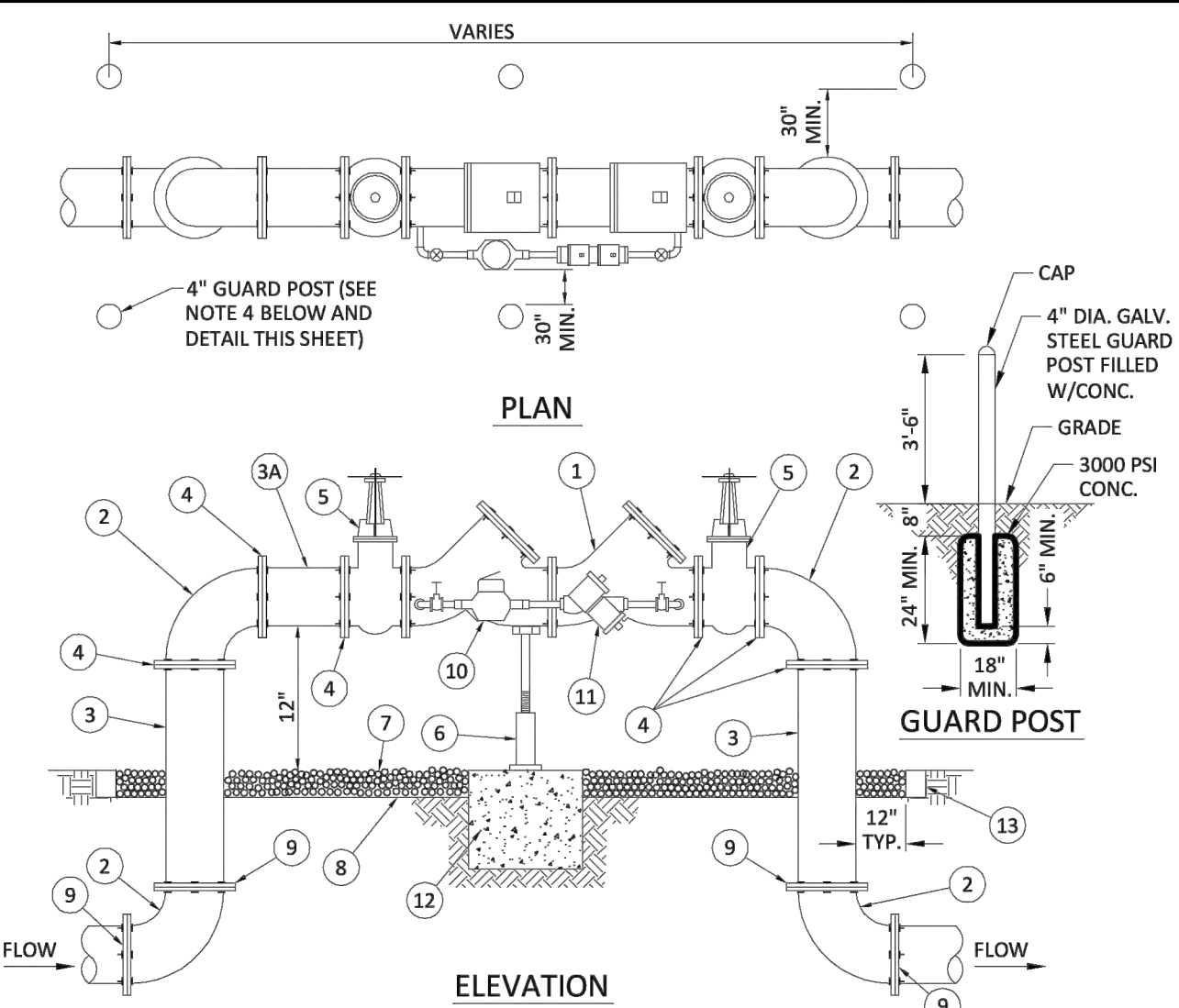
- NEW OR RELOCATED UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT THAT WILL CROSS ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE THE OTHER PIPELINE OR AT LEAST 12 INCHES BELOW THE OTHER PIPELINE.
- NEW OR RELOCATED UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT THAT WILL CROSS ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER WILL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OTHER PIPELINE. [FAC 62-555.314(2); EXCEPTIONS ALLOWED UNDER FAC 62-555.314(5)].
- AT ALL UTILITY CROSSINGS DESCRIBED ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE WILL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE, OR THE PIPES WILL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORM WATER 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. [FAC 62-555.314(2); EXCEPTIONS ALLOWED UNDER FAC 62-555.314(5)].
- NEW UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT TO BE DUCTILE IRON PIPE (D.I.P.) WHEN CROSSING BELOW SANITARY SEWER MAINS.
- POLYETHYLENE ENCASEMENT MATERIAL SHALL BE USED TO ENCASE ALL BURIED DUCTILE IRON PIPE, FITTINGS, VALVES, RODS, AND APPURTENANCES IN ACCORDANCE WITH AWWA C105, METHOD A. THE POLYETHYLENE TUBING SHALL BE CUT TWO FEET LONGER THAN THE PIPE SECTION AND SHALL OVERLAP THE ENDS OF THE PIPE BY ONE FOOT. THE POLYETHYLENE TUBING SHALL BE GATHERED AND LAPPED TO PROVIDE A SNUG FIT AND SHALL BE SECURED AT QUARTER POINTS WITH POLYETHYLENE TAPE. EACH END OF THE POLYETHYLENE TUBING SHALL BE SECURED WITH A WRAP OF POLYETHYLENE TAPE.
- THE POLYETHYLENE TUBING SHALL PREVENT CONTACT BETWEEN THE PIPE AND BEDDING MATERIAL, BUT IS NOT INTENDED TO BE A COMPLETELY AIRTIGHT AND WATERTIGHT ENCLOSURE. DAMAGED POLYETHYLENE TUBING SHALL BE REPAIRED IN A WORKMANLIKE MANNER USING POLYETHYLENE TAPE, OR THE DAMAGED SECTION SHALL BE REPLACED. POLY WRAP WILL NOT BE PAID FOR AS A SEPARATE BID ITEM. IT SHALL BE CONSIDERED TO BE A PART OF THE PRICE BID FOR WATER MAINS.
- FIRE HYDRANT BARRELS SHALL BE ENCASED IN POLY WRAP UP TO THE GROUND SURFACE AND THE WEEP HOLES SHALL NOT BE COVERED BY THE POLY WRAP.
- GATE VALVES FOR USE WITH PIPE LESS THAN THREE INCHES (3") IN DIAMETER SHALL BE RATED FOR TWO HUNDRED (200) PSI WORKING PRESSURE, NON-SHOCK, BLOCK PATTERN, SCREWED BONNET, NON-RISING STEM, BRASS BODY, AND SOLID WEDGE. THEY SHALL BE STANDARD THREADED FOR PVC PIPE AND HAVE A MALLEABLE IRON HANDWHEEL. GATE VALVES 3" THROUGH 16" IN DIAMETER SHALL BE RESILIENT SEAT AND BIDIRECTIONAL FLOW ONLY. VALVES FOR SPECIAL APPLICATIONS WILL REQUIRE CITY UTILITY APPROVAL.
- VALVE BOXES AND COVERS FOR ALL SIZE VALVES SHALL BE OF CAST IRON CONSTRUCTION AND ADJUSTABLE SCREW-ON TYPE. THE LID SHALL HAVE CAST IN THE METAL THE WORD "WATER" FOR THE WATER LINES. ALL VALVE BOXES SHALL BE SIX INCH (6") NOMINAL DIAMETER AND SHALL BE SUITABLE FOR DEPTHS OF THE PARTICULAR VALVE. THE STEM OF THE BURIED VALVE SHALL BE WITHIN TWENTY-FOUR INCHES (24") OF THE FINISHED GRADE UNLESS OTHERWISE APPROVED BY THE CITY.
- ALL WATER MAIN INSTALLATIONS SHALL COMPLY WITH THE COLOR CODING REQUIREMENTS OF CHAPTER 62-555.320 F.A.C.

