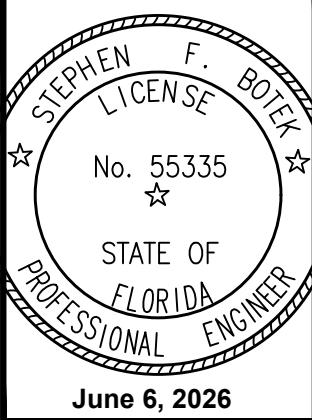


CROSS-SECTION LEGEND	
PROPERTY LINE	
EASEMENT / DEDICATION	
EXIST. GRADE	
PROP. CONCRETE	
PROP. ASPHALT	
PROP. PAVERS OR SPECIALTY CONCRETE	
PROP. PERVIOUS	

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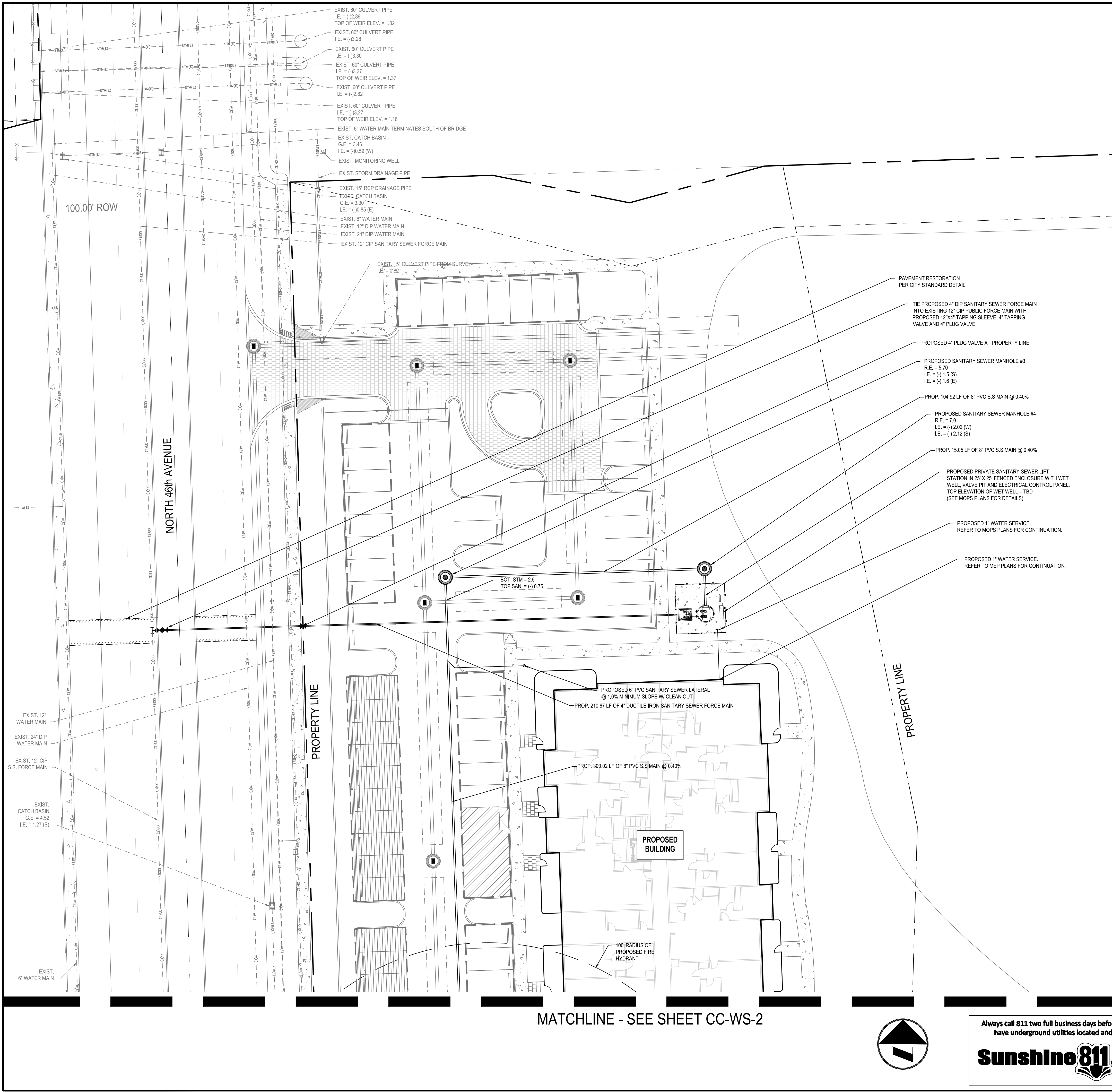
PAVING AND GRADING SECTIONS
EMERALD HILLS Site C - North 46th Avenue - East Hollywood, Florida

Botech Thurlow Engineering, Inc.
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BTE PROJECT #:
22-0401

PROJECT DATE:
6-5-2024

SHEET #:
CC-PG-10



- UNDERGROUND UTILITIES NOTES:**
1. SITE MAY CONTAIN EXISTING UTILITIES (DOMESTIC WATER, IRRIGATION, TELEPHONE, ELECTRIC, GAS, STORM DRAINAGE, SANITARY SEWER AND OTHERS).
 2. **NOT ALL** EXISTING UTILITIES ARE SHOWN HEREON. SOME ARE SHOWN ON THIS PLAN AS OBTAINED FROM UTILITY LOCATES, ATLAS AND THE SURVEY.
 3. ALL EXISTING UTILITIES WITHIN THE BOUNDARY OF THE SITE ARE TO BE REMOVED - EXCEPT WHERE NOTED OTHERWISE (SUCH AS "TO REMAIN" TO BE RELOCATED" ETC.). THIS PLAN IS LIMITED TO WATER AND SANITARY SEWER ONLY. NO DESIGN OF FPL, COMCAST, GAS, TELEPHONE IS SHOWN HEREON.
 4. CONTRACTOR IS RESPONSIBLE FOR SEQUENCING ALL UTILITY REMOVAL/RELOCATION SUCH THAT NO OTHER USER OF SAID IS AFFECTED.

FIRE FLOW TEST RESULTS:

FLOW TEST RESULTS
PERFORMED: 01/08/20
STATIC PRESSURE: 58 PSI
RESIDUAL PRESSURE: 52 PSI
FLOW RATE: 1030 GPM
RESULTANT FLOW @ 20 PSI: 3275 GPM

FIRE FLOW CALCULATIONS:

BUILDING TYPE PER NFPA 222: TYPE II
FIRE FLOW AREA PER NFPA1: 48,624 SF (16,208 X 3)
MINIMUM FLOW PER NFPA1 @ 20 PSI: 2,750 GPM
MINIMUM FLOW WITH 75% REDUCTION FOR FULLY SPRINKLERED BUILDINGS: 2,750 X 0.25 = 687.50 GPM
MINIMUM FLOW REQUIRED = 1000 GPM

WATER & SEWER DEMAND:

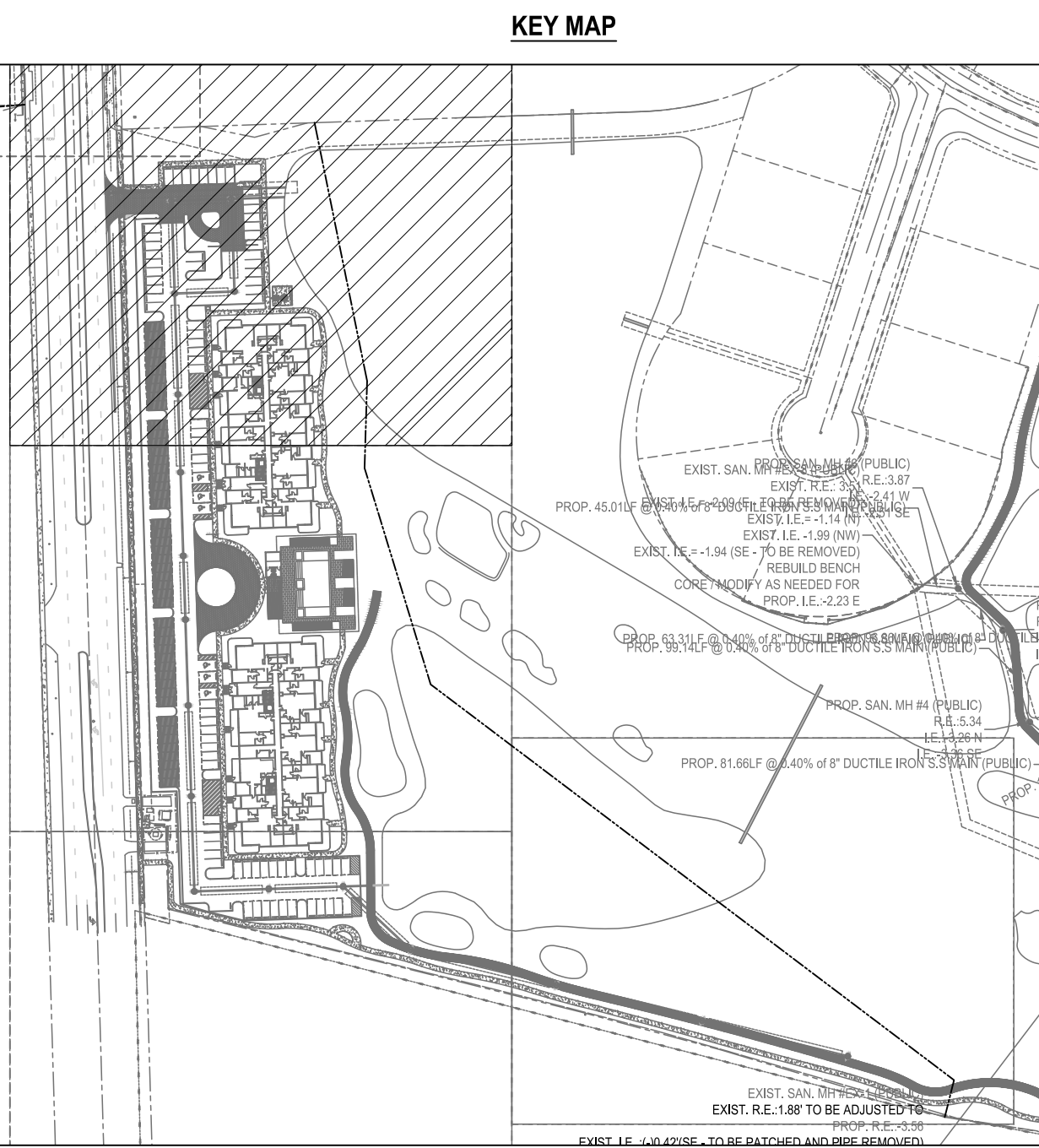
72 UNITS X 3 (POPULATION PER UNIT) = 216 (TOTAL POPULATION)
216 X 100 (PER CAPITA FLOW IN GPD) = 21,600 GPD

WATER AND SEWER LEGEND			
	DOUBLE DETECTOR CHECK VALVE		EXIST. SANITARY SEWER MANHOLE
	RPZ BACKFLOW PREVENTORS		PROP. SANITARY SEWER MANHOLE
	GATE VALVE		PROP. SANITARY CLEAN OUT
	METER		PROP. METER VAULT
	TEE / TAP		PROP. BACTERIOLOGICAL SAMPLE
	FIRE HYDRANT		PROP. REDUCER
	FIRE DEPT. CONNECTION		
	PROP. PLUG / CAP		
PROPOSED SANITARY SEWER PIPE		ABBREVIATIONS	
PROP. WATER PIPE		PROP. EXIST.	PROPOSED
EXIST. WATER PIPE		I.E.	EXISTING
EXIST. SANITARY SEWER PIPE		M.H.	MANHOLE
EXIST. STORM PIPE		B.F.P.	BACKFLOW PREVENTOR
		G.V.	GATE VALVE
		D.O.C.V.	DOUBLE DETECTOR CHECK VALVE
		F.D.C.	FIRE DEPT. CONNECTION
EXIST. ATT UNDERGROUND		EXIST. UNKNOWN UNDERGROUND	
EXIST. BROWARD TRAFFIC COMMUNICATIONS		EXIST. FPL UNDERGROUND	
EXIST. BROWARD FIBER OPTIC		EXIST. ELECTRICAL UNDERGROUND	
EXIST. COMCAST UNDERGROUND		EXIST. ATT UNDERGROUND	
EXIST. ELECTRICAL UNDERGROUND		EXIST. OVERHEAD	
EXIST. FIBER OPTIC UNDERGROUND		EXIST. TELEPHONE UNDERGROUND	

SYMBOLS FOR FITTINGS, VALVES, ETC. ARE DIAGRAMMATIC ONLY AND DO NOT REFLECT ACTUAL SIZE; FOR ACTUAL DIMENSIONS REFER TO MANUFACTURER'S SPECIFICATIONS.

- WATER & SEWER NOTES**
1. NO GATE VALVES IN CURBS.
 2. SLOPE OR PITCH SANITARY SEWER MANHOLE CASTINGS WITH DESIGN ROAD SECTIONS.
 3. ALL SANITARY SEWER CLEANOUTS LOCATED IN ROADWAY ARE TO BE TRAFFIC-RATED.
 4. WATER SHALL BE AVAILABLE TO FIRE HYDRANTS BEFORE INTERIOR BUILDING CONSTRUCTION CAN BEGIN.
 5. ALL EXISTING WATER AND SANITARY SERVICES TO THE PROPERTY THAT ARE NOT BEING RE-USED SHALL BE CUT AND CAPPED AND ABANDONED IN ACCORDANCE WITH THE PUBLIC UTILITIES' MINIMUM STANDARDS.
 6. AFTER WATER AND SEWER CONNECTIONS, RESTORE ALL RIGHT OF WAY (PAVEMENT, SIDEWALK, CURB, ETC.) IN ACCORDANCE WITH CITY OF HOLLYWOOD AND/OR BROWARD COUNTY MINIMUM STANDARDS.
 7. ALL ELEVATIONS SHOWN IN THIS PLAN ARE IN THE NAVD DATUM.
 8. ALL EXISTING UTILITIES SHOWN ON THIS PLAN ARE BASED ON THE BEST AVAILABLE INFORMATION. THE EXISTING UTILITY INFORMATION SHOWN HERE IS FOR THE CONTRACTOR'S CONVENIENCE AND THE E.O.R. ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. BEFORE COMMENCING CONSTRUCTION CONTRACTOR TO CALL FOR UTILITY LOCATES, VERIFY ALL EXISTING UTILITIES' LOCATIONS AND DEPTHS, AND NOTIFY E.O.R. OF ANY CONFLICTS.

- FIRE LINE NOTES:**
1. ALL PROPOSED FIRE MAINS, SERVICES, "SIAMENS" CONNECTION LINES ETC. MUST BE INSTALLED BY A STATE LICENSED FIRE PROTECTION CONTRACTOR HOLDING A CLASS II, OR V LICENSE PER F.S. 633.102.
 2. ALL FIRE LINES ARE TO BE INSPECTED BY CERTIFIED FIRE LINE INSPECTORS PRIOR TO BEING PLACED INTO SERVICE.
 3. UPON COMPLETION OF REQUIRED TESTING A STATE LICENSED FIRE LINE CONTRACTOR SHALL ISSUE A "LICENSED UNDERGROUND TEST CERTIFICATE". THE CERTIFICATE MUST BE ISSUED AND THE FIRE LINE MUST BE ACCEPTED BY THE BROWARD COUNTY HEALTH DEPT. (WHERE APPLICABLE) PRIOR TO BEING PLACED INTO SERVICE.
 4. FIRE LINE SYSTEM COMPONENTS (FDC, DDV, FIRE LINE PIPING, ETC.) SHOWN ON THESE PLANS ARE TO BE COORDINATED WITH THE FIRE PROTECTION DRAWINGS AND DESIGN AND FIRE PROTECTION SHOP DRAWINGS. NOTIFY ENGINEER OF ANY DISCREPANCY PRIOR TO INSTALLATION OF ANY PORTION OF THE FIRE PROTECTION SYSTEM.



BTE REF DATE: 6-6-2026

REVISIONS

DATE

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WATER AND SANITARY SEWER PLAN

EMERALD HILLS

Site C - North 46th Avenue - East
Hollywood, Florida

BOTEK THURLOW
Engineering, Inc.

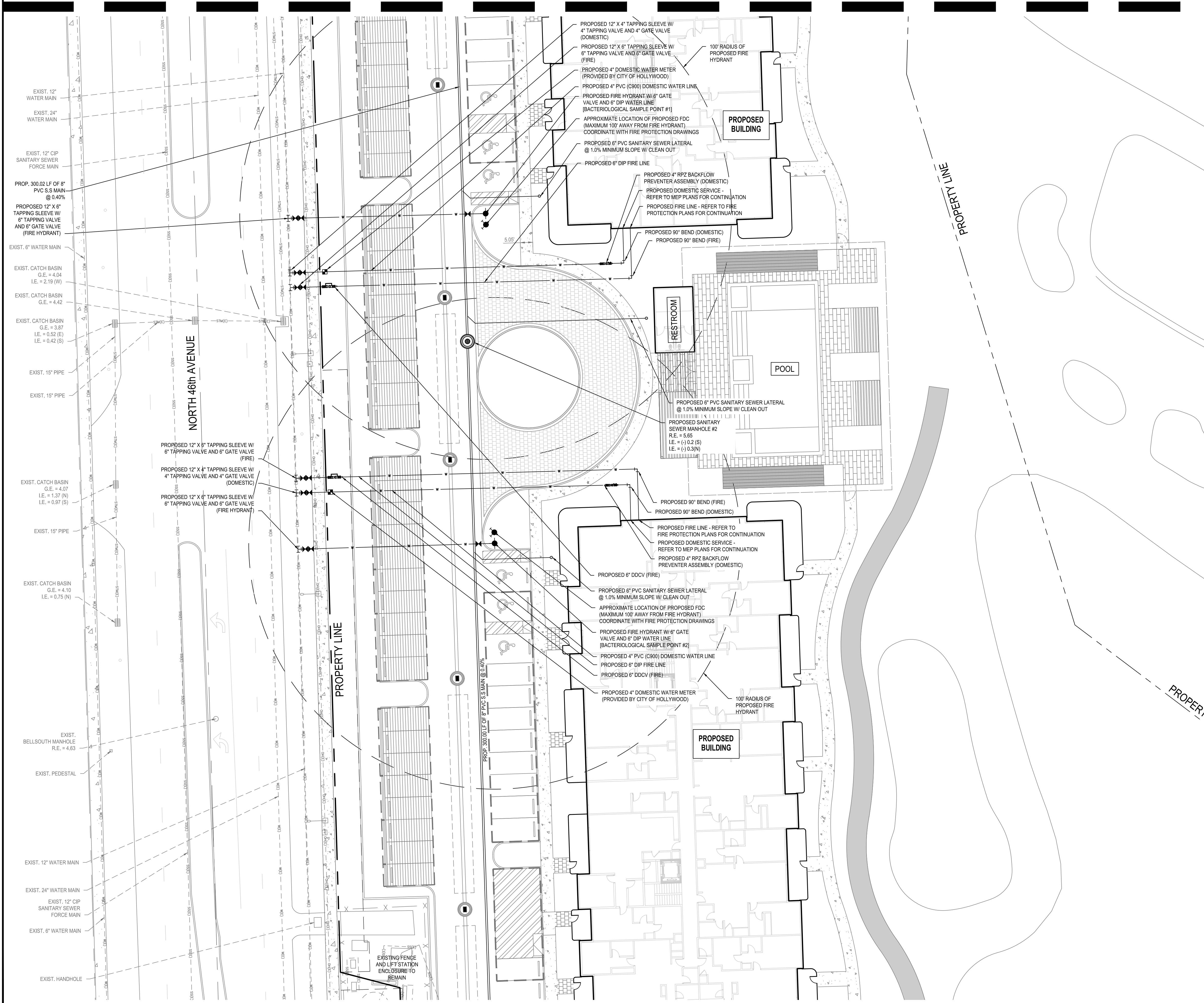
3400 NW 9th Avenue, Suite 102, Ft. Lauderdale, FL 33309
www.botekthurlow-eng.com P: 954-568-8888 F: 954-568-0737

BTE PROJECT #:
22-0401

PROJECT DATE:
6-5-2024

SHEET #:
CC-WS-1

MATCHLINE - SEE SHEET CC-WS-1



MATCHLINE - SEE SHEET CC-WS-3

WATER AND SEWER LEGEND

	DOUBLE DETECTOR CHECK VALVE		EXIST. SANITARY SEWER MANHOLE
	RPZ BACKFLOW PREVENTORS		PROP. SANITARY SEWER MANHOLE
	GATE VALVE		PROP. SANITARY CLEAN OUT
	METER		PROP. METER VAULT
	TEE / TAP		PROP. BACTERIOLOGICAL SAMPLE
	FIRE HYDRANT		PROP. REDUCER
	FIRE DEPT. CONNECTION		
	PROP. PLUG / CAP		

PROPOSED SANITARY SEWER PIPE

PROP. WATER PIPE	---
EXIST. WATER PIPE	---
EXIST. SANITARY SEWER PIPE	---
EXIST. STORM PIPE	---
EXIST. ATT UNDERGROUND	---
EXIST. BROWARD TRAFFIC COMMUNICATIONS	---
EXIST. BROWARD FIBER OPTIC	---
EXIST. COMCAST UNDERGROUND	---
EXIST. ELECTRICAL UNDERGROUND	---
EXIST. FIBER OPTIC UNDERGROUND	---

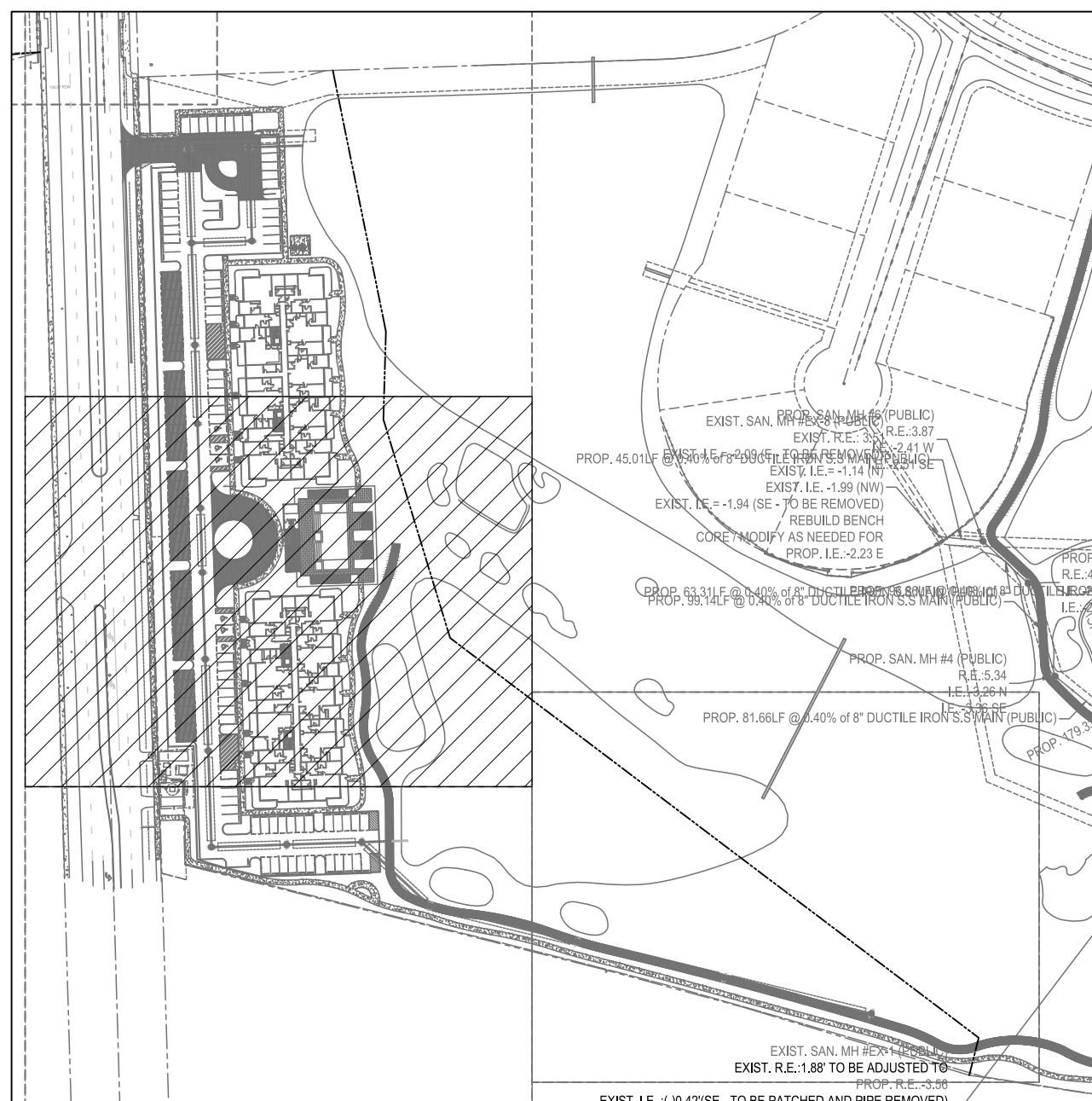
ABBREVIATIONS

PROP. EXIST.	PROPOSED EXISTING
M.H.	MANHOLE
B.F.P.	BACKFLOW PREVENTOR
G.V.	GATE VALVE
D.D.C.V.	DOUBLE DETECTOR CHECK VALVE
F.D.C.	FIRE DEPT. CONNECTION
EXIST. UNKNOWN UNDERGROUND	---
EXIST. FPL UNDERGROUND	---
EXIST. ELECTRICAL UNDERGROUND	---
EXIST. ATT UNDERGROUND	---
EXIST. OVERHEAD	---
EXIST. TELEPHONE UNDERGROUND	---

SYMBOLS FOR FITTINGS, VALVES, ETC. ARE DIAGRAMMATIC ONLY AND DO NOT REFLECT ACTUAL SIZE; FOR ACTUAL DIMENSIONS REFER TO MANUFACTURER'S SPECIFICATIONS.

REFER TO SHEET CC-WS-1 FOR WATER AND SEWER GENERAL NOTES

KEY MAP

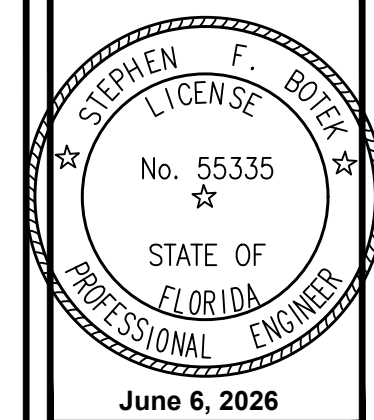


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WATER AND SANITARY SEWER PLAN

EMERALD HILLS

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Hollywood, Florida

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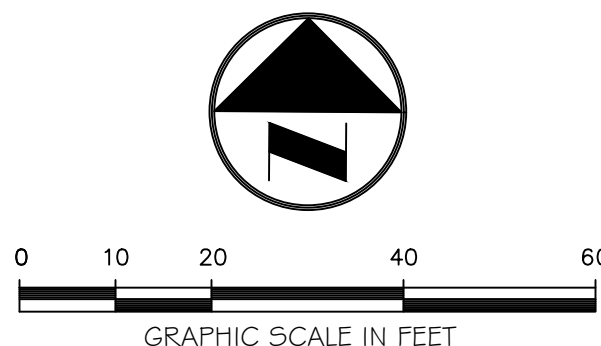
BTE PROJECT #:
22-0401

PROJECT DATE:
6-5-2024

SHEET #:

CC-WS-2

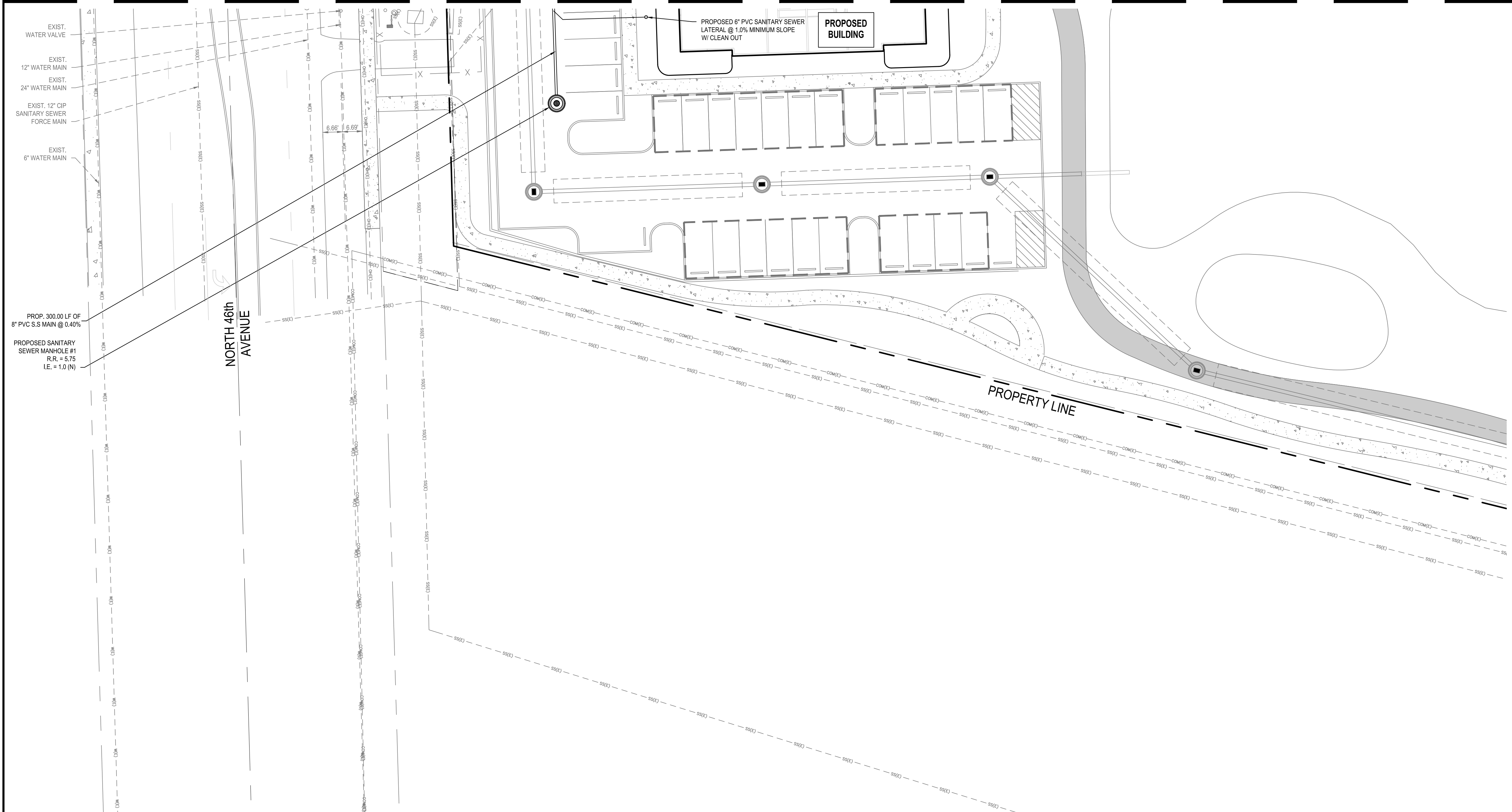
MATCHLINE - SEE
SHEET CC-WS-4



Always call 811 two full business days before you dig to have underground utilities located and marked.

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MATCHLINE - SEE SHEET CC-WS-2

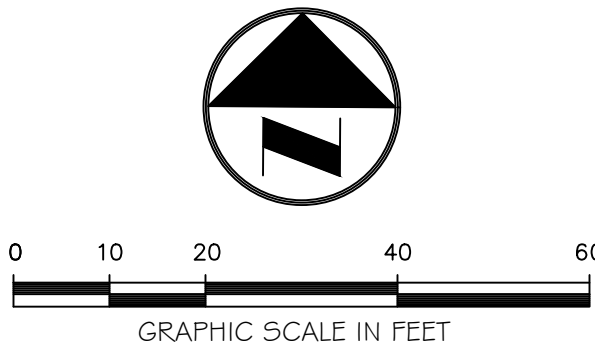
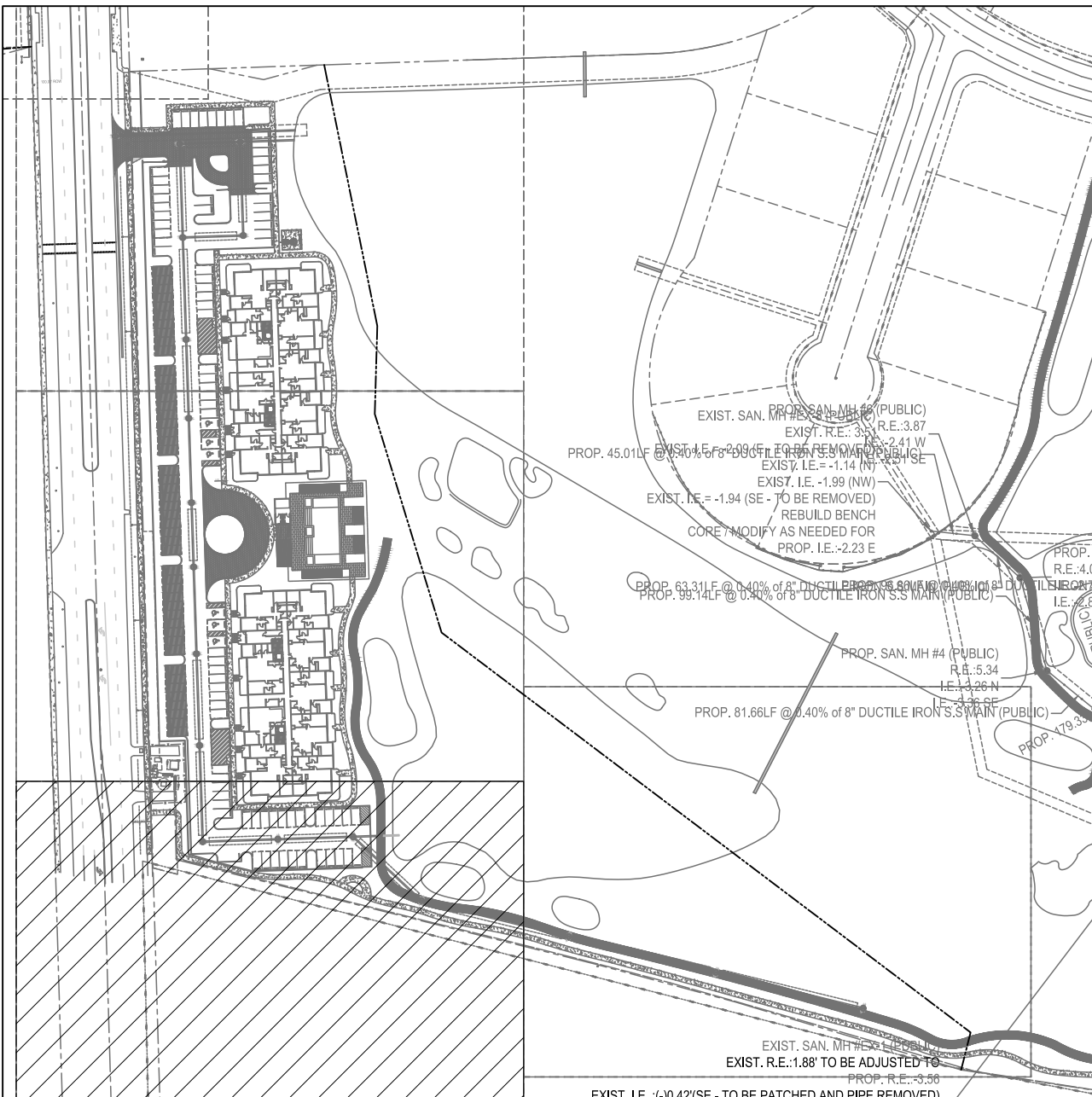


WATER AND SEWER LEGEND			
	DOUBLE DETECTOR CHECK VALVE		EXIST. SANITARY SEWER MANHOLE
	RPZ BACKFLOW PREVENTORS		PROP. SANITARY SEWER MANHOLE
	GATE VALVE		PROP. SANITARY CLEAN OUT
	METER		PROP. METER VAULT
	TEE / TAP		PROP. BACTERIOLOGICAL SAMPLE
	FIRE HYDRANT		PROP. REDUCER
	FIRE DEPT. CONNECTION		
	PROP. PLUG / CAP		
PROP. SANITARY SEWER PIPE		ABBREVIATIONS	
PROP. WATER PIPE		PROP.	PROPOSED
EXIST. WATER PIPE		EXIST.	EXISTING
EXIST. SANITARY SEWER PIPE		I.E.	INVERT ELEVATION
EXIST. STORM PIPE		M.H.	MANHOLE
EXIST. ATT UNDERGROUND		B.F.P.	BACKFLOW PREVENTOR
EXIST. BROWARD TRAFFIC COMMUNICATIONS		G.V.	GATE VALVE
EXIST. BROWARD FIBER OPTIC		D.D.C.V.	DOUBLE DETECTOR CHECK VALVE
EXIST. COMCAST UNDERGROUND		F.D.C.	FIRE DEPT. CONNECTION
EXIST. ELECTRICAL UNDERGROUND			
EXIST. FIBER OPTIC UNDERGROUND			
		EXIST. UNKNOWN UNDERGROUND	
		EXIST. FPL UNDERGROUND	
		EXIST. ELECTRICAL UNDERGROUND	
		EXIST. ATT UNDERGROUND	
		EXIST. OVERHEAD	
		EXIST. TELEPHONE UNDERGROUND	

SYMBOLS FOR FITTINGS, VALVES, ETC. ARE DIAGRAMMATIC ONLY AND DO NOT REFLECT ACTUAL SIZE; FOR ACTUAL DIMENSIONS REFER TO MANUFACTURER'S SPECIFICATIONS.

REFER TO SHEET CC-WS-1 FOR WATER AND SEWER GENERAL NOTES

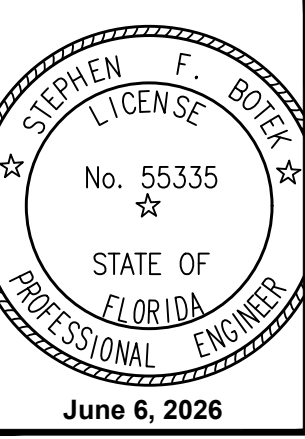
KEY MAP



Always call 811 two full business days before you dig to have underground utilities located and marked.

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WATER AND SANITARY SEWER PLAN

EMERALD HILLS

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Botek Thurlow Engineering, Inc.

