

GENERAL NOTES

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1. HDPE AND PVC PIPES TO BE USED WITH WASTEWATER APPLICATIONS ONLY.
2. DUCTILE IRON PIPES MAY BE USED FOR WASTEWATER APPLICATIONS ONLY WITH SPECIFIC APPROVAL BY FCPW.
3. MINIMUM THICKNESS FOR HDPE PIPES SHALL BE DR 17 DUCTILE IRON PIPE SIZE (DIPS).
4. FOR SEWER INSTALLATIONS WITH NO LIVE LOAD AND NOT ALONG STREAMS BANKS, THE STANDARD PIPE SHALL BE DR 26 PVC OR HDPE DR 17 (DIPS) FOR PIPE SIZES 8-INCH THROUGH 48-INCH WITH MAXIMUM BURY DEPTH OF 20 FEET.
5. FOR SEWER INSTALLATIONS WITH HS20/25 LIVE LOADS, OR WITH BURY DEPTH GREATER THAN 20 FEET AND NOT ALONG STREAM BANKS, THE STANDARD PIPE SHALL BE DR 18 PVC (DIPS) OR HDPE DR 17 (DIPS) FOR PIPE SIZES 8-INCH THROUGH 30-INCH.
6. FOR SEWER INSTALLATIONS WITH NO LIVE LOADS AND LOCATED ALONG STREAM BANKS, THE STANDARD PIPE SHALL BE DR 17 HDPE DUCTILE IRON PIPE SIZE (DIPS) FOR PIPE SIZES 8-INCH THROUGH 48-INCH AND MAXIMUM BURY DEPTH OF 20 FEET.
7. FOR FORCE MAINS, REGARDLESS OF BURY DEPTH, LIVE LOAD REQUIREMENTS AND NOT ALONG RIVER BANKS, THE STANDARD PIPE SHALL BE HDPE DR 11 (DIPS) FOR PIPE SIZES 8-INCH THROUGH 30-INCH.
8. ALL SEWER LINES, WATER, REUSE LINES, AND FORCE MAIN LINES SHALL HAVE 3M™ EMS WARNING TAPE 7900 SERIES BURIED 4-FEET BELOW GROUND LEVEL INSTALLED ABOUT THE PIPE OR MINIMUM OF 1-FOOT ABOVE TOP OF PIPE. THIS SHALL INCLUDE SEWER LATERALS AND WATER SERVICE LINES.
9. ALL FORCE MAINS SHALL BE BUTT WELDED HDPE EXCEPT AT CREEK CROSSINGS AND BORINGS, DIP MAY BE USED ONLY ON AN EXCEPTIONAL BASIS AND APPROVED BY FCPW.
10. CREEK CROSSINGS AND BORINGS SHALL BE RESTRAINED JOINT DIP (SEE DETAIL 118).
11. ALL CONSTRUCTION METHODS AND MATERIALS AND MAJOR GLANDS TO BE USED IN FULTON COUNTY MUST BE MADE OF HDPE AND COMPLY WITH AWWA C906 MATERIAL DESIGNATION CODE PE4710, GLANDS THAT DO NOT MEET THE SPECIFICATIONS WILL NOT BE ACCEPTED.
12. RESTRAINT JOINTS WILL BE USED ON ALL HDPE TEES AND BENDS, THRUST BLOCKING DOES NOT PROVIDE ACCEPTABLE RESTRAINT AND IS PROHIBITED.
13. WATER MAINS TO USE DUCTILE IRON PIPES ONLY.
14. WATER SERVICE LINES TO BE TYPE K COPPER.

DIAMETRIC DEFLECTION OF HDPE PIPES					
DIMENSION RATIO	HEIGHT OF COVER*				
	5	10	15	20	25
PERCENT DEFLECTION**					
HDPE PIPE					
DR 11	1.74	2.04	2.57	3.09	3.61
DR 17	1.90	2.27	2.90	3.54	4.17

* ADDITIONAL APPROVAL BY FCPW SHALL BE REQUIRED FOR HEIGHTS OF COVER EXCEEDING 25 FEET AND BACK-UP DIAMETRIC DEFLECTION ANALYSIS SHALL BE SUBMITTED FOR REVIEW BY FCPW.

** INCLUDES +1% SAFETY MARGIN.

NOTES:

1. DIAMETRIC DEFLECTIONS ARE CALCULATED WITH THE FOLLOWING FORMULA:

$$\text{PERCENT DEFLECTION} = k(T_L W_E + W_L + W_S) / (PS + 0.061E')$$

WHERE:

PS (PIPE STIFFNESS FACTOR) = $2E/3(DR-1)^3$
 DR = DIMENSION RATIO
 k = BEDDING CONSTANT
 T_L = TIME LAG FACTOR
 W_E = EARTH LOAD PRESSURE = $wH/144$
 w = WEIGHT OF SOIL
 H = HEIGHT OF COVER
 W_L = H2O LIVE LOADS
 W_S = SURCHARGE PRESSURE
 E = MODULUS OF ELASTICITY OF PIPE MATERIAL
 E' = MODULUS OF SOIL REACTION

2. DEFLECTIONS COMPUTED USING A UNIT WEIGHT OF BACKFILL AT 120 LBS / CFT AND ASSUMED NO INTERNAL PRESSURE OR, EXCEPT FOR 5 FEET COVER HEIGHT, LIVE LOADS.
3. PIPE EMBEDMENT USED IN CALCULATIONS IS CLASS 1, 2, 3, OR 4, AS DEFINED IN ASTM D2321 WITH APPROPRIATE COMPACTION TO ACHIEVE AN E'=1000 PSI.

100-S.dwg December 10, 2025 10:16am

FULTON COUNTY STANDARD DETAIL 100
INDEX AND GENERAL NOTES

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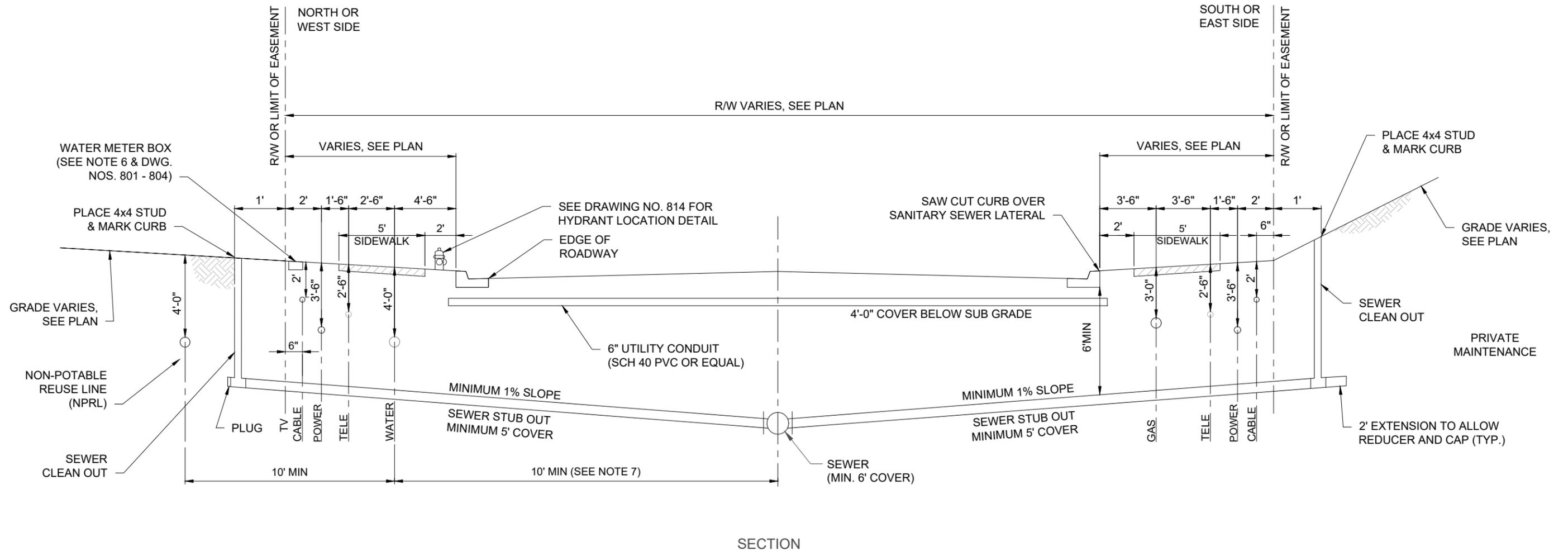
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DRAWING NO.
100

NOTES:

1. UNDER MULTIPLE UTILITY INSTALLATIONS OR RELOCATIONS, THE DEEPEST UTILITY SHALL BE INSTALLED AND TESTED FIRST TO AVOID INTERFERENCE WITH SERVICE LATERALS OR LINES.
2. UNLESS OTHERWISE DIRECTED BY FULTON COUNTY, INSTALLATION OF SEWER FORCE MAIN AND WATER MAIN SHALL BE INSTALLED TO THE LOWER ELEVATION INDICATED.
3. EXCEPT FOR WATER AND SEWER MAINS, ALL UTILITIES SHOWN ARE FOR ILLUSTRATION ONLY.
4. WHERE GRADE IS ELEVATED ABOVE ROAD, THEN THE DEPTH OF COVER SHALL BE MEASURED FROM EDGE OF PAVEMENT.
5. WATER MAIN SHALL BE LOCATED 4.5 FEET FROM BACK OF CURB IN NEW DEVELOPMENTS.
6. METER PLACEMENT SHALL BE INSIDE R/W FOR NON-DOT ROADS, OUTSIDE R/W FOR DOT ROADS OR AS REQUIRED BY LOCAL AUTHORITY W/JURISDICTION.
7. MINIMUM WATER/SEWER SEPARATION TO BE 10 FEET MINIMUM. EXCEPTIONS WILL ONLY BE ALLOWED UNDER FCPW'S SPECIFICATION EXPLICIT APPROVAL AND DIRECTIONS.

8. HDPE PIPES TO BE USED WITH WASTEWATER APPLICATIONS ONLY.
9. DUCTILE IRON PIPES MAY BE USED FOR WASTEWATER APPLICATIONS ONLY WITH SPECIFIC APPROVAL BY THE FCPW.
10. MINIMUM THICKNESS FOR HDPE PIPES SHALL BE DR 17.
11. FOR SEWER INSTALLATIONS WITH NO LIVE LOAD AND NOT ALONG STREAM BANKS, THE STANDARD PIPE SHALL BE DR 26 PVC OR HDPE DR 17 IN DUCTILE IRON PIPE SIZE (DIPS) FOR PIPE SIZE 8-INCH THROUGH 48-INCH WITH A MAXIMUM BURY DEPTH OF 20 FEET.
12. FOR SEWER INSTALLATIONS WITH HS20/25 LIVE LOADS, OR WITH BURY DEPTH GREATER THAN 20 FEET AND NOT ALONG STREAM BANKS, THE STANDARD PIPE SHALL BE DR 18 PVC OR HDPE DR 17 IN DUCTILE IRON PIPE SIZE (DIPS) FOR PIPE SIZES 8-INCH THROUGH 30-INCH.
13. FOR FORCE MAINS, REGARDLESS OF BURY DEPTH, LIVE LOAD REQUIREMENTS AND NOT ALONG RIVERBANKS, THE STANDARD PIPE SHALL BE HDPE DR 11 IN DUCTILE IRON PIPE SIZE (DIPS) FOR PIPE SIZES 8-INCH THROUGH 30-INCH.
14. FOR SEWER INSTALLATIONS WITH NO LIVE LOADS AND LOCATED ALONG STREAM BANKS, THE STANDARD PIPE SHALL BE DR 17 HDPE IN DUCTILE IRON PIPE SIZE (DIPS) FOR PIPE SIZES 8-INCH THROUGH 48-INCH AND MAXIMUM BURY DEPTH OF 20 FEET.
15. ALL SEWER LINES, WATER LINES, REUSE LINES, AND FORCE MAIN LINES SHALL HAVE 3M™ EMS WARNING TAPE 7900 SERIES BURIED 4-FEET BELOW GROUND LEVEL INSTALLED ABOUT THE PIPE OR MINIMUM OF 1-FOOT ABOVE TOP OF PIPE. THIS SHALL INCLUDE SEWER LATERALS AND WATER SERVICE LINES.



FULTON COUNTY STANDARD DETAIL 101

UTILITY LOCATION
TYPICAL CROSS-SECTION

DATE	REVISIONS	DATE	REVISIONS

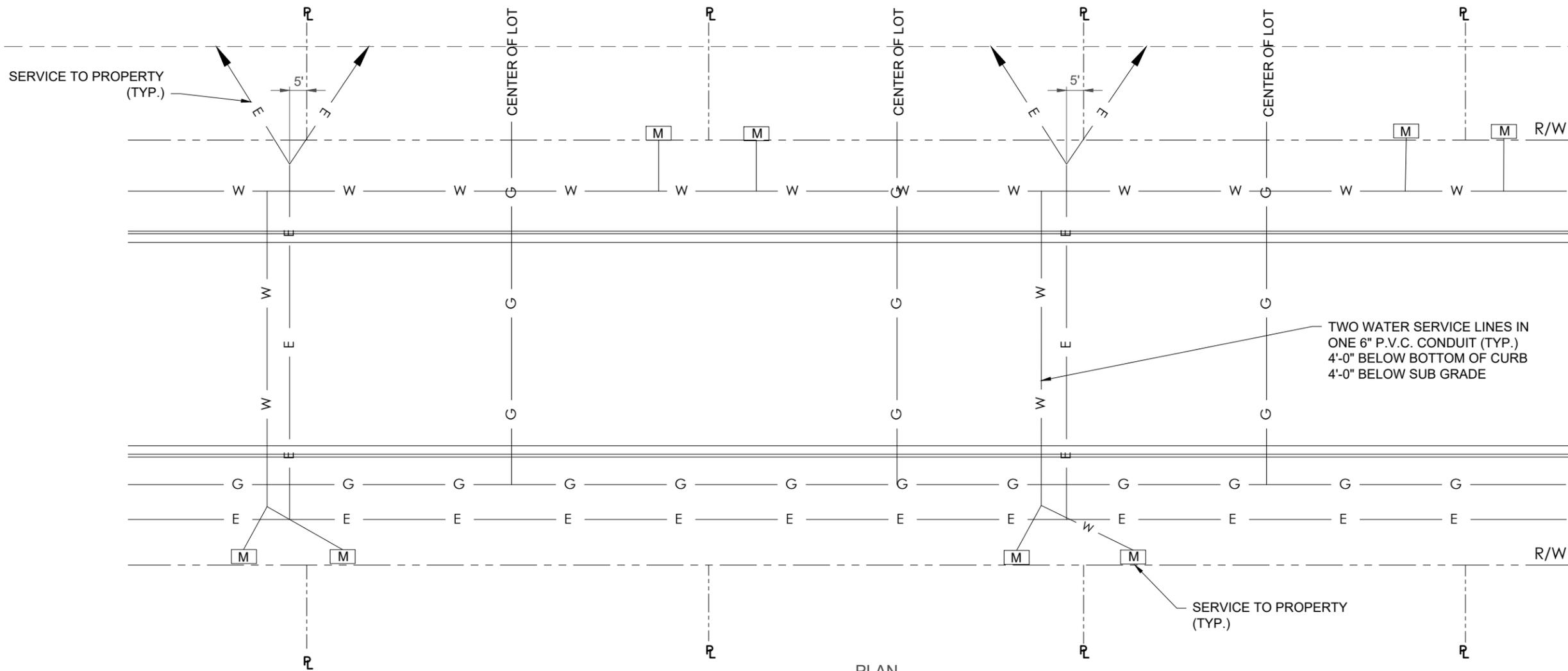
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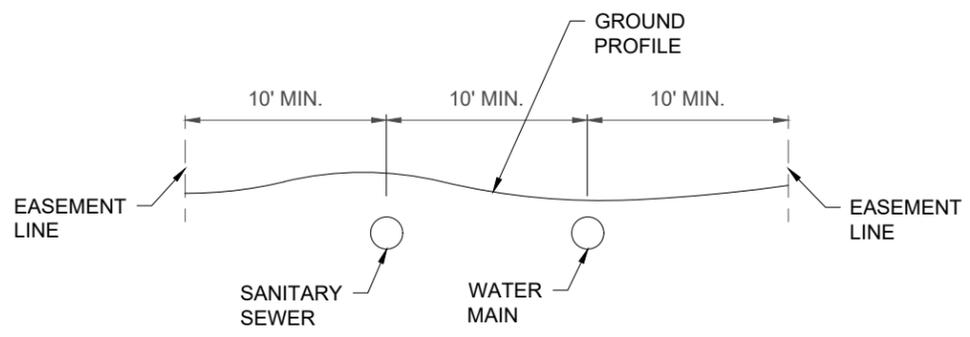
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101



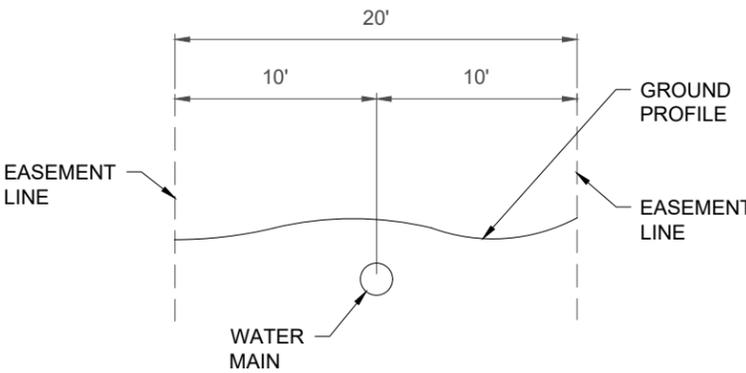
TWO WATER SERVICE LINES IN ONE 6" P.V.C. CONDUIT (TYP.)
 4'-0" BELOW BOTTOM OF CURB
 4'-0" BELOW SUB GRADE

PLAN
 NTS



PROFILE
 NTS

TYPICAL COMBINATION PERMANENT EASEMENT
 SANITARY SEWER AND WATER LINES



PROFILE
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TYPICAL WATER LINE PERMANENT EASEMENT

LEGEND	
— E —	ELECTRIC LINE
— G —	GAS LINE
— W —	WATER LINE
- - - - -	RIGHT OF WAY (R/W) LINE
- - - - -	PARCEL LINE
— [M] —	WATER METER
- - - - -	EASEMENT LINE

NOTE

- METER PLACMENT SHALL BE INSIDE R/W FOR NON-DOT ROADS, OUTSIDE R/W FOR ROADS OR AS REQUIRED BY LOCAL AUTHORITIES W/ JURISDICTION.
- REFER TO 100-S, #1-8

FULTON COUNTY STANDARD DETAIL 102

CONDUIT LOCATION FOR UNDERGROUND UTILITIES
 COMBINATION SEWER EASEMENT

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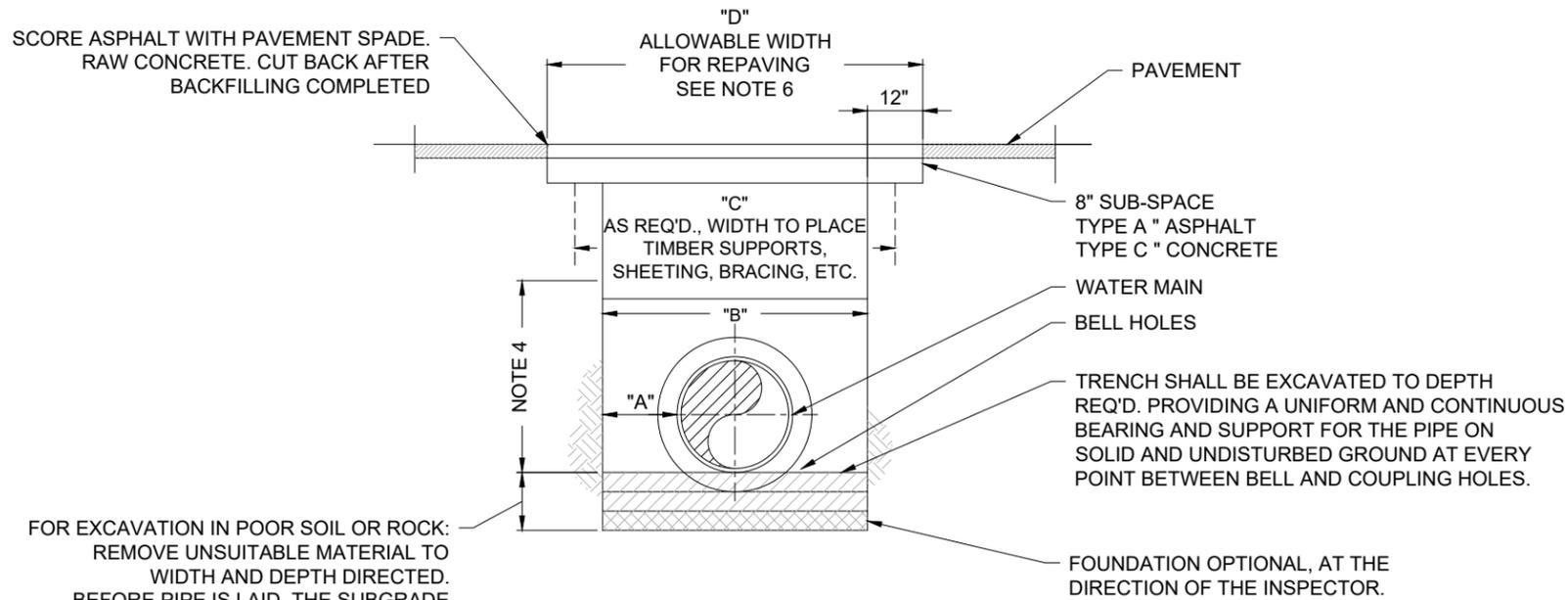
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DRAWING NO.
102

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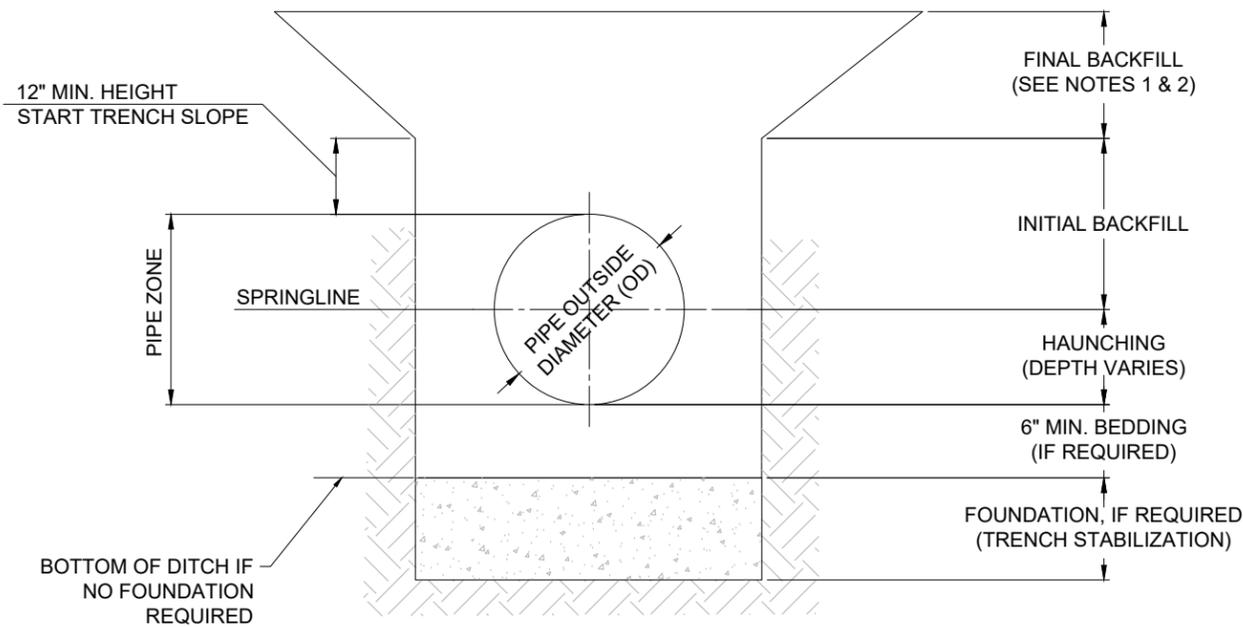


TRENCH DETAIL

FOR EXCAVATION IN POOR SOIL OR ROCK: REMOVE UNSUITABLE MATERIAL TO WIDTH AND DEPTH DIRECTED. BEFORE PIPE IS LAID, THE SUBGRADE SHALL BE BACKFILLED WITH AN APPROVED MATERIAL IN 3" LAYERS. EACH LAYER SHALL BE THOROUGHLY TAMPED TO 95 % COMPACTION.

NOTES:

1. COMPACTION: BACKFILLS SHALL BE BUILT-UP IN LAYERS AND EACH LAYER SHALL BE THOROUGHLY COMPACTED BEFORE BEGINNING ANOTHER LAYER. LAYERS SHALL BE NO MORE THAN 6" IN DEPTH. PUDDLING WILL NOT BE PERMITTED, NOR WILL FROZEN OR WET MATERIAL BE PLACED IN TRENCHES.
2. COMPACTION STANDARDS: ALL BACKFILL MATERIALS USED SHALL CONTAIN A SUFFICIENT AMOUNT OF MOISTURE FOR PROPER COMPACTION AND THESE MATERIALS SHALL BE COMPACTED AT NOT LESS THAN 95% OF THEIR OPTIMUM COMPACTION FOR ANY SPECIFIC SOIL CLASSIFICATION AS DETERMINED BY THE MODIFIED PROCTOR TEST ASTM D698.
3. COMPACTION TESTS: COMPACTION TESTS MAY BE REQUIRED IN EXISTING OR PROPOSED STREETS, SIDEWALKS, DRIVES AND OTHER EXISTING OR PROPOSED PAVED AREAS AT VARYING DEPTHS AND AT INTERVALS AS DETERMINED BY THE ENGINEER WITH A MINIMUM OF ONE TEST PER JOB, AND A MAXIMUM OF ONE REQUIRED TEST FOR EACH 400' OR LESS OF WATER MAIN CONSTRUCTION, UNLESS SOIL CONDITIONS OR CONSTRUCTION PRACTICES, IN THE OPINION OF THE ENGINEER, WARRANT THE NEED FOR ADDITIONAL TESTS.
4. NO BOULDERS OR LOOSE ROCKS PERMITTED IN THE BACKFILL AT THE BOTTOM OF PIPE TRENCH TO 2'-0" ABOVE PIPE.
5. ALL DESIGNS BASED ON FULLY COMPACTED BACKFILL AND UNIFORMLY SUPPORTED PIPE.
6. FOR PAVEMENT CUT REPAIRS SEE DRAWING 109.
7. FOR CONSTRUCTION WITHIN AHJ (AUTHORITY HAVING JURISDICTION) OTHER THAN FULTON COUNTY, BACKFILL AND COMPACTION STANDARDS SHALL BE IN ACCORDANCE WITH THE PERMITTING AGENCY OR AGENCIES.



TRENCH TERMINOLOGY

PIPE SIZE (NOM)	"A" SIDE CLEARANCE (IN.)		"B" DITCH WIDTH (IN.)				"C" SHORING WIDTH (ADDITIONAL-INCH)	"D" CUT REPAIR WIDTH (FT.)			
	SOIL	ROCK	SOIL		ROCK			SOIL		ROCK	
			MJ	SJ	MJ	SJ		MJ	SJ	MJ	SJ
3/4"-2"	2	6	NA	8	NA	14	AS APPROVED	NA	3.00	NA	3.17
4"	9	12	27	25	33	31	AS APPROVED	4.25	4.08	4.75	4.58
6"	9	12	28	28	34	33	AS APPROVED	4.33	4.33	4.83	4.75
8"	9	12	32	30	38	35	AS APPROVED	4.67	4.50	5.17	4.92
10"	9	12	34	32	40	37	AS APPROVED	4.83	4.67	5.33	5.08
12"	9	12	36	34	42	39	AS APPROVED	5.00	4.83	5.50	5.25
14"	9	14	39	36	49	46	AS APPROVED	5.25	5.00	6.08	5.83
16"	9	14	42	38	52	48	AS APPROVED	5.50	5.17	6.33	6.00
20"	9	14	45	42	55	52	AS APPROVED	5.75	5.50	6.58	6.33
24"	9	14	50	48	60	57	AS APPROVED	6.17	6.00	7.00	6.75
30"	9	18	58	54	76	63	AS APPROVED	6.83	6.50	8.33	7.25
36"	9	18	64	61	82	69	AS APPROVED	7.33	7.08	8.83	7.75
42"	9	18	72	67	90	77	AS APPROVED	8.00	7.58	9.50	8.42
48"	9	18	78	73	96	90	AS APPROVED	8.50	8.08	10.00	9.75

FULTON COUNTY STANDARD DETAIL 103

ALLOWABLE TRENCH WIDTHS
WATER MAINS

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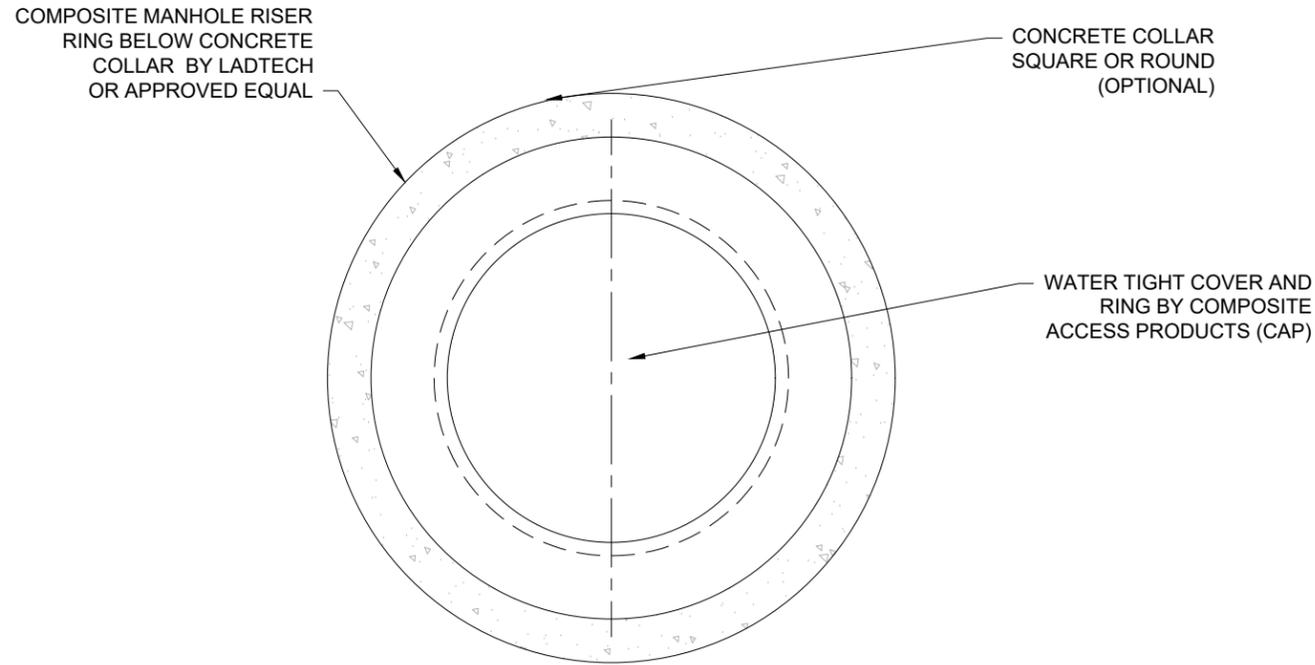
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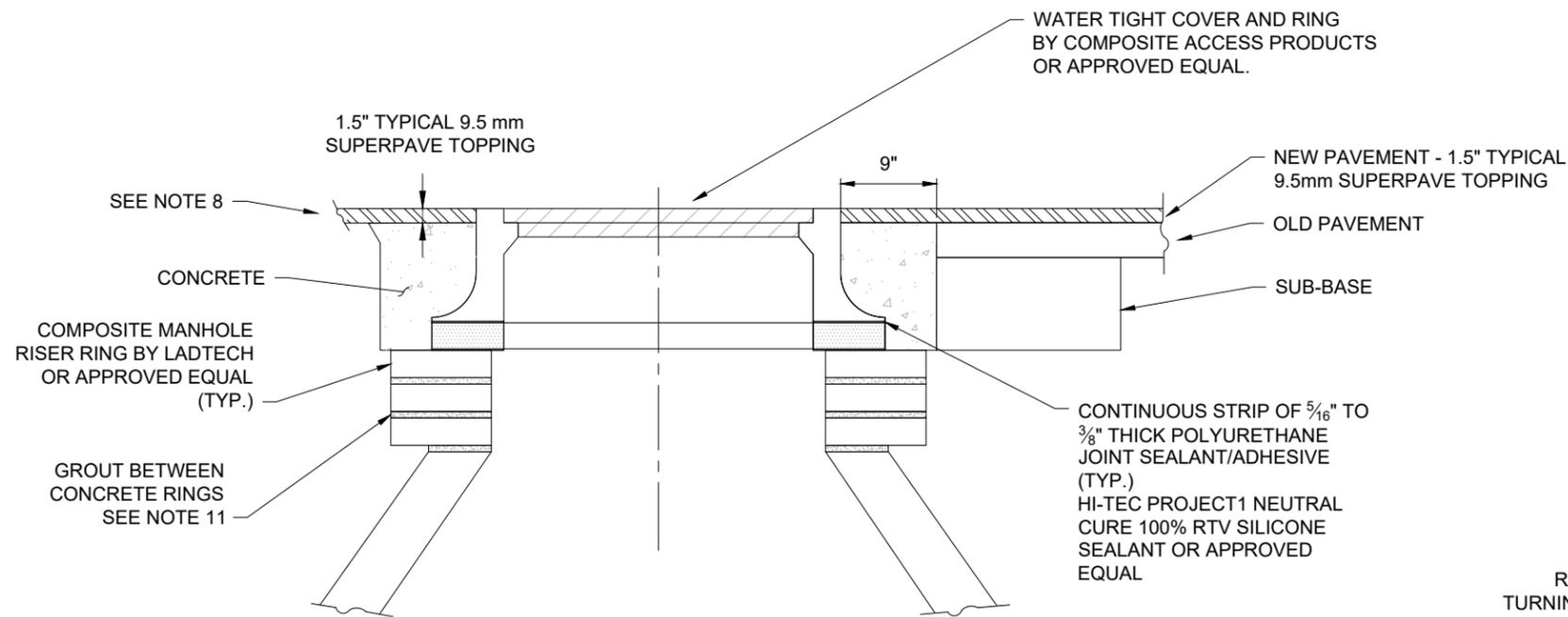
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103



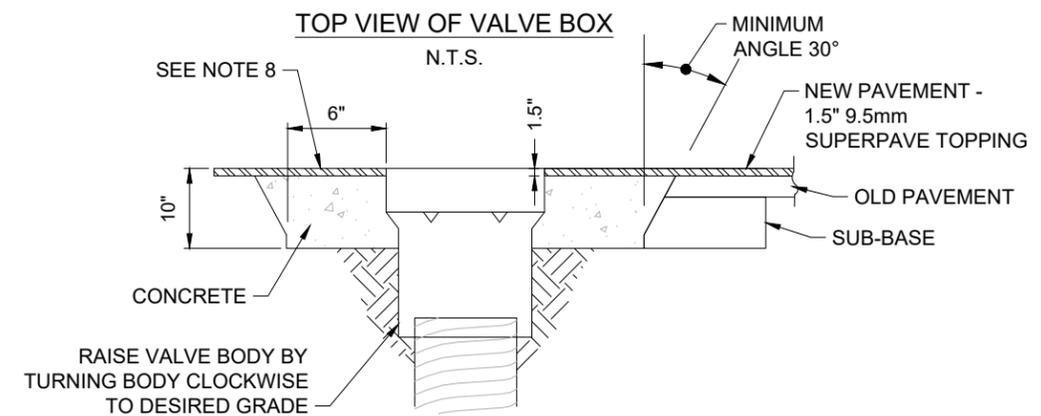
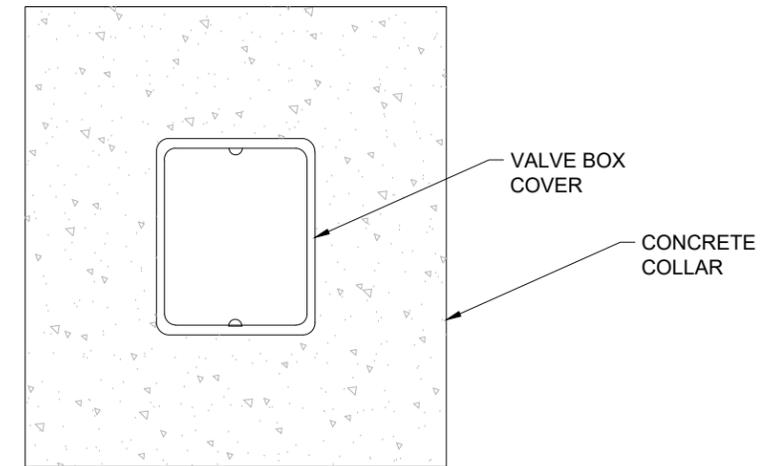
TOP VIEW OF RISERS
N.T.S.



MANHOLE DETAIL
N.T.S.

NOTES:

1. STRUCTURES SHALL NOT BE ADJUSTED FOR A PERIOD OF 24 HOURS AFTER RESURFACING IS COMPLETED IN THAT AREA.
2. ASPHALT SHALL BE SAWCUT TO MAKE A SMOOTH, EVEN EDGE.
3. STRUCTURE COVER SHALL BE ADJUSTED TO FIT FLUSH WITH STREET SURFACE.
4. ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 4000 PSI.
5. CONCRETE WILL BE USED TO BACKFILL THE ENTIRE WORKING AREA.
6. FINISHING CONCRETE SHALL BE DONE BY USE OF A TROWEL OR FLOAT.
7. CLEAN ALL ASPHALT OFF SEWER MANHOLES AT TIME OF PAVING TO ALLOW ACCESS TO SYSTEM AT ALL TIMES.
8. THE STATE, COUNTY AND/OR CITY HAS THE OPTION OF EXTENDING THE CONCRETE TO THE FINISHED GRADE INSTEAD OF PAVING WITH ASPHALT. PLEASE VERIFY WITH THE INSPECTOR.
9. TOP VIEW OF MANHOLE OPTIONAL SQUARE OR ROUND CONCRETE COLLAR.
10. COMPOSITE RING, COVER & RISER RING SHALL BE THE STANDARD.
11. PRECAST CONCRETE RISER RING MAY BE USED ONLY WITH FCPW'S EXPLICIT EXCEPTIONAL APPROVAL.



VALVE
N.T.S.

FULTON COUNTY STANDARD DETAIL 105
STRUCTURE ADJUSTMENT

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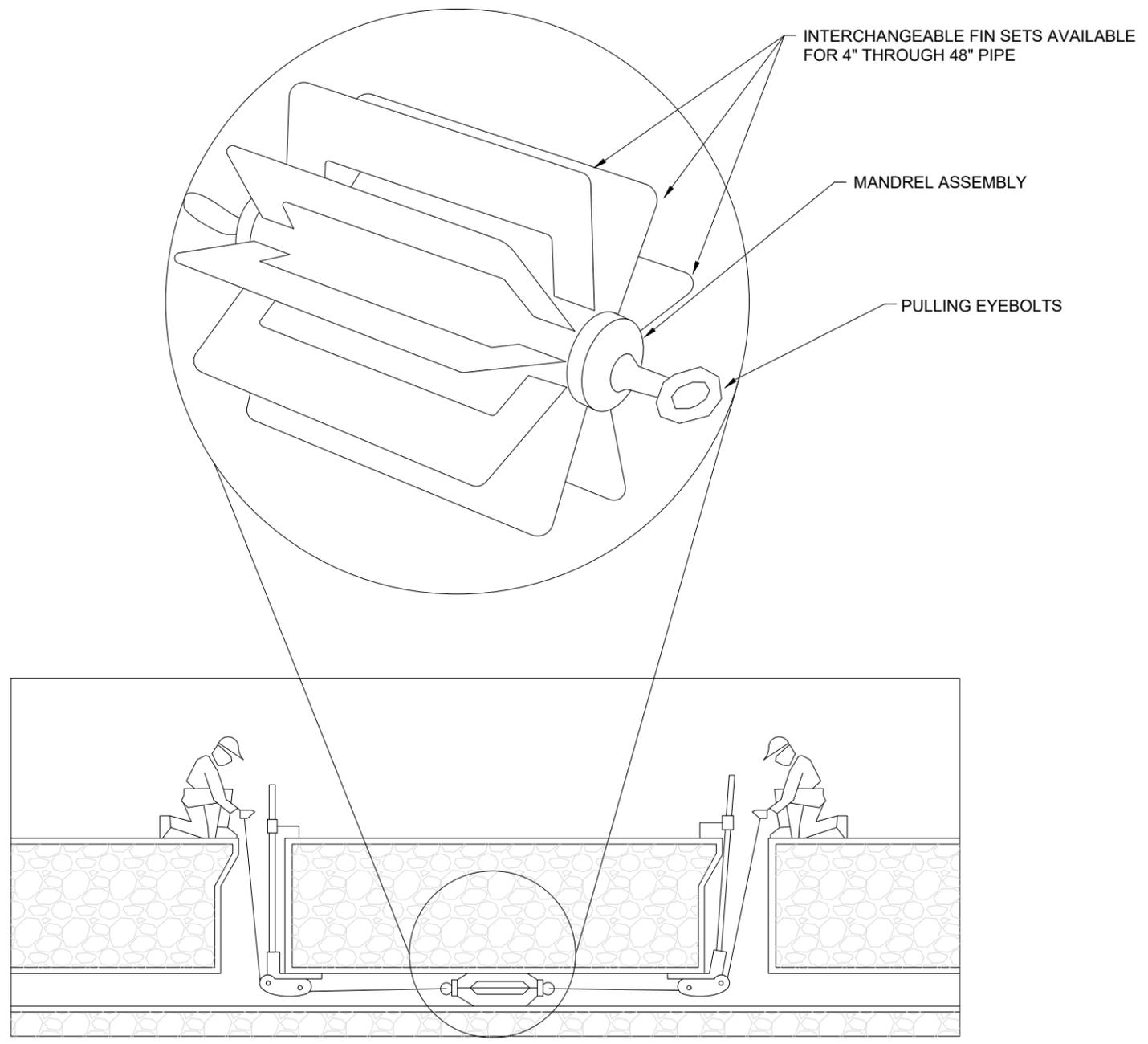


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DRAWING NO.

105

106-S.dwg December 10, 2025 -- 10:16am



NOTES:

1. AFTER INSTALLATION, A DEFLECTION TEST IS REQUIRED NO SOONER THAN 24 HOURS OF TRENCH BACKFILLING. INITIAL DEFLECTION SHALL BE LIMITED TO 3% OF THE UN-DEFLECTED DIAMETER.
2. PIPE SHALL BE HDPE DR 17 (MIN.) WITH BUTT WELDED JOINTS OR PVC DR 25 (MIN.) WITH CONFINED ELASTOMERIC SEALED BELL & SPIGOT JOINTS. PIPE LENGTHS SHALL BE MANUFACTURER'S STANDARD.
3. MANDREL TO BE MADE FROM AIRCRAFT-QUALITY ALUMINUM OR APPROVED EQUAL.
4. EACH FIN SET IS TO BE STAMPED WITH THE PIPE DIAMETER AND PERCENT DEFLECTION.
5. MANDREL LENGTH TO BE 10 INCHES; MANDREL WEIGHT TO BE 4 LBS.
6. MANDREL TO BE PROVIDED BY CONTRACTOR IT MUST BE MEASURED AND APPROVED FIRST BY FULTON COUNTY INSPECTOR.
7. A SECOND DEFLECTION TEST MAY BE REQUIRED IF DETERMINED TO BE NECESSARY BY THE INSPECTOR.

NOMINAL SIZE (INCHES)	AVERAGE SIZE DIAMETER (INCHES)	BASE INSIDE DIAMETER (INCHES)	3% DEFLECTION	5% DEFLECTION	7.5 % DEFLECTION
6	5.893	5.742	5.569	5.454	5.31
8	7.891	7.665	7.435	7.281	7.09
10	9.864	9.563	9.276	9.084	8.84
12	11.737	11.361	11.020	10.792	10.51
15	14.374	13.898	13.481	13.023	12.86

FULTON COUNTY STANDARD DETAIL 106
MANDREL DETAIL FOR PVC PIPE INSTALLATION

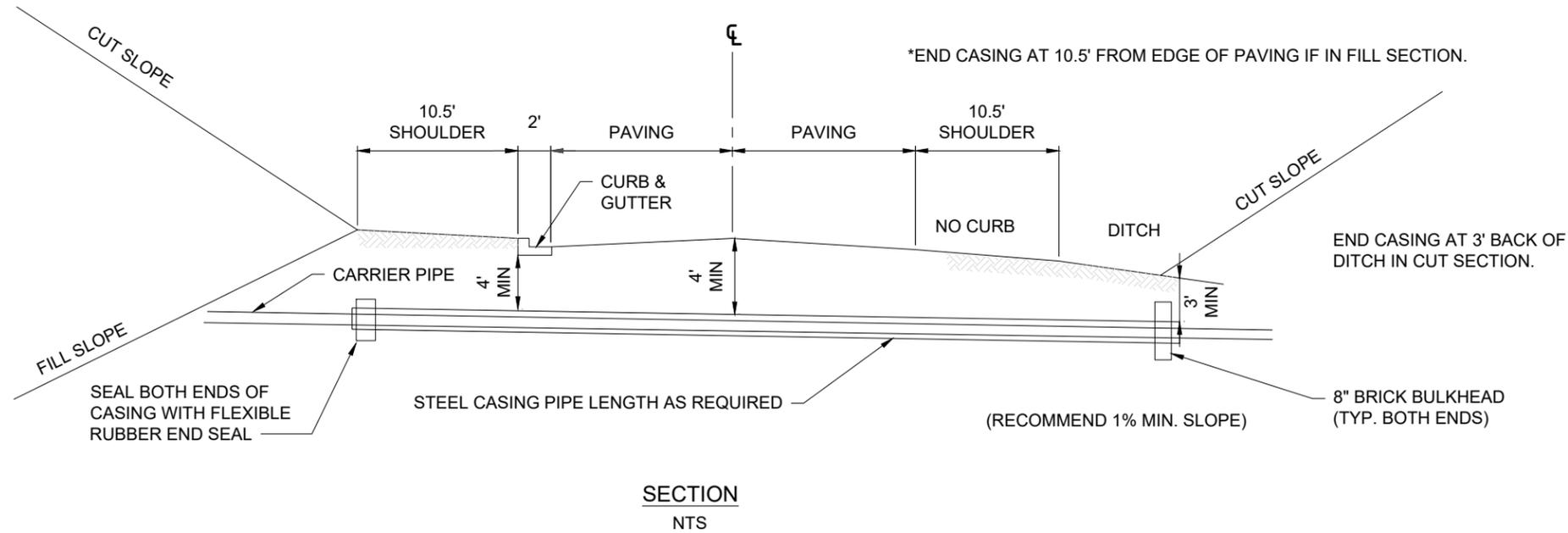
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DRAWING NO.
106



PIPE CASING: THE STEEL CASING PIPE SHALL BE MANUFACTURED FROM STEEL CONFORMING TO ASTM: A 139, GRADE B. SIZE AND THICKNESS SHALL BE AS FOLLOWS:

TABLE 107-1 UNDER RAILROADS		
PIPE DIAMETER INCHES (I.D)	CASING DIAMETER INCHES (I.D.) MIN.	CASING WALL THICKNESS INCHES
6	16	0.250
8	18	0.375
10	20	0.375
12	22	0.375
14	28	0.375
16	30	0.406
18	32	0.406
20	36	0.469
24	42	0.469
30	48	0.500

NOTES:

- CASING TO BE STEEL PIPE (ROUND) WITH 45° BEVELED EDGES.
- ALL CUTS TO BE SQUARED TO END.
- JOIN ALL PIPE WITH DOUBLE BEAD BUTT WELDS.
- AUGER HEAD DIAMETER CANNOT EXCEED DIAMETER OF CASING BY MORE THAN 2 INCHES.
- BORING AND CASING SHALL BE INSTALLED SIMULTANEOUSLY.
- ANYTHING 6" OR LARGER REQUIRES BORE AND CASE.
- CASING PIPE SHALL HAVE A PROTECTIVE COATING CONSISTING OF AN EPOXY HAVING A MINIMUM DRY FILM THICKNESS OF SIXTEEN (16) MILS. SURFACE PREPARATION SHALL BE SSPC-SP-10, AND EPOXY SHALL HAVE A MINIMUM SOLIDS CONTENT OF SIXTY-FIVE (65) PERCENT BY VOLUME AND SHALL BE AIRLESS SPRAY APPLIED. MINIMUM DRYING TIME SHALL BE SEVEN DAYS. EPOXY SHALL BE TNEEC, CARBOLINE, OR VALSPAR.
- PIT TO BE A MINIMUM OF 10' FROM EDGE OF PAVEMENT IN GDOT RIGHT-OF-WAY.
- THREE STAINLESS STEEL CASING SPACERS ARE REQUIRED PER JOINT.
- CASING PIPE SHALL BE STEEL.
- FIELD LOCKING GASKETS REQUIRED INSIDE OF CASING.
- ALL BORING MUST BE APPROVED AND A PERMIT OBTAINED FROM PUBLIC WORKS (404) 612-7400 AND AUTHORITIES HAVING JURISDICTION AS REQUIRED.

* SEE DRAWING NO. 129 FOR RAILROAD, INTERSTATE HIGHWAY AND SPACER DETAILS.

TABLE 107-2 UNDER HIGHWAYS			
PIPE DIAMETER INCHES (I.D)	BELL OD	CASING DIAMETER INCHES (I.D) MIN.	WALL THICKNESS INCHES
6	9.19	16	0.250
8	11.33	18	0.250
10	13.56	20	0.250
12	15.74	22	0.375
14	21.43	28	0.375
16	23.7	30	0.375
18	25.82	32	0.375
20	29.88	36	0.375
24	36.34	42	0.500
30	38.30	48	0.500

FULTON COUNTY STANDARD DETAIL 107

ROADWAY/RAILROAD CROSSING
BORE AND CASE DETAIL

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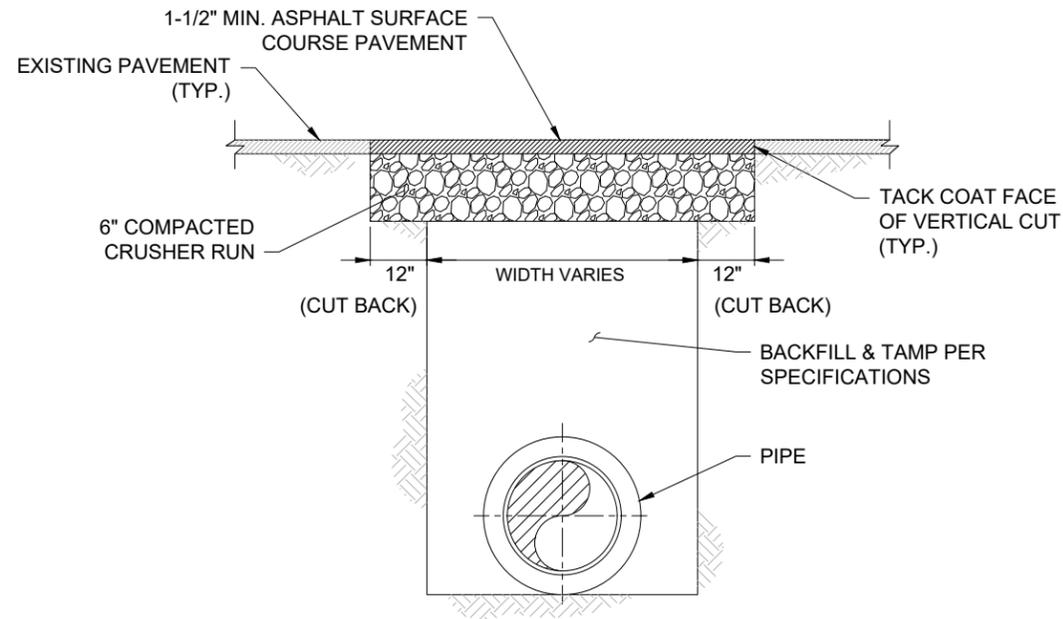
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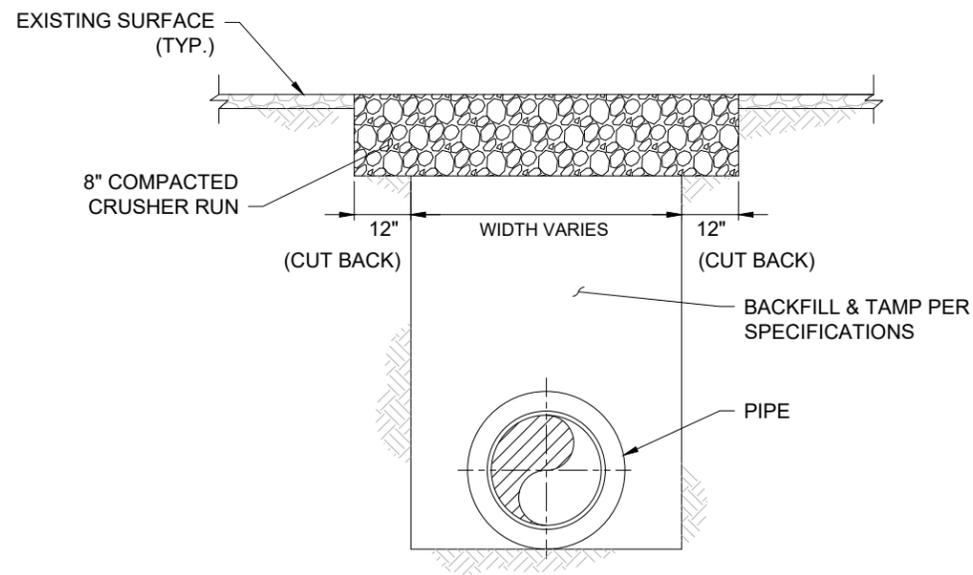
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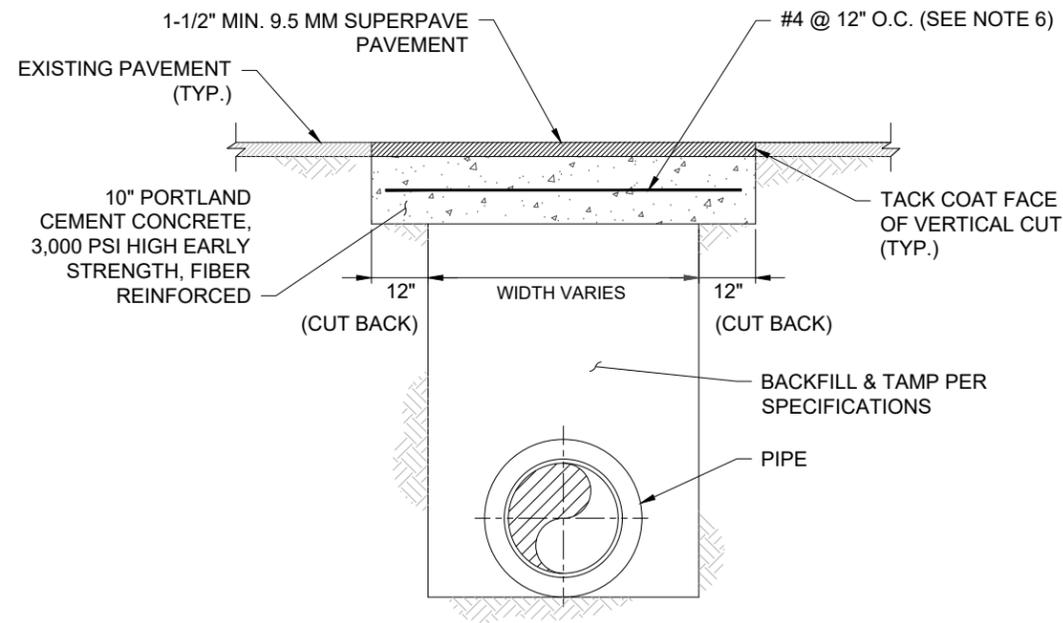
107



TYPE "A" CUT REPAIR DETAIL
T&G OR ASPHALT RDS
(DRIVEWAYS, A-30)



TYPE "B" CUT REPAIR DETAIL
DIRT OR GRAVEL RDS
(DRIVEWAYS, A-30)



TYPE "C" CUT REPAIR DETAIL
GEORGIA DOT AND FULTON CO.