	ISSUED: 03/01/1994 DRAWN: EAM APPROVED: XXX	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL WATER SYSTEM NOTES	REVISED: 06/08/2014 DRAWING NO. W-01
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WATER SYSTEM NOTES (CONTINUED):

- ALL WATER MAIN INSTALLATIONS SHALL COMPLY WITH THE COLOR CODING REQUIREMENTS OF CHAPTER 62-555.320 F.A.C.
- ALL PVC PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI/AWWA C900 LATEST REVISION AND CLASS DR 18. ALL DIP WATER MAINS SHALL BE DUCTILE IRON PRESSURE CLASS 350, WITH WALL THICKNESS COMPLYING WITH CLASS 52. ANY IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANSI/AWWA C151/A21.51-02 AND BE CEMENT UNED AND SEAL COATED PER ANSI/AWWA C104/A21.4-03.
- FITTINGS SHALL BE DUCTILE IRON, MEETING ANSI/AWWA C153/A21.53-00 SPECIFICATIONS, WITH 350 PSI MINIMUM WORKING PRESSURE. FITTINGS MUST BE CEMENT LINED AND SEAL COATED PER ANSI/AWWA C104/A21.4-03. ALL DUCTILE IRON PIPE AND FITTINGS MUST BE MANUFACTURED IN THE UNITED STATES OF AMERICA.
- ALL DUCTILE IRON PIPE TO BE MECHANICAL JOINTS, WRAPPED IN POLY. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED AS DETERMINED BY DESIGN.
- PAVEMENT RESTORATION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY.
- ALL TRENCHING, PIPE LAYING, BACKFILL, PRESSURE TESTING, AND DISINFECTING MUST COMPLY WITH THE CITY OF HOLLYWOOD SPECIFICATIONS.
- THE MINIMUM DEPTH OF COVER OVER WATER MAINS IS 30" (DIP) OR 36" (PVC).
- MINIMUM HORIZONTAL SEPARATION BETWEEN STORM STRUCTURES AND WATER MAINS SHALL BE 3'.
- MAXIMUM DEFLECTION PER EACH JOINT SHALL BE 50% OF MANUFACTURES RECOMMENDATION (MAXIMUM) WHERE DEFLECTION IS REQUIRED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING CONFLICTS WITH WATER MAINS PLACED AT MINIMUM COVER. IN CASE OF CONFLICT, WATER MAIN SHALL BE LOWERED TO PASS UNDER CONFLICTS WITH 18" MINIMUM VERTICAL SEPARATION. NO ADDITIONAL PAYMENT SHALL BE DUE TO CONTRACTOR FOR LOWERING THE MAIN OR THE ADDITIONAL FITTINGS USED THEREON.
- PIPE JOINT RESTRAINT SHALL BE PROVIDED BY THE USE OF DUCTILE IRON FOLLOWER GLANDS MANUFACTURED TO ASTM A 536-80. TWIST-OFF NUTS SHALL BE USED TO ENSURE PROPER ACTUATING OF THE RESTRAINING DEVICES. THE MECHANICAL JOINT RESTRAINING DEVICES SHALL HAVE A WORKING PRESSURE OF 250 PSI MINIMUM, WITH A MINIMUM SAFETY FACTOR OF 2:1, AND SHALL BE EBAA IRON INC., MEGALUG OR APPROVED EQUAL. JOINT RESTRAINTS SHALL BE PROVIDED AT A MINIMUM OF THREE JOINTS (60 FEET) FROM ANY FITTING.
- WHENEVER IT IS NECESSARY, IN THE INTEREST OF SAFETY, TO BRACE THE SIDES OF A TRENCH, THE CONTRACTOR SHALL FURNISH, PUT IN PLACE AND MAINTAIN SUCH SHEETING OR BRACING AS MAY BE NECESSARY TO SUPPORT THE SIDES OF THE EXCAVATION TO ENSURE PERSONNEL SAFETY, AND TO PREVENT MOVEMENT WHICH CAN IN ANY WAY DAMAGE THE WORK OR ENDANGER ADJACENT STRUCTURES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SEQUENCE, METHODS AND MEANS OF CONSTRUCTION, AND FOR THE IMPLEMENTATION OF ALL OSHA AND OTHER SAFETY REQUIREMENTS.

	ISSUED: 03/01/1994 DRAWN: EAM APPROVED: XXX	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL WATER SYSTEM NOTES	REVISED: 06/08/2014 DRAWING NO. W-02
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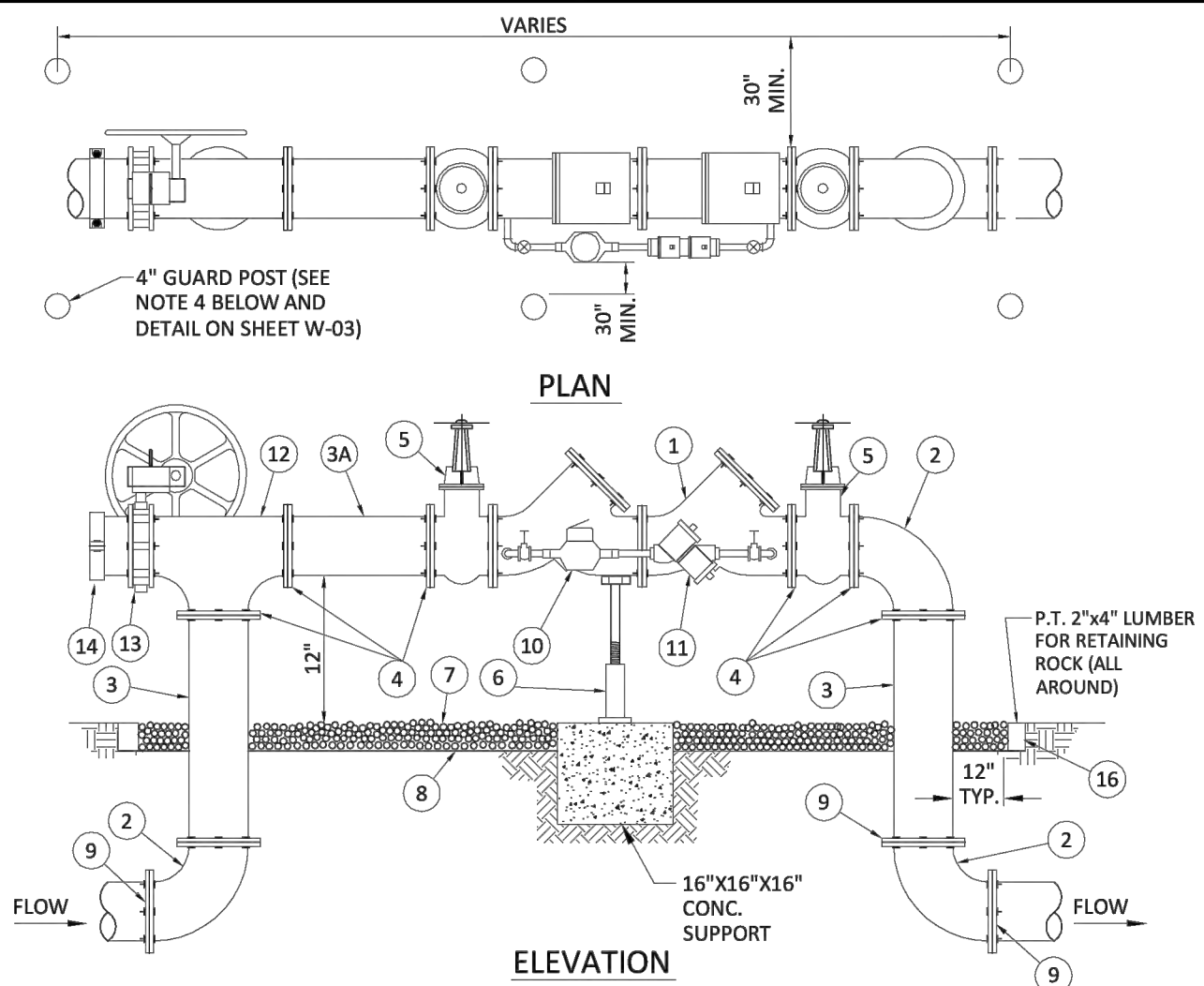


MATERIALS				MATERIALS			
ITEM	QTY.	DESCRIPTION	ITEM	QTY.	DESCRIPTION	ITEM	QTY.
1	1	4", 6", 8" VALVE, DOUBLE CHECK	7	N/A	PEA GRAVEL (4" DEEP)	10	1
2	4	4", 6", 8" BEND-90°	8	N/A	PLASTIC LINER/WEED STOP (5 MILS)	11	1
3	2	4", 6", 8" D.I.P. SPOOL PIECE	9	4	RESTRAINED JOINTS	12	1
3A	1	4", 6", 8" D.I.P. SPOOL PIECE (24" LONG)	10	1	LOW FLOW METER	13	1
4	7	4", 6", 8" FLANGE, D.I.P.	11	1	VALVE, BYPASS DOUBLE CHECK	14	1
5	2	4", 6", 8" GATE VALVE (SEE NOTE 6)	12	1	P.T. 2x4 LUMBER ALL AROUND		
6	1	SCREW JACK/ANCHORED	13	1			

NOTES:

- FIELD ADJUST AND CUT ITEM 3 TO THE PROPER LENGTH.
- ALL PIPING SHALL BE D.I.P. CL 50/52 AS APPLICABLE TO MINIMUM STANDARDS.
- ALL LOW FLOW METER PIPING SHALL BE BRASS OR COPPER.
- PROTECTIVE 4" GALV. GUARD POSTS SHALL BE SPACED EVENLY APART AS SHOWN ABOVE OR IN ACCORDANCE WITH INSPECTOR'S DIRECTIONS.
- MAY USE 45° BENDS (SEE DETAIL W-07.2) WHEN WORKING AREA IS NOT LIMITED, AS DIRECTED BY CITY.
- GATE VALVES SHALL BE CHAINED AND LOCKED TOGETHER TO PREVENT TAMPERING.