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BTE PROJECT #:
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PROJECT DATE:
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SHEET #:
CC-WS-3

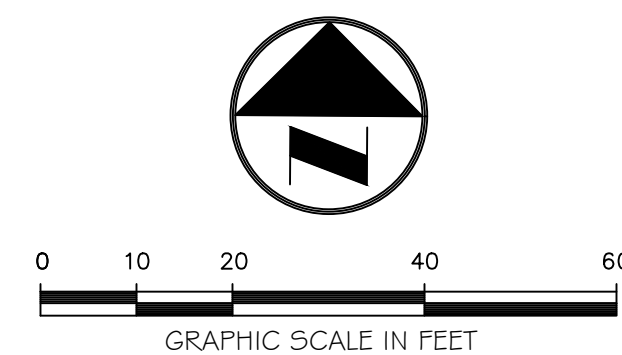
REFER TO SHEET CC-WS-1 FOR WATER AND SEWER GENERAL NOTES

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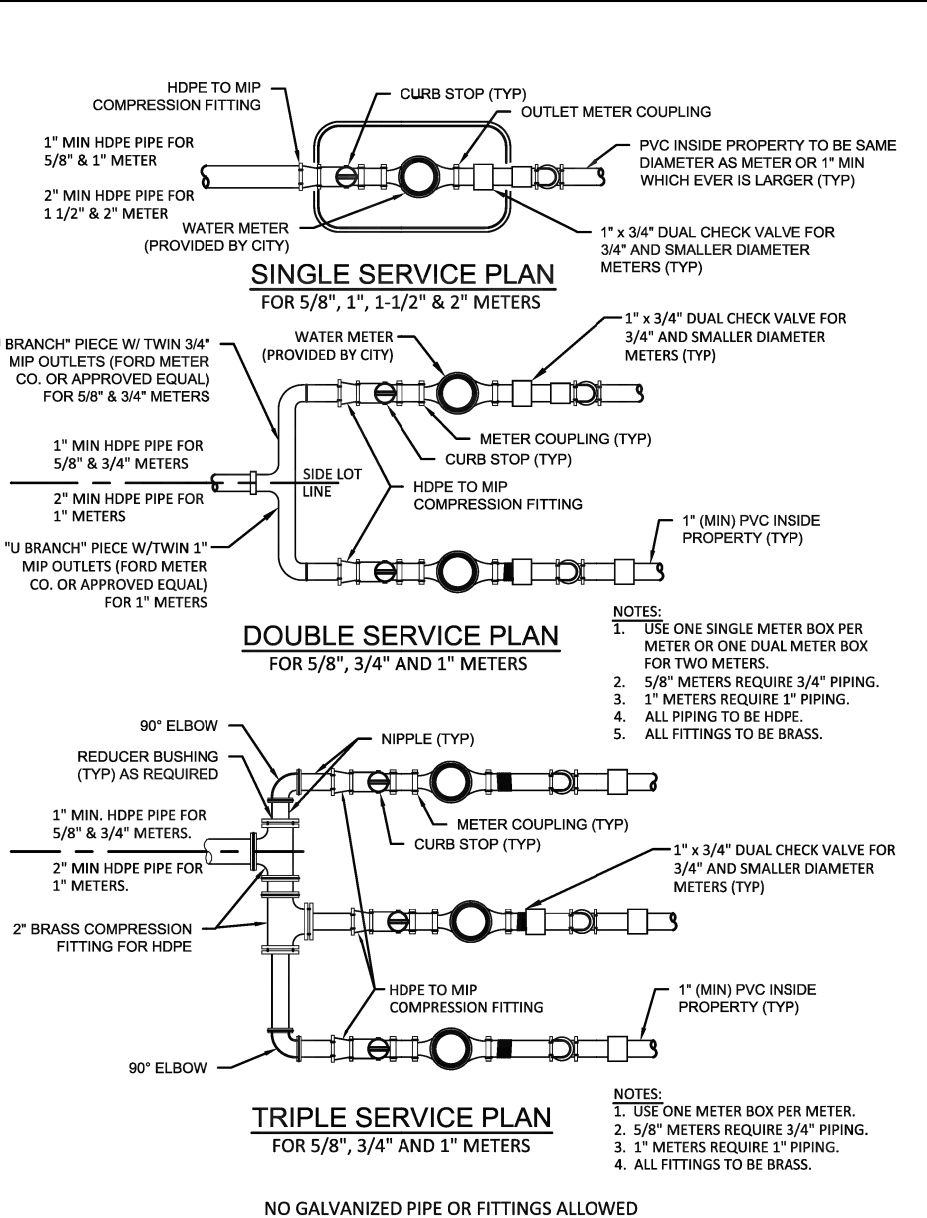
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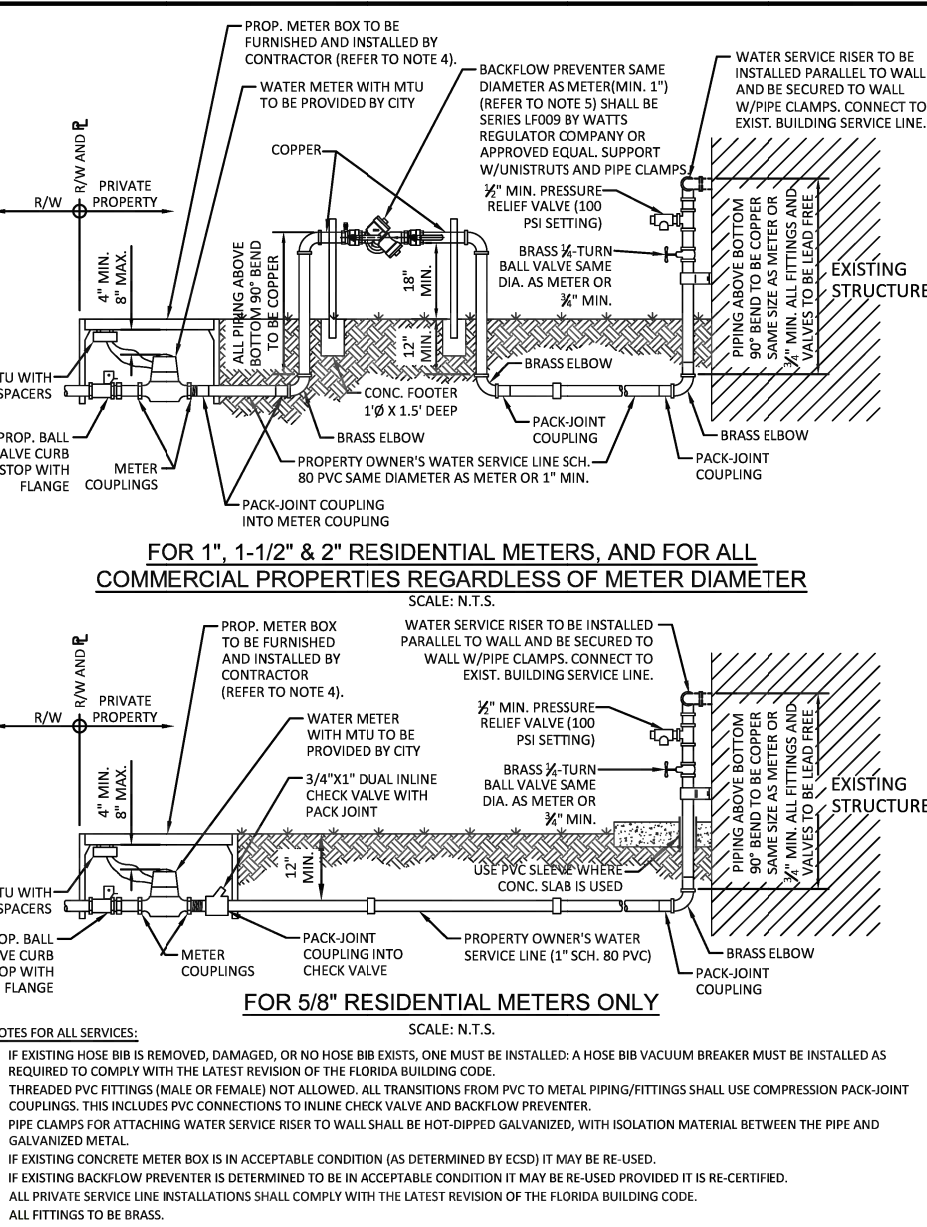
WATER SYSTEM NOTES:

- NEW OR RELOCATED UNDERGROUND WATER MAINS INCLUDED IN THIS PROJECT THAT WILL CROSS ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER 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 WATERFORCE 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. ON 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 II OF CHAPTER 62-555, 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 REGULATED UNDER PART III OF CHAPTER 62-555, 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 ENCASMENT 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. ON 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 FOR THE WATER MAIN.
- FIRE HYDRANT BARRELS SHALL BE ENCASED IN POLY WRAP UP TO THE GROUND SURFACE AND THE WEEPS 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 THIRTY-SIX (36") 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" IN 1/2" HIGH LETTERS. 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 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2024
DRAWN: EAM WATER SYSTEM NOTES DRAWING NO. W-01
APPROVED: XXX



ISSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 10/06/2021
DRAWN: EAM TYPICAL 5/8", 1", 1-1/2" AND 2" METER INSTALLATION DRAWING NO. W-06
APPROVED: XXX

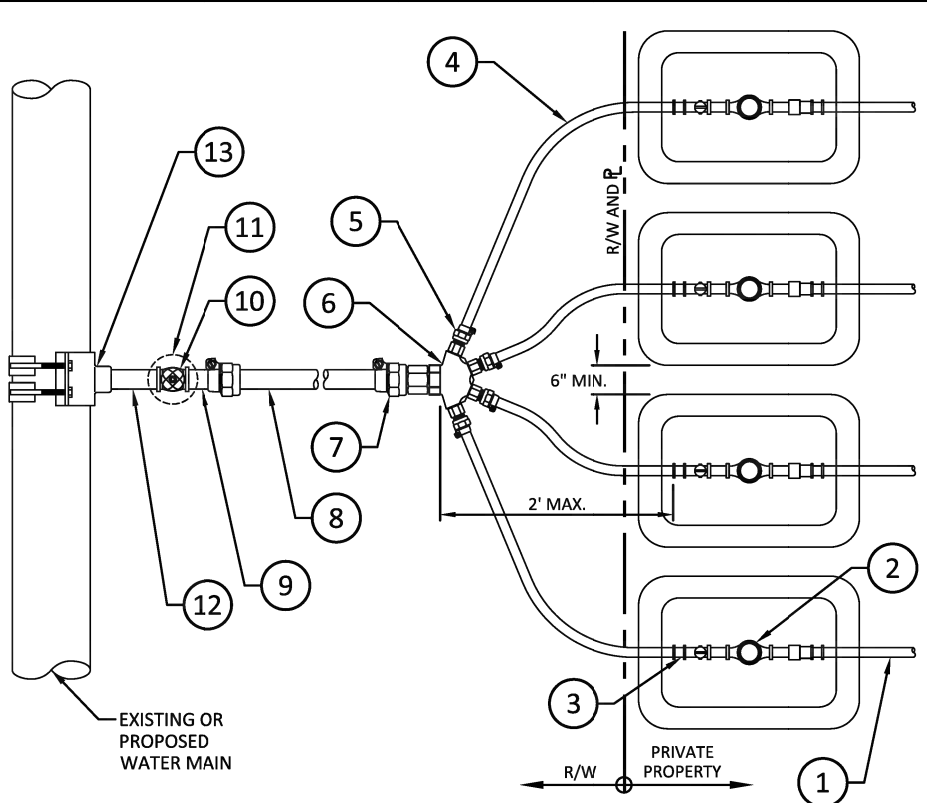


ISSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 02/11/2025
DRAWN: EAM TYPICAL WATER SERVICE FROM METER TO STRUCTURE FOR 5/8" THROUGH 2" METERS DRAWING NO. W-10
APPROVED: XXX

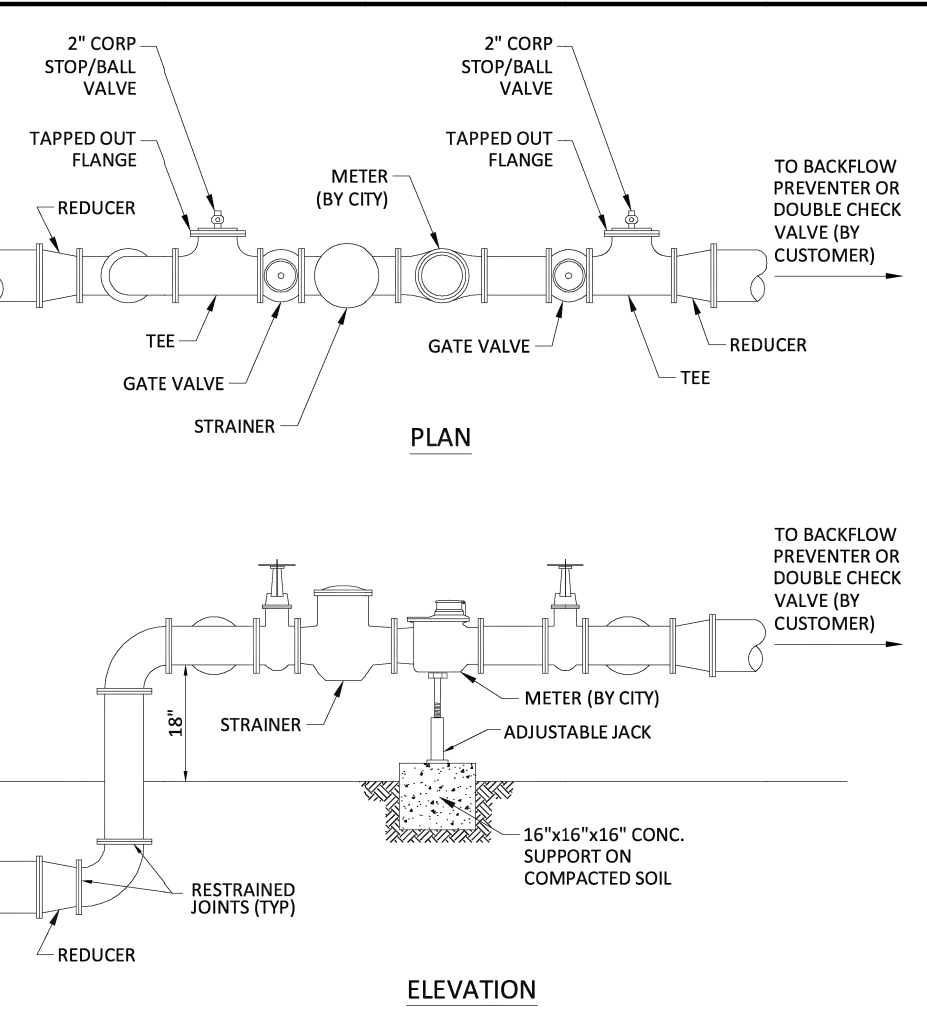
WATER SYSTEM NOTES (CONTINUED):

- 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 ANS/AWWA C900 LATEST REVISION AND CLASS DR 38. ALL DIP WATER MAINS SHALL BE DUCTILE IRON PRESSURE CLASS 350, WITH WALL THICKNESS CONFORMING WITH CLASS 52. ALL DUCTILE IRON PIPE SHALL CONFORM TO THE REQUIREMENTS OF ANS/AWWA C151/A21.51-02 AND BE CEMENT UNED AND SEAL COATED PER ANS/AWWA C154/A21.4-03.
- FITTINGS SHALL BE DUCTILE IRON, MEETING ANS/AWWA C153/A21.53-00 SPECIFICATIONS, WITH 350 PSI MINIMUM WORKING PRESSURE. FITTINGS MUST BE CEMENT UNED AND SEAL COATED PER ANS/AWWA C154/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 MANUFACTURER'S 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-OUT 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 OF A NON-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 SHORING OR BRACING AS MAY BE NECESSARY TO SUPPORT THE SIDES OF THE EXCAVATION TO ENSURE PERSONAL SAFETY, AND TO PREVENT MOVEMENT WHICH CAN IN ANY WAY DAMAGE THE WORK OR ADJACENT 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.

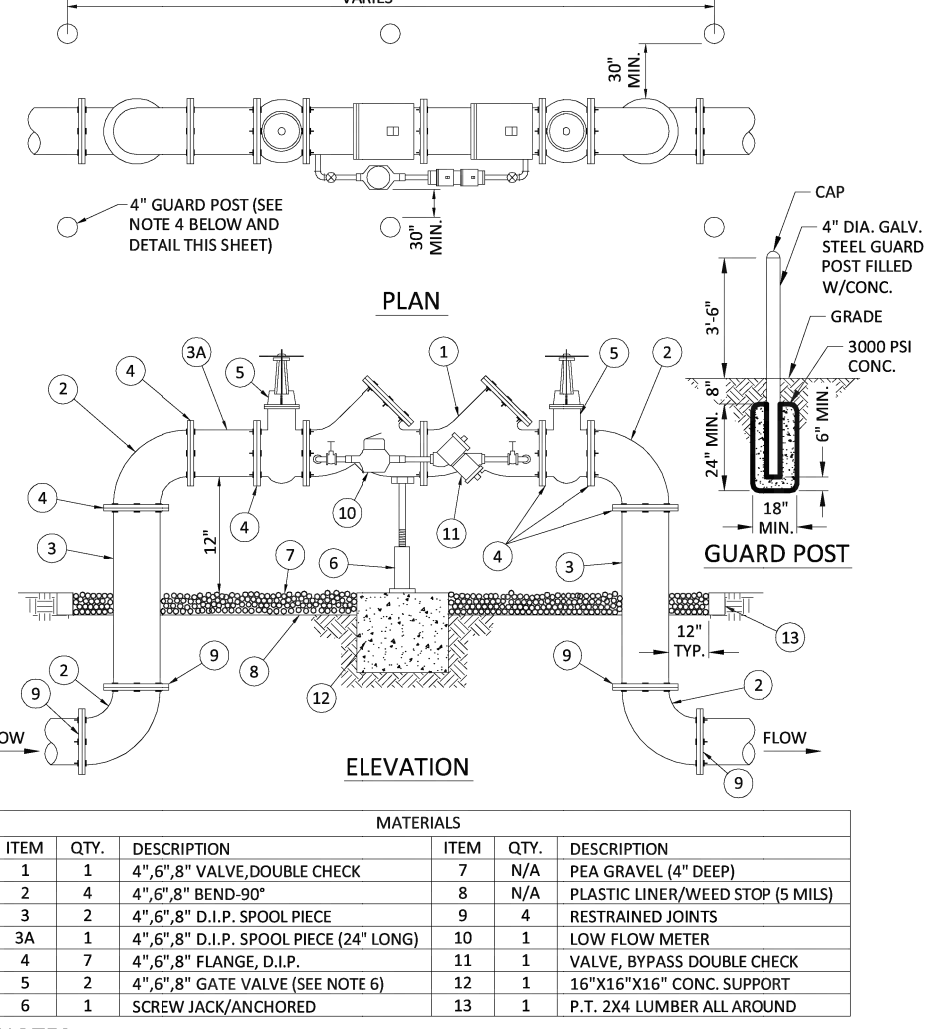
ISSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2024
DRAWN: EAM WATER SYSTEM NOTES DRAWING NO. W-02
APPROVED: XXX



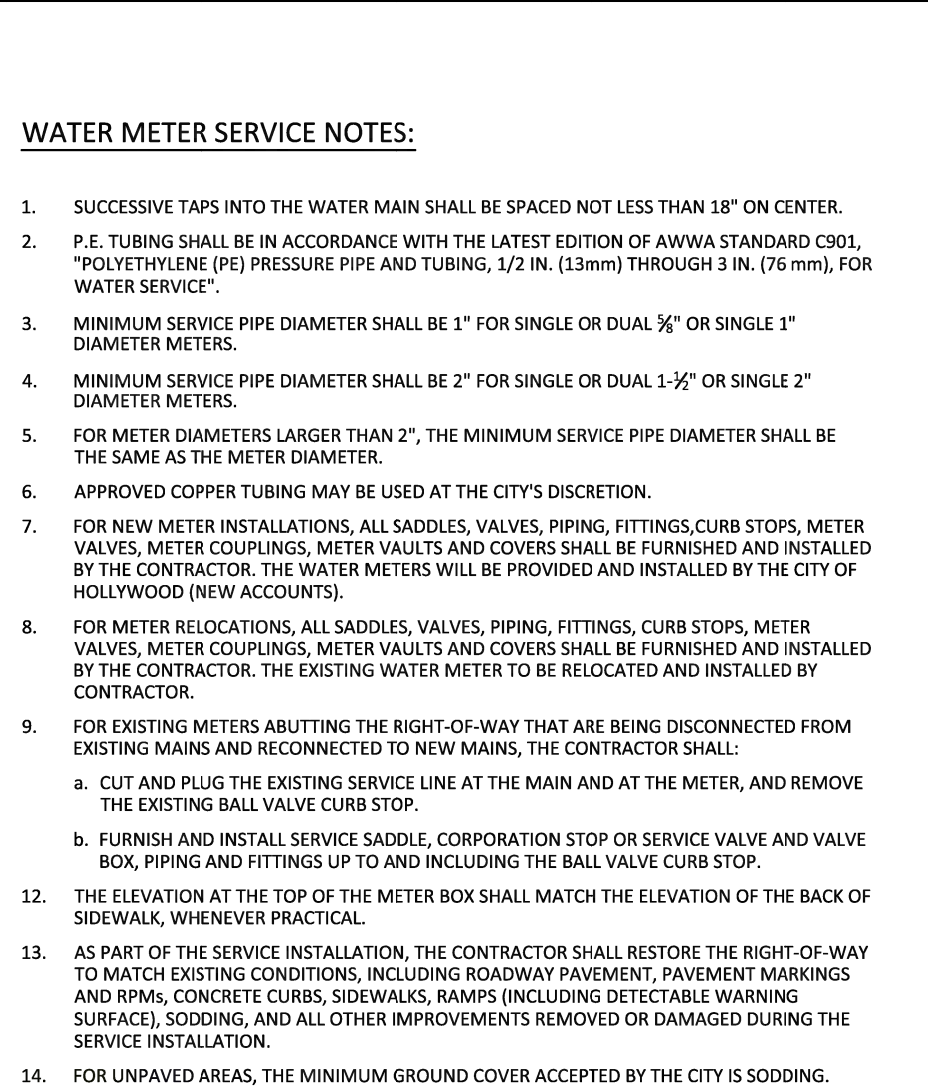
ISSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 10/06/2021
DRAWN: EAM METER BANK INSTALLATION FOR FOUR 5/8", 3/4" AND/OR 1" METERS DRAWING NO. W-06.1
APPROVED: XXX



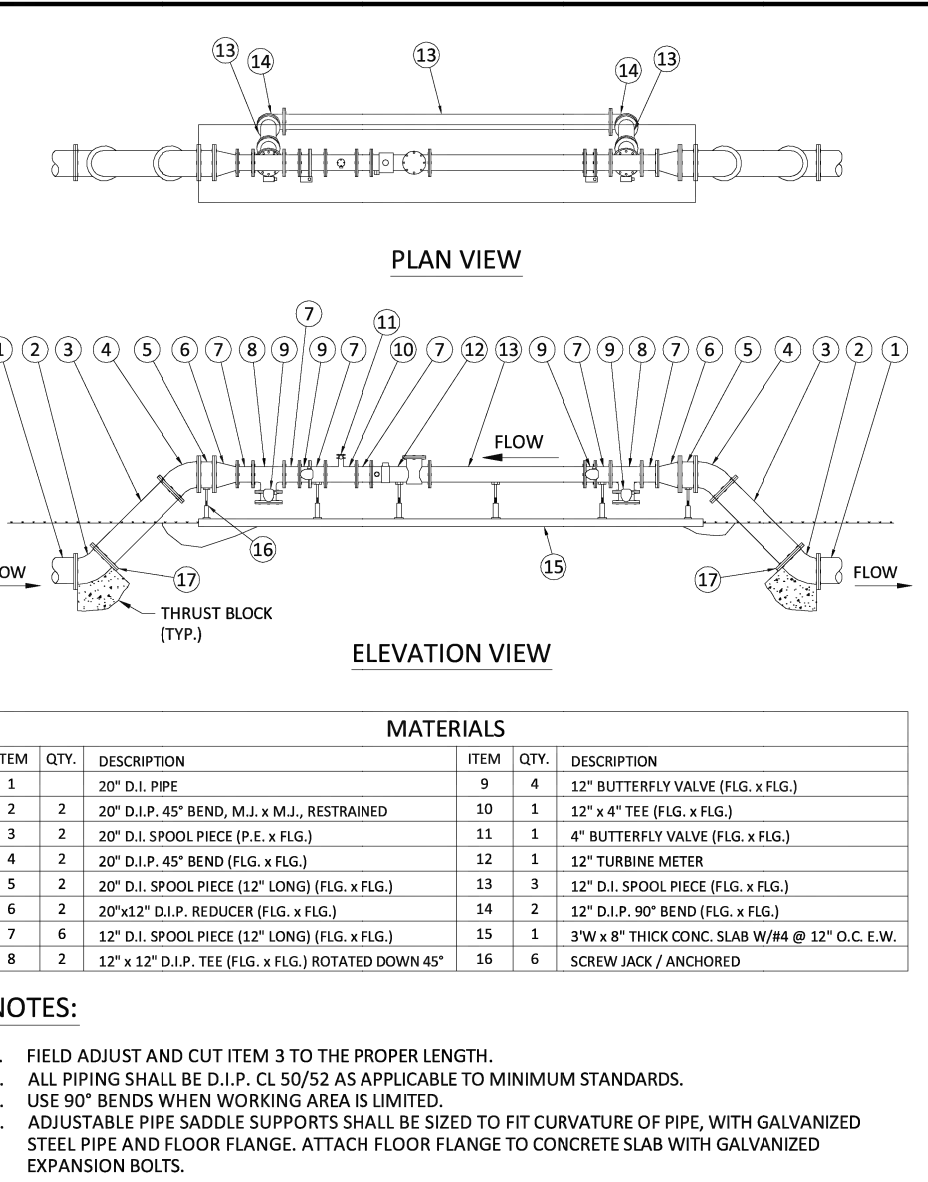
ISSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2024
DRAWN: EAM TYPICAL FIRE HYDRANT INSTALLATION DRAWING NO. W-13
APPROVED: XXX



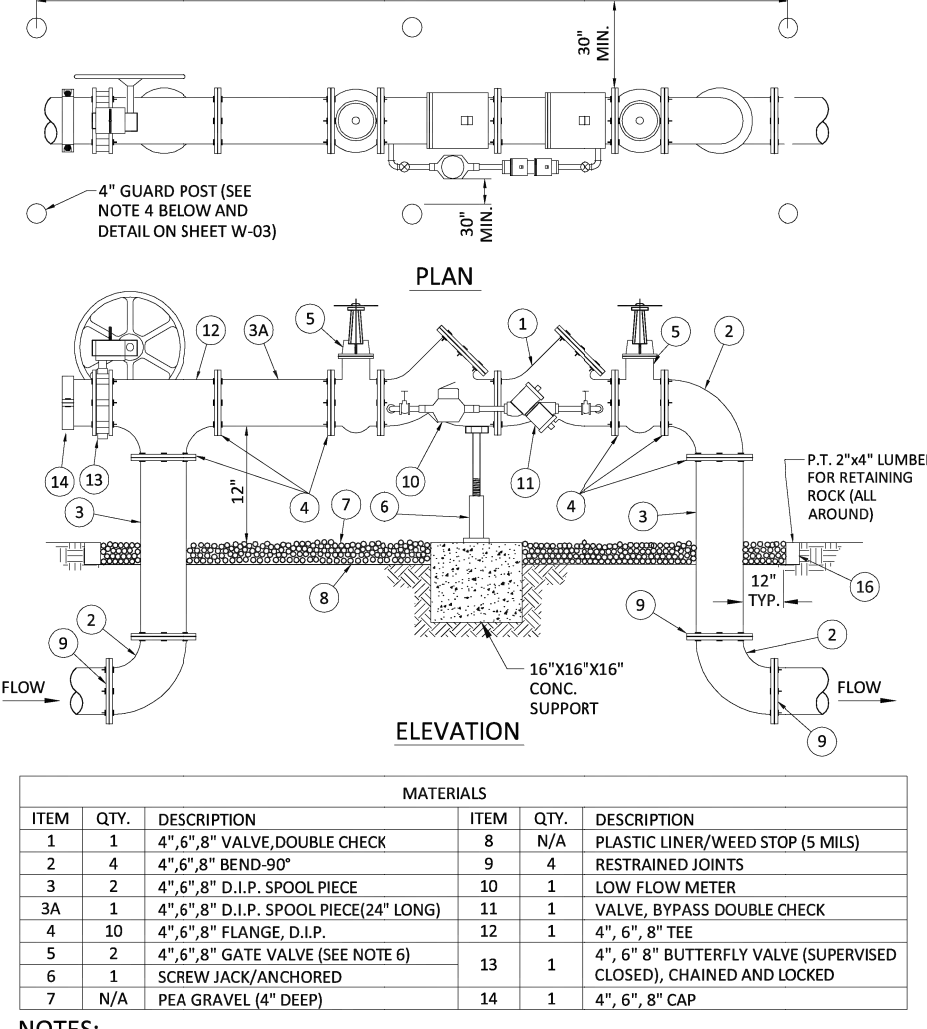
ISSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2024
DRAWN: EAM TYPICAL 4", 6" AND 8" DOUBLE CHECK DETECTOR ASSEMBLY FOR FIRE SINKLER SERVICE W/B.V. CONNECTION (90° BENDS) DRAWING NO. W-03
APPROVED: XXX



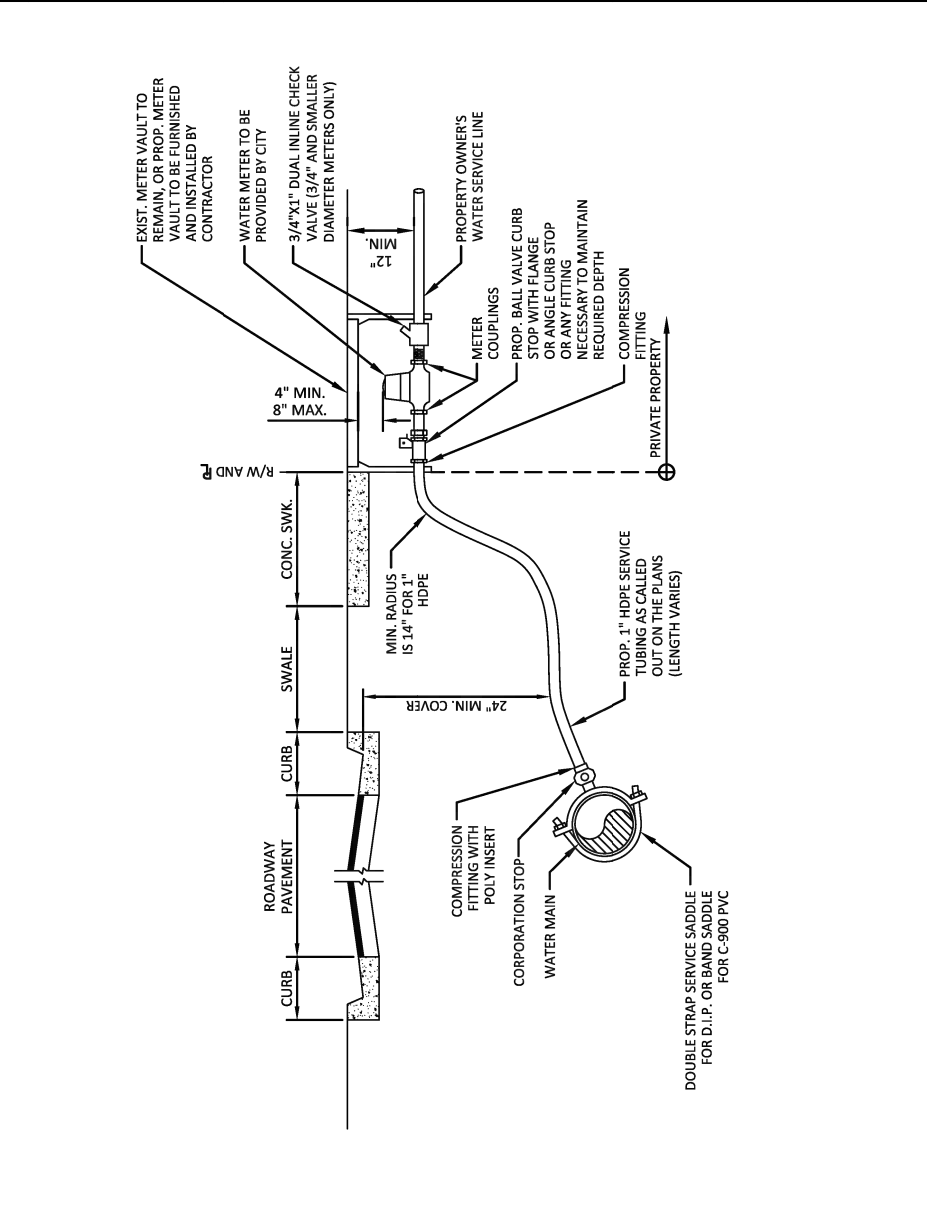
ISSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 10/06/2021
DRAWN: EAM WATER METER SERVICE NOTES FOR 5/8" THROUGH 2" METERS DRAWING NO. W-07
APPROVED: XXX



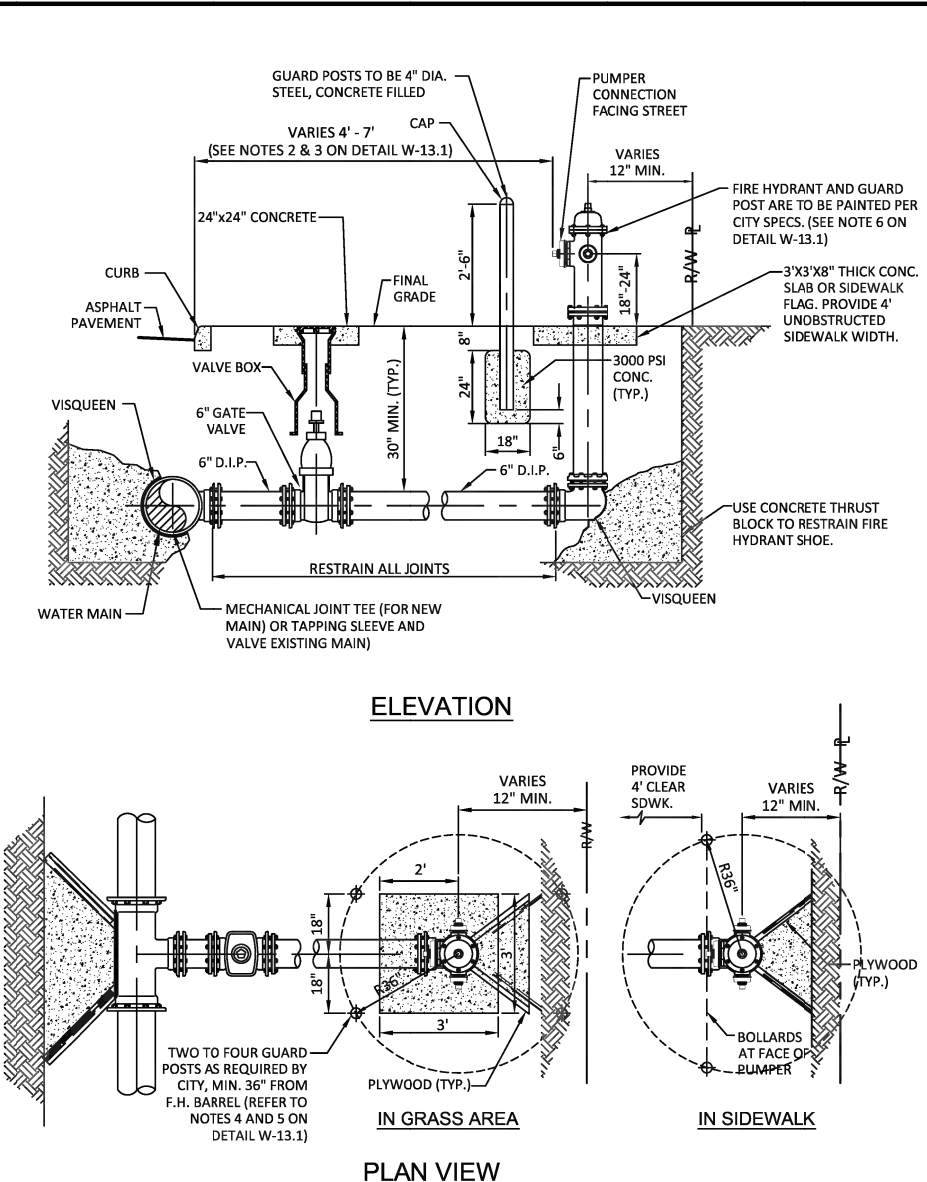
ISSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 03/05/2024
DRAWN: EAM TYPICAL FIRE HYDRANT INSTALLATION DRAWING NO. W-13
APPROVED: XXX



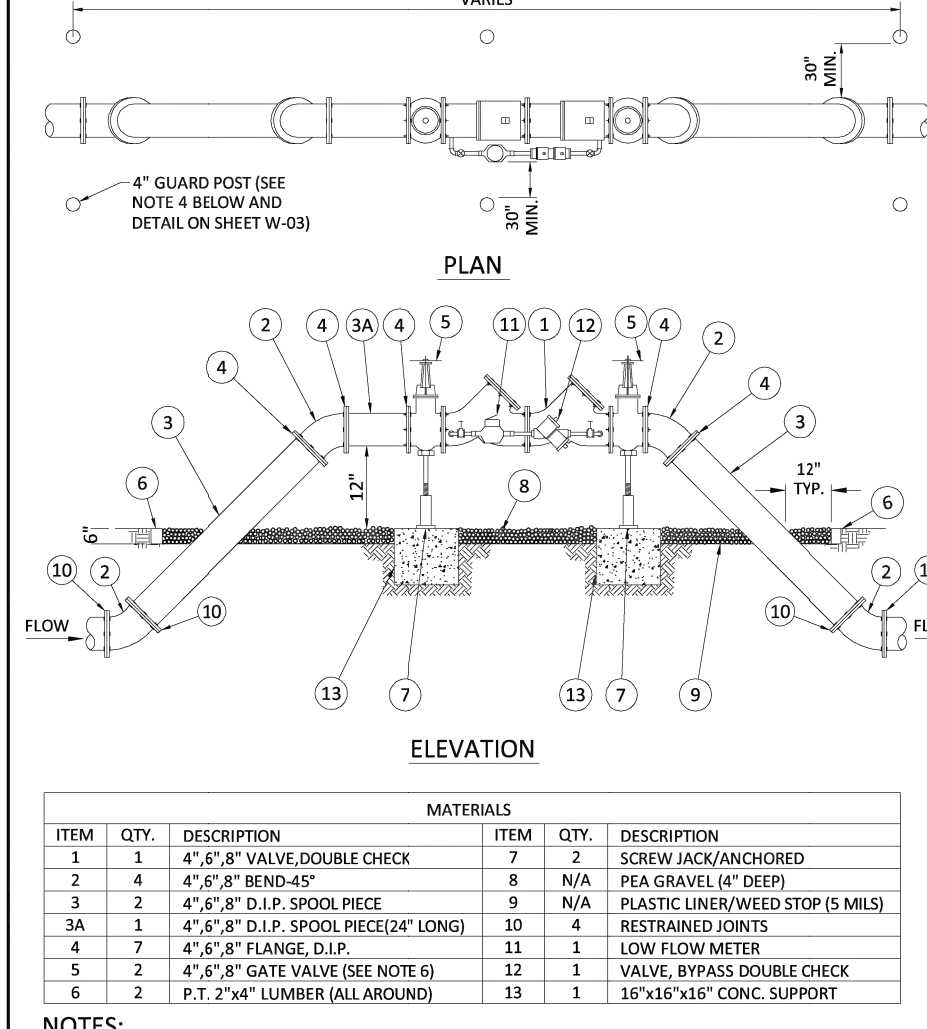
ISSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2024
DRAWN: EAM TYPICAL 4", 6" AND 8" DOUBLE CHECK DETECTOR ASSEMBLY FOR FIRE SINKLER SERVICE W/B.V. CONNECTION (90° BENDS) DRAWING NO. W-04
APPROVED: XXX