NOTES:

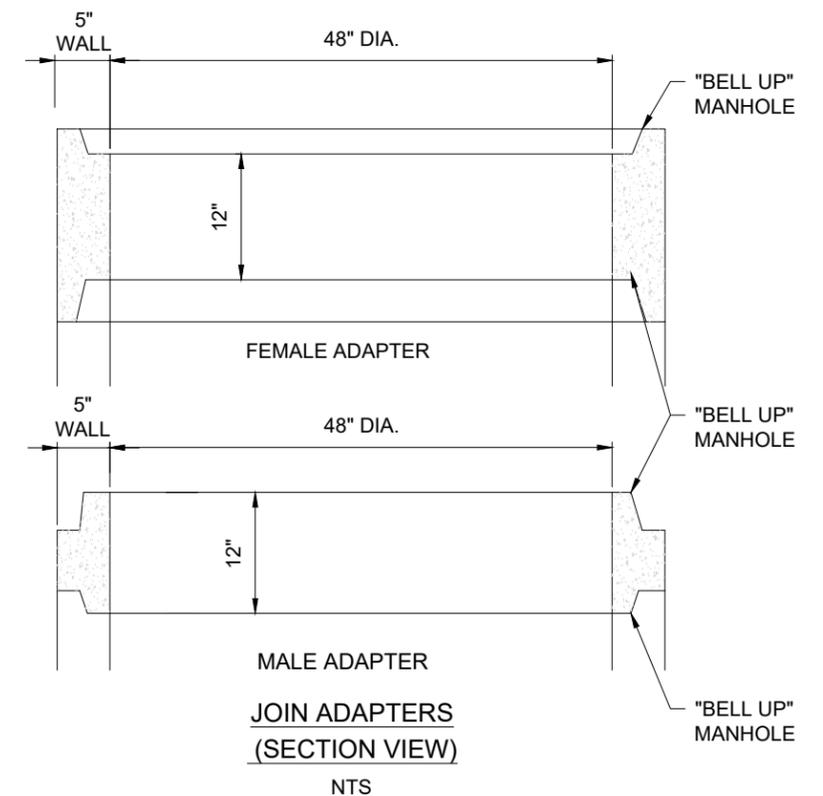
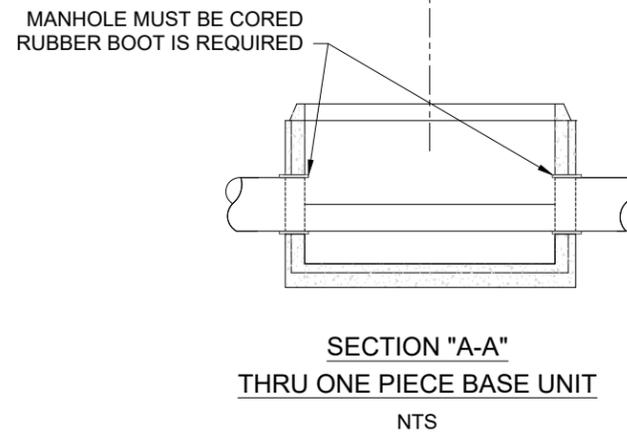
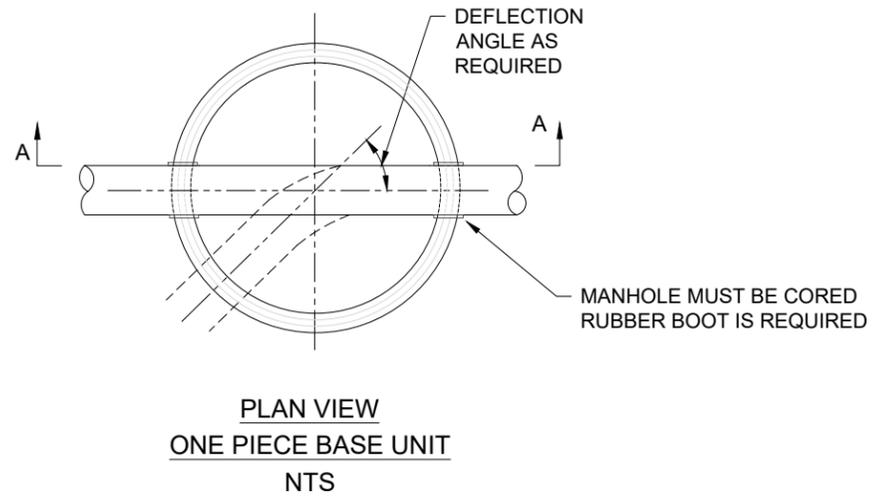
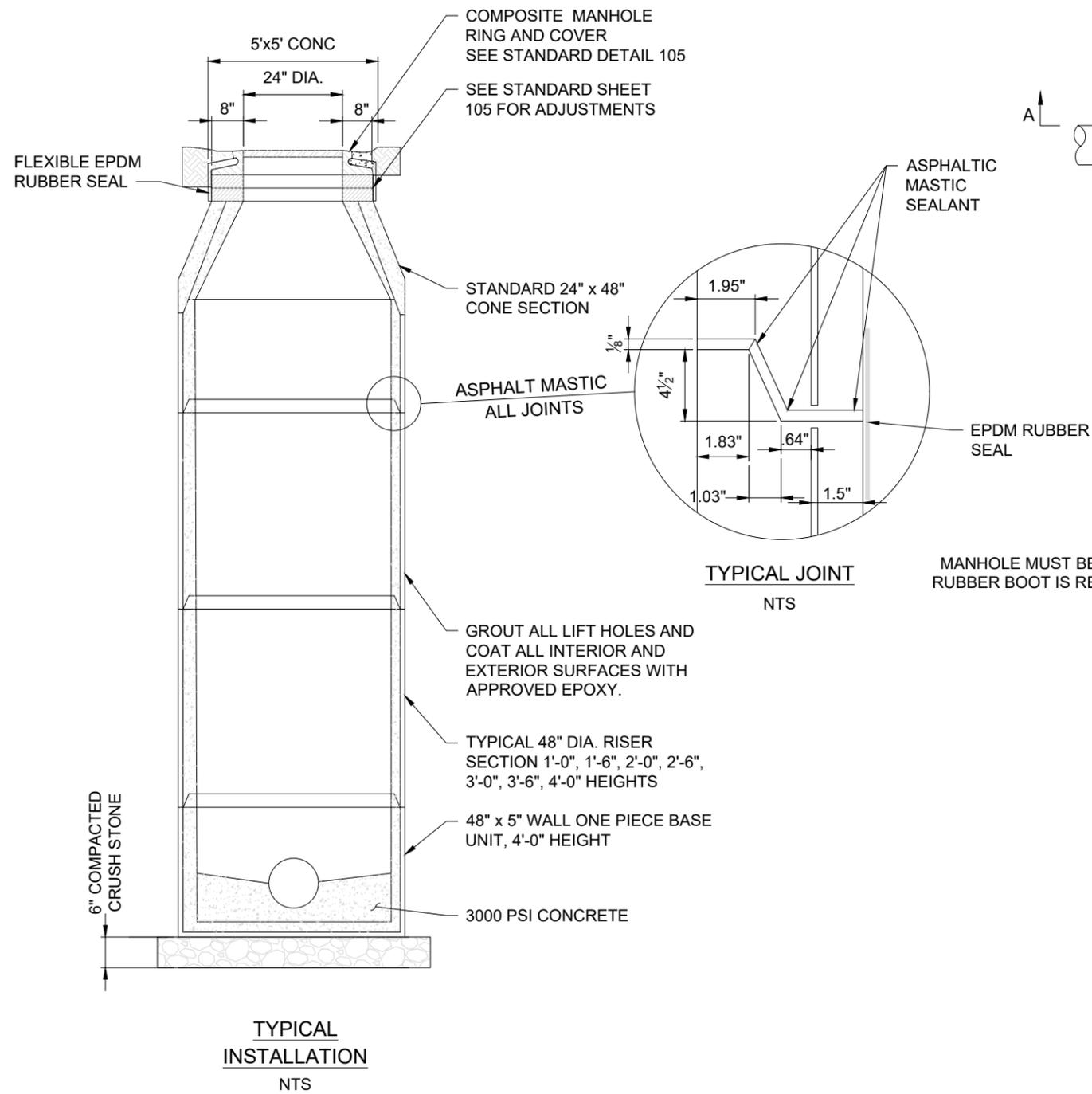
1. ALL MATERIALS AND METHODS OF INSTALLATION SHALL COMPLY WITH LATEST EDITION OF GDOT'S, "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. FOR TYPE "C", THE CONTRACTOR SHALL COVER THE POURED CONCRETE WITH STEEL PLATES A MINIMUM OF 24 HOURS TO ALLOW ADEQUATE SET-UP.
3. CONTRACTOR'S TRAFFIC CONTROL PLAN MUST BE APPROVED BY THE AUTHORITY HAVING JURISDICTION BEFORE WORK BEGINS.
4. FINAL APPROVAL OF CONTRACTOR'S PAVEMENT CUT REPAIRS RESIDES WITH THE AUTHORITY HAVING JURISDICTION. CONTRACTOR SHALL MEET ALL REQUIREMENTS OF SAID AUTHORITY.
5. FOR TRENCH AND CUT WIDTHS, SEE DWG. NO. 103.
6. PROVIDE #4 REBARS @ 12-INCH O.C. WHEN PIPE SIZE IS GREATER THAN 16-INCH OR TRENCH WIDTH IS GREATER THAN 3 FEET.

109-S.dwg December 10, 2025 10:16am

FULTON COUNTY STANDARD DETAIL 109 PAVEMENT CUT REPAIRS/STANDARD UTILITY CUT TYPE A, B & C		DATE	REVISIONS	DATE	REVISIONS	DGS/DRN/CHKD: MB/EB/ML APPROVED: TM DATE: 01-21-2026		FULTON COUNTY PUBLIC WORKS 141 PRYOR ST. ATLANTA, GA. 30303 404-612-7400 FAX: 404-224-0498	DRAWING NO.
									109

NOTES:

1. HOLES TO BE PRECAST; IF PRECAST HOLES ARE NOT AVAILABLE, MANHOLE MUST BE CORED AND RUBBER BOOT IS REQUIRED.
2. MAXIMUM HOLE SIZE = PIPE O.D. + 4"
3. USE CONCENTRIC CONIC SECTIONS IN RIGHT-OF-WAY.
4. OUTFALL MANHOLES MUST HAVE CAST IN PLACE RINGS.
5. ON ALL SECTIONS BELOW THE WATER TABLE, 8" EXTERNAL SEAL WRAP WILL BE REQUIRED.



FULTON COUNTY STANDARD DETAIL 113
 PRECAST CONCRETE MANHOLE DETAILS

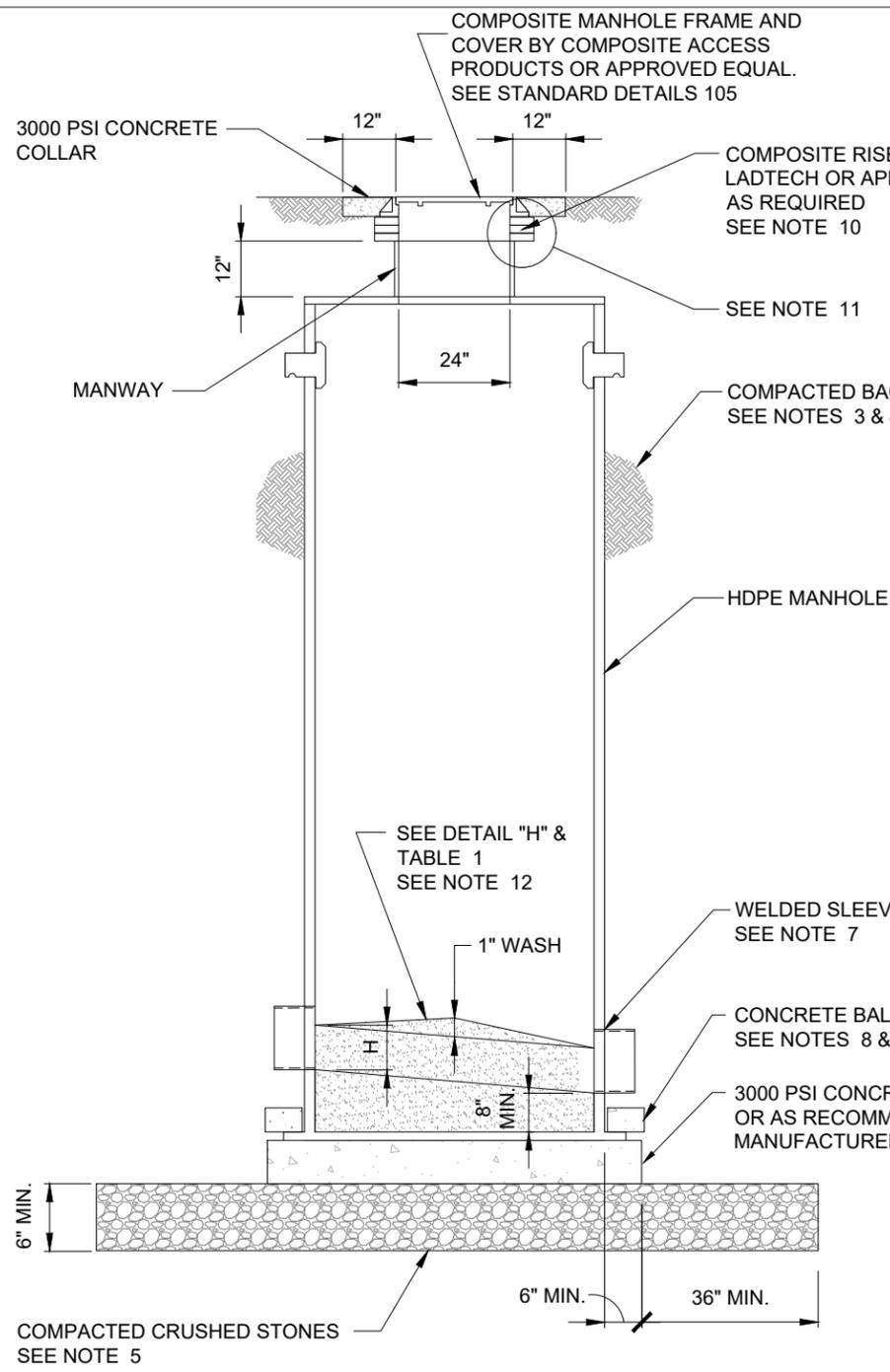
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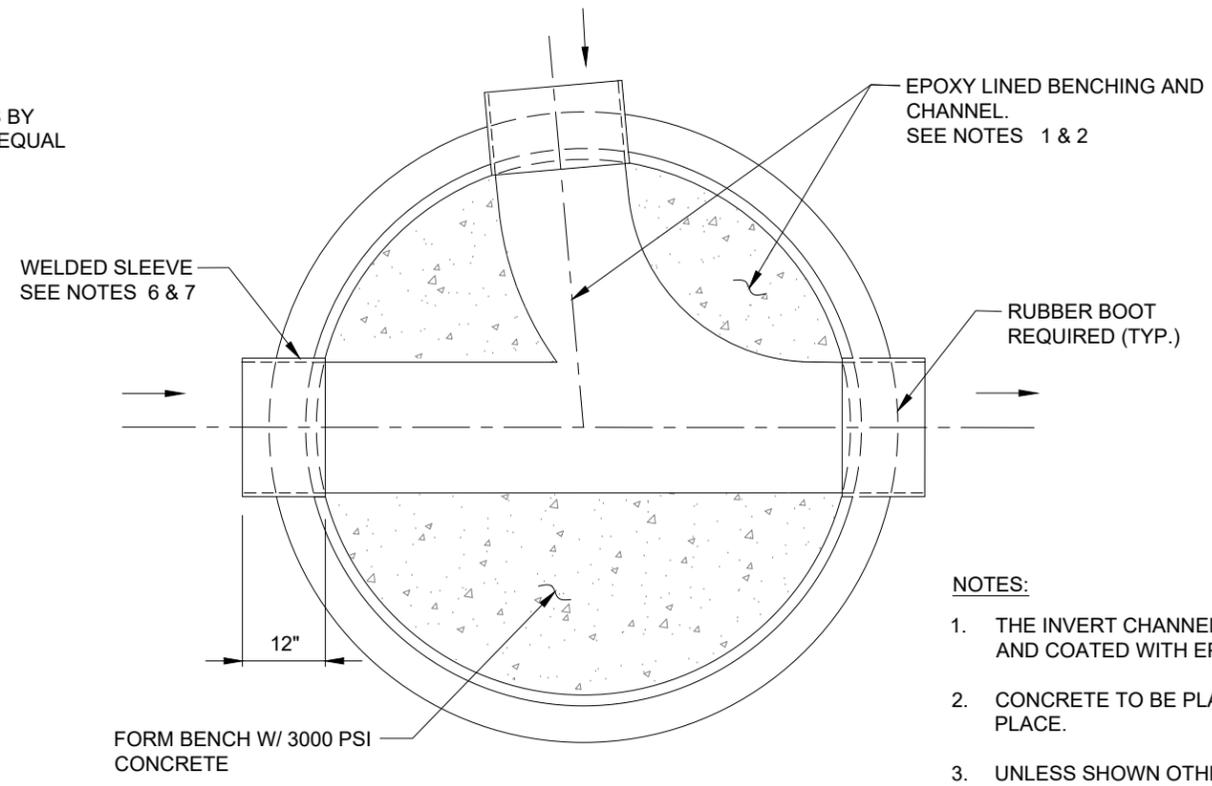


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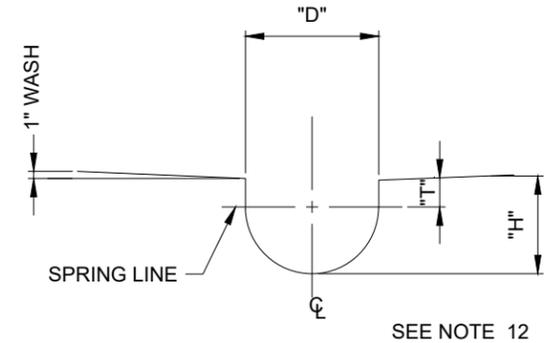
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113



SECTIONAL VIEW
N.T.S.



BASE PLAN VIEW
N.T.S.



DETAIL "H"
N.T.S.

TABLE 1

"D"	"T"	"H"
INSIDE DIA. PIPE (IN.)	VERTICAL TANGENT (IN.)	HEIGHT OF WATER TABLE (IN.)
8	2 1/2	6 1/2
10	3	8
12	3 1/2	9 1/2
15	4 1/2	12
18	5 1/2	14 1/2
21	6 1/2	17
24	7 1/2	19 1/2
27	8	21 1/2
30	9	24
33	10	26 1/2
36	11	29

NOTES:

1. THE INVERT CHANNELS AND BENCH SHALL BE FORMED USING 3,000 PSI CONCRETE AND COATED WITH EPOXY LINER.
2. CONCRETE TO BE PLACED IN MANHOLE AFTER THE MANHOLE HAS BEEN SET IN PLACE.
3. UNLESS SHOWN OTHERWISE ON DRAWINGS AND APPROVED BY FCPW, SAND CRUSHED STONE, OR PEA GRAVEL SHALL BE USED FOR BACKFILL AROUND THE MANHOLE FOR A MINIMUM DISTANCE OF 3.5 FEET FROM THE OUTSIDE SURFACE AND EXTENDING THE FULL HEIGHT OF THE MANHOLE.
4. BACKFILL SHALL BE PLACED IN LAYERS OF NOT MORE THAN 12 LOOSE MEASURE INCHES AND COMPACTED TO A MINIMUM OF 90% STANDARD PROCTOR DENSITY OR AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
5. COMPACT TO 95% STANDARD PROCTOR DENSITY UNLESS OTHERWISE APPROVED BY FCPW.
6. ALTERNATE MEANS OF PIPE PENETRATIONS AND CONNECTIONS MAY BE USED AS RECOMMENDED BY MANHOLE MANUFACTURER AND APPROVED BY FCPW.
7. ALL HDPE TO HDPE SURFACES MUST BE FULL PENETRATION EXTRUSION WELDS UNLESS OTHERWISE SPECIFIED.
8. PROVIDE AN ANCHOR CONNECTION RING TO BE USED IN CONNECTION WITH A CONCRETE BALLAST.
9. CONCRETE BALLAST REQUIREMENTS SHALL BE AS DETERMINED BY DESIGN ENGINEER AND AS APPROVED BY FCPW.
10. RISER RINGS SHALL HAVE A CLEAR OPENING EQUAL OR LESS THAN THE OPENING OF THE FRAME.
11. APPLY A 3/8-INCH BEAD OF BUTYL RUBBER SEALANT BETWEEN THE FOLLOWING CONTACTING SURFACES:
 - MANHOLE FRAME AND RISER RINGS
 - RISER RINGS
 - RISER RING AND HDPE MANWAY
12. "H" & "T" DIMENSIONS APPLY ONLY AT THE UPSTREAM INSIDE EDGE OF MANHOLE.
13. ALL HDPE MANHOLES TO HAVE A MINIMUM THICKNESS OF SDR DIPS 17.

FULTON COUNTY STANDARD DETAIL 114A

STANDARD SEWER MANHOLE
HDPE MANHOLES - NON-TRAFFIC

DATE	REVISIONS	DATE	REVISIONS

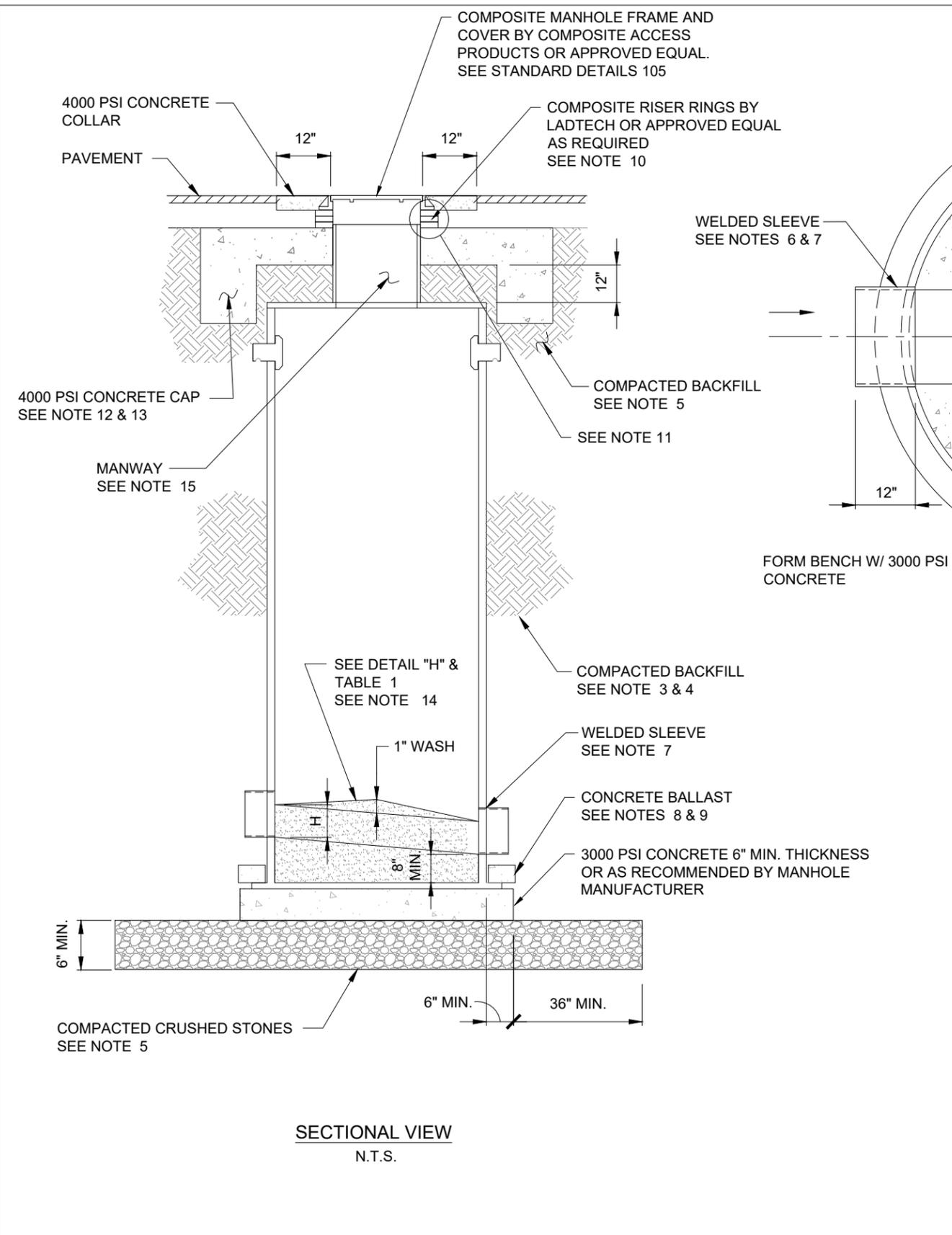
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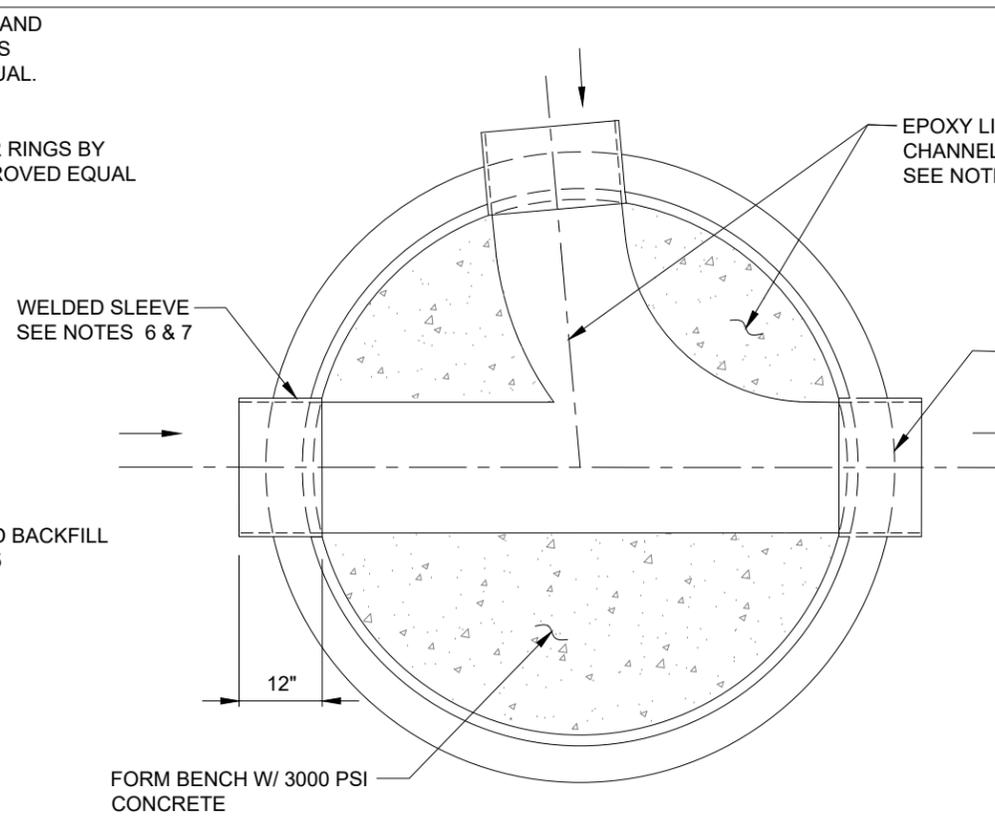
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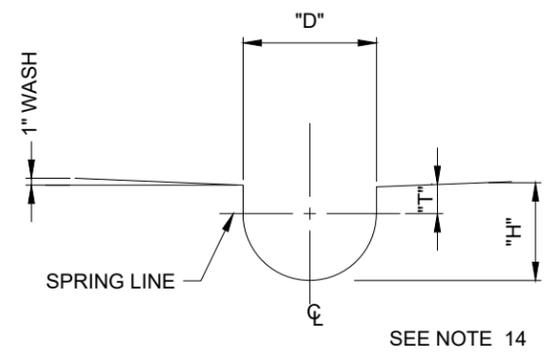
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SECTIONAL VIEW
N.T.S.



BASE PLAN VIEW
N.T.S.



DETAIL "H"
N.T.S.

NOTES:

1. THE INVERT CHANNELS AND BENCH SHALL BE FORMED USING 3,000 PSI CONCRETE AND COATED WITH EPOXY LINER.
2. CONCRETE TO BE PLACED IN MANHOLE AFTER THE MANHOLE HAS BEEN SET IN PLACE.
3. UNLESS SHOWN OTHERWISE ON DRAWINGS AND APPROVED BY FCPW, SAND CRUSHED STONE, OR PEA GRAVEL SHALL BE USED FOR BACKFILL AROUND THE MANHOLE FOR A MINIMUM DISTANCE OF 3.5 FEET FROM THE OUTSIDE SURFACE AND EXTENDING THE FULL HEIGHT OF THE MANHOLE.
4. BACKFILL SHALL BE PLACED IN LAYERS OF NOT MORE THAN 12 LOOSE MEASURE INCHES AND COMPACTED TO A MINIMUM OF 90% STANDARD PROCTOR DENSITY OR AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
5. COMPACT TO 95% STANDARD PROCTOR DENSITY UNLESS OTHERWISE APPROVED BY FCPW.
6. ALTERNATE MEANS OF PIPE PENETRATIONS AND CONNECTIONS MAY BE USED AS RECOMMENDED BY MANHOLE MANUFACTURER AND APPROVED BY FCPW.
7. ALL HDPE TO HDPE SURFACES MUST BE FULL PENETRATION EXTRUSION WELDS UNLESS OTHERWISE SPECIFIED.
8. PROVIDE AN ANCHOR CONNECTION RING TO BE USED IN CONNECTION WITH A CONCRETE BALLAST.
9. CONCRETE BALLAST REQUIREMENTS SHALL BE AS DETERMINED BY DESIGN ENGINEER AND AS APPROVED BY FCPW.
10. RISER RINGS SHALL HAVE A CLEAR OPENING EQUAL OR LESS THAN THE OPENING OF THE FRAME.
11. APPLY A 3/8-INCH BEAD OF BUTYL RUBBER SEALANT BETWEEN THE FOLLOWING CONTACTING SURFACES:
 - MANHOLE FRAME AND RISER RINGS
 - RISER RINGS
 - RISER RING AND HDPE MANWAY
12. CONCRETE CAP SHALL BE DESIGNED TO DISPERSE LOAD INTO THE SOIL AND AVOID DIRECTLY ONTO THE MANHOLE.
13. DESIGN OF THE CONCRETE CAP SHALL BE AS DETERMINED BY THE ENGINEER.
14. "H" & "T" DIMENSION APPLY ONLY AT THE UPSTREAM EDGE OF MANHOLE.
15. HEIGHT OF MANWAY TO BE DETERMINED BY CONCRETE CAP DESIGN.
16. ALL HDPE MANHOLES TO HAVE A MINIMUM THICKNESS OF SDR DIPS 17.

TABLE 1		
"D"	"T"	"H"
INSIDE DIA. PIPE (IN.)	VERTICAL TANGENT (IN.)	HEIGHT OF WATER TABLE (IN.)
8	2 1/2	6 1/2
10	3	8
12	3 1/2	9 1/2
15	4 1/2	12
18	5 1/2	14 1/2
21	6 1/2	17
24	7 1/2	19 1/2
27	8	21 1/2
30	9	24
33	10	26 1/2
36	11	29

FULTON COUNTY STANDARD DETAIL 114B

STANDARD SEWER MANHOLE
HDPE MANHOLES - TRAFFIC

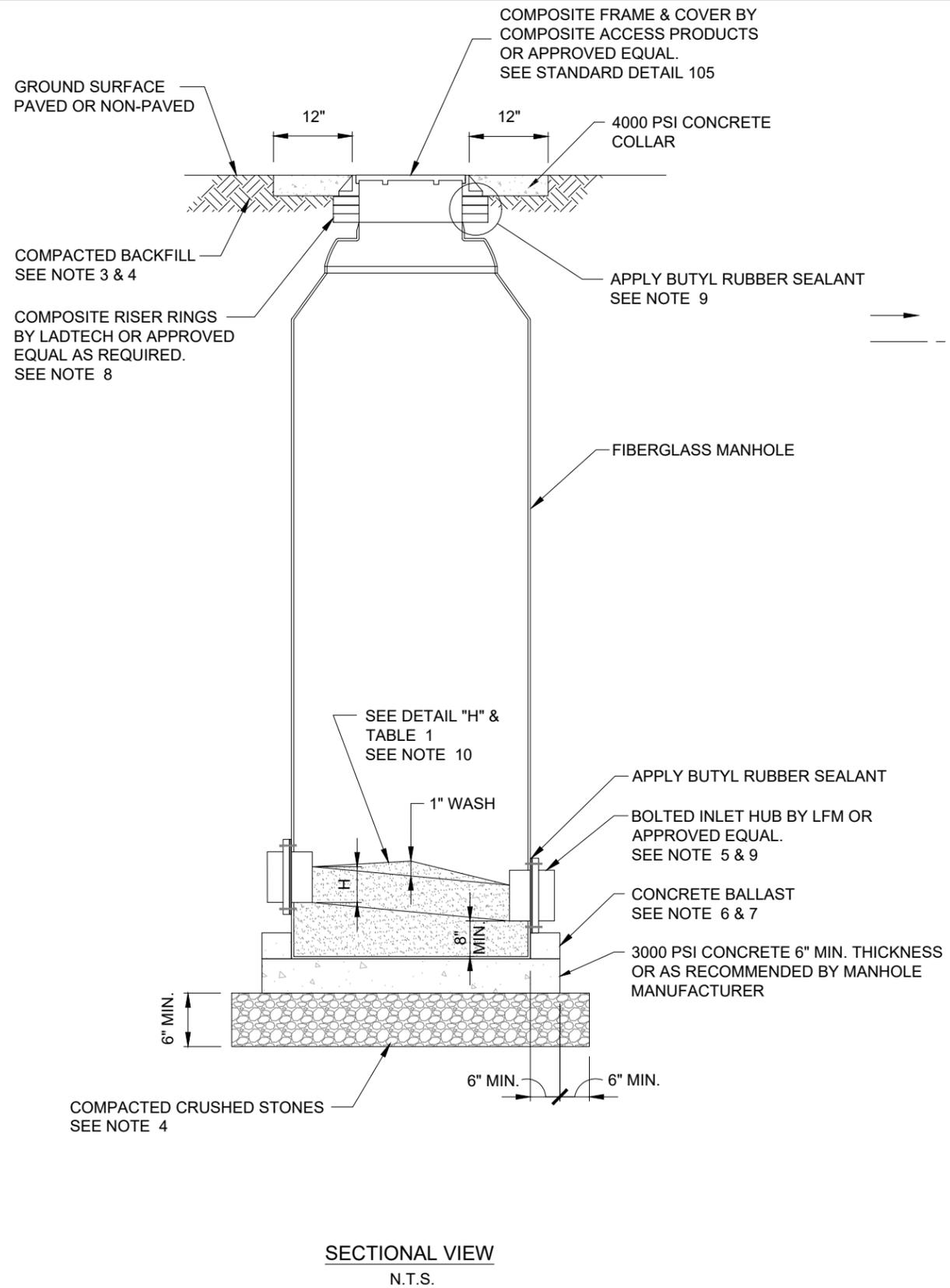
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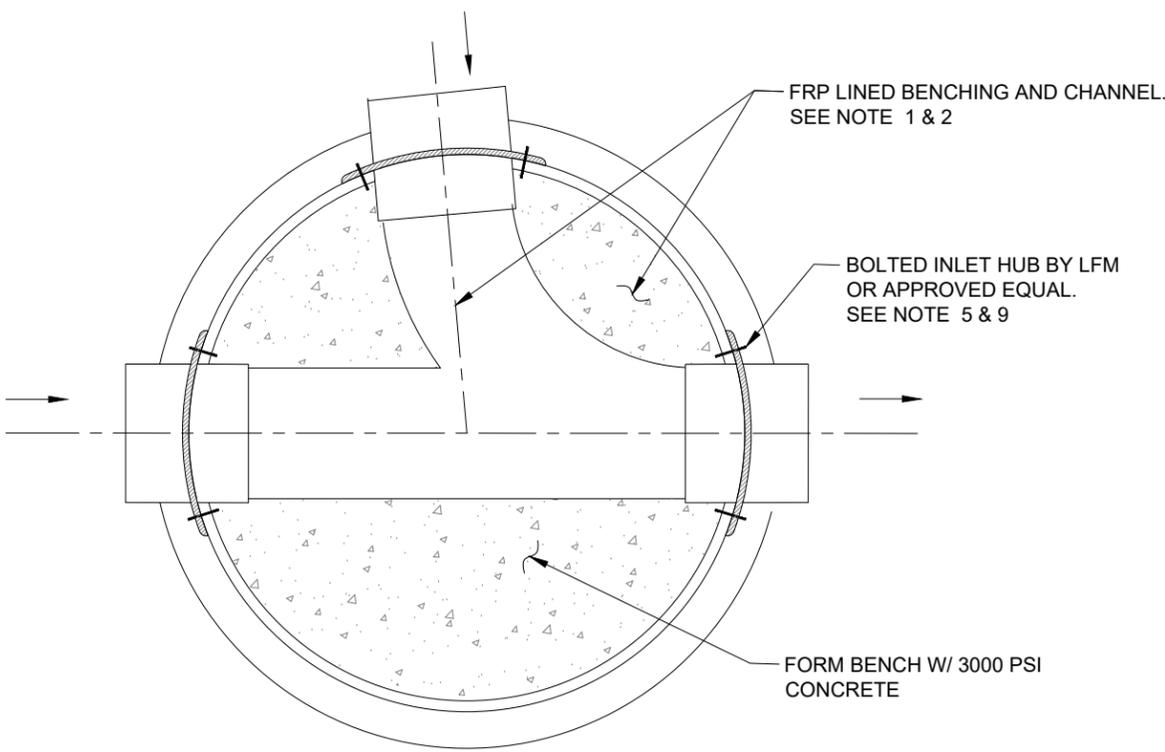


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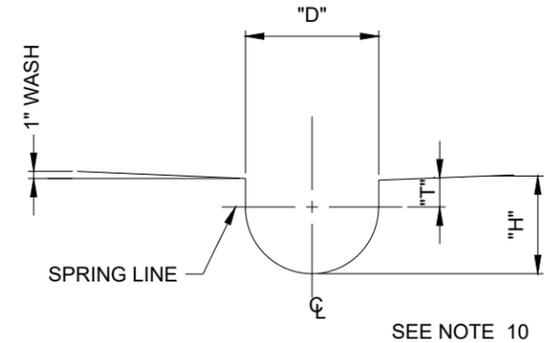
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SECTIONAL VIEW
N.T.S.



BASE PLAN VIEW
N.T.S.



DETAIL "H"
NTS

TABLE 1

"D"	"T"	"H"
INSIDE DIA. PIPE (IN.)	VERTICAL TANGENT (IN.)	HEIGHT OF WATER TABLE (IN.)
8	2 1/2	6 1/2
10	3	8
12	3 1/2	9 1/2
15	4 1/2	12
18	5 1/2	14 1/2
21	6 1/2	17
24	7 1/2	19 1/2
27	8	21 1/2
30	9	24
33	10	26 1/2
36	11	29

NOTES:

1. THE INVERT CHANNELS AND BENCH SHALL BE FORMED USING 3,000 PSI CONCRETE AND COMPLETELY ENCLOSED IN A MINIMUM 1/4-INCH LAYER OF FIBERGLASS CHOP.
2. THE FIBERGLASS ENCLOSURE FOR THE INVERT AND BENCH AREA SHALL BE PROVIDED AND INSTALLED IN THE MANHOLE BY THE MANUFACTURER.
3. UNLESS SHOWN OTHERWISE ON THE DRAWINGS AND APPROVED BY FCPW, SAND, CRUSHED STONE, OR PEA GRAVEL SHALL BE USED FOR BACKFILL AROUND THE MANHOLE FOR A MINIMUM DISTANCE OF ONE FOOT FROM THE OUTSIDE SURFACE AND EXTENDING FROM THE BOTTOM OF THE EXCAVATION TO THE TOP OF THE REDUCER SECTION.
4. BACKFILL SHALL BE PLACED IN LAYERS OF NOT MORE THAN 12 LOOSE MEASURE INCHES AND COMPACTED TO 95% STANDARD PROCTOR DENSITY, UNLESS OTHERWISE APPROVED BY FCPW.
5. ALTERNATE MEANS OF PIPE PENETRATIONS AND CONNECTIONS MAY BE USED AS RECOMMENDED BY MANHOLE MANUFACTURER AND APPROVED BY FCPW.
6. PROVIDE AN ANCHOR CONNECTION RING TO BE USED IN CONJUNCTION WITH A CONCRETE BALLAST
7. CONCRETE BALLAST REQUIREMENTS SHALL BE AS DETERMINED BY DESIGN ENGINEER AND AS APPROVED BY FCPW.
8. RISER RINGS SHALL HAVE A CLEAR OPENING EQUAL OR LESS THAN THE OPENING OF THE FRAME.
9. APPLY A 3/8-INCH BEAD OF BUTYL RUBBER SEALANT BETWEEN THE FOLLOWING CONTACTING SURFACES:
 - MANHOLE FRAME AND RISER RINGS
 - RISER RINGS
 - RISER RING AND FIBERGLASS CONE SECTION LIP
 - INLET HUB AND MANHOLE EXTERIOR
10. "H" & "T" DIMENSIONS APPLY ONLY AT THE UPSTREAM, INSIDE EDGE OF MANHOLE.
11. MANHOLE SHALL BE DESIGNED FOR LOAD RATING OF 40,000 LBS.

FULTON COUNTY STANDARD DETAIL 114C

STANDARD SEWER MANHOLE
FIBERGLASS MANHOLES

DATE	REVISIONS	DATE	REVISIONS

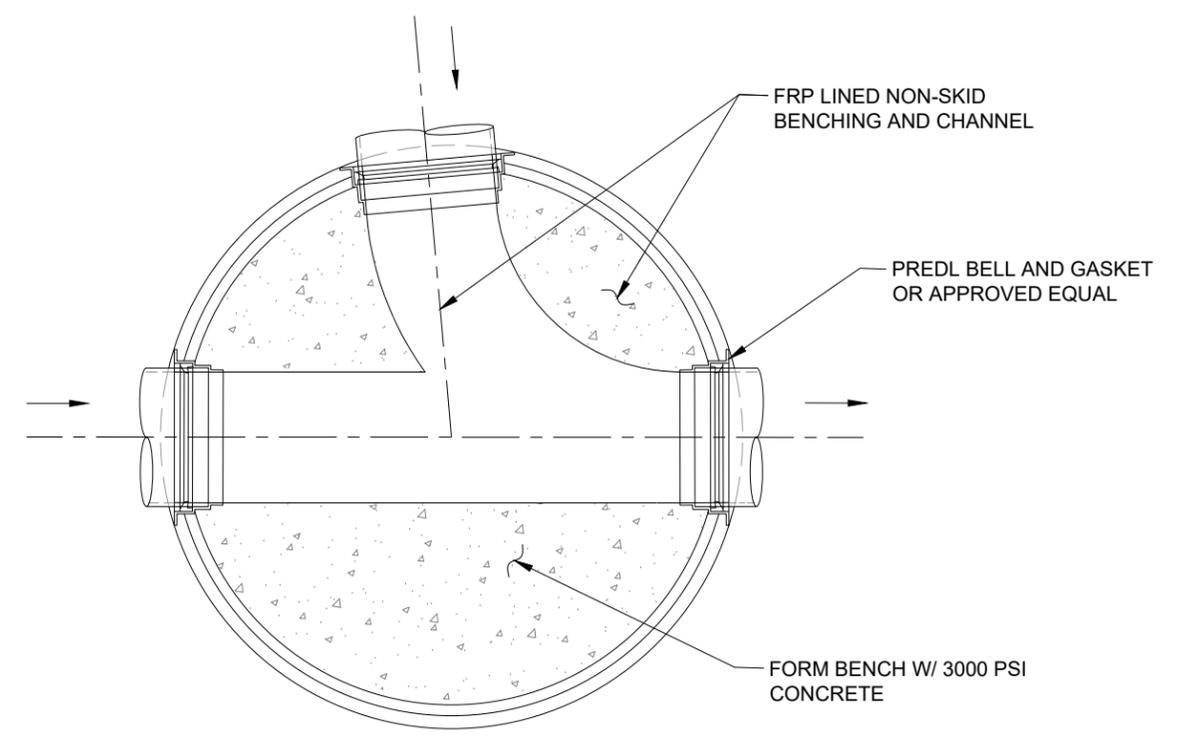
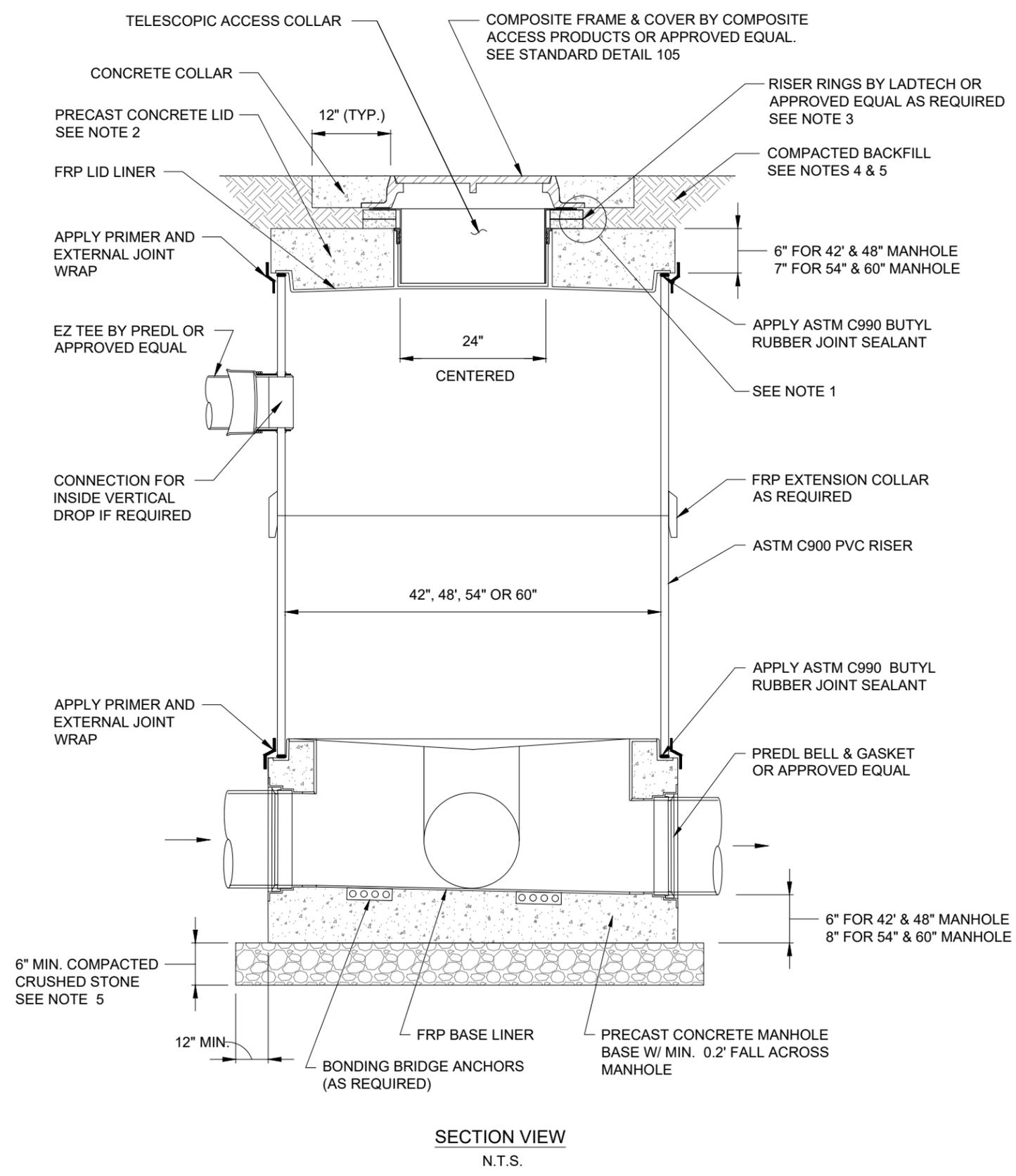
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BASE PLAN VIEW
N.T.S.

NOTES:

1. APPLY A 3/8-INCH BEAD OF BUTYL RUBBER SEALANT BETWEEN THE FOLLOWING CONTACTING SURFACE:
 - PRECAST CONCRETE LID AND RISER RINGS
 - RISER RINGS
 - RISER RINGS AND TELESCOPIC ACCESS COLLAR
 - TELESCOPIC ACCESS COLLAR AND MANHOLE FRAME
2. PRECAST CONCRETE LID SHALL BE H20 RATED PER ASTM C478.
3. RISER RINGS SHALL HAVE A CLEAR OPENING EQUAL OR LESS THAN THE OPENING OF THE FRAME.
4. UNLESS SHOWN OTHERWISE ON DRAWINGS AND APPROVED BY FCPW, SAND, CRUSHED STONE OR PEA GRAVEL SHALL BE USED FOR BACKFILL AROUND THE MANHOLE FOR A MINIMUM DISTANCE OF ONE FOOT FROM THE OUTSIDE SURFACE AND EXTENDING FROM THE BOTTOM OF THE EXCAVATION TO THE TOP OF THE PRECAST CONCRETE LID.
5. BACKFILL SHALL BE PLACE IN LAYERS OF NOT MORE THAN 12 LOOSE MEASURE INCHES AND COMPACTED TO 95% STANDARD PROCTOR DENSITY, UNLESS APPROVED BY FCPW.

SECTION VIEW
N.T.S.

FULTON COUNTY STANDARD DETAIL 114D
STANDARD SEWER MANHOLE
PVC/PRECAST CONCRETE HYBRID MANHOLES

DATE	REVISIONS	DATE	REVISIONS

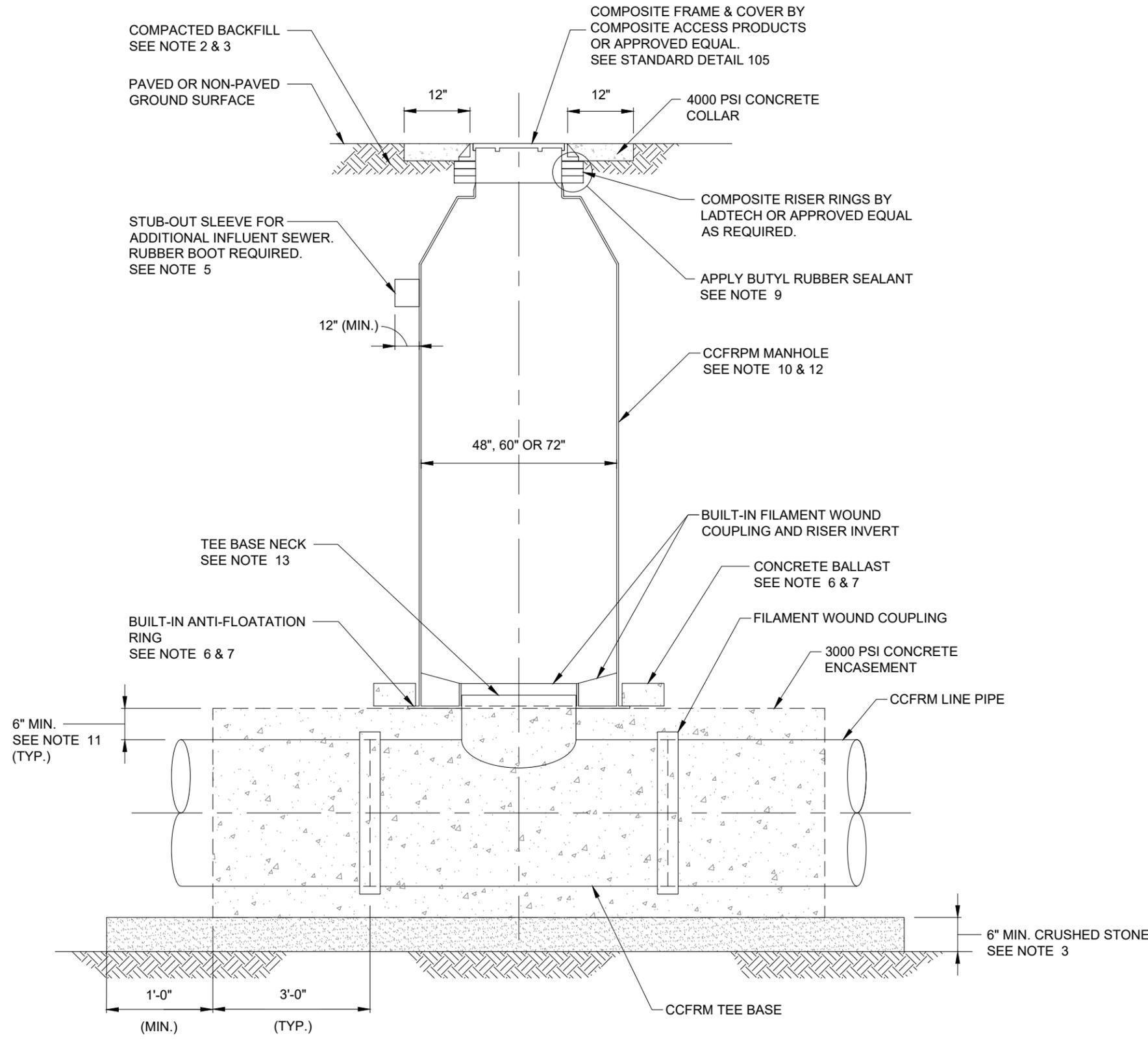
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SECTIONAL VIEW
N.T.S.