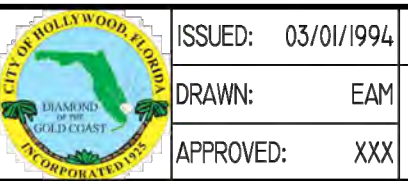
	ISSUED: 03/01/1994 DRAWN: EAM APPROVED: XXX	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL TYPICAL 4", 6" AND 8" DOUBLE CHECK DETECTOR ASSEMBLY FOR FIRE SPRINKLER SERVICE (90° BENDS)	REVISED: 06/08/2014 DRAWING NO. W-03
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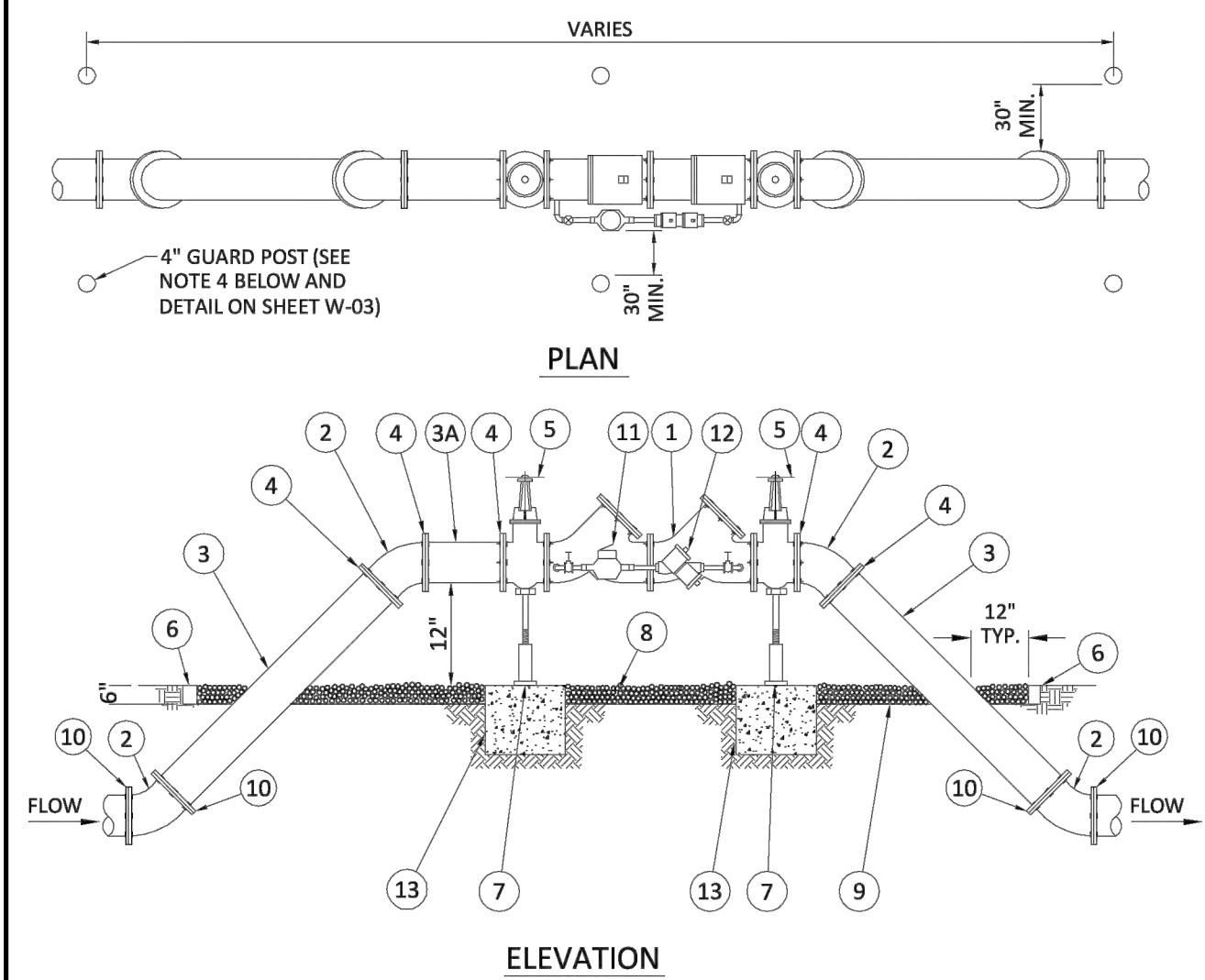


MATERIALS				MATERIALS			
ITEM	QTY.	DESCRIPTION	ITEM	QTY.	DESCRIPTION	ITEM	QTY.
1	1	4", 6", 8" VALVE, DOUBLE CHECK	8	N/A	PLASTIC LINER/WEED STOP (5 MILS)	10	1
2	4	4", 6", 8" BEND-90°	9	4	RESTRAINED JOINTS	11	1
3	2	4", 6", 8" D.I.P. SPOOL PIECE	10	1	LOW FLOW METER	12	1
3A	1	4", 6", 8" D.I.P. SPOOL PIECE (24" LONG)	11	1	VALVE, BYPASS DOUBLE CHECK	13	1
4	10	4", 6", 8" FLANGE, D.I.P.	12	1	4", 6", 8" TEE	14	1
5	2	4", 6", 8" GATE VALVE (SEE NOTE 6)	13	1	4", 6", 8" BUTTERFLY VALVE (SUPERVISED CLOSED), CHAINED AND LOCKED		
6	1	SCREW JACK/ANCHORED	14	1	4", 6", 8" CAP		
7	N/A	PEA GRAVEL (4" DEEP)					

NOTES:

- FIELD ADJUST AND CUT ITEM 3 TO THE PROPER LENGTH.
- ALL PIPING SHALL BE D.I.P. CL 50/52 AS APPLICABLE TO MINIMUM STANDARDS.
- ALL LOW FLOW METER PIPING SHALL BE BRASS OR COPPER.
- PROTECTIVE 4" GALV. GUARD POSTS SHALL BE SPACED EVENLY APART AS SHOWN ABOVE OR IN ACCORDANCE WITH INSPECTOR'S DIRECTIONS.
- MAY USE 45° BENDS (SEE DETAIL W-05) WHEN WORKING AREA IS NOT LIMITED, AS DIRECTED BY CITY.
- GATE VALVES SHALL BE CHAINED AND LOCKED TOGETHER TO PREVENT TAMPERING.