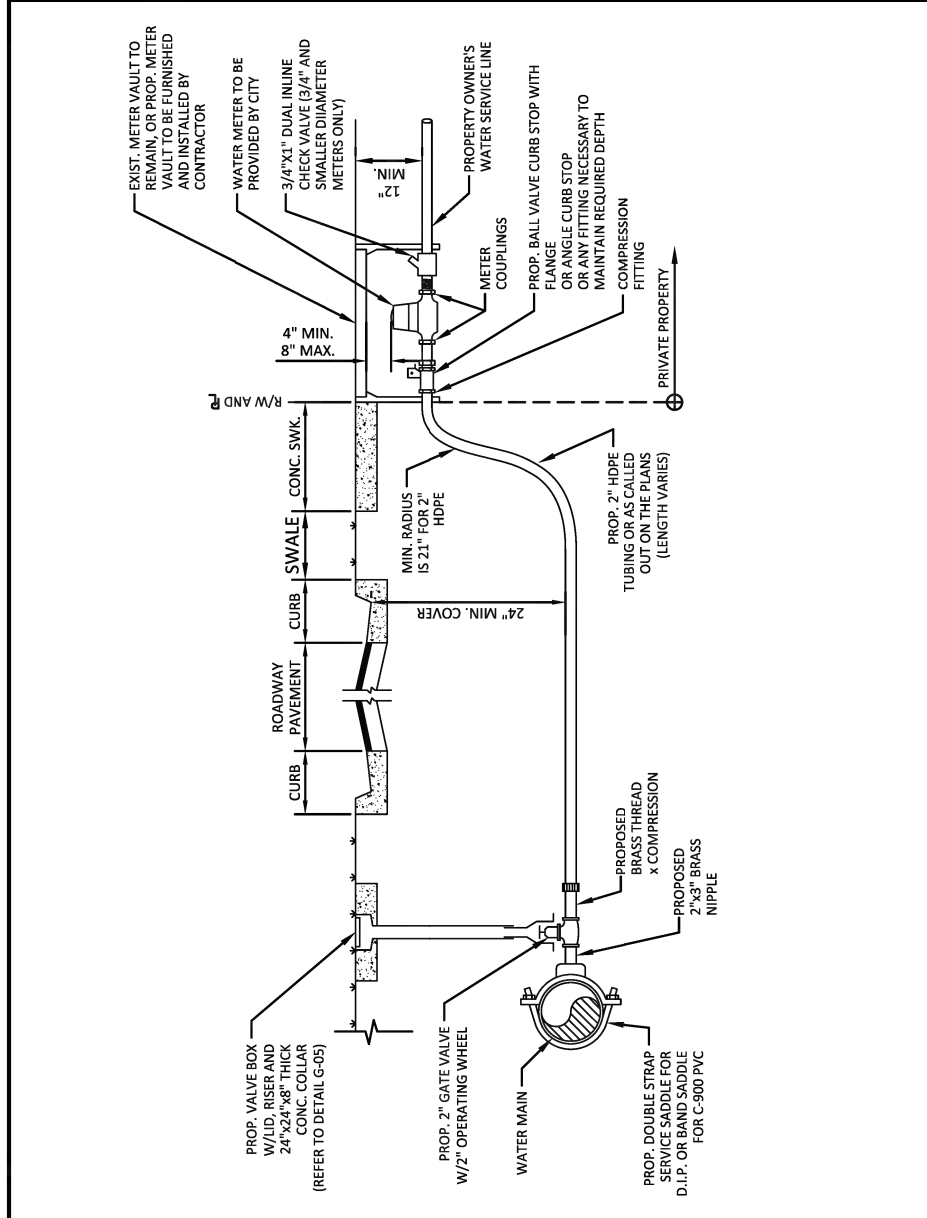
ISSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 10/06/2021
DRAWN: EAM TYPICAL 2-INCH HDPE WATER SERVICE FOR SINGLE/DUAL 5/8" TO 1" METERS, AND ANY SINGLE 1-1/2" TO 2" METERS DRAWING NO. W-08
APPROVED: XXX



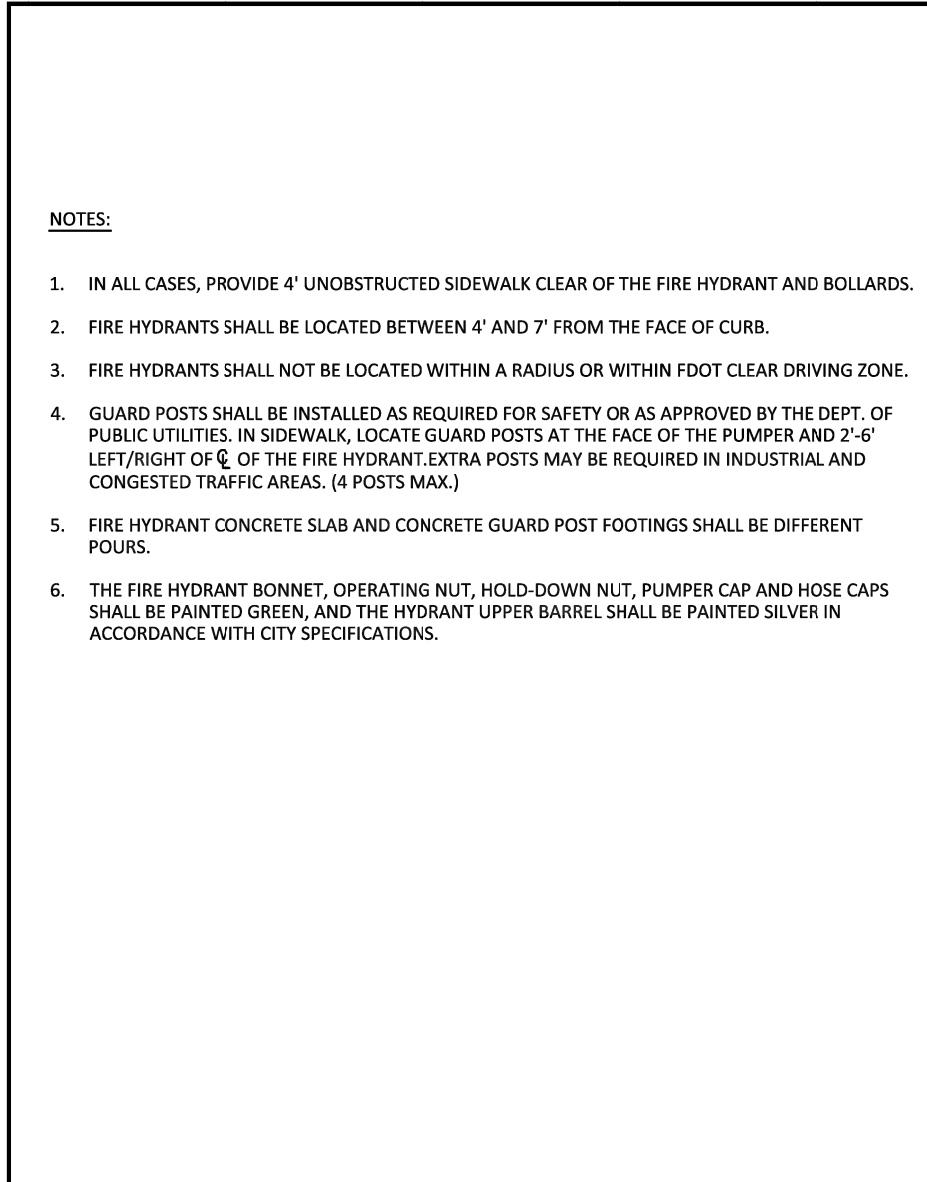
ISSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 03/05/2024
DRAWN: EAM TYPICAL FIRE HYDRANT INSTALLATION DRAWING NO. W-13
APPROVED: XXX



ISSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2024
DRAWN: EAM TYPICAL 4", 6" AND 8" DOUBLE CHECK DETECTOR ASSEMBLY FOR FIRE SINKLER SERVICE W/B.V. CONNECTION (90° BENDS) DRAWING NO. W-05
APPROVED: XXX



ISSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 10/06/2021
DRAWN: EAM TYPICAL 2-INCH HDPE WATER SERVICE FOR SINGLE/DUAL 5/8" TO 1" METERS, AND ANY SINGLE 1-1/2" TO 2" METERS DRAWING NO. W-09
APPROVED: XXX



ISSUED: 03/01/1994 DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL REVISED: 06/08/2024
DRAWN: EAM TYPICAL FIRE HYDRANT INSTALLATION DRAWING NO. W-13
APPROVED: XXX

BTE REF DATE: 6-6-2020

REVISIONS

DATE

STEPHEN F. BOTEK
No. 55335
STATE OF FLORIDA
PROFESSIONAL ENGINEER
June 6, 2026

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WATER AND SANITARY SEWER DETAILS

EMERALD HILLS

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Hollywood, Florida

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BTE PROJECT #:
22-0401

PROJECT DATE:
6-5-2024

SHEET #:
CC-WS-5

1. NO CONNECTIONS TO THE EXISTING LINES SHALL BE MADE UNTIL THE PRESSURE AND BACTERIOLOGICAL TESTS HAVE BEEN PERFORMED ON THE PROPOSED WATER MAINS AND THE SYSTEM HAS BEEN APPROVED BY THE CITY OF HOLLYWOOD AND THE BROWARD COUNTY HEALTH DEPARTMENT.

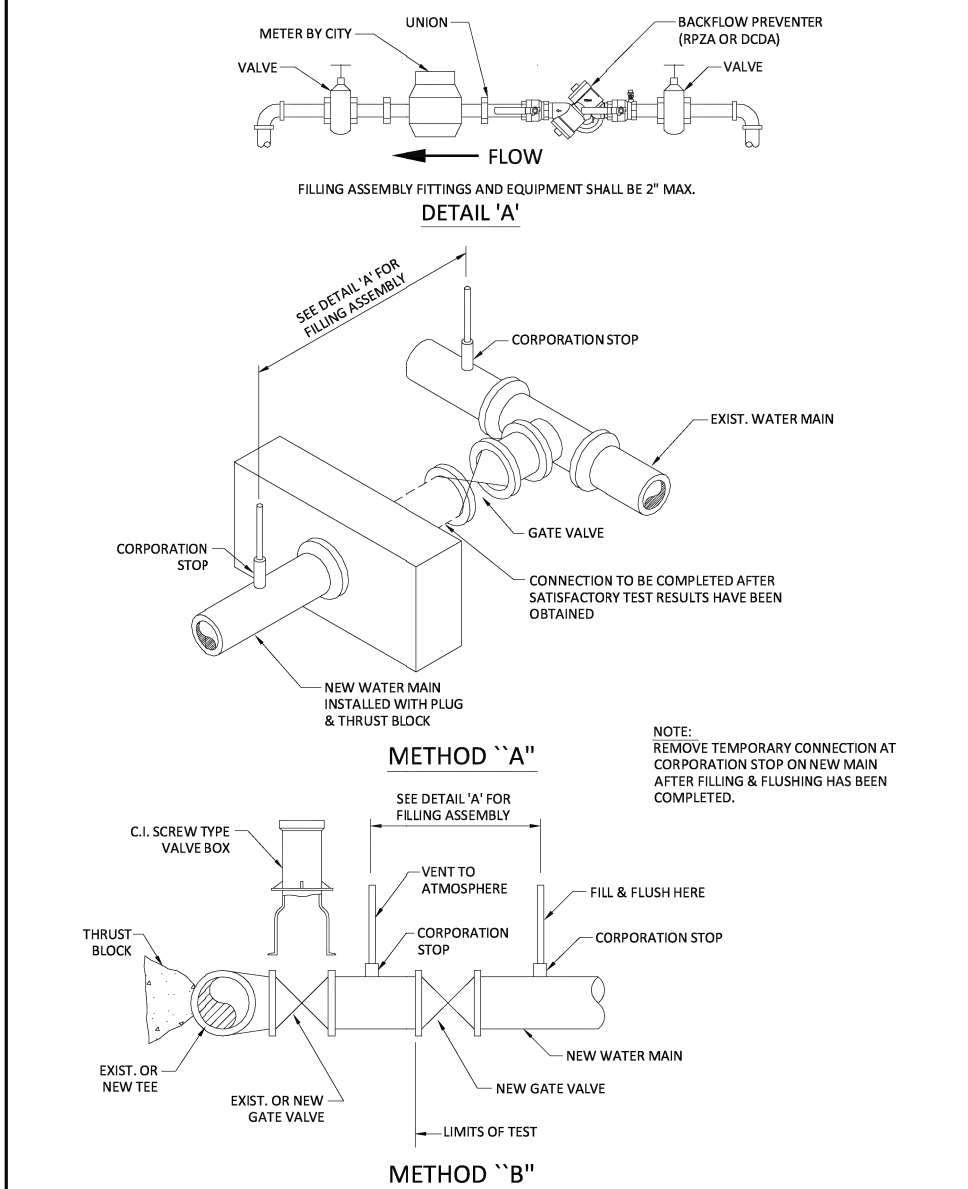
- $$L = \frac{S \times D \times \sqrt{P}}{148,000}$$

L = THE ALLOWABLE LEAKAGE IN GALLONS PER HOUR.
S = THE LENGTH OF PIPE BEING TESTED.
D = THE NOMINAL DIAMETER OF THE PIPE BEING TESTED.
P = THE AVERAGE TEST PRESSURE IN POUNDS PER SQUARE INCH

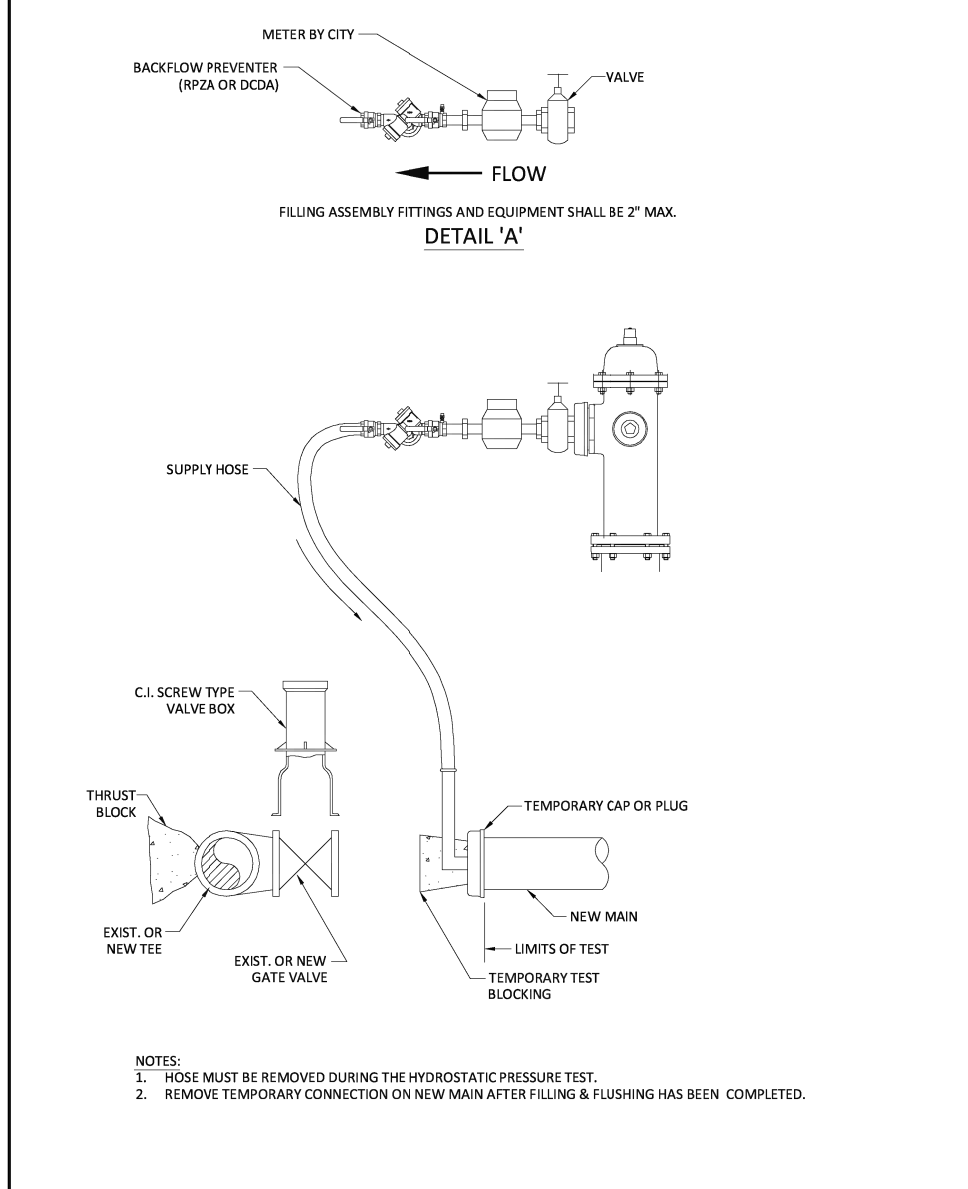
3. THE COMPLETE LENGTH OF THE PROPOSED WATER MAIN SHALL BE TESTED, IN LENGTHS NOT TO EXCEED 2,000 FEET PER TEST.

4. PROPOSED WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH THE LATEST EDITION OF ANSI/AWWA STANDARD C651 AND BACTERIOLOGICAL TESTED FOR TWO CONSECUTIVE DAYS IN ACCORDANCE WITH SPECIFICATION SECTION 15995, "PIPELINE TESTING AND DISINFECT".
5. BACTERIOLOGICAL TESTS SHALL BE REQUESTED AND PAID FOR BY THE CONTRACTOR.
6. THE CONTRACTOR SHALL DIRECTLY HIRE A TESTING LABORATORY CERTIFIED BY THE FLORIDA DEPARTMENT OF HEALTH IN ORDER TO COLLECT AND TEST WATER SAMPLES FROM THE WATER DISTRIBUTION SYSTEM TO BE INFILTRATED INTO SERVICE. THE COLLECTION AND BACTERIOLOGICAL ANALYSES SHALL BE PERFORMED IN ACCORDANCE WITH RULES 62-555.331(4), 62-555.340 AND 62-555.330 (FAC), AS WELL AS ALL REQUIREMENTS OF THE BROWARD COUNTY DEPARTMENT OF PUBLIC SAFETY.
7. THE WATER DISTRIBUTION SYSTEM SHALL NOT BE CONSIDERED COMPLETE AND READY FOR FINAL INSPECTION UNTIL SUCCESSFUL TEST RESULTS ARE OBTAINED FOR ALL TESTS DESCRIBED ABOVE.

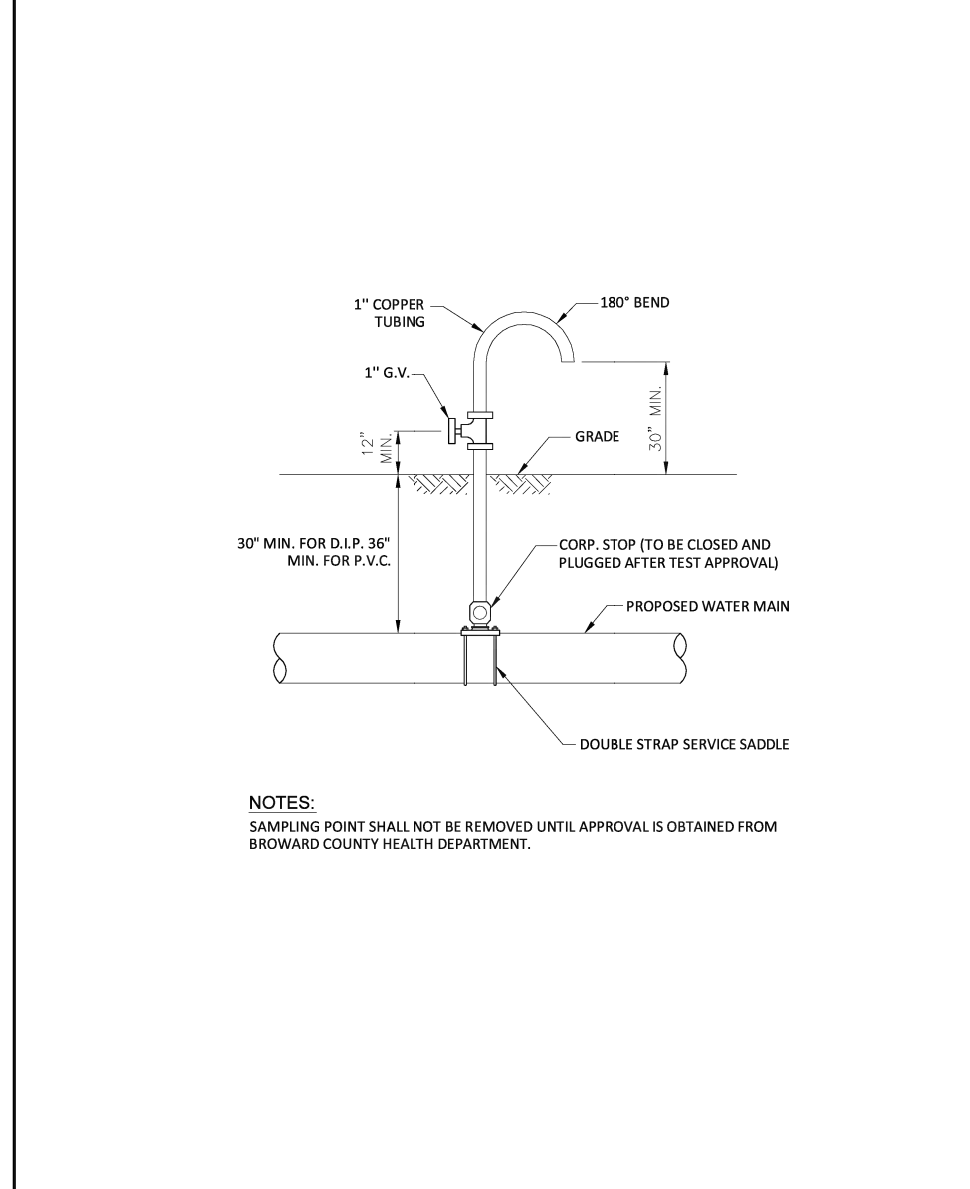
ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	WATER MAIN TESTING AND DISINFECTION NOTES	DRAWING NO.
APPROVED: XXX		W-14



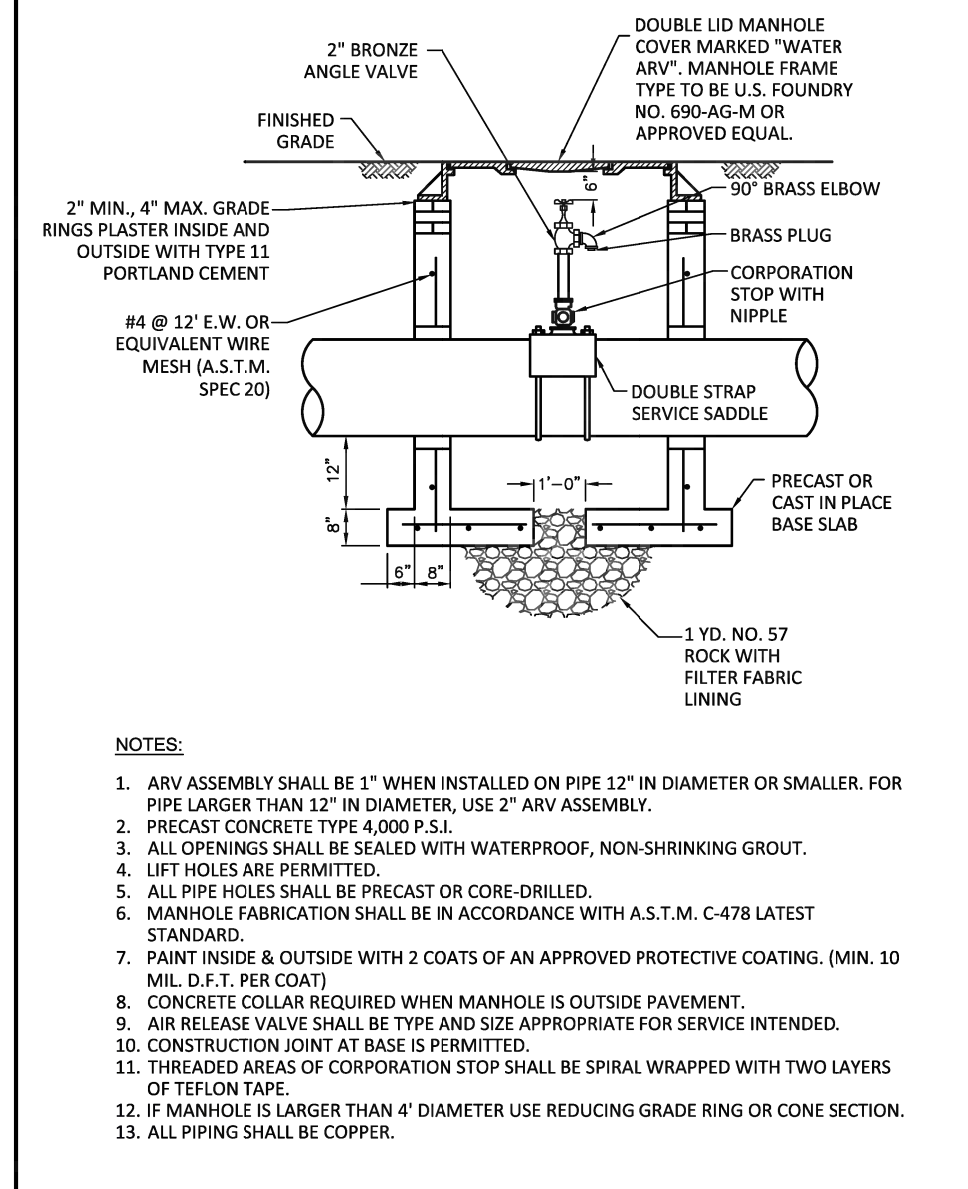
	ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2016
	DRAWN: EAM	FILLING AND FLUSHING DETAILS	DRAWING NO. W-15
APPROVED: XXX			



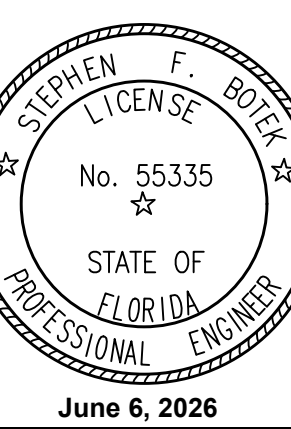
ISSUED: 03/01/99/4	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	CROSS CONNECTION FILLING AND FLUSHING DETAILS	DRAWING NO.
APPROVED: XXX		W-15.1



	ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2010
	DRAWN: EAM	SAMPLING POINT DETAIL	DRAWING NO.
	APPROVED: XXX		W-16



ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 01/08/20
DRAWN: EAM	MANUAL AIR RELEASE VALVE ASSEMBLY	DRAWING NO.
APPROVED: XXX		W-17

[illegible]

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SEALED BY STEPHEN F. BOTEK,
P.E. ON THE DATE ADJACENT
TO THE SEAL.

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Hollywood, Florida

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BTE PROJECT #:
22-0401

PROJECT DATE:
6-5-2024

SHEET #:

CC-WS-6

BRICK AND GRADE RINGS

TRAFFIC TYPE FRAME & COVER

FINISH GRADE

316 STAINLESS STEEL PIPING AS REQUIRED

4" MIN

2" INFLOW PREVENTER (POTABLE WATER ONLY) STALLED PER MANUFACTURER'S INSTRUCTIONS (SECURED TO WALL)

SEE NOTES 4 & 5

2" COPORATION STOP WITH 316 STAINLESS STEEL NIPPLES

8" CONCRETE SUB-CAST INTEGRAL WITH WALL

STAINLESS STEEL DOUBLE STRAP SERVICE SADDLE

8"

3/4" WASHED ROCK

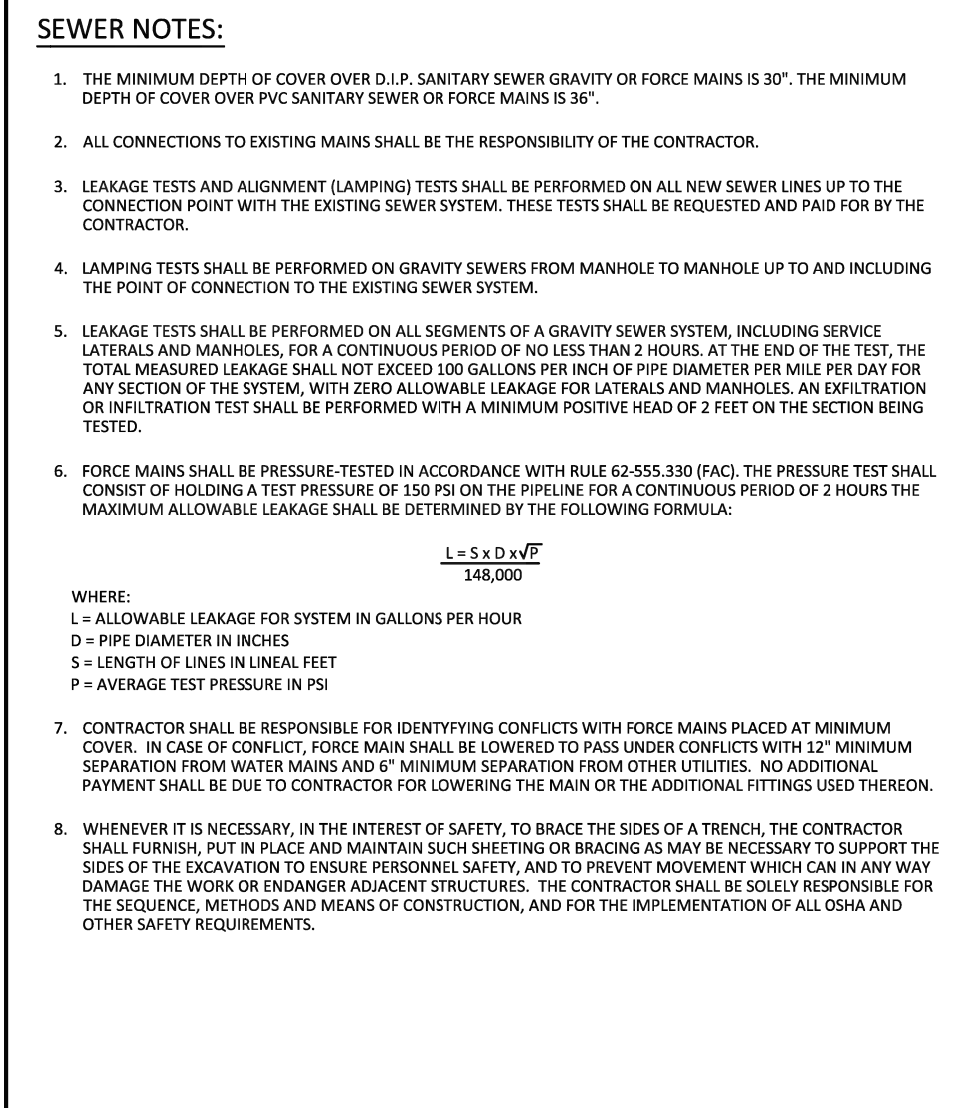
4"

PIPE OUTSIDE DIAMETER PLUS 4" ALL AROUND WITH 10' WAF (PRECAST MAINTENANCE ACCESS STRUCTURE ONLY)

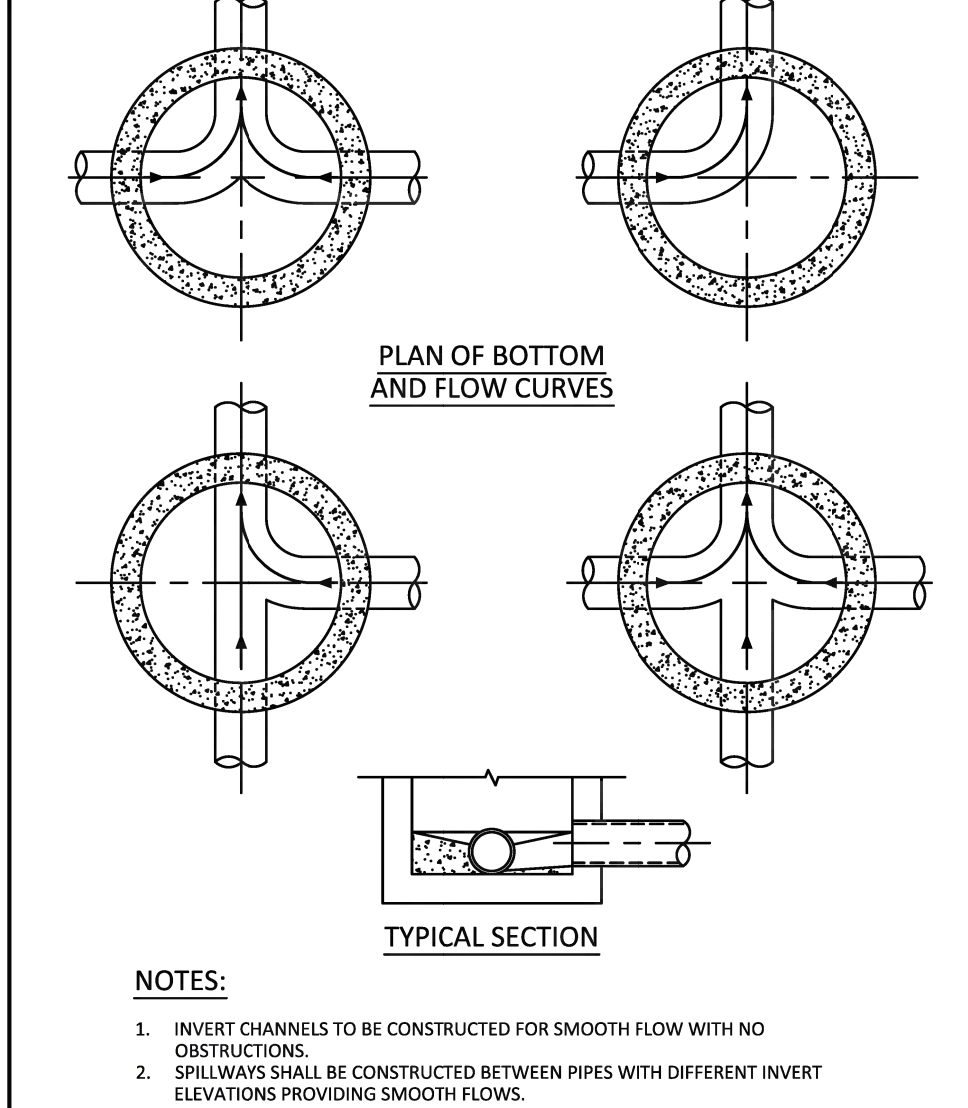
NOTES

1. LIFT HOLES ARE TO BE SEALED WITH 3/2" THICK MORTAR INSIDE AND OUTSIDE AFTER INSTALLATION.
2. MAINTENANCE ACCESS STRUCTURE WALLS TO BE COATED INSIDE AND OUTSIDE WITH 16 MIL THICKNESS COAL TAR EPPOXY.
3. ALL OPENINGS SHALL BE SEALED WITH A WATERPROOF, EXPANDING GROUT. ACTUAL LOCATION AND MAINTENANCE ACCESS STRUCTURE FRAME ELEVATION SHALL BE DETERMINED BY ENGINEER BASED ON AS-BUILT SURVEY DATA.
4. THE CHIMNEY AREA SHALL BE MINIMUM OF 4" AND A MAXIMUM OF 12" IN HEIGHT. A MINIMUM OF 3 COURSES AND MAXIMUM OF 4 COURSES OF BRICK SHALL BE INSTALLED.
5. GRADE RINGS ARE AN ACCEPTABLE ALTERNATIVE TO BRICK. A MINIMUM OF 3 GRADE RINGS SHALL BE INSTALLED. SET IN TWO STIPS OF SEALANT/ADHESIVE COMPOUND ON EACH SEALING FACE.
6. SET MAINTENANCE ACCESS STRUCTURE FRAME ON A BED OF PORTLAND CEMENT AND SILICA SAND. BRING NOTED UP OVER FRAME.

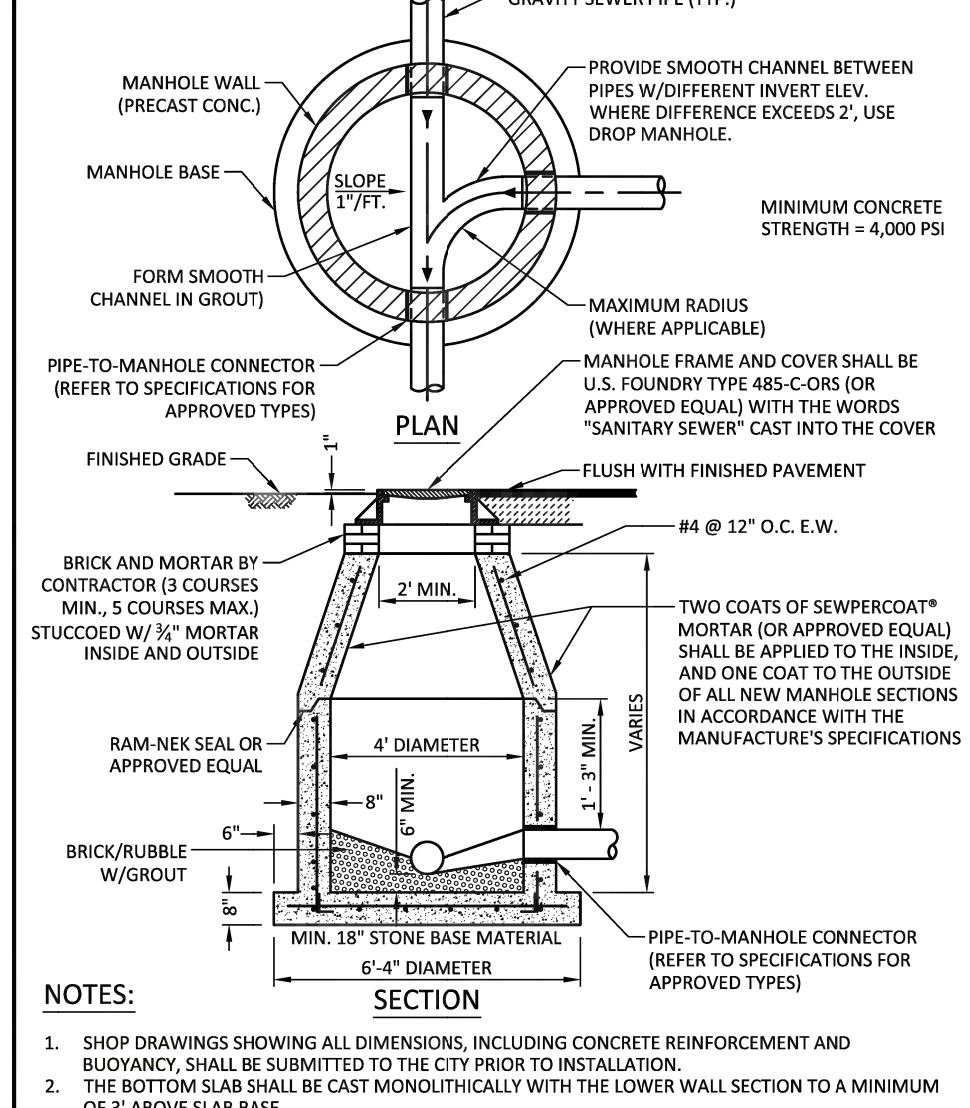
ISSUED: 03/01/994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	AIR RELEASE VALVE WITH MAINTENANCE ACCESS STRUCTURE	DRAWING NO. W-18
APPROVED: XXX		



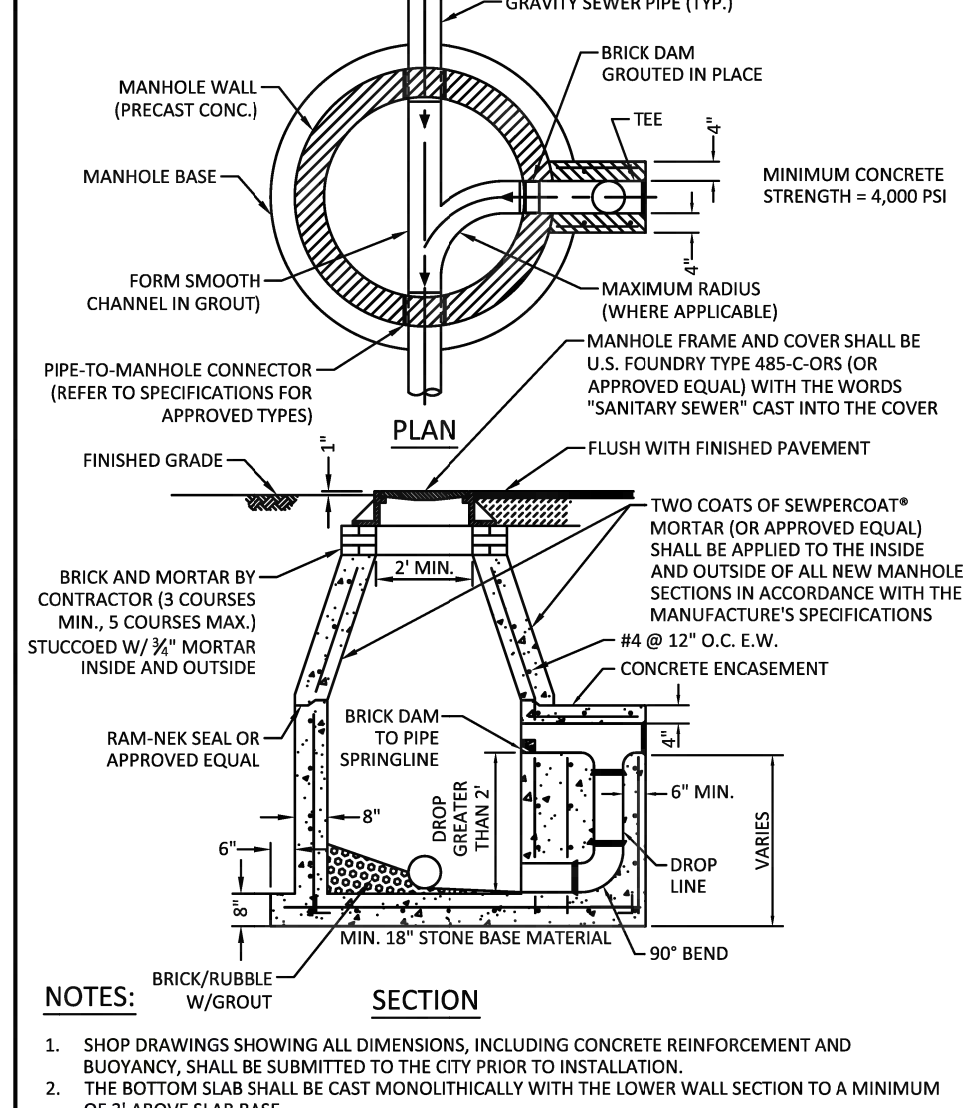
ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	SANITARY SEWER MAIN CONSTRUCTION NOTES	DRAWING NO. S-01
APPROVED: xxx		