NOTES:

1. THE MANHOLE BOTTOM SHALL HAVE AN INVERT AND FWC COUPLING BUILT-IN TO ACCEPT THE TEE BASE NECK AND FORM A WATER TIGHT CONNECTION.
2. UNLESS SHOWN OTHERWISE ON THE DRAWINGS AND APPROVED BY FCPW, SAND, CRUSHED STONE, OR PEA GRAVEL SHALL BE USED FOR BACKFILL AROUND THE MANHOLE FOR A MINIMUM DISTANCE OF ONE FOOT FROM THE OUTSIDE SURFACE AND EXTENDING FROM THE BOTTOM OF THE EXCAVATION TO THE TOP OF THE REDUCER SECTION.
3. BACKFILL SHALL BE PLACED IN LAYERS OF NOT MORE THAN 12 LOOSE MEASURE INCHES AND COMPACTED TO 95% STANDARD PROCTOR DENSITY, UNLESS OTHERWISE APPROVED BY FCPW.
4. PROVIDE VERTICAL INSIDE DROP INLET AS REQUIRED. SEE STANDARD DETAIL 115.
5. ALTERNATE MEANS OF PIPE PENETRATIONS AND CONNECTIONS MAY BE USED AS RECOMMENDED BY MANHOLE MANUFACTURER AND APPROVED BY FCPW.
6. PROVIDE AN ANTI-FLOATATION RING TO BE USED IN CONJUNCTION WITH A CONCRETE BALLAST.
7. CONCRETE BALLAST REQUIREMENTS SHALL BE AS DETERMINED BY DESIGN ENGINEER AND AS APPROVED BY FCPW.
8. RISER RINGS SHALL HAVE A CLEAR OPENING EQUAL OR LESS THAN THE OPENING OF THE FRAME.
9. APPLY A 3/8-INCH BEAD OF BUTYL RUBBER SEALANT BETWEEN THE FOLLOWING CONTACTING SURFACES:
 - MANHOLE FRAME AND RISER RINGS
 - RISER RINGS
 - RISER RING AND FIBERGLASS CONE SECTION LIP
10. CENTRIFUGAL CAST FIBERGLASS REINFORCED POLYMER MORTAR (CCFRPM) MANHOLE SHALL HAVE A LIVE LOAD RATING OF 40,000 LBS.
11. ACTUAL DIMENSION OF CONCRETE ENCASEMENT MAY VARY AND SHALL BE DETERMINED BY DESIGN ENGINEER.
12. CCFRPM TEE BASE MANHOLE SHALL BE BY HOBAS OR APPROVED EQUAL.
13. SIZE OF TEE NECK SHALL BE AS DETERMINED BY DESIGN ENGINEER.

FULTON COUNTY STANDARD DETAIL 114E

STANDARD SEWER MANHOLE
TEE BASE MANHOLES

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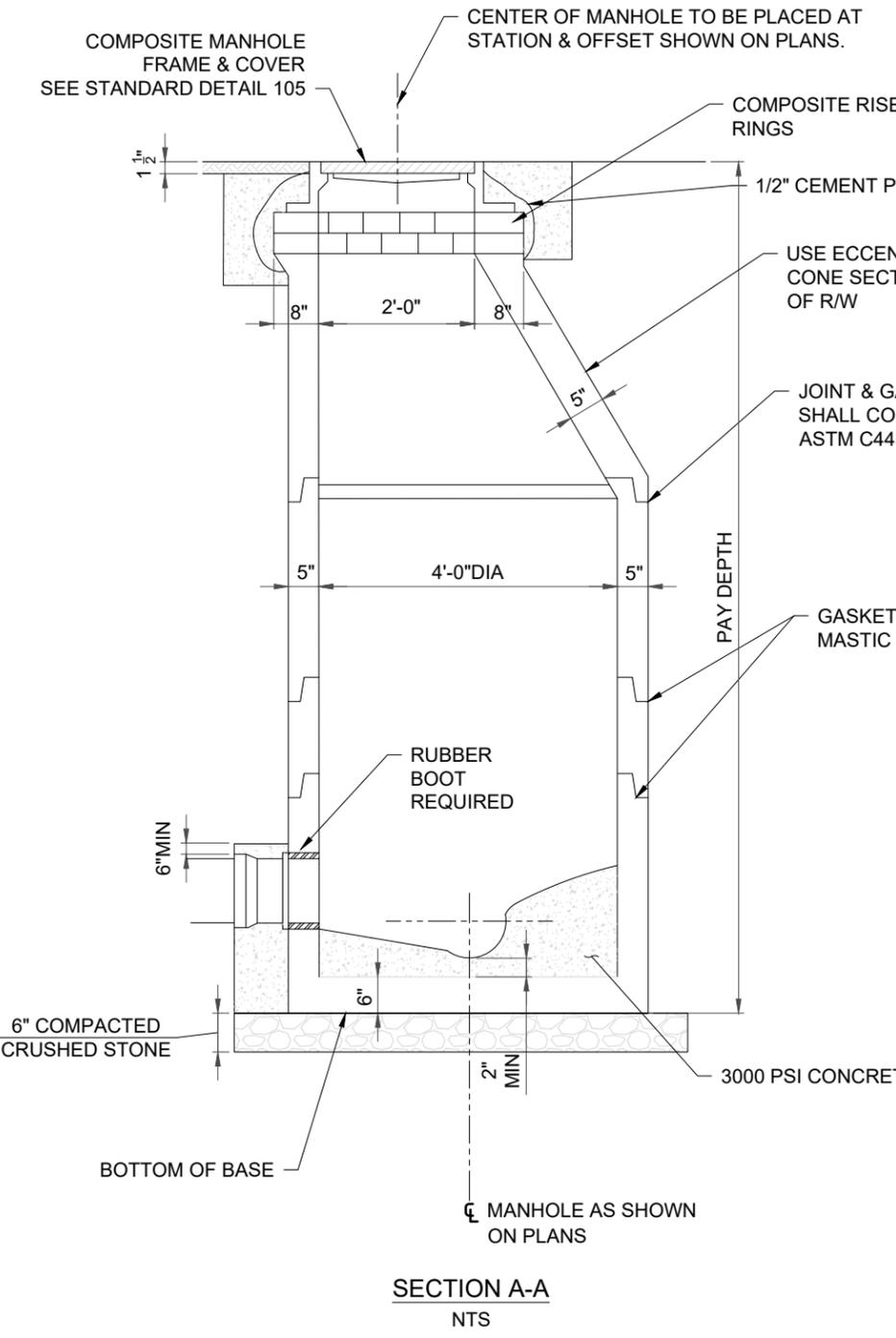
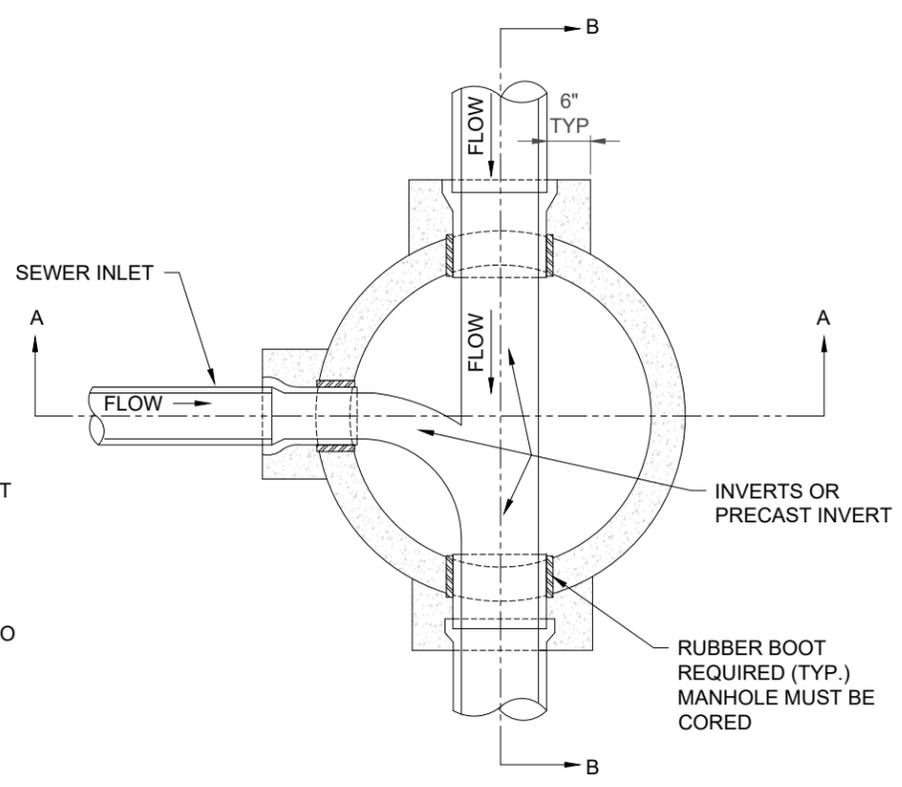
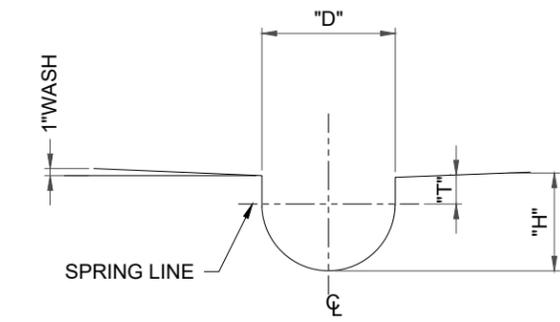


TABLE 1

"D" INSIDE DIA. PIPE (IN.)	"T" VERTICAL TANGENT (IN.)	"H" HEIGHT OF WATER TABLE (IN.)
8	2 1/2	6 1/2
10	3	8
12	3 1/2	9 1/2
15	4 1/2	12
18	5 1/2	14 1/2
21	6 1/2	17
24	7 1/2	19 1/2
27	8	21 1/2
30	9	24
33	10	26 1/2
36	11	29



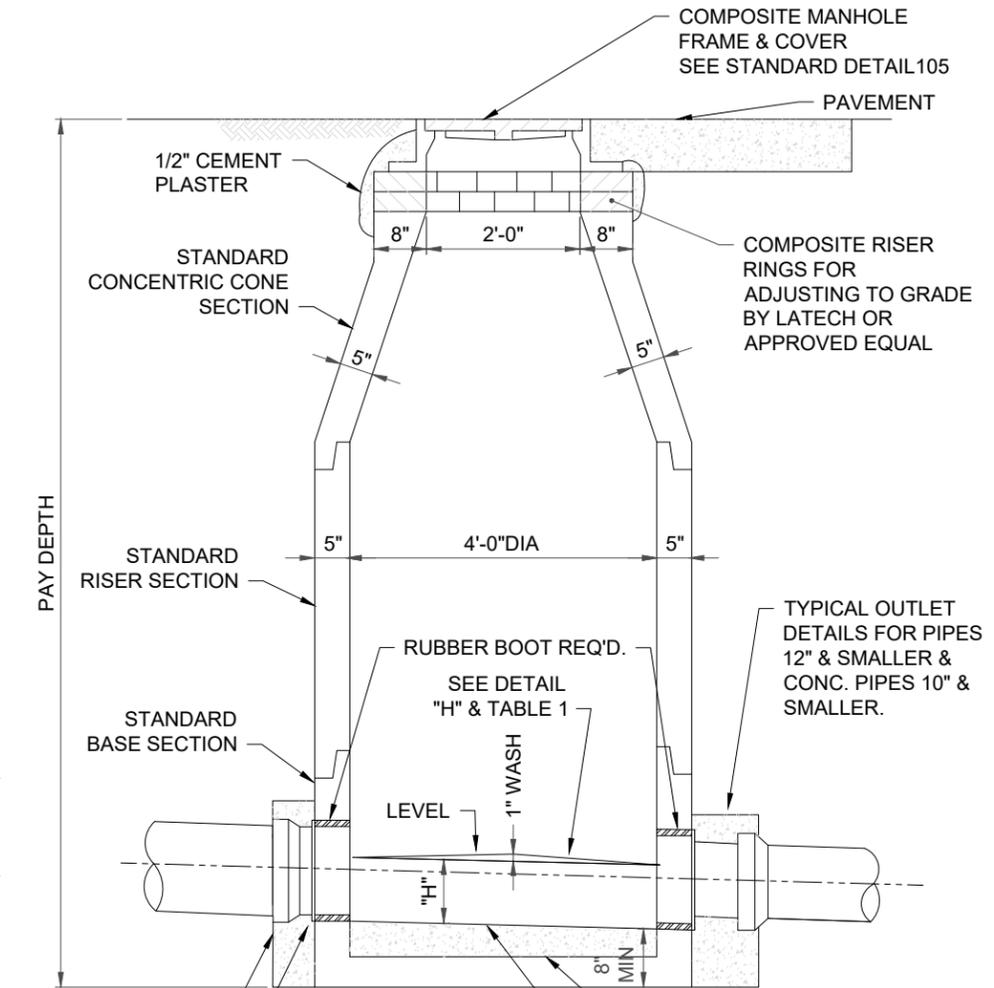
**SECTION PLAN
STANDARD PRECAST
4'-0" DIAMETER MANHOLE
NTS**



**DETAIL "H"
NOTE: "H" & "T" DIMENSIONS APPLY
ONLY AT THE UPSTREAM, INSIDE
EDGE OF M.H.
NTS**

NOTE: FOR PVC PIPE USE FLEXIBLE BODY CONNECTOR AS RECOMMENDED BY MANUFACTURER FOR MANHOLE CONNECTION.
TYPICAL INLET DETAILS FOR PIPES 12" AND SMALLER

- NOTES:**
1. FOR OUTFALL LINES, MANHOLE TOP TO BE 18" TO 24" ABOVE SURROUNDING GROUND SURFACE.
 2. ALL MANHOLES WITHIN TEN FEET OF PUBLIC RIGHT OF WAY SHALL BE TOPPED WITH A HEAVY DUTY TRAFFIC BEARING RING & COVER MOUNTED FLUSH TO EXISTING GRADE. LOADING SPECS. MAY BE REQUIRED FROM THE MANUFACTURER (RING & COVER).**
 3. OPENING FOR PIPE IN M.H. TO BE NO GREATER THAN 4" GREATER IN DIAMETER THAN PIPE.
 4. ECCENTRIC CONES MAY ONLY BE USED OUTSIDE OF ROW.
 5. POLYMER REINFORCED CONCRETE MANHOLES MAY BE USED AS AN ALTERNATIVE. VERIFY USE WITH FULTON COUNTY ENGINEER.



**SECTION B-B
NTS**

**FULTON COUNTY STANDARD DETAIL 114F
STANDARD SEWER MANHOLES
PRECAST MANHOLES**

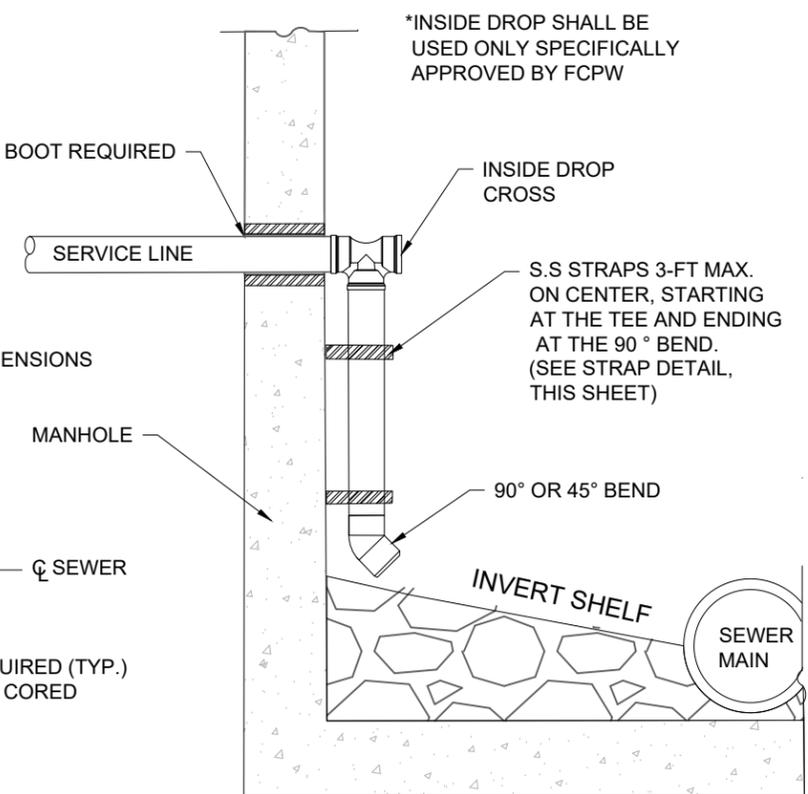
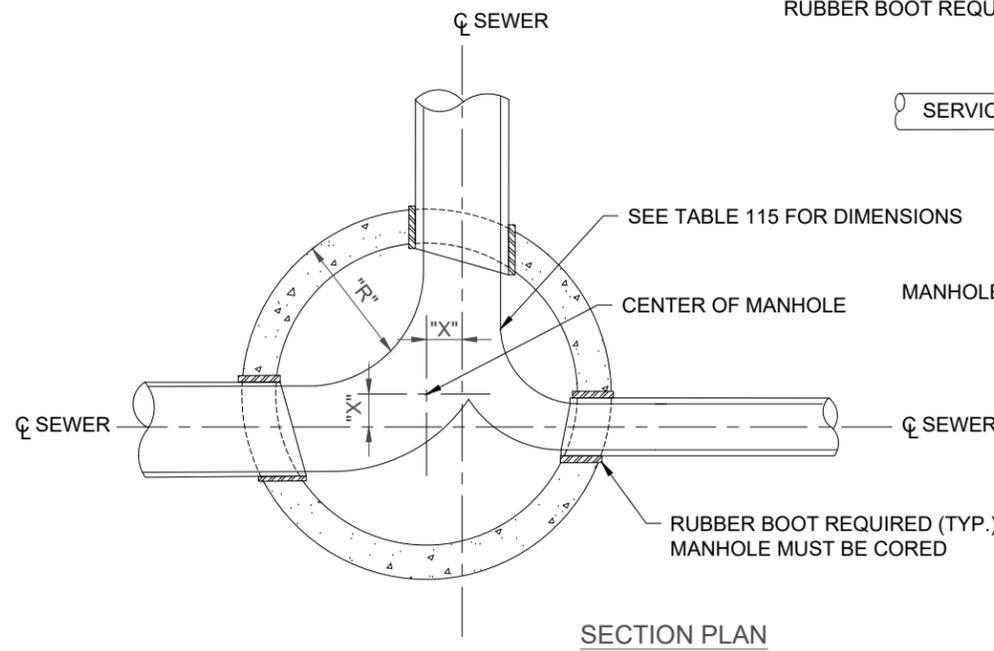
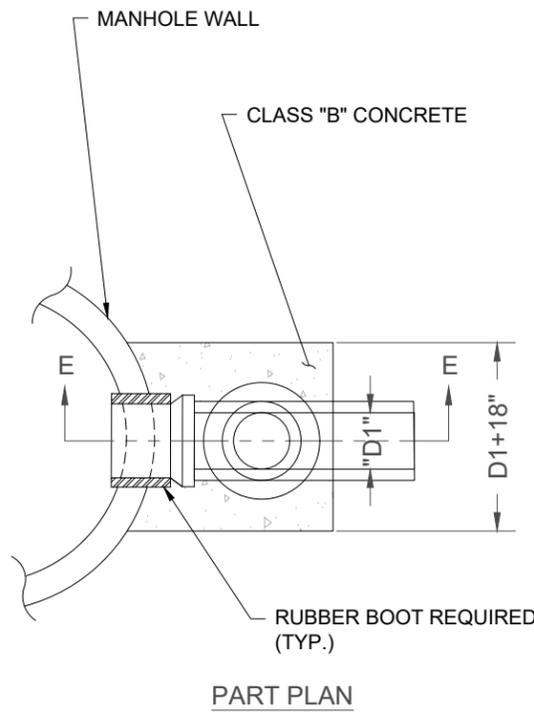
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114F



- NOTES:**
1. IN WET CONDITIONS, ATTACH PIPE INSIDE OF MANHOLE. CONTACT PUBLIC WORKS.
 2. CONTRACTOR MAY PROPOSE VERTICAL DROP ALTERNATIVES IN THE FIELD WITH THE INSPECTOR. INSPECTOR WILL APPROVE ALTERNATIVES.
 3. PIPING CONFIGURATION TO BE USED ON ALL DROPS OVER 20 INCHES.
 4. DROPS TO BE CONSTRUCTED OF SCHEDULE 80 PVC PIPE.
 5. SERVICE LINE MAY NOT ENTER MANHOLE THROUGH CONE SECTION OR ANY JOINT.
 6. THIS DETAIL SHALL NOT USED FOR FORCE MAINS
 7. ALL MANHOLE CONNECTIONS SHALL BE CORED
 8. USE 1/2 INCH DIAMETER EXPANSION TYPE STAINLESS STEEL CINCH BOLTS WITH STAINLESS STEEL WASHER AND NUTS TO ATTACH STRAPS.
 9. MINIMUM OF TWO STRAPS REQUIRED.
 10. MINIMUM SIZE OF MANHOLE W/ INSIDE DROP SHALL BE 60-INCH.
 11. CONCRETE BALLAST REQUIREMENT SHALL BE AS DETERMINED BY DESIGN ENGINEER.

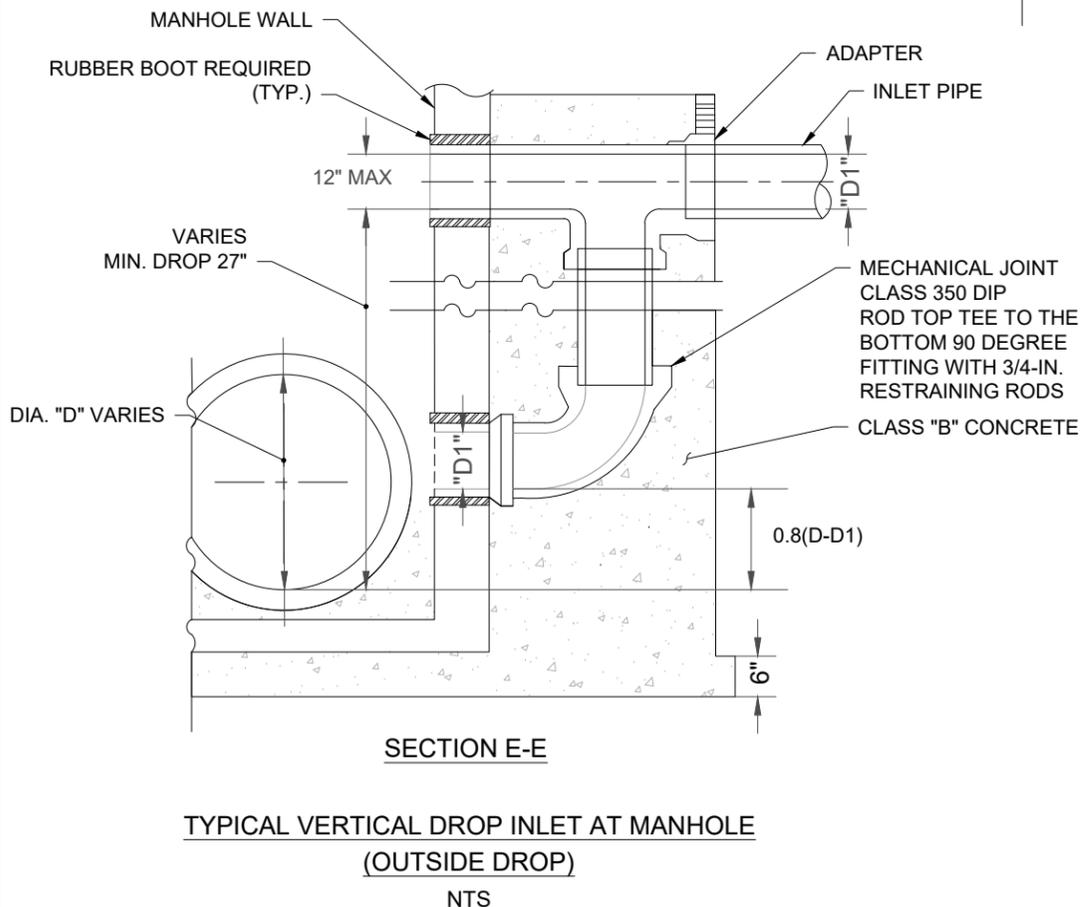
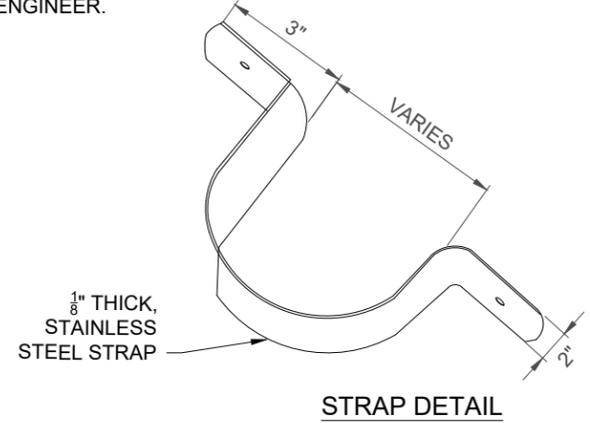
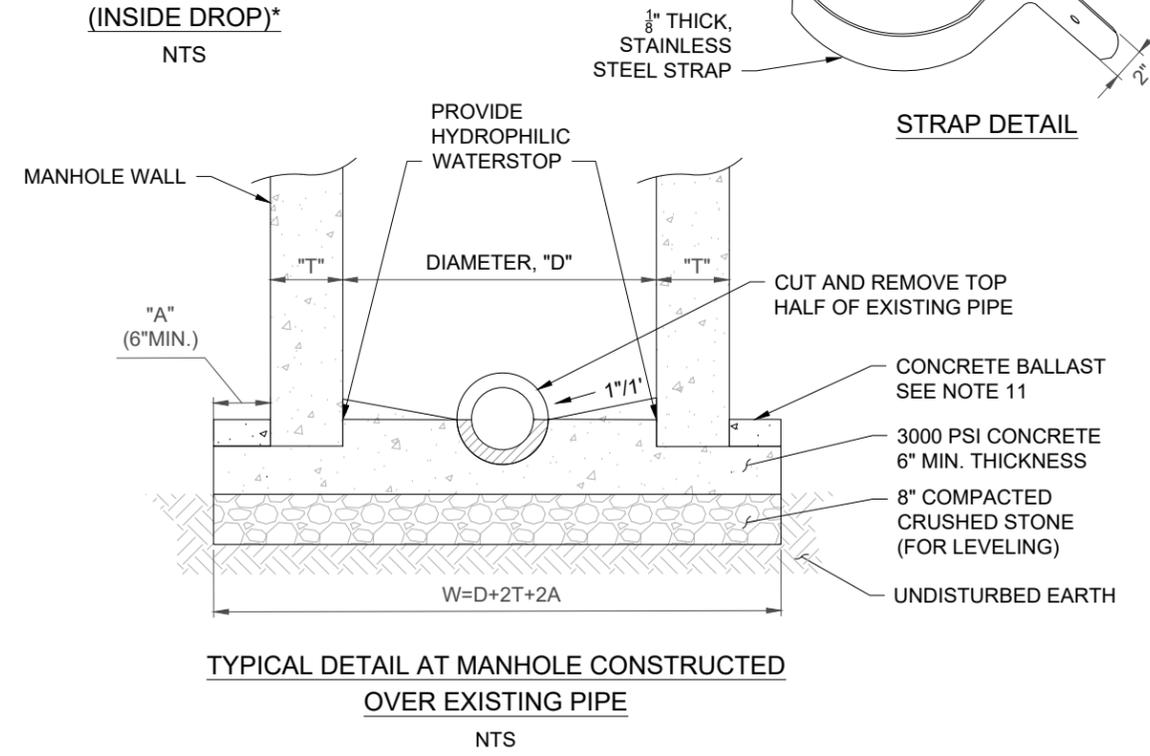


TABLE 115
STANDARD PRECAST MANHOLES
SCHEDULE OF GOVERNING DIMENSIONS

PIPE SIZE (IN.)	ANGLE (DEGREES)	M.H. DIA. (FT.)	"R" (IN.)	"X" (IN.)
8 thru 12	0 to 90	4	12	0
15	0 to 60	4	15	0
15	60 to 90	4	15	6
18	0 to 60	4	18	0
18	60 to 90	4	16	8
21	0 to 60	4	21	0
21	60 to 90	5	21	9
24	0 to 60	4	24	0
24	60 to 90	5	18	9
27	0 to 60	5	27	0
27	60 to 90	6	24	12
30	0 to 60	5	30	0
30	60 to 90	6	21	8
36	0 to 90	PRE-BED PIPE, M.H. BASE & ELBOW UNIT		



FULTON COUNTY STANDARD DETAIL 115
STANDARD SEWER MANHOLES
INSIDE AND OUTSIDE VERTICAL DROPS

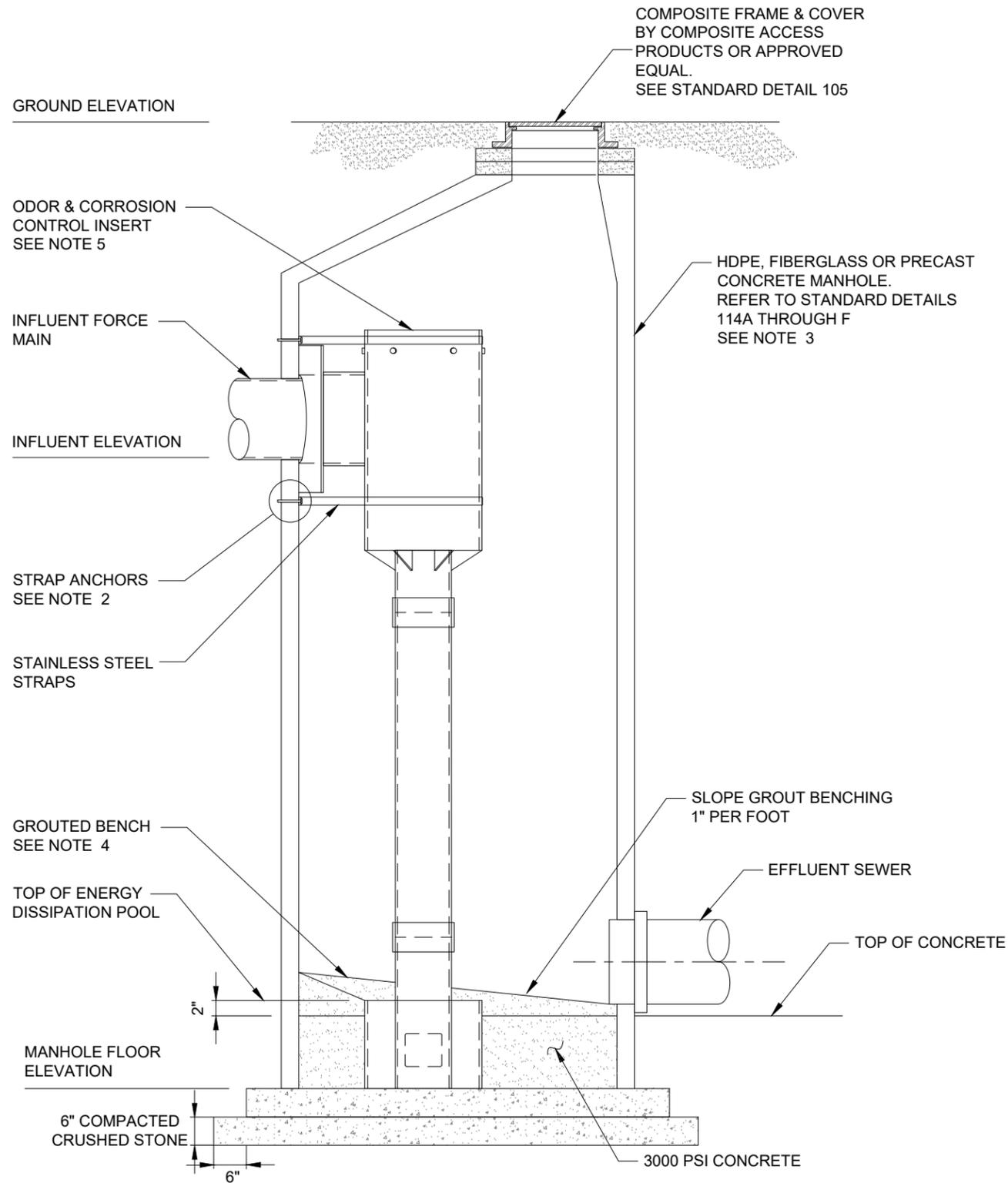
DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
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DATE: 01-21-2026

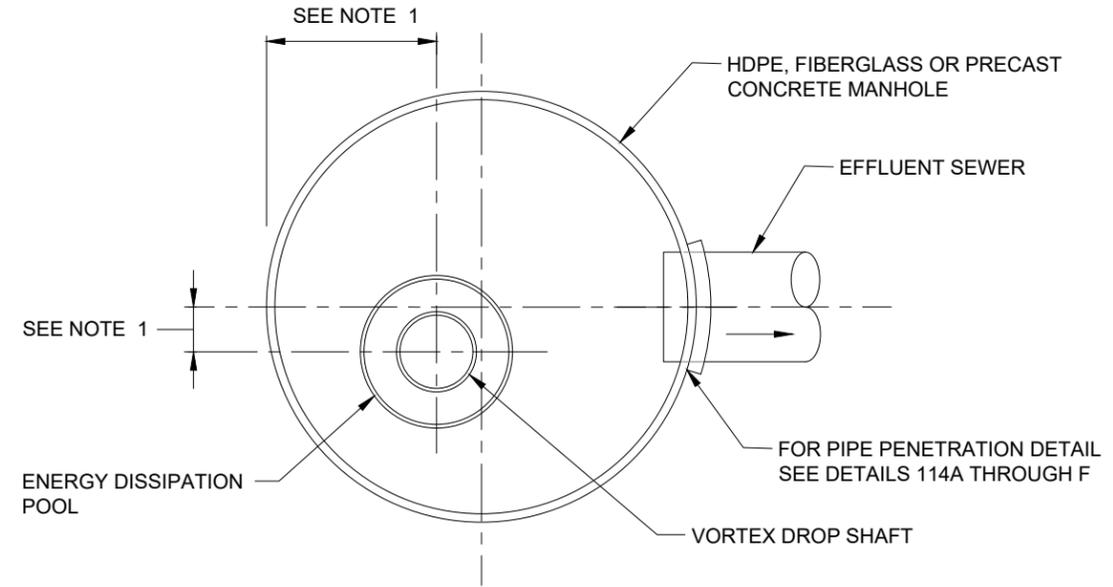


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DRAWING NO.
115



SECTIONAL VIEW
N.T.S.



BASE PLAN VIEW
N.T.S.

NOTES:

1. DIMENSION TO BE DETERMINED BY EQUIPMENT FURNISHED.
2. VORTEX MANUFACTURER TO COORDINATE WITH MANHOLE MANUFACTURER & FURNISH ANCHORS COMPATIBLE WITH MANHOLE MATERIALS.
3. HDPE OR FIBERGLASS MANHOLES ARE PREFERRED. PRECAST CONCRETE MANHOLES MAY BE USED ONLY WITH FCPW APPROVAL AND SHALL BE PROVIDED WITH EPOXY COATING.
4. GROUTED BENCH SURFACES SHALL BE COATED WITH EPOXY.
5. ODOR AND CORROSION CONTROL INSERT SHALL BE VORTEX FLOW BY IPEX OR APPROVED EQUAL.
6. MANHOLE SHALL BE PROVIDED WITH AN ODOR REMOVAL SYSTEM DESIGNED BY THE ENGINEER.
7. ODOR REMOVAL SYSTEM SHALL BE PURAFIL OR EQUAL AS APPROVED BY FCPW.
8. MINIMUM MANHOLE DIAMETER SHALL BE 60-INCHES.

FULTON COUNTY STANDARD DETAIL 116
FORCE MAIN DISCHARGE MANHOLE DETAILS

DATE	REVISIONS	DATE	REVISIONS

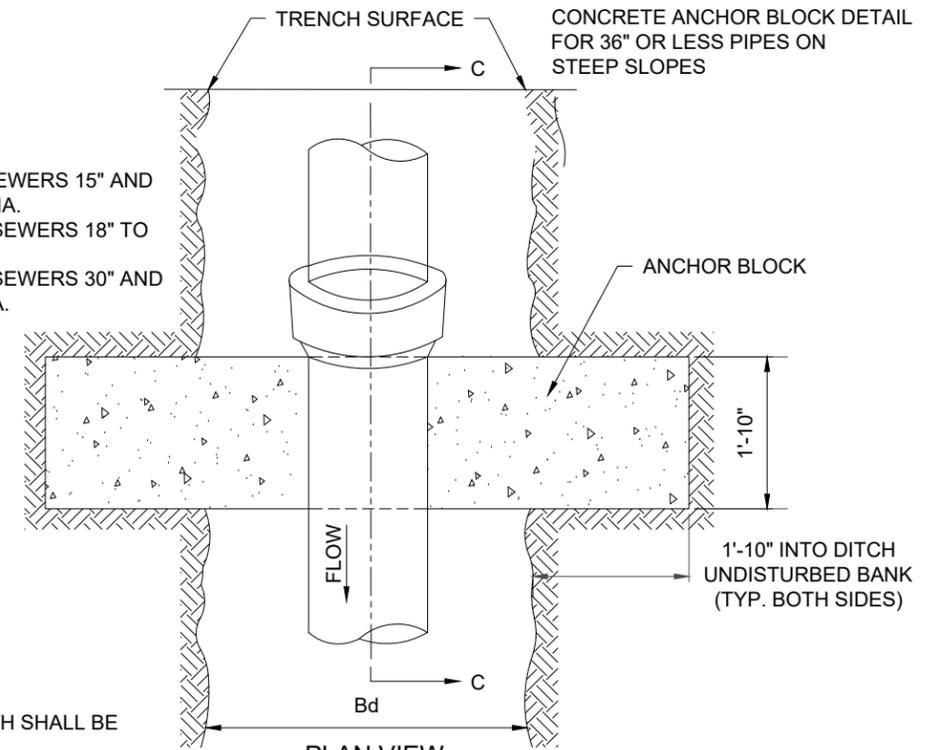
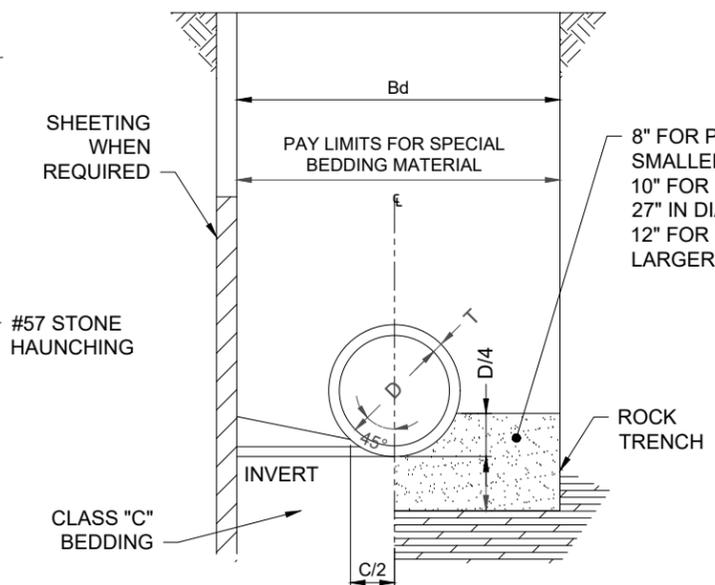
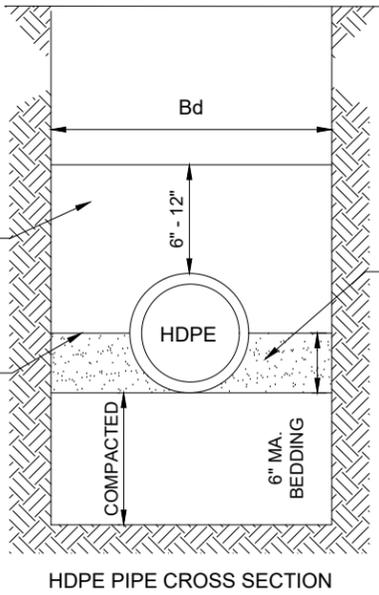
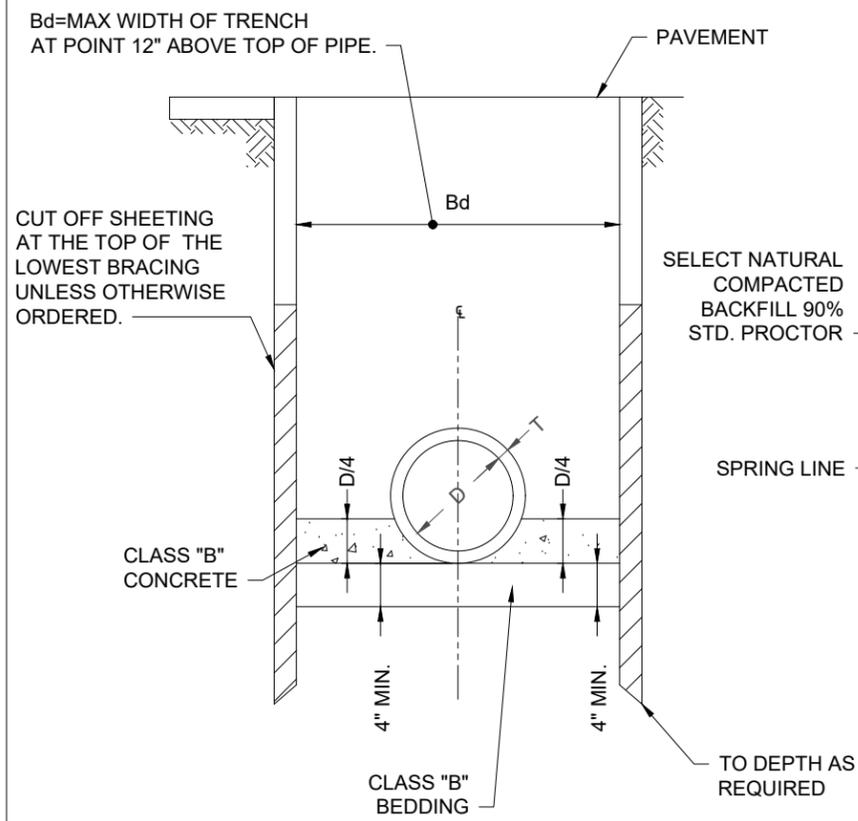
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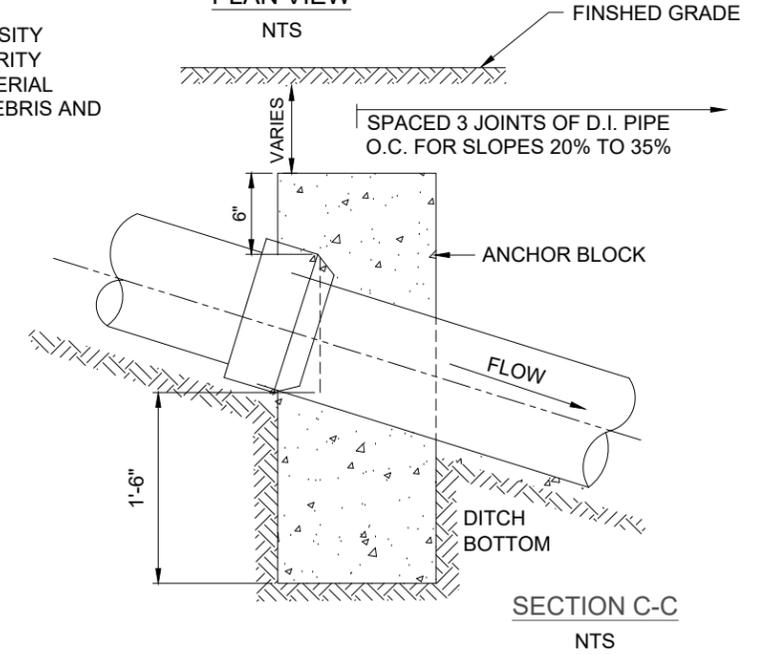
116



- NOTE:
1. ALL O.S.H.A REGULATIONS MUST BE COMPLIED WITH.
 2. AT DEPTHS EQUAL OR GREATER THAN 5'-0", THE WIDTH SHALL BE BASED ON APPROVED TRENCH BOX WIDTH.
 3. **COMPACTION NOTE:** THE BACKFILL OF ALL TRENCHES TO BE COMPACTED TO A DENSITY OF 90% STANDARD PROCTOR OR AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION OVER PERMIT ISSUANCE. BACKFILL MATERIAL SHALL BE FREE FROM ROOTS, STUMPS, OR OTHER FOREIGN DEBRIS AND SHALL BE PLACED AT OR NEAR OPTIMUM MOISTURE.
 4. REFER TO DETAIL 103 FOR ADDITIONAL INFORMATION.

TYPICAL TRENCH DETAILS
NTS

PLAN VIEW
NTS



SECTION C-C
NTS

A.S.T.M. A746						A.S.T.M. C76-				A.S.T.M. C14-				A.S.T.M. - D2321 DR 17				
DUCTILE IRON GRAVITY SEWER PIPE						REINF. CONC. PIPE				EX. STR. CONC. SEWER PIPE				HDPE PIPE				
PSI	D. IN	T. IN	Bd FT	C FT	*CRADLE	T. IN	Bd FT	C FT	*CRADLE	T. IN	Bd FT	C FT	*CRADLE	T. IN	Bd FT	C FT	*CRADLE	
350	6	0.38	2.33	0.41	0.034									0.390	2.33			
350	8	0.42	2.67	0.53	0.36					7 / 8	2.15	0.6	0.041	0.507	2.67			
350	10	0.48	2.83	0.65	0.043					1	2.33	0.7	0.047	0.632	2.83			
350	12	0.52	3.00	0.78	0.049	2	2.83			1-3/8	2.83	0.87	0.055	0.750	3.00			
250	15					2-1/4	3.13	0.95	0.06	1-5/8	3.13	1.08	0.066					
250	18	0.73	3.67	1.15	0.072	2-1/2	3.42	1.15	0.073	2	3.42	1.3	0.086	1.059	3.67			
200	21					2-3/4	3.71	1.35	0.088	2-1/4	3.71	1.5	0.105					
200	24	0.85	4.17	1.52	0.18	3	4.00	1.55	0.109	2-5/8	4.00	1.72	0.128	1.412	4.17			
150	27					3-1/4	4.29	1.75	0.131									
150	30	0.99	4.83	1.88	0.149	3-1/2	4.58	1.95	0.153					1.765	4.83			
150	33					3-3/4	4.88	2.2	0.184									
150	36	1.19	5.33	2.27	0.198	4	5.17	2.4	0.215									
150	42	1.32	6.00	2.63	0.253	4-1/2	5.88	2.6	0.288									
150	48	1.44	6.50	3	0.314	5	6.33	3	0.36									
150	54					5-1/2	6.92	3.5	0.44									
150	60					6	7.50	3.75	0.54									
100	66					6-1/2	8.08	4.25	0.63									
100	72					7	8.67	4.65	0.74									

NOTE: PAYMENT QUANTITY IN CU. YDS./LIN/FT. OF TRENCH FOR CLASS "B" CONC. IN CASE OF CLASS "A" BEDDING & FOR CRUSHED STONE BEDDING MATERIAL IN CASE OF CLASS "B" BEDDING, ADJUST QUANTITY OF CRADLE MATERIAL BASED ON Bd WIDTH IF DEPTH OF CRADLE EXCEEDS D/4.

FULTON COUNTY STANDARD DETAIL 117
PIPE SEWER DATA
DUCTILE IRON, CONCRETE AND HDPE
PIPE INSTALLATION

DATE	REVISIONS	DATE	REVISIONS

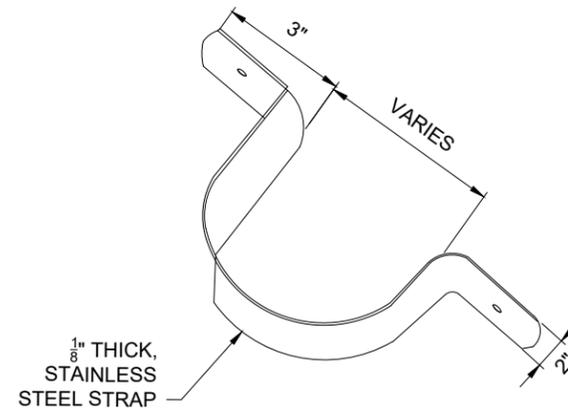
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DRAWING NO.
117

TABLE 118-1			
ALLOWABLE SPANS FOR STEEL CASING PIPE			
CARRIER PIPE, RJ DIP DIAMETER (IN)	CASING PIPE, STEEL DIAMETER (IN)	MIN. CASING PIPE WALL THICKNESS (IN)	ALLOWABLE SPAN (FT)
6	14	0.3750	40
8	16	0.3750	45
10	18	0.3750	50
12	20	0.3750	50
14	24	0.3750	55
16	26	0.3750	55
18	30	0.3750	60
20	32	0.3750	60
24	36	0.4375	65
30	42	0.4375	65
36	48	0.5000	65
40	56	0.5000	65

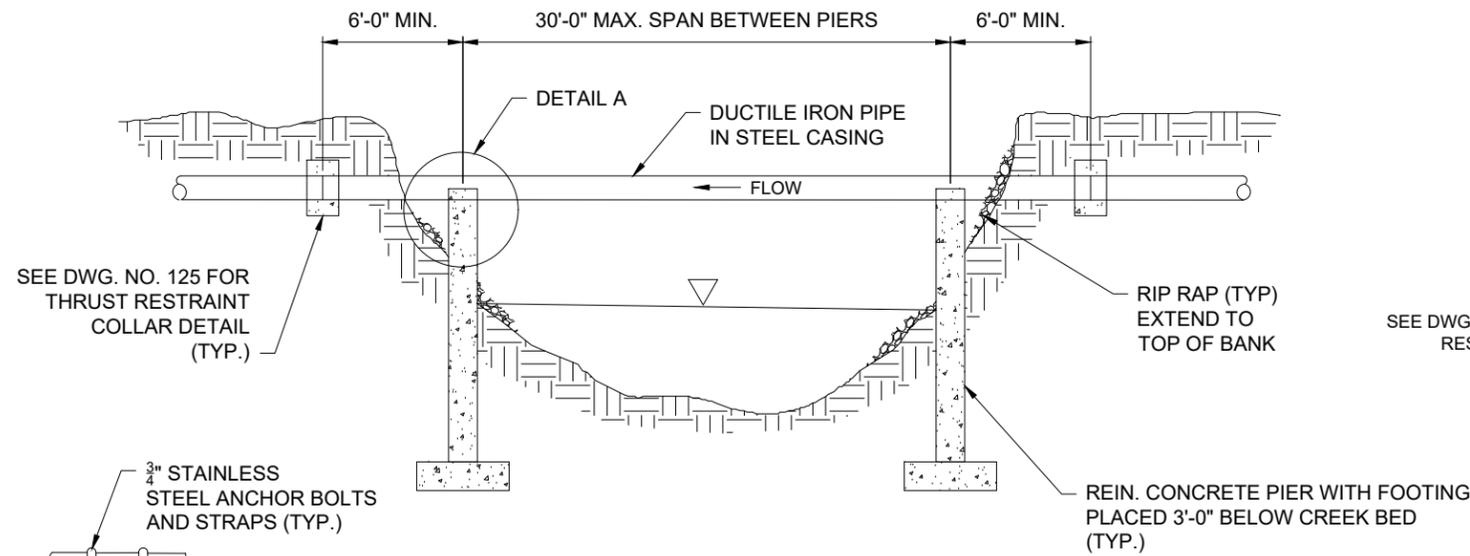


STRAP DETAIL

NTS

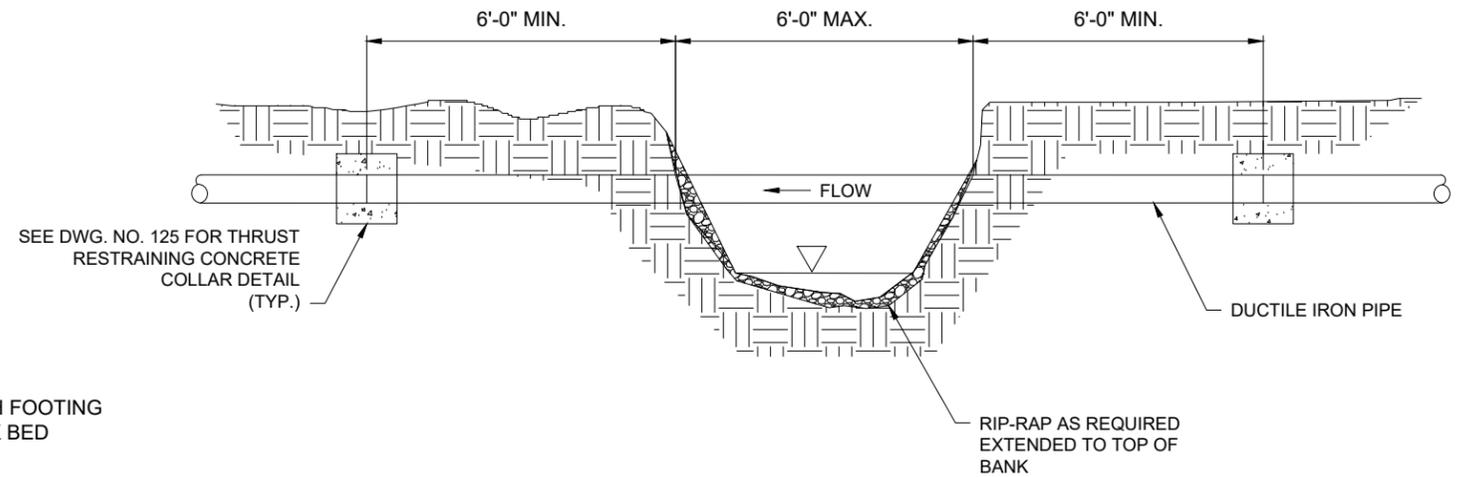
NOTES:

1. STEEL PIPE COATED INSIDE AND COATED AND WRAPPED OUTSIDE MAY BE USED.
2. WHERE SEWER PIPES RUN PARALLEL WITH CREEKS OR STREAMS, HDPE PIPE SHALL BE USED. RIP RAP IS REQUIRED WITHIN 10 FEET OF SEWER EASEMENT. ALL SEWER OUTFALLS MUST BE LEFT ACCESSIBLE TO COUNTY SERVICE TRUCKS. GATES (12 FEET) WILL BE REQUIRED ON FENCES ACROSS SEWER LINES.
3. CONCRETE STRENGTH TEST MAY BE REQUIRED FOR ALL POURED IN PLACE CONCRETE.
4. REFER TO FULTON COUNTY STANDARD 401 FOR RIP RAP SPECIFICATIONS.
5. WHENEVER POSSIBLE, NO PIERS SHALL BE PLACED IN NORMAL FLOW OF CREEK.
6. ALL AERIAL CROSSINGS MUST BE APPROVED IN WRITING BY FULTON COUNTY.
7. ANY SPAN EXCEEDING 30 FEET REQUIRES SUBMITTAL OF DESIGN CALCULATIONS.
8. ALL AERIAL CROSSINGS MUST AT MINIMUM HAVE STEEL CASING PIPE.
9. ALL PIER FOUNDATIONS SHALL CONFORM TO THE RECOMMENDATIONS OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE GEORGIA.
10. AERIAL CROSSING SHALL BE APPROVED BY LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO ACCEPTANCE BY FULTON COUNTY.
11. NO PLASTIC PIPE ALLOWED FOR AERIAL CROSSINGS.
12. STEEL CASING PIPE SHALL BE SPIRAL WELDED OR SMOOTH WALL SEEM LESS WITH A MINIMUM YIELD STRENGTH OF 36,000 PSI
13. EXPANSION JOINT BETWEEN PIERS SHALL BE INSTALLED IF REQUIRED BY DESIGN ENGINEER.
14. REFER TO DETAIL 100 FOR ADDITIONAL INFORMATION.