	ISSUED: 03/01/1994 DRAWN: EAM APPROVED: XXX	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL TYPICAL 4", 6" AND 8" DOUBLE CHECK DETECTOR FOR FIRE SPRINKLER SERVICE W/B.V. CONNECTION (90° BENDS)	REVISED: 06/08/2014 DRAWING NO. W-04
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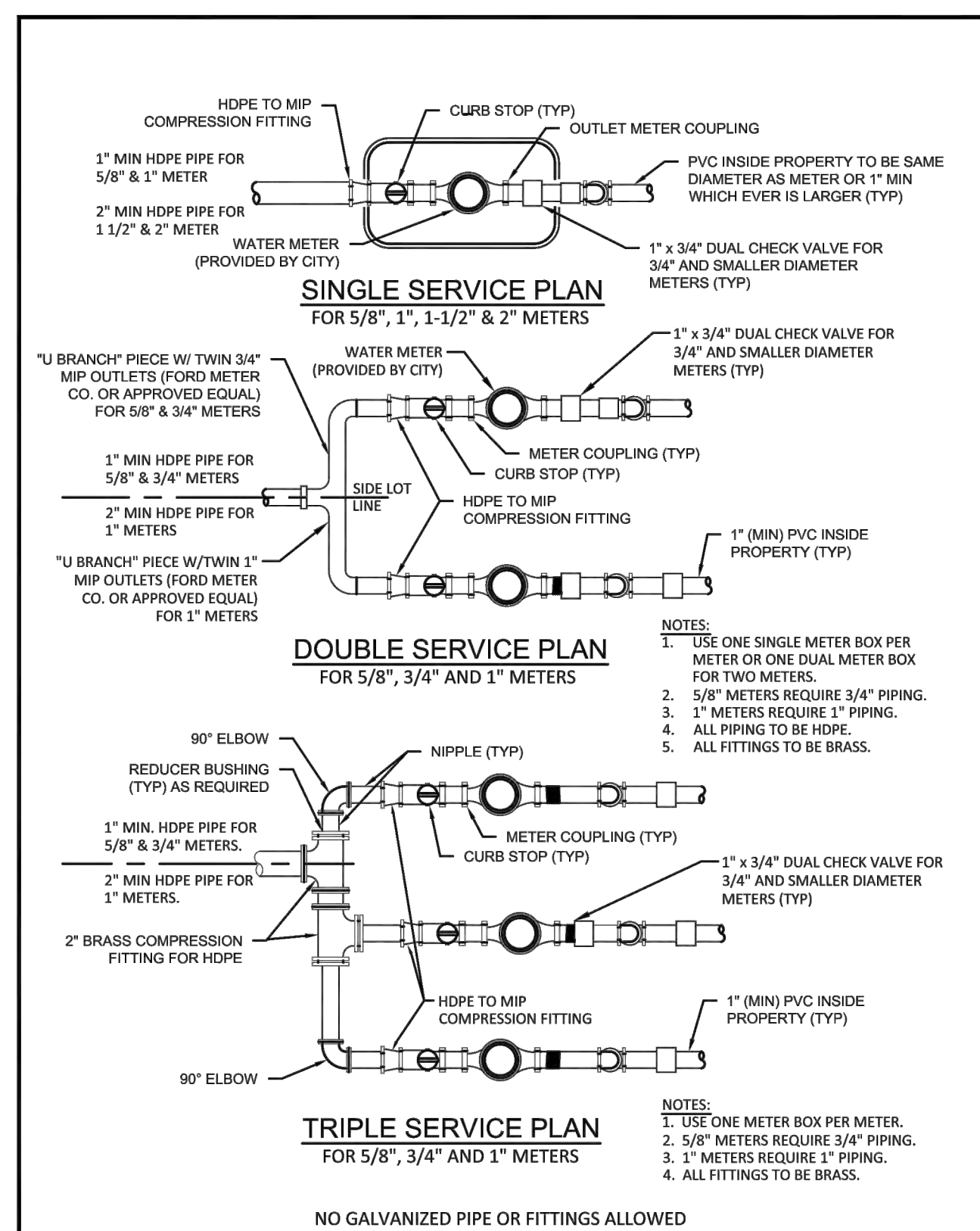


MATERIALS				MATERIALS			
ITEM	QTY.	DESCRIPTION	ITEM	QTY.	DESCRIPTION	ITEM	QTY.
1	1	4", 6", 8" VALVE, DOUBLE CHECK	7	2	SCREW JACK/ANCHORED	10	1
2	4	4", 6", 8" BEND-45°	8	N/A	PEA GRAVEL (4" DEEP)	11	1
3	2	4", 6", 8" D.I.P. SPOOL PIECE	9	N/A	PLASTIC LINER/WEED STOP (5 MILS)	12	1
3A	1	4", 6", 8" D.I.P. SPOOL PIECE (24" LONG)	10	4	RESTRAINED JOINTS	13	1
4	7	4", 6", 8" FLANGE, D.I.P.	11	1	LOW FLOW METER	14	1
5	2	4", 6", 8" GATE VALVE (SEE NOTE 6)	12	1	VALVE, BYPASS DOUBLE CHECK		
6	2	P.T. 2"x4" LUMBER (ALL AROUND)	13	1	16"x16"x16" CONC. SUPPORT		

NOTES:

- FIELD ADJUST AND CUT ITEM 3 TO THE PROPER LENGTH.
- ALL PIPING SHALL BE D.I.P. CL 50/52 AS APPLICABLE TO MINIMUM STANDARDS.
- ALL LOW FLOW METER PIPING SHALL BE BRASS OR COPPER.
- PROTECTIVE 4" GALV. GUARD POSTS SHALL BE SPACED EVENLY APART AS SHOWN ABOVE OR IN ACCORDANCE WITH INSPECTOR'S DIRECTIONS.
- MAY USE 90° BENDS (SEE DETAIL W-03) WHEN WORKING AREA IS LIMITED.
- GATE VALVES SHALL BE CHAINED AND LOCKED TOGETHER TO PREVENT TAMPERING.