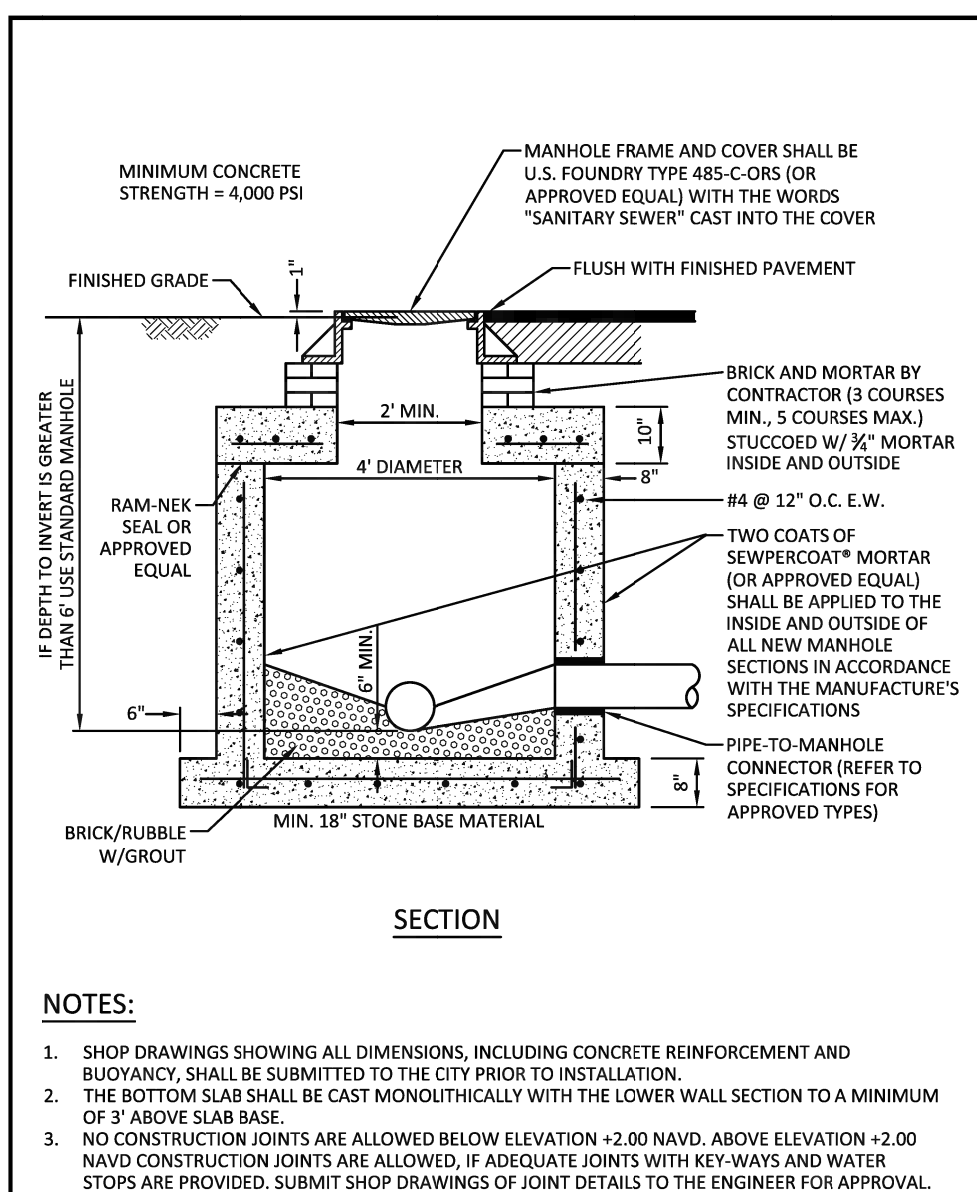
ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2004
DRAWN: EAM	MANHOLE FLOW PATTERNS	DRAWING NO.
APPROVED: XXX		S-02



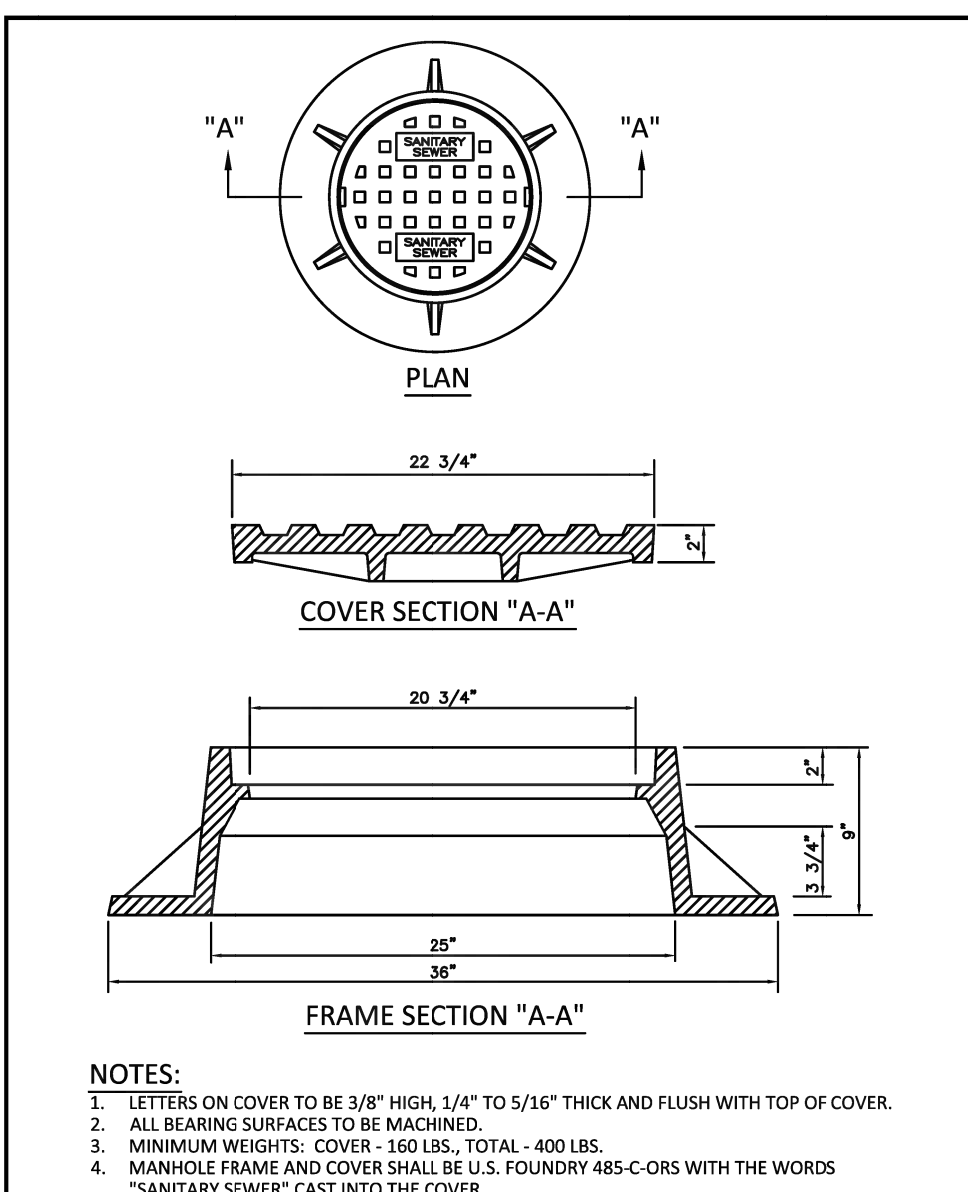
ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 07/18/2011
DRAWN: EAM	STANDARD PRECAST MANHOLE	DRAWING NO.
APPROVED: XXX		S-03



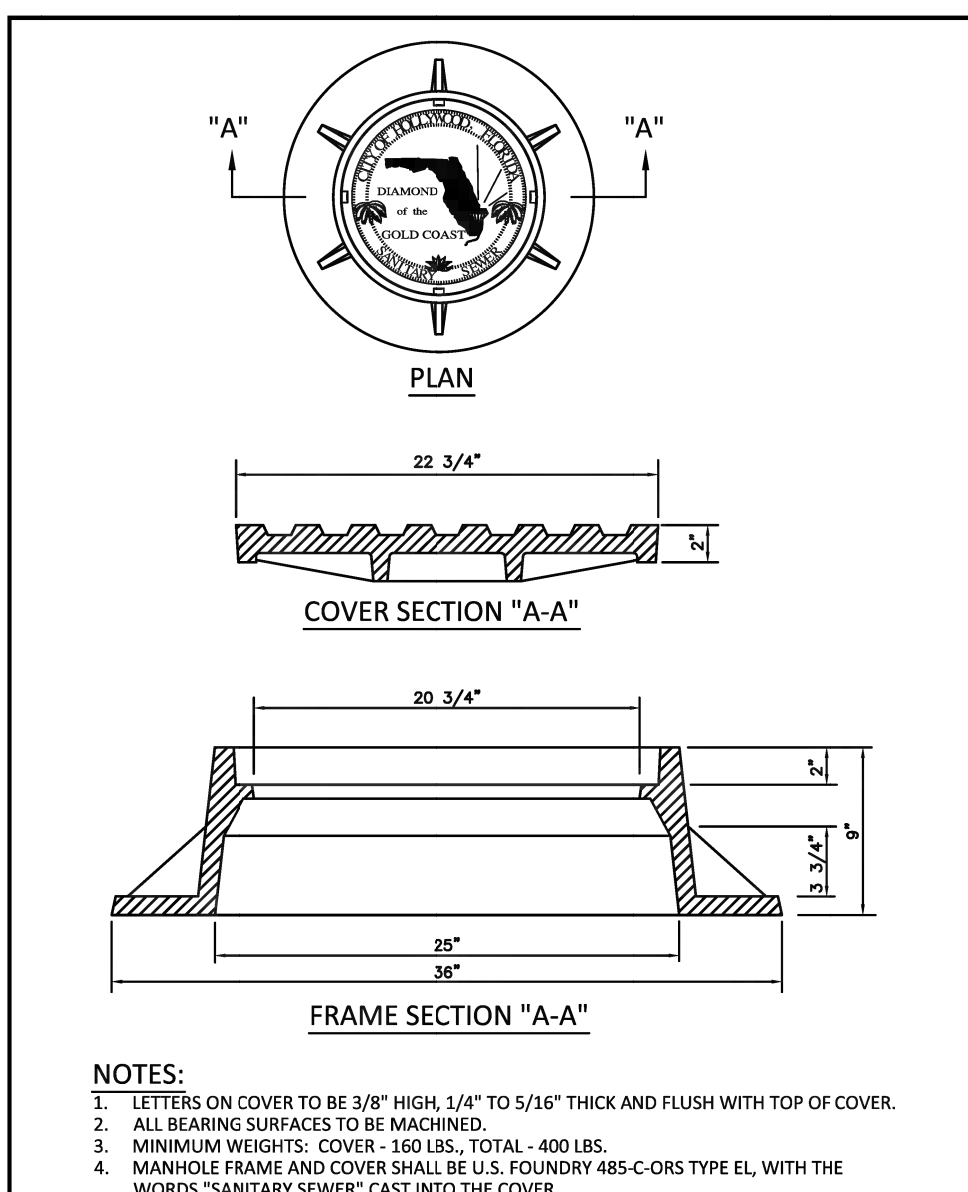
ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 07/18/20
DRAWN: EAM	DROP MANHOLE	DRAWING NO.
APPROVED: XXX		S-04



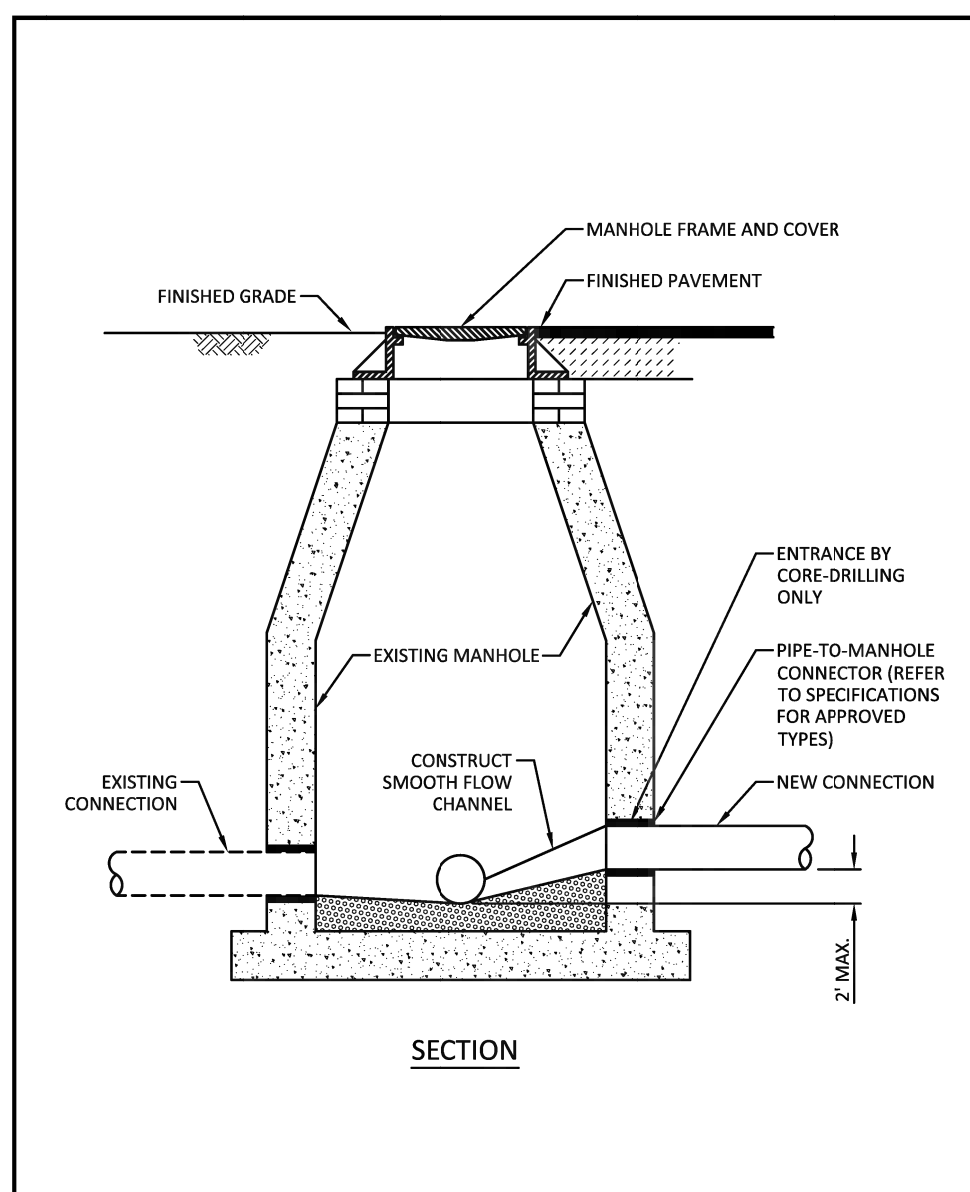
ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 07/18/2018
DRAWING: EAM	SHALLOW MANHOLE	DRAWING NO.
APPROVED: XOX		S-05



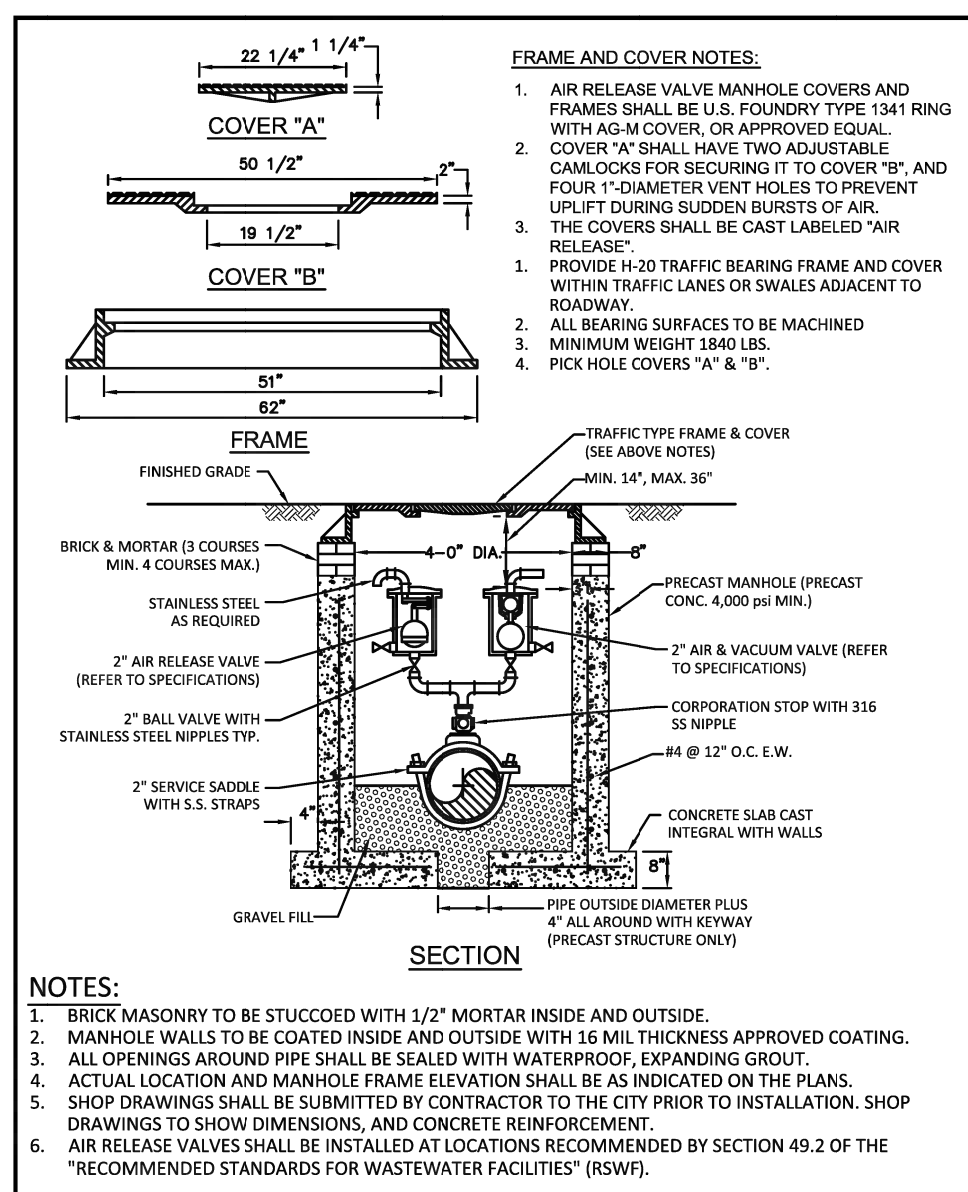
ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	MANHOLE FRAME AND COVER	DRAWING NO.
APPROVED: XXX		S-06