TYPICAL AERIAL STEEL OR D.I.P. PIPE CROSSING

NTS



TYPICAL NON-PIER AERIAL D.I.P. SEWER LINE

NTS

FULTON COUNTY STANDARD DETAIL 118

SEWER PIPE DITCH CROSSING

DATE	REVISIONS	DATE	REVISIONS

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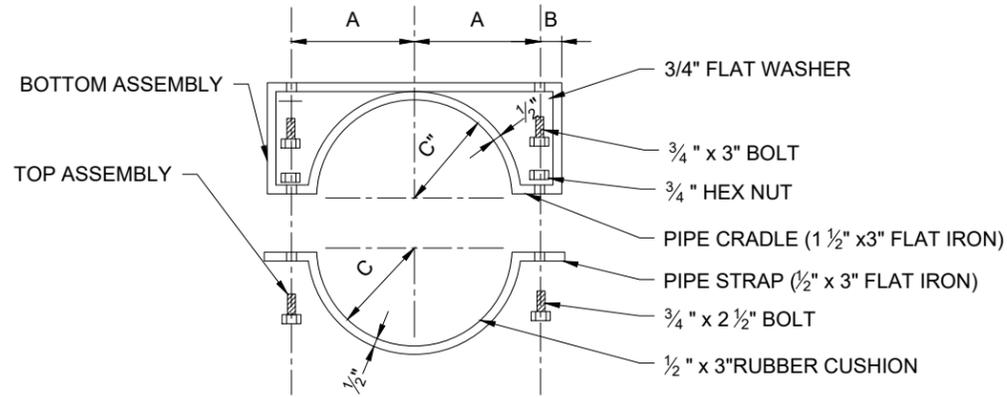
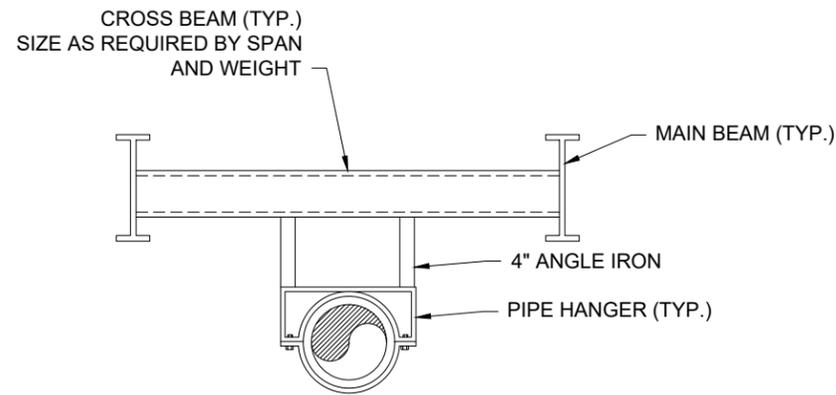
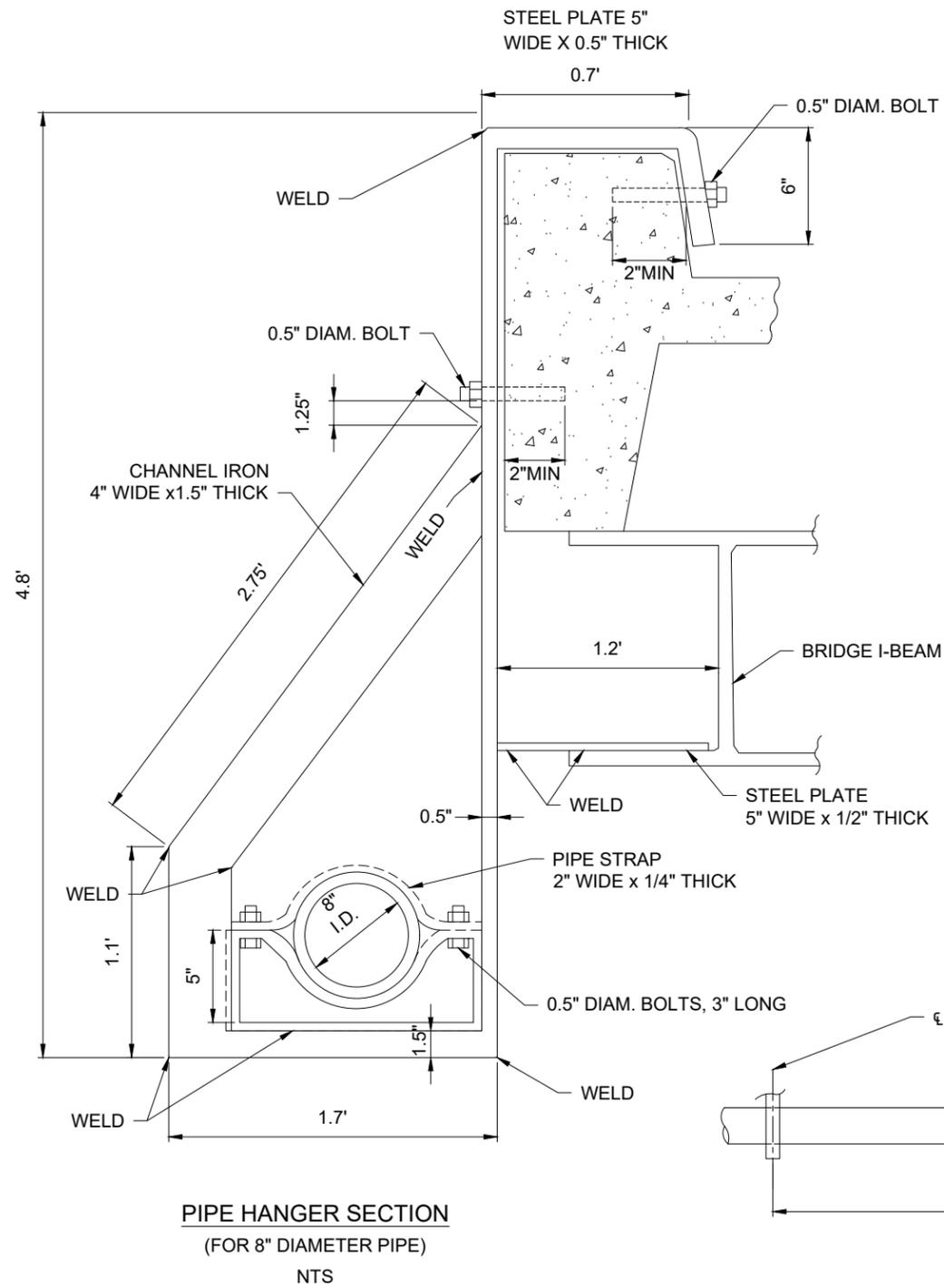


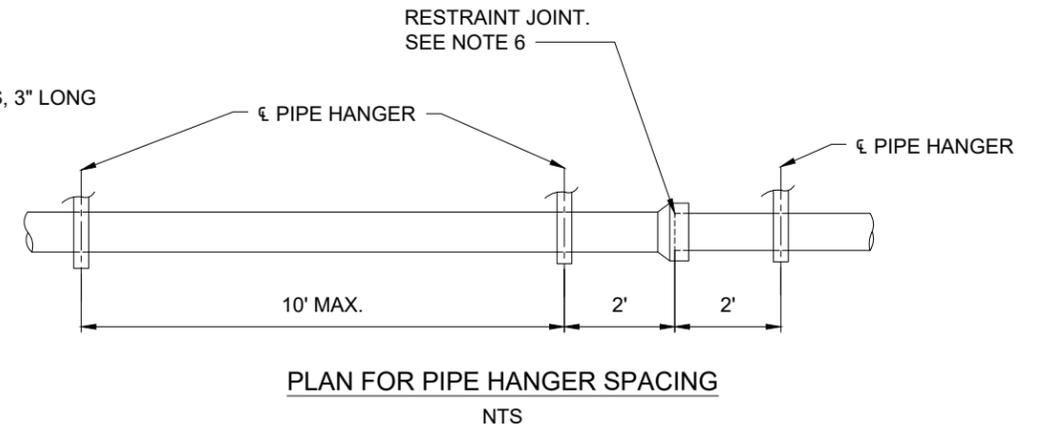
TABLE 119-1 PIPE HANGER DIMENSIONS			
PIPE DIA. (IN.)	"A" (IN.)	"B" (IN.)	"C" (RADIUS) (IN.)
8	6.53	2.00	4.53
12	8.60	2.00	6.60
16	10.70	2.00	6.70



TYPICAL WATER MAIN
SUPPORT DETAILS
NTS



PIPE HANGER SECTION
(FOR 8" DIAMETER PIPE)
NTS



PLAN FOR PIPE HANGER SPACING
NTS

NOTES:

1. PROVIDE TWO SUPPORTS PER JOINT, TWO FEET FROM JOINT
2. ENGINEER SHALL DESIGN SUPPORT DETAILS FOR WATER MAINS LARGER THAN 8" IN DIAMETER
3. STEEL SHALL BE A-36
4. WELDING SHALL BE E-70XX. ALL WELDS SHALL BE $\frac{3}{16}$ " FILET WELDS. UNLESS NOTED OTHERWISE. ALL BUTT WELDS SHALL BE $\frac{1}{4}$ " FULL PENETRATION WELDS.
5. ALTERNATE DESIGN MAY BE SUBMITTED BY THE ENGINEER FOR APPROVAL BY FULTON COUNTY PUBLIC WORKS DEPARTMENT
6. RESTRAINT JOINTS EQUAL TO AMERICAN "FLEX-RING" OR "LOK-RING", U.S. PIPE "TR FLEX" OR "HP LOK", CLOW "SUPER-LOCK", OR GRIFFIN "SNAP-LOK", SHALL BE USED ON ALL SUSPENDED PIPES PLUS TWO JOINTS OR 30' MINIMUM ON EITHER SIDE.
7. PRIMER SHALL BE NO. 1-8 RED PRIMER AND CONFIRM TO GEORGIA D.O.T. ARTICLE 870.2.01 PRIMER SHALL BE APPLIED TO A MINIMUM THICKNESS OF 4 MILS.
8. PAINT SHALL BE NO. 3-B GREEN, BRUSHING, ROLLER, AIRLESS TYPE AND CONFORM TO GEORGIA D.O.T. ARTICLE 870.2.01 PAINT SHALL BE APPLIED TO A MINIMUM THICKNESS OF 10 MILS.
9. TWO BOTTOM ASSEMBLIES USED TOGETHER MAY BE REQUIRED FOR SOME INSTALLATIONS.

FULTON COUNTY STANDARD DETAIL 119
TYPICAL PIPE HANGER AND SUPPORT DETAILS

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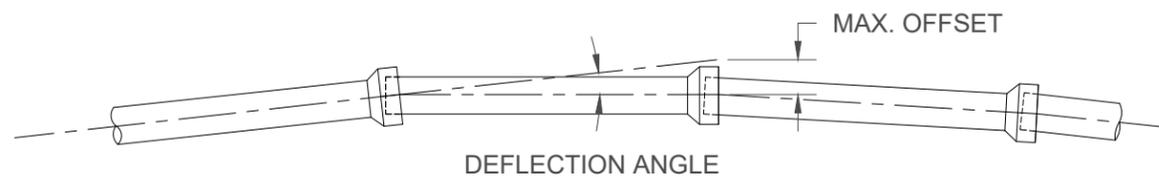
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TABLE 120-1 MAXIMUM PERMISSIBLE JOINT DEFLECTIONS				
NOMINAL PIPE SIZE (IN.)	PUSH-ON JOINT (18 FT. JOINTS)		MECHANICAL JOINT (18 FT. JOINTS)	
	DEFLECTION ANGLE (DEG.)	MAX. OFFSET (IN.)	DEFLECTION ANGLE (DEG.)	MAX. OFFSET (IN.)
3	5	19	8	31
4	5	19	8	31
6	5	19	7	27
8	5	19	5	20
10	5	19	5	20
12	5	19	5	20
14	3	11	3.5	13.5
16	3	11	3.5	13.5
20	3	11	3	11
24	3	11	2	9
30	3	11	---	---
36	3	11	---	---
42	3	11	---	---
48	3	---	---	---

TABLE 120-2 MECHANICAL JOINT BOLT USAGE CHART						
NOMINAL PIPE DIAMETER (IN.)	BELL DEPTH (IN.)	BOLTS				APPROX. JOINT ACCESSORY WEIGHT (LBS.)
		DIAMETER (IN.)	LENGTH (IN.)	NUMBER PER JOINT	REC. TORQUE (FT.-LBS.)	
4	2.5	0.75	3.5	4	75-90	10
6	2.5	0.75	3.5	6	75-90	16
8	2.5	0.75	4	6	75-90	25
10	2.5	0.75	4	8	75-90	30
12	2.5	0.75	4	8	75-90	40
14	3.5	0.75	4.5	10	75-90	45
16	3.5	0.75	4.5	12	75-90	55
18	3.5	0.75	4.5	12	75-90	65
20	3.5	0.75	4.5	14	75-90	85
24	3.5	0.75	5	16	75-90	105
30	4	1	6	20	100-120	220
36	4	1	6	24	100-120	285
42	4	1.25	6.5	28	120-150	400
48	4	1.25	6.5	32	120-150	475

NOTES:

1. WHEN A PIPE IS DEFLECTED, THE PIPE SHALL FIRST BE ASSEMBLED IN A STRAIGHT LINE, BOTH HORIZONTALLY AND VERTICALLY BEFORE THE DEFLECTION IS MADE.
2. FOR MECHANICAL JOINT PIPE, THE BOLTS SHALL BE PARTIALLY TIGHTENED BEFORE THE LENGTH OF PIPE IS DEFLECTED. ANY SUPPORTED PIPE, SHALL BE SO SUPPORTED THAT THERE IS ZERO DEFLECTION EXCEPT WHERE EITHER A HORIZONTAL OR VERTICAL CURVE ON A BRIDGE OR OTHER STRUCTURE IS INVOLVED.
3. THRUST RESTRAINTS MAY BE REQUIRED ON THE DEFLECTED JOINTS.



DUCTILE IRON PIPE DEFLECTION DETAIL
NTS

120-S.dwg December 10, 2025 10:18am

FULTON COUNTY STANDARD DETAIL 120
PIPE JOINT DEFLECTION AND BOLT USAGE

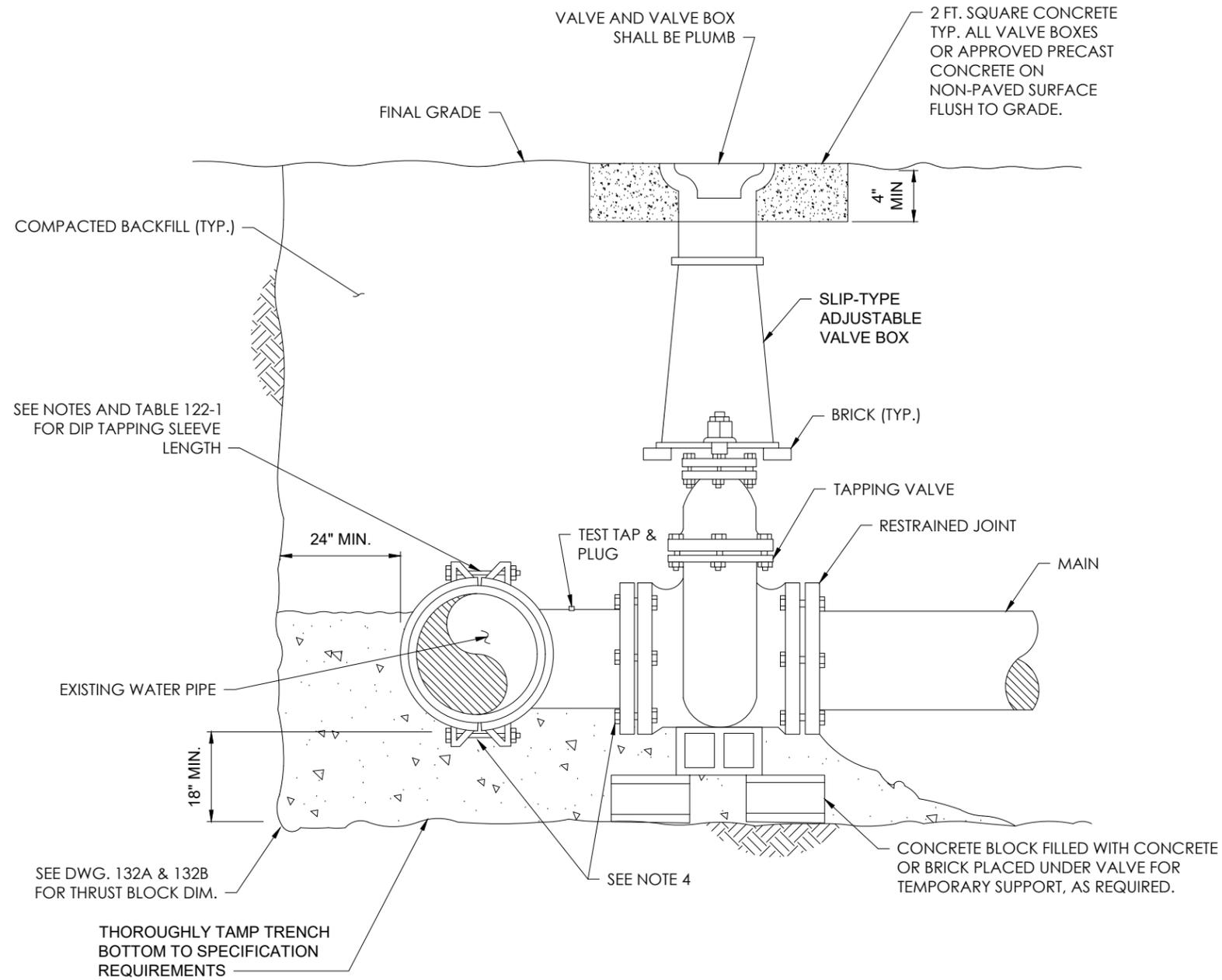
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DRAWING NO.
120



NOTES:

1. ALL TAPPING SLEEVES AND VALVES SHALL BE HYDROSTATICALLY TESTED PRIOR TO TAP.
2. TEMPORARILY SUPPORT TAPPING SLEEVE AND VALVE PRIOR TO HYDROSTATIC TESTING; UPON ACCEPTANCE OF TEST, POUR INDICATED PERMANENT CONCRETE BLOCK AND SUPPORT PAD.
3. MAKE TAP, LINE EXTENSION AND BACKFILL.
4. COVER GLANDS AND BOLTS WITH HEAVY POLYETHYLENE SHEETING TO KEEP CONCRETE FROM BONDING. TYPICAL WHENEVER BOLTS OR GLANDS MAY BE "WRAPPED-UP" IN CONCRETE.
5. COAT TAPPING SLEEVE AND BOLTS WITH AN APPROVED BITUMASTIC COATING BEFORE POURING CONCRETE. TYPICAL FOR ALL STEEL INCLUDING RODS, COUPLINGS, STRAPS, AND OTHER BURIED STEEL. SEE NOTE 4, DETAIL 127 FOR COATING.
6. WORKMEN INSTALLING TAPPING SLEEVE AND VALVE SHALL FOLLOW MANUFACTURER'S INSTALLATION PROCEDURES AND THE REQUIREMENTS OF FULTON COUNTY ENGINEER'S OFFICE.

MAIN & TAP (IN. NOMINAL)	LENGTH ALONG RUN (IN.)
6x2, 6x3, 6x4, 6x6	18
8x2, 8x3, 8x4, 8x6	19
8x8	21
10x2, 10x3, 10x4, 10x6	19
10x8, 10x10	23
12x2, 12x3, 12x5, 12x6	19
12x8	21
12x10, 12x12	25

FULTON COUNTY STANDARD DETAIL 122

**TAPPING SLEEVE AND VALVE
INSTALLATION DETAILS**

DATE	REVISIONS	DATE	REVISIONS

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 DATE: 01-21-2026

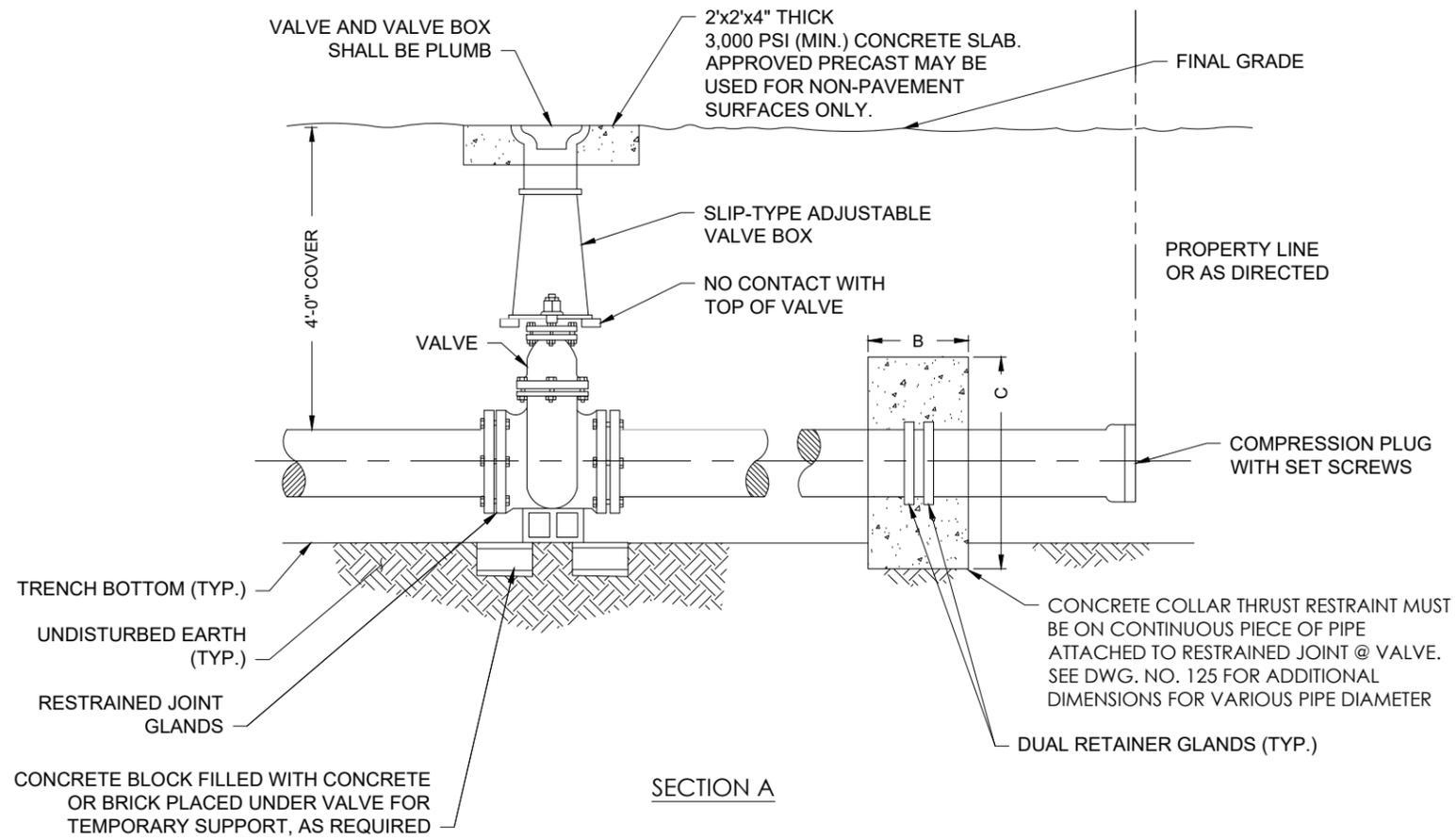


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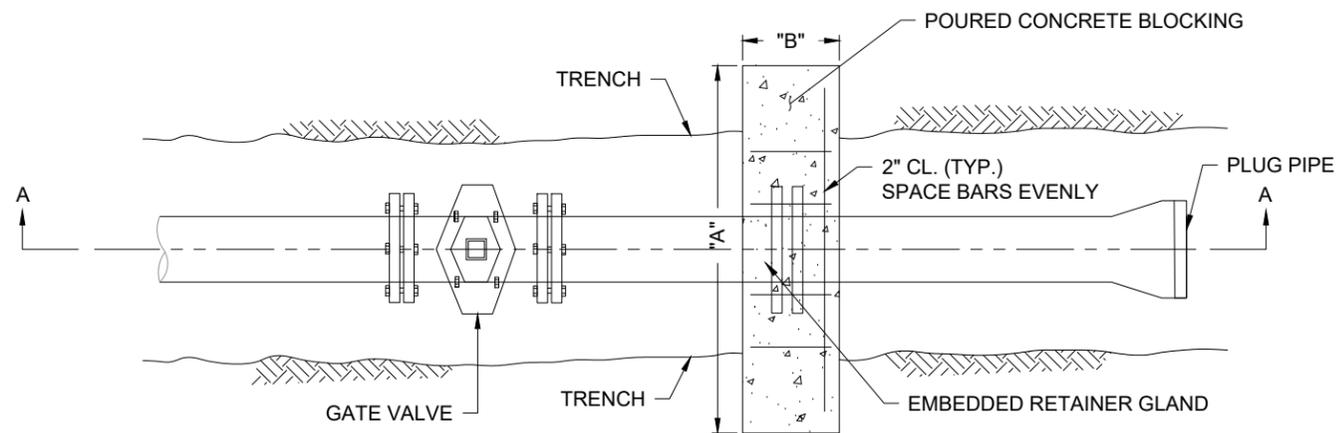
124-S.dwg December 10, 2025 10:18am



NOTES:

1. STUB OUT MUST BE HYDROSTATICALLY TESTED WITH REST OF WATER MAIN.
2. IN LIEU OF SLIP-JOINT AND COMPRESSION PLUG, M.J. JOINTS MAY BE USED WITH M.J. PLUGS.
3. REFER TO DWG. NO. 127 FOR RODDING RESTRAINTS.
4. ANCHOR BLOCKING DETAIL TO BE USED AT THE END OF ANY COUNTY ROAD WHERE WATER LINE MAY BE EXTENDED AT A FUTURE DATE.
5. ALL CONCRETE TO BE 3000 PSI.
6. ALL STEEL TO BE 60,000 PSI.
7. TERMINATION DETAIL FOR LARGER DIAMETER PIPE SHALL BE DETERMINED FOR EACH PROJECT.

PIPE SIZE (IN.)	"A" (IN.)	"B" (IN.)	"C" (IN.)	REQ'D STEEL (EA. WAY)
8	36	18	36	4 - #4
10	48	18	42	4 - #4
12	54	24	54	4 - #4
16	78	24	60	6 - #4



MAIN EXTENSION BLOCKING DETAIL
NTS

FULTON COUNTY STANDARD DETAIL 124
STUB OUT AND EXTENSION DETAILS

DATE	REVISIONS	DATE	REVISIONS

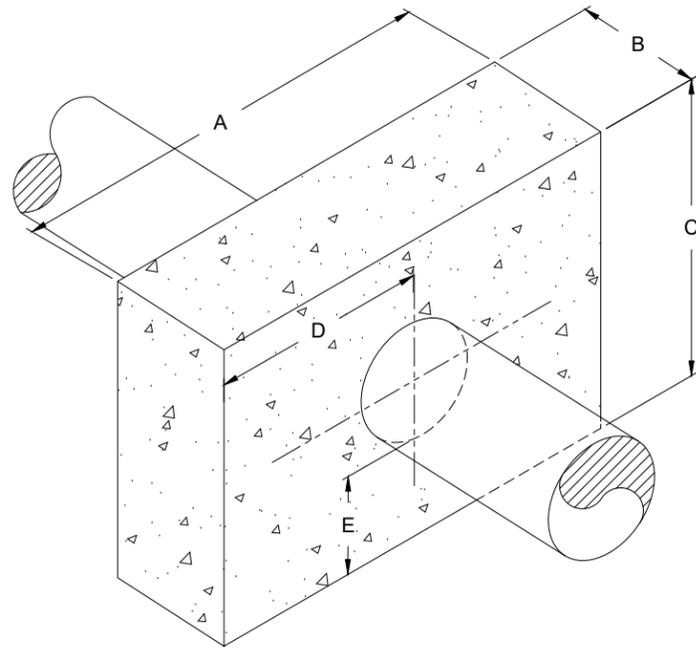
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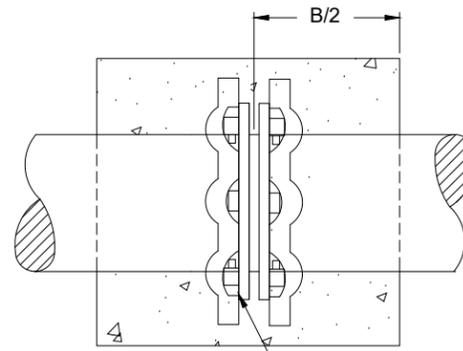
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TYPICAL DETAIL - ISOMETRIC VIEW
NTS



TORQUE SET SCREWS IN ACCORDANCE WITH RETAINER GLAND MANUFACTURER'S RECOMMENDATIONS. INSPECTOR MUST WITNESS INSTALLATION.

TYPICAL DETAIL - ELEVATION
NTS

NOTES:

1. ALL MAINS GREATER THAN 16-IN. NOMINAL DIAMETER SHALL BE INDIVIDUALLY CALCULATED BY THE FULTON COUNTY ENGINEERING DEPARTMENT.
2. SOIL CONDITIONS SHALL BE VERIFIED BY THE ENGINEER BEFORE THRUST RESTRAINT DESIGN IS IMPLEMENTED.
3. CONCRETE SHALL BE POURED AGAINST UNDISTURBED EARTH EXCEPT WHERE FORMWORK IS A MUST. FORMWORK MUST BE REMOVED AFTER CONCRETE IS CURED.
4. PIPE MUST BE DUCTILE IRON.

DESIGN DATA:

1. COLLAR DIMENSIONS ARE BASED ON A SOIL BEARING CAPACITY OF 2,000 POUNDS PER SQUARE FOOT, A RATED TEST PRESSURE OF 250 POUNDS PER SQUARE INCH (PSI), AND 3,000 PSI CLASS "A" CONCRETE.
2. UNDER ADVERSE CONSTRUCTION CONDITIONS, CONCRETE SHALL BE "HIGH EARLY" TYPE.

TABLE 125-1
MINIMUM DIMENSIONS FOR CONCRETE COLLAR ON DUCTILE IRON PIPE
TO BE USED WITH EMBEDDED DUCTILE IRON RETAINER GLAND

PIPE SIZE (IN.)	"A"	"B" (IN.)	"C"	"D"	"E"	VOLUME (CY)	CONCRETE WEIGHT (LBS)	THRUST (LBS)
4	2'-6"	12	2'-6"	1'-3"	1'-0"	0.23	919	4,524
6	2'-9"	12	2'-9"	1'-4 $\frac{1}{2}$ "	1'-1"	0.27	1,095	9,348
8	3'-0"	18	3'-0"	1'-6"	1'-2"	0.47	1,924	16,082
10	4'-0"	18	3'-6"	2'-0"	1'-4"	0.74	2,999	24,192
12	4'-6"	24	4'-6"	2'-3"	1'-9"	1.43	5,790	34,212
14	5'-6"	24	4'-6"	2'-9"	1'-8"	1.74	7,042	45,963
16	6'-6"	24	5'-0"	3'-3"	1'-10"	2.29	9,255	59,447

FULTON COUNTY STANDARD DETAIL 125
THRUST RESTRAINT CONCRETE COLLAR

DATE	REVISIONS	DATE	REVISIONS

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DRAWING NO.

125

126-S.dwg December 10, 2025 10:18am

TABLE 126-1 TIE ROD CHART				
FITTING	PIPE SIZE (IN.)	ROD DIAMETER (IN.)	NUMBER OF RODS	TOTAL THRUST (LBS)
TEES, PLUGS & VALVES	6	$\frac{3}{4}$	$\frac{2}{3}$	5,655
	8	$\frac{3}{4}$	$\frac{2}{3}$	10,055
	10	$\frac{3}{4}$	3	15,710
	12	$\frac{3}{4}$	4	22,620
	14	$\frac{3}{4}$	6	30,800
	16	$\frac{3}{4}$	4	40,215
	20	$\frac{3}{4}$	6	62,835
	24	$\frac{3}{4}$	8	90,480
	30	1	6	141,375
	36	1	6	203,595
11.25° BEND	6	$\frac{3}{4}$	2	1,110
	8	$\frac{3}{4}$	2	1,970
	10	$\frac{3}{4}$	2	3,080
	12	$\frac{3}{4}$	2	4,435
	14	$\frac{3}{4}$	2	6,035
	16	$\frac{3}{4}$	2	7,885
	20	$\frac{3}{4}$	2	12,320
	24	$\frac{3}{4}$	2	17,740
	30	1	2	27,720
36	1	2	39,910	
22.5° BEND	6	$\frac{3}{4}$	2	2,210
	8	$\frac{3}{4}$	2	3,925
	10	$\frac{3}{4}$	2	6,130
	12	$\frac{3}{4}$	2	8,825
	14	$\frac{3}{4}$	2	12,015
	16	$\frac{3}{4}$	2	15,690
	20	$\frac{3}{4}$	2	24,515
	24	$\frac{3}{4}$	2	35,305
	30	1	2	55,160
36	1	2	79,435	
45° BEND	6	$\frac{3}{4}$	$\frac{2}{3}$	4,430
	8	$\frac{3}{4}$	$\frac{2}{3}$	7,700
	10	$\frac{3}{4}$	2	12,025
	12	$\frac{3}{4}$	4	17,312
	14	$\frac{3}{4}$	4	23,565
	16	$\frac{3}{4}$	4	30,780
	20	$\frac{3}{4}$	4	48,090
	24	$\frac{3}{4}$	6	69,250
	30	1	4	108,205
36	1	6	155,810	

TABLE 126-1 TIE ROD CHART				
FITTING	PIPE SIZE (IN.)	ROD DIAMETER (IN.)	NUMBER OF RODS	TOTAL THRUST (LBS)
90° BEND	6	$\frac{3}{4}$	$\frac{2}{3}$	8,000
	8	$\frac{3}{4}$	3	14,220
	10	$\frac{3}{4}$	4	22,214
	12	$\frac{3}{4}$	6	32,000
	14	$\frac{3}{4}$	6	43,540
	16	$\frac{3}{4}$	4	56,870
	20	$\frac{3}{4}$	6	88,860
	24	$\frac{3}{4}$	8	127,960
	30	1	6	199,930
	36	1	6	287,900

NOTES:

- ON PIPE SIZES 6-IN. TO 14-IN., ROD AND NUT WILL HAVE MIN. YIELD STRENGTH OF 50,000 PSI. ON PIPE SIZES 16-IN. TO 24-IN., ROD AND NUT WILL HAVE MIN. YIELD STRENGTH OF 100,000 PSI.
- RODS SHALL HAVE 6 IN. OF THREAD ON EACH END.
- ALL METAL TO BE CLEANED AND COATED WITH AN APPROVED PROTECTIVE COATING FOLLOWING INSTALLATION AND PRIOR TO BACKFILLING. SEE NOTE 4, DWG. NO. 127.

**FULTON COUNTY STANDARD DETAIL 126
THRUST RESTRAINT TIE ROD CHART**

DATE	REVISIONS	DATE	REVISIONS

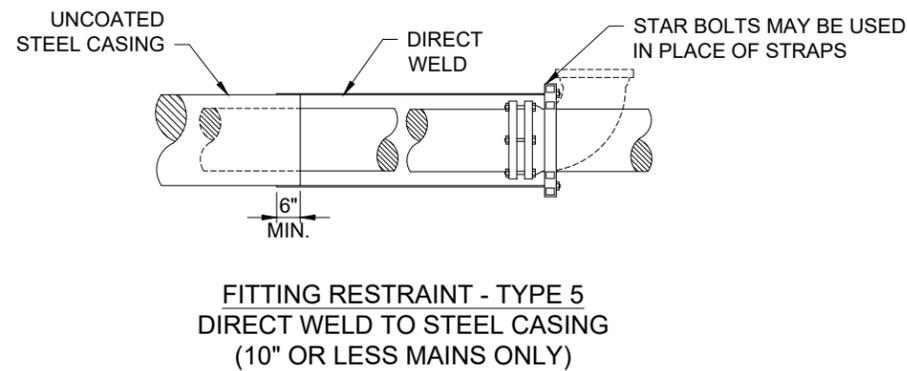
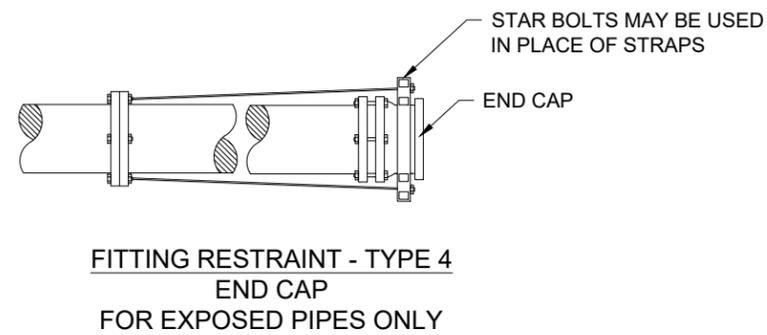
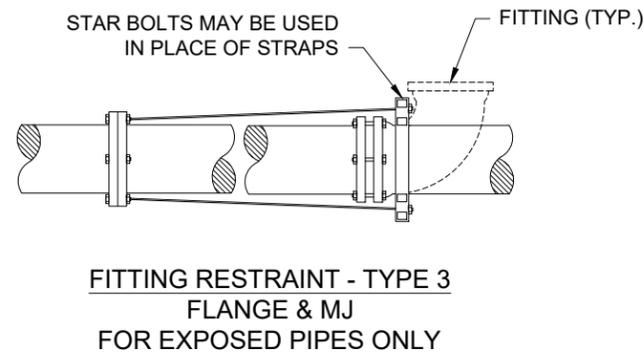
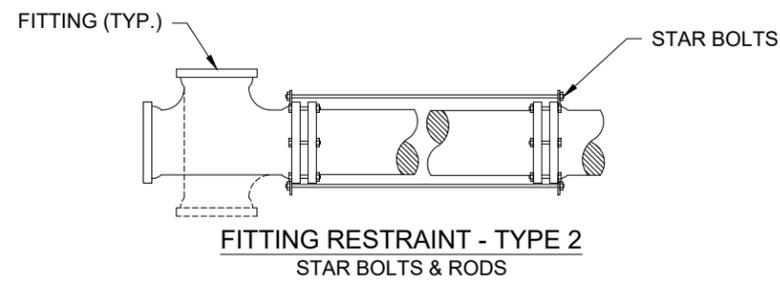
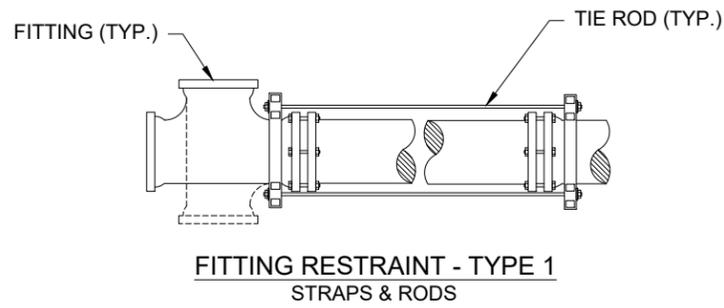
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126



NOTES:

1. SEE DWG. NO. 126 FOR NUMBER AND DIAMETER OF RODS REQUIRED.
2. SEE DWG. NO. 128 FOR STRAP AND ROD DETAILS.
3. BURIED PIPE SHALL BE BELL AND SPIGOT OR MECHANICAL JOINT. NO FLANGE JOINTS ALLOWED FOR BURIED PIPE.
4. AFTER INSTALLATION, TIE-RODS AND CLAMP ASSEMBLIES SHALL BE CLEANED AND THOROUGHLY COVERED WITH ROYSTON LABORATORIES INC. ROSKOTE MASTIC NO. A939 OR KOPPERS CO., INC. BITUMASTIC SUPERSERVICE BLACK OR APPROVED EQUIVALENT.
5. WHEN RESTRAINING FITTINGS TO STEEL CASING PIPE, TIE-RODS MUST BE WELDED DIRECTLY TO THE CASING - USE OF STAR BOLTS ARE PROHIBITED. CASING MUST BE FULLY WELDED THROUGHOUT ITS LENGTH AND BE A MINIMUM OF 30 FEET IN LENGTH. AREA TO BE WELDED MUST BE COMPLETELY BARE AND FREE OF ANY COATING MATERIAL.
6. FITTING SHOWN IS REPRESENTATIVE FOR ALL FITTINGS, VALVES, DEAD ENDS AND PLUGS.
7. RODS MUST HAVE A MINIMUM 6 INCHES OF THREAD ON EACH END.
8. ALL NUTS USED ON TIE RODS MUST HAVE A WASHER.
9. FOR RESTRAINING HDPE PIPE AT NON HDPE FITTINGS PROVIDE THE FOLLOWING:
 - MECHANICAL JOINT RESTRAINT - SERIES 2006PV BY EBBA IRON OR EQUAL.
 - MECHANICAL JOINT GLAND RESTRAINT - SERIES 15MJ00 BY EBBA IRON OR EQUAL.
 - PUSH-ON JOINT RESTRAINT - SERIES 15PF00 BY EBBA IRON OR EQUAL.
 - RESTRAINED FLANGE ADAPTOR (FOR EXPOSED PIPE ONLY) - SERIES 2100 BY EBBA IRON OR EQUAL.
10. FOR RESTRAINING PVC PIPE AT PIPE JOINTS AND FITTINGS PROVIDE THE FOLLOWING:
 - NON PVC MECHANICAL JOINT RESTRAINT - SERIES 2000PV BY EBBA IRON OR EQUAL.
 - NON PVC MECHANICAL JOINT GLAND RESTRAINT - SERIES 15MJ00 BY EBBA IRON OR EQUAL.
 - NON PVC PUSH-ON JOINT RESTRAINT - SERIES 15PF00 BY EBBA IRON OR EQUAL.
 - NON PVC RESTRAINED FLANGE ADAPTOR (FOR EXPOSED PIPE ONLY) - SERIES 2100 BY EBBA IRON OR EQUAL.
 - RESTRAINT HARNESS FOR PVC FITTINGS - SERIES 2500 BY EBBA IRON OR EQUAL.
 - RESTRAINT HARNESS FOR C900 PVC PIPES - SERIES 1900 BY EBBA IRON OR EQUAL.

FULTON COUNTY STANDARD DETAIL 127
THRUST RESTRAINT TIE ROD INSTALLATION

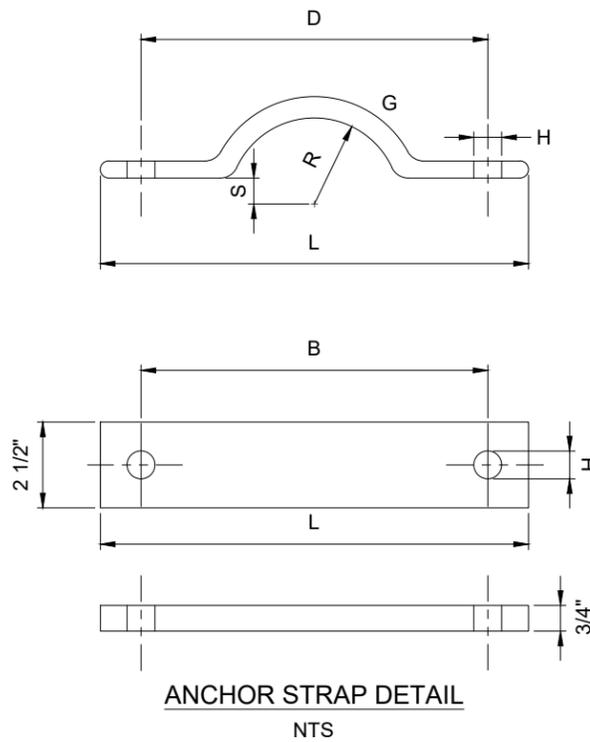
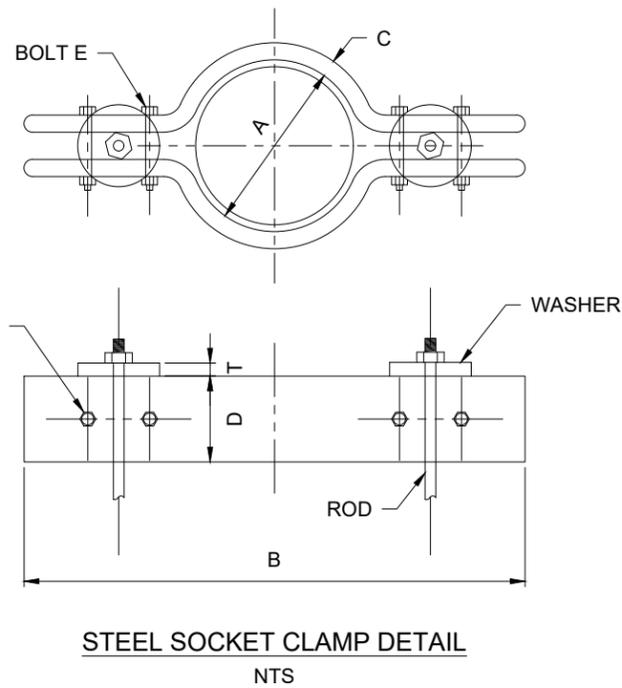
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127



NOTES:

1. INSTALLATION AND MATERIAL OF RODS, CLAMPS, STRAPS, BOLTS AND WASHERS SHALL CONFORM TO THE NATIONAL FIRE CODE - NFFA NO. 24 (LATEST REVISION),
2. YOKES AND ANCHOR STRAPS FOR FITTINGS LARGER THAN 12" SHALL BE DESIGNED AND APPROVED FOR SPECIFIC INSTALLATION.
3. RODS TO BE HIGH TENSILE, NOT ROLLED STEEL WITH TENSILE STRENGTH OF 110,000 PSI AND A MIN. OF 95,000 YIELD STRENGTH.
4. NUTS TO HAVE HEAVY DUTY SEMI-FINISH WITH NATIONAL COURSE THREADS.
5. AFTER INSTALLATION, TIE RODS AND CLAMP ASSEMBLY SHALL BE THOROUGHLY COVERED WITH ROYSTON LABORATORIES, INC. ROSKOTE MASTIC NO. A939 OR KOPPERS CO., INC. BITUMASTIC SUPERSERVICE BLACK OR APPROVED EQUIVALENT.