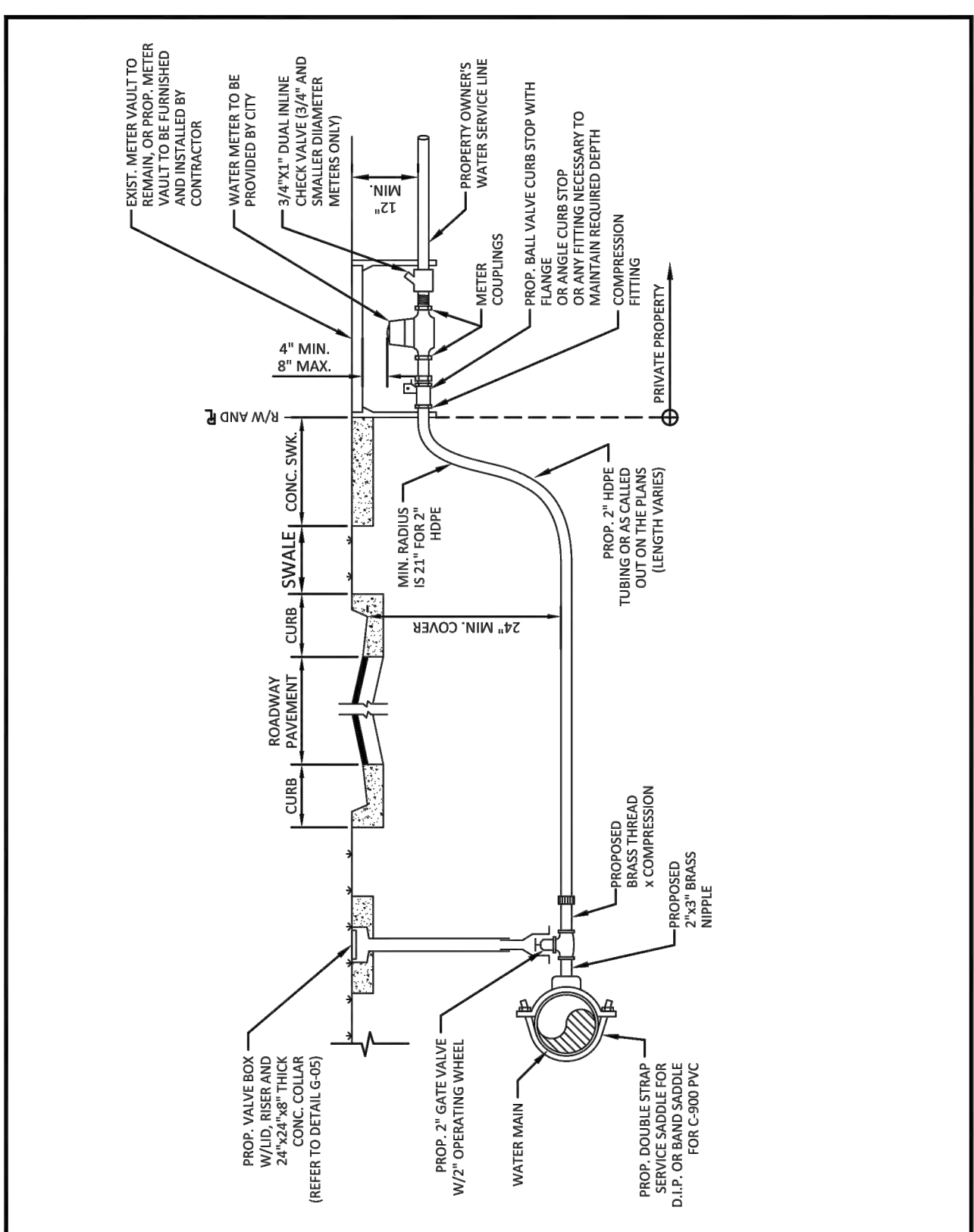
	ISSUED: 03/01/1994 DRAWN: EAM APPROVED: XXX	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL TYPICAL 4", 6" AND 8" DOUBLE CHECK DETECTOR ASSEMBLY FOR FIRE SPRINKLER SERVICE (45° BENDS)	REVISED: 06/08/2014 DRAWING NO. W-05
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	ISSUED: 03/01/1994 DRAWN: EAM APPROVED: XXX	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL TYPICAL 5/8", 1", 1-1/2" AND 2" METER INSTALLATION	REVISED: 11/06/2017 DRAWING NO. W-06
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- WATER METER SERVICE NOTES:
- SUCCESSIVE TAPS INTO THE WATER MAIN SHALL BE SPACED NOT LESS THAN 18" ON CENTER.
 - P.E. TUBING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AWWA STANDARD C901, "POLYETHYLENE (PE) PRESSURE PIPE AND TUBING, 1/2 IN. (13mm) THROUGH 3 IN. (76 mm), FOR WATER SERVICE".
 - MINIMUM SERVICE PIPE DIAMETER SHALL BE 1" FOR SINGLE OR DUAL 3/8" OR SINGLE 1" DIAMETER METERS.
 - MINIMUM SERVICE PIPE DIAMETER SHALL BE 2" FOR SINGLE OR DUAL 1-3/8" OR SINGLE 2" DIAMETER METERS.
 - FOR METER DIAMETERS LARGER THAN 2", THE MINIMUM SERVICE PIPE DIAMETER SHALL BE THE SAME AS THE METER DIAMETER.
 - APPROVED COPPER TUBING MAY BE USED AT THE CITY'S DISCRETION.
 - FOR NEW METER INSTALLATIONS, ALL SADDLES, VALVES, PIPING, FITTINGS, CURB STOPS, METER VALVES, METER COUPLINGS, METER VAULTS AND COVERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THE WATER METERS WILL BE PROVIDED AND INSTALLED BY THE CITY OF HOLLYWOOD (NEW ACCOUNTS).
 - FOR METER RELOCATIONS, ALL SADDLES, VALVES, PIPING, FITTINGS, CURB STOPS, METER VALVES, METER COUPLINGS, METER VAULTS AND COVERS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. THE EXISTING WATER METER TO BE RELOCATED AND INSTALLED BY CONTRACTOR.
 - FOR EXISTING METERS ABUTTING THE RIGHT-OF-WAY THAT ARE BEING DISCONNECTED FROM EXISTING MAINS AND RECONNECTED TO NEW MAINS, THE CONTRACTOR SHALL:
 - CUT AND PLUG THE EXISTING SERVICE LINE AT THE MAIN AND AT THE METER, AND REMOVE THE EXISTING BALL VALVE CURB STOP.
 - FURNISH AND INSTALL SERVICE SADDLE, CORPORATION STOP OR SERVICE VALVE AND VALVE BOX, PIPING AND FITTINGS UP TO AND INCLUDING THE BALL VALVE CURB STOP.
 - THE ELEVATION AT THE TOP OF THE METER BOX SHALL MATCH THE ELEVATION OF THE BACK OF THE SIDEWALK, WHENEVER PRACTICAL.
 - AS PART OF THE SERVICE INSTALLATION, THE CONTRACTOR SHALL RESTORE THE RIGHT-OF-WAY TO MATCH EXISTING CONDITIONS, INCLUDING ROADWAY PAVEMENT, PAVEMENT MARKINGS AND RPMs, CONCRETE CURBS, SIDEWALKS, RAMPS (INCLUDING DETECTABLE WARNING SURFACE), SODDING, AND ALL OTHER IMPROVEMENTS REMOVED OR DAMAGED DURING THE SERVICE INSTALLATION.
 - FOR UNPAVED AREAS, THE MINIMUM GROUND COVER ACCEPTED BY THE CITY IS SODDING.

	ISSUED: 03/01/1994 DRAWN: EAM APPROVED: XXX	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL WATER METER SERVICE NOTES FOR 5/8" THROUGH 2" METERS	REVISED: 11/06/2017 DRAWING NO. W-07
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	ISSUED: 03/01/1994 DRAWN: EAM APPROVED: XXX	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL TYPICAL 2-INCH HDPE WATER SERVICE FOR SINGLE/DUAL 5/8" TO 1" METERS, AND ANY SINGLE 1-1/2" TO 2" METERS	REVISED: 11/06/2017 DRAWING NO. W-09
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UTILITY PLAN DETAILS