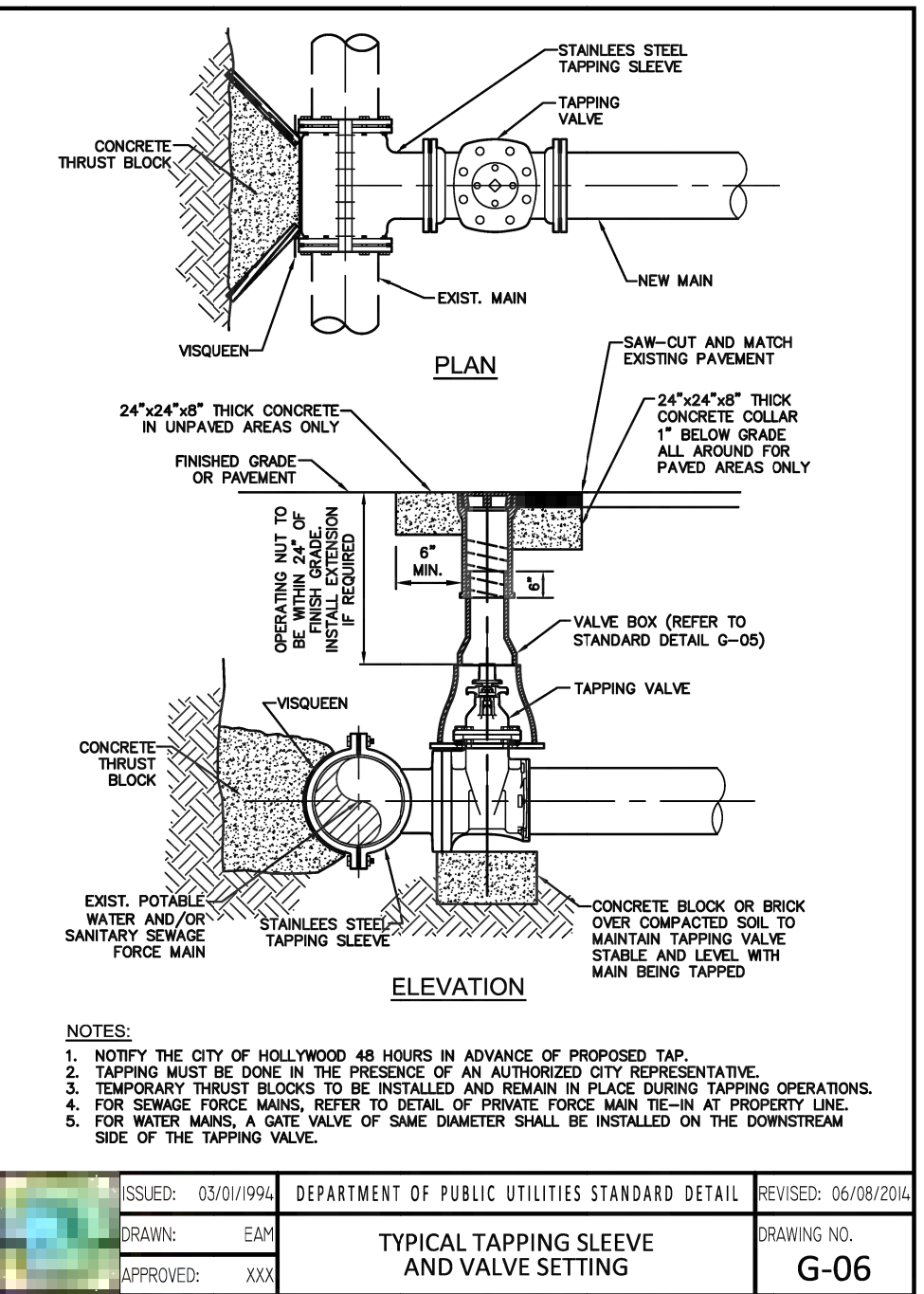
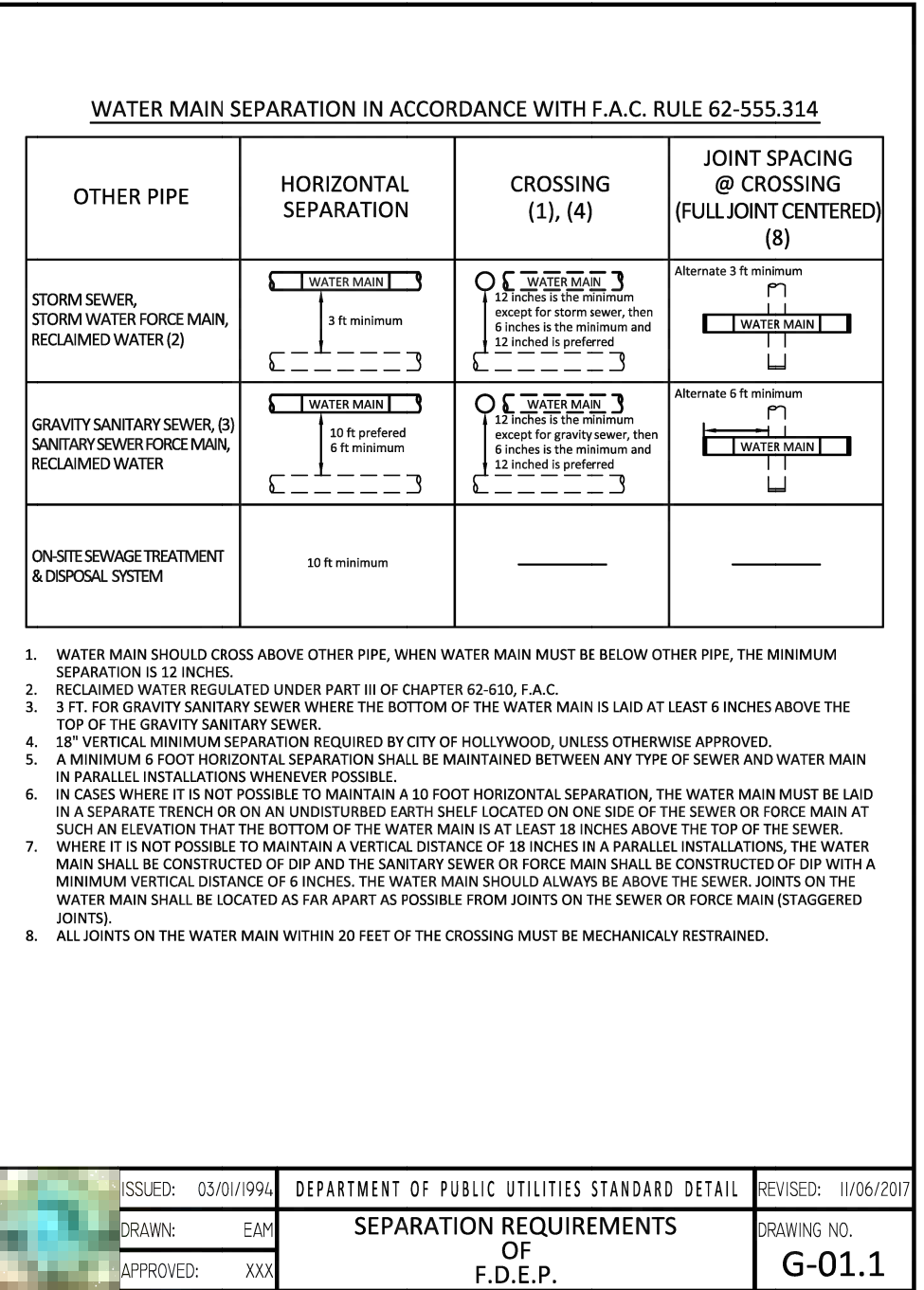
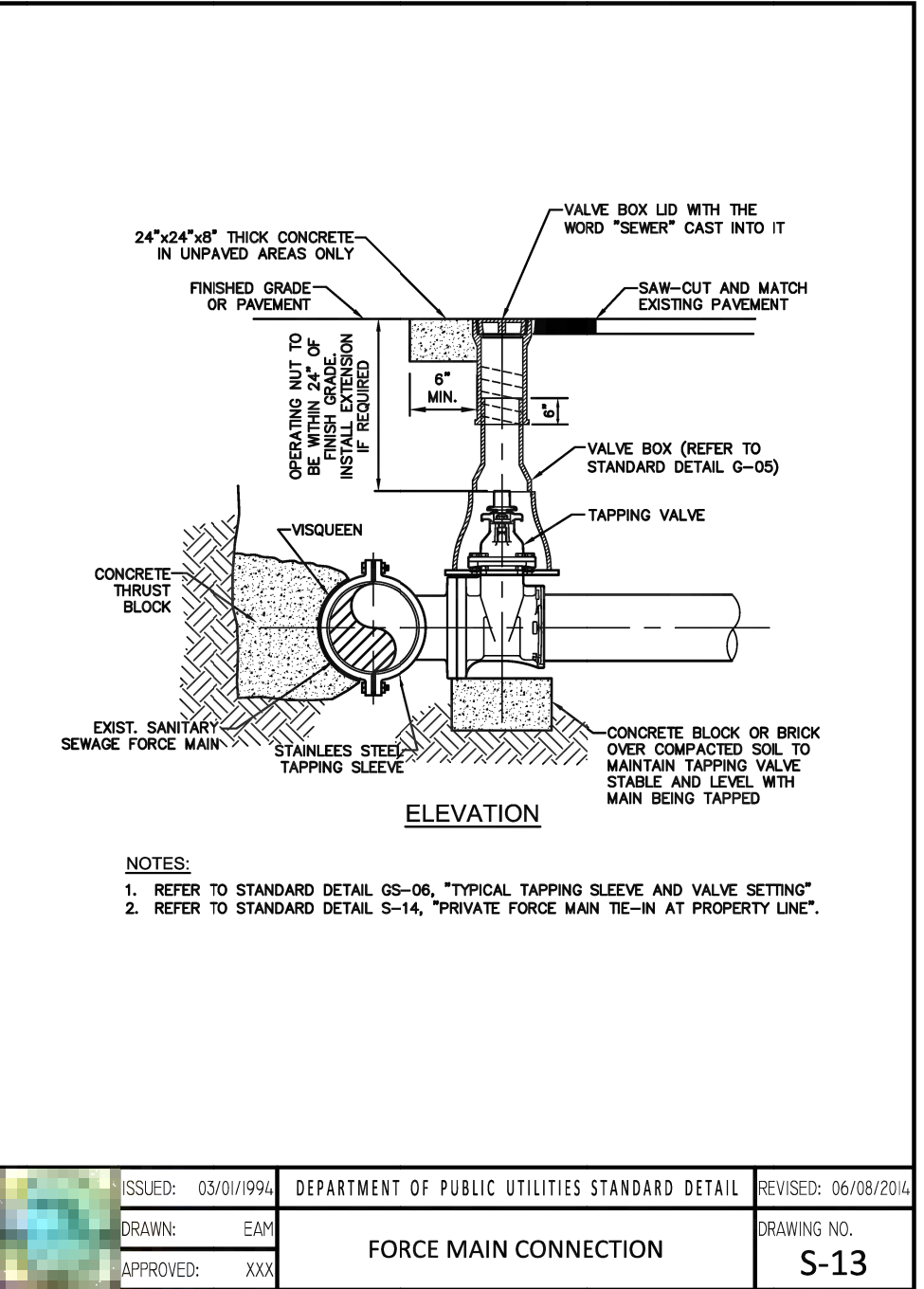
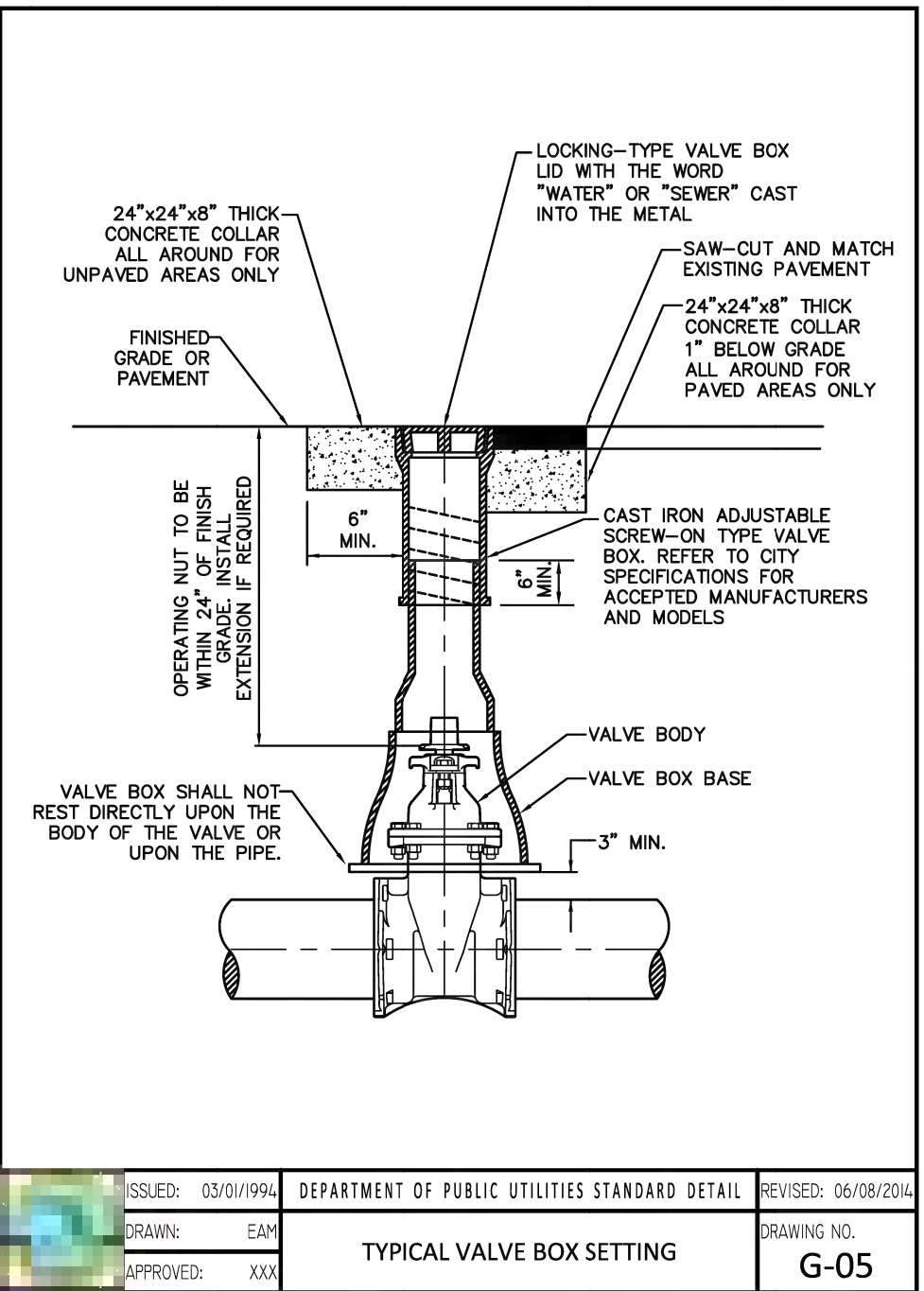
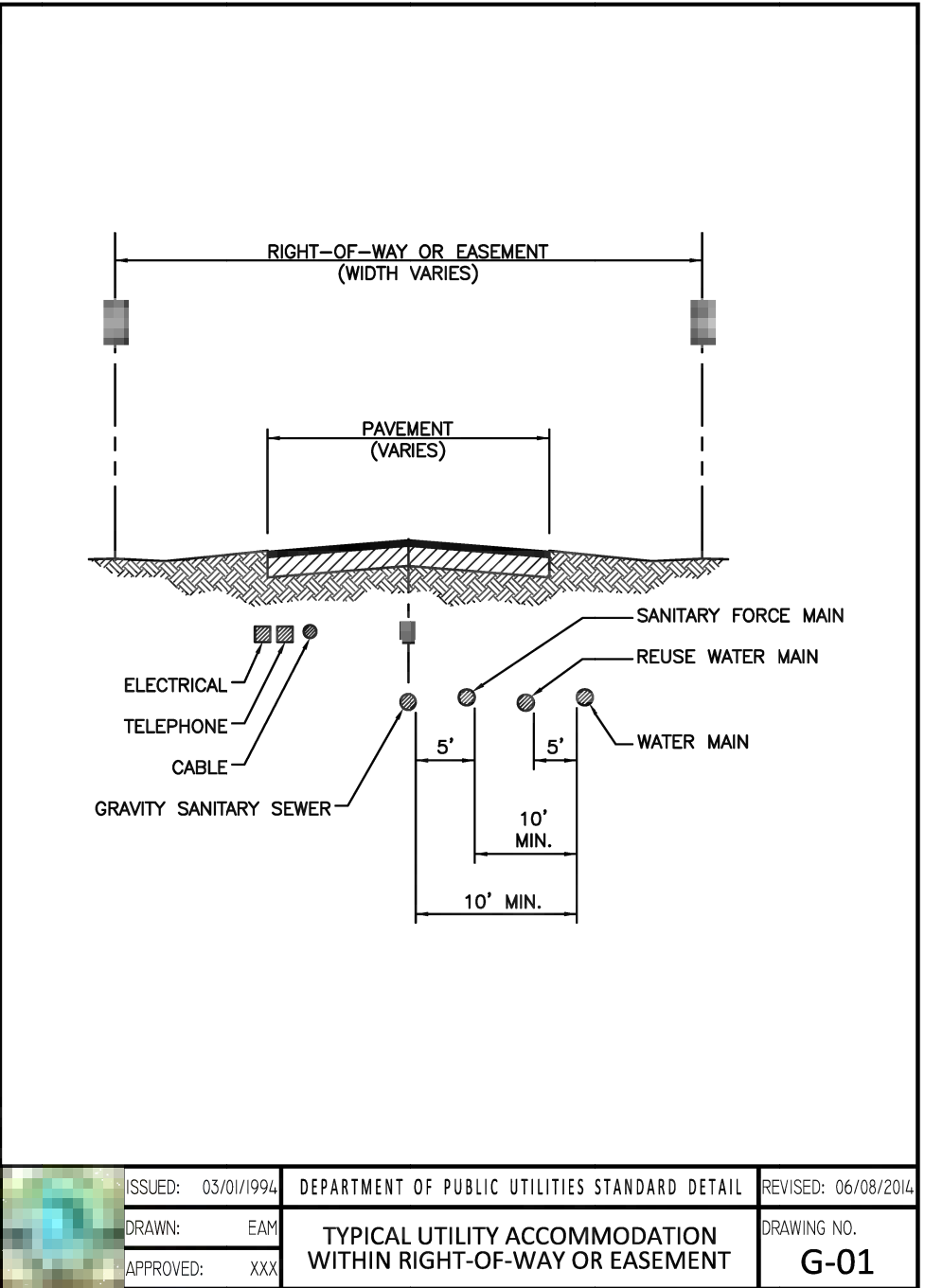
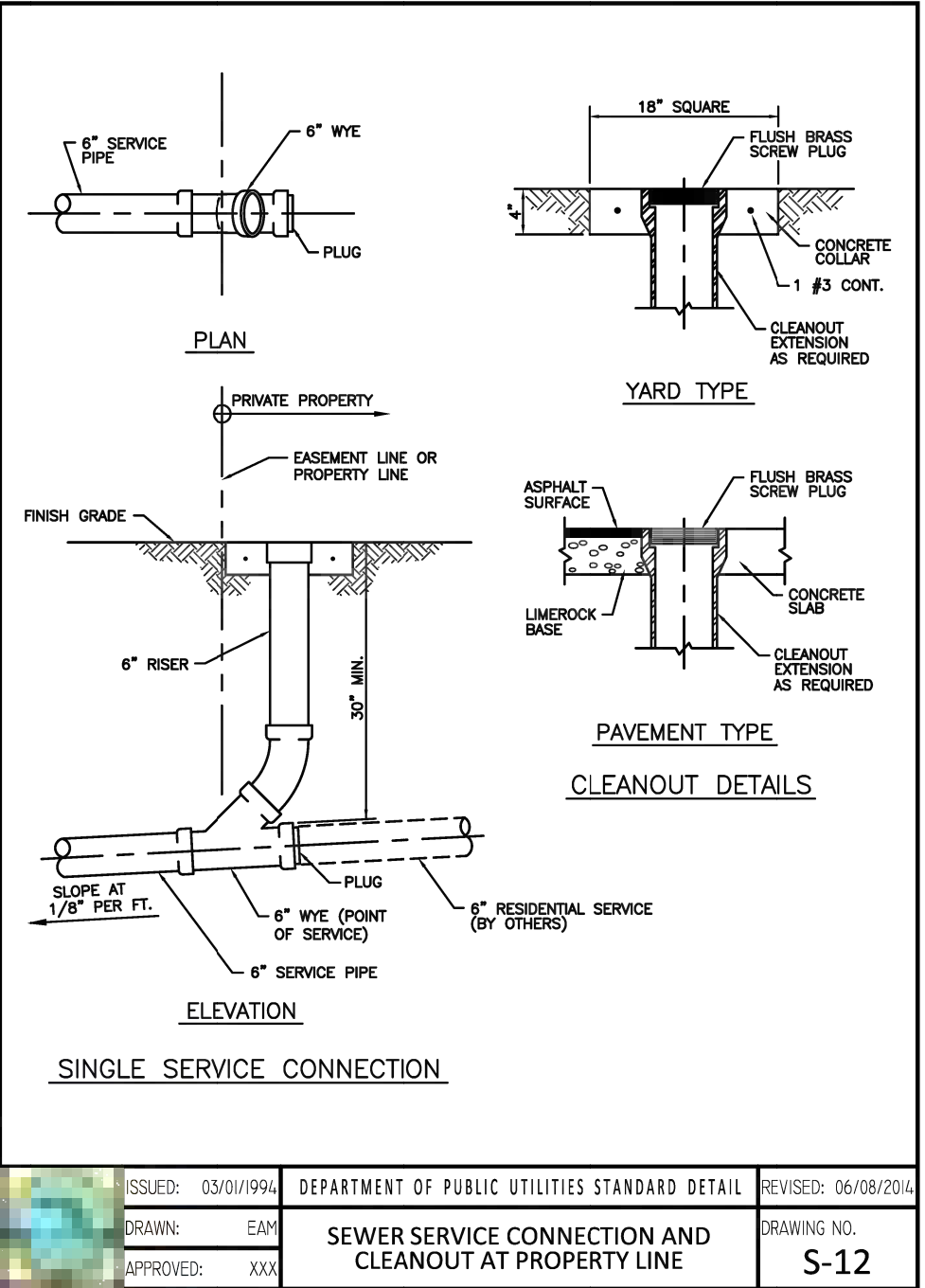
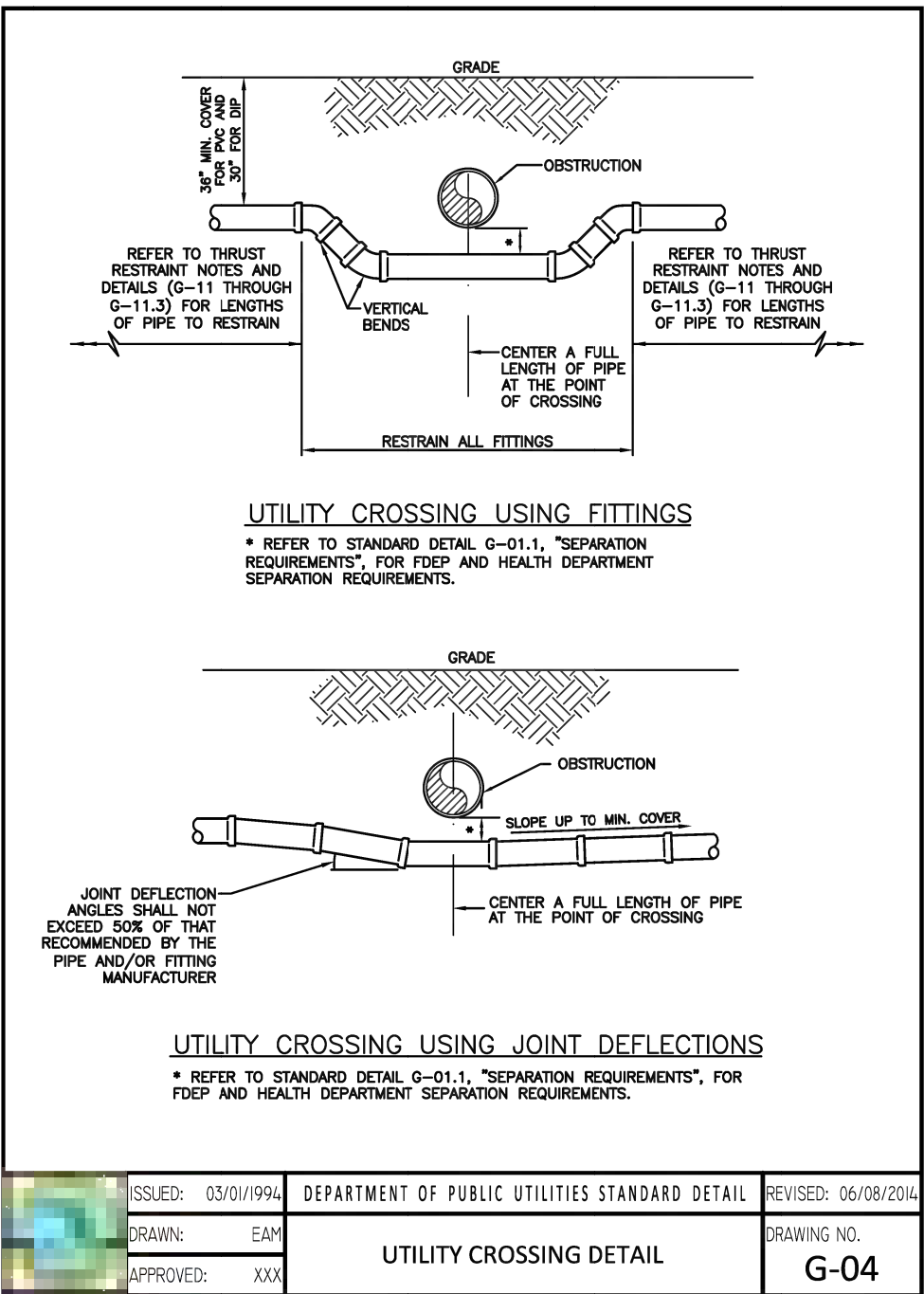
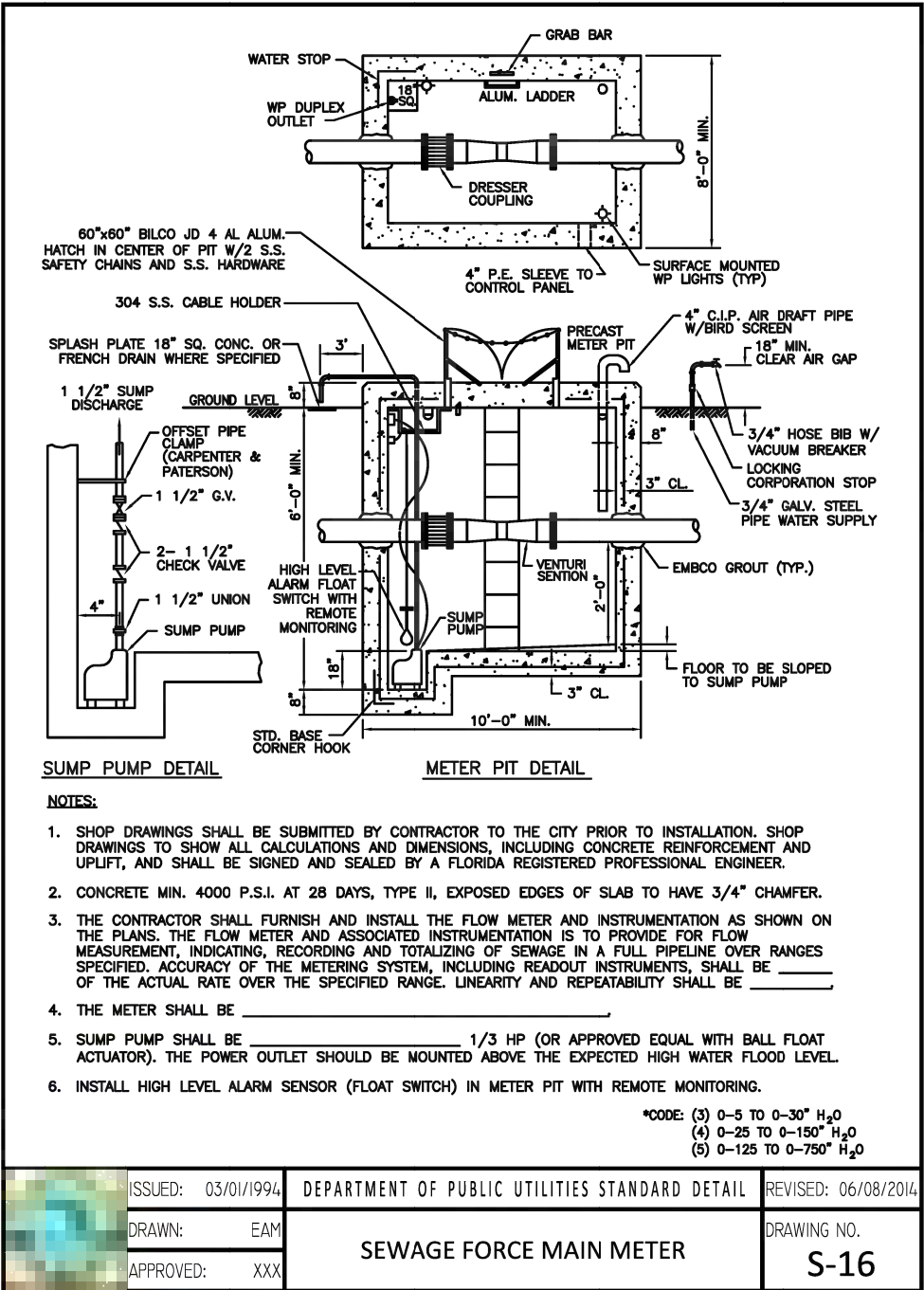
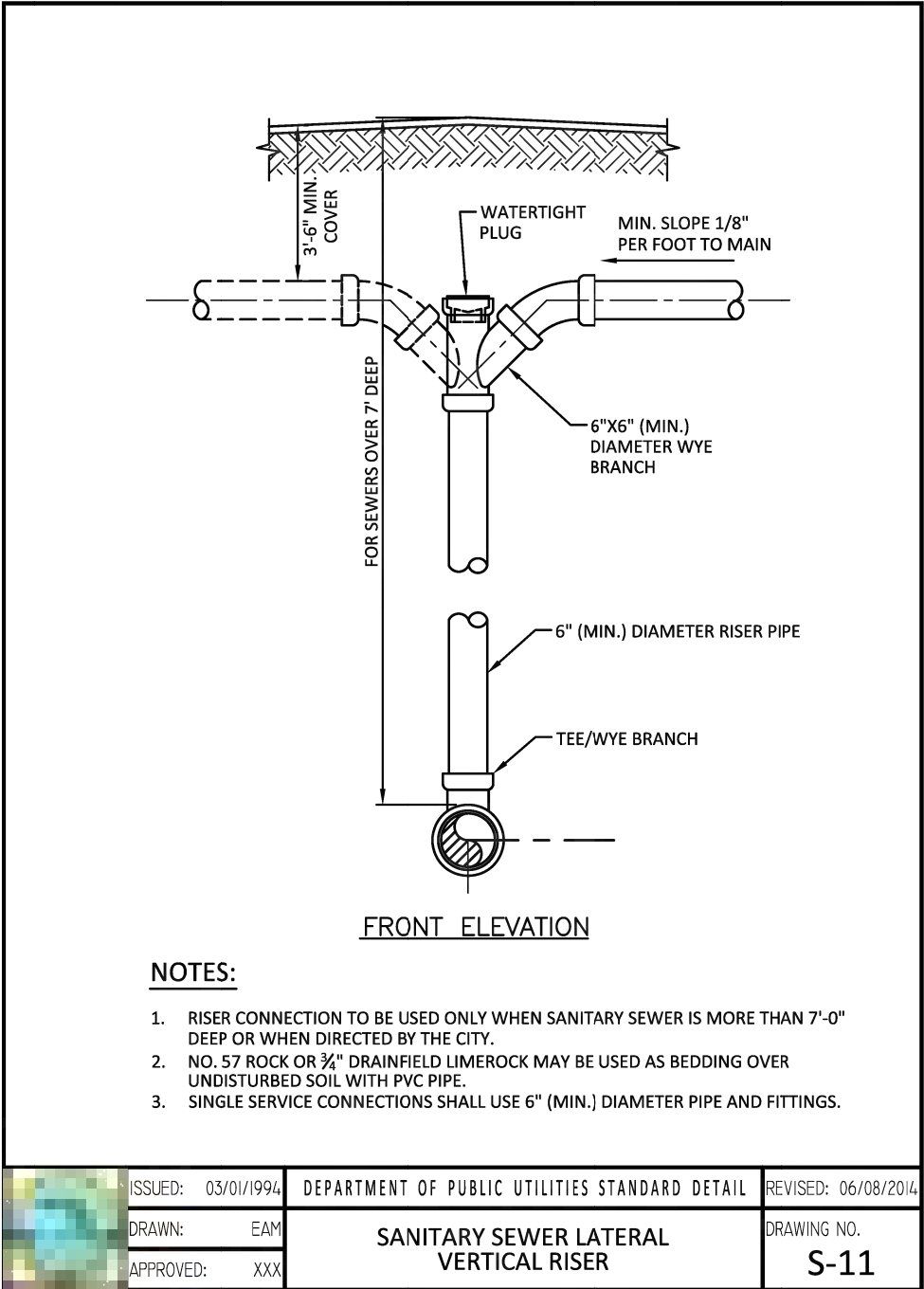
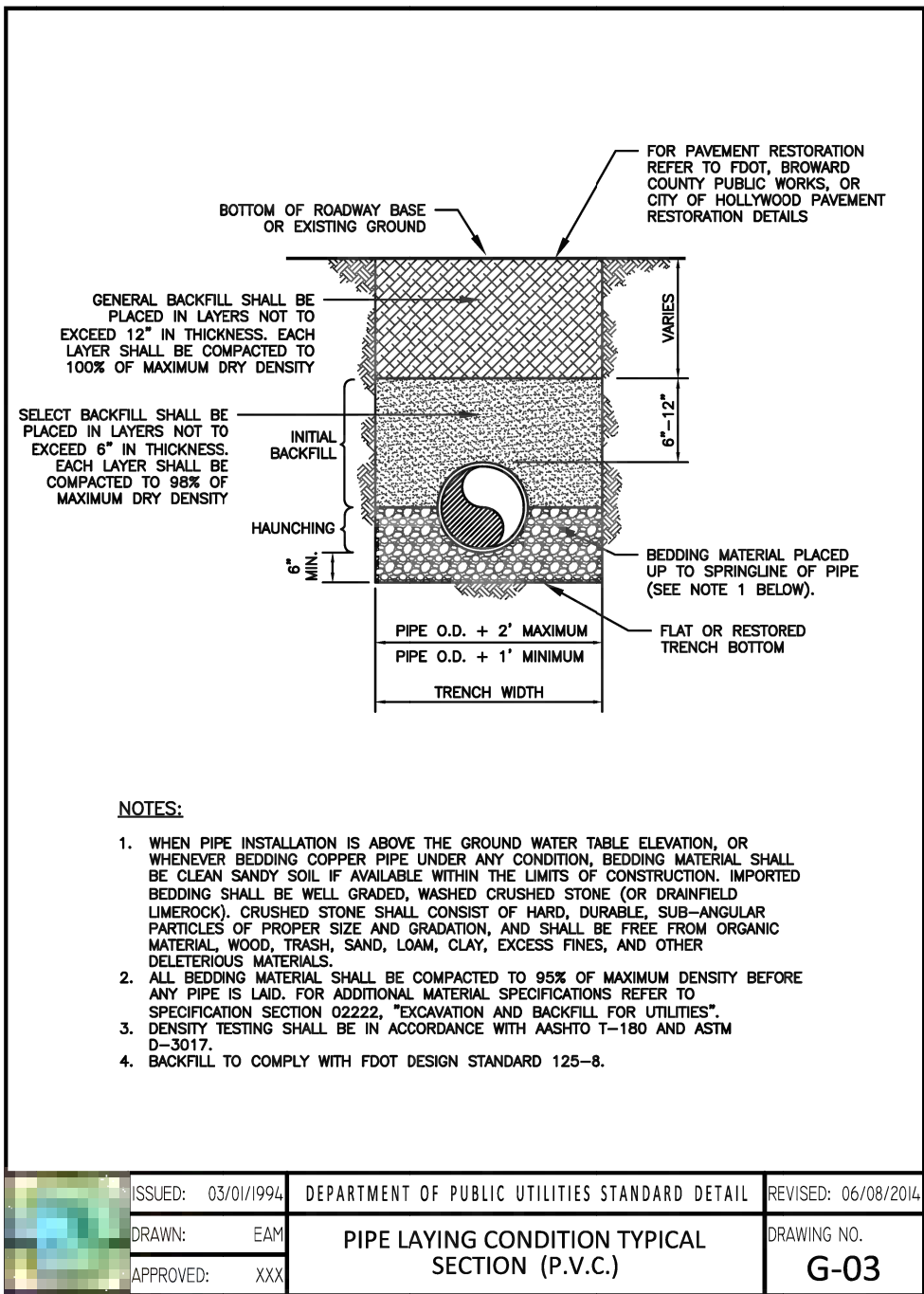
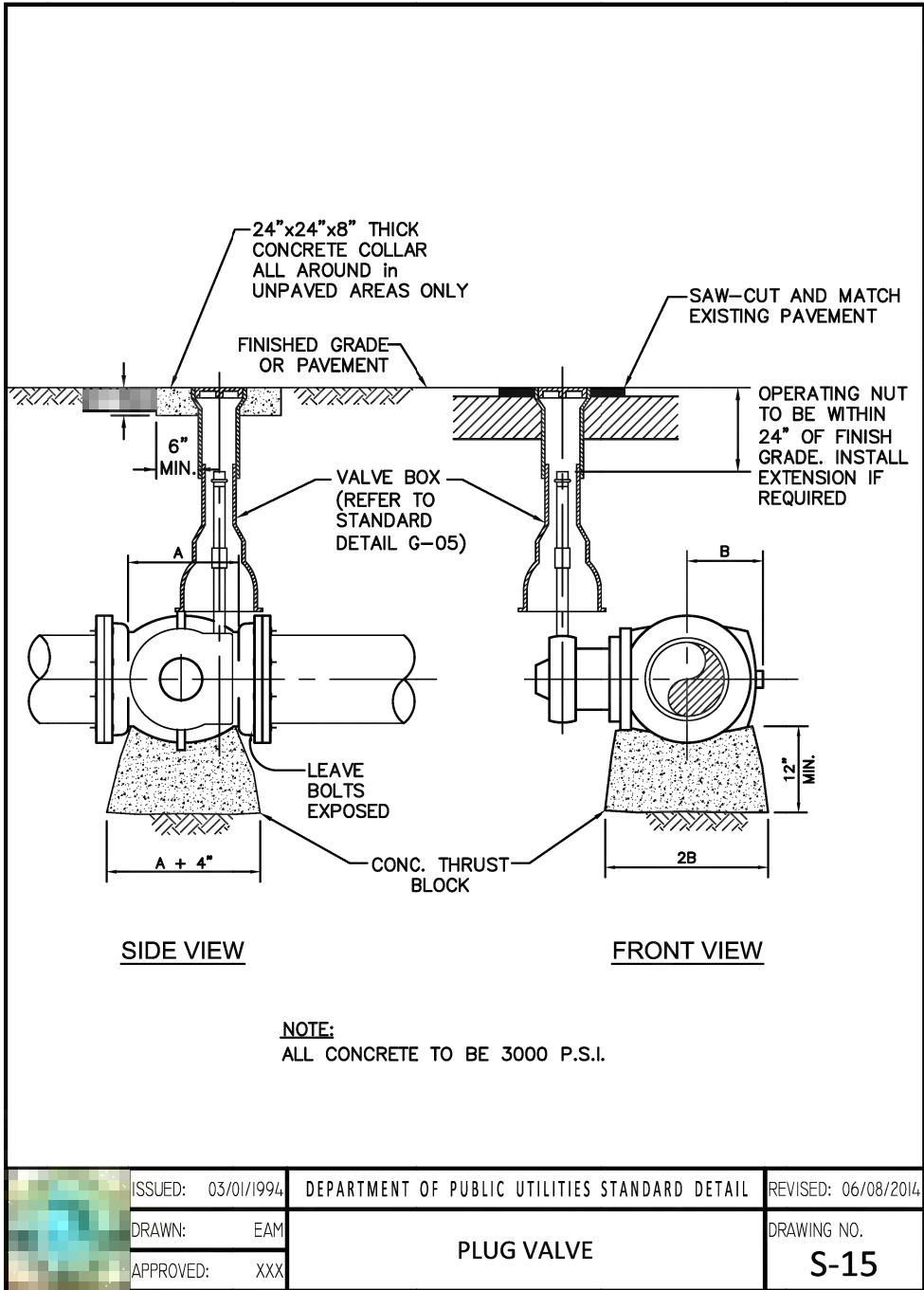
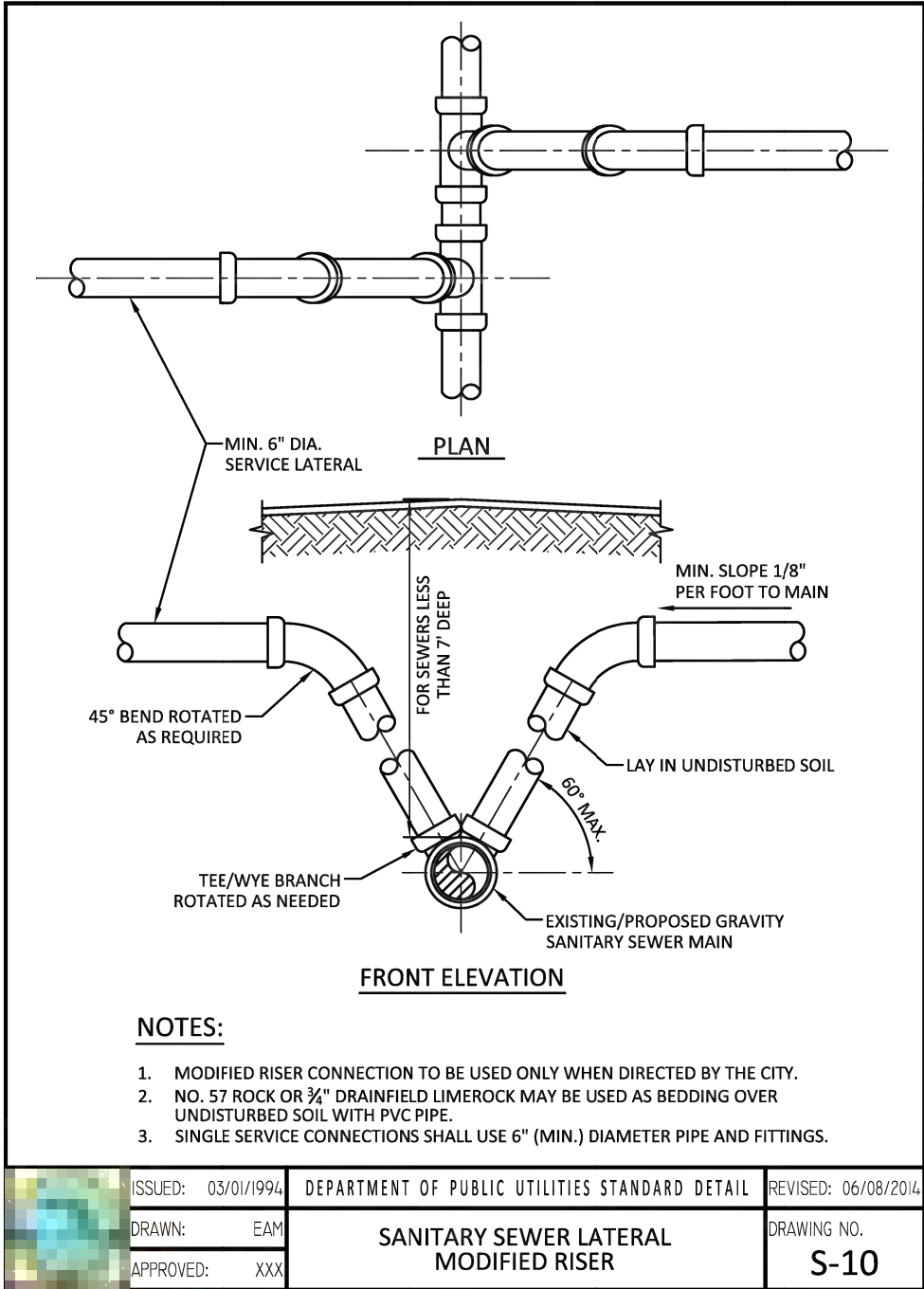
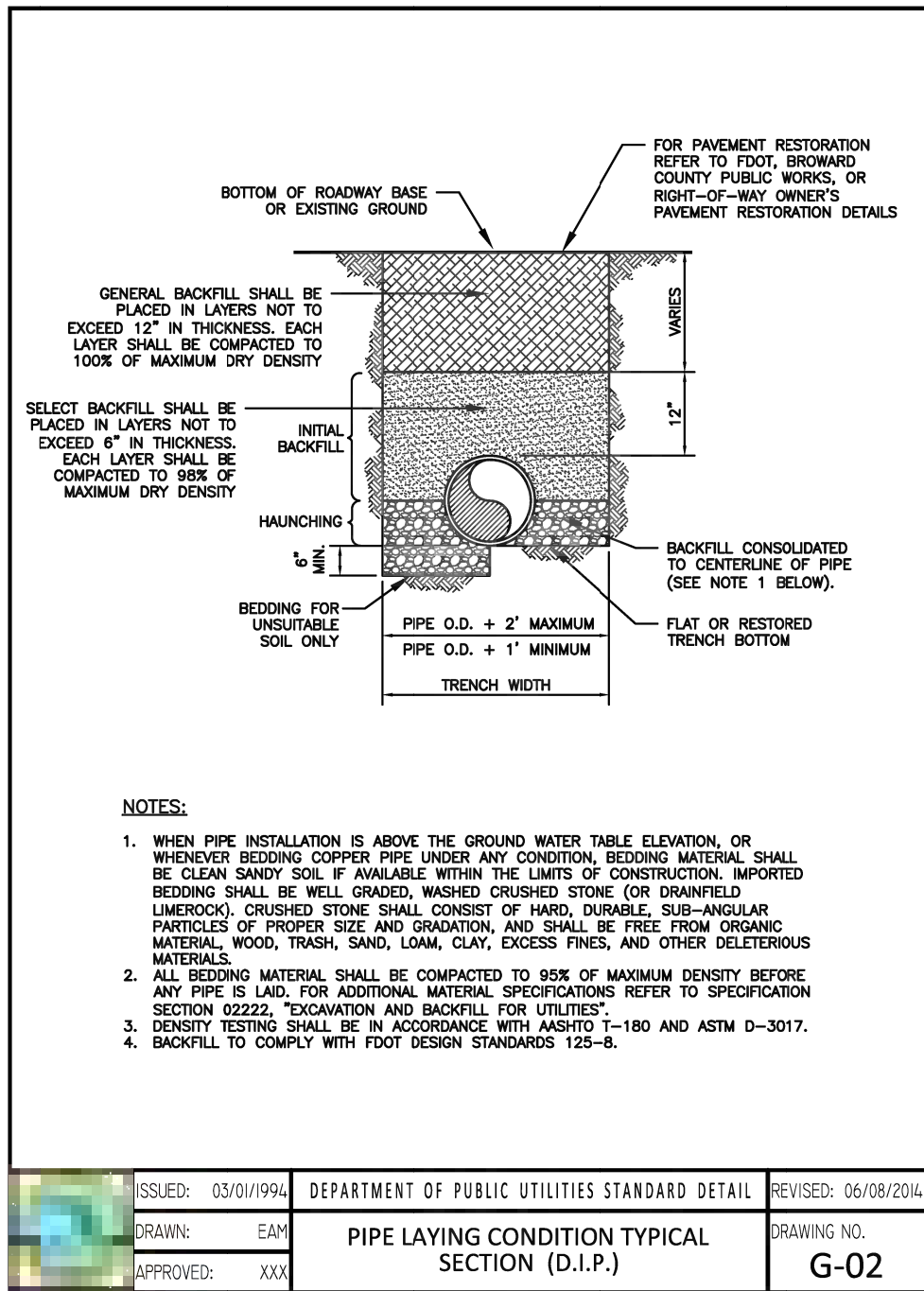
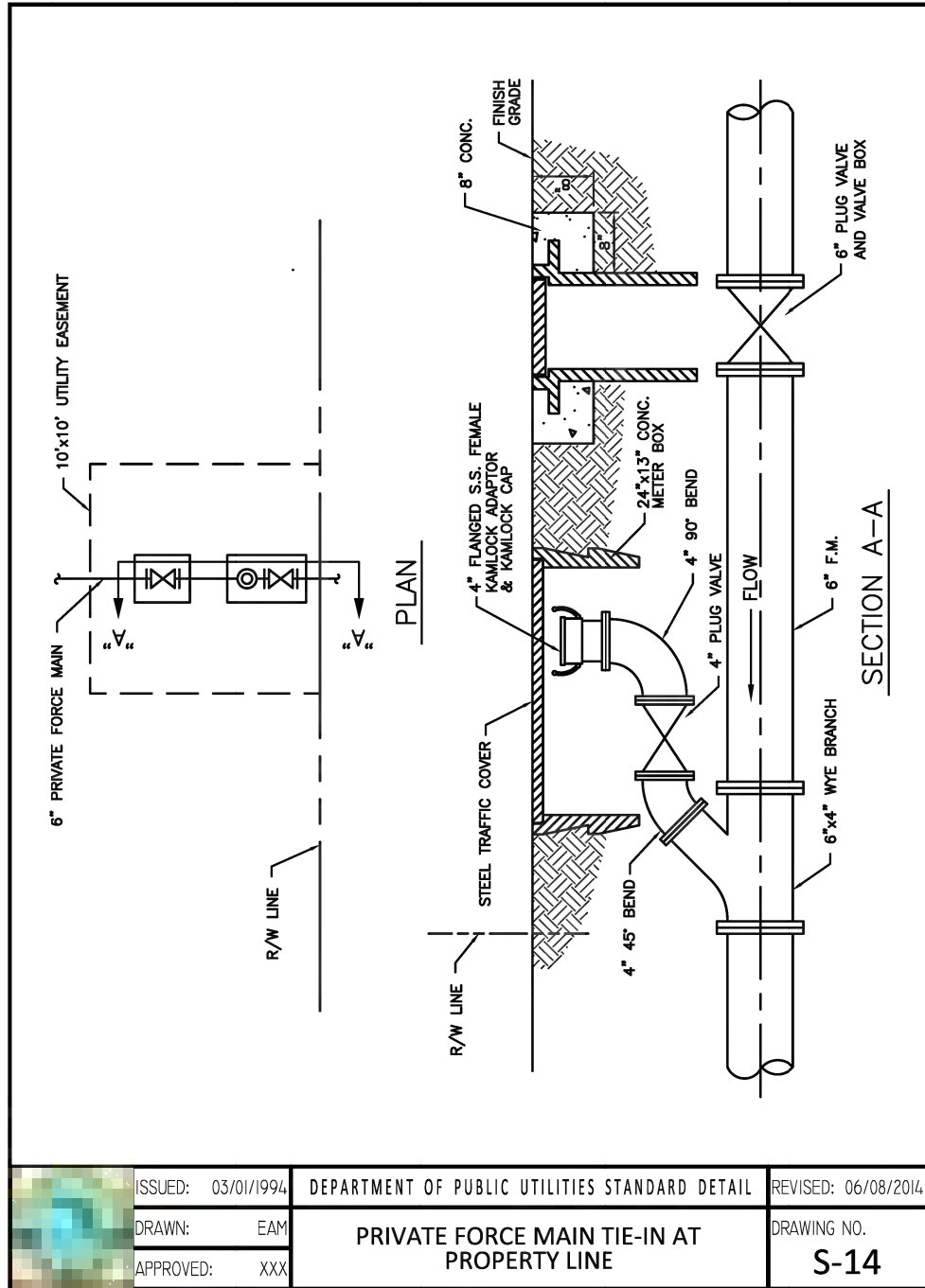
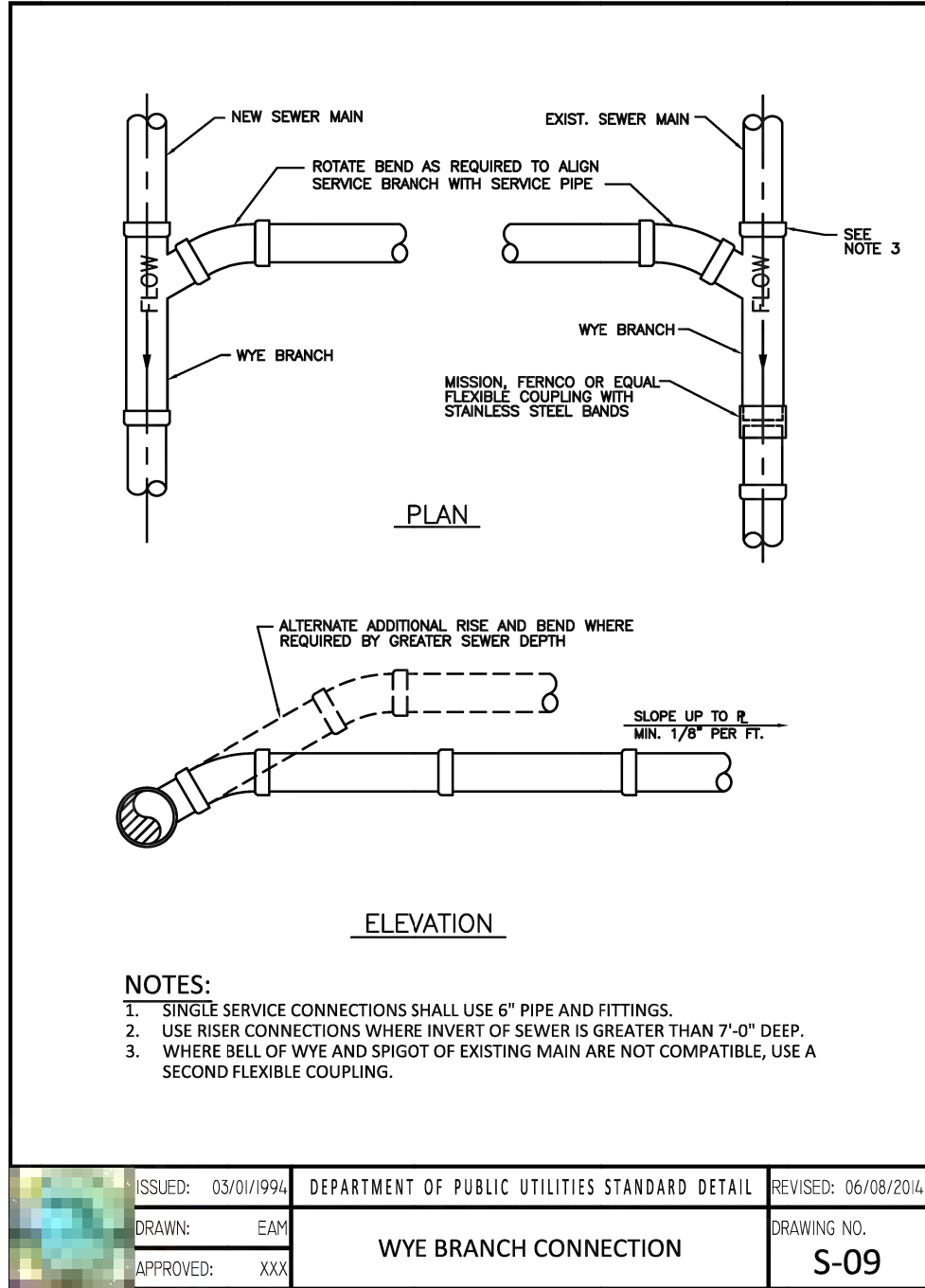
ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM	MANHOLE FRAME AND COVER CITY OF HOLLYWOOD	DRAWING NO.
APPROVED: XXX		S-06.1



ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2011
DRAWN: EAM	NEW CONNECTION TO EXISTING MANHOLE	DRAWING NO.
APPROVED: XXX		S-07

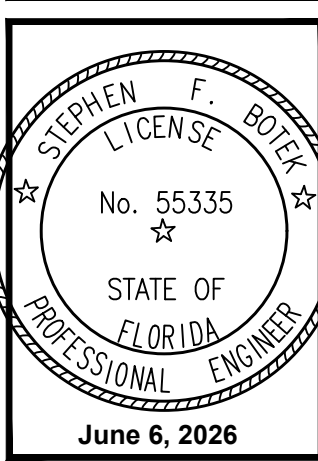


ISSUED: 03/01/1994	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 07/25/2010
DRAWN: EAM	AUTOMATIC AIR RELEASE VALVE (A.R.V.) AND MANHOLE	DRAWING NO.
APPROVED: XXX		S-08



BTE REF DATE: 6-6-2020

REVISIONS	DATE	#



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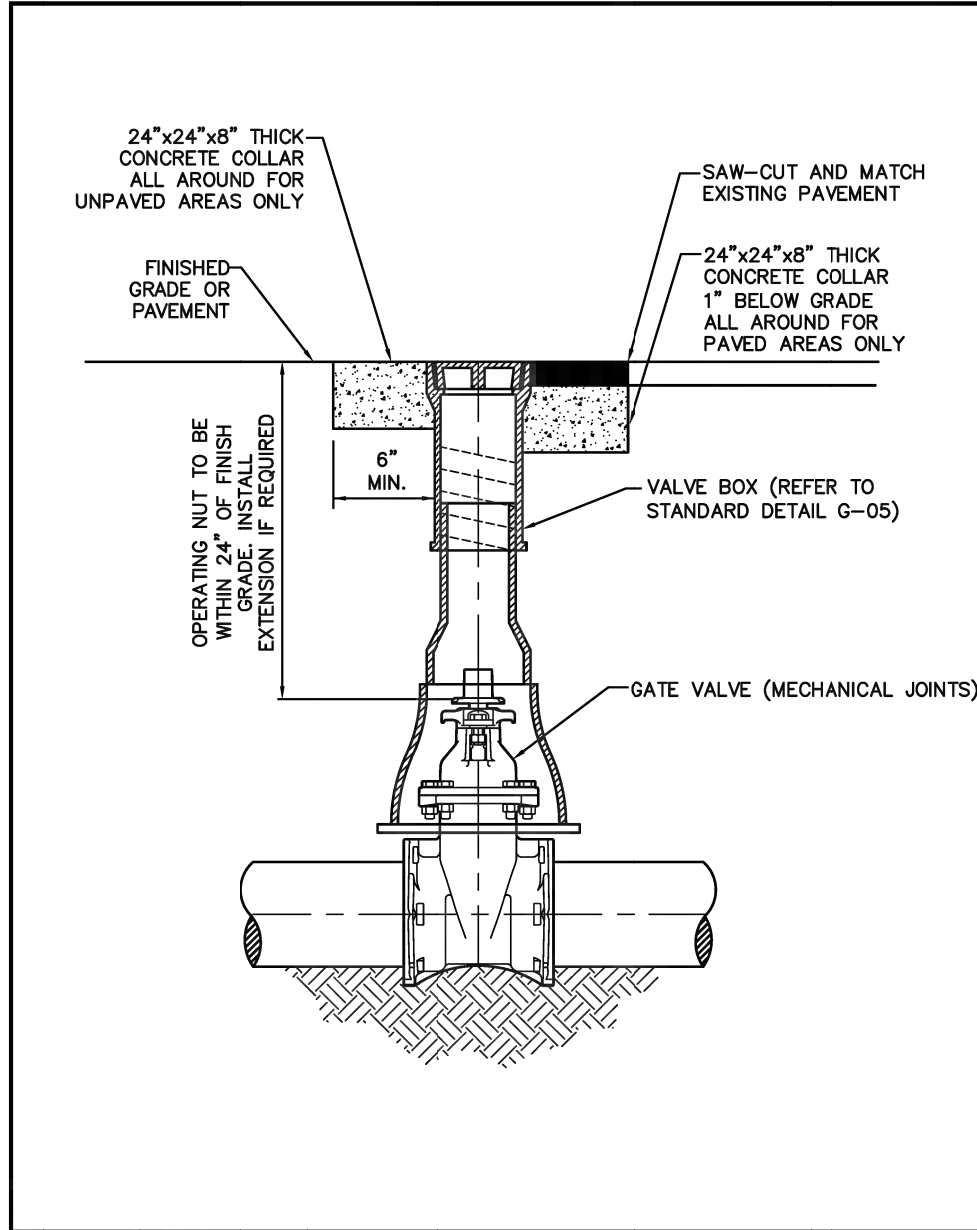
WATER AND SANITARY SEWER DETAILS
EMERALD HILLS
Site C - North 46th Avenue - East
Hollywood, Florida