TABLE 128-1
STEEL SOCKET CLAMP DIMENSIONS

SIZE (IN.)	"A" (IN.)	"B" (IN.)	"C" (IN.)	"D" (IN.)	"E" (IN.)	"T" (IN.)	ROD AND C WASH SIZE (IN.)
4	5	14 ⁵ / ₈	1 ¹ / ₂	2	5 ⁵ / ₈ x 3 ¹ / ₂	5 ⁵ / ₈	3 ³ / ₄
6	7 ¹ / ₈	18 ⁷ / ₈	1 ¹ / ₂	2	5 ⁵ / ₈ x 3 ¹ / ₂	5 ⁵ / ₈	3 ³ / ₄
8	9 ⁵ / ₁₆	19 ¹ / ₈	5 ⁵ / ₈	2 ¹ / ₂	5 ⁵ / ₈ x 3 ³ / ₄	5 ⁵ / ₈	3 ³ / ₄
10	11 ¹ / ₂	21 ³ / ₈	5 ⁵ / ₈	2 ¹ / ₂	5 ⁵ / ₈ x 3 ³ / ₄	3 ³ / ₄	3 ³ / ₄
12	13 ¹ / ₂	25 ¹ / ₆	5 ⁵ / ₈	3	5 ⁵ / ₈ x 3 ³ / ₄	3 ³ / ₄	3 ³ / ₄
14	13 ³ / ₄	28 ¹ / ₄	3 ³ / ₄	3	7 ⁷ / ₈ x 4 ¹ / ₂	7 ⁷ / ₈	3 ³ / ₄
16	17 ⁷ / ₈	31 ³ / ₈	3 ³ / ₄	4	7 ⁷ / ₈ x 4 ¹ / ₂	7 ⁷ / ₈	3 ³ / ₄
20	22 ¹ / ₈	37 ³ / ₄	3 ³ / ₄	4 ¹ / ₂	1 ¹ / ₄ x 5	1 ¹ / ₈	3 ³ / ₄
24	26 ³ / ₈	44 ¹ / ₄	3 ³ / ₄	5	1 ¹ / ₂ x 5 ¹ / ₂	1 ¹ / ₄	3 ³ / ₄

TABLE 128-2
ANCHOR STRAP DIMENSIONS

SIZE (IN.)	"B" (IN.)	"G" (IN.)	"H" (IN.)	"L" (IN.)	"R" (IN.)	"S" (IN.)
4	10 ¹ / ₈	5 ⁵ / ₈ x 2 ¹ / ₂	13 ¹³ / ₁₆	12 ¹ / ₂	2 ¹ / ₂	3 ³ / ₄
6	12 ¹ / ₈	5 ⁵ / ₈ x 2 ¹ / ₂	13 ¹³ / ₁₆	14 ¹ / ₂	3 ⁹ / ₁₆	3 ³ / ₄
8	14 ³ / ₈	5 ⁵ / ₈ x 2 ¹ / ₂	13 ¹³ / ₁₆	16 ³ / ₄	4 ²¹ / ₃₂	3 ³ / ₄
10	16 ¹¹ / ₁₆	5 ⁵ / ₈ x 2 ¹ / ₂	1 ¹ / ₁₆	19 ¹ / ₁₆	5 ³ / ₄	3 ³ / ₄
12	19 ³ / ₁₆	5 ⁵ / ₈ x 3	1 ¹ / ₁₆	22 ⁵ / ₁₆	6 ³ / ₄	7 ⁷ / ₈

FULTON COUNTY STANDARD DETAIL 128
THRUST RESTRAINTS STRAP AND ROD DETAILS

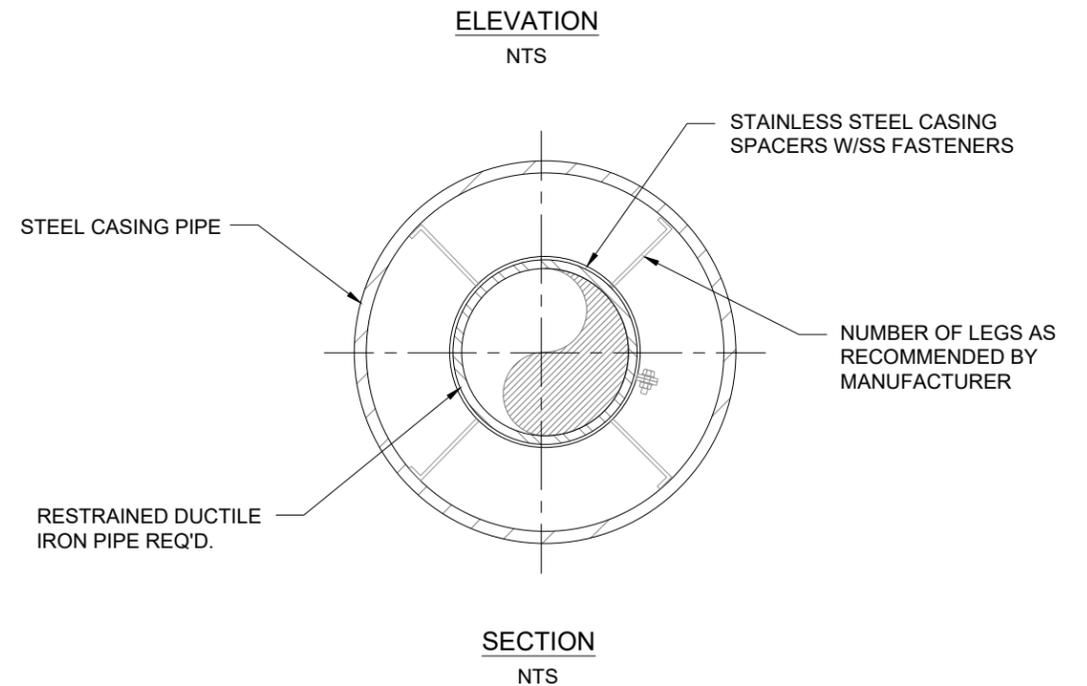
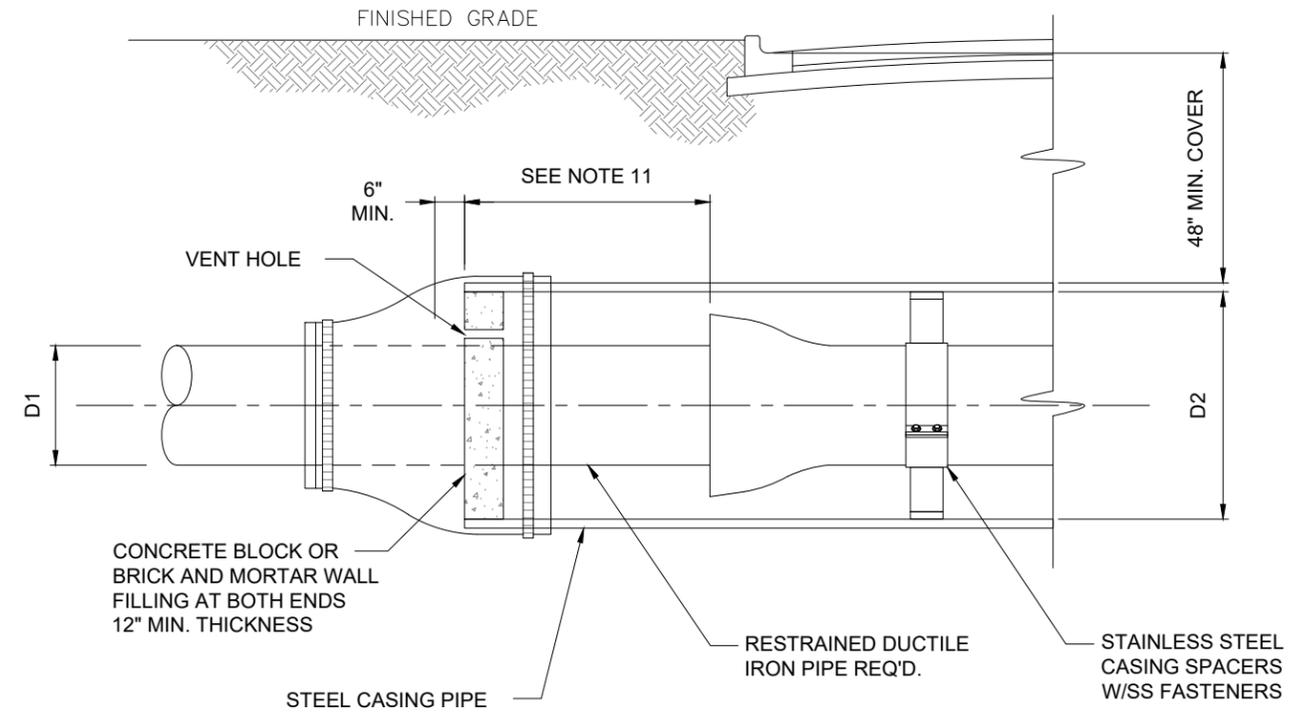
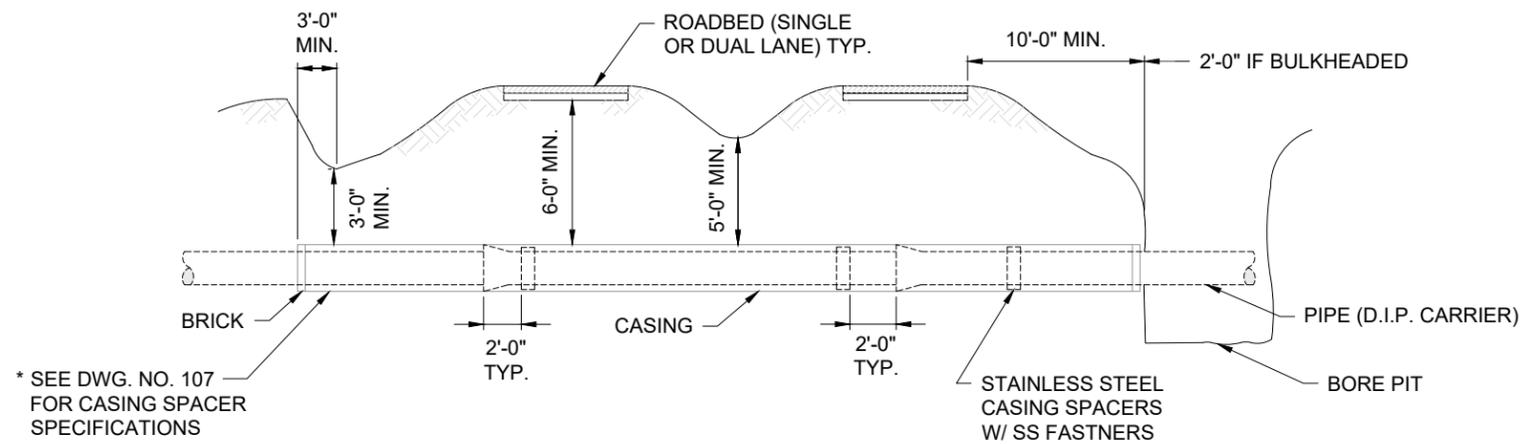
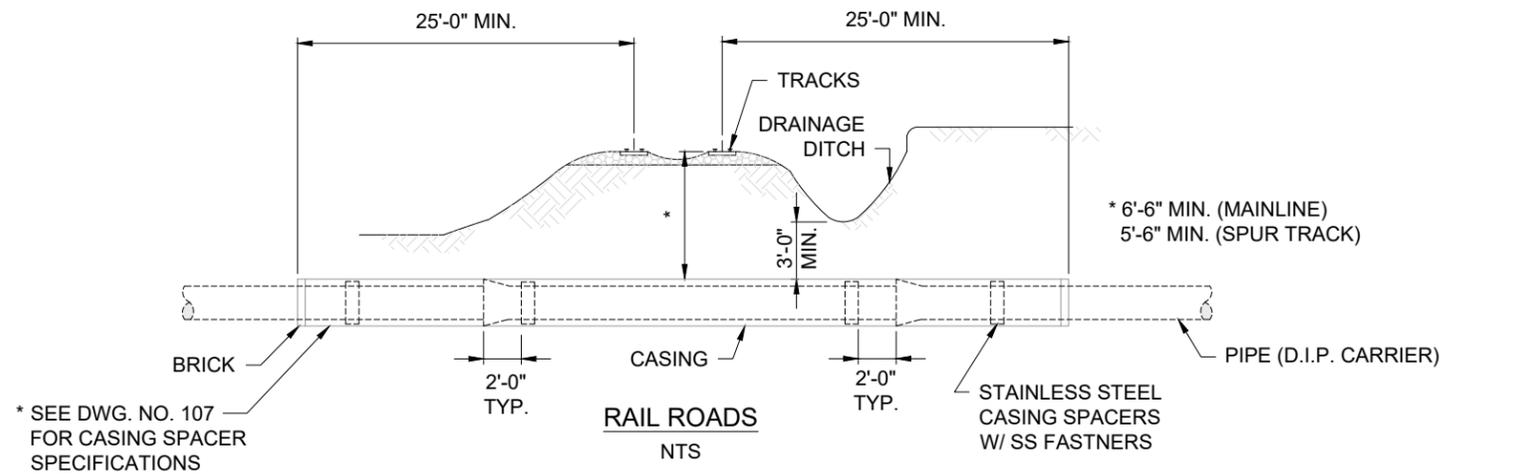
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128



NOTES:

1. CASING TO BE STEEL PIPE (ROUND) WITH 45° BEVELED EDGES.
2. ALL CUTS TO BE SQUARED TO END.
3. JOIN ALL CASINGS WITH DOUBLE BEAD BUTT WELDS.
4. AUGER HEAD DIAMETER CANNOT EXCEED DIAMETER OF CASING BY MORE THAN 2".
5. BORING AND CASING SHALL BE INSTALLED SIMULTANEOUSLY.
6. CARRIER PIPES 6" OR LARGER REQUIRE BORE AND STEEL CASING.
7. CASING PIPE SHALL HAVE A PROTECTIVE COATING CONSISTING OF AN EPOXY HAVING A MINIMUM DRY FILM THICKNESS OF SIXTEEN (16) MILS. SURFACE PREPARATION SHALL BE SSPC-SP-10, AND EPOXY SHALL HAVE A MINIMUM SOLIDS CONTENT OF SIXTY-FIVE (65) PERCENT BY VOLUME AND SHALL BE AIRLESS SPRAY APPLIED. MINIMUM DRYING TIME SHALL BE SEVEN DAYS. EPOXY SHALL BE TNEEC, CARBOLINE, OR VALSPAR.
8. PIT TO BE NO CLOSER THAN 4' BEHIND CURB OR EDGE OF PAVEMENT. PIT TO BE A MINIMUM OF 10' FROM EDGE OF PAVEMENT IN GDOT RIGHT-OF-WAY.
9. TYPICAL PIT IS 32' LONG BY 10' WIDE
10. CASING SHALL BE MANUFACTURED FROM STEEL CONFORMING TO ASTM:A 139, GRADE B.
11. THREE STAINLESS STEEL CASING SPACERS ARE REQUIRED PER JOINT.
12. CARRIER PIPE SHALL BE DIP FOR WATER APPLICATIONS OR DIP AND HDPE FOR SEWER APPLICATIONS.
13. FIELD LOCKING GASKETS REQUIRED INSIDE OF CASING.
14. ALL BORING MUST BE APPROVED AND A PERMIT OBTAINED FROM FULTON COUNTY PUBLIC WORKS (404) 612-7400 AND AUTHORITY HAVING JURISDICTION AS REQUIRED.
15. REFER TO DETAIL 107 FOR CASING SPECIFICATIONS.

FULTON COUNTY STANDARD DETAIL 129
CASING/PIPE SUPPORT INSTALLATION

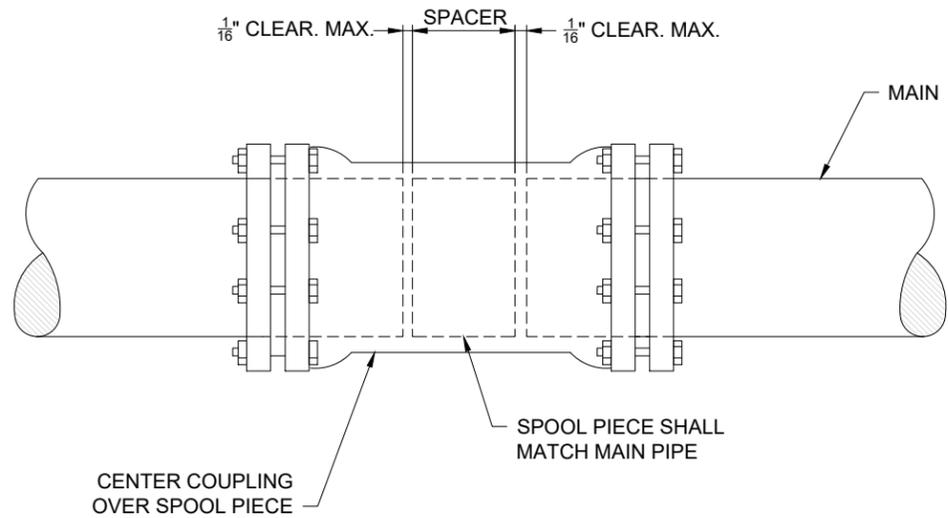
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DRAWING NO.
129



SOLID PIPE SLEEVE DETAIL
NTS

NOTES:

1. IF THE CLEARANCE BETWEEN THE MAIN PIPE AND SPOOL PIECE IS GREATER THAN 1/8-INCH AT IT'S NARROWEST POINT, THEN A FULL CIRCLE SPACER OR "DUTCHMAN" MUST BE CUT AND PLACED IN THE GAP BEFORE THE SLEEVE IS USED TO CLOSE THE JOINT.
2. WIDTH OF THE SPACER SHALL BE AS NEEDED TO MEET MAXIMUM CLEARANCES SHOWN IN DETAIL.
3. EACH PIPE SPIGOT SHALL BE MARKED TO INDICATE THE POINT WHERE THE SLEEVE WILL BE PROPERLY CENTERED OVER THE POINT.
4. "FULL-CIRCLE" REPAIR CLAMPS ARE NOT APPROVED FOR JOINING PIPE. SUCH CLAMPS ARE SPECIFICALLY DESIGNED FOR REPAIRS ONLY.
5. IF A STEEL SLEEVE IS USED, PROPERLY COAT BEFORE BACKFILLING.

130-S.dwg December 10, 2025 10:19am

FULTON COUNTY STANDARD DETAIL 130
PIPE JOINING USE OF SOLID SLEEVE

DATE	REVISIONS	DATE	REVISIONS

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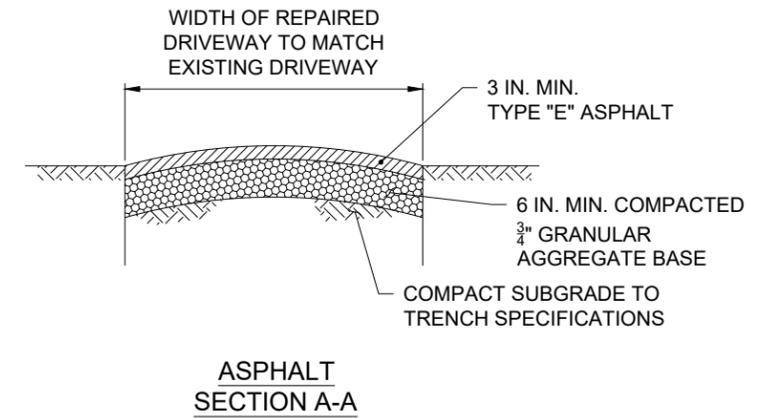
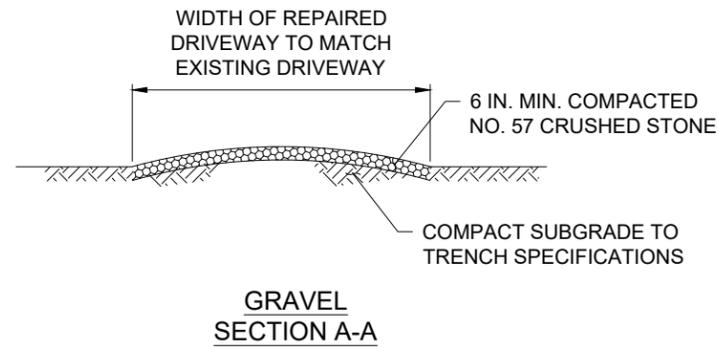
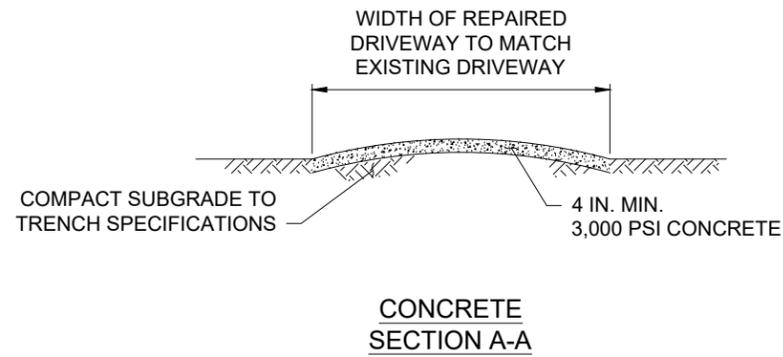
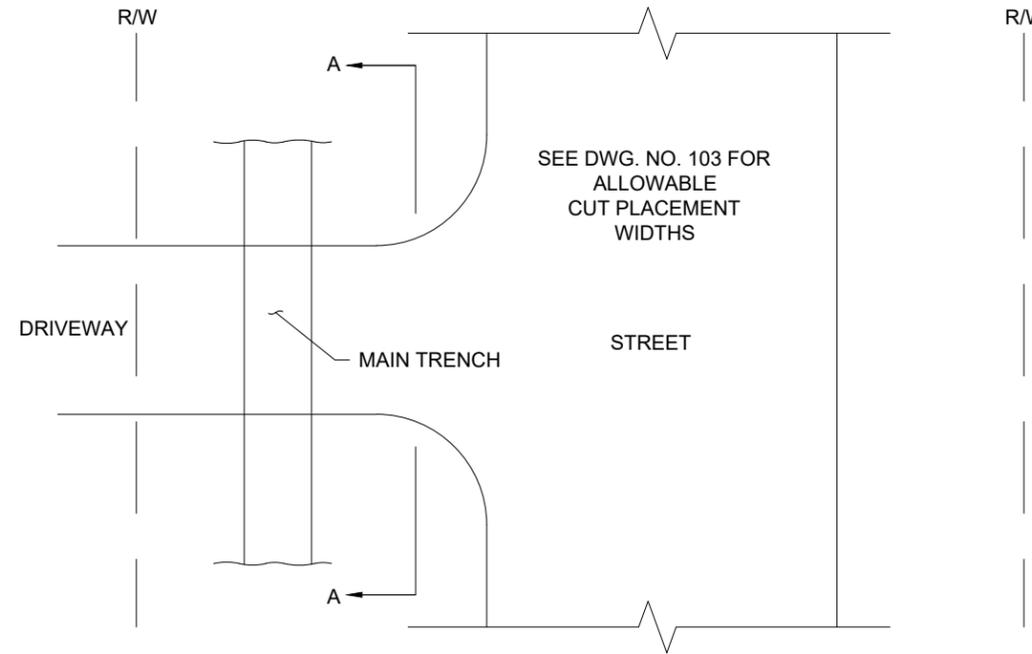


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DRAWING NO.
130

NOTES:

1. FINISHED SURFACE OF REPAIRED AREA TO BE FLUSH WITH ADJACENT EXISTING SURFACE.
2. EDGES OF CUT TO BE SAWN VERTICALLY.
3. EXPANSION JOINTS TO BE USED AS DIRECTED.
4. SEE DWG. 109 FOR STREET CUT REPAIRS.



FULTON COUNTY STANDARD DETAIL 131

DRIVEWAY CUT REPAIRS
CONCRETE, GRAVEL AND ASPHALT

DATE	REVISIONS	DATE	REVISIONS

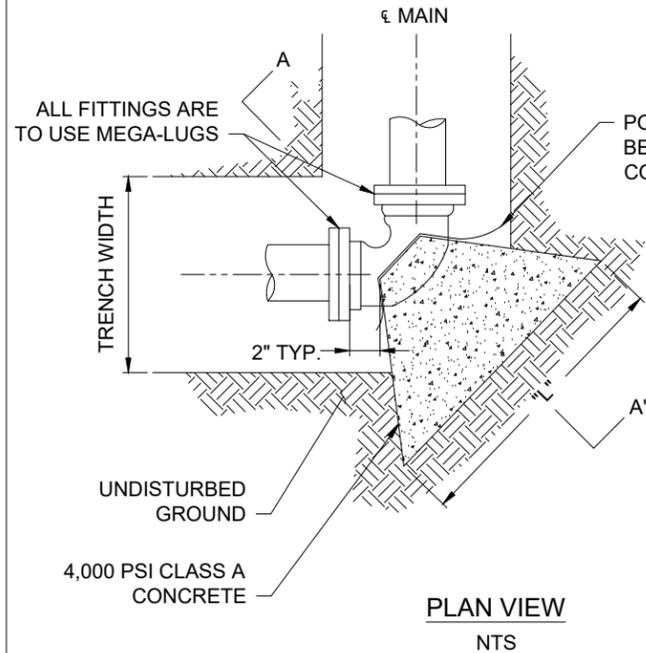
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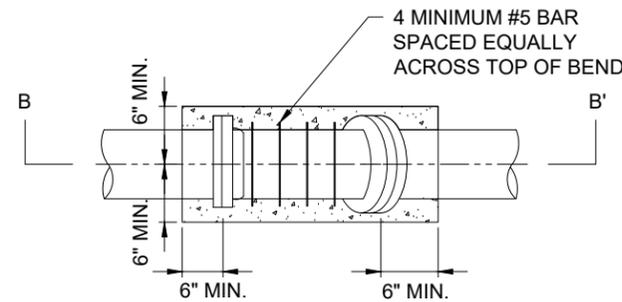
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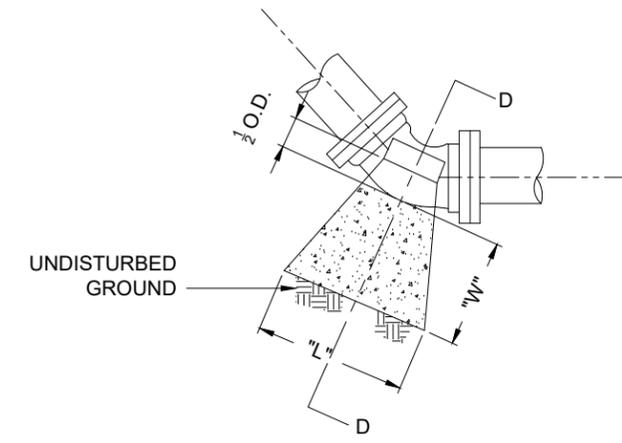
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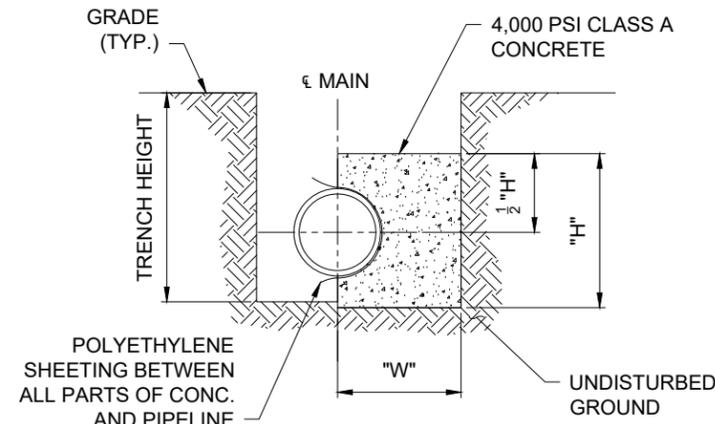
PLAN VIEW
NTS



PLAN VIEW
NTS

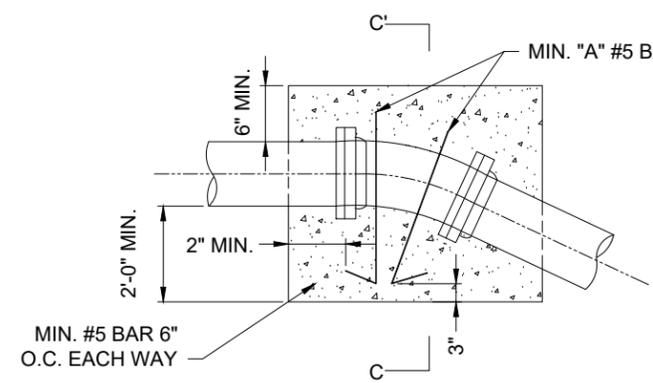


ELEVATION
NTS



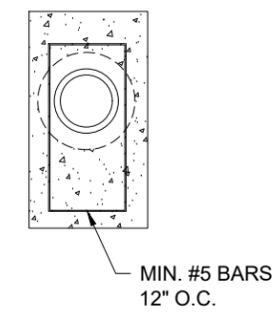
SECTION A-A'
NTS

HORIZONTAL THRUST DETAIL ①
NTS

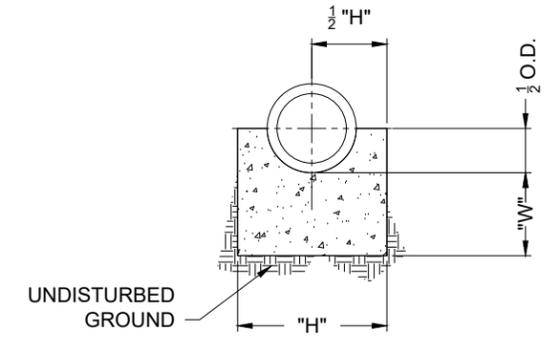


SECTION B-B'
NTS

UPWARD THRUST DETAIL ②
NTS



SECTION C-C'
NTS



SECTION D-D
NTS

DOWNWARD THRUST DETAIL ③
NTS

NOTES:

1. THRUST BLOCK DIMENSIONS ARE BASED ON 2,000 PSF SOIL BEARING PRESSURE AND 250 PSI TEST PRESSURE. ACTUAL INSIDE DIAMETER OF DUCTILE IRON PIPE CLASS 52 USED AS STANDARD.
2. SOIL CONDITIONS SHALL BE VERIFIED BY ENGINEER BEFORE THRUST BLOCK IS CONSTRUCTED. WHERE SOIL BEARING PRESSURE IS LESS THAN 2,000 PSF, THRUST BLOCK BEARING AREA SHALL BE INCREASED APPROPRIATELY.
3. ALL CONCRETE SHALL BE CLASS A, 4000 PSI.
4. SEE DWG. NO. 132B FOR THRUST BLOCK CONCRETE SPECIFICATIONS.

132A-S.DWG December 10, 2025 10:19am

FULTON COUNTY STANDARD DETAIL 132A
STANDARD THRUST BLOCK DETAILS

DATE	REVISIONS	DATE	REVISIONS

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132A

NOTES:

1. THRUST BLOCK DIMENSIONS ARE BASED ON 2,000 PSF SOIL BEARING PRESSURE AND 250 PSI TEST PRESSURE. ACTUAL INSIDE DIAMETER OF DUCTILE IRON PIPE CLASS 52 USED AS STANDARD.
2. SOIL CONDITIONS SHALL BE VERIFIED BY ENGINEER BEFORE THRUST BLOCK IS CONSTRUCTED. WHERE SOIL BEARING PRESSURE IS LESS THAN 2,000 PSF, THRUST BLOCK BEARING AREA SHALL BE INCREASED APPROPRIATELY.
3. ALL CONCRETE SHALL BE CLASS A, 4000 PSI.
4. SEE DWG. NO. 132A FOR THRUST BLOCK CONCRETE DETAILS.

BEND	PIPE SIZE (IN.)	"W" (FT.)	"L" (FT.)	"H" (FT.)	VOLUME (CY)
11 1/4°	6	1.0	2.0	1.0	0.04
	8	1.0	2.0	1.0	0.05
	12	1.0	2.0	2.0	0.1
	16	2.0	3.0	2.0	0.3
	20	2.0	3.0	3.0	0.5
22 1/2°	6	1.0	2.0	1.0	0.05
	8	1.0	2.0	2.0	0.1
	12	2.0	3.0	2.0	0.3
	16	2.0	4.0	3.0	0.6
	20	3.0	5.0	3.0	1.0
45°	6	1.5	2.0	1.5	0.11
	8	2.0	3.0	2.0	0.3
	12	2.0	4.0	3.0	0.7
	16	3.0	5.0	4.0	1.4
	20	4.0	6.0	5.0	2.6
90°	6	1.75	2.5	2.0	0.2
	8	2.0	3.0	3.0	0.4
	12	4.0	6.0	4.0	2.1
	16	4.0	7.0	5.0	3.1
	20	5.0	8.0	7.0	5.3
TEE BRANCHES, PLUGS & CAPS (ALL CIRCUMSTANCES)	6	1.5	2.0	1.75	0.13
	8	2.0	3.0	2.0	0.3
	12	2.0	4.0	4.0	0.8
	16	3.0	5.0	5.0	1.5
	20	4.0	7.0	6.0	3.9

BEND	PIPE SIZE (IN.)	VOLUME (CY)	"A" NO. OF VERT. BARS REQ'D.
11 1/4°	6	0.3	2
	8	0.5	2
	12	1.4	2
	16	2.4	3
	20	3.8	3
22 1/2°	6	0.7	2
	8	1.2	2
	12	2.7	2
	16	4.8	3
	20	7.4	3
45°	6	1.2	2
	8	2.2	2
	12	4.9	2
	16	8.8	3
	20	13.7	3
90°	6	1.8	2
	8	3.1	2
	12	7.0	3
	16	12.4	3
	20	19.4	4

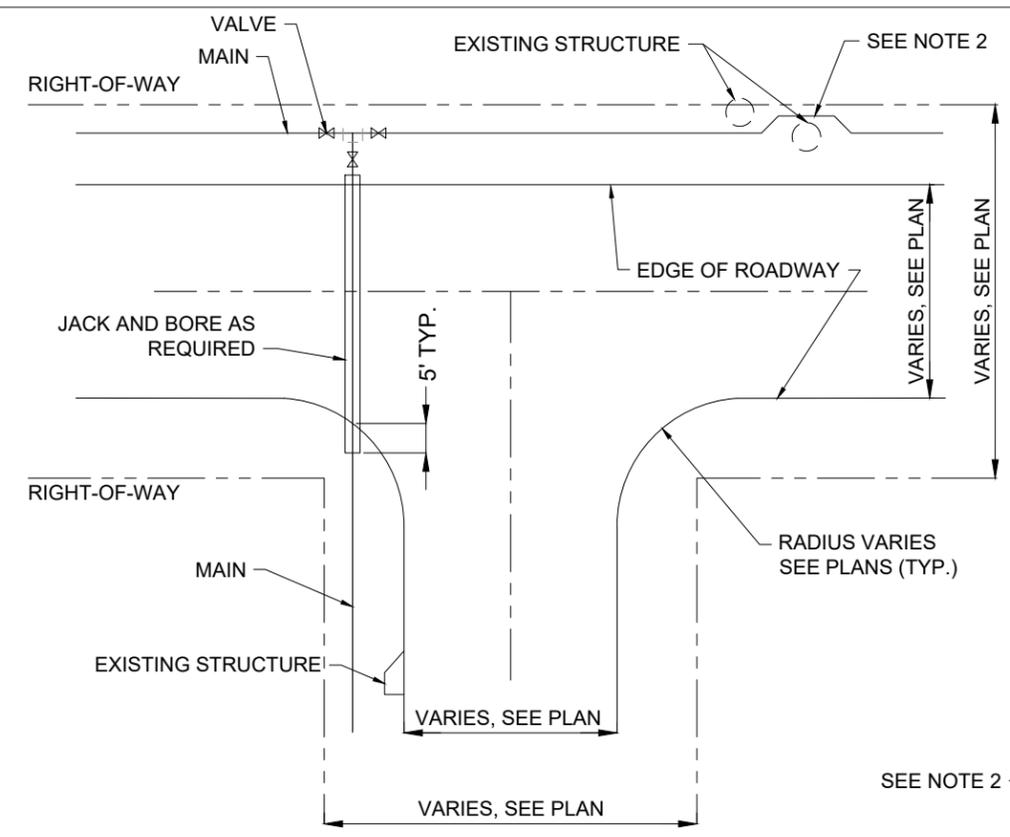
BEND	PIPE SIZE (IN.)	"W" (FT.)	"L" (FT.)	"H" (FT.)	VOLUME (CY)
11 1/4°	6	1.0	2.0	1.0	0.04
	8	1.0	2.0	1.0	0.05
	12	1.0	2.0	2.0	0.1
	16	2.0	3.0	2.0	0.3
	20	2.0	3.0	3.0	0.5
22 1/2°	6	1.0	2.0	1.0	0.05
	8	1.0	2.0	2.0	0.1
	12	2.0	3.0	2.0	0.3
	16	2.0	4.0	3.0	0.6
	20	3.0	5.0	3.0	1.0
45°	6	1.5	2.0	1.5	0.11
	8	2.0	3.0	2.0	0.3
	12	2.0	4.0	3.0	0.7
	16	3.0	5.0	4.0	1.4
	20	4.0	8.0	5.0	2.8
90°	6	1.75	2.5	2.0	0.2
	8	2.0	3.0	3.0	0.4
	12	4.0	6.0	4.0	2.1
	16	4.0	7.0	5.0	3.1
	20	5.0	8.0	7.0	5.3

132B-S.dwg December 10, 2025 10:19am

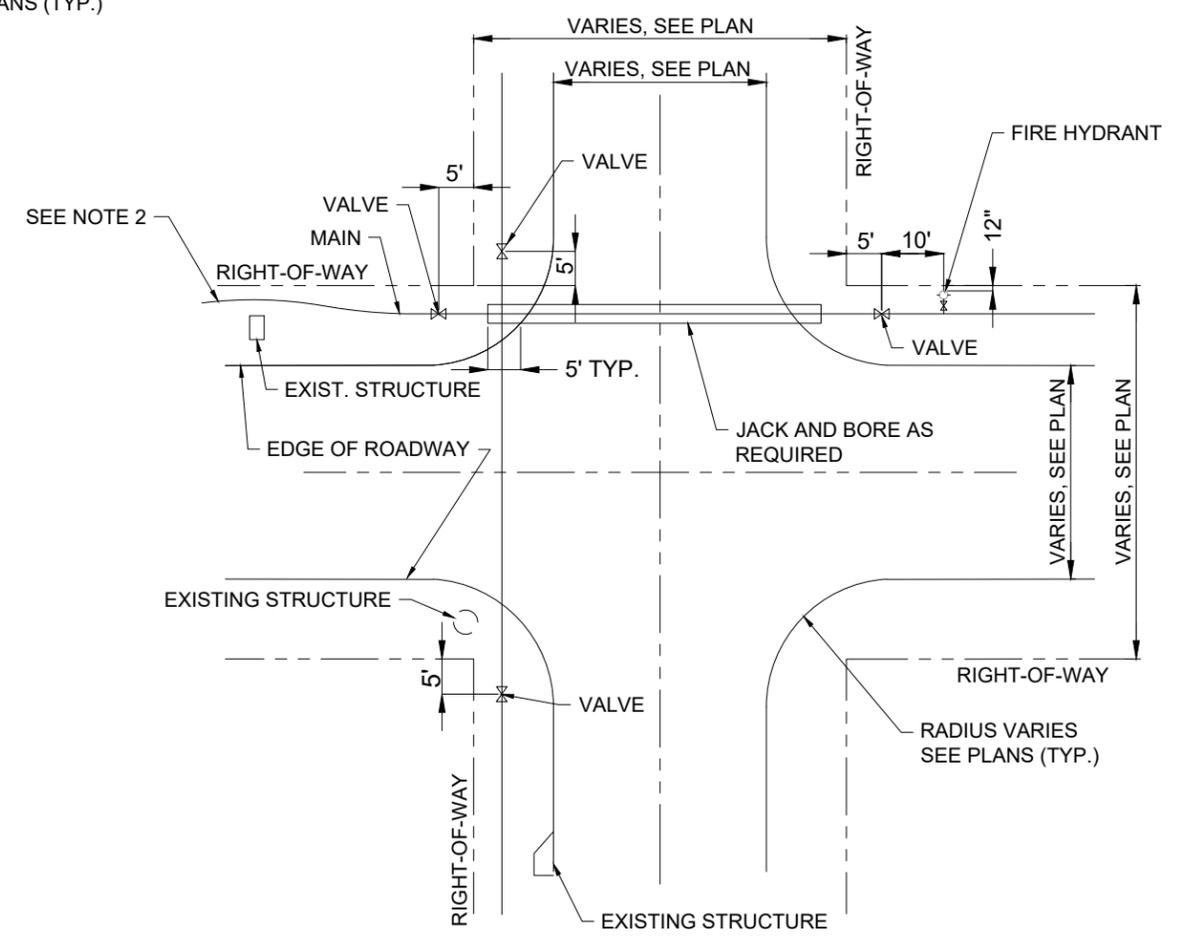
FULTON COUNTY STANDARD DETAIL 132B STANDARD THRUST BLOCK DETAILS		DATE	REVISIONS	DATE	REVISIONS	DGS/DRN/CHKD: MB/EB/ML APPROVED: TM DATE: 01-21-2026		FULTON COUNTY PUBLIC WORKS 141 PRYOR ST. ATLANTA, GA. 30303 404-612-7400 FAX: 404-224-0498	DRAWING NO.	
										132B

NOTES:

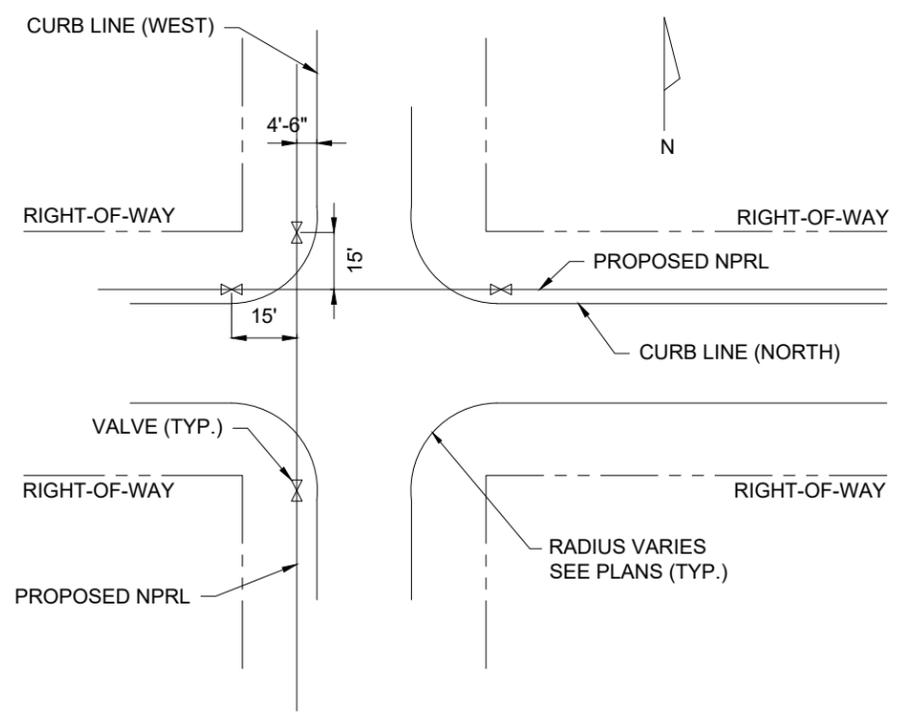
1. DEPTH OF COVER OVER WATER MAINS SHALL BE MINIMUM OF 4 FT.
2. WHEN GOING AROUND STRUCTURES, ROUTE WATER MAIN AROUND STRUCTURES BY PIPE JOINT DEFLECTION, AND WHERE NECESSARY, INSTALL 45° BENDS OR LESS.
3. VALVES SHALL BE MARKED IN THE CURB WITH A SAWCUT "V" AND PAINT.



TYPICAL BRANCH CONNECTION AT INTERSECTION
NTS



TYPICAL WATER MAIN AT INTERSECTION
NTS



SUBDIVISION INTERSECTION DETAIL VALVE & MAIN
NTS

FULTON COUNTY STANDARD DETAIL 133
MAIN EXTENSION BLOCKING DETAILS AND SUBDIVISION INTERSECTION DETAILS

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026

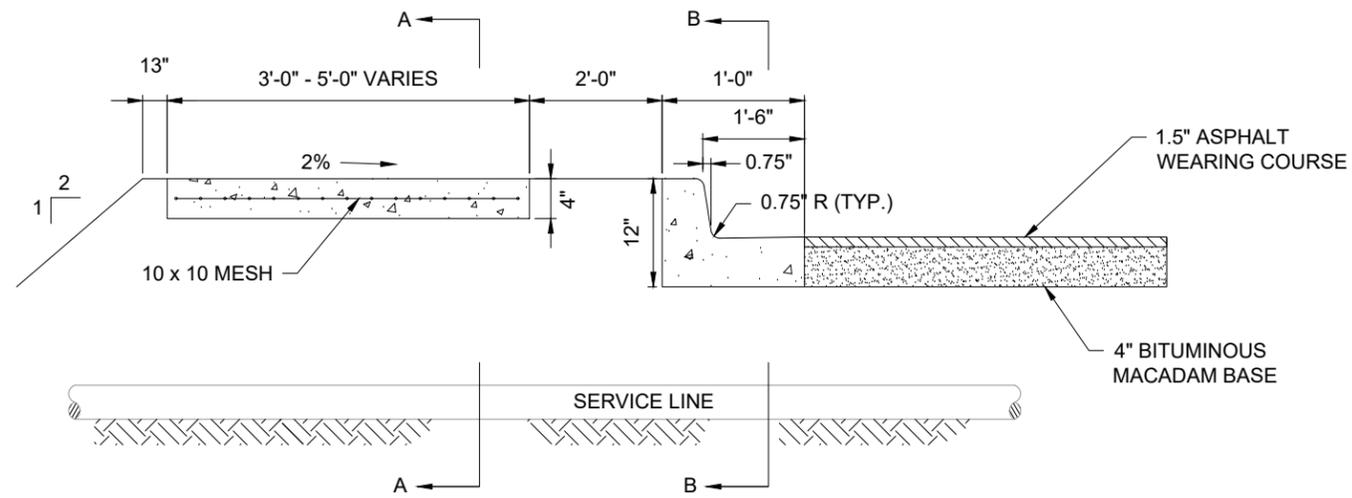


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141 PRYOR ST. ATLANTA, GA. 30303
404-612-7400 FAX: 404-224-0498

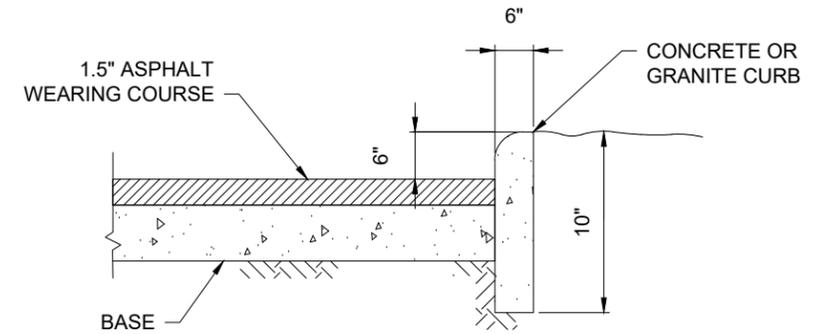
DRAWING NO.
133

NOTES:

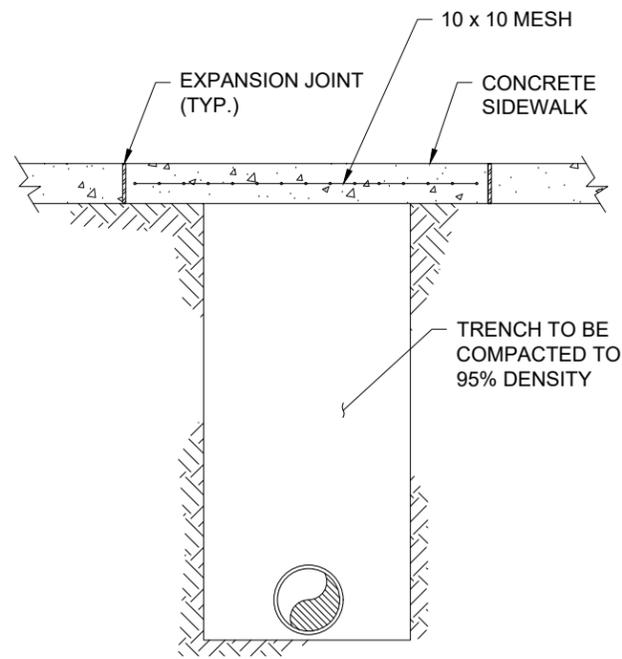
1. DETAILS ARE TYPICAL.
2. REPLACE SIDEWALKS, CURB AND GUTTER AND CURBING TO MATCH EXISTING MATERIALS AS DIRECTED.



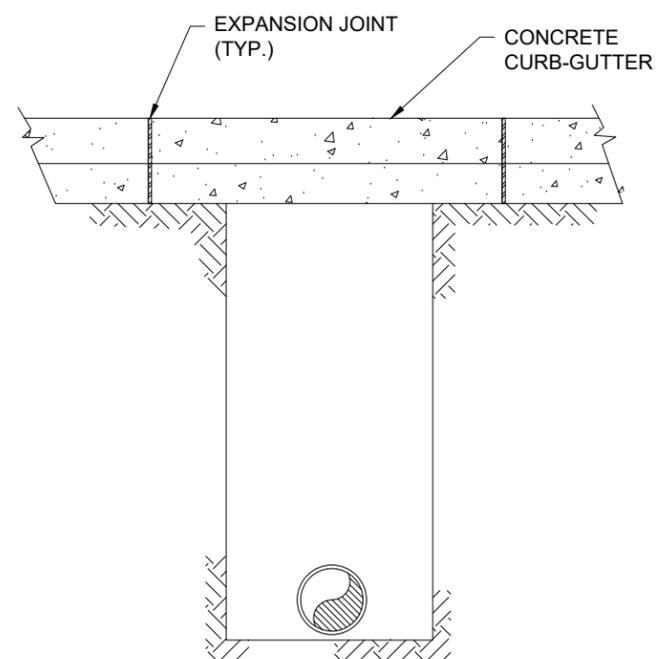
TYPICAL CURB-GUTTER DETAIL
NTS



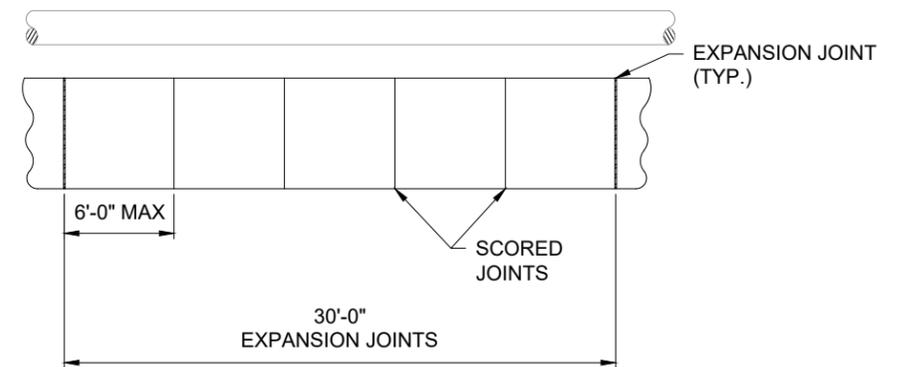
TYPICAL CURB DETAIL
NTS



SECTION A - A



SECTION B - B



TYPICAL SIDEWALK JOINT PLACEMENT DETAIL
NTS

FULTON COUNTY STANDARD DETAIL 134
SIDEWALK, CURB AND GUTTER REPAIRS

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026



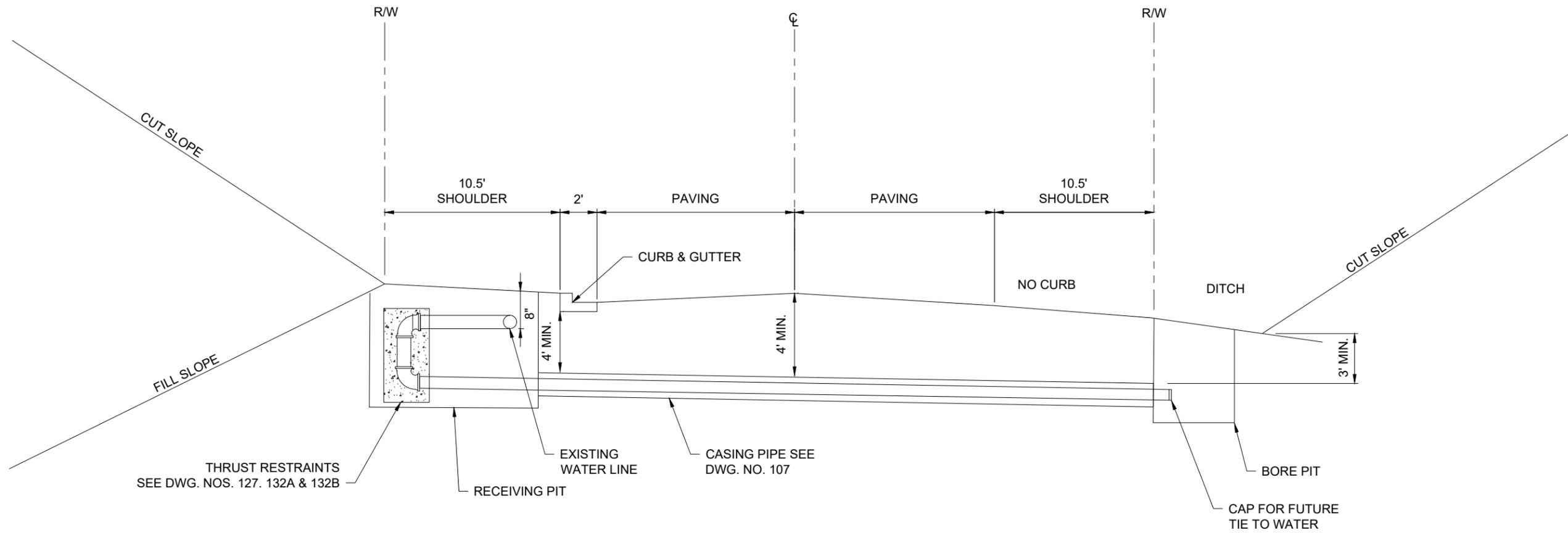
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404-612-7400 FAX: 404-224-0498

DRAWING NO.

134

NOTES:

- SEE DWG. NO. 125 FOR CONCRETE COLLAR THRUST RESTRAINT DETAIL.



FULTON COUNTY STANDARD DETAIL 135
ROADWAY CROSSING BACK TAP DETAIL

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026



FULTON COUNTY PUBLIC WORKS
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404-612-7400 FAX: 404-224-0498

DRAWING NO.

135

GENERAL NOTES

1. SHOW THE FOLLOWING NOTES ON THE APPROVED PLANS:
 - A. SIGNING, STRIPING, MARKING, AND HIGH LEVEL WARNING DEVICES TO BE PLACED AS SHOWN AND/OR AS DIRECTED BY THE FULTON COUNTY TRAFFIC ENGINEER AND/OR FULTON COUNTY INSPECTOR. THIS TRAFFIC CONTROL PLAN IS SUBJECT TO CHANGE BY THE FULTON COUNTY TRAFFIC ENGINEER.
 - B. WARNING DEVICES SHALL BE PLACED PRIOR TO THE COMMENCEMENT OF ANY ROAD IMPROVEMENT WORK ON COUNTY ROADS AND SHALL REMAIN IN PLACE UNTIL THE CONCLUSION OF ALL SIGNING AND STRIPING WORK.
 - C. ALL SIGNS AND WARNING DEVICES SHALL BE EITHER TYPE I BARRICADES OR DRUMS WITH WARNING LIGHTS ON EVERY OTHER DEVICE, AND SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, (M.U.T.C.D.), STANDARDS AND FULTON COUNTY FOR COLOR, SIZE, REFLECTIVITY, HEIGHT, AND PLACEMENT.
 - D. SPACING OF WARNING DEVICES IN FEET SHALL BE EQUAL TO THE POSTED SPEED OF THE ROAD IN MPH. (I.E., 30 FEET SPACING FOR 30 MPH SPEED LIMIT)
 - E. ALL SIGNS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, (M.U.T.C.D.), STANDARDS AND FULTON COUNTY FOR COLOR, SIZE, REFLECTIVITY, HEIGHT, AND PLACEMENT.
 - F. STRIPING (WHITE AND YELLOW) AND ARROW MARKING SHALL BE APPLIED USING FULTON COUNTY OR GEORGIA DEPARTMENT OF TRANSPORTATION, GDOT, STANDARD THERMOPLASTIC.
 - G. WHEN NECESSARY, EXISTING STRIPING SHALL BE REMOVED BY GRINDING, UNLESS SPECIFIED BY THE FULTON COUNTY TRAFFIC ENGINEER.
 - H. ALL SIGNS MUST BE INSTALLED CONCURRENTLY WITH THE PERFORMANCE OF THE STRIPING WORK.
 - I. CONTACT THE FULTON COUNTY TRAFFIC INSPECTOR ENGINEER ONE WEEK PRIOR TO COMMENCEMENT OF ANY STRIPING WORK.