OAKWOOD EAST MULTI FAMILY PROJECT

SHEET NUMBER
C-454

Kimley»Horn

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REGISTRY NO. 35106

GREGORY D. WILFONG
No. 63166
STATE OF FLORIDA
PROFESSIONAL ENGINEER

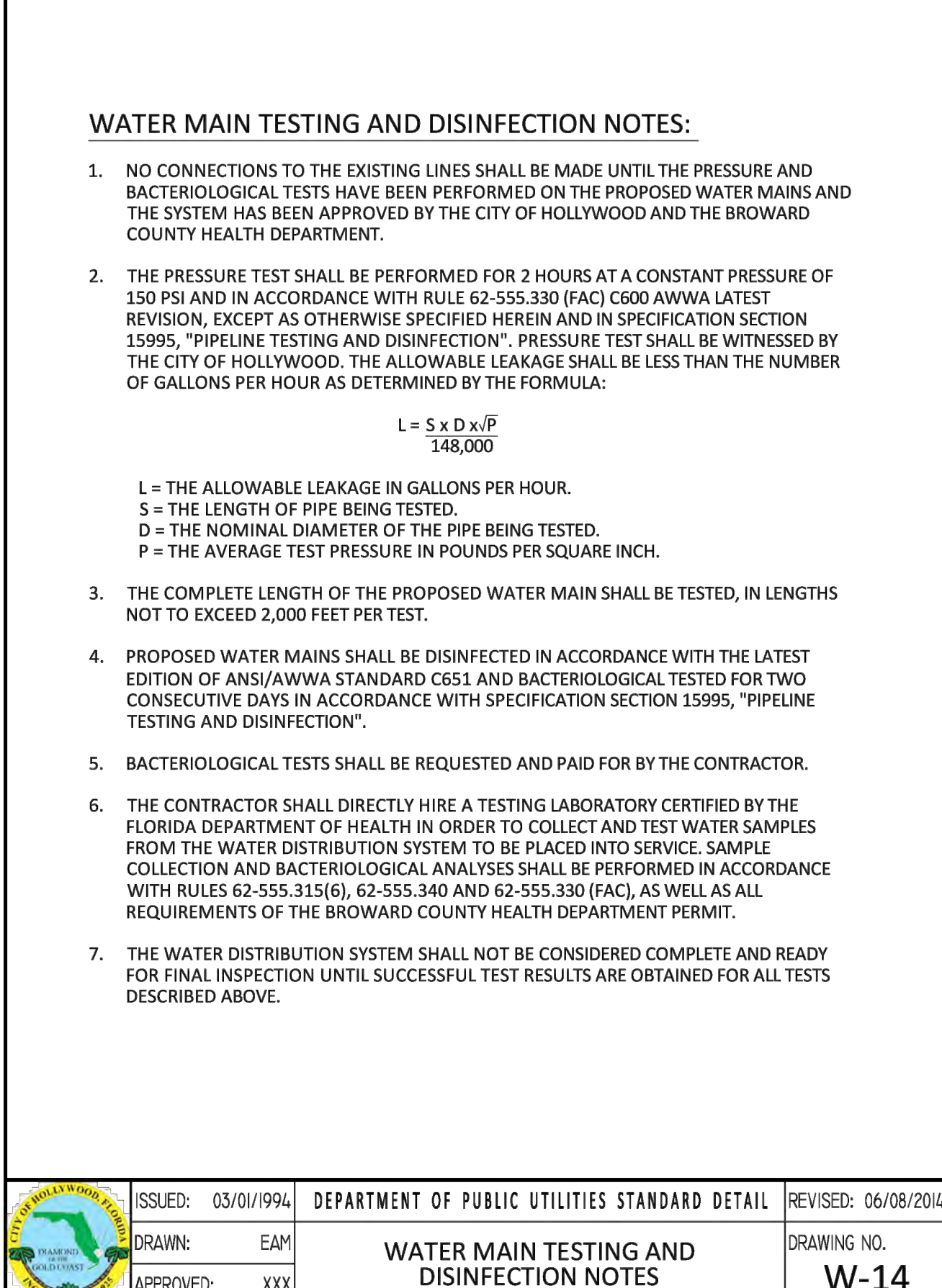
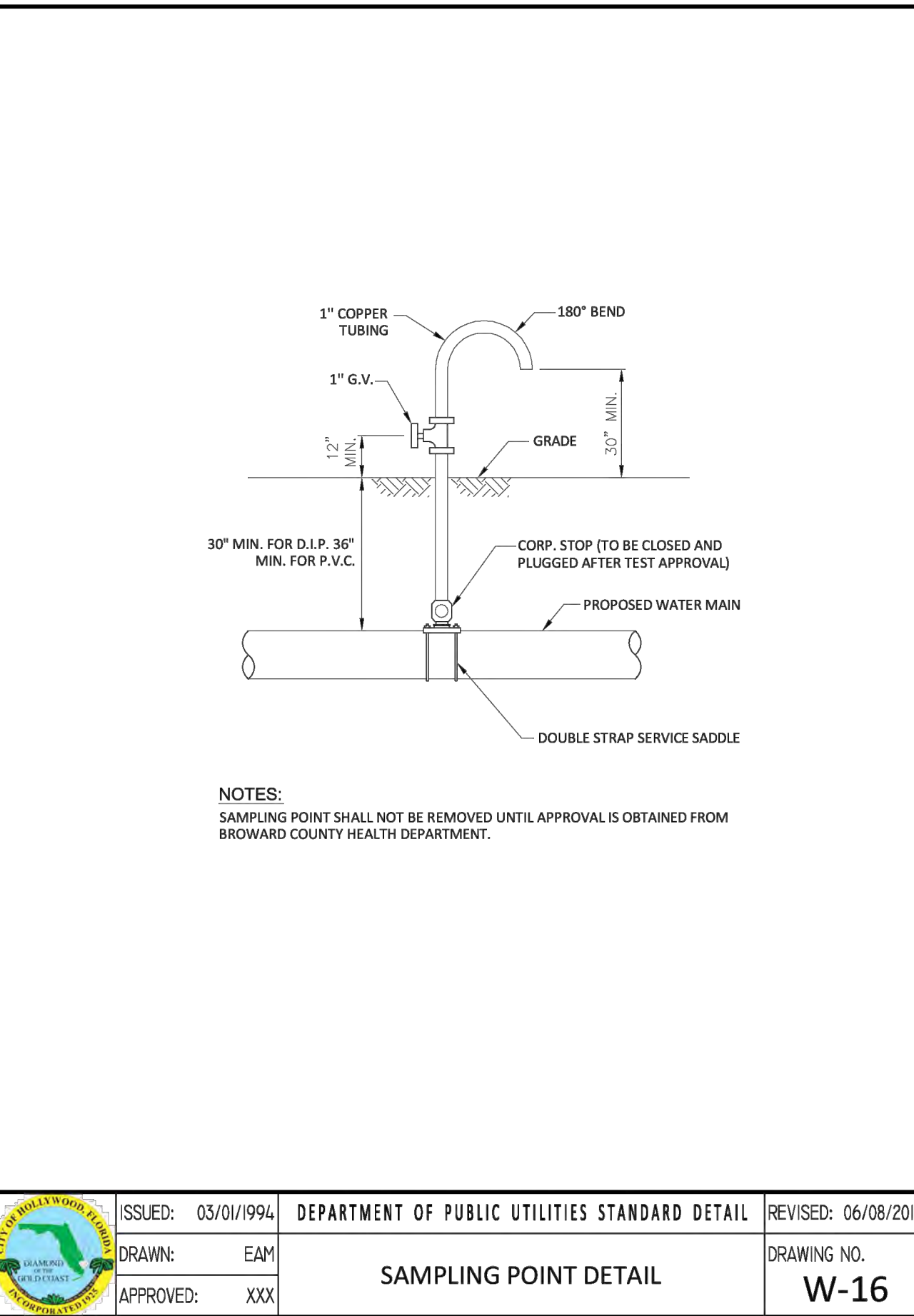