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BTE PROJECT #:
22-0401

PROJECT DATE:
6-5-2024

SHEET #:
CC-WS-7



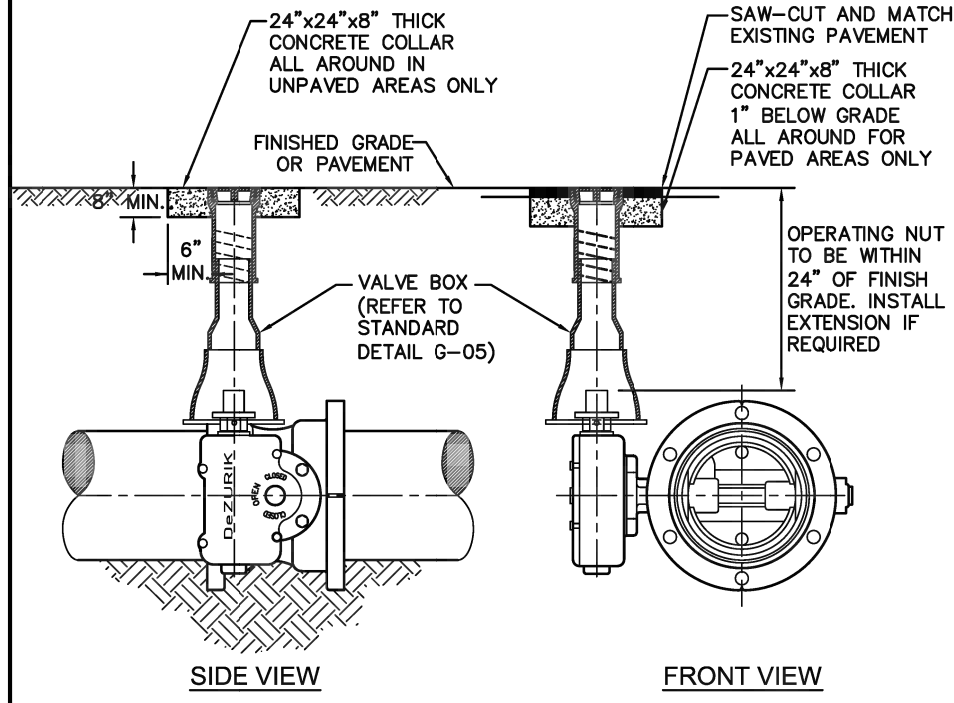
ISSUED: 03/01/99A	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM		
APPROVED: XXX		
TYPICAL GATE VALVE AND VALVE BOX SETTING		DRAWING NO. G-07

RESILIENT SEATED GATE VALVE SPECIFICATIONS:

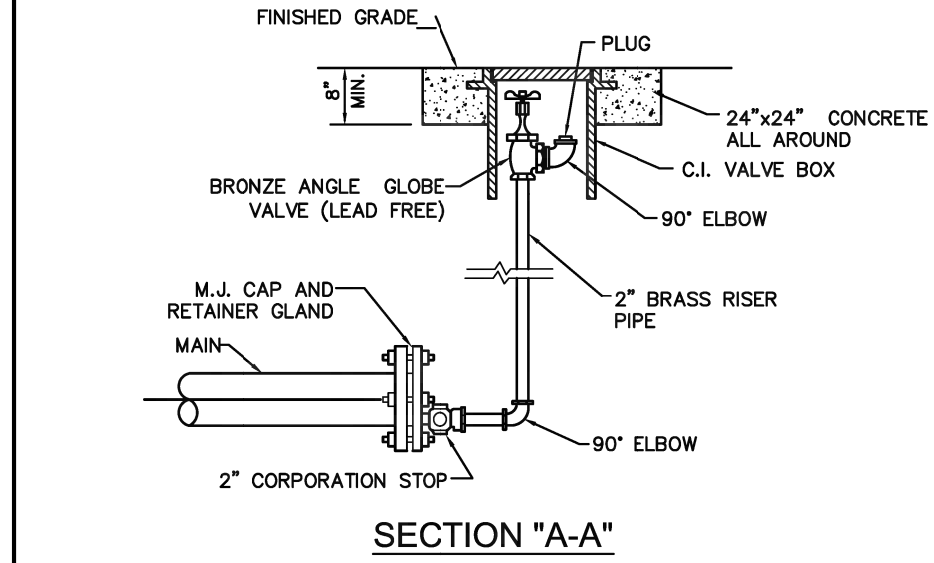
4" THROUGH 12" SIZE (WATER AND FORCE MAIN)

- GATE VALVES SHALL BE RESILIENT SEATED, MANUFACTURED TO MEET OR EXCEED THE REQUIREMENTS OF AWWA C509 (LATEST REVISION) AND IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS.
- VALVES SHALL HAVE AN UNOBSTRUCTED WATERWAY EQUAL TO OR GREATER THAN THE FULL NOMINAL DIAMETER OF THE VALVE.
- THE VALVES ARE TO BE NON-RISING STEM WITH THE STEM MADE OF CAST, FORGED OR ROLLED BRONZE SHOWN IN AWWA C509. TWO STEM SEALS SHALL BE PROVIDED AND SHALL BE OF THE O-RING TYPE, ONE ABOVE AND ONE BELOW THE THRUST COLLAR WITH LUBRICANT BETWEEN O-RING.
- THE STEM NUT, ALSO MADE OF BRONZE, MAY BE INDEPENDENT OF THE GATE OR CAST INTEGRALLY WITH THE GATE. IF THE STEM NUT IS CAST INTEGRALLY, THE THREADS SHALL BE STRAIGHT AND TRUE WITH THE AXIS OF THE STEM TO AVOID BINDING DURING THE OPENING OR CLOSING CYCLE.
- THE SEALING MECHANISM SHALL CONSIST OF A CAST IRON GATE HAVING A VULCANIZED SYNTHETIC RUBBER COATING OR A RUBBER SEAT MECHANICALLY RETAINED ON THE GATE. THE RESILIENT SEALING MECHANISM SHALL PROVIDE ZERO LEAKAGE AT THE WATER WORKING PRESSURE WHEN INSTALLED WITH THE LINE FLOW IN EITHER DIRECTION.
- A 2-INCH SQUARE WRENCH NUT SHALL BE PROVIDED FOR OPERATING THE VALVE.
- ALL VALVES ARE TO BE SUPPLIED COMPLETE AND READY FOR INSTALLATION INCLUDING, BUT NOT LIMITED TO ALL NUTS, BOLTS RINGS AND RUBBERS.
- ALL VALVES ARE TO BE TESTED IN STRICT ACCORDANCE WITH AWWA C509 (LATEST REVISION).

ISSUED: 03/01/99A	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM		
APPROVED: XXX		
RESILIENT SEATED GATE VALVE SPECIFICATIONS		DRAWING NO. G-07.1

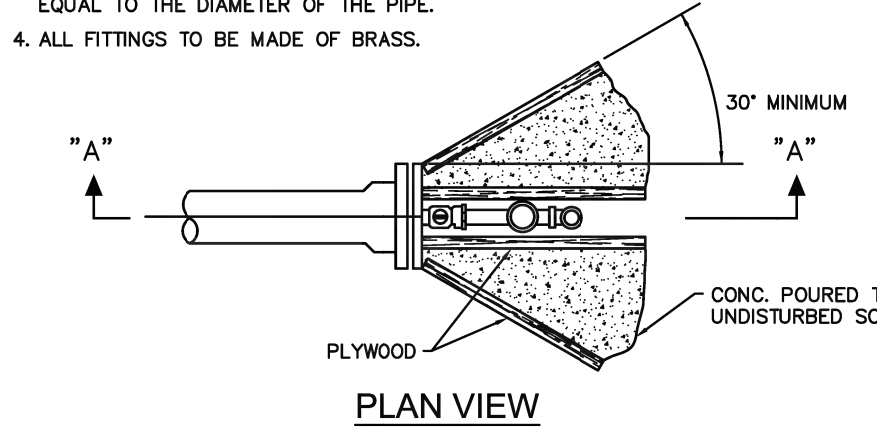


ISSUED: 03/01/99A	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM		
APPROVED: XXX		
TYPICAL BUTTERFLY VALVE SETTING		DRAWING NO. G-08

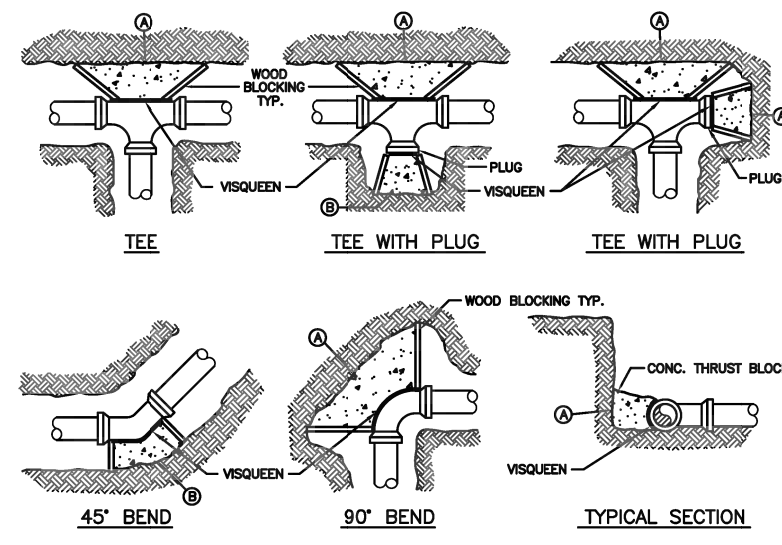


NOTES:

- PIPE JOINT COMPOUND SHALL BE APPLIED TO MALE THREADS ONLY.
- 2" TAP IN BOTTOM OF CAP ON MAIN.
- PLYWOOD AND CONCRETE TO HAVE A HEIGHT EQUAL TO THE DIAMETER OF THE PIPE.
- ALL FITTINGS TO BE MADE OF BRASS.



ISSUED: 03/01/99A	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 11/06/2017
DRAWN: EAM		
APPROVED: XXX		
TERMINAL BLOW-OFF DETAIL		DRAWING NO. G-09



MINIMUM CONCRETE THRUST BLOCKING BEARING ON UNDISTURBED MATERIAL (SQ. FT.)	
MARK	PIPE SIZE
A	4\"
B	6\"
	8\"
	10\"
	12\"

NOTES:

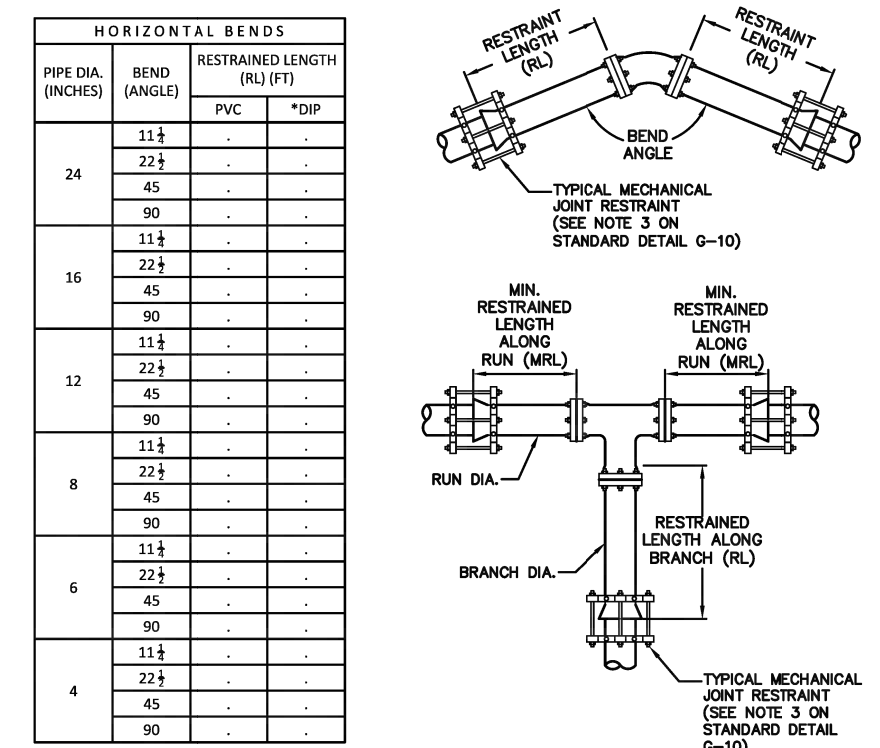
- THRUST BLOCKS ARE TO BE USED IN COMBINATION WITH, AND NOT IN LIEU OF, MECHANICAL JOINT RESTRAINTS AS REQUIRED BY THE CITY. REFER TO THRUST RESTRAINT DESIGN TABLE IN STANDARD DETAIL G-10.
- THE AREAS IN THE TABLE ARE BASED ON _____ POUNDS PER SQUARE FOOT SOIL BEARING AGAINST THE UNDISTURBED TRENCH WALL AND ARE TO REPRESENT THE MINIMUM VERTICAL PROJECTED AREA AT THE THRUST BLOCK IN A PLANE PERPENDICULAR TO THE LINE BISECTING THE INCLUDING ANGLE OF THE FITTING.
- POUR THRUST BLOCKS AGAINST UNDISTURBED MATERIAL. WHERE TRENCH WALL HAS BEEN DISTURBED, EVACUATE LOOSE MATERIAL AND EXTEND THRUST BLOCK TO UNDISTURBED MATERIAL.
- ON BENDS AND TEES, EXTEND THRUST BLOCKS FULL LENGTH OF FITTING.
- DO NOT COVER COUPLINGS OR JOINTS WITH CONCRETE.
- CONCRETE TO BE 2500 P.S.I. MINIMUM 28 DAY STRENGTH.
- TABLE TO BE COMPLETED BY DESIGN ENGINEER.

ISSUED: 03/01/99A	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM		
APPROVED: XXX		
THRUST BLOCK DESIGN		DRAWING NO. G-10

THRUST RESTRAINT NOTES:

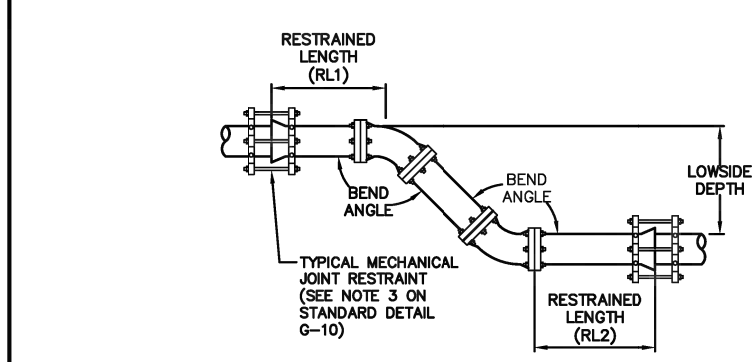
- ALL JOINTS BETWEEN BENDS AT HORIZONTAL & VERTICAL OFFSETS SHALL BE RESTRAINED.
- MECHANICAL THRUST RESTRAINTS FOR D.I.P. FITTINGS ON D.I.P. OR P.V.C. PIPE SHALL BE MEGALUG AS MANUFACTURED BY EBAA IRON, INC., OR APPROVED EQUAL.
- DUCTILE IRON FITTINGS UP TO 20-INCHES IN DIAMETER SHALL BE RESTRAINED BY MECHANICAL MEANS, I.E., MEGALUGS OR APPROVED EQUAL.
- DUCTILE IRON FITTINGS 24-INCH IN DIAMETER AND ABOVE SHALL BE RESTRAINED BY MECHANICAL MEANS, I.E., MEGALUGS OR APPROVED EQUAL, WITH THE ADDITION OF THRUST BLOCKS AND CONCRETE ANCHORS AT THE DISCRETION OF THE ENGINEER OF RECORD.
- ANY THRUST BLOCKS AND ANCHORS ARE TO BE DESIGNED BY THE ENGINEER OF RECORD, SIGNED AND SEALED CALCULATIONS SHALL BE SUBMITTED TO THE CITY FOR APPROVAL PRIOR TO INSTALLATION.
- THRUST BLOCKS CONSISTING OF POURED-IN-PLACE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AFTER 28 DAYS.

ISSUED: 03/01/99A	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM		
APPROVED: XXX		
JOINT RESTRAINT DESIGN FOR PVC AND DIP THRUST RESTRAINT NOTES		DRAWING NO. G-11



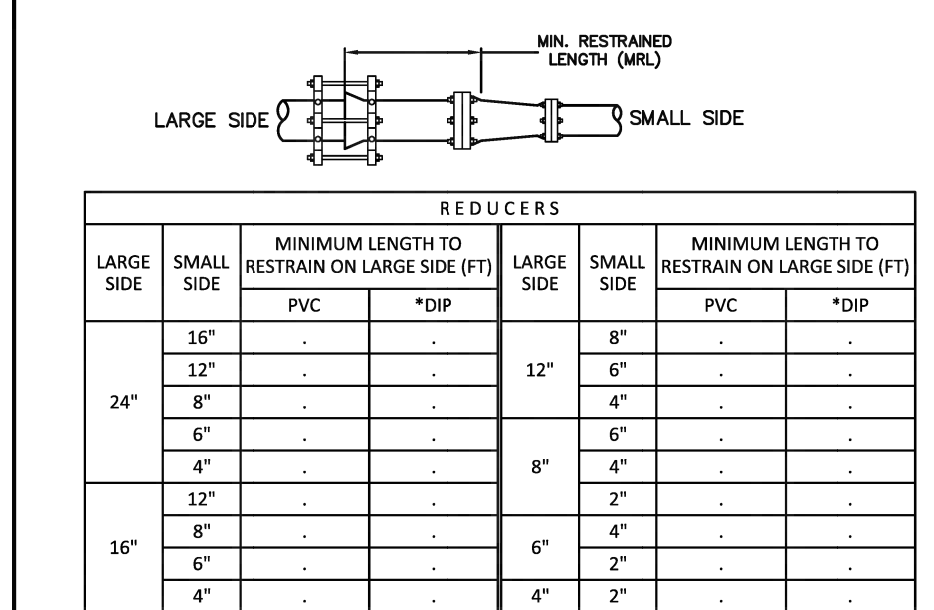
HORIZONTAL BENDS		TEES AND TAPPING SLEEVES	
PIPE DIA. (INCHES)	RESTRAINED LENGTH (RL) (FT)	MIN. RESTRAINED LENGTH ALONG RUN (MRL) (FT)	MIN. RESTRAINED LENGTH ALONG BRANCH (MBL) (FT)
24	111	111	111
16	45	45	45
12	22	22	22
8	11	11	11
6	6	6	6
4	4	4	4

ISSUED: 03/01/99A	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM		
APPROVED: XXX		
JOINT RESTRAINT DESIGN FOR PVC AND DIP HORIZONTAL BENDS AND TEES		DRAWING NO. G-11.1



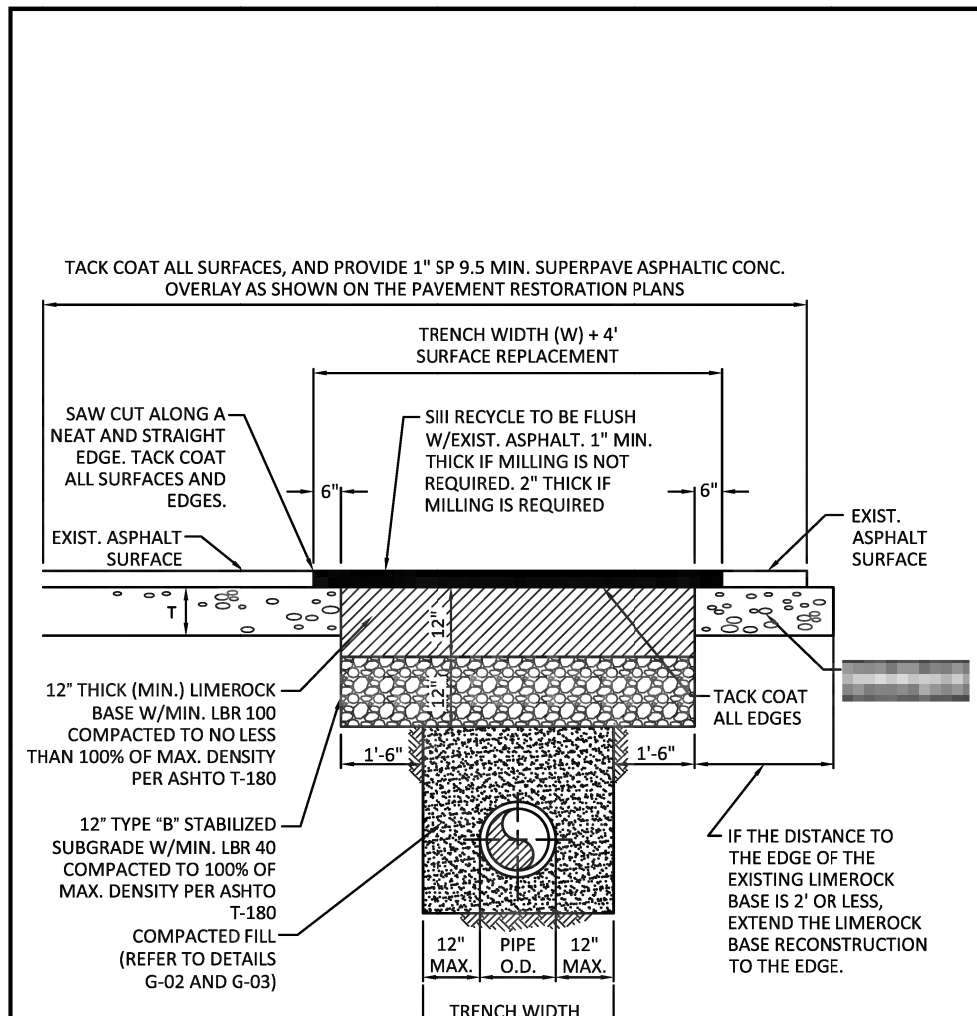
VERTICAL OFFSETS		REDUCERS	
PIPE DIA. (INCHES)	RESTRAINED LENGTH (RL) (FT)	MIN. RESTRAINED LENGTH (MRL) (FT)	MIN. RESTRAINED LENGTH (MRL) (FT)
24	111	111	111
16	45	45	45
12	22	22	22
8	11	11	11
6	6	6	6
4	4	4	4

ISSUED: 03/01/99A	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM		
APPROVED: XXX		
JOINT RESTRAINT DESIGN FOR PVC AND DIP VERTICAL OFFSETS		DRAWING NO. G-11.2

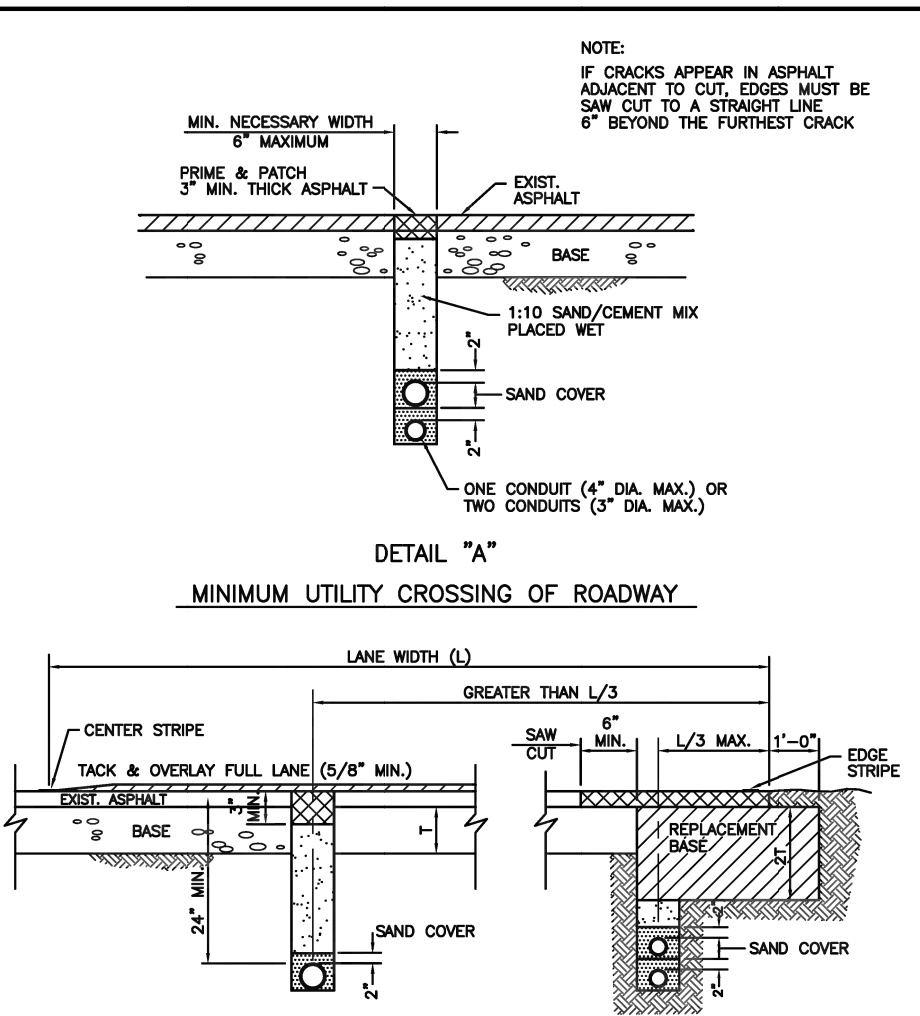


DEAD ENDS		REDUCERS	
PIPE DIA. (INCHES)	MIN. RESTRAINED LENGTH (FT)	MIN. RESTRAINED LENGTH (MRL) (FT)	MIN. RESTRAINED LENGTH (MRL) (FT)
24	111	111	111
16	45	45	45
12	22	22	22
8	11	11	11
6	6	6	6
4	4	4	4

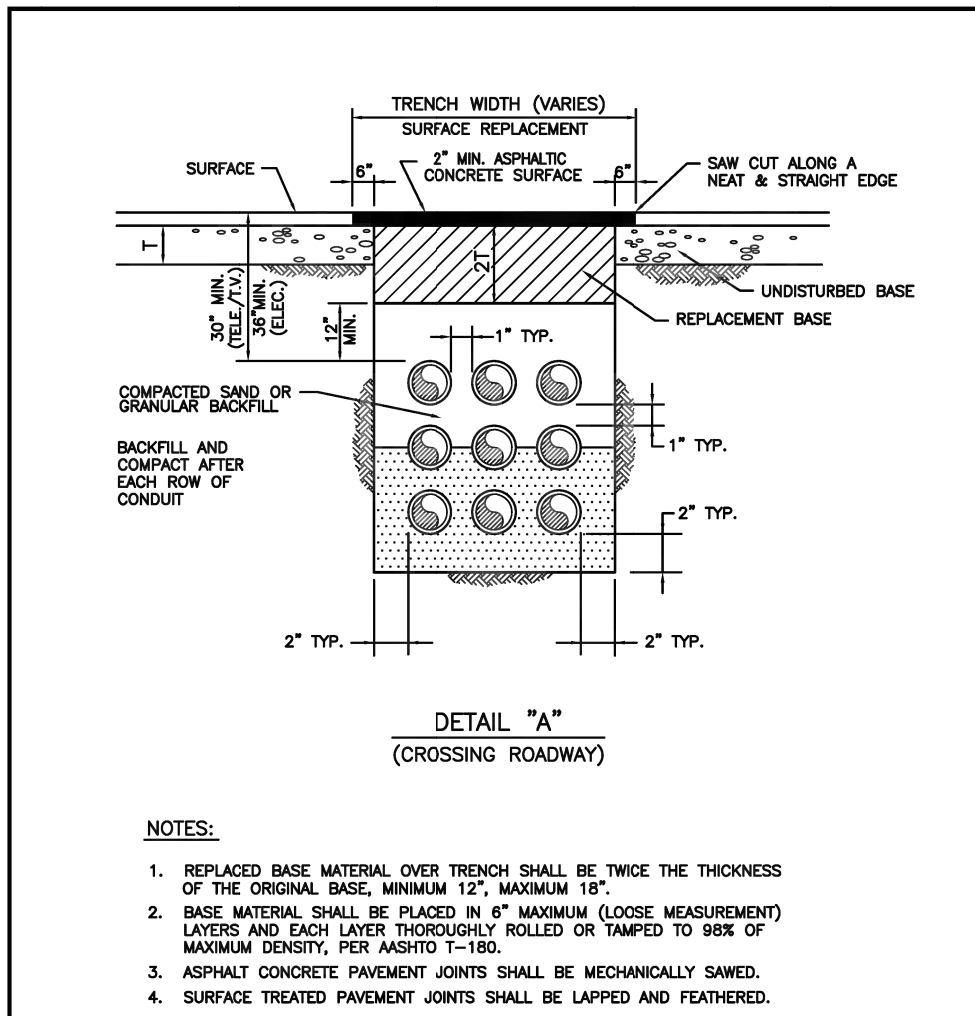
ISSUED: 03/01/99A	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM		
APPROVED: XXX		
JOINT RESTRAINT DESIGN FOR PVC AND DIP REDUCERS AND DEAD ENDS		DRAWING NO. G-11.3



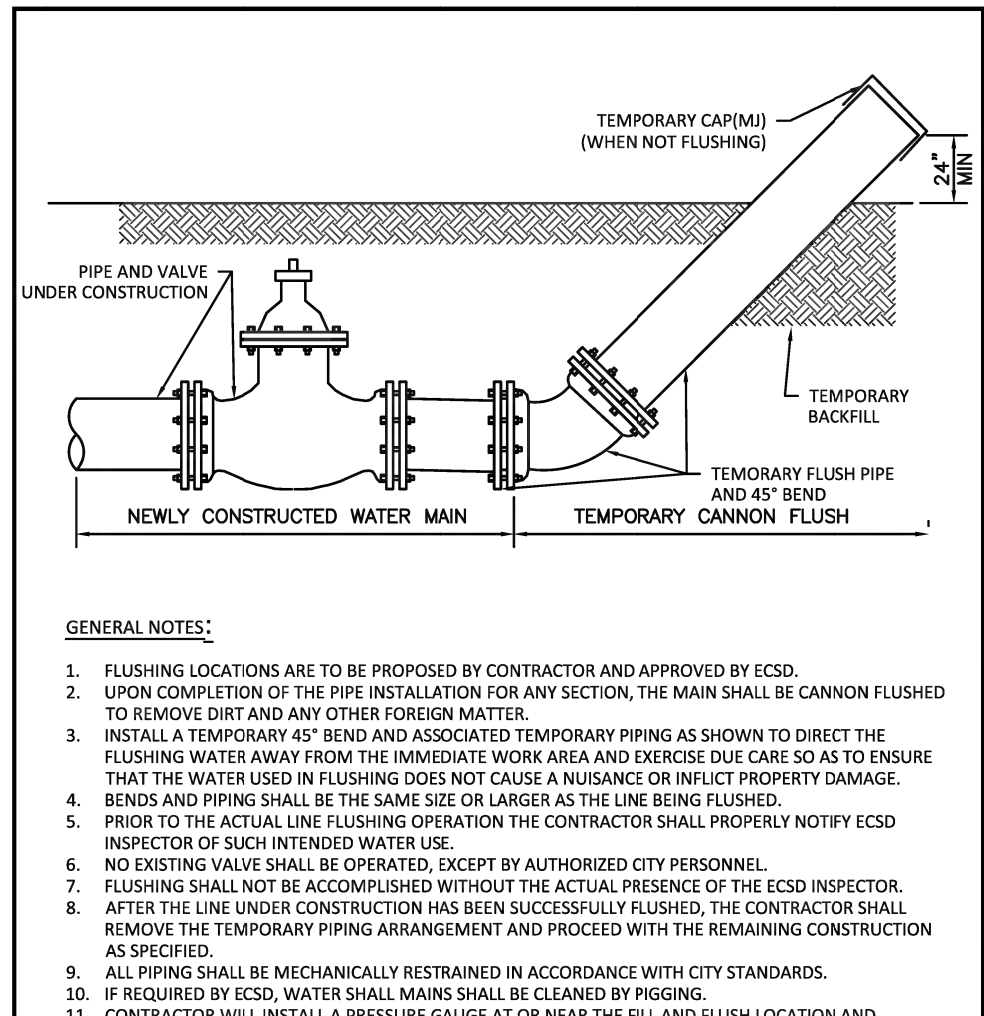
ISSUED: 03/01/99A	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 11/06/2017
DRAWN: EAM		
APPROVED: XXX		
FLEXIBLE PAVEMENT RESTORATION FOR TRENCHES CUT PERPENDICULAR AND PARALLEL TO THE ROADWAY		DRAWING NO. G-12.1



ISSUED: 03/01/99A	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM		
APPROVED: XXX		
FLEXIBLE PAVEMENT RESTORATION FOR CONDUIT		DRAWING NO. G-12.2



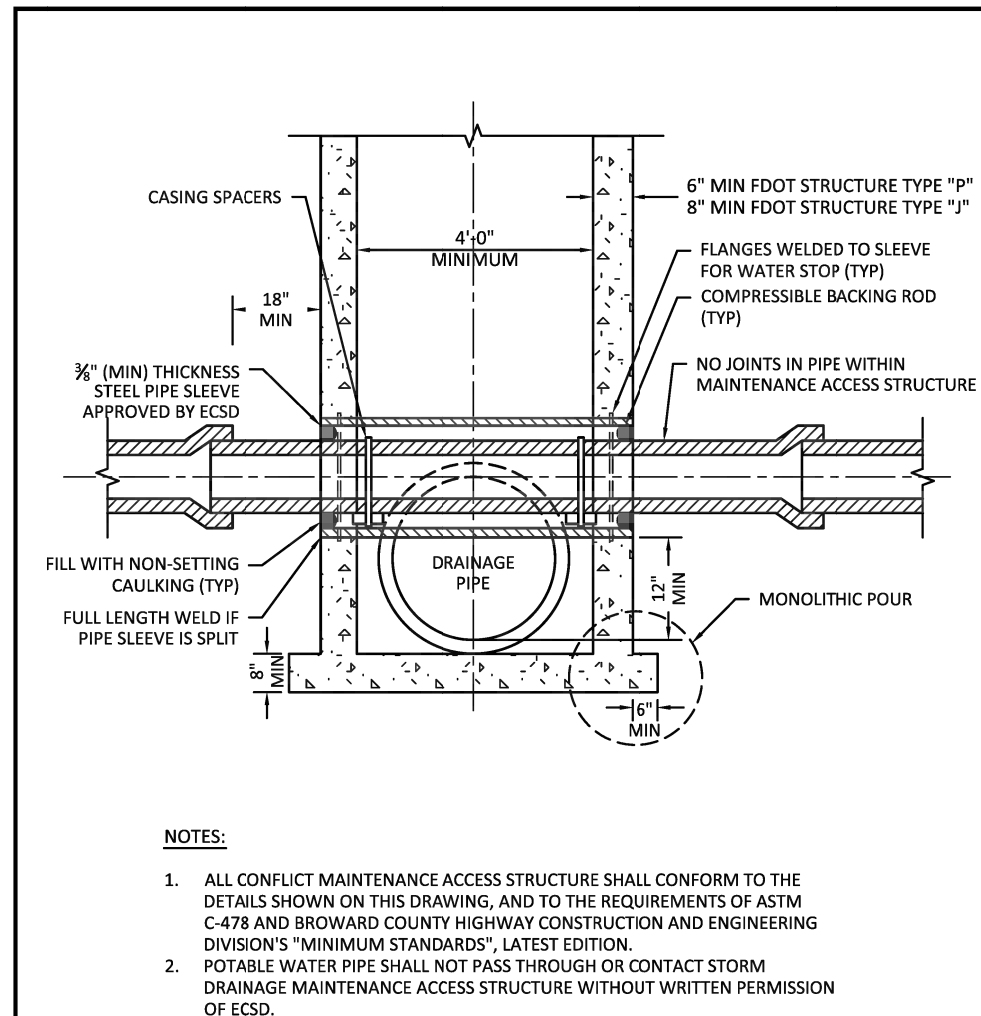
ISSUED: 03/01/99A	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM		
APPROVED: XXX		
FLEXIBLE PAVEMENT RESTORATION FOR DUCTBANKS		DRAWING NO. G-12.3



GENERAL NOTES:

- FLUSHING LOCATIONS ARE TO BE PROPOSED BY CONTRACTOR AND APPROVED BY ECSD.
- UPON COMPLETION OF THE PIPE INSTALLATION FOR ANY SECTION, THE MAIN SHALL BE CANNON FLUSHED TO REMOVE DIRT AND ANY OTHER FOREIGN MATTER.
- INSTALL A TEMPORARY 45\"/>

ISSUED: 03/01/99A	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM		
APPROVED: XXX		
CANNON FLUSHING		DRAWING NO. G-13



NOTES:

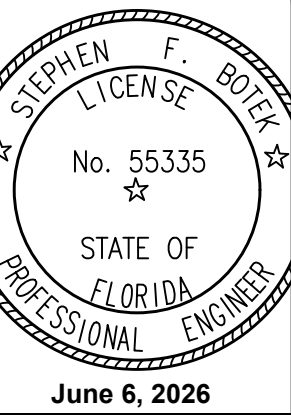
- ALL CONFLICT MAINTENANCE ACCESS STRUCTURE SHALL CONFORM TO THE DETAILS SHOWN ON THIS DRAWING, AND TO THE REQUIREMENTS OF ASTM C-474 AND BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION'S "MINIMUM STANDARDS" LATEST EDITION.
- POTABLE WATER PIPE SHALL NOT PASS THROUGH OR CONTACT STORM DRAINAGE MAINTENANCE ACCESS STRUCTURE WITHOUT WRITTEN PERMISSION OF ECSD.
- POTABLE WATER PIPE SHALL NOT PASS THROUGH OR CONTACT SANITARY SEWER MAINTENANCE ACCESS STRUCTURE.
- MINIMUM TWO (2) FOOT CLEARANCE REQUIRED BETWEEN OUTSIDE OF SLEEVE AND PAVEMENT.
- CONFLICT STRUCTURE TO COMPLY WITH REQUIREMENTS OF CHAPTER 62-555.314 (FAC).