DWG. NO.	DESCRIPTION
300	INDEX AND GENERAL NOTES
301	TYPICAL SECTIONS STREETS
302	TYPICAL SECTIONS SUBDIVISION STREETS
303	TYPICAL SECTIONS CUL DE SAC
304	DRIVEWAY DETAILS
305	DIVIDED ENTRANCE DETAILS
306	MISCELLANEOUS DETAILS
307	CURB AND GUTTER DETAILS
308	STANDARD SIDEWALK SECTION
309	TYPICAL SECTION TWO LANE ROAD DECELERATION LANE
310	LEFT TURN LANE WITH WIDING ON BOTH SIDES
311	LEFT TURN LANE WITH WIDING ON ONE SIDE
312	HANDICAP RAMP DETAILS
313	MINI ROUNDABOUT
314	CHICANES
315	SPEED TABLE
316	INTERSECTION HUMP
317	ONE LANE CHOKER
318	ENTRANCE TREATMENT
319	CENTER ISLAND
320	BEAM TYPE GUARD RAIL
322A	SIGN DETAILS AND LOCATIONS
322B	SIGN DETAILS AND LOCATION SHEET 2 OF 3
322C	SIGN DETAILS AND LOCATION SHEET 3 OF 3

300-S.dwg December 08, 2025 1:55pm

FULTON COUNTY STANDARD DETAIL 300
INDEX AND GENERAL NOTES

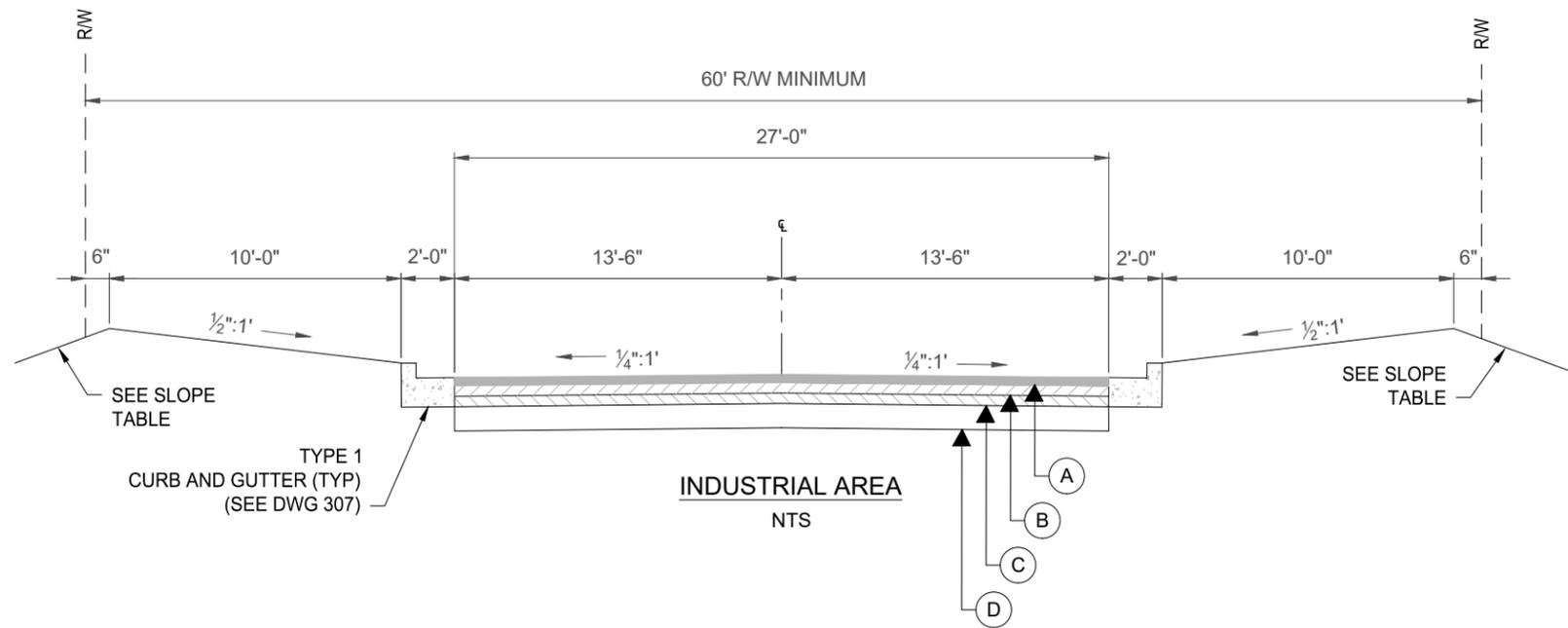
DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
 APPROVED: TM
 DATE: 01-21-2026



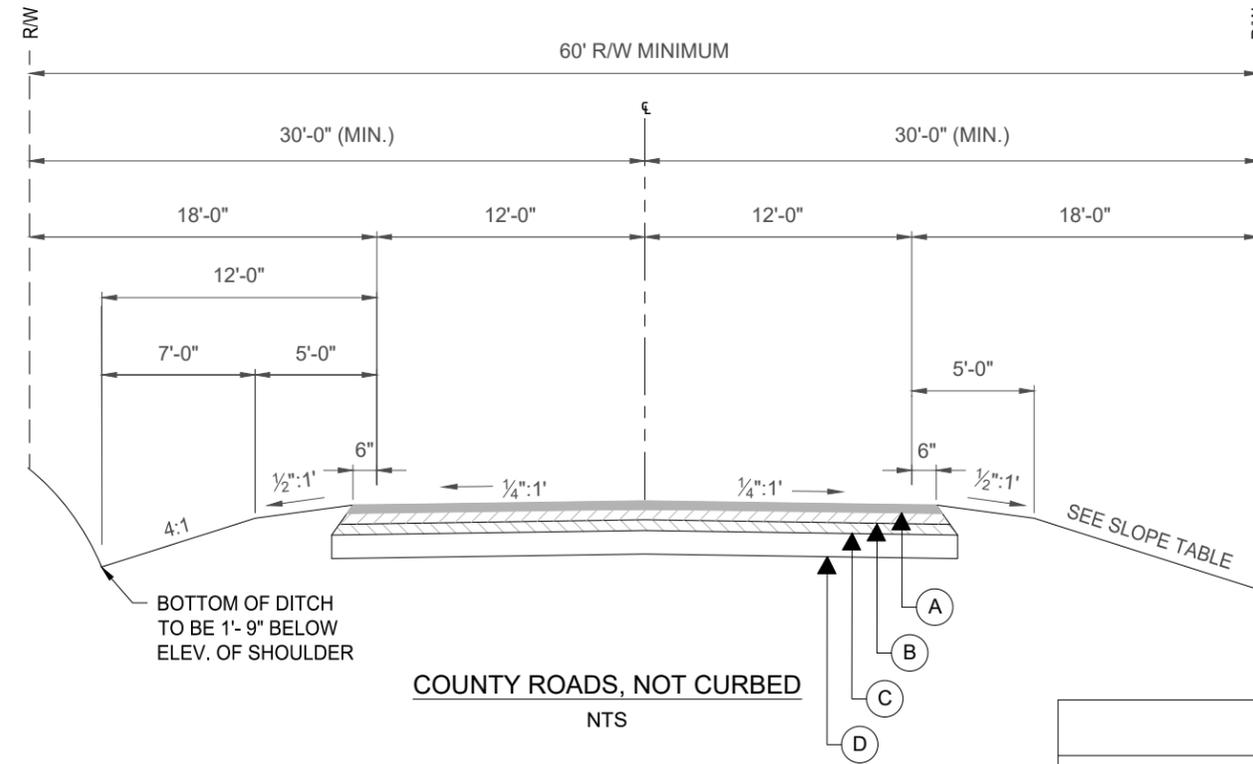
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DRAWING NO.
300



TYPE 1 CURB AND GUTTER (TYP) (SEE DWG 307)

INDUSTRIAL AREA
NTS



BOTTOM OF DITCH TO BE 1'-9" BELOW ELEV. OF SHOULDER

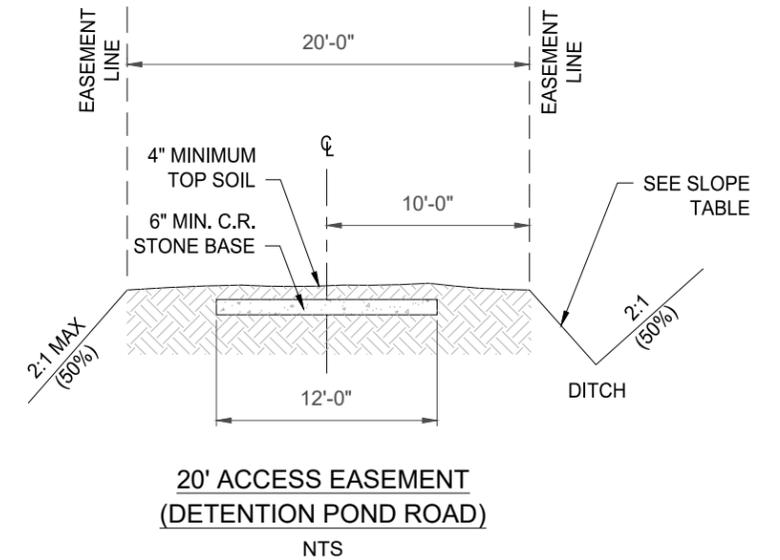
COUNTY ROADS, NOT CURBED
NTS

CUT SLOPE		FILL SLOPE	
0' - 5'	5' OR MORE	0' - 5'	5' OR MORE
4:1	2:1	4:1	2:1

NOTES:

1. THE DIRECTOR OF PUBLIC WORKS DUE TO TRAFFIC CHARACTERISTICS MAY REQUIRE A HEAVIER PAVEMENT SECTION.
2. PAVING SECTION TO BE APPROVED BY DEPARTMENT OF PUBLIC WORKS.
3. RAISED PAVEMENT MARKERS TO BE USED AS REQUIRED AND MUST BE APPROVED BY COUNTY ENGINEER/INSPECTOR.
4. TACK COAT (CRS2H, SS1 OR AC30) TO BE USED AS REQUIRED.
5. PRIME COAT (RC70) TO BE USED AS REQUIRED.

(A) ASPHALT, CONCRETE 9.5 mm SUPERPAVE, 165 lb/yd ² (1-1/2")
(B) ASPHALT, CONCRETE 19 mm SUPERPAVE, 220 lb/yd ² (2")
(C) ASPHALT, CONCRETE 25 mm SUPERPAVE, 330 lb/yd ² (3")
(D) GRADED AGGREGATE BASE (CRUSHER RUN) (8")



20' ACCESS EASEMENT
(DETENTION POND ROAD)
NTS

FULTON COUNTY STANDARD DETAIL 301

TYPICAL SECTIONS
STREETS

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026



FULTON COUNTY PUBLIC WORKS
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DRAWING NO.

301

NOTES:

1. THE DIRECTOR OF PUBLIC WORKS DUE TO TRAFFIC CHARACTERISTICS MAY REQUIRE A HEAVIER PAVEMENT SECTION.
2. PAVING SECTION TO BE APPROVED BY DEPARTMENT OF PUBLIC WORKS.
3. RAISED PAVEMENT MARKERS TO BE USED AS REQUIRED AND MUST BE APPROVED BY COUNTY ENGINEER/INSPECTOR.
4. TACK COAT (CRS2H, SS1 OR AC30) TO BE USED AS REQUIRED.
5. PRIME COAT (RC70) TO BE USED AS REQUIRED.

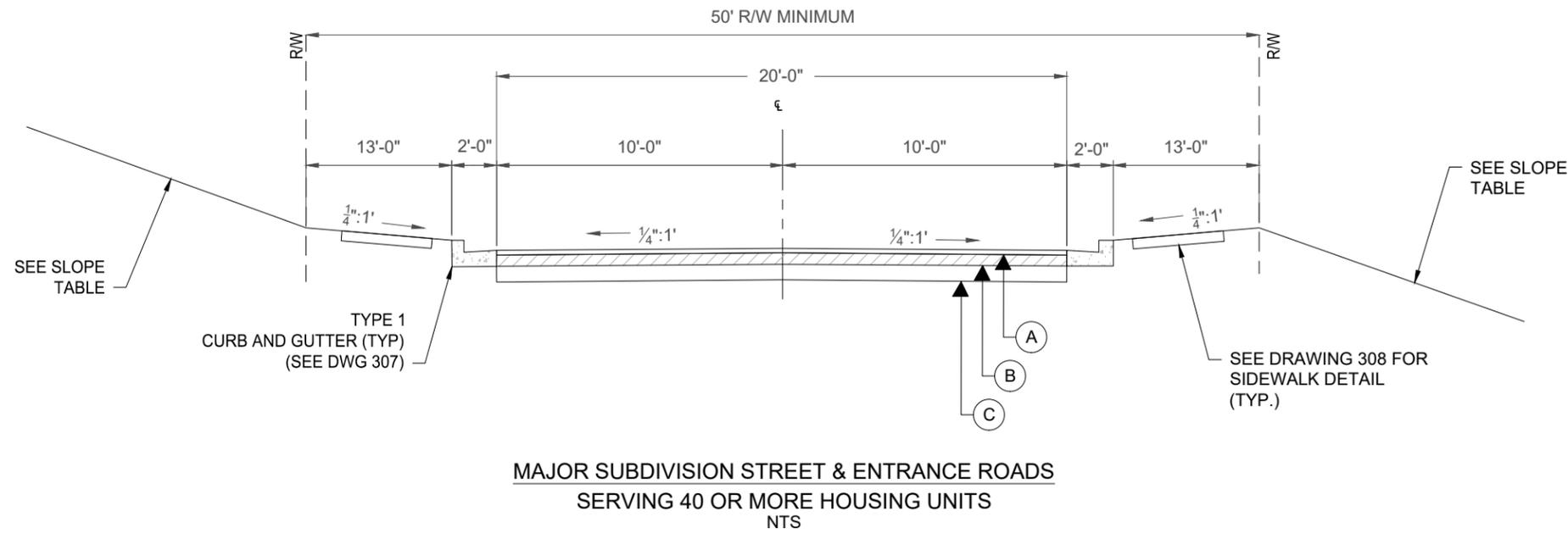


TABLE 302-1 MAJOR SUBDIVISION STREETS AND ENTRANCE ROADS	
PAVEMENT MATERIAL SCHEDULE	
(A)	ASPHALT, CONCRETE 9.5 mm SUPERPAVE, 165 lb/yd ² (1-1/2")
(B)	ASPHALT, CONCRETE 19 mm SUPERPAVE, 220 lb/yd ² (2")
(C)	GRADED AGGREGATE BASE (CRUSHER RUN) (8")

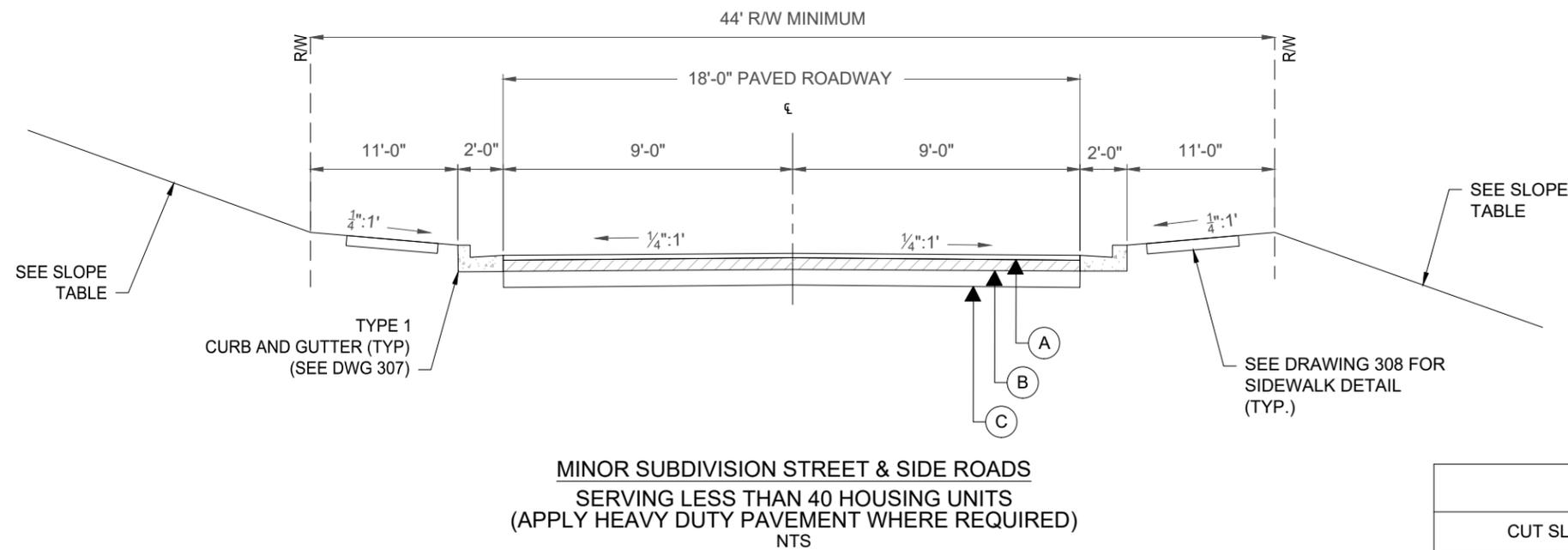


TABLE 302-2 MINOR SUBDIVISION STREETS AND SIDE ROADS	
PAVEMENT MATERIAL SCHEDULE	
(A)	ASPHALT, CONCRETE 9.5 mm SUPERPAVE, 165 lb/yd ² (1-1/2")
(B)	ASPHALT, CONCRETE 19 mm SUPERPAVE, 220 lb/yd ² (2")
(C)	GRADED AGGREGATE BASE (CRUSHER RUN) (6")

TABLE 302-3 SLOPE TABLE			
CUT SLOPE		FILL SLOPE	
0' - 5'	5' OR MORE	0' - 5'	5' OR MORE
4:1	2:1	4:1	2:1

FULTON COUNTY STANDARD DETAIL 302

TYPICAL SECTIONS
SUBDIVISION STREETS

DATE	REVISIONS	DATE	REVISIONS

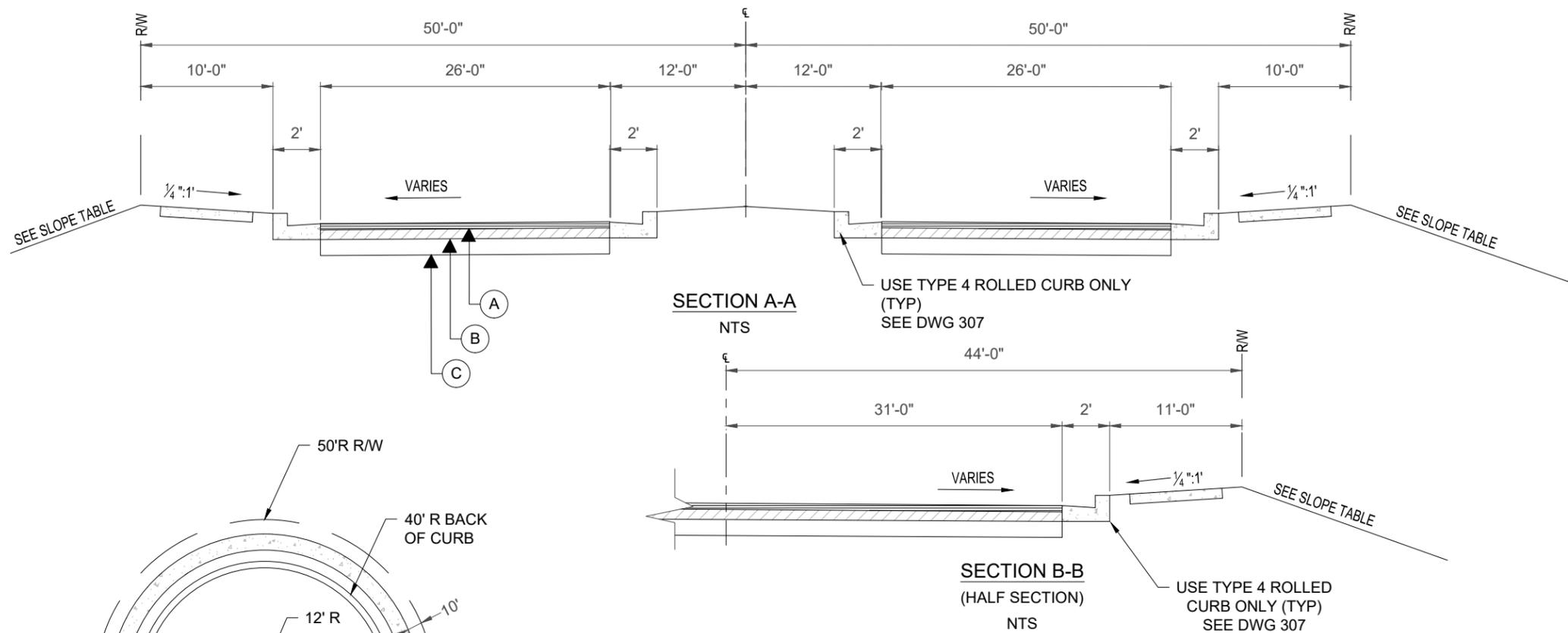
DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026



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DRAWING NO.

302



NOTES:

1. RAISED PAVEMENT MARKERS TO BE USED AS REQUIRED AND MUST BE APPROVED BY COUNTY ENGINEER/INSPECTOR.
2. TACK COAT (CRS2H, SS1 OR AC30) TO BE USED AS REQUIRED.
3. PRIME COAT (RC70) TO BE USED AS REQUIRED.

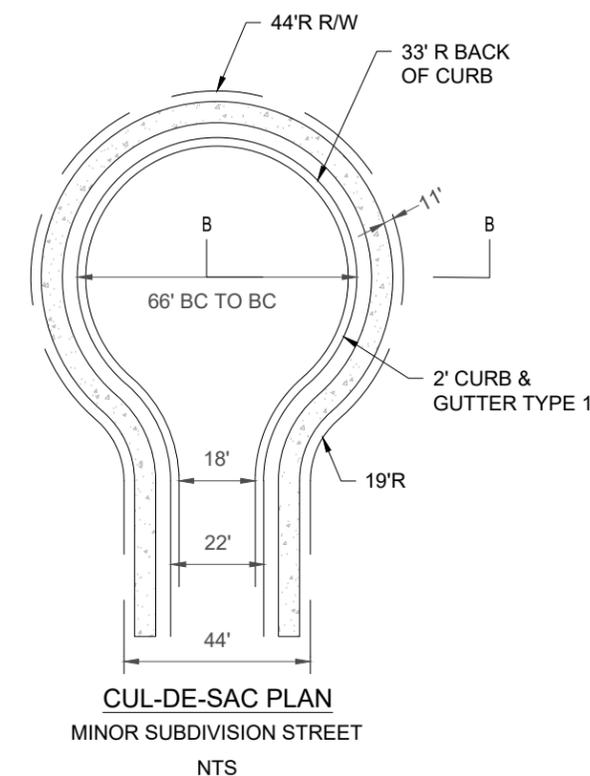
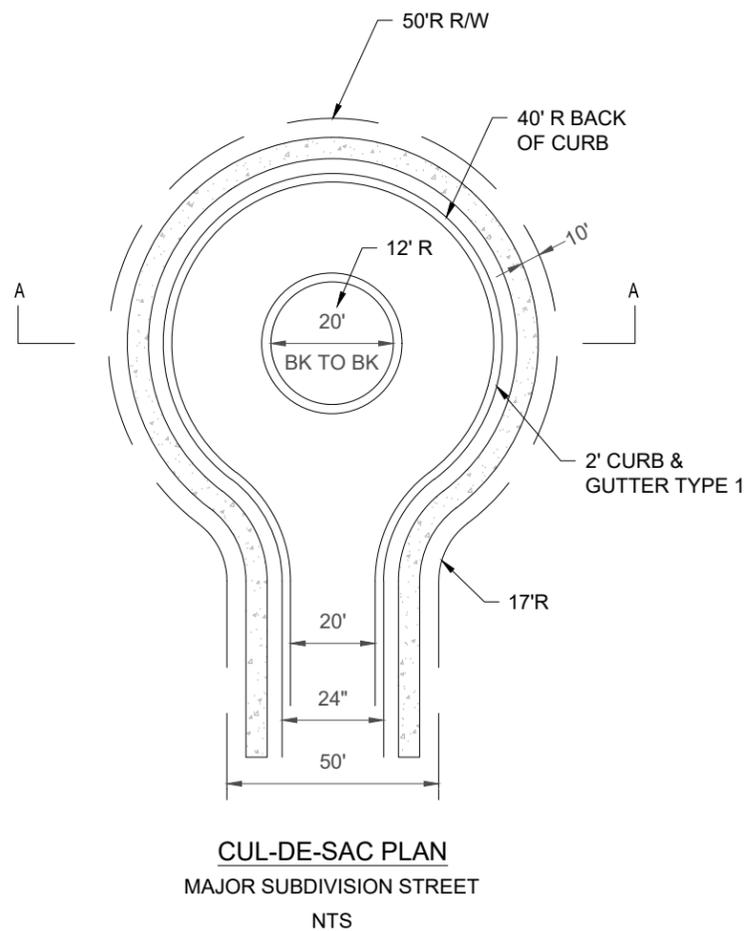


TABLE 303-1 MAJOR SUB.DIV.STREETS & ENTRANCE SCHEDULE	
PAVEMENT MATERIAL SCHEDULE	
(A)	ASPHALT, CONCRETE 9.5 mm SUPERPAVE, 165 LB/YD ² (1-1/2")
(B)	ASPHALT, CONCRETE 19 mm SUPERPAVE, 220 LB/YD ² (2")
(C)	GRADED AGGREGATE BASE (CRUSHER RUN) 8"

TABLE 303-2 MINOR SUB.DIV.STREET & SIDE ROADS	
PAVEMENT MATERIAL SCHEDULE	
(A)	ASPHALT, CONCRETE 9.5 mm SUPERPAVE, 165 LB/YD ² (1-1/2")
(B)	ASPHALT, CONCRETE 19 mm SUPERPAVE, 220 LB/YD ² (2")
(C)	GRADED AGGREGATE BASE (CRUSHER RUN) 8"

TABLE 303-3 SLOPE TABLE			
CUT SLOPE		FILL SLOPE	
0'-5"	5' OR MORE	0'-5'	5' OR MORE
4:1	2:1	4:1	2:1

FULTON COUNTY STANDARD DETAIL 303

TYPICAL SECTIONS
CUL DE SAC

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
 APPROVED: TM
 DATE: 01-21-2026



FULTON COUNTY PUBLIC WORKS
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DRAWING NO.
303

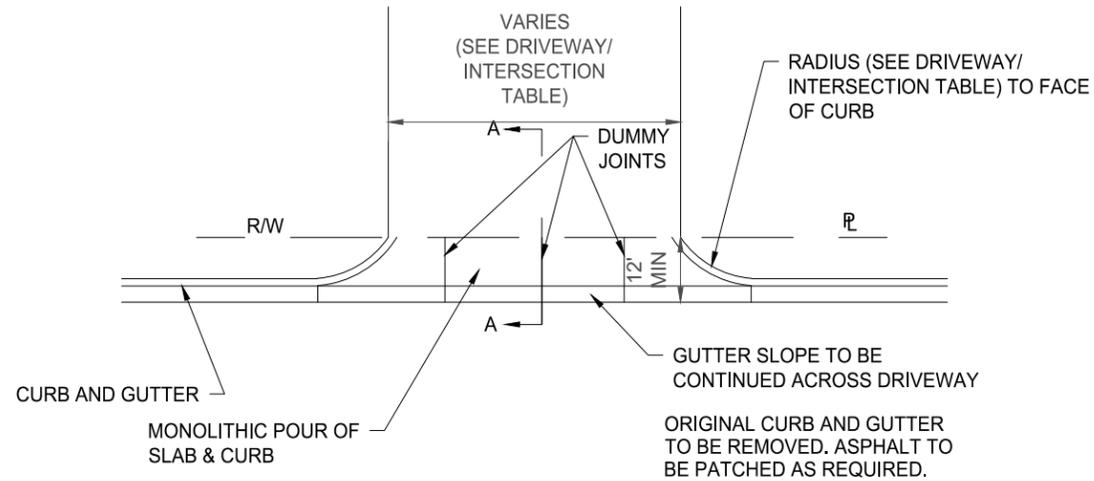
303-S.dwg December 08, 2025 1:56pm

DRIVEWAY/INTERSECTION USE	WIDTH IN FEET		MIN. RADIUS IN FEET
	MIN.	MAX.	
RESIDENTIAL DRIVEWAY (1-3 UNITS)	14	18	5' (RADIUS OR FLARE)
RESIDENTIAL STREET (TWO LANES)	20	25	30'-0"
COMMERCIAL DRIVEWAY	24	30	35'-0"
WHEN DESIGNED FOR TRUCKS	24	40	75'-0"
TWO-LANE DIVIDED DRIVEWAY	SEE DETAIL 305		30'-0"
FOUR LANE- DIVIDED PLANE	SEE DETAIL 305		30'-0"

RESIDENTIAL	COMMERCIAL
6" CONCRETE VALLEY GUTTER	8" CONCRETE VALLEY GUTTER
4" CONCRETE DRIVEWAY	8" CONCRETE DRIVEWAY

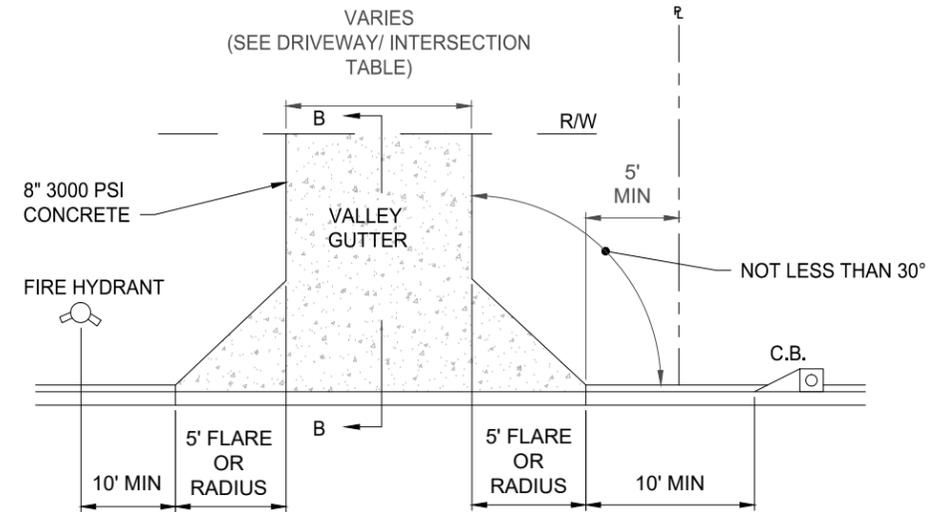
NOTES:

1. MAXIMUM DRIVEWAY GRADES SHOWN ABOVE ARE INTENDED FOR RESIDENTIAL DRIVEWAYS WHERE FLATTER GRADES ARE NOT FEASIBLE. GRADES FOR COMMERCIAL DRIVEWAYS OR FOR TRUCKS SHALL NOT BE GREATER THAN 11% UNLESS SPECIFIED OTHERWISE.
2. PUBLIC STREET INTERSECTIONS SHALL BE ASPHALT.



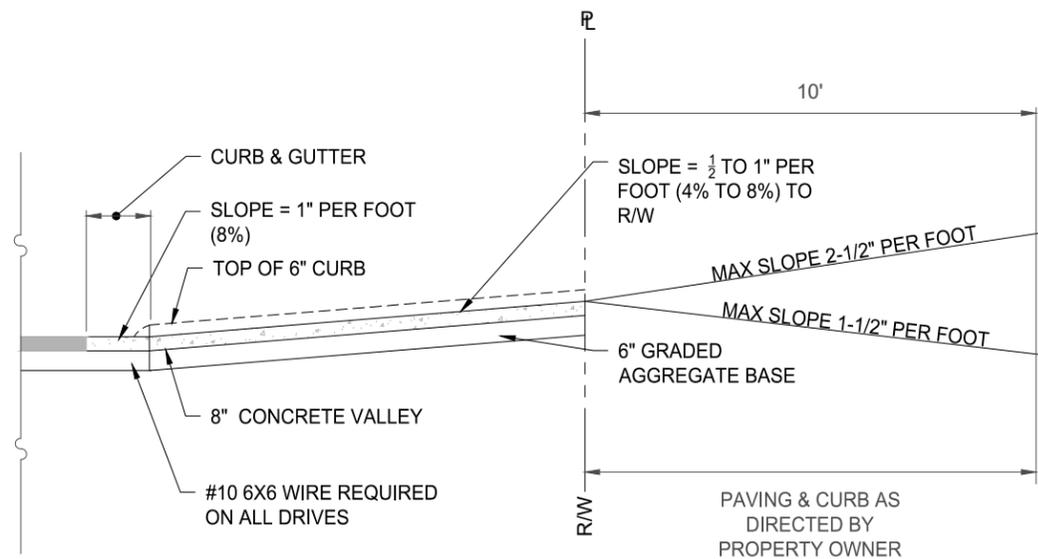
COMMERCIAL DRIVEWAY PLAN VIEW

NTS



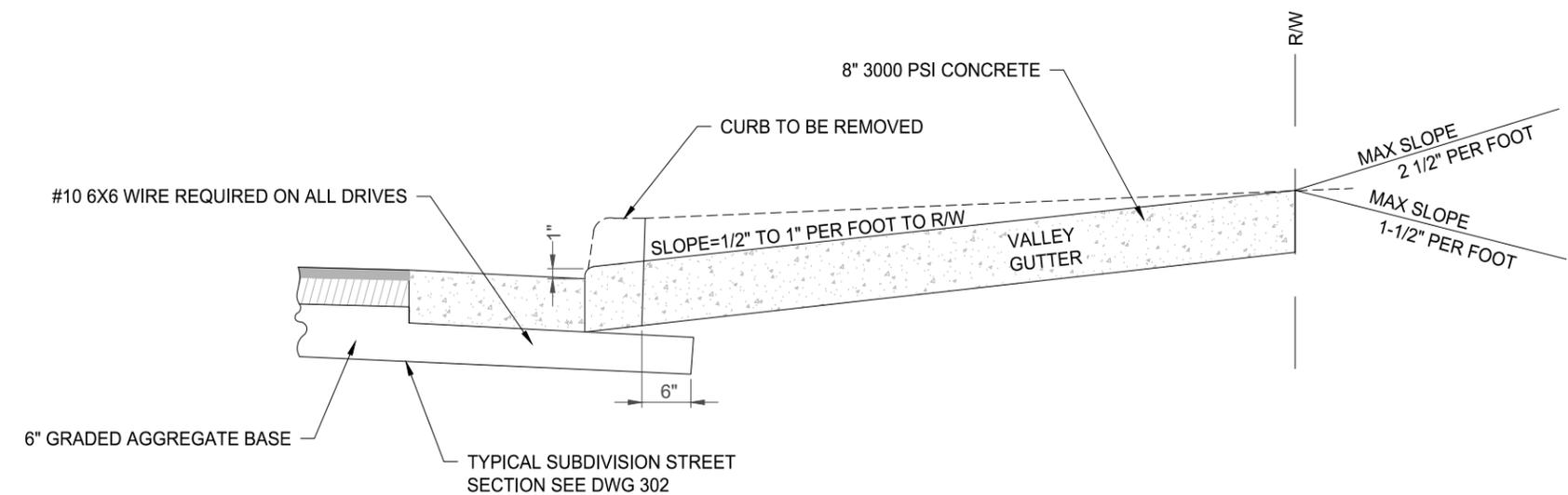
RESIDENTIAL DRIVEWAY (1-3 UNITS)

NTS



SECTION A-A

NTS



SECTION B-B

NTS

FULTON COUNTY STANDARD DETAIL 304

DRIVEWAY DETAILS

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
 APPROVED: TM
 DATE: 01-21-2026



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DRAWING NO.

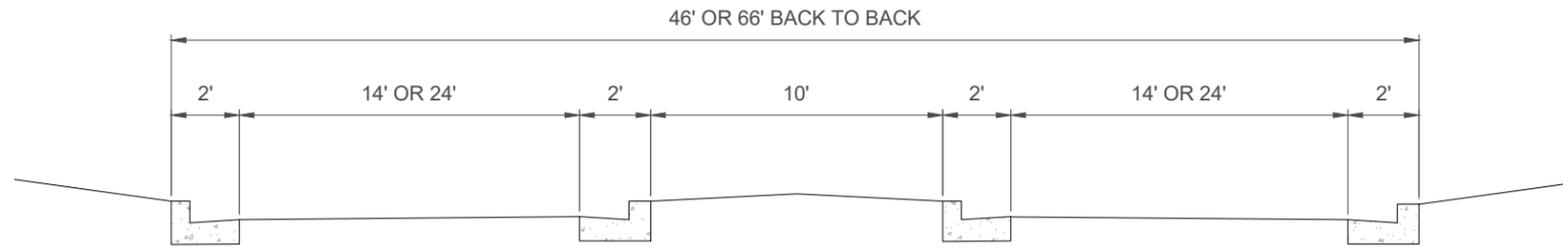
304

TABLE 305-1 DRIVEWAY/INTERSECTION			
DRIVEWAY/INTERSECTION USE	WIDTH IN FEET		MIN. RADIUS IN FEET
	MIN.	MAX.	
RESIDENTIAL DRIVEWAY (1-3 UNITS)	14	18	5' (RADIUS OR FLARE)
RESIDENTIAL STREET (TWO LANES)	20	25	30'-0"
COMMERCIAL DRIVEWAY	24	30	35'-0"
WHEN DESIGNED FOR TRUCKS	24	40	75'-0"
TWO-LANE DIVIDED DRIVEWAY	46	66	30'-0"
FOUR-LANE DIVIDED DRIVEWAY	46	66	30'-0"

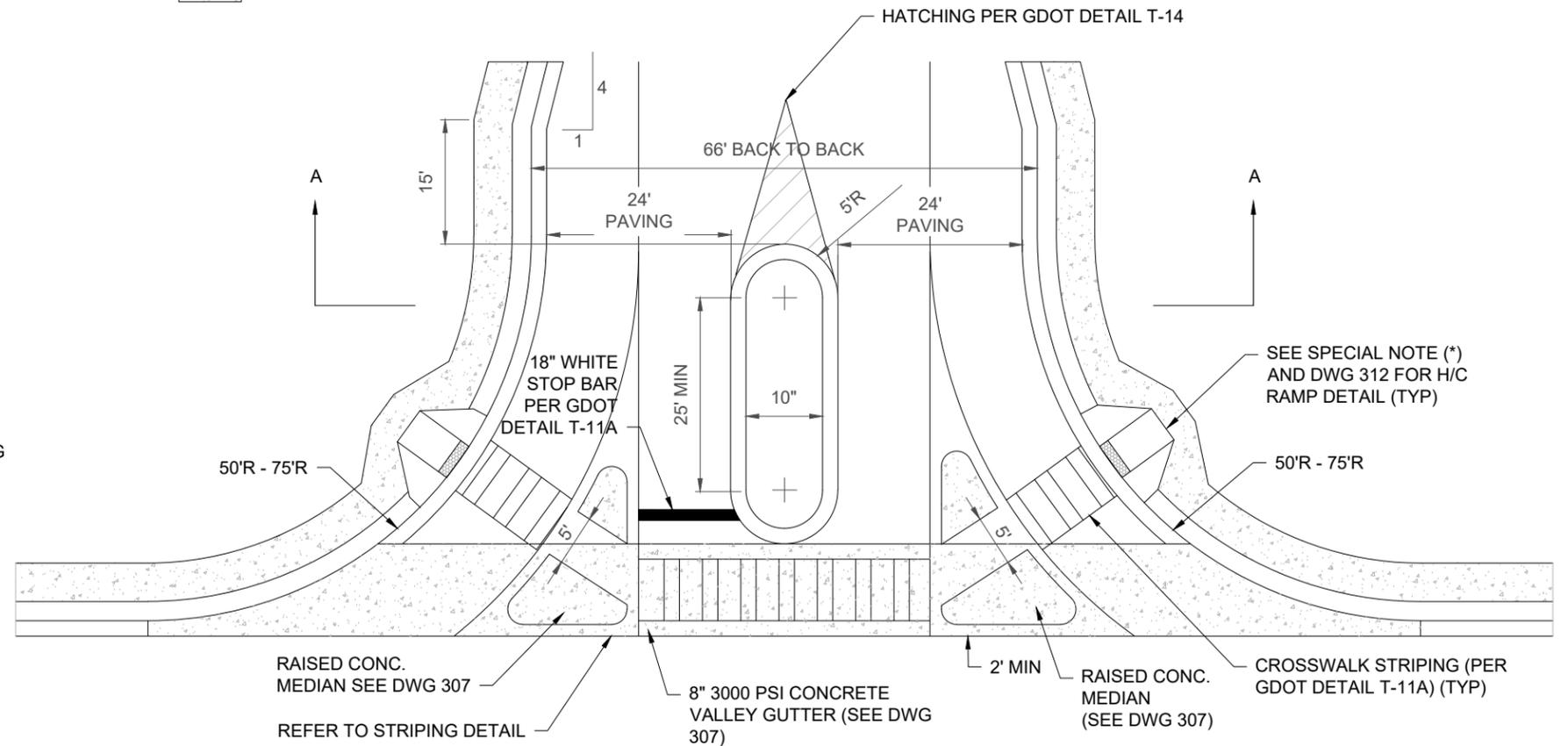
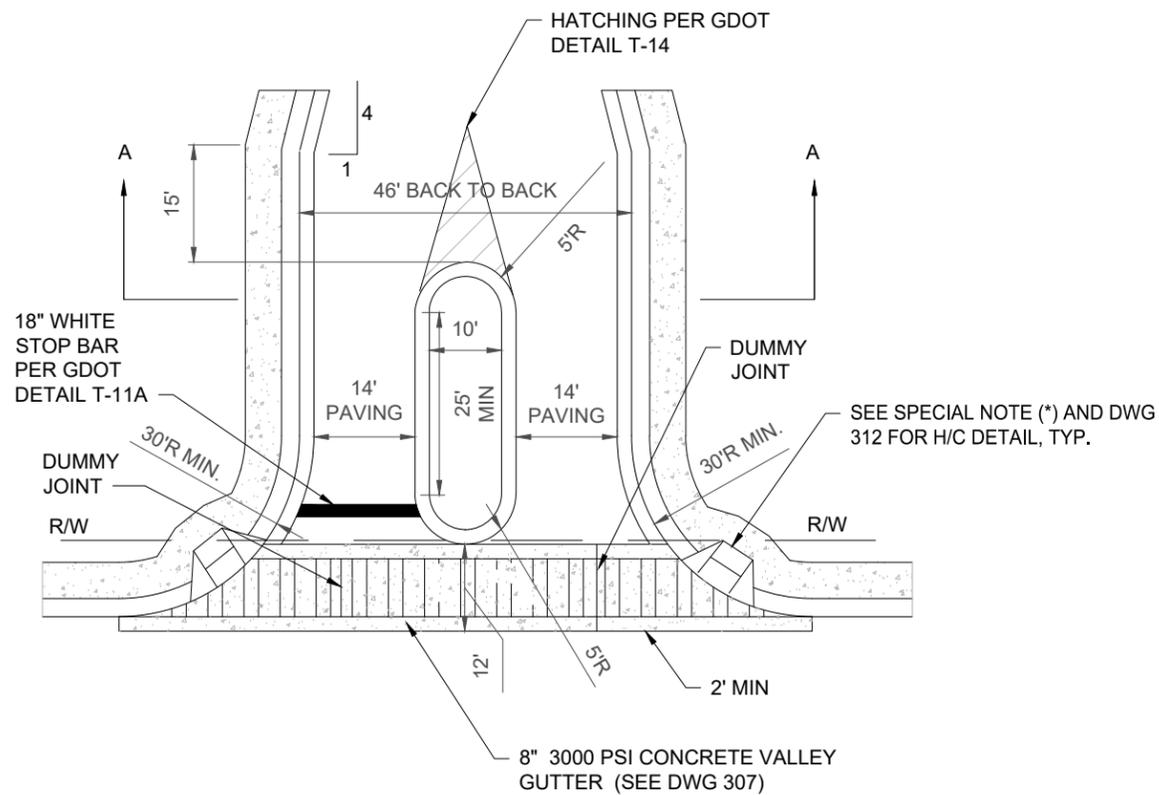
TABLE 305-2 CONCRETE DRIVES	
RESIDENTIAL	COMMERCIAL
6" CONCRETE VALLEY GUTTER	8" CONCRETE VALLEY GUTTER
4" CONCRETE VALLEY	8" CONCRETE DRIVEWAY

NOTES:

- PUBLIC STREET INTERSECTIONS SHALL BE ASPHALT.
- ALL STRIPING MUST BE DONE ACCORDING TO THE LATEST MUTCD STANDARDS.
- ALL STRIPING DESIGNS TO BE APPROVED BY COUNTY ENGINEER/INSPECTOR.
- FOR CURB RAMP WITH DETECTABLE WARNING: DETECTABLE WARNING SHALL BE 24 INCHES IN THE DIRECTION OF PEDESTRIAN TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE. REFER TO GDOT STANDARD SHEET A4 FOR INSTALLATION INSTRUCTIONS.



SECTION A-A
NTS



OPTIONAL DIVIDED ENTRANCE
(PRIVATE OR COMMERCIAL)
NTS

FULTON COUNTY STANDARD DETAIL 305
DIVIDED ENTRANCE DETAILS

DATE	REVISIONS	DATE	REVISIONS

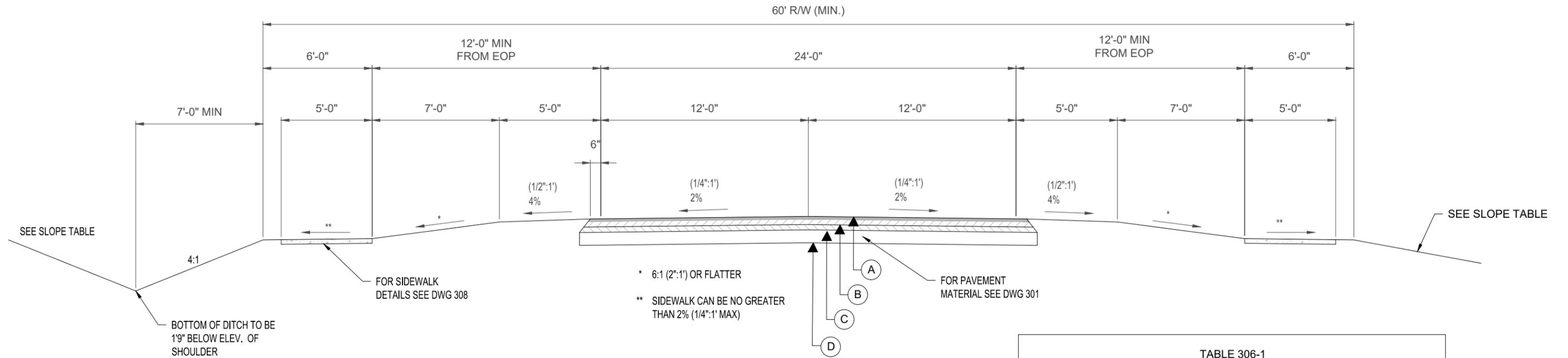
DGS/DRN/CHKD: MB/EB/ML
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305

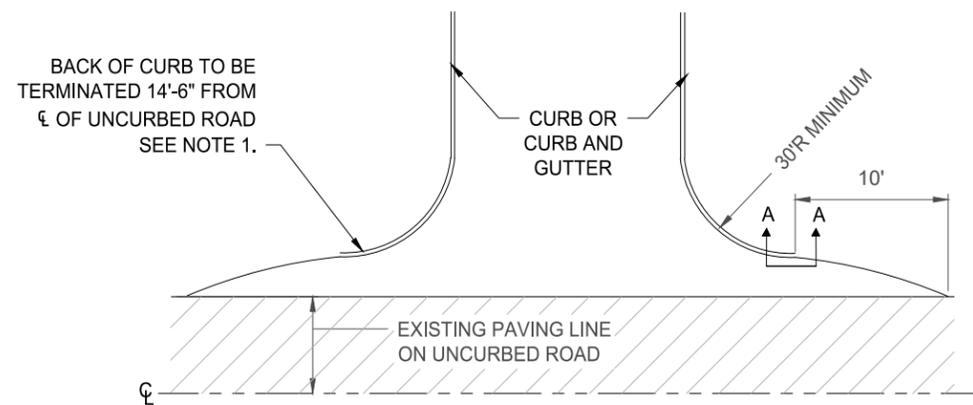
NOTE 1:
IF EXISTING UNCURBED ROAD IS WIDER THAN 29', THE
DIMENSION IS TO BE 6'-6" FROM EXISTING EDGE OF PAVEMENT.



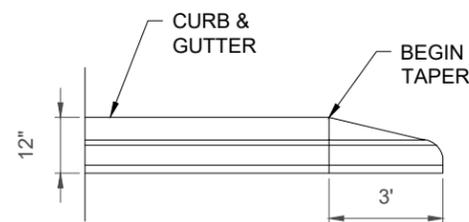
**COUNTY ROADS, NOT
CURBED WITH SIDEWALK**
NTS

TABLE 306-1 COUNTY ROADS	
(A)	ASPHALT, CONCRETE 9.5 mm SUPERPAVE, 165 LB/YD ²
(B)	ASPHALT, CONCRETE 19 mm SUPERPAVE, 220 LB/YD ²
(C)	ASPHALT, CONCRETE 25 MM SUPERPAVE, 300 LB/YD ²
(D)	GRADED AGGREGATE BASE (CRUSHER RUN) 8"

****TACK COAT (CRS2H, SS1 or AC30) TO BE USED AS REQUIRED
****PRIME COAT (RC70) TO BE USED AS REQUIRED



**INTERSECTION OF CURBED
AND UNCURBED ROADS
WITH NO TURN LANES**
NTS



SECTION A-A
NTS

TABLE 306-2 SLOPE TABLE			
CUT SLOPE		FILL SLOPE	
0' - 5'	5' OR MORE	0' - 5'	5' OR MORE
4:1	2:1	4:1	2:1

FULTON COUNTY STANDARD DETAIL 306
MISCELLANEOUS DETAILS

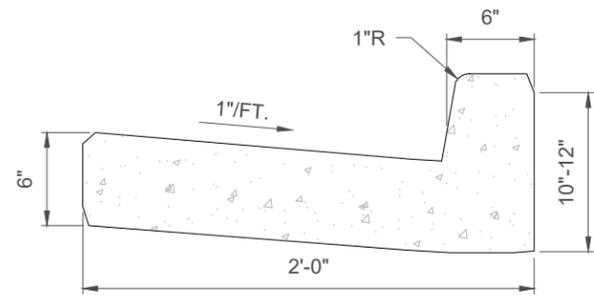
DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026



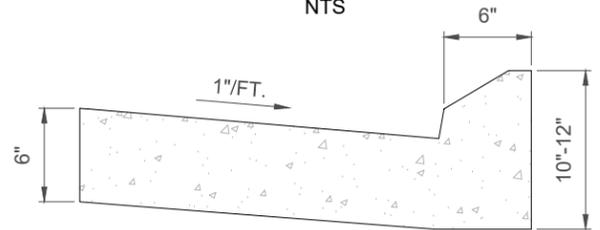
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306



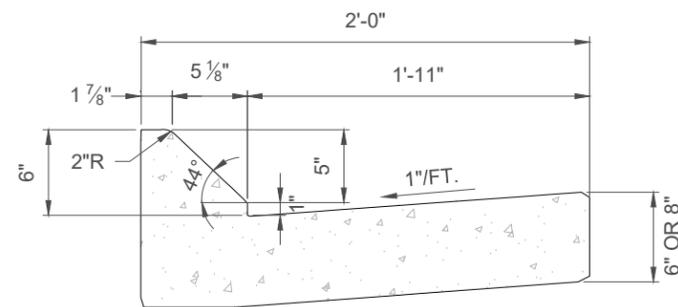
TYPE 1 CONCRETE CURB & GUTTER
INDUSTRIAL ROAD

NTS



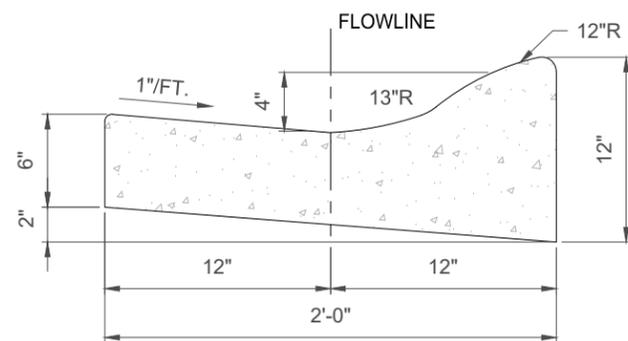
TYPE 2 CONCRETE CURB & GUTTER
MAJOR & MINOR RESIDENTIAL SIDE STREETS
ONLY

NTS



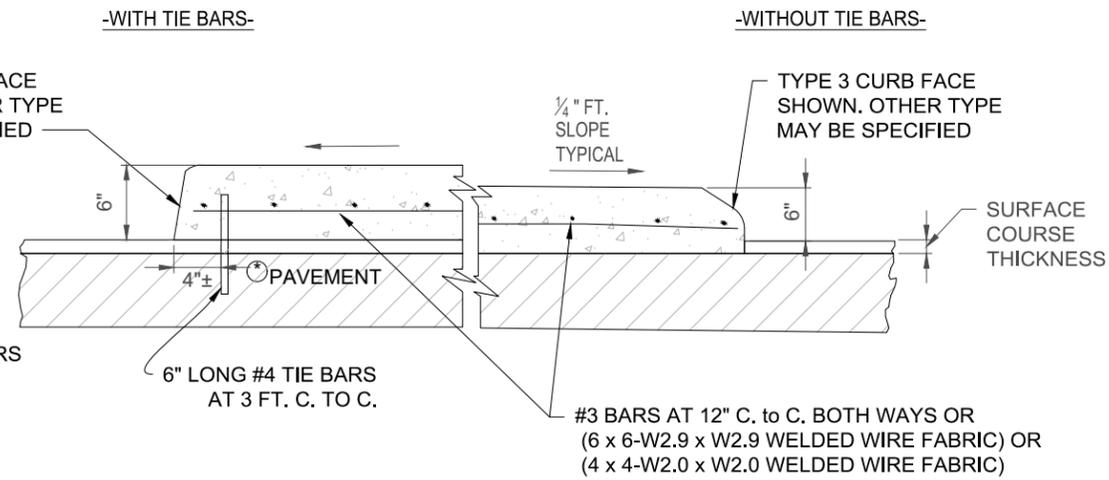
TYPE 3 MOUNTABLE CURB & GUTTER

NTS



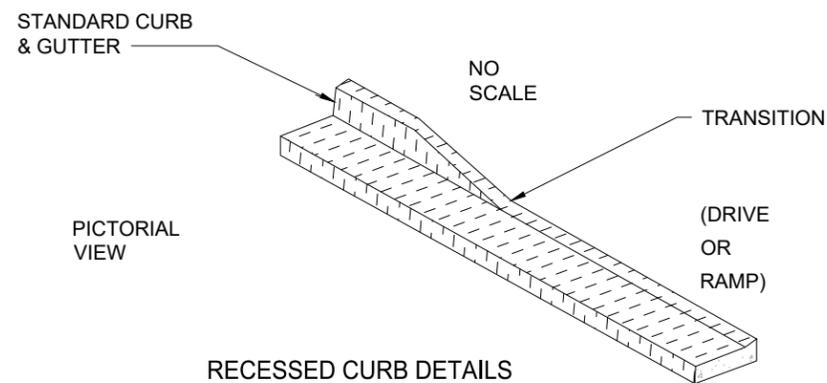
TYPE 4 CONCRETE ROLLED CURB & GUTTER

NTS



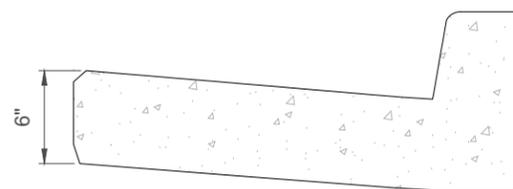
CONCRETE MEDIANS (ISLAND)

NTS



RECESSED CURB DETAILS
TYPICAL USE: AT DRIVEWAYS
OR CURB CUT RAMPS

NTS



SECTION VIEW

NTS

NOTES:

1. IF CONCRETE MEDIAN INTERCEPTS PEDESTRIAN CROSSWALKS, HANDICAP RAMPS (SEE DWG 312) WILL BE REQUIRED.
2. CURB & GUTTER WILL BE MEASURED FOR PAYMENT THRU THE DRIVE OR RAMP OPENING.
3. CONCRETE PAVEMENT: TIE BARS WILL BE PLACED AFTER FINISHING AND BEFORE INITIAL SET HAS TAKEN PLACE.
4. ASPHALT PAVEMENT: TIE BARS MAY BE DRIVEN IN OR DRILLED AND GROUTED.