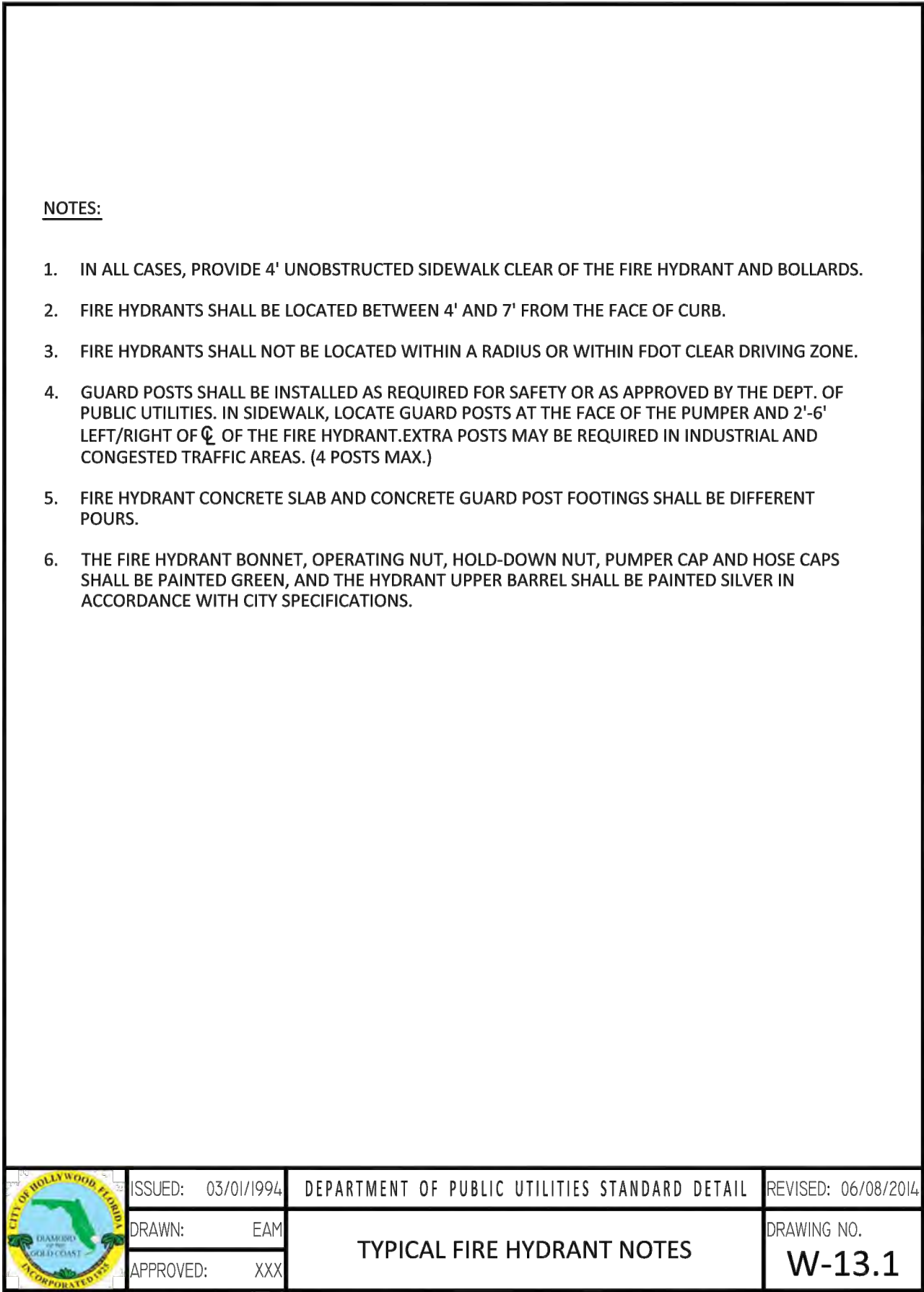
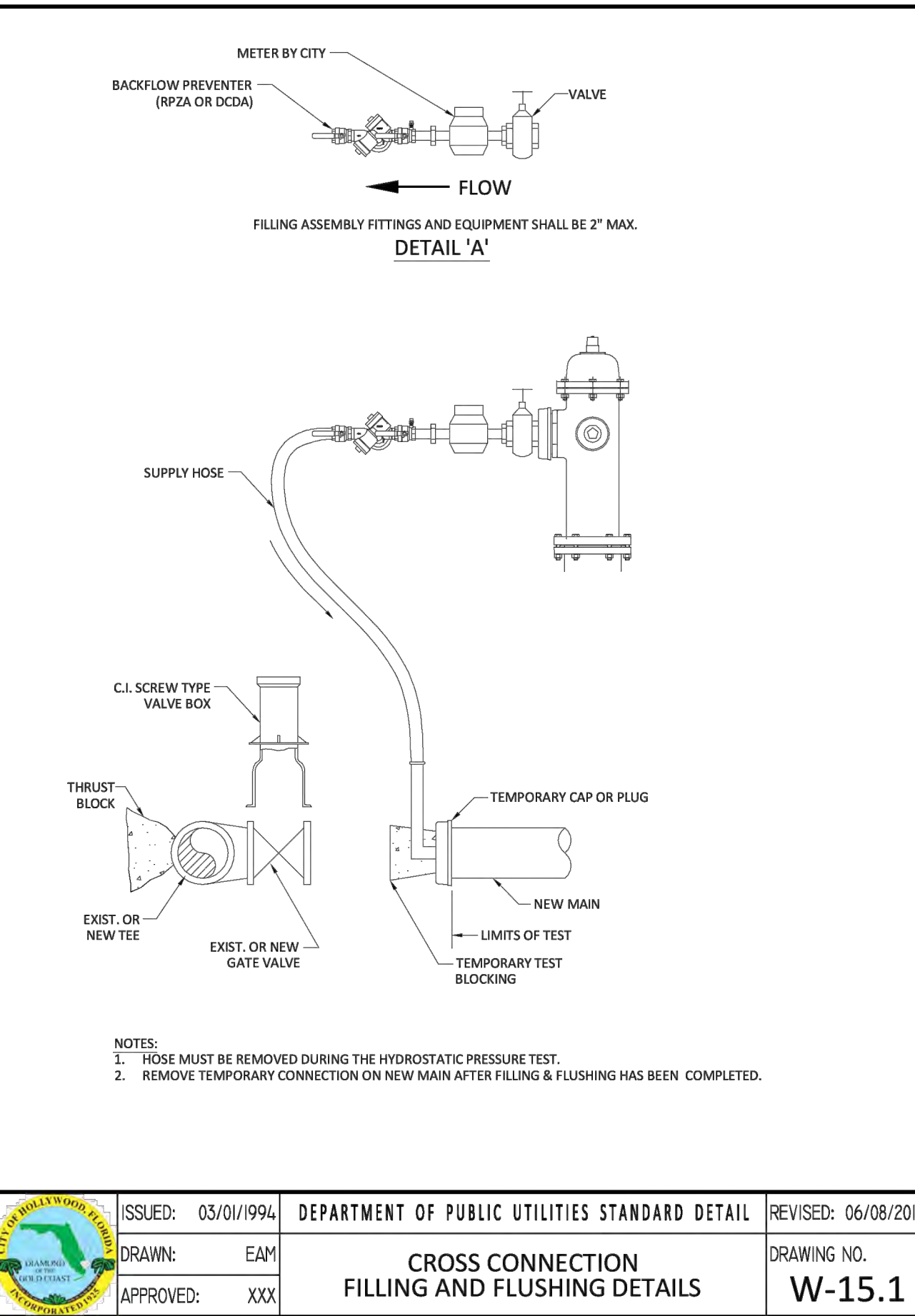
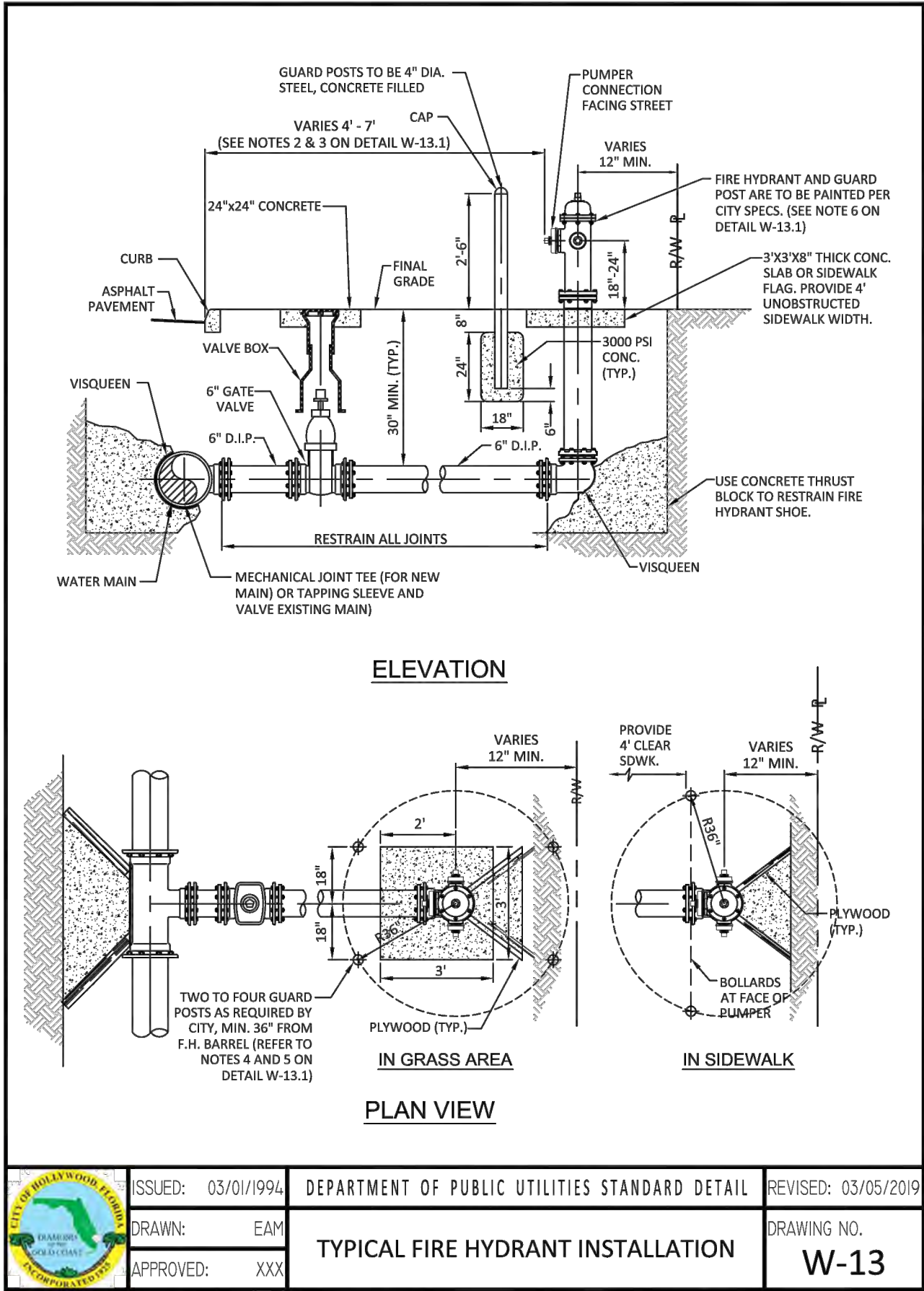
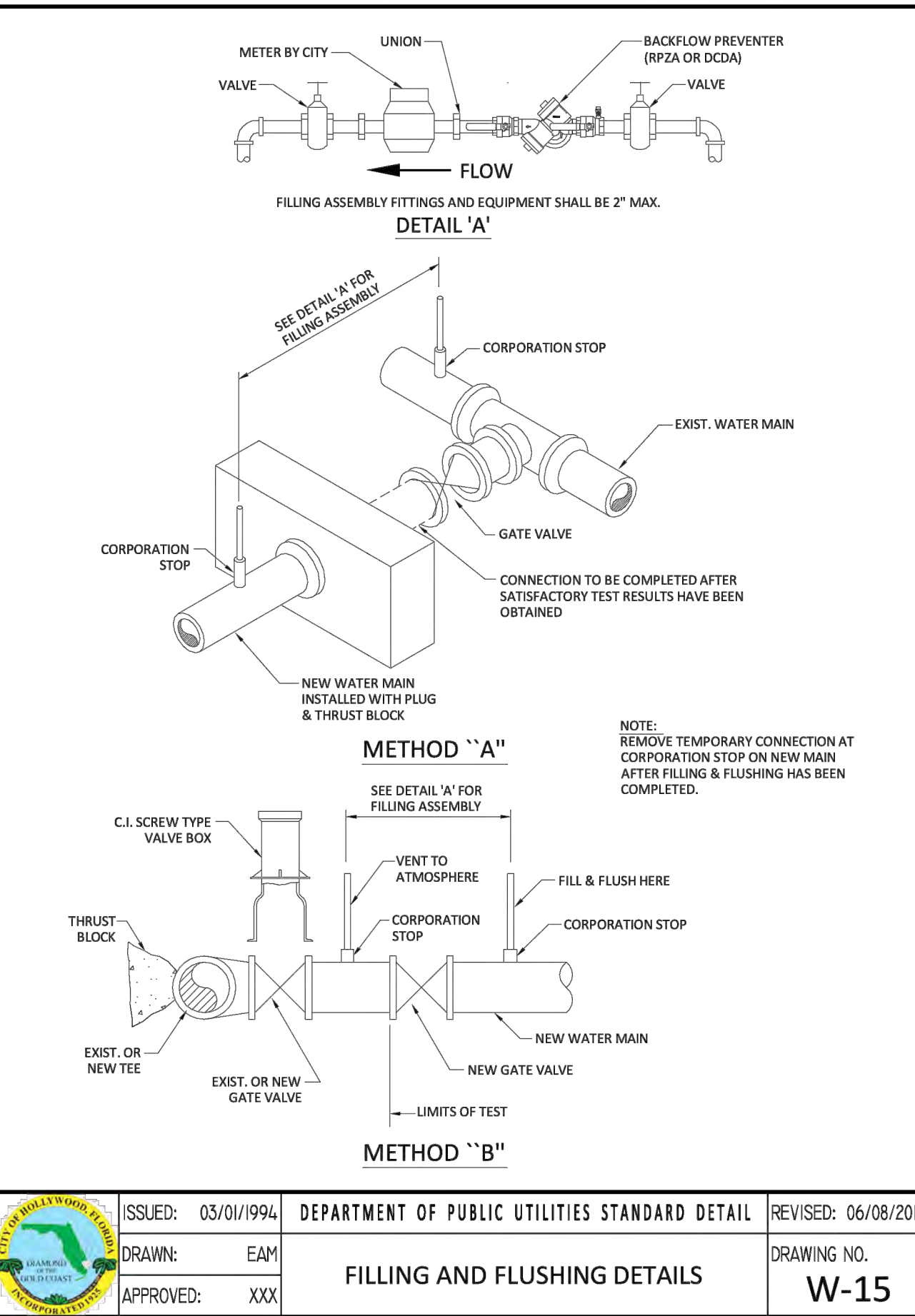
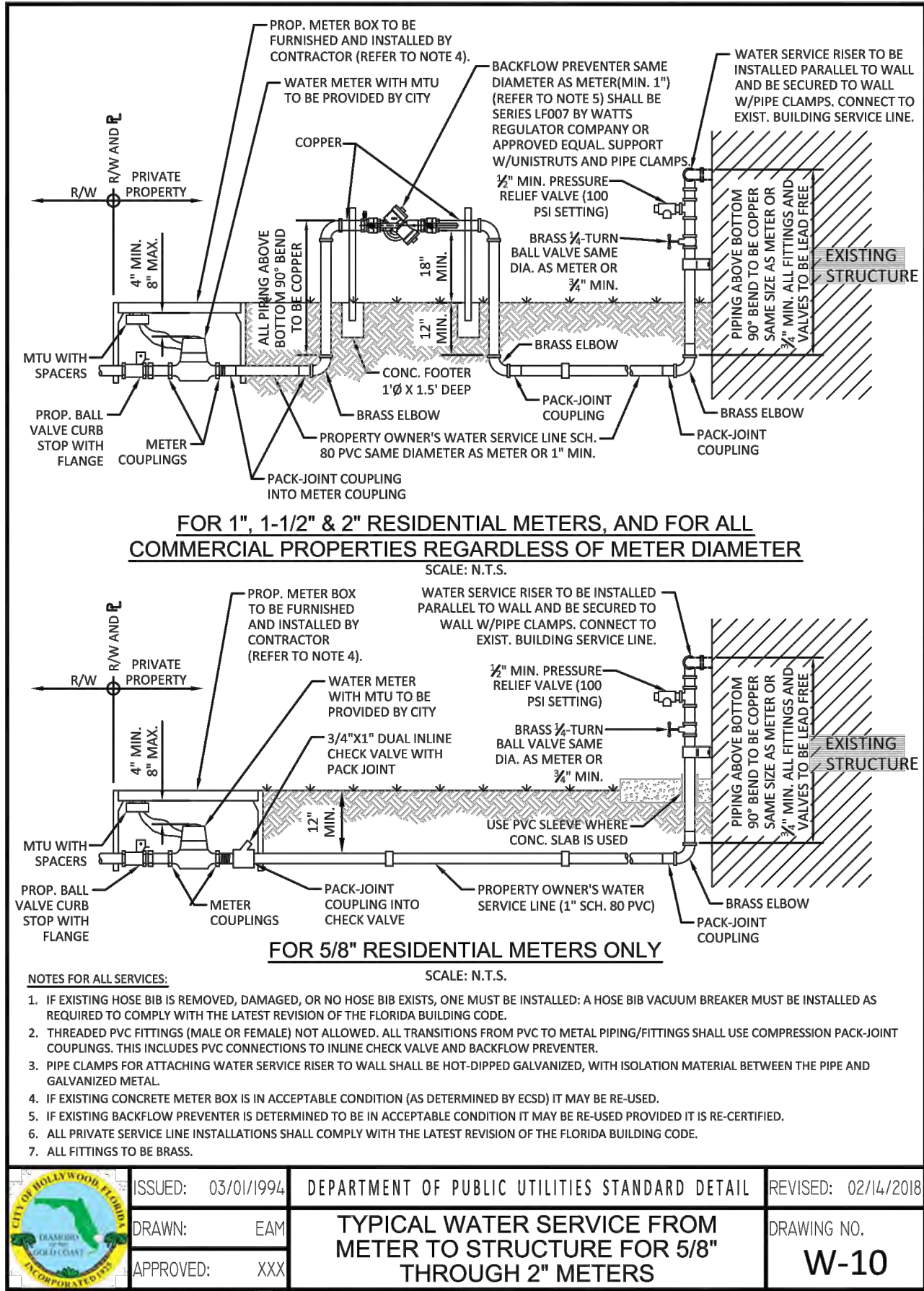
KHA PROJECT
147507129
DATE
8/25/2025
SCALE
AS SHOWN
DESIGNED BY
SHB
DRAWN BY
SHB
CHECKED BY
GDW