ISSUED: 03/01/99A	DEPARTMENT OF PUBLIC UTILITIES STANDARD DETAIL	REVISED: 06/08/2014
DRAWN: EAM		
APPROVED: XXX		
CONFLICT MAINTENANCE ACCESS STRUCTURE		DRAWING NO. G-14

BTE REF DATE: 6-6-2020

REVISIONS

DATE



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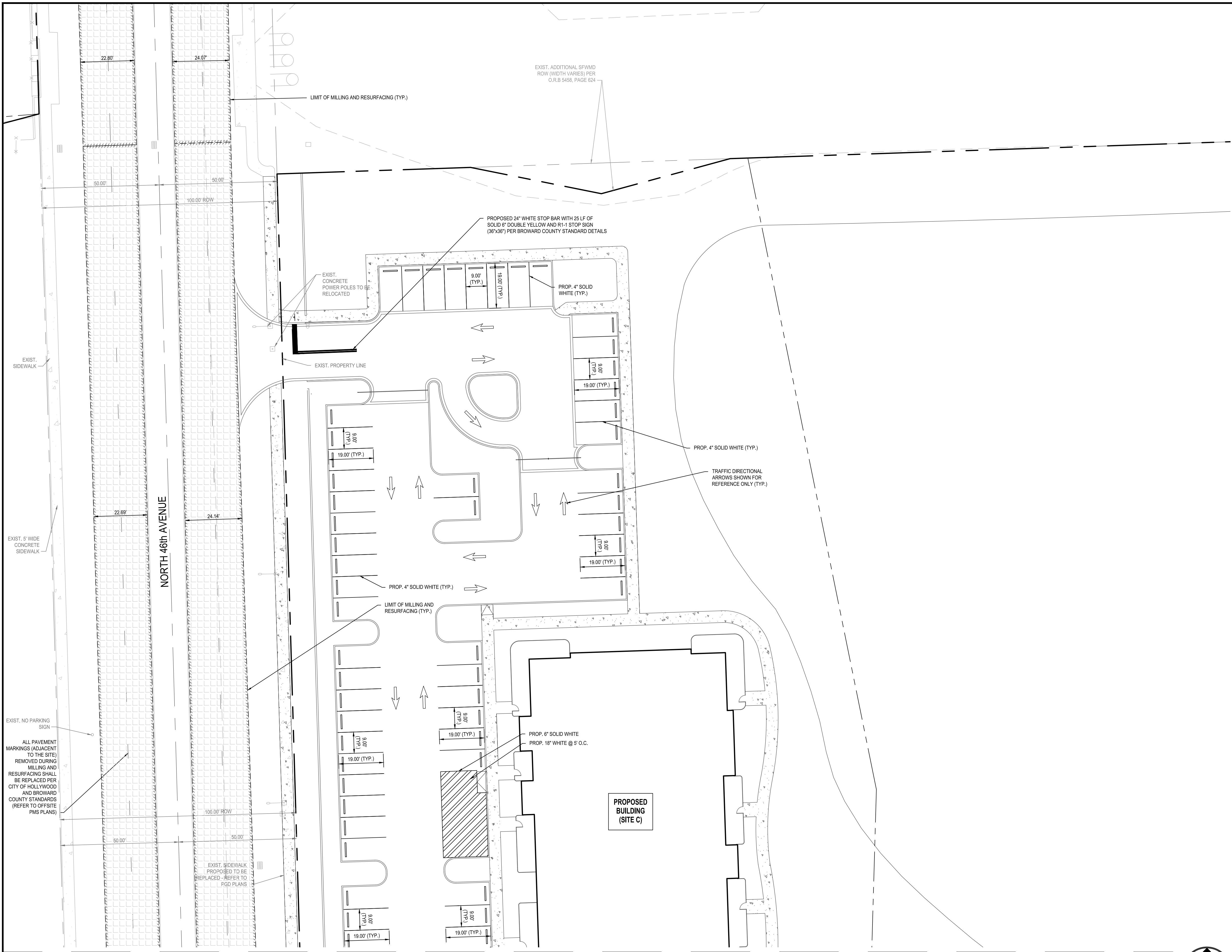
WATER AND SANITARY SEWER DETAILS
EMERALD HILLS
Site C - North 46th Avenue - East
Hollywood, Florida

Botek Thurlow Engineering, Inc.
3400 NW 9th Avenue, Suite 102, Ft. Lauderdale, FL 33309
www.botekthurlow-eng.com P: 954-568-0888 F: 954-568-0737

BTE PROJECT #:
22-0401

PROJECT DATE:
6-5-2024

SHEET #:
CC-WS-8



PAVEMENT MARKING & SIGNAGE NOTES:

1. ALL PAVEMENT MARKING & SIGNAGE TO BE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) (LATEST EDITION), FDOT STANDARDS (LATEST EDITION), AND BROWARD COUNTY HIGHWAY CONSTRUCTION AND ENGINEERING DIVISION STANDARDS (LATEST EDITION).
2. ALL PAVEMENT MARKINGS IN OR ADJACENT TO THE PUBLIC RIGHT OF WAY ARE TO BE ALKYD BASED THERMOPLASTIC AND FULLY RETROREFLECTORIZED.
3. PAVEMENT MARKING SHALL BE UNIFORM ACROSS THE ENTIRE STRIPE AND HAVE A MINIMUM RETRO-REFLECTIVITY OF 250 MILICANDELAS FOR WHITE AND 175 FOR YELLOW PER BCTED MOST CURRENT STANDARDS.
4. ALL PAVEMENT MARKINGS ON PAVEMENT SYSTEMS SHALL BE 3M 380381 SERIES TAPE AND APPLIED WITH P60 ADHESIVE AS PER MANUFACTURER'S SPECIFICATIONS.
5. FDOT APPROVED SEALER SHALL BE USED WHEN APPLYING MARKINGS ON CONCRETE.
6. EXISTING MARKINGS SHALL BE REMOVED BY SANDBLASTING ONLY.
7. ALL REGULATORY SIGNS SHALL BE TYPE XI SHEETING MATERIAL.
8. SEE FDOT INDEX NO. 706 FOR PLACEMENT OF RPM's, (FOR BULLNOSE RPM TREATMENT, SEE LEGEND NO. 1)
9. RPM's SHALL BE CLASS "B" 911 OR EQUIVALENT, APPLIED WITH EPOXY OR BITUMINOUS ADHESIVE.
10. ALL STOP BARS TO BE 4' BEHIND CROSSWALK OR SIDEWALK.

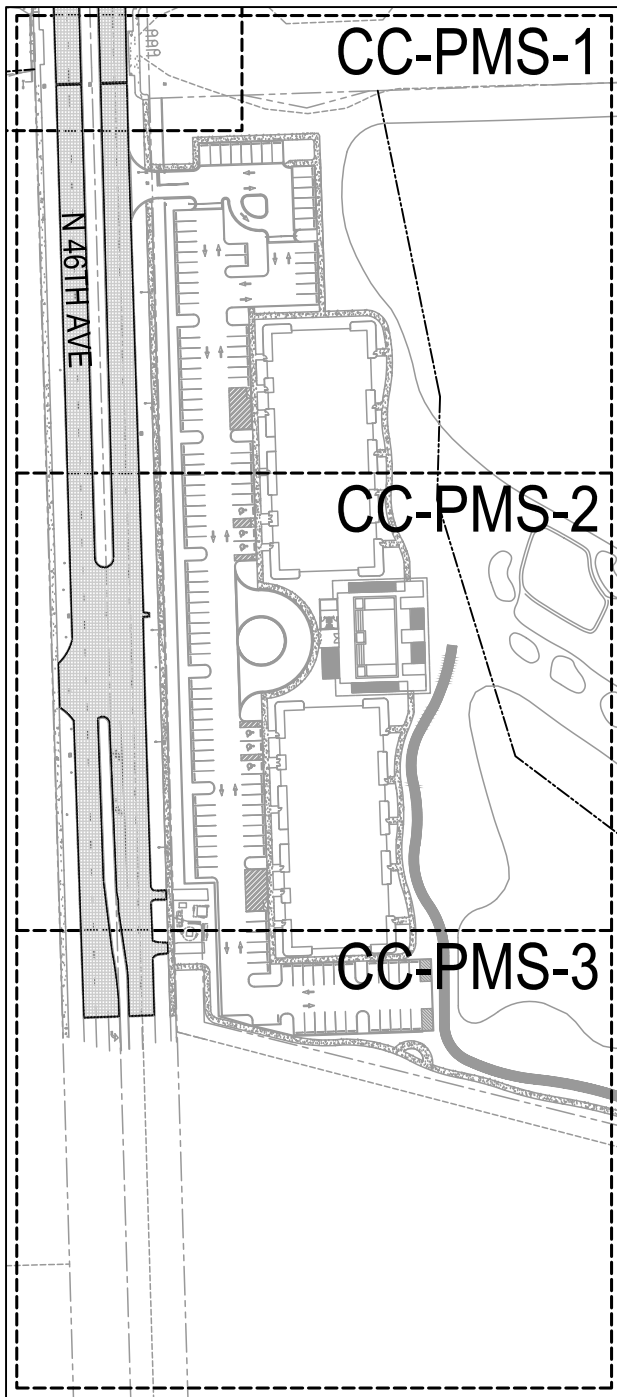
BCTED NOTE:

THE FOLLOWING ITEMS ARE NOT REVIEWED OR ACCEPTED BY BROWARD COUNTY:
1. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION'S REVIEW DOES NOT INCLUDE A REVIEW AND ACCEPTANCE OF THE PROJECTS DESIGN OR OPERATION. THESE ITEMS ARE TO BE REVIEWED AND APPROVED BY THE CITY ENGINEER.

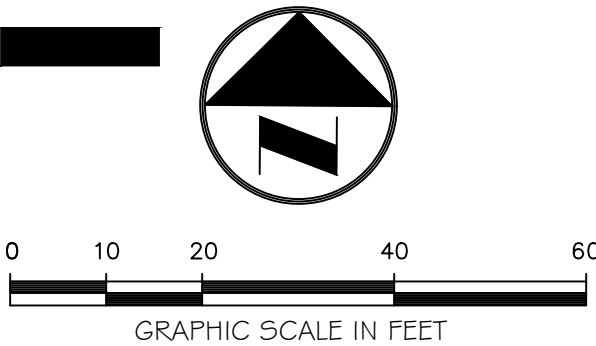
2. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION DOES NOT REVIEW AND APPROVE, OR INSPECT AND ACCEPT THE FOLLOWING ITEMS FOR MAINTENANCE: PAVEMENT MARKINGS ON OR ADJACENT TO PAVEMENT BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVEMENT BRICKS, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED CROSSWALKS AND RELATED MARKINGS AND SIGNING, PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, BLUNKER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND DECORATIVE SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK OR ASPHALT WORK.

3. THE CITY ENGINEER IS RESPONSIBLE FOR THE REVIEW AND APPROVAL OF THE DESIGN AND OPERATION OF THE PROJECT, AND FOR THE INSPECTION AND ACCEPTANCE OF THE FOLLOWING ITEMS THAT WILL BE MAINTAINED BY THE CITY: PAVEMENT MARKINGS ON OR ADJACENT TO PAVEMENT BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVEMENT BRICKS, PAVEMENT MARKINGS ON OR ADJACENT TO PAINTED ASPHALT, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED CROSSWALKS AND RELATED MARKINGS AND SIGNING, PAINTED/DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, BLUNKER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND DECORATIVE SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK AND ASPHALT WORK.

KEY MAP (SITE C)



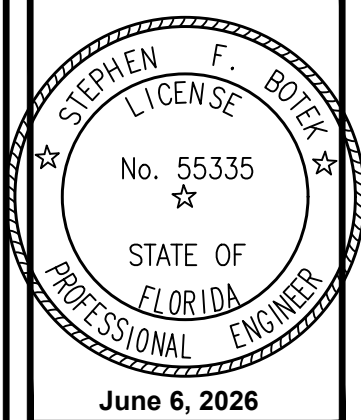
MATCHLINE - SEE SHEET CC-PMS-2



Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

BTE REF DATE: 6-6-2026	
REVISIONS	
DATE	#



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PAVEMENT MARKING AND SIGNAGE PLAN

EMERALD HILLS
Site C - North 46th Avenue - East
Hollywood, Florida

Botek Thurlow Engineering, Inc.
3400 NW 9th Avenue, Suite 102, Ft. Lauderdale, FL 33309
www.botekthurlow-eng.com P: 954-568-8888 F: 954-568-0757

BTE PROJECT #:
22-0401

PROJECT DATE:
6-5-2024

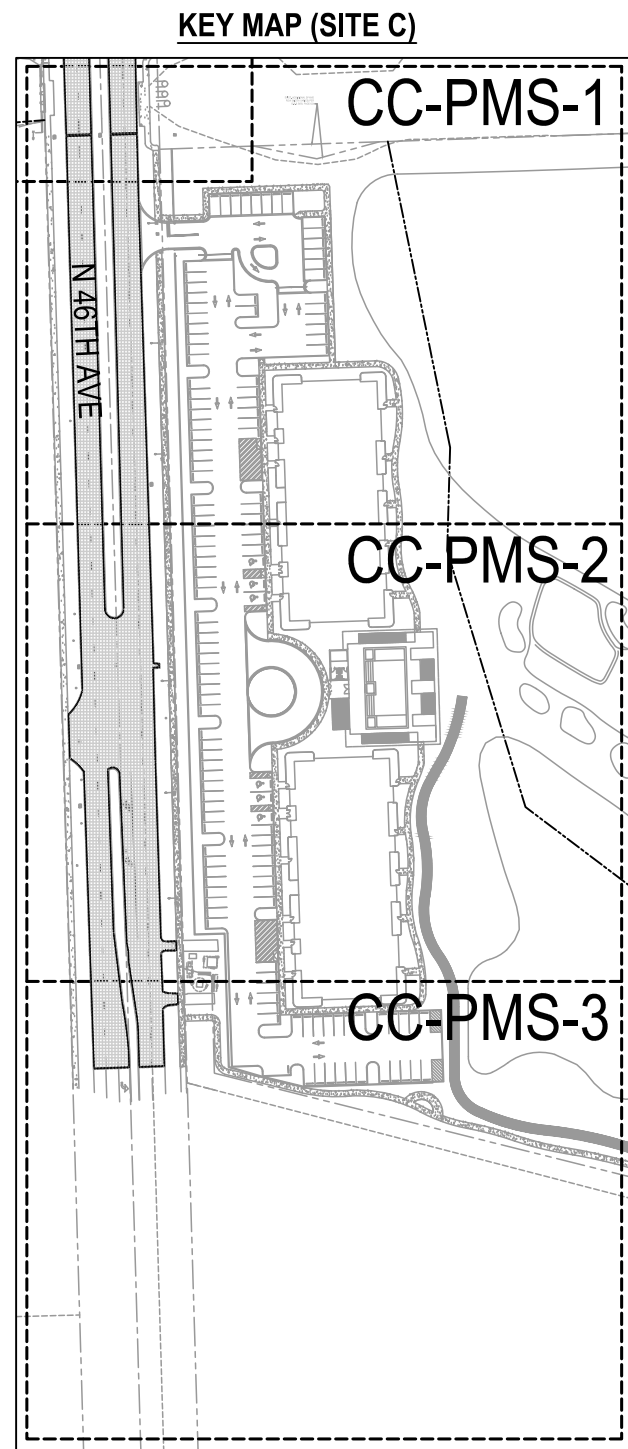
SHEET #:
CC-PMS-1

MATCHLINE - SEE SHEET CC-PMS-1



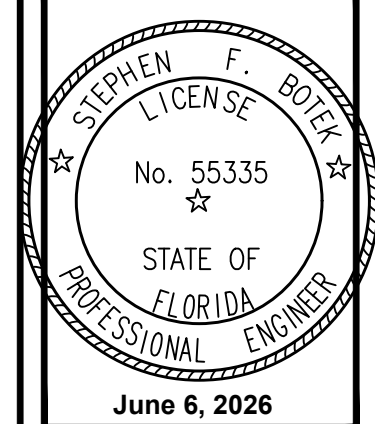
MATCHLINE - SEE SHEET CC-PMS-3

REFER TO SHEET CC-PMS-1 FOR
PAVEMENT MARKING AND SIGNAGE NOTES



BTE REF DATE: 6-6-2026

REVISIONS	DATE	#



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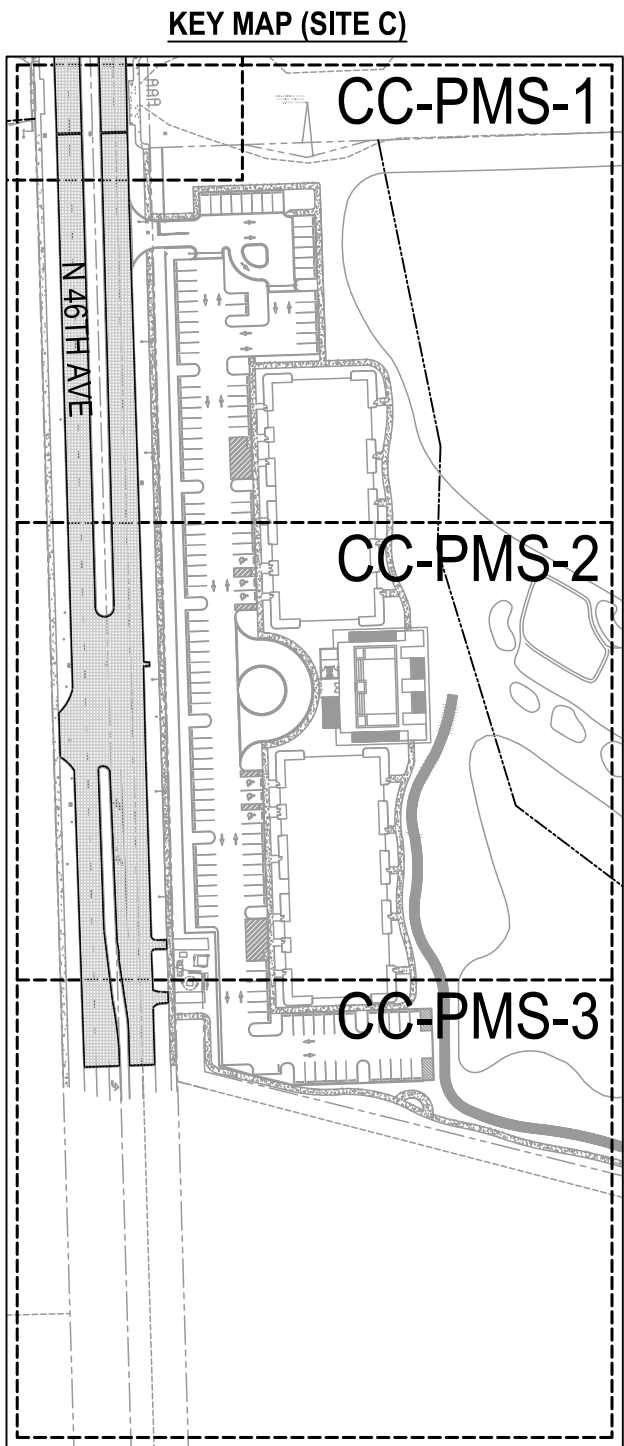
PROJECT DATE:
6-5-2024

SHEET #:
CC-PMS-2

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have underground utilities located and marked.
Sunshine811.com

MATCHLINE - SEE SHEET CC-PMS-2

REFER TO SHEET CC-PMS-1 FOR
PAVEMENT MARKING AND SIGNAGE NOTES



ALL PAVEMENT MARKINGS
(ADJACENT TO THE SITE)
REMOVED DURING MILLING AND
RESURFACING SHALL BE
REPLACED PER CITY OF
HOLLYWOOD AND BROWARD
COUNTY STANDARDS (REFER TO
OFFSITE PMS PLANS)

ALL PAVEMENT MARKINGS OUTSIDE
THE MILLING AND RESURFACING LIMIT
ARE TO REMAIN UNLESS NOTED
OTHERWISE (TYP.)

NORTH 46th
AVENUE

EXIST. SIDEWALK
PROPOSED TO BE
REPLACED - REFER TO
PGD PLANS

LIMIT OF MILLING AND
RESURFACING (TYP.)

EXIST. PROPERTY LINE

EXIST. SIDEWALK

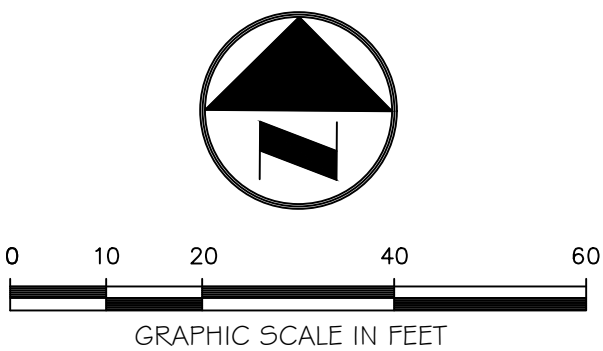
PROP. 4" SOLID WHITE (TYP.)

PROP. 6" SOLID WHITE
PROP. 18" WHITE @ 5' O.C.

PROP. 6" SOLID WHITE
PROP. 18" WHITE @ 5' O.C.

CART PATH PROPOSED
BY EMERALD HILLS
GOLF COURSE
REDEVELOPMENT
PROJECT (SHOWN FOR
REFERENCE)

EXIST. PROPERTY LINE

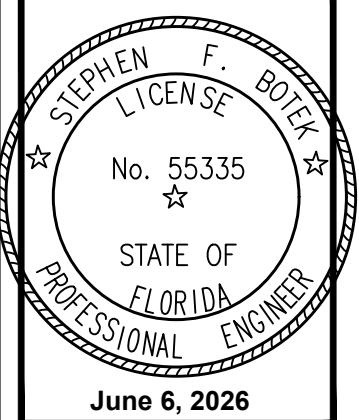


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BTE REF DATE: 6-6-2026

#	DATE	REVISIONS



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PAVEMENT MARKING AND SIGNAGE PLAN

EMERALD HILLS
Site C - North 46th Avenue - East
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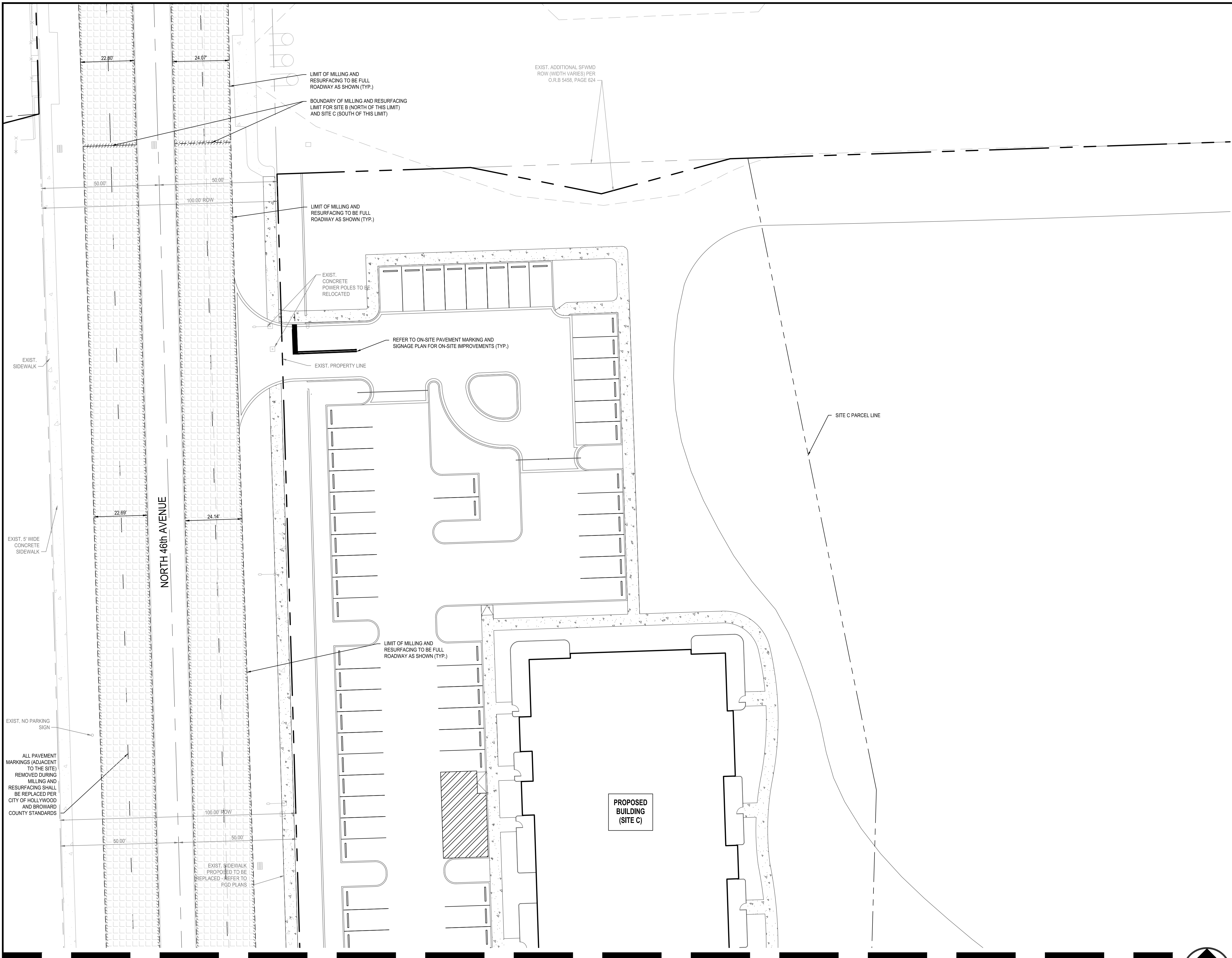
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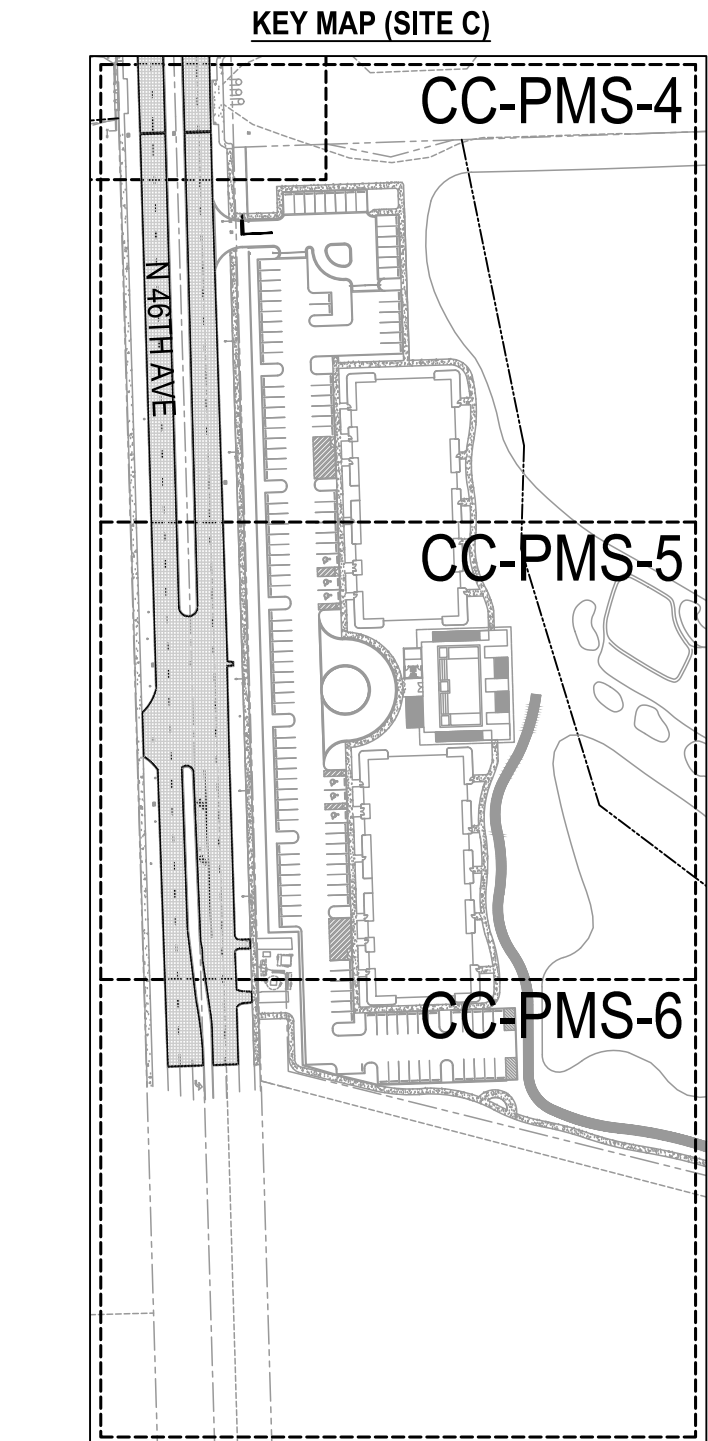
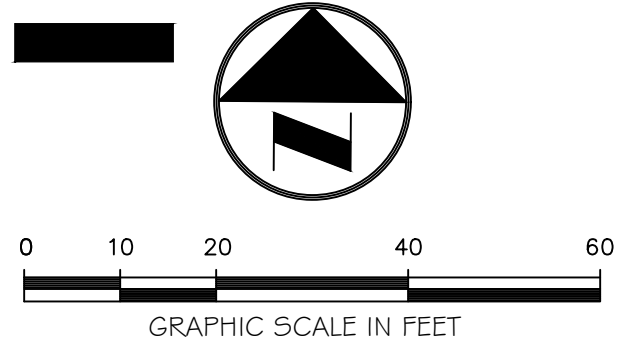
BTE PROJECT #:
22-0401

PROJECT DATE:
6-5-2024

SHEET #:
CC-PMS-3



MATCHLINE - SEE SHEET CC-PMS-5



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BCTD NOTE:

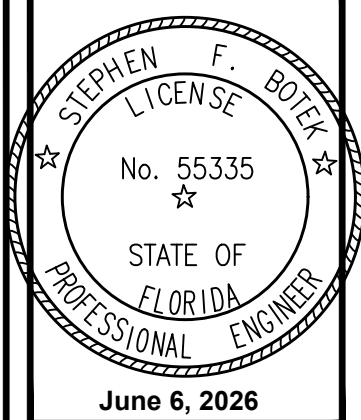
THE FOLLOWING ITEMS ARE NOT REVIEWED OR ACCEPTED BY BROWARD COUNTY:
1. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION'S REVIEW DOES NOT INCLUDE A REVIEW AND ACCEPTANCE OF THE PROJECTS DESIGN OR OPERATION. THESE ITEMS ARE TO BE REVIEWED AND APPROVED BY THE CITY ENGINEER.

2. BROWARD COUNTY TRAFFIC ENGINEERING DIVISION DOES NOT REVIEW AND APPROVE, OR INSPECT AND ACCEPT THE FOLLOWING ITEMS FOR MAINTENANCE: PAVEMENT MARKINGS ON OR ADJACENT TO PAVR BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVR BRICKS, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED CROSSWALKS AND RELATED MARKINGS AND SIGNING, PAINTED DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, BUNKER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND DECORATIVE SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK OR ASPHALT WORK.

3. THE CITY ENGINEER IS RESPONSIBLE FOR THE REVIEW AND APPROVAL OF THE DESIGN AND OPERATION OF THE PROJECT, AND FOR THE INSPECTION AND ACCEPTANCE OF THE FOLLOWING ITEMS THAT WILL BE MAINTAINED BY THE CITY: PAVEMENT MARKINGS ON OR ADJACENT TO PAVR BRICKS, PAINTED ASPHALT, STAMPED ASPHALT OR PAVEMENT MARKINGS MADE OF PAVR BRICKS, PAVEMENT MARKINGS ON OR ADJACENT TO PAINTED ASPHALT, RAISED INTERSECTIONS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED MID-BLOCK CROSSWALKS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED CROSSWALKS AND RELATED MARKINGS AND SIGNING, UN-WARRANTED CROSSWALKS AND RELATED MARKINGS AND SIGNING, PAINTED DECORATIVE CROSSWALKS, RAISED CROSSWALKS AND RELATED MARKINGS AND SIGNING, BUNKER SIGNS, RECTANGULAR RAPID FLASHER BEACONS AND RELATED MARKINGS AND SIGNING, ON-STREET PARKING AND RELATED MARKINGS AND SIGNING, IN-ROAD LIGHTING AND RELATED MARKINGS AND SIGNING, GREEN BIKE LANES, FLEXIBLE DELINEATORS, DECORATIVE SIGNS AND DECORATIVE SIGN POSTS, PLANTERS, ON-SITE PAVEMENT MARKINGS AND SIGNING, OFF-SITE PAVEMENT MARKINGS AND SIGNING IN RIGHT-OF-WAY THAT IS NOT DEDICATED FOR PUBLIC USE, SIDEWALK WORK AND ASPHALT WORK.

BTE REF DATE: 6-6-2026

REVISIONS			
#	DATE		



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OFFSITE PAVEMENT MARKING AND SIGNAGE PLAN

EMERALD HILLS
Site C - North 46th Avenue - East
Hollywood, Florida

Botek Thurlow Engineering, Inc.
3400 NW 9th Avenue, Suite 102, Ft. Lauderdale, FL 33309
www.botekthurlow-eng.com P: 954-568-8888 F: 954-568-0777

BTE PROJECT #:
22-0401

PROJECT DATE:
6-5-2024

SHEET #:
CC-PMS-4

Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

MATCHLINE - SEE SHEET CC-PMS-6

KEY MAP (SITE C)

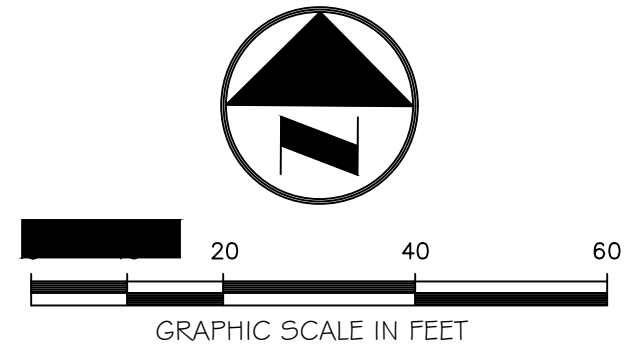
CC-PMS-4

N 46TH AVE

CC-PMS-5

CC-PMS-6

CC-PMS-5



Sunshine811.com

MATCHLINE - SEE SHEET CC-PMS-5

ALL PAVEMENT MARKINGS
(ADJACENT TO THE SITE)
REMOVED DURING MILLING AND
RESURFACING SHALL BE
REPLACED PER CITY OF
HOLLYWOOD AND BROWARD
COUNTY STANDARDS

ALL PAVEMENT MARKINGS OUTSIDE
THE MILLING AND RESURFACING LIMIT
ARE TO REMAIN UNLESS NOTED
OTHERWISE (TYP.)

NORTH 46th
AVENUE

31.55'

22.90'

EXIST. SIDEWALK
PROPOSED TO BE
REPLACED - REFER TO
PSD PLANS

EXIST. PROPERTY LINE

EXIST. SIDEWALK

REFER TO ON-SITE PAVEMENT MARKING AND
SIGNAGE PLAN FOR ON-SITE IMPROVEMENTS (TYP.)

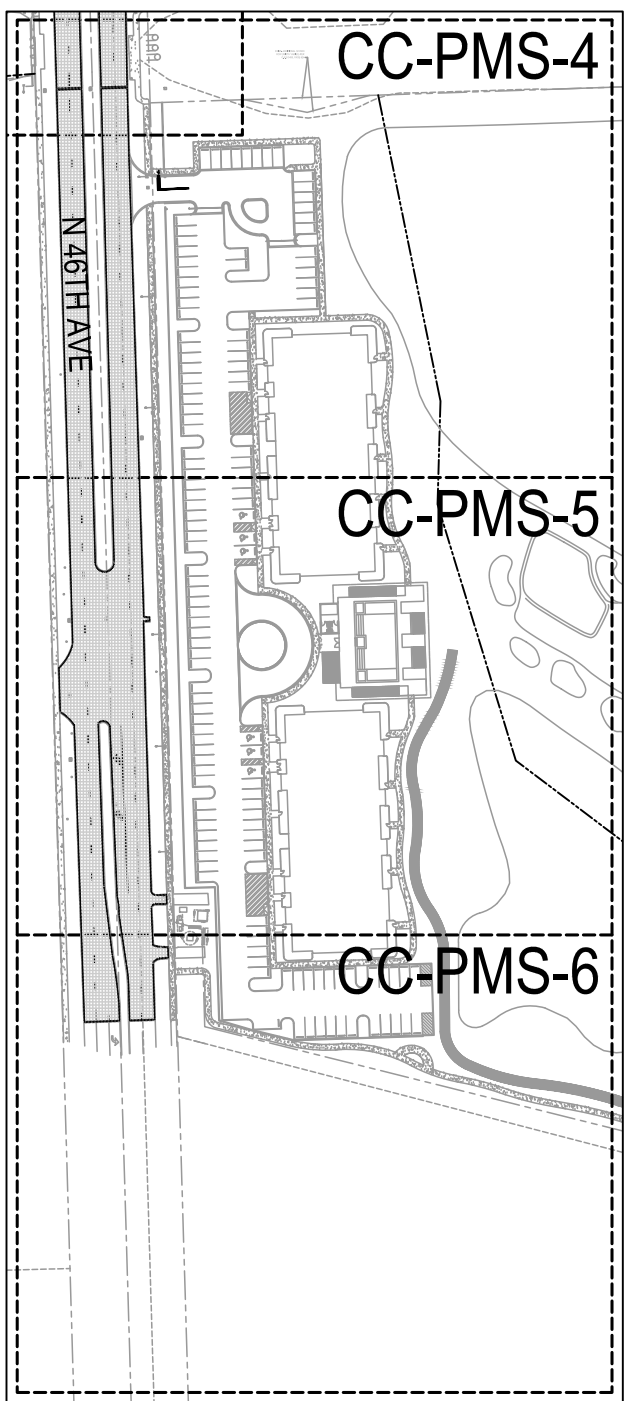
LIMIT OF MILLING AND
RESURFACING TO BE FULL
ROADWAY AS SHOWN (TYP.)