FULTON COUNTY STANDARD DETAIL 307

CURB & GUTTER DETAILS

DATE	REVISIONS	DATE	REVISIONS

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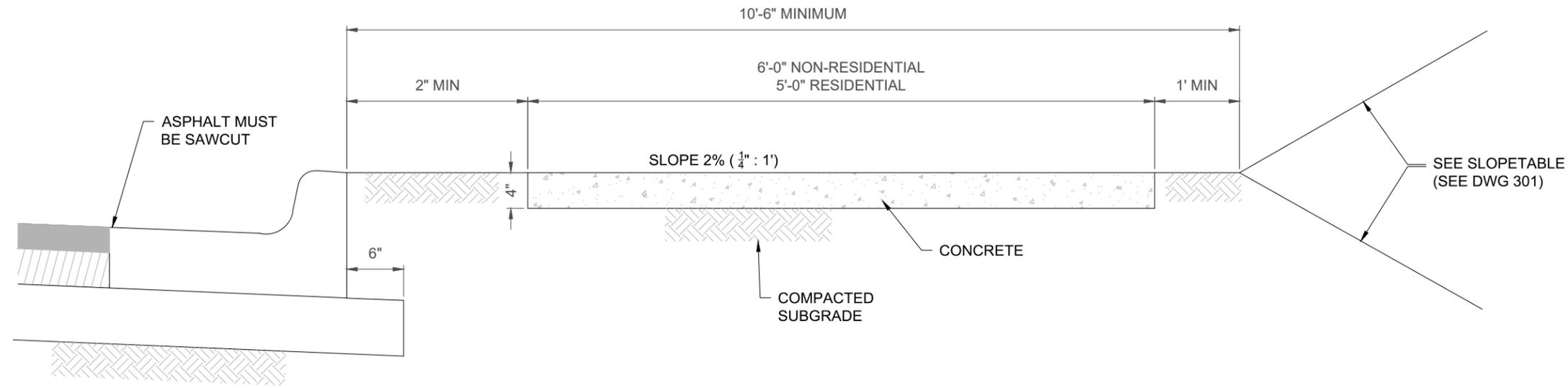
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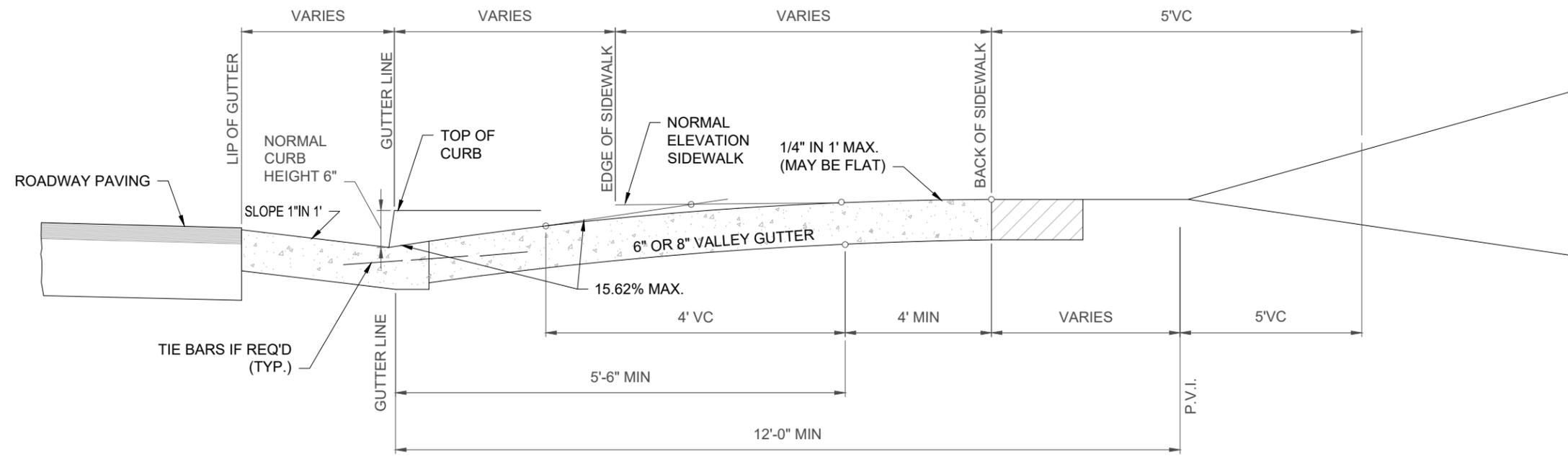
307

NOTES:

1. USE 3/8" x 4" EXPANSION JOINTS AT CHANGE OF DIRECTIONS, CURBS, RIGID STRUCTURES AND RIGID PAVEMENT. ON STRAIGHT RUNS PROVIDE EXPANSION JOINTS EVERY 24 FEET.
2. TOOL ALL EXPOSED EDGES AND JOINTS TO 1/4" RADIUS.
3. BROOM FINISH PERPENDICULAR TO TRAVEL.
4. PROVIDE 3/4" DEEP SAW CUT CONTRACTION JOINTS EVERY 5'-0".
5. ZONING OVERLAY REQUIREMENTS MAY SUPERCEDE STANDARD DETAIL.



TYPICAL SECTION OF SIDEWALK
NTS



SECTION AT CENTERLINE OF DRIVEWAY
NTS

FULTON COUNTY STANDARD DETAIL 308
STANDARD SIDEWALK SECTION

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026



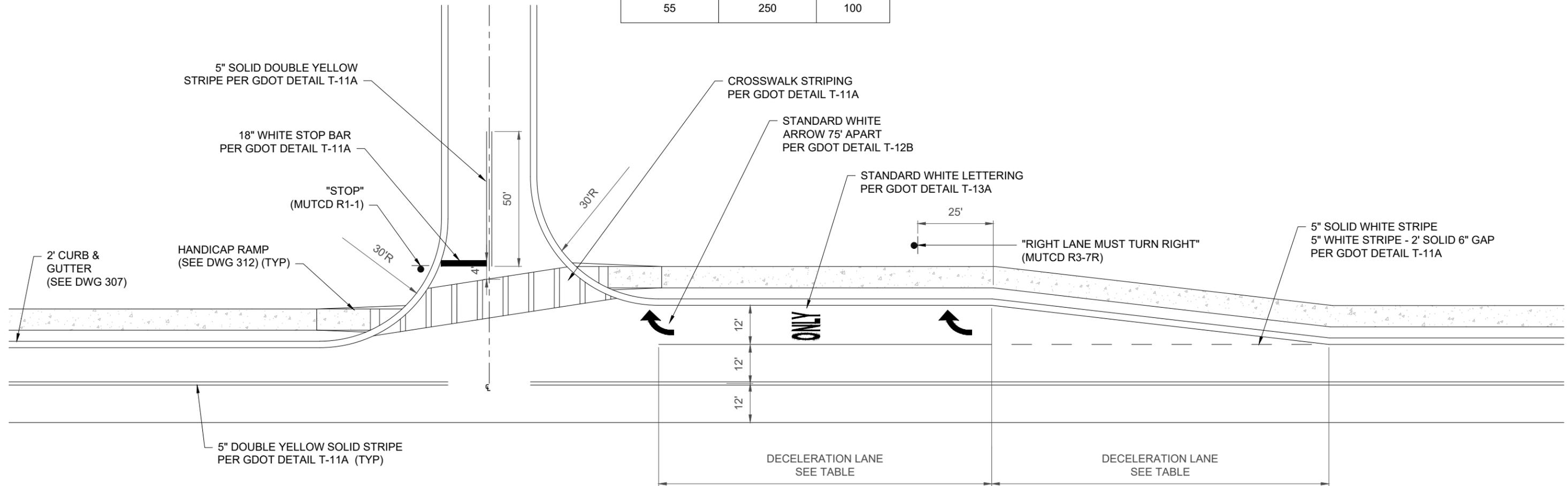
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DRAWING NO.
308

NOTES:

1. ALL STRIPING MUST BE DONE IN THERMOPLASTIC PER LATEST MUTCD STANDARDS.
2. CONTACT FULTON COUNTY DEPT. OF PUBLIC WORKS, THREE (3) WORKING DAYS PRIOR TO STRIPING FOR INSPECTION OF LAYOUT.
3. STRIPING LAYOUT IS SUBJECT TO FIELD MODIFICATION PER THE FIELD INSPECTION.
4. SEE SIGN INSTALLATION DETAIL DWG 322 A/B/C.

TABLE 309-1 LANE LENGTHS		
POSTED SPEED LIMIT (MPH)	DECELERATION LANE LENGTH (FT)	TAPER LENGTH (FT)
35	100	50
40	150	50
45	175	100
50	225	100
55	250	100



FULTON COUNTY STANDARD DETAIL 309

TYPICAL SECTION TWO LANE ROAD
DECELERATION LANE

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
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 DATE: 01-21-2026



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DRAWING NO.

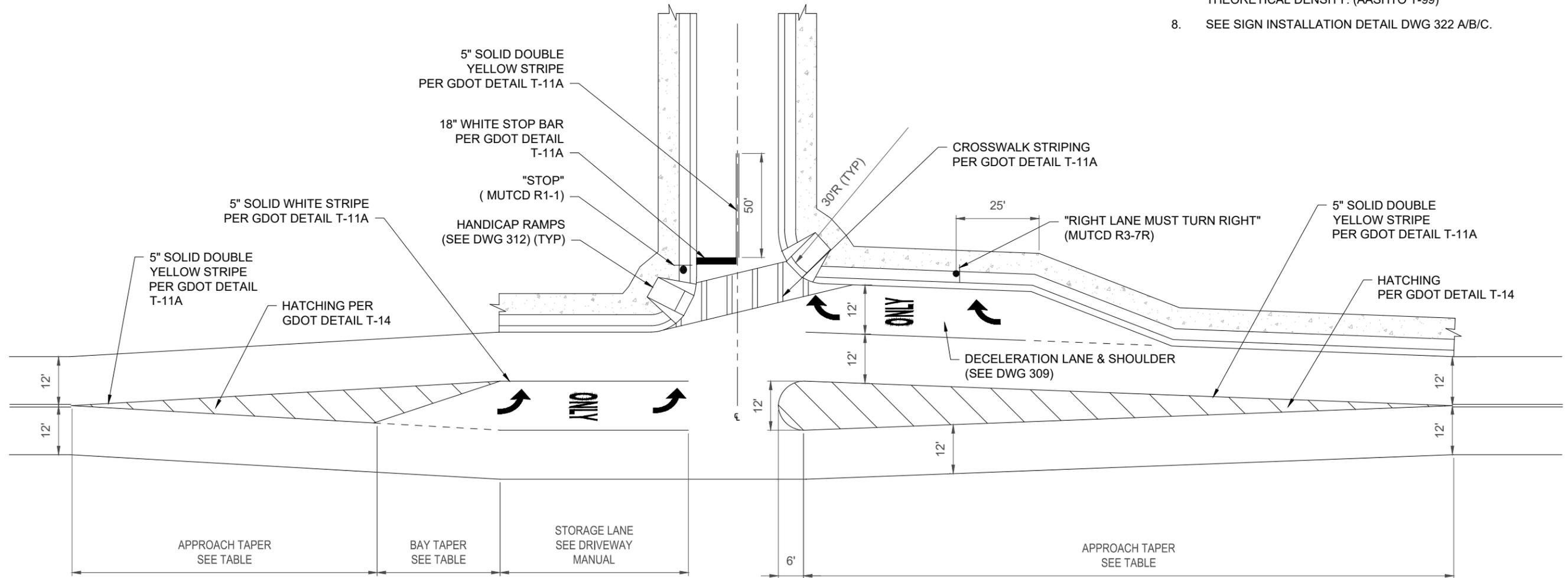
309

310-S.dwg December 08, 2025 1:56pm

POSTED SPEED LIMIT (MPH)	APPROACH TAPER 6' SHIFT LENGTH (FT)	BAY TAPER LENGTH (FT)	STORAGE LANE LENGTH (FT)
35	125	50	95-190
40	160	50	95-190
45	270	100	95-210
50	300	100	95-210
55	330	100	95-210

NOTES:

- LEFT STORAGE TURN LANE LENGTH TO BE IN ACCORDANCE WITH TABLE 14 OF THE FULTON COUNTY DRIVEWAY MANUAL.
- ALL STRIPING MUST BE DONE IN THERMOPLASTIC PER LATEST MUTCD STANDARDS.
- CONTACT FULTON COUNTY DEPT. OF PUBLIC WORKS, THREE (3) WORKING DAYS PRIOR TO STRIPING FOR INSPECTION OF LAYOUT.
- STRIPING LAYOUT IS SUBJECT TO FIELD MODIFICATION PER THE FIELD INSPECTION.
- ON EXISTING PAVEMENTS WHERE LANE WIDENING IS REQUIRED. SAW CUT THE FIRST 12 INCHES OF PAVEMENT AND ESTABLISH REQUIRED SUB-GRADE MATERIAL AND THICKNESS.
- NEW PAVEMENT IS REQUIRED ACROSS THE ENTIRE LENGTH AND WIDTH OF ALL PROPERTY FRONTAGE AND INSTALLED AS PER FULTON COUNTY INSPECTORS INSTRUCTIONS.
- SUBGRADE TO BE COMPACTED TO 95% OF MAXIMUM THEORETICAL DENSITY. (AASHTO T-99)
- SEE SIGN INSTALLATION DETAIL DWG 322 A/B/C.

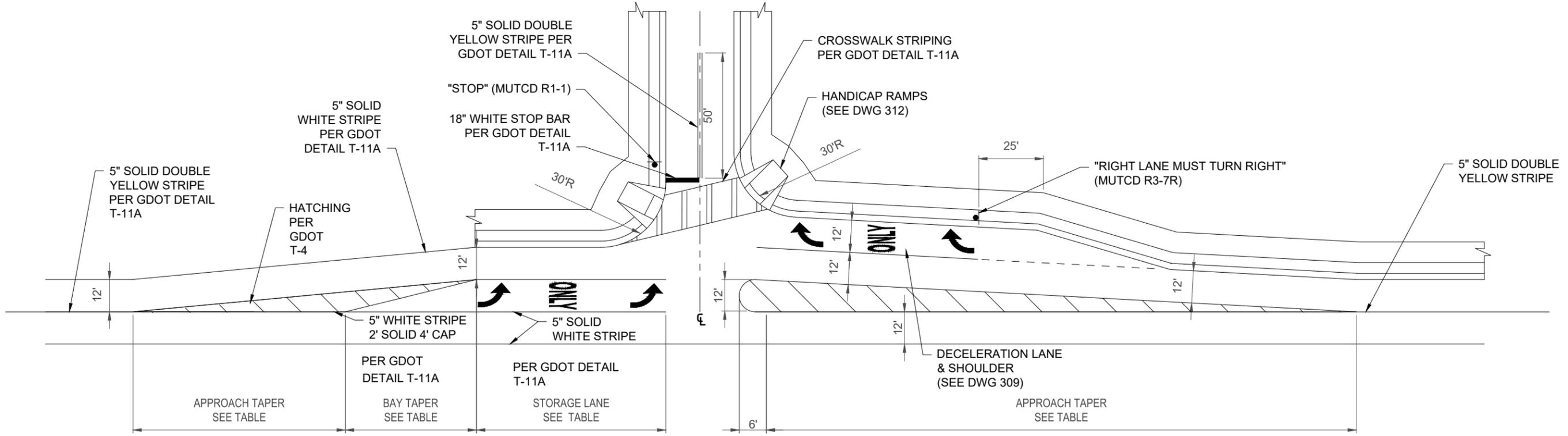


FULTON COUNTY STANDARD DETAIL 310 LEFT TURN LANE WITH WIDENING ON BOTH SIDES		DATE	REVISIONS	DATE	REVISIONS		 FULTON COUNTY FULTON COUNTY PUBLIC WORKS 141 PRYOR ST. ATLANTA, GA. 30303 404-612-7400 FAX: 404-224-0498	DRAWING NO. 310
						DGS/DRN/CHKD: MB/EB/ML		
						APPROVED: TM		
						DATE: 01-21-2026		

POSTED SPEED LIMIT (MPH)	APPROACH TAPER 12' SHIFT LENGTH (FT)	BAY TAPER LENGTH (FT)	STORAGE LANE LENGTH (FT)
35	250	50	95-190
40	320	50	95-190
45	540	100	95-210
50	600	100	95-210
55	660	100	95-210

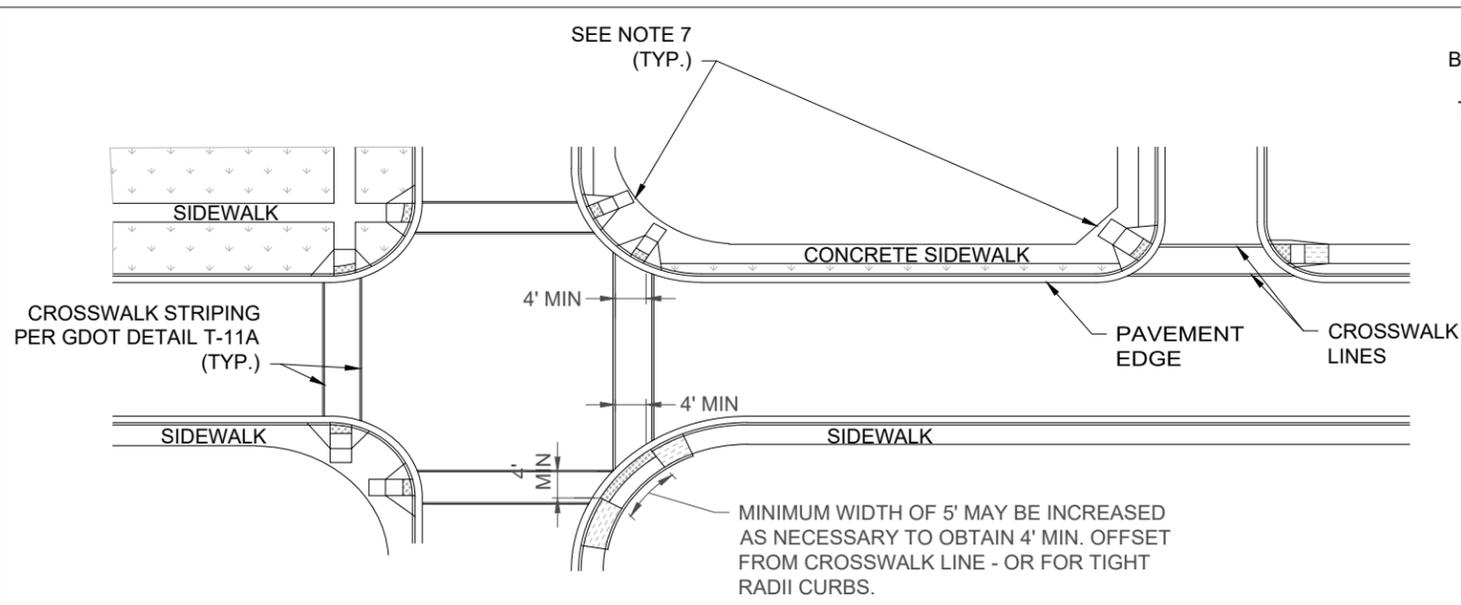
NOTES:

- LEFT STORAGE TURN LANE LENGTH TO BE IN ACCORDANCE WITH TABLE 14 OF THE FULTON COUNTY DRIVEWAY MANUAL.
- ALL STRIPING MUST BE DONE IN THERMOPLASTIC PER LATEST MUTCD STANDARDS.
- CONTACT FULTON COUNTY DEPT. OF PUBLIC WORKS, THREE (3) WORKING DAYS PRIOR TO STRIPING FOR INSPECTION OF LAYOUT.
- STRIPING LAYOUT IS SUBJECT TO FIELD MODIFICATION PER THE FIELD INSPECTION.
- ON EXISTING PAVEMENTS WHERE LANE WIDENING IS REQUIRED. SAW CUT THE FIRST 12 INCHES OF PAVEMENT AND ESTABLISH REQUIRED SUB-GRADE MATERIAL AND THICKNESS.
- NEW PAVEMENT IS REQUIRED ACROSS THE ENTIRE LENGTH AND WIDTH OF ALL PROPERTY FRONTAGE AND INSTALLED AS PER FULTON COUNTY INSPECTORS INSTRUCTIONS.
- SUBGRADE TO BE COMPACTED TO 95% OF MAXIMUM THEORETICAL DENSITY. (AASHTO T-99)
- SEE SIGN INSTALLATION DETAIL DWG 322 A/B/C.

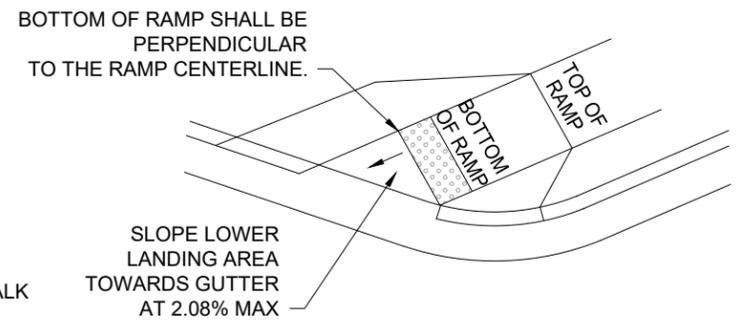


311-S.dwg December 08, 2025 1:57pm

FULTON COUNTY STANDARD DETAIL 311 LEFT TURN LANE WITH WIDENING ON ONE SIDE		DATE	REVISIONS	DATE	REVISIONS		 FULTON COUNTY	FULTON COUNTY PUBLIC WORKS 141 PRYOR ST. ATLANTA, GA. 30303 404-612-7400 FAX: 404-224-0498	DRAWING NO. 311
						DGS/DRN/CHKD: MB/EB/ML			
						APPROVED: TM			
						DATE: 01-21-2026			



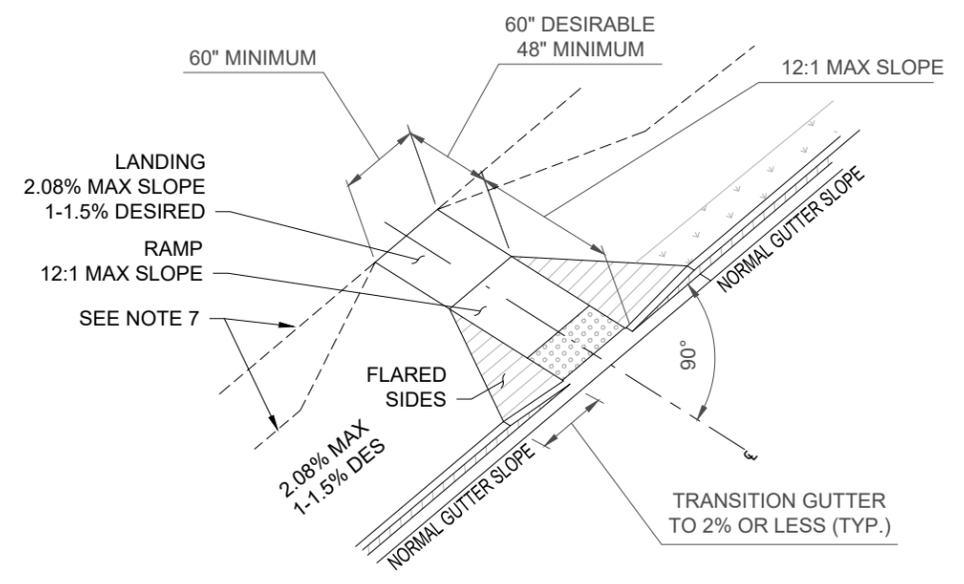
TYPICAL LOCATIONS FOR CURB CUT RAMPS - PLAN VIEW
NTS



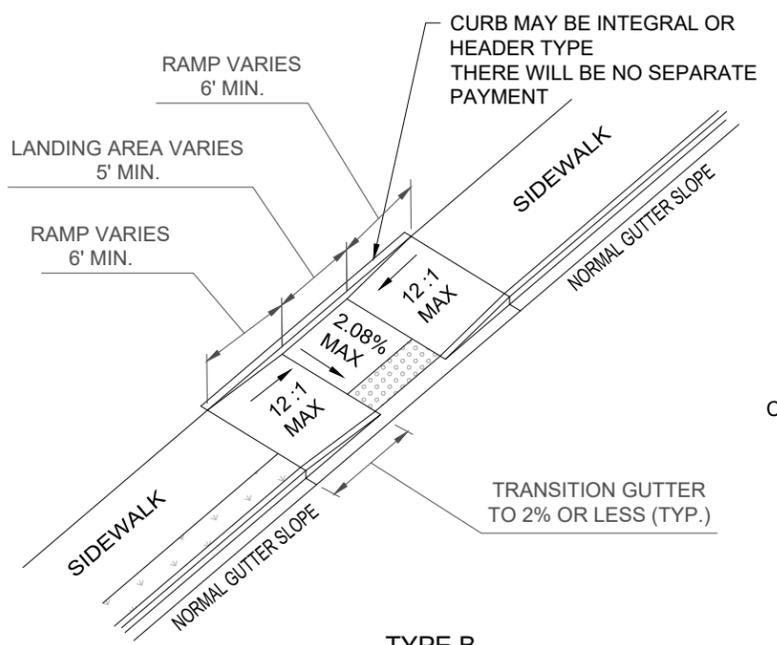
SKewed RAMP DETAILS
(APPLIES TO TYPE A & TYPE D RAMPS ONLY)
NTS

NOTES:

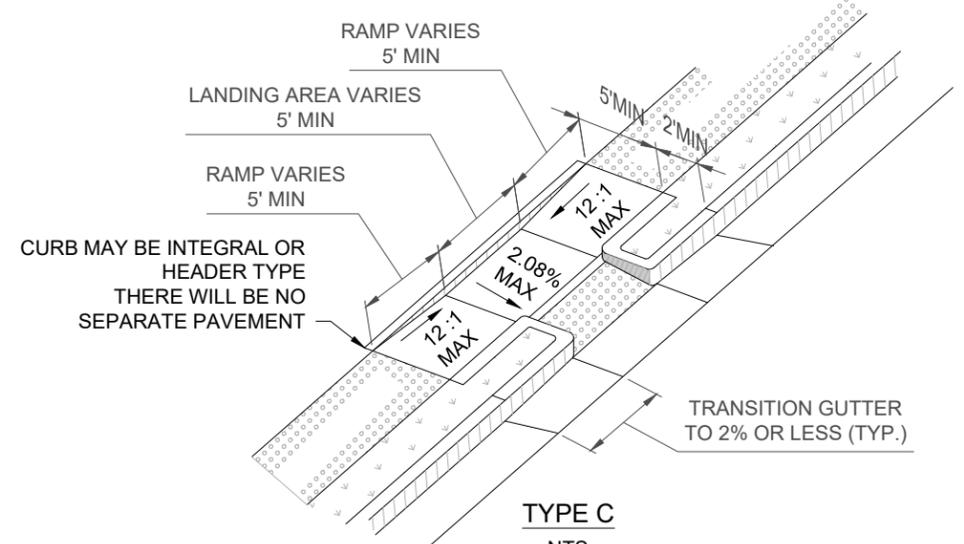
1. THE RAMP LENGTH IS NOT REQUIRED TO EXCEED 15 FEET. THE RAMP SLOPE MAY EXCEED 12:1 IF THE SITE CONDITIONS PREVENT THE USE OF A RAMP 15 FEET LONG.
2. IN AREAS WHERE THE GUTTER HAS A SLOPE 1" IN 1' END NORMAL GUTTER SLOPE AT A DISTANCE OF 6 TO 10 FEET FROM THE RAMP AND BEGIN TRANSITION TO A FLAT GUTTER SLOPE. NORMAL GUTTER SLOPE SHALL BE RESUMED AT A SIMILAR DISTANCE BEYOND THE RAMP.
3. TYPE A IS THE PREFERRED RAMP STYLE.
4. TYPE B RAMPS ARE NORMALLY USED WHEN SPACE IS NOT AVAILABLE FOR A LANDING AT THE TOP OF A TYPE A RAMP.
5. TYPE D RAMPS ARE NORMALLY USED WHEN THE SIDEWALK TIES DIRECTLY INTO THE CROSSWALK.
6. WHEN THE RAMP CENTERLINE IS NOT PERPENDICULAR TO THE CURB A LEVEL LANDING AREA WITH SLOPES LESS THAN 2.08% MUST BE PROVIDED AT THE BOTTOM OF THE RAMP.
7. BACK OF SIDEWALK SHALL BE LOCATED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER SO AS NOT TO ENCROACH INTO THE REQUIRED LANDING AREA.



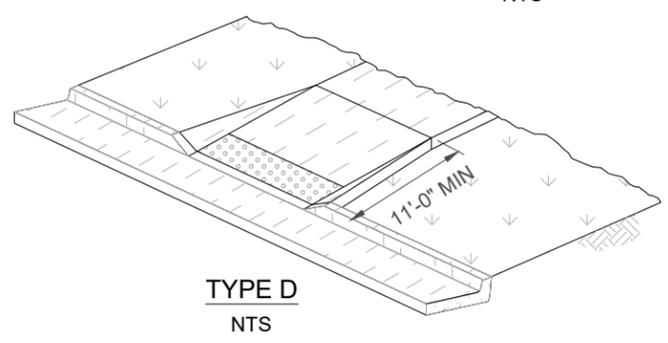
TYPE A (THE PREFERRED RAMP)
NTS



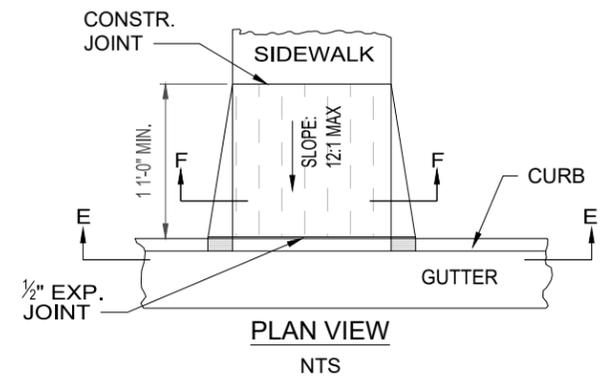
TYPE B
NTS



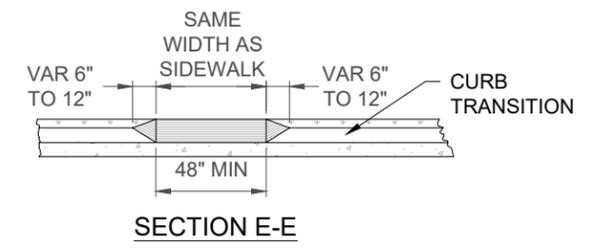
TYPE C
NTS



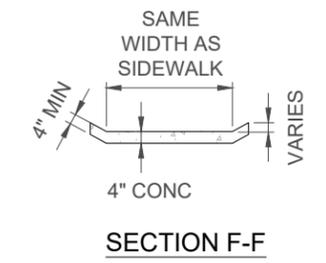
TYPE D
NTS



PLAN VIEW
NTS



SECTION E-E



SECTION F-F

FULTON COUNTY STANDARD DETAIL 312
HANDICAP RAMP DETAILS

DATE	REVISIONS	DATE	REVISIONS

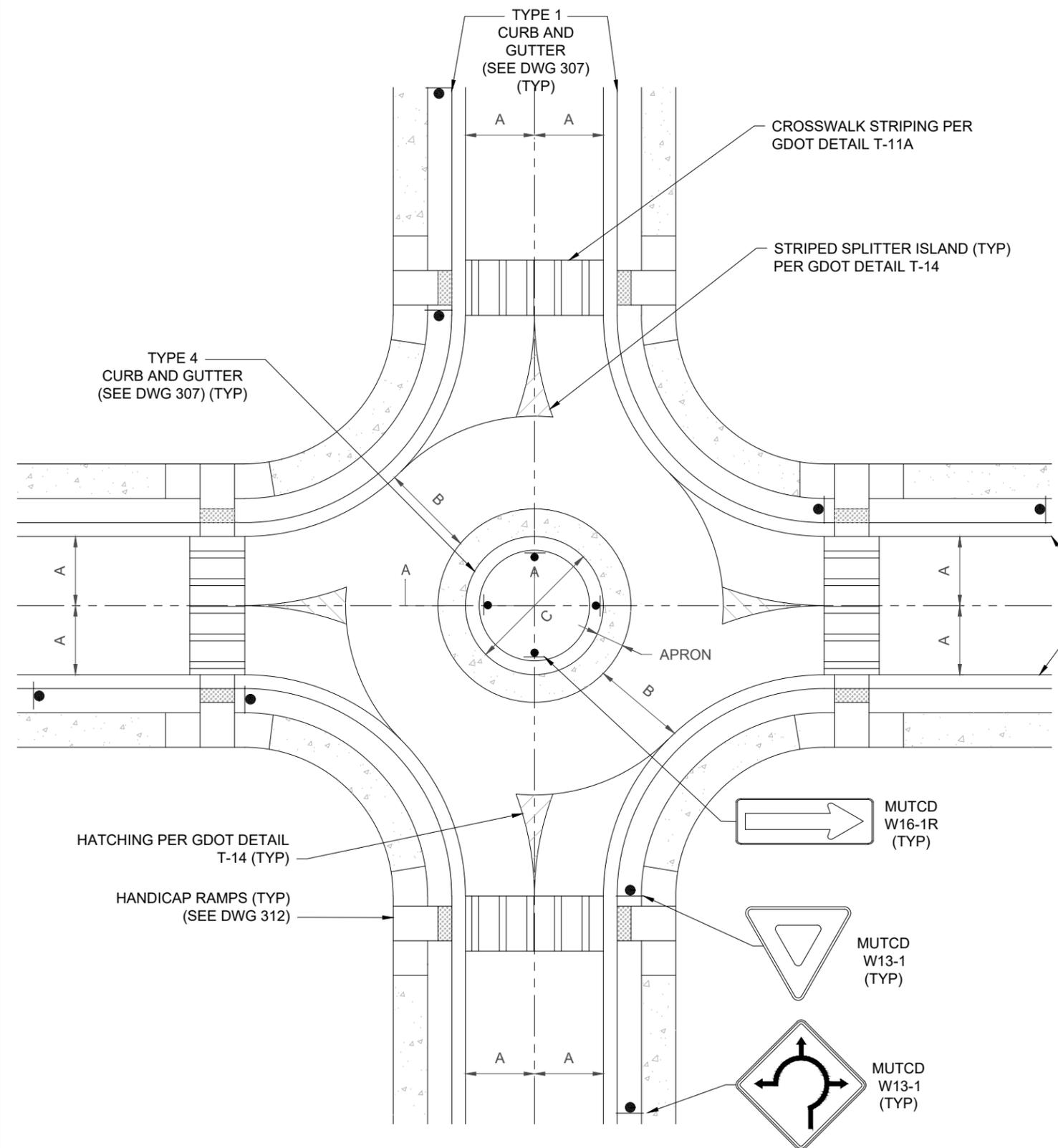
DGS/DRN/CHKD: MB/EB/ML
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DRAWING NO.
312

313-S.dwg December 08, 2025 1:57pm

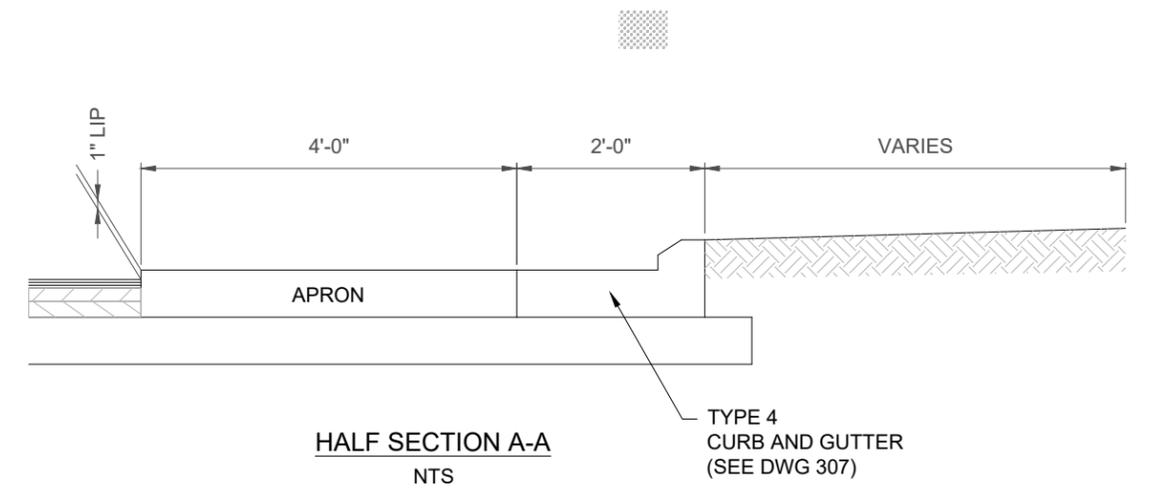


**TABLE 313-1
MINI ROUNDABOUT DIMENSIONS**

	18' ROAD WIDTH	20' ROAD WIDTH	25' ROAD WIDTH
A	9'-0"	10'-0"	12'-6"
B	12'-1 13/16"	12'-6 3/4"	14'-1 3/16"
C	26' D	28' D	32' D

NOTES:

1. APRON TO BE 4' WIDE, 6" THICK 3000 PSI CONCRETE PAVEMENT.
2. ALL STRIPING MUST BE DONE IN THERMOPLASTIC PER LATEST MUTCD STANDARDS.
3. CONTACT FULTON COUNTY DEPT. OF PUBLIC WORKS AND 1 WEEK PRIOR TO STRIPING FOR INSPECTION OF LAYOUT.
4. STRIPING LAYOUT IS SUBJECT TO FIELD MODIFICATION PER THE FIELD INSPECTION.
5. SEE SIGN INSTALLATION DETAIL AND DWG 322 A/B/C.



**FULTON COUNTY STANDARD DETAIL 313
MINI ROUNDABOUT**

DATE	REVISIONS	DATE	REVISIONS

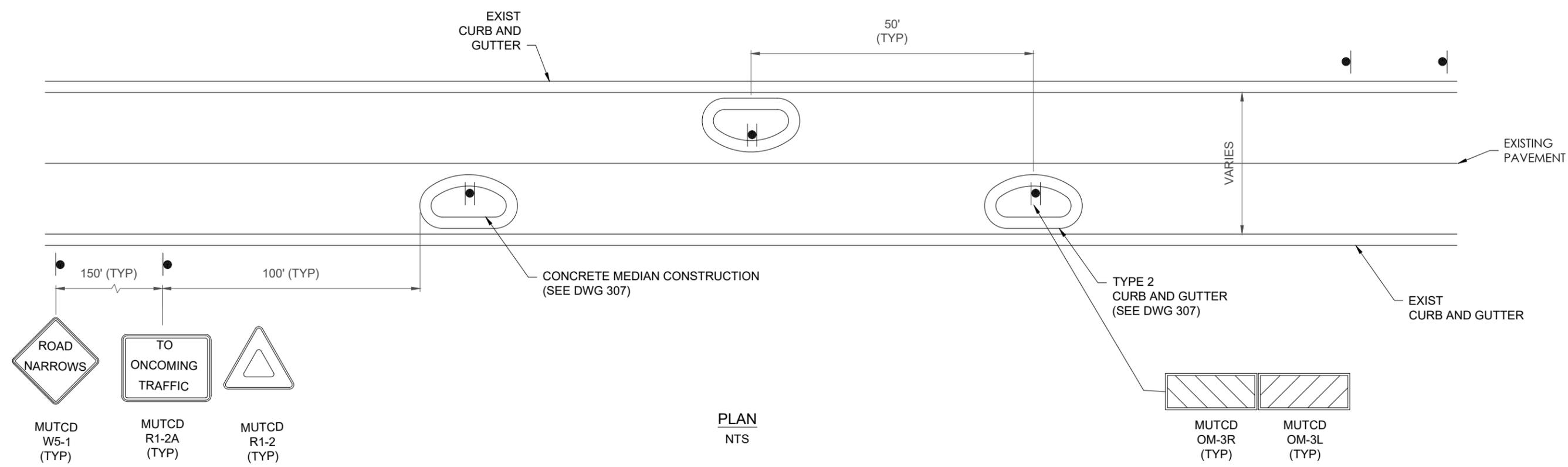
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 APPROVED: TM
 DATE: 01-21-2026



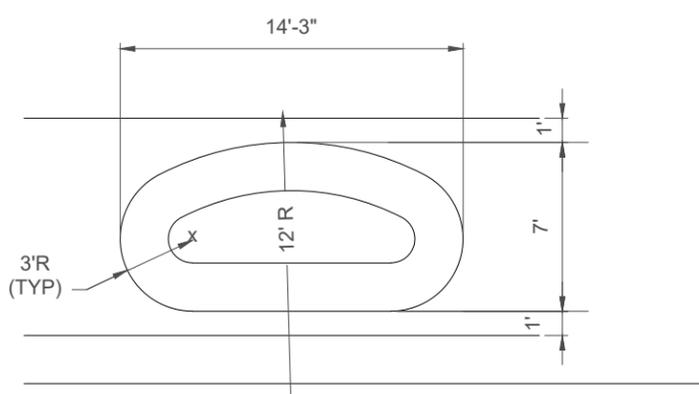
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DRAWING NO.
313

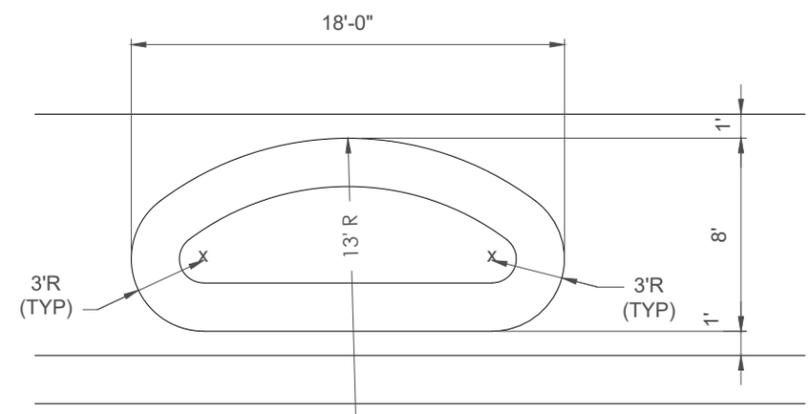
NOTES:
1. SEE DWG 322 A/B/C FOR SIGN INSTALLATION DETAILS.



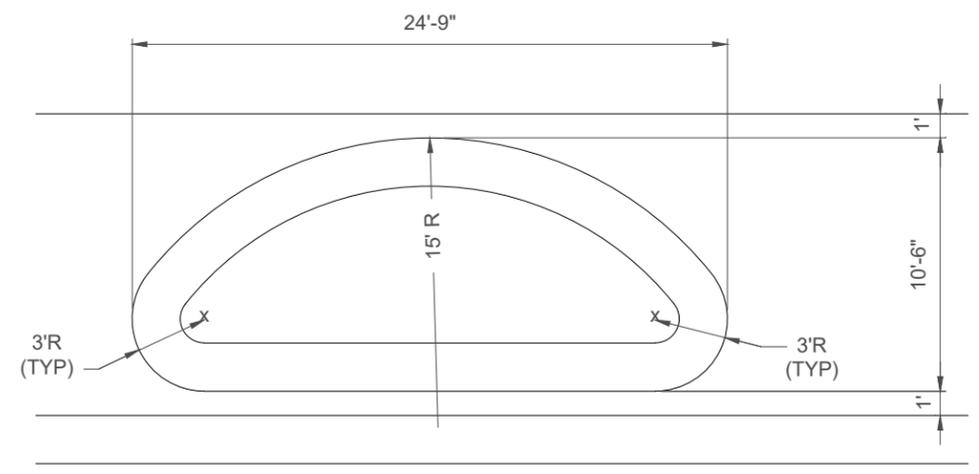
PLAN
NTS



EXIST 18' ROAD WIDTH
NTS



EXIST 20' ROAD WIDTH
NTS



EXIST 25' ROAD WIDTH
NTS

314-S.dwg December 08, 2025 1:57pm

FULTON COUNTY STANDARD DETAIL 314
CHICANES

DATE	REVISIONS	DATE	REVISIONS

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DATE: 01-21-2026



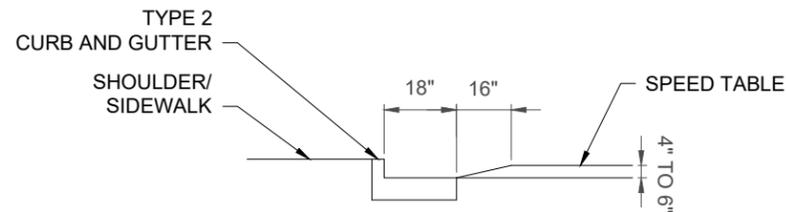
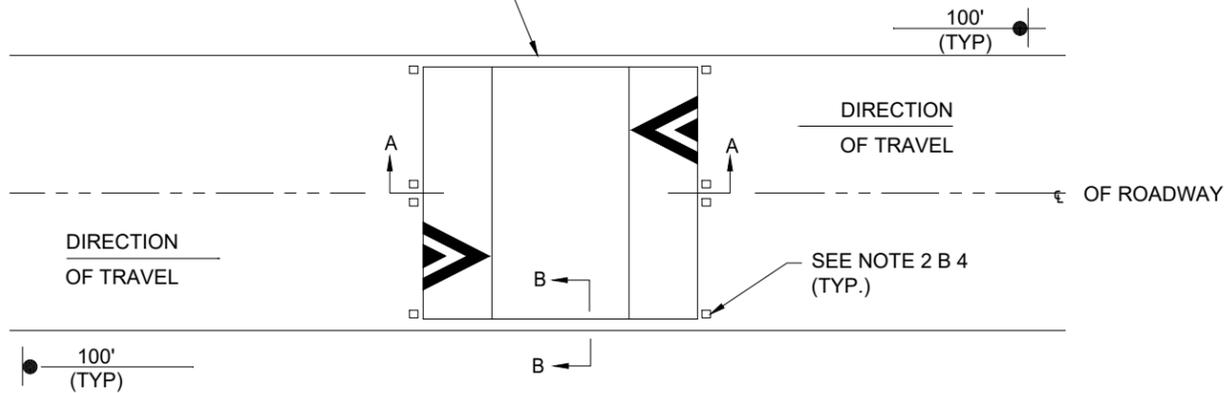
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314

REFER TO MUTCD
FIGURE 38-29
FOR ADDITIONAL DETAILS



MUTCD
W17-1
(TYP)

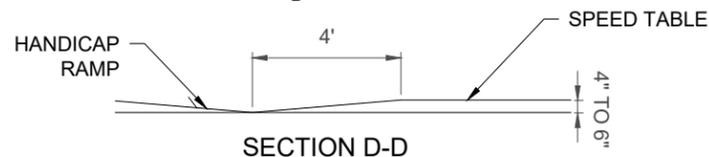
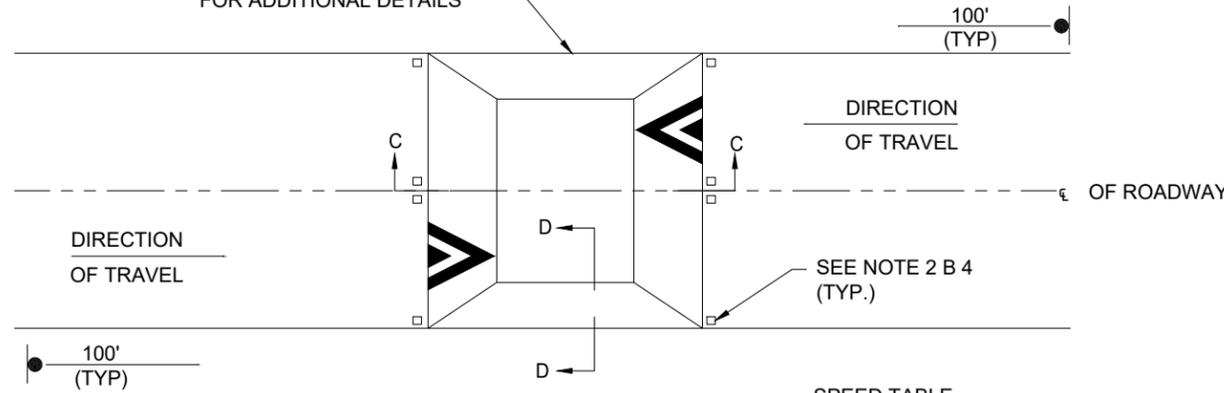


SECTION B-B
TYPE 1 SPEED TABLE DETAIL
NTS

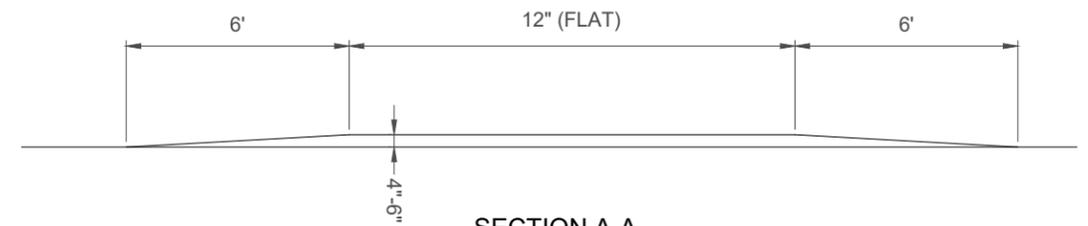
REFER TO MUTCD
FIGURE 38-29
FOR ADDITIONAL DETAILS



MUTCD
W17-1
(TYP)



SECTION D-D
TYPE 2 SPEED TABLE DETAIL
NTS



SECTION A-A
SECTION C-C

NOTES:

1. USE TYPE 2 SPEED TABLES IN CONJUNCTION WITH CROSSWALKS, ONLY.
2. SPEED TABLES MAY BE CONSTRUCTED USING ASPHALT OR CONCRETE, PER FULTON COUNTY TRAFFIC ENGINEER.
 - A. CONCRETE CONSTRUCTION:
 - 1) CONSTRUCT SPEED TABLES USING 3000 PSI HIGH/EARLY CONCRETE REINFORCED WITH #3 BARS AT 12" C. TO C. BOTH WAYS, OR 6 X 6 -W2.9 X W2.9 WELDED WIRE FABRIC OR 4 X 4 - W2.0 X W2.0 WELDED WIRE FABRIC.
 - 2) CONCRETE WILL BE COLORED AND TOP STAMPED WITH TEXTURE PER FULTON COUNTY TRAFFIC ENGINEER.
 - B. ASPHALT CONSTRUCTION:
 - 1) CONSTRUCT SPEED TABLES USING ASPHALTIC CONCRETE 12.5 MM SUPERPAVE IN ACCORDANCE WITH SECTION 402 OF THE GEORGIA DOT STANDARD SPECIFICATIONS, CURRENT EDITION.
 - 2) APPLY TACK COAT AT A RATE OF 0.04 TO 0.06 GALLONS PER SQUARE YARD IN ACCORDANCE WITH SECTION 413 OF THE GDOT STANDARD SPECIFICATIONS, CURRENT EDITION, OR AS DIRECTED BY ENGINEER.
 - 3) APPLY PAVEMENT MARKINGS USING WHITE THERMOPLASTIC 0.090 INCHES IN THICKNESS IN ACCORDANCE WITH SECTION 653 OF THE GDOT STANDARD SPECIFICATIONS, CURRENT EDITION.
 - 4) APPLY RAISED PAVEMENT MARKERS PER GDOT CONSTRUCTION DETAIL T-15C, TYPE 11 (YELLOW/YELLOW) (CENTERLINE) AND TYPE 13 (CLEAR/RED) (EDGE OF PAVEMENT), USING HEATED BITUMINOUS ADHESIVE IN ACCORDANCE WITH SECTION 868 OF THE GDOT SPECIAL SHELF PROVISION SPECIFICATIONS, CURRENT EDITION.
3. SEE SIGN INSTALLATION DETAIL DWG 322 A/B/C.

FULTON COUNTY STANDARD DETAIL 315

SPEED TABLE

DATE	REVISIONS	DATE	REVISIONS

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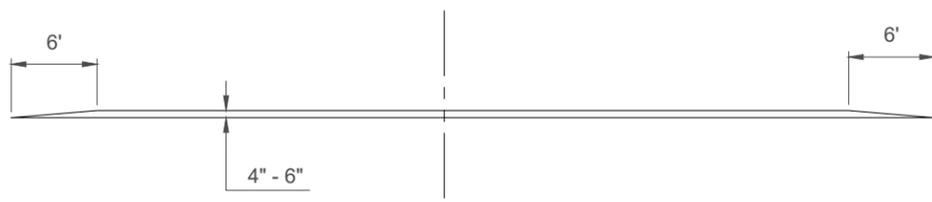
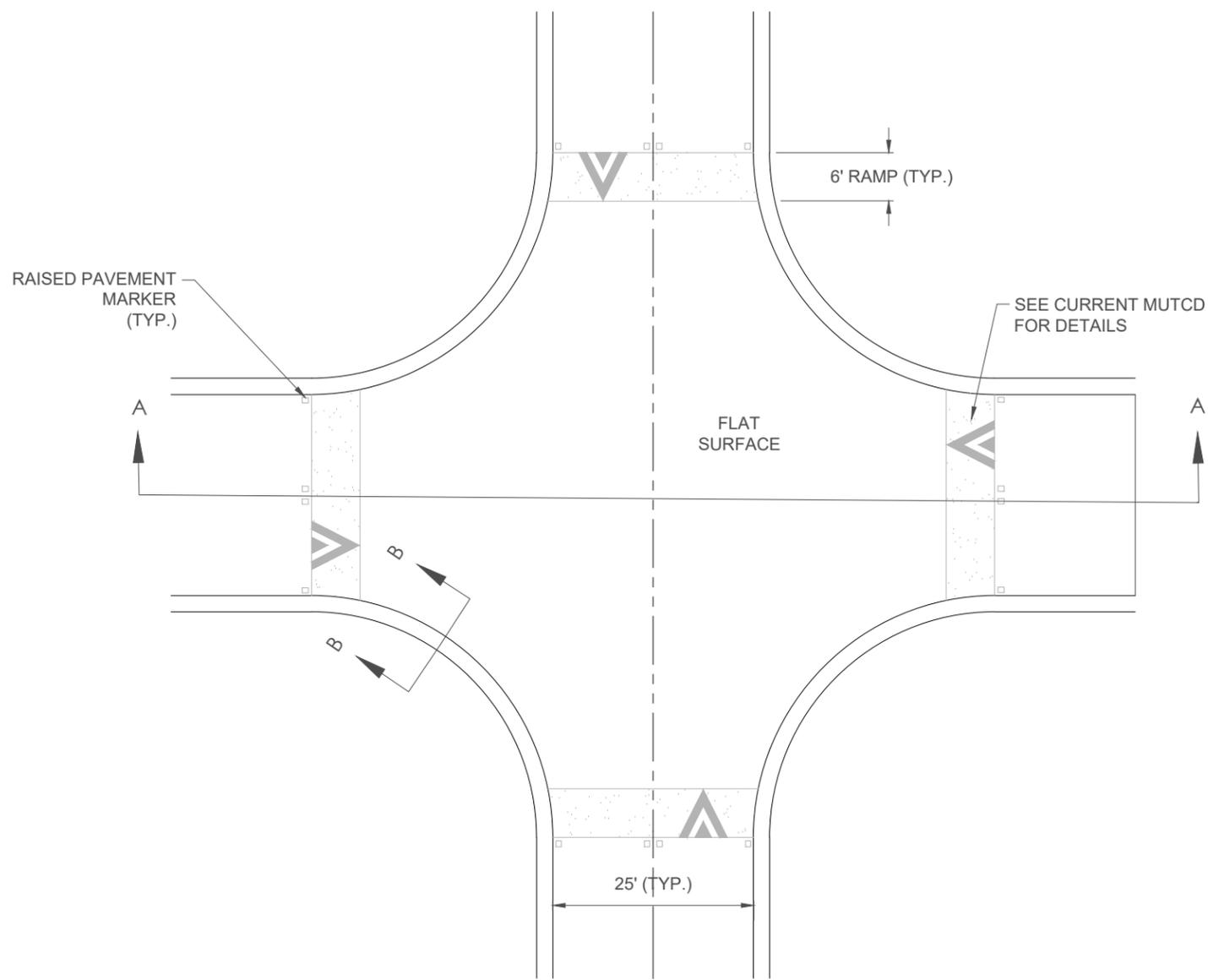


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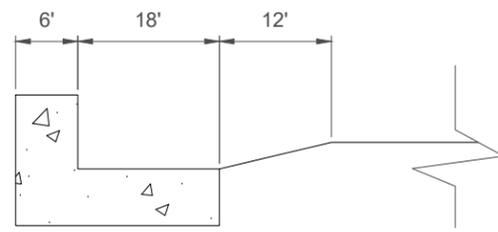
DRAWING NO.

315

316-S.DWG December 08, 2025 1:57pm



SECTION A - A
NTS



SECTION B - B
NTS

NOTES:

1. MINIMUM 1" SLOPE REQUIRED IN ALL AREAS FOR DRAINAGE.
2. A 30" X 30" YELLOW WARNING SIGN WITH THE LEGEND "RAISED INTERSECTION" MAY BE REQUIRED ON ALL APPROACHES NOT CONTROLLED BY A STOP SIGN.
3. INTERSECTION HUMP MAY BE CONSTRUCTED USING ASPHALT OR CONCRETE, PER FULTON COUNTY TRAFFIC ENGINEER.
 - A. CONCRETE CONSTRUCTION:
 - 1) CONSTRUCT INTERSECTION HUMP USING 3000 PSI HIGH/EARLY CONCRETE REINFORCED WITH #3 BARS AT 12" C. TO C. BOTH WAYS, OR 6 X 6 - W2.9 WELDED WIRE FABRIC, OR 4 X 4 - W2.0 X W2.0 WELDED WIRE FABRIC.
 - 2) CONCRETE WILL BE COLORED AND TOP STAMPED WITH TEXTURE PER FULTON COUNTY TRAFFIC ENGINEER.
 - B. ASPHALT CONSTRUCTION:
 - 1) CONSTRUCT INTERSECTION HUMP USING ASPHALTIC CONCRETE 12.5 MM SUPERPAVE IN ACCORDANCE WITH SECTION 402 OF THE GEORGIA DOT STANDARD SPECIFICATIONS, CURRENT EDITION.
 - 2) APPLY TACK COAT AT A RATE OF 0.04 TO 0.06 GALLONS PER SQUARE YARD IN ACCORDANCE WITH SECTION 413 OF THE GEORGIA DOT STANDARD SPECIFICATIONS, CURRENT EDITION, OR AS DIRECTED BY ENGINEER.
4. APPLY PAVEMENT MARKING USING WHITE THERMOPLASTIC 0.090 INCHES IN THICKNESS IN ACCORDANCE WITH SECTION 653 OF THE GEORGIA DOT STANDARD SPECIFICATIONS, CURRENT EDITION.
 - A. APPLY RAISED PAVEMENT MARKERS, TP 11 (YELLOW/YELLOW) (CENTERLINE) AND TP 13 (CLEAR/RED) (EDGE OF PAVEMENT), USING HEATED BITUMINOUS ADHESIVE IN ACCORDANCE WITH SECTION 868 OF THE GEORGIA DOT SPECIAL SHELF PROVISION SPECIFICATIONS, CURRENT EDITION.

FULTON COUNTY STANDARD DETAIL 316
INTERSECTION HUMP

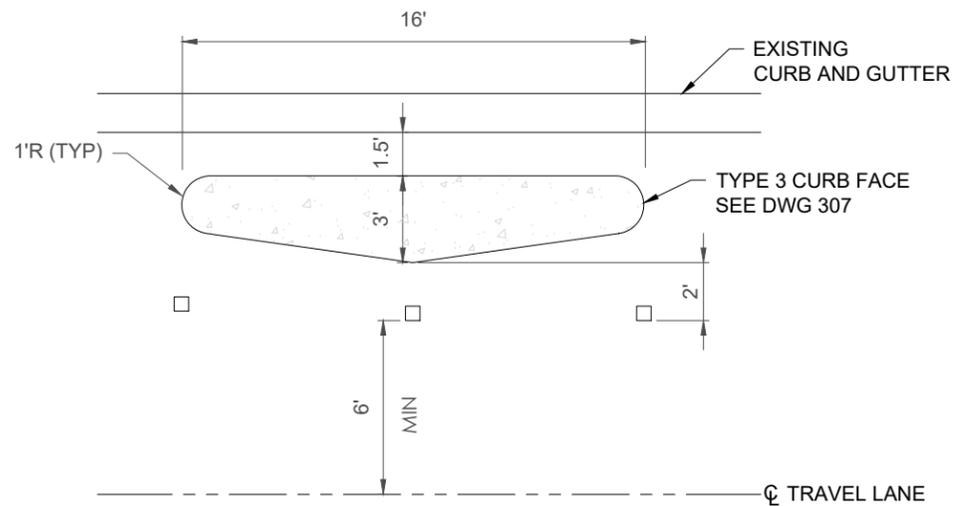
DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026



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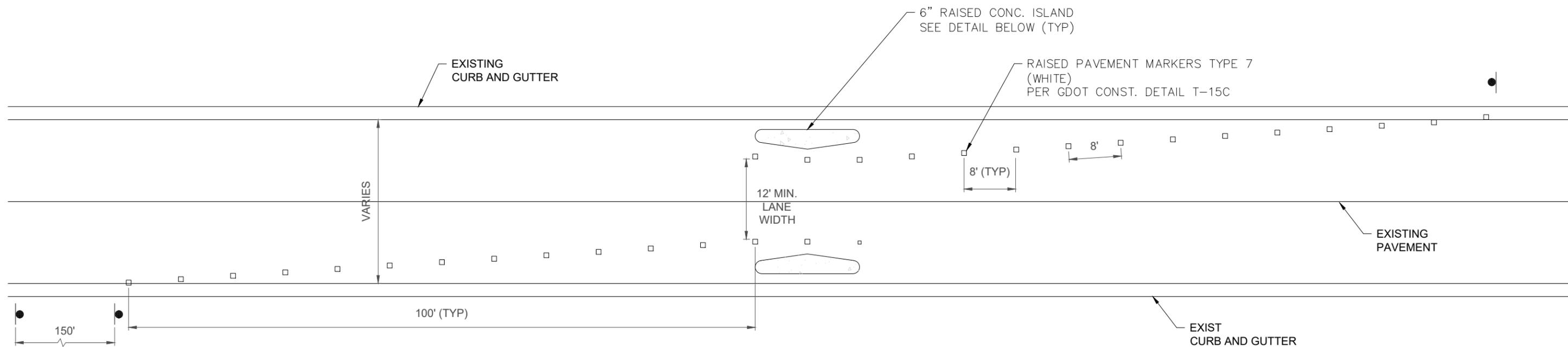
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316



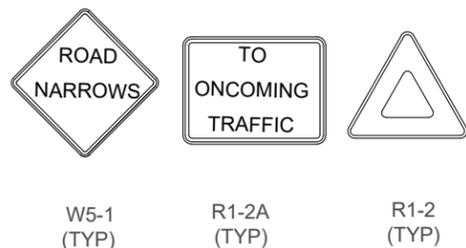
CONC ISLAND DETAIL
NTS

NOTES:

1. SEE DWG. 307 FOR CONCRETE MEDIAN CONSTRUCTION DETAIL.
2. SEE SIGN INSTALLATION DETAIL DWG 322 A/B/C.
3. INSTALL RAISED PAVEMENT MARKERS USING HEATED BITUMINOUS ADHESIVE IN ACCORDANCE WITH SECTION 868 OR GDOT SPECIAL SHELF PROVISION SPECIFICATIONS.



PLAN
NTS



FULTON COUNTY STANDARD DETAIL 317

ONE LANE CHOKER

DATE	REVISIONS	DATE	REVISIONS

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 DATE: 01-21-2026

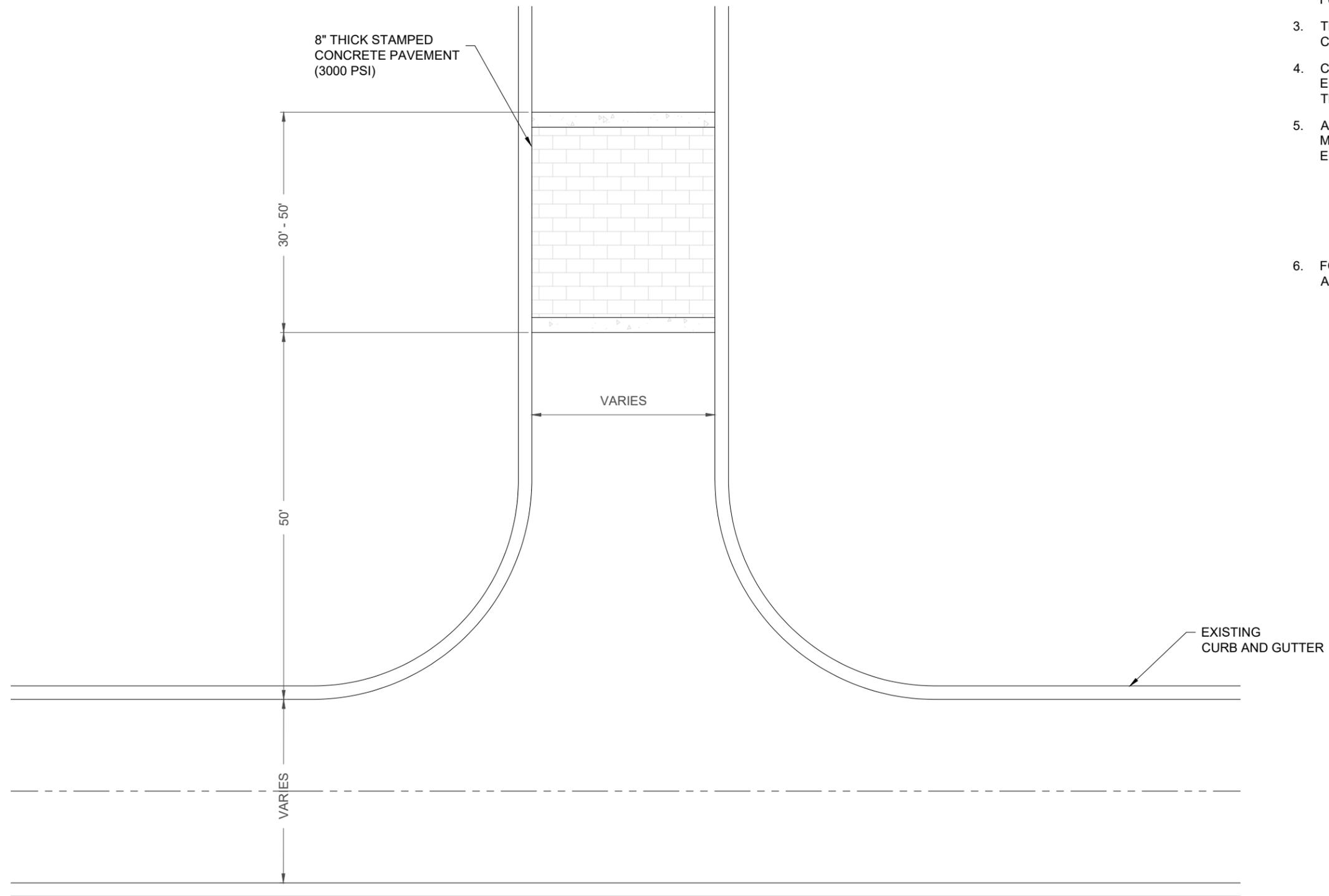


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DRAWING NO.
317

NOTES:

1. CONSTRUCT ENTRANCE TREATMENT USING 3000 PSI HIGH/EARLY CONCRETE.
2. CONCRETE WILL BE COLORED AND STAMPED WITH TEXTURE PER FULTON COUNTY TRAFFIC ENGINEER.
3. TREATMENT WILL EXTEND FROM GUTTER TO GUTTER OR FACE OF CURB TO FACE OF CURB WHERE NO GUTTER EXISTS.
4. CONCRETE MAY BE FORMED 1 INCH ABOVE EXISTING GRADE WITH EDGE SLOPED TO GRADE OVER 1 INCH PER FULTON COUNTY TRAFFIC ENGINEER.
5. ALTERNATE PAVER MATERIAL (STONE, BRICK, CONCRETE, ETC.) MAY BE USED AS APPROVED BY FULTON COUNTY TRAFFIC ENGINEER. IF USED, APPLY FOLLOWING MODIFICATIONS:
 - A. 18 INCH BAND OF 3000 PSI HIGH/EARLY CONCRETE POURED IN PLACE EXTENT OF TREATMENT.
 - B. ALL PAVERS SET IN 1 INCH LEVELING SAND ON MINIMUM OF 4 INCH CONCRETE BASE.
6. FOR PRIVATE STREETS ONLY UNLESS APPROVED BY ECONOMIC AND COMMUNITY DEVELOPMENT DIRECTOR.



318-S.DWG December 08, 2025 1:57pm

FULTON COUNTY STANDARD DETAIL 318

ENTRANCE TREATMENT

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
 APPROVED: TM
 DATE: 01-21-2026

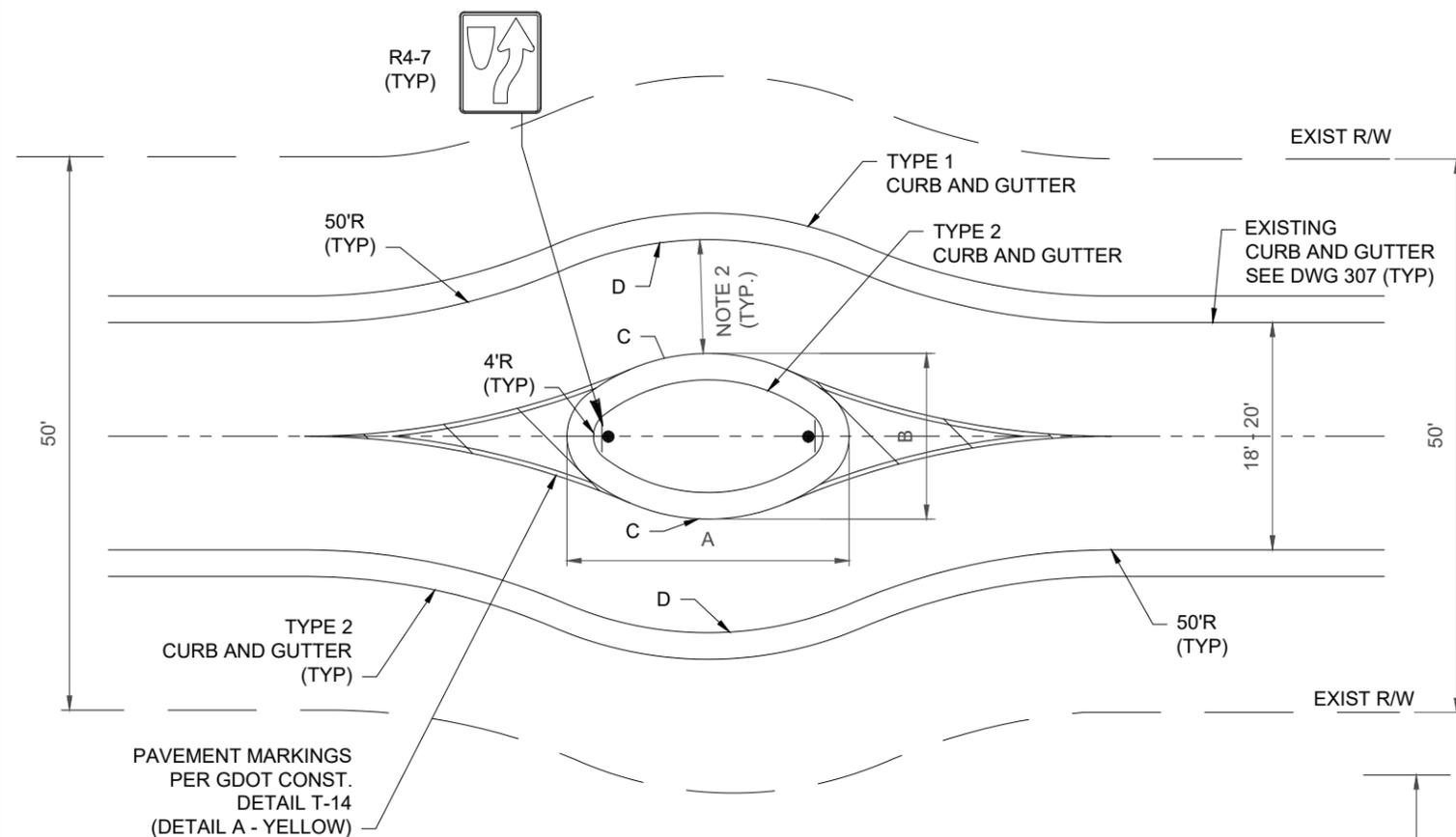


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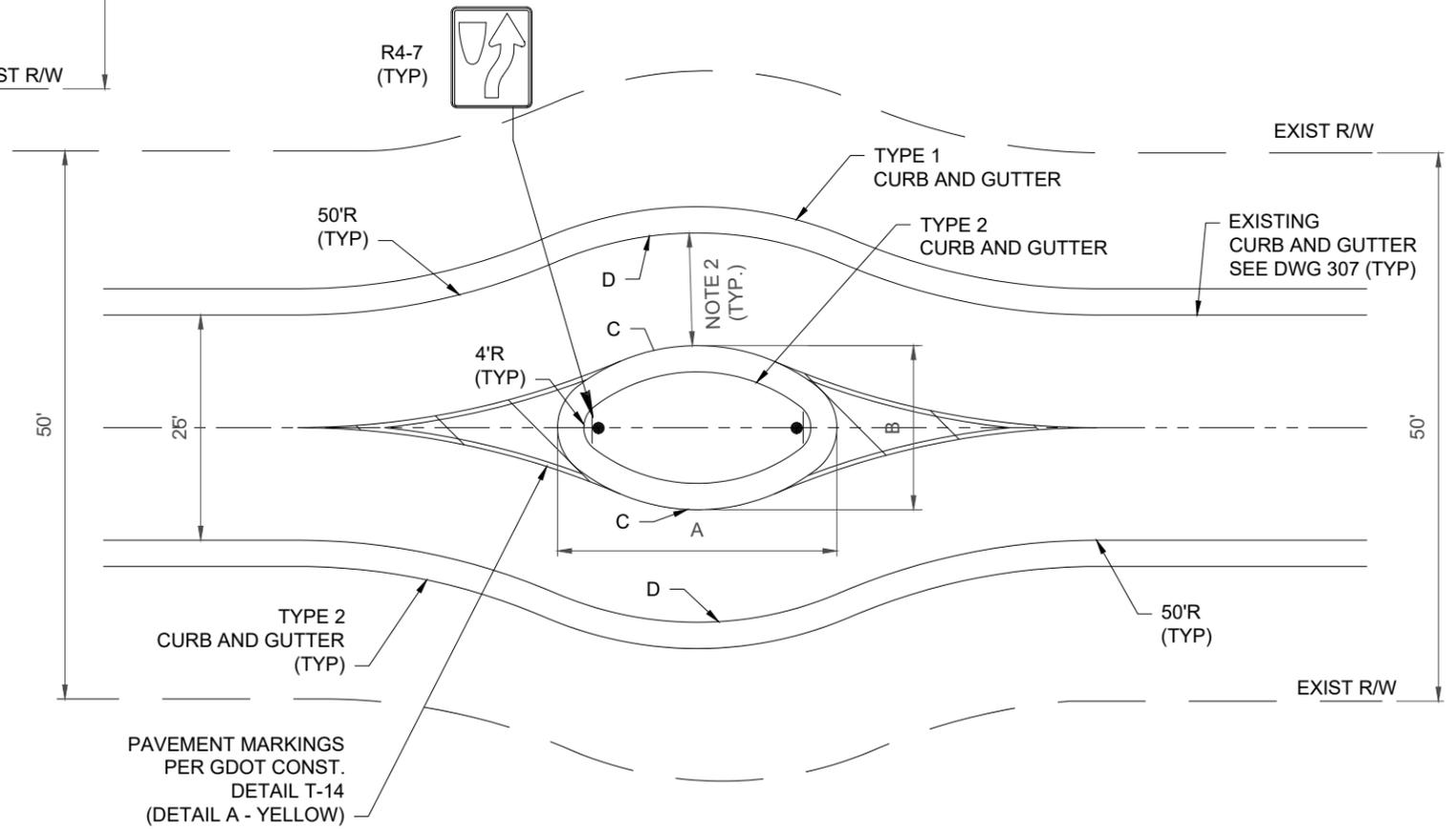
318

319-S.dwg December 08, 2025 1:57pm



**CENTER ISLAND EXIST 25' ROADWAY
WITHOUT SIDEWALK**
NTS

TABLE 319-1			
	18' ROADWAY	20' ROADWAY	25' ROADWAY
A	13'-7"	16'-3"	21'-4"
B	9'-0"	10'-0"	12'-6"
C	12' R	13' R	15' R
D	21' R	23' R	27'-6" R



**CENTER ISLAND EXIST 25' ROADWAY
WITHOUT SIDEWALK**
NTS

NOTES:

1. ALL STRIPING MUST BE DONE IN THERMOPLASTIC PER GDOT SPECIFICATION SECTION 653.
2. 20' LANE WIDTH REQUIRED BY FIRE DEPARTMENT *
3. NO RESIDENTIAL DRIVEWAYS ALLOWED WITHIN 20- FEET OF CENTER ISLAND.
4. SEE SIGN INSTALLATION DETAIL DWG 322 A/B/C.

FULTON COUNTY STANDARD DETAIL 319
CENTER ISLAND

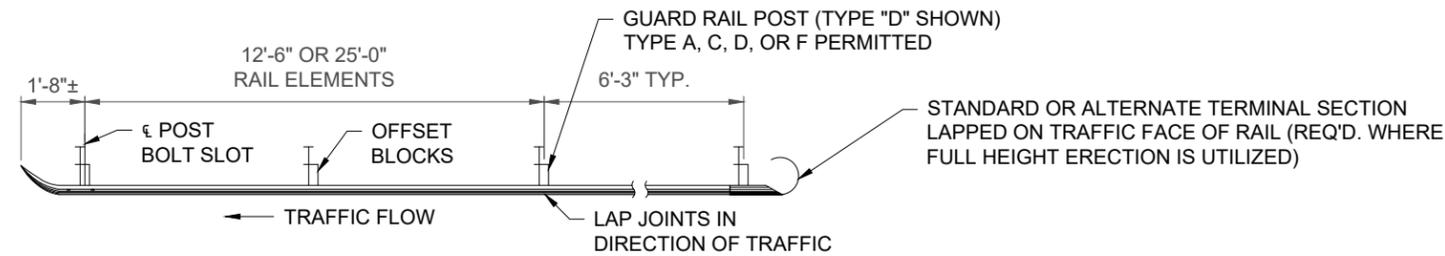
DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026

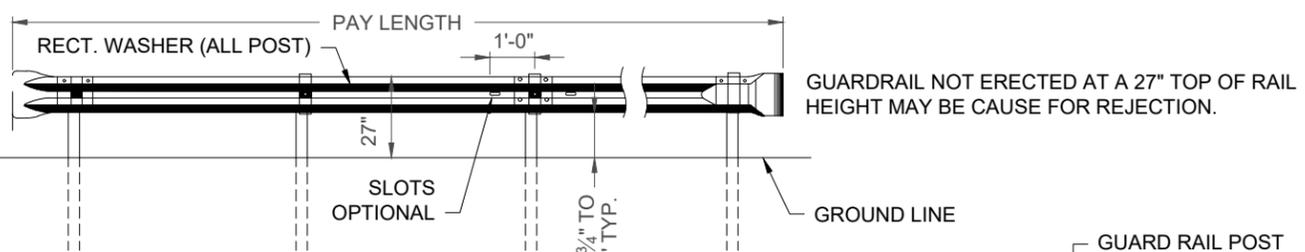


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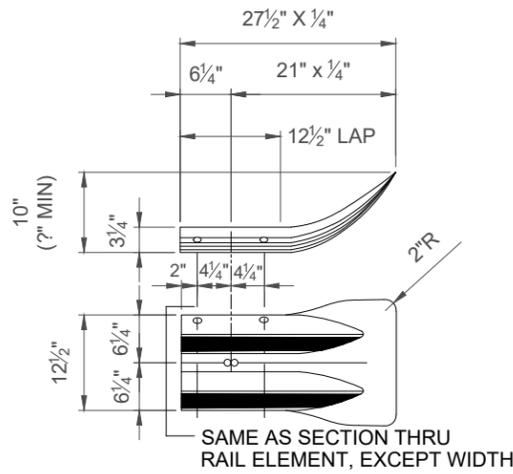
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319



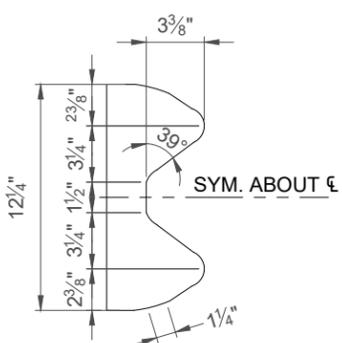
STANDARD OR ALTERNATE TERMINAL SECTION LAPPED ON TRAFFIC FACE OF RAIL (REQ'D. WHERE FULL HEIGHT ERECTION IS UTILIZED).



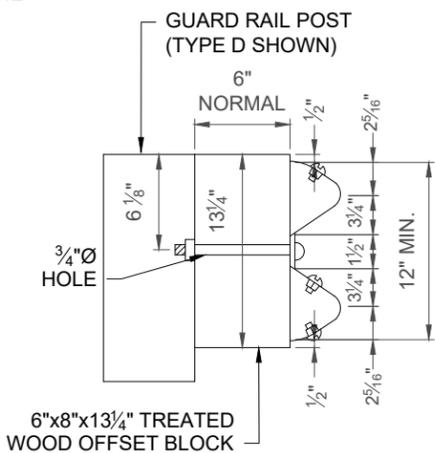
GUARDRAIL NOT ERECTED AT A 27" TOP OF RAIL HEIGHT MAY BE CAUSE FOR REJECTION.



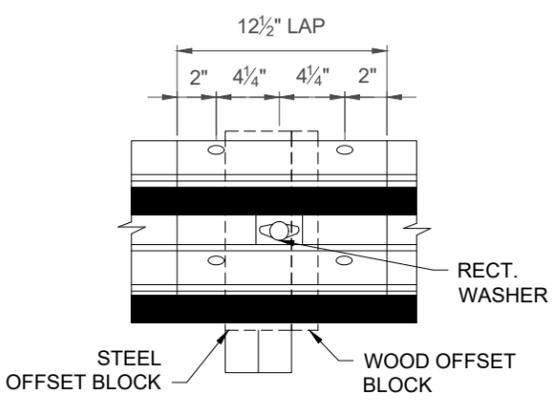
STANDARD TERMINAL SECTION
NTS



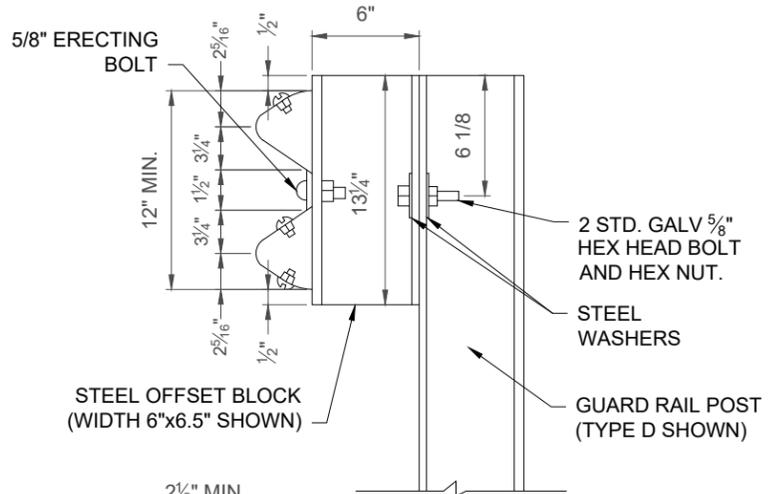
SECTION THRU RAIL ELEMENT
NTS



6"x8"x13 1/4" TREATED WOOD OFFSET BLOCK

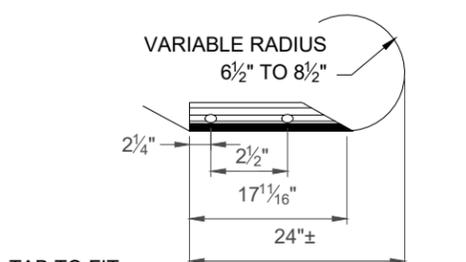


GUARD RAIL SPLICE AT POST
NTS

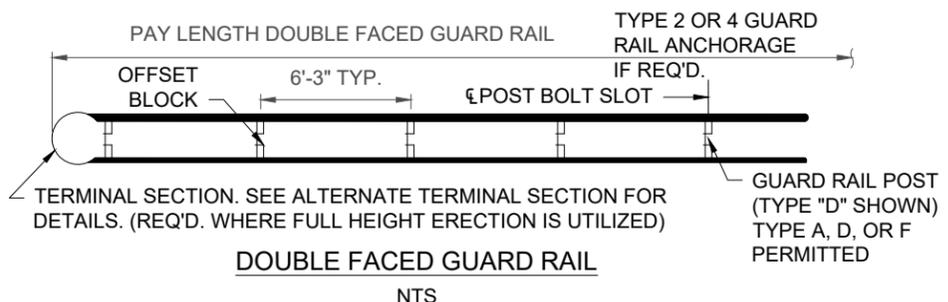


ERECTING BOLT SLOT
NTS

SPLICE BOLT SLOT
NTS

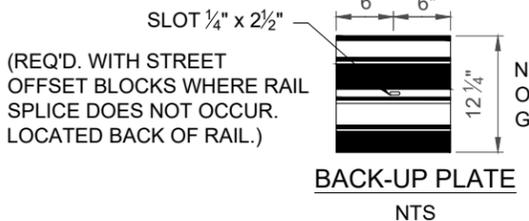


ALTERNATE TERMINAL SECTION
NTS

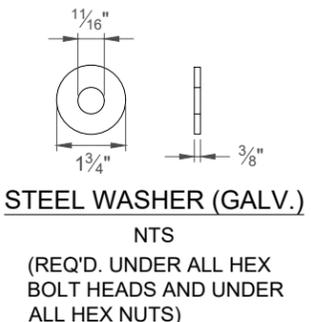


DOUBLE FACED GUARD RAIL
NTS

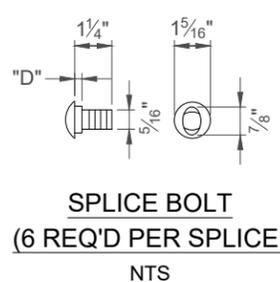
TERMINAL SECTION FOR DOUBLE FACED GUARD RAIL SIMILAR RADIUS VARIABLE 12" TO 16" AND LENGTH VARIABLE.



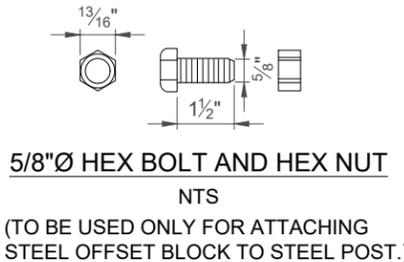
BACK-UP PLATE
NTS



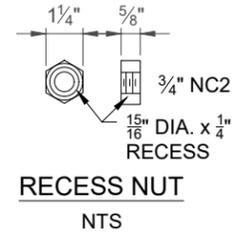
STEEL WASHER (GALV.)
NTS
(REQ'D. UNDER ALL HEX BOLT HEADS AND UNDER ALL HEX NUTS)



SPLICE BOLT
(6 REQ'D PER SPLICE)
NTS



5/8"Ø HEX BOLT AND HEX NUT
NTS
(TO BE USED ONLY FOR ATTACHING STEEL OFFSET BLOCK TO STEEL POST.)



RECESS NUT
NTS



RECTANGULAR WASHER (GALV) (8 GAUGE)
NTS

- NOTES:**
1. GUARD RAIL, ITS FITTINGS, PARTS, ETC. ARE TO BE IN ACCORDANCE WITH STATE HIGHWAY DEPARTMENT OF GEORGIA STANDARD SPECIFICATIONS AND/OR SPECIAL PROVISIONS.
 2. FOR DETAILS OF POSTS & OFFSET BLOCKS SEE GA. STANDARD 4011.
 3. FOR DETAILS OF GUARD RAIL ANCHORAGES SEE GEORGIA STANDARD 4012.
 4. FOR LOCATION OF GUARD RAIL SEE APPLICABLE LOCATION STANDARDS.
 5. ON PROJECTS WHERE GUARD RAIL CONNECTIONS AT BRIDGE END HAVE BEEN PLACED ON PREVIOUS CONTRACTS THE END PANEL MAY BE SHORTENED BY CUTTING OR SHEARING TO FIT EXISTING STRUCTURE.
 6. WHEN GUARD RAIL IS REQUIRED ON CURVES WITH RADII LESS THAN 150' PRECURVED RAIL WILL BE REQUIRED.
 7. UNIT PRICE FOR GUARD RAIL TO INCLUDE OFFSET BLOCKS, POST, BACK-UP PLATES WHERE REQ'D, BOLTS, NUTS, WASHERS, TERMINAL SECTIONS, ADDITIONAL POST WHERE REQUIRED AND REMOVAL AND REPLACEMENT OF PORTIONS OF MEDIAN PAVING, SPILLWAYS OR CATCH BASINS WHERE NECESSARY.
 8. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
 9. STANDARD NET LENGTH OF RAIL ELEMENTS MAY BE EITHER 12'-6" OR 25'-0". THESE LENGTHS SHALL BE ARRANGED TO PROVIDE AS NEARLY AS POSSIBLE THE OVERALL LENGTH ORDERED BY THE ENGINEER FOR ANY ONE LOCATION.

FULTON COUNTY STANDARD DETAIL 320
BEAM TYPE GUARD RAIL

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026



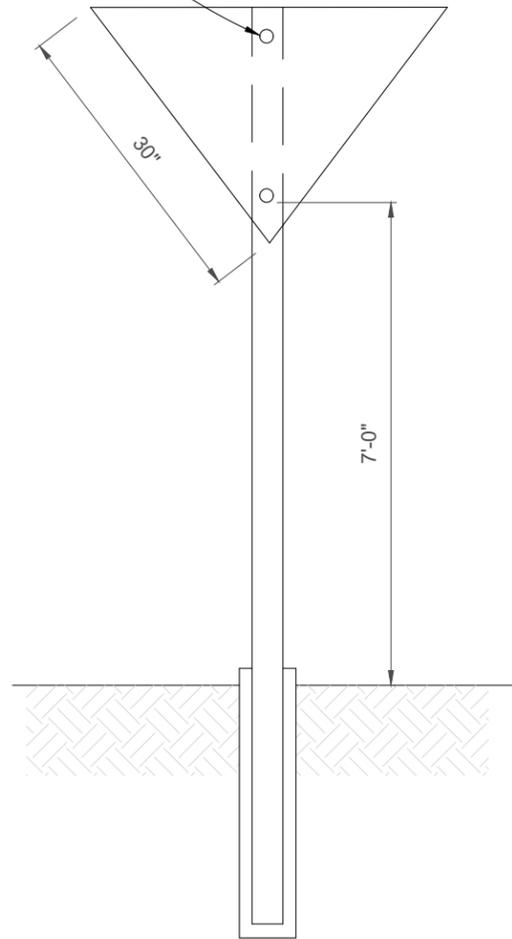
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DRAWING NO.
320

320-S.dwg December 08, 2025 1:57pm

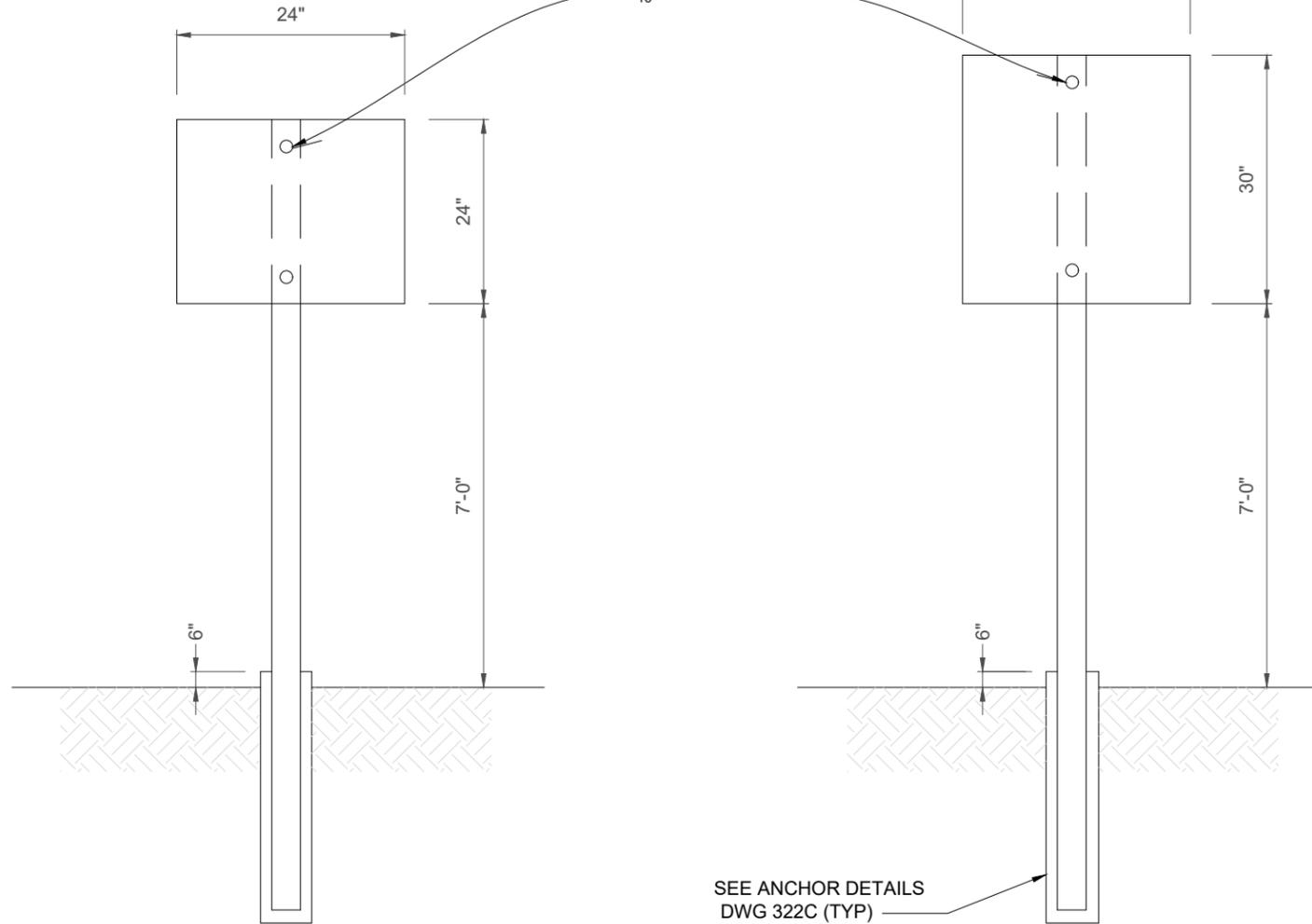
322A-S.dwg December 08, 2025 - 1:58pm

$\frac{7}{16}$ DRIVE RIVETS

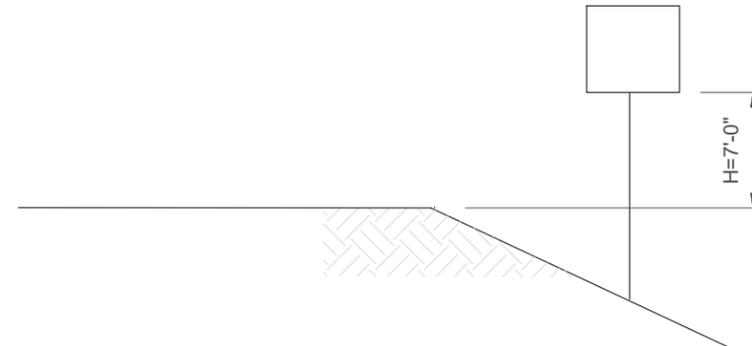


YIELD SIGN DETAILS
NTS

$\frac{7}{16}$ DRIVE RIVETS



REGULARLY SIGN DETAILS
NTS



FULTON COUNTY STANDARD DETAIL 322A
SIGN DETAILS AND LOCATIONS

DATE	REVISIONS	DATE	REVISIONS

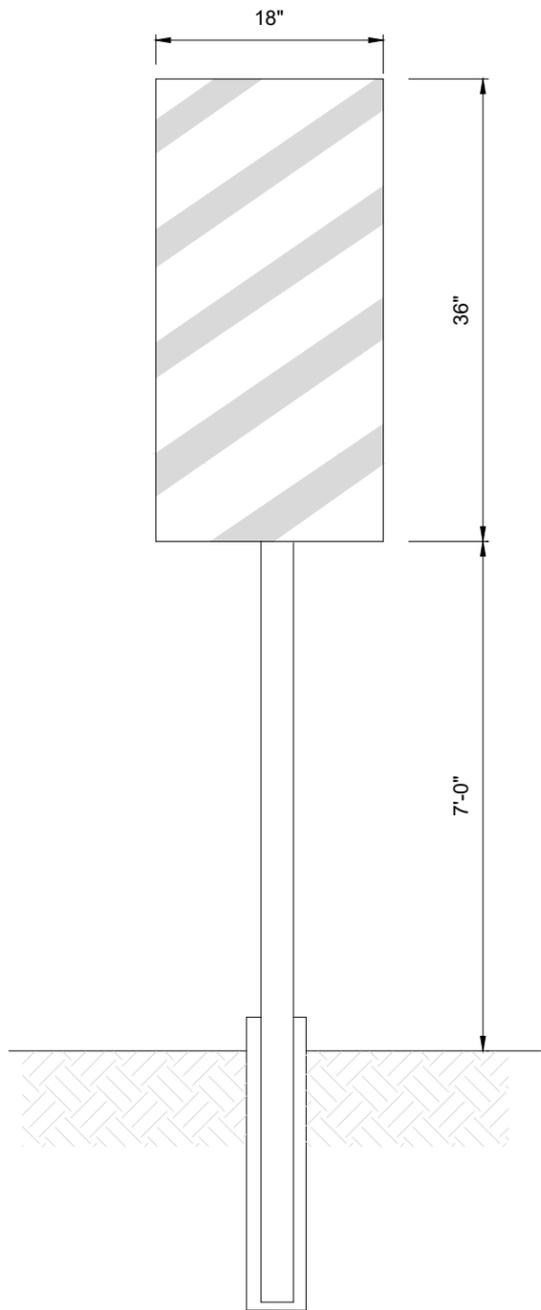
DGS/DRN/CHKD: MB/EB/ML
 APPROVED: TM
 DATE: 01-21-2026



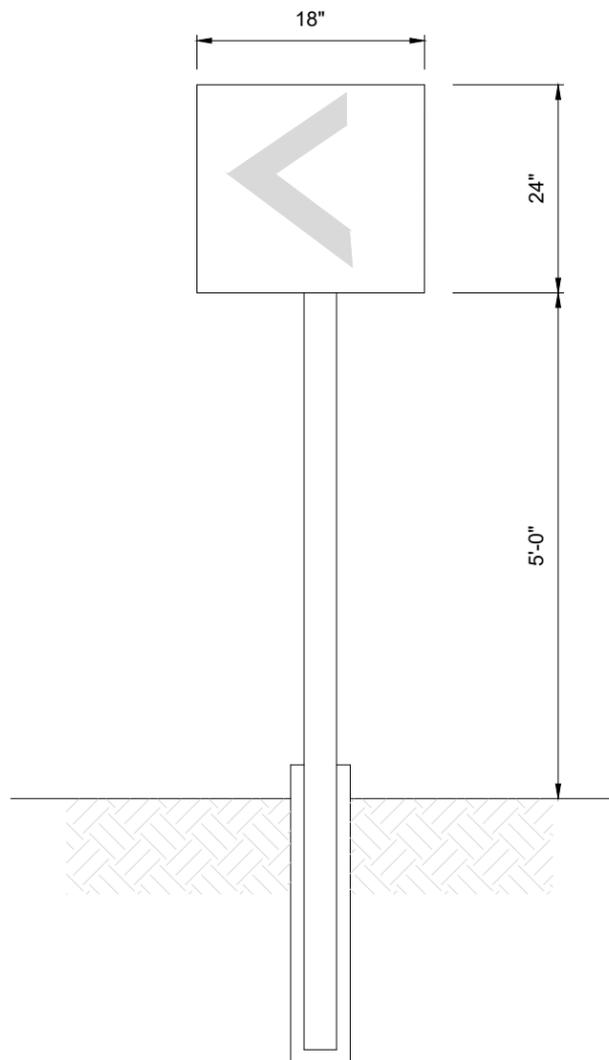
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DRAWING NO.
322A

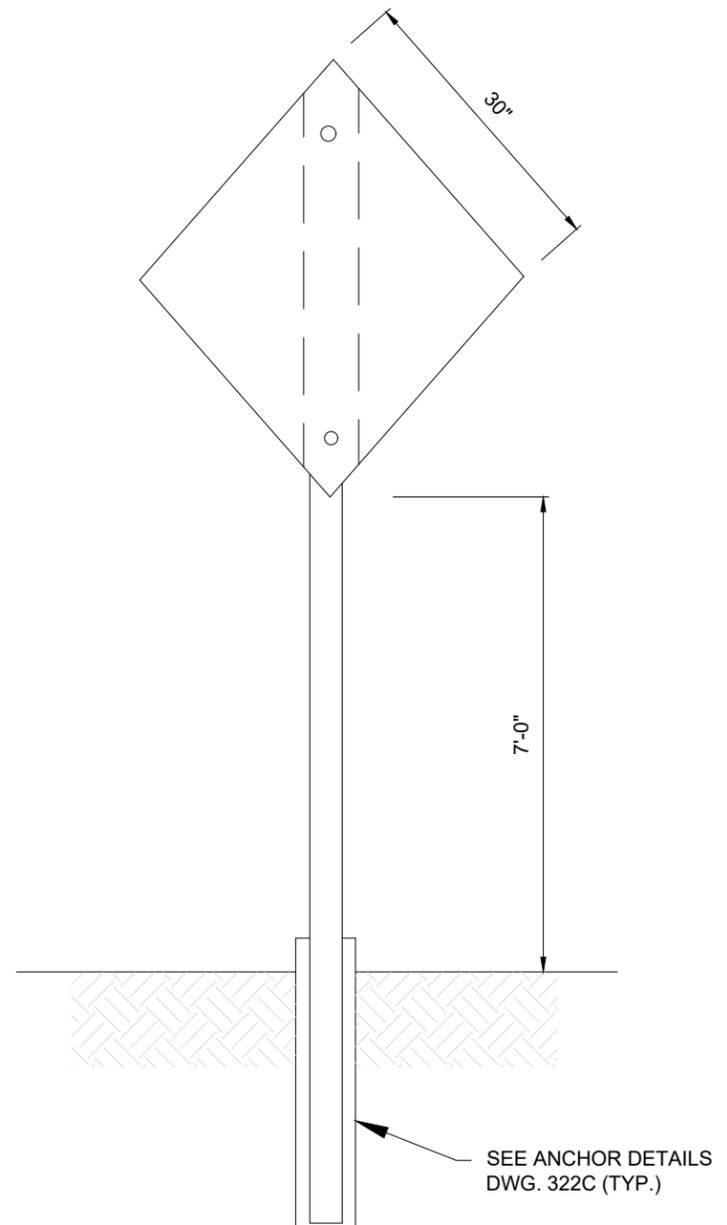
322B-S.dwg December 08, 2025 1:58pm



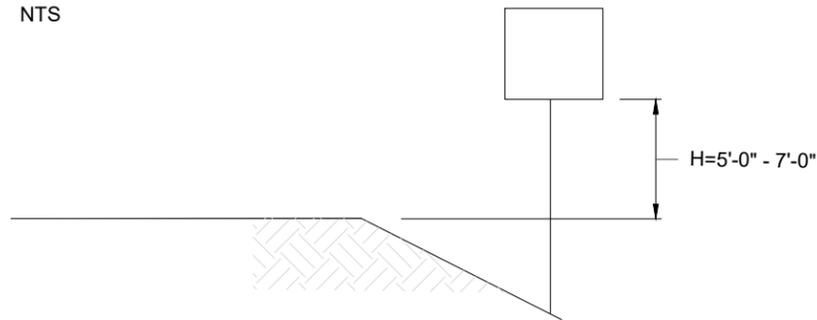
OBJECT MARKER
NTS



CHEVRON DETAILS
NTS



WARNING SIGN DETAILS
NTS



FULTON COUNTY STANDARD DETAIL 322B

**SIGN DETAILS AND LOCATION
SHEET 2 OF 3**

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
 APPROVED: TM
 DATE: 01-21-2026



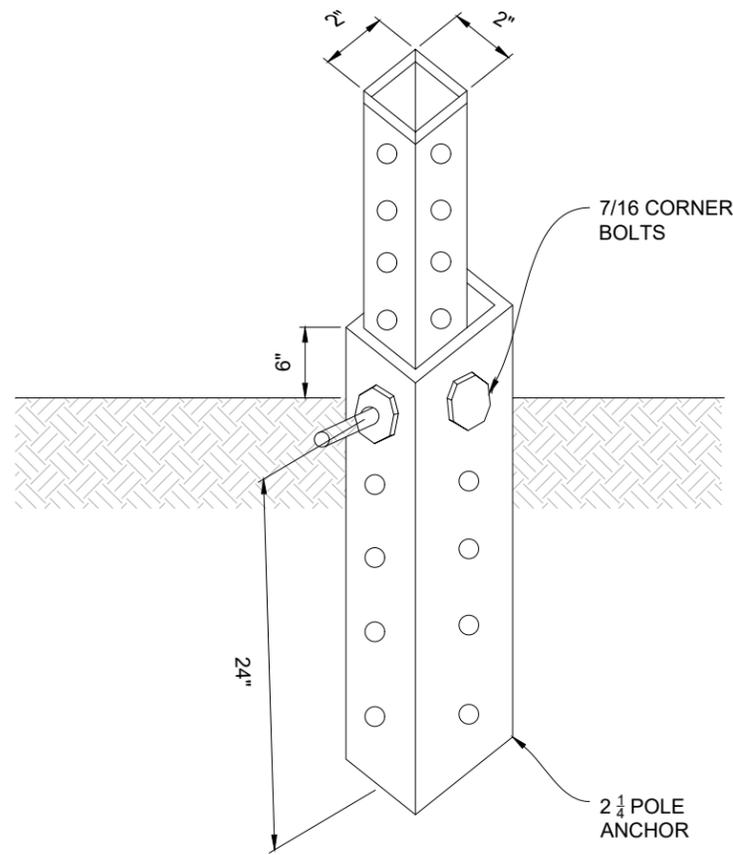
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