CITY OF HOLLYWOOD

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY GREGORY D. WILFONG, LICENSED PROFESSIONAL ENGINEER, NO. 63166, STATE OF FLORIDA. THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

Plotted By: Tracy, Danny, Sheet Set: OAKWOOD EAST MULTI FAMILY PROJECT - Layout: C-455 UTILITY PLAN DETAILS August 25, 2025 12:40:42pm K:\ARB_LDEV\147507129 - Oakwood East Towers\CAD\PlanSheets\C-455 UTILITY DETAILS.dwg

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KHA PROJECT 147507129		DATE 8/25/2025		SCALE AS SHOWN		DESIGNED BY SHB		DRAWN BY SHB		CHECKED BY GDW	
OAKWOOD EAST MULTI FAMILY PROJECT		CITY OF HOLLYWOOD		FL		UTILITY PLAN DETAILS		CITY OF HOLLYWOOD PLANNING REVISIONS		8/22/2025 SHB	
REVISIONS		No.		DATE		BY		REVISED		BY	

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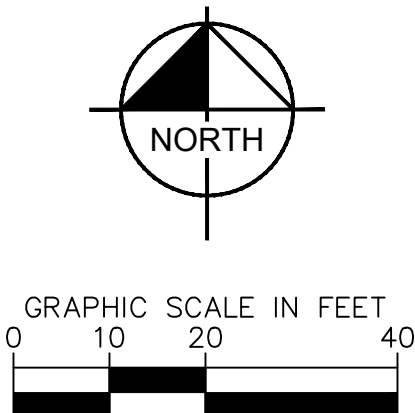
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8/25/2025

GREGORY D. WILSON
LICENSE NO. 63166
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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SHEET NUMBER
C-455



** Could not access trunk to record measurement

1. INFORMATION UTILIZED IN PREPARATION OF TREE DISPOSITION PLANS ASCERTAINED ARE FROM AND RELIANT UPON SITE OBSERVATIONS (LOCATION AND SPECIES IDENTIFICATION), AND 2024 GOOGLE IMAGERY (+/- CANOPY DIAMETER).
2. REFER TO SHEET L-100 FOR LANDSCAPE PLAN.
3. REFER TO SHEET L-300 FOR HARDSCAPE PLAN.

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SHEET NUMBER
L-000

No.	REVISIONS	DATE	BY
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