EXIST. PROPERTY LINE

CART PATH PROPOSED
BY EMERALD HILLS
GOLF COURSE
REDEVELOPMENT
PROJECT (SHOWN FOR
REFERENCE)

REFER TO SHEET CC-PMS-1 FOR
PAVEMENT MARKING AND SIGNAGE NOTES

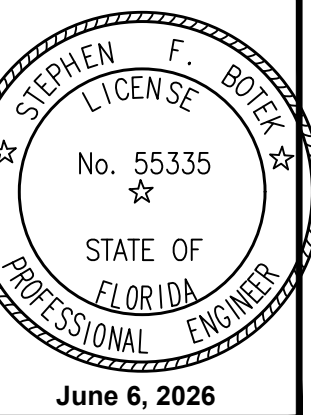
KEY MAP (SITE C)



BTE REF DATE: 6-6-2026

REVISIONS

DATE



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OFFSITE PAVEMENT MARKING AND SIGNAGE PLAN

EMERALD HILLS

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BTE PROJECT #:
22-0401

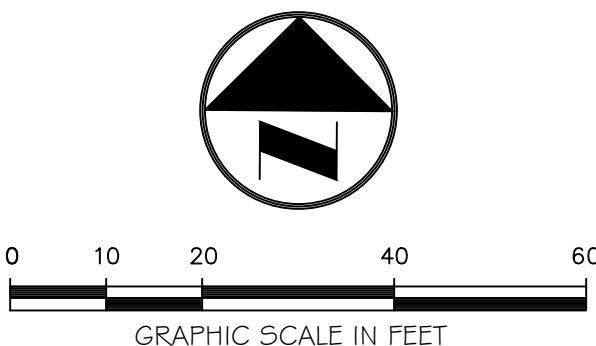
PROJECT DATE:
6-5-2024

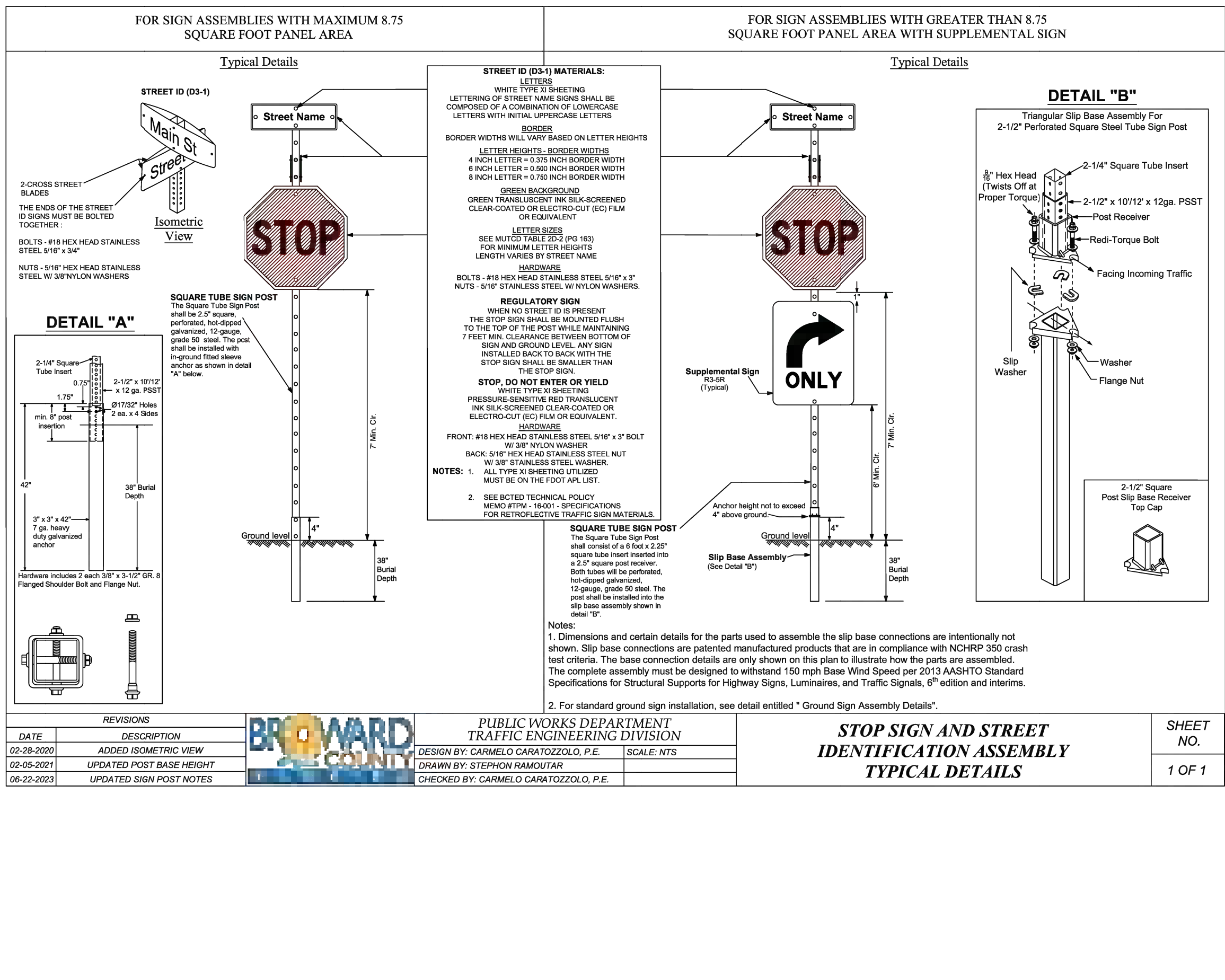
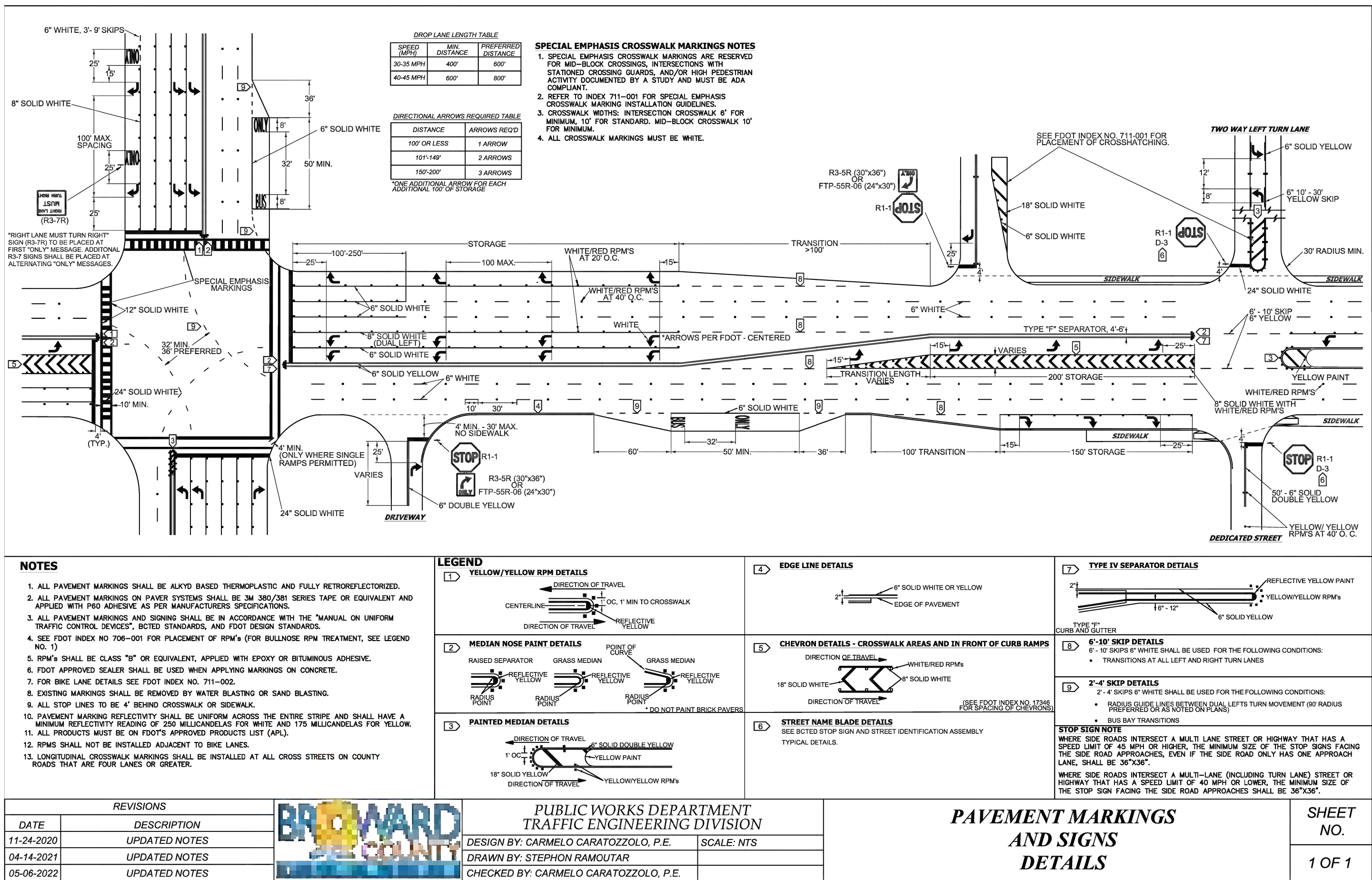
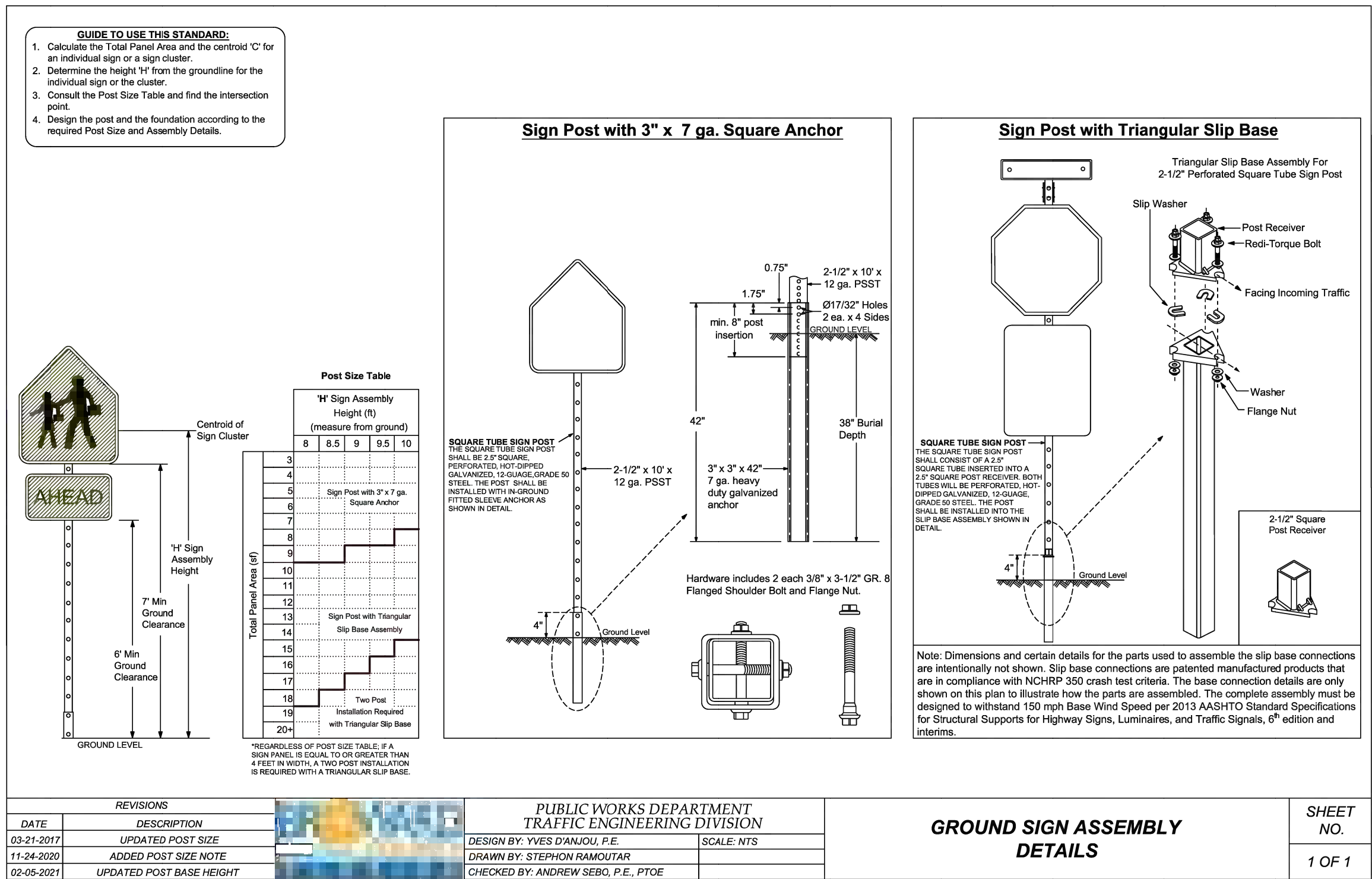
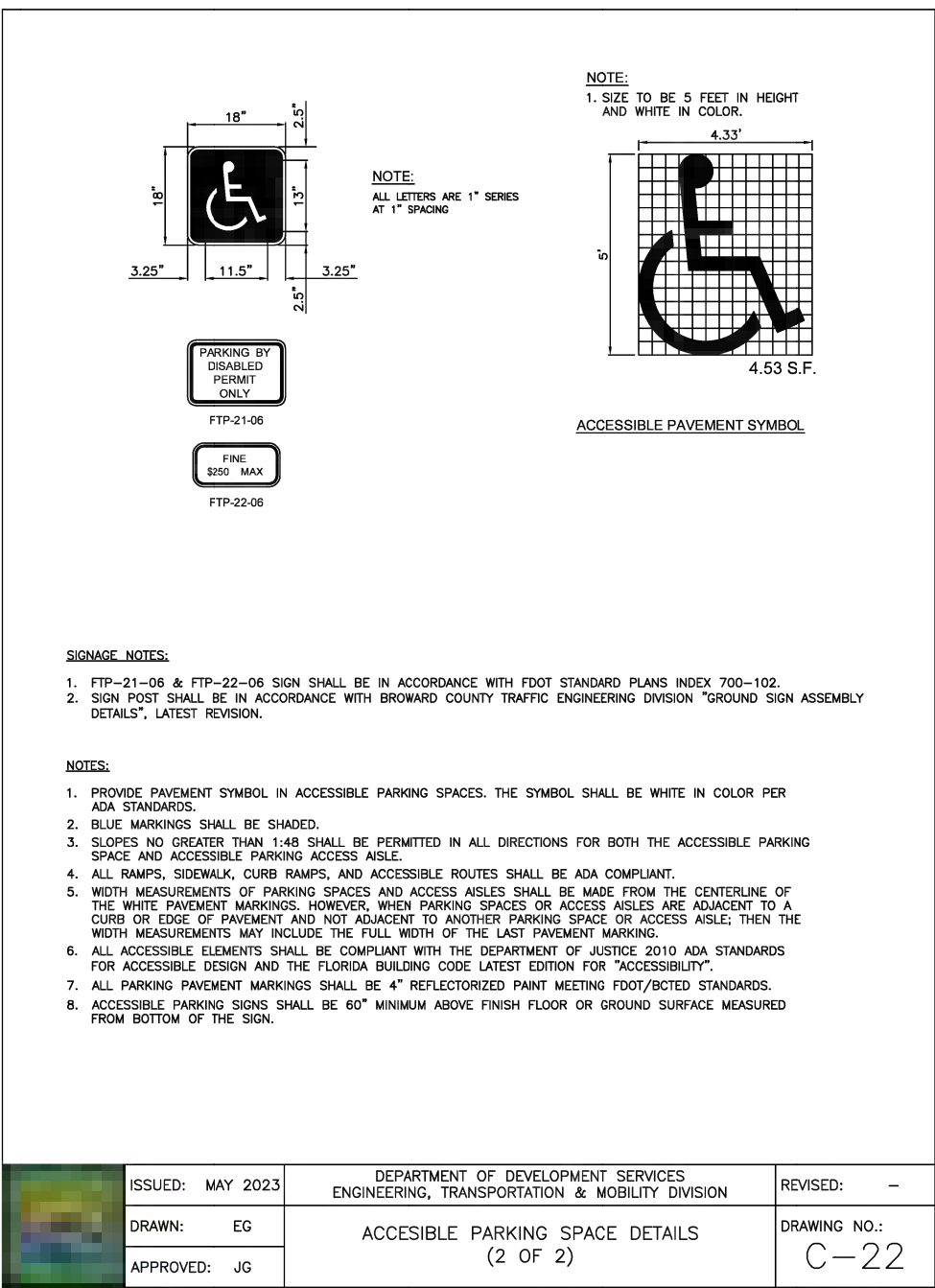
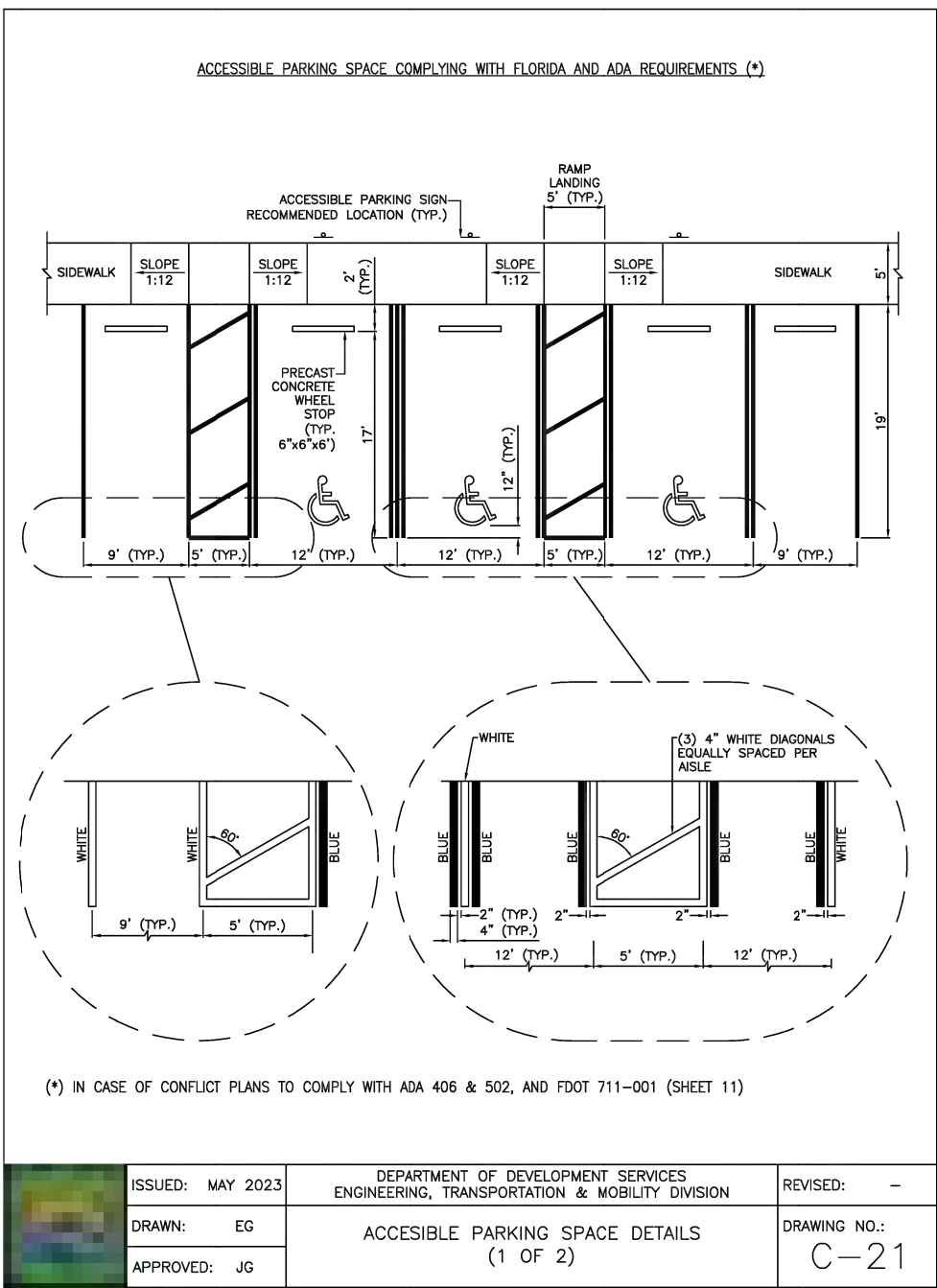
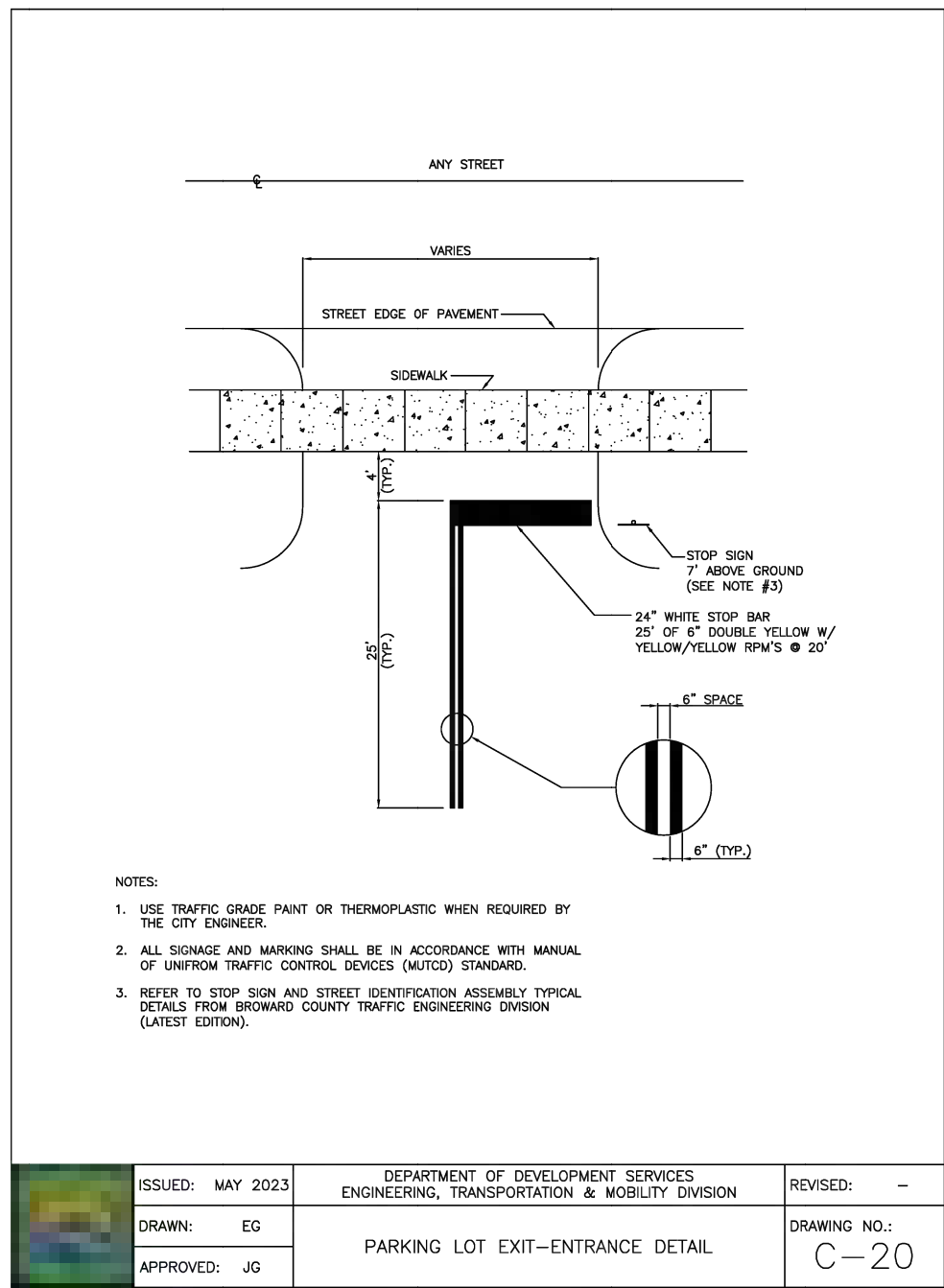
SHEET #:

CC-PMS-6

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Sunshine811.com





BTE REF DATE: 6-6-2020

REVISIONS

DATE

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STEPHEN F. BOTEK
No. 55335
STATE OF FLORIDA
PROFESSIONAL ENGINEER
June 6, 2026

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PAVEMENT MARKING AND SIGNAGE DETAILS

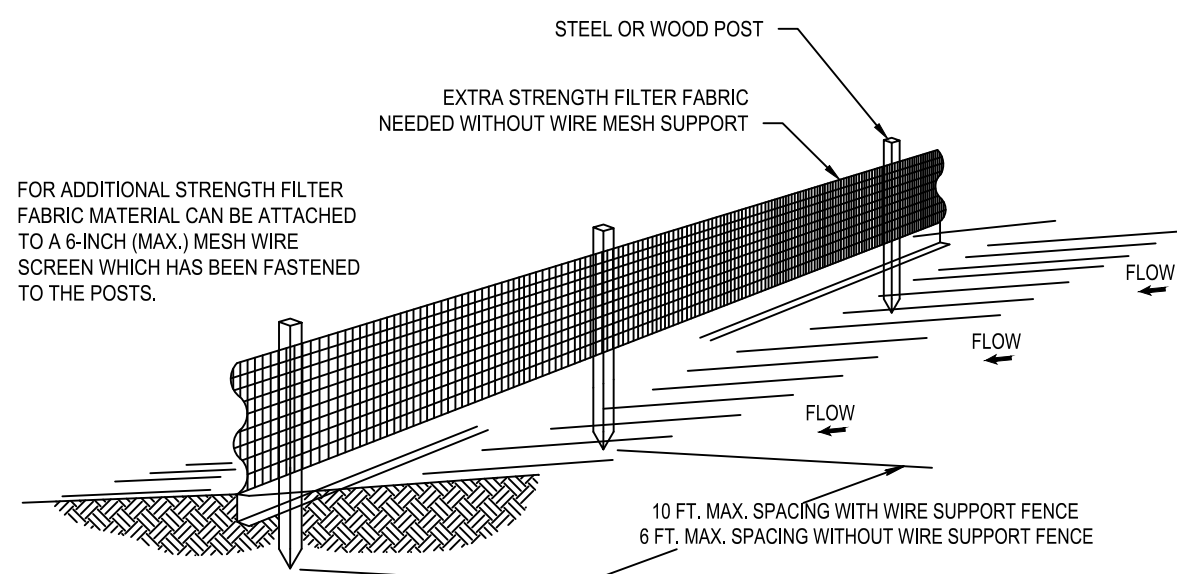
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Botek Thurlow
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3409 NW 9th Avenue, Suite 102, Ft. Lauderdale, FL 33309
www.botekthurlow-eng.com p: 954-968-0888 f: 954-968-0797

BTE PROJECT #: 22-0401

PROJECT DATE: 6-5-2024

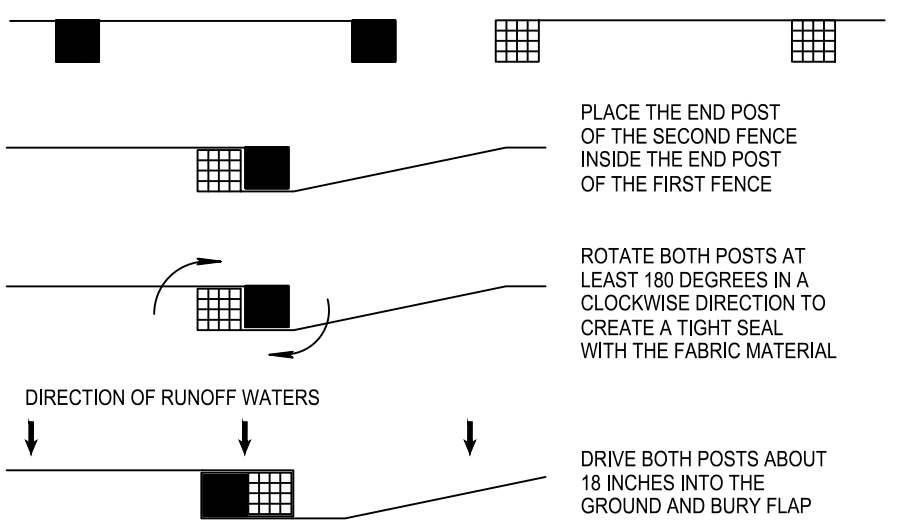
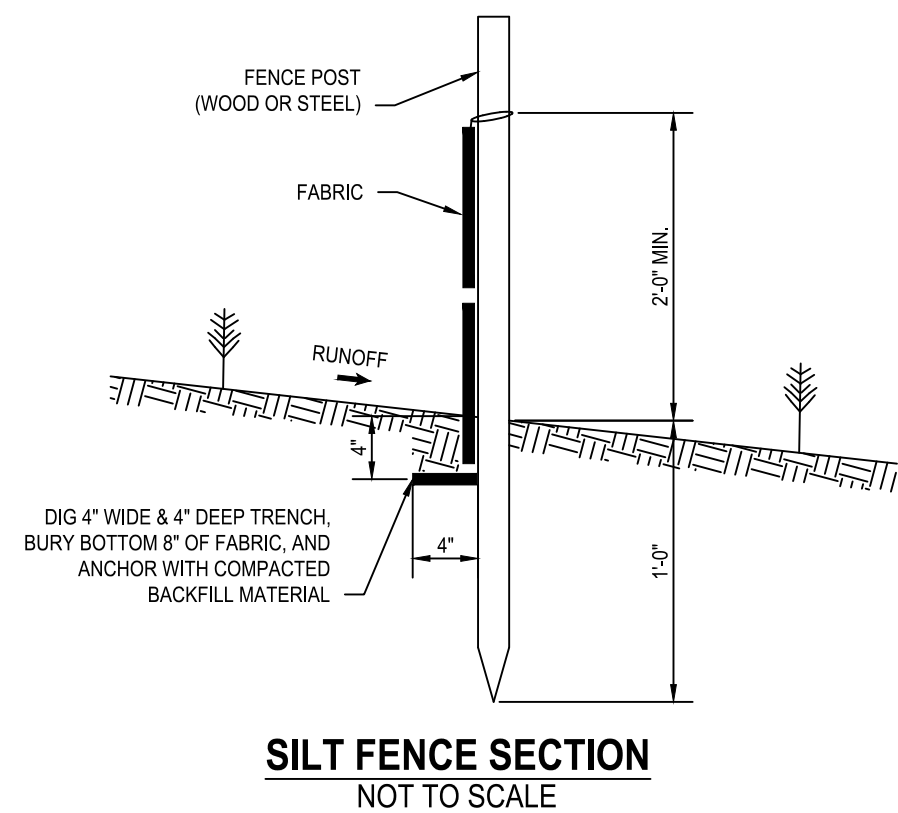
SHEET #: CC-PMS-7



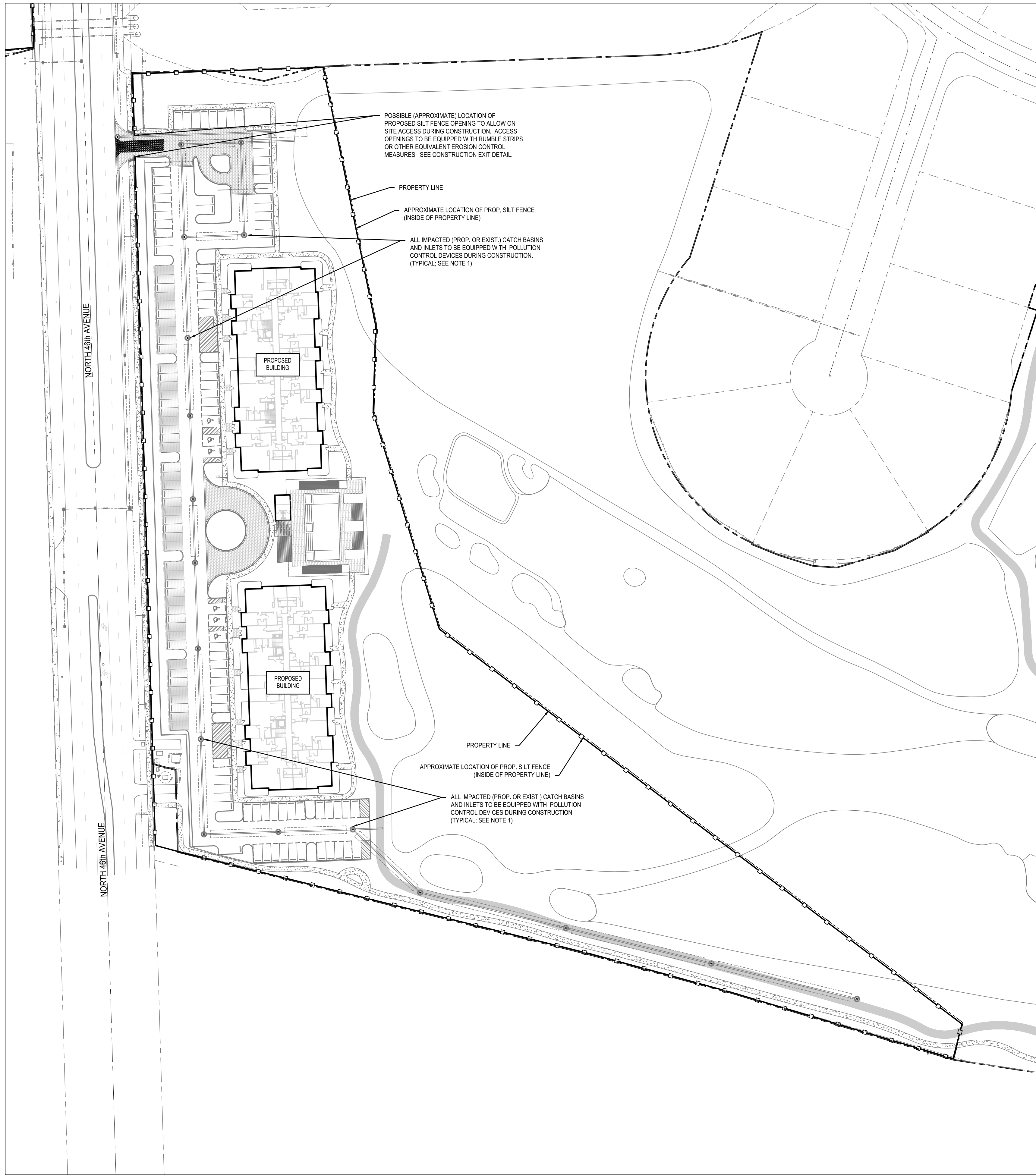
NOTES:

1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (90 CM).
2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS.
3. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET (3 M) APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES (30 CM). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET (1.8 M).
4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES (10 CM) WIDE AND 4 INCHES (10 CM) DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH (25 MM) LONG, THE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES (5 CM) AND SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.
6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES (20 CM) OF THE FILTER FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.
7. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.

SILT FENCE INSTALLATION DETAIL

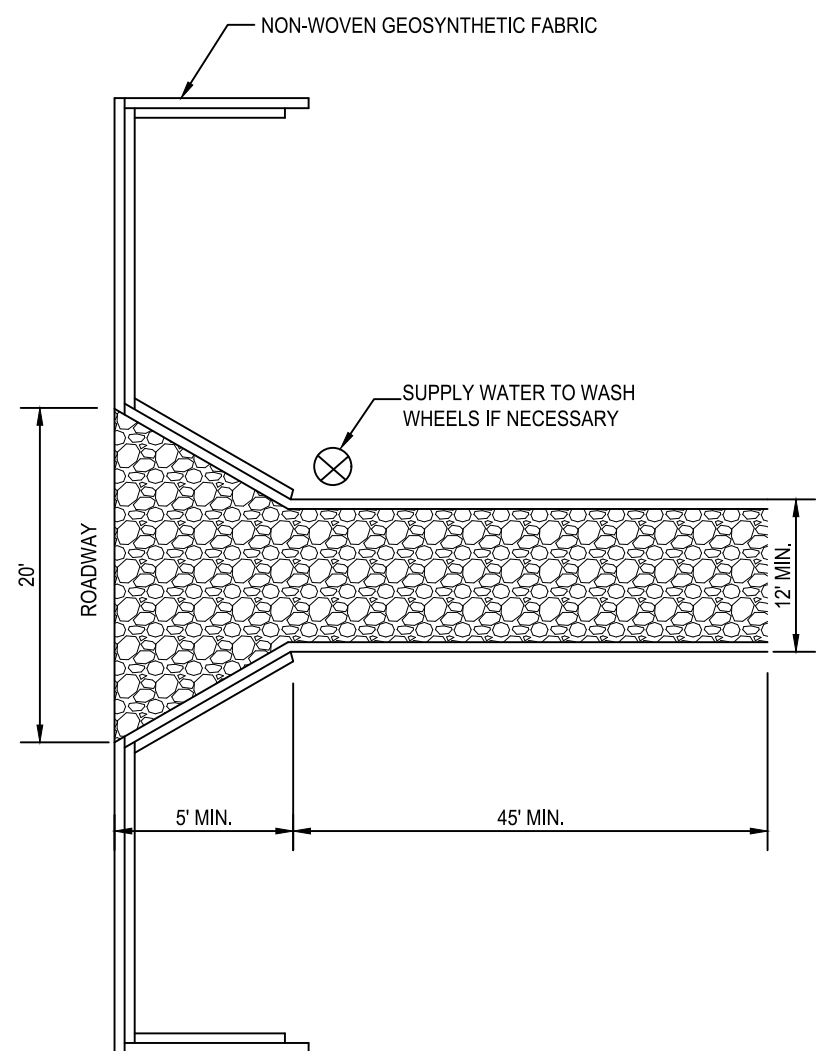


ATTACHING TWO SILT FENCES NOT TO SCALE

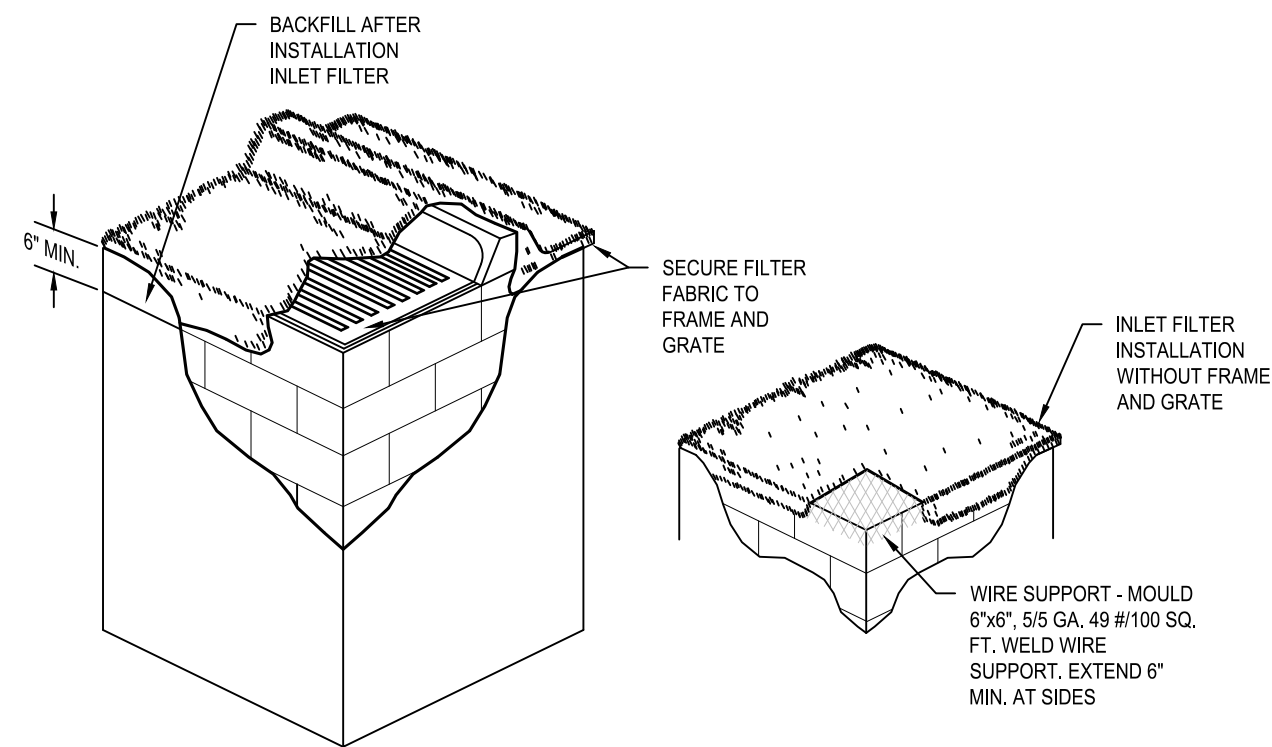


POLLUTION CONTROL NOTES:

1. ALL DRAINAGE INLETS IMPACTED BY THIS PROJECT DURING CONSTRUCTION TO BE EQUIPPED WITH FILTER FABRIC AND/OR APPROVED EQUIVALENT OVER GRATES PER DETAIL THIS SHEET. CURB INLETS TO BE EQUIPPED WITH CURB INLET POLLUTION CONTROL DEVICES
2. SILT FENCES SHALL BE INSTALLED AS NECESSARY TO CONTROL OR PREVENT OFF-SITE DISCHARGE OF SEDIMENT.
3. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE STABILIZED WITHIN A REASONABLE PERIOD OF TIME TO ASSURE MINIMUM EROSION OF SOILS.
4. CONTRACTOR TO COMPLY WITH TERMS AND CONDITIONS OF NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT.
5. CONTRACTOR TO PROVIDE FOR TRUCK WASH DOWN AREA AT ALL TEMPORARY AND PERMANENT ENTRANCES/EXITS DURING CONSTRUCTION.
6. IF DEBRIS IS FOUND IN THE CITY'S STORMWATER SYSTEM PRIOR TO CONSTRUCTION, THE GENERAL CONTRACTOR SHALL INFORM THE CITY'S STORMWATER OPERATIONS DEPARTMENT FOR PROPER REMOVAL.
7. IF DEBRIS IS FOUND IN THE CITY'S STORM SYSTEMS AS A RESULT OF CONSTRUCTION ACTIVITIES, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VACUUM CLEAN THE CITY'S STORMWATER SYSTEM & PROVIDE PROOF OF ITS FINAL CONDITION TO THE CITY'S STORMWATER OPERATIONS GROUP FOR APPROVAL PRIOR TO FINAL C.O.



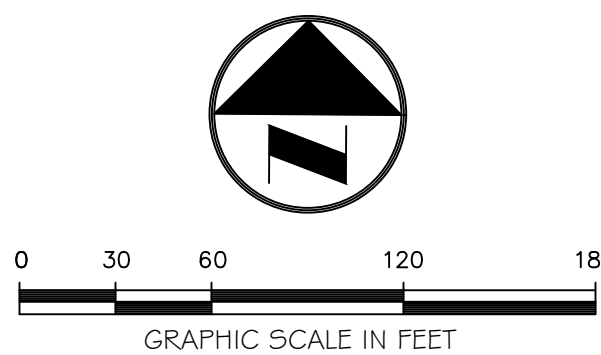
STABILIZED CONSTRUCTION EXIT NTS



NOTES:

1. CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM.
2. CONTRACTOR TO REMOVE FABRIC JUST PRIOR TO PAVING.
3. A SEDIMENT TRAP WILL BE EXCAVATED BEHIND THE CURB AT THE INLET. THE BASIN SHALL BE AT LEAST 12 TO 14" IN DEPTH, APPROXIMATELY 36" IN WIDTH, AND APPROXIMATELY 7 TO 10 FEET IN LENGTH PARALLEL TO THE CURB.
4. STORM WATER WILL REACH THE SEDIMENT TRAP VIA CURB CUTS ADJACENT TO EACH SIDE OF THE INLET STRUCTURE. THESE OPENINGS SHALL BE AT LEAST 12 INCHES IN LENGTH. STORM WATER MAY ALSO REACH THE BASIN VIA OVERLAND FLOW LAND AREA BEHIND THE CURB. THE CURB CUTS SHALL BE REPAIRED WHEN THE SEDIMENT TRAP IS REMOVED.

INLET FILTER DETAIL NTS



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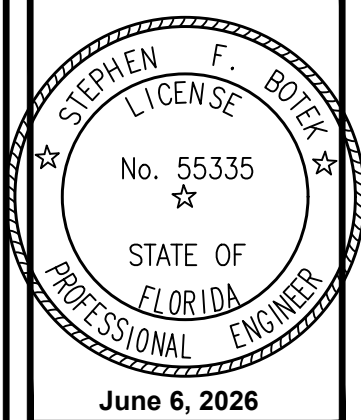
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EMERALD HILLS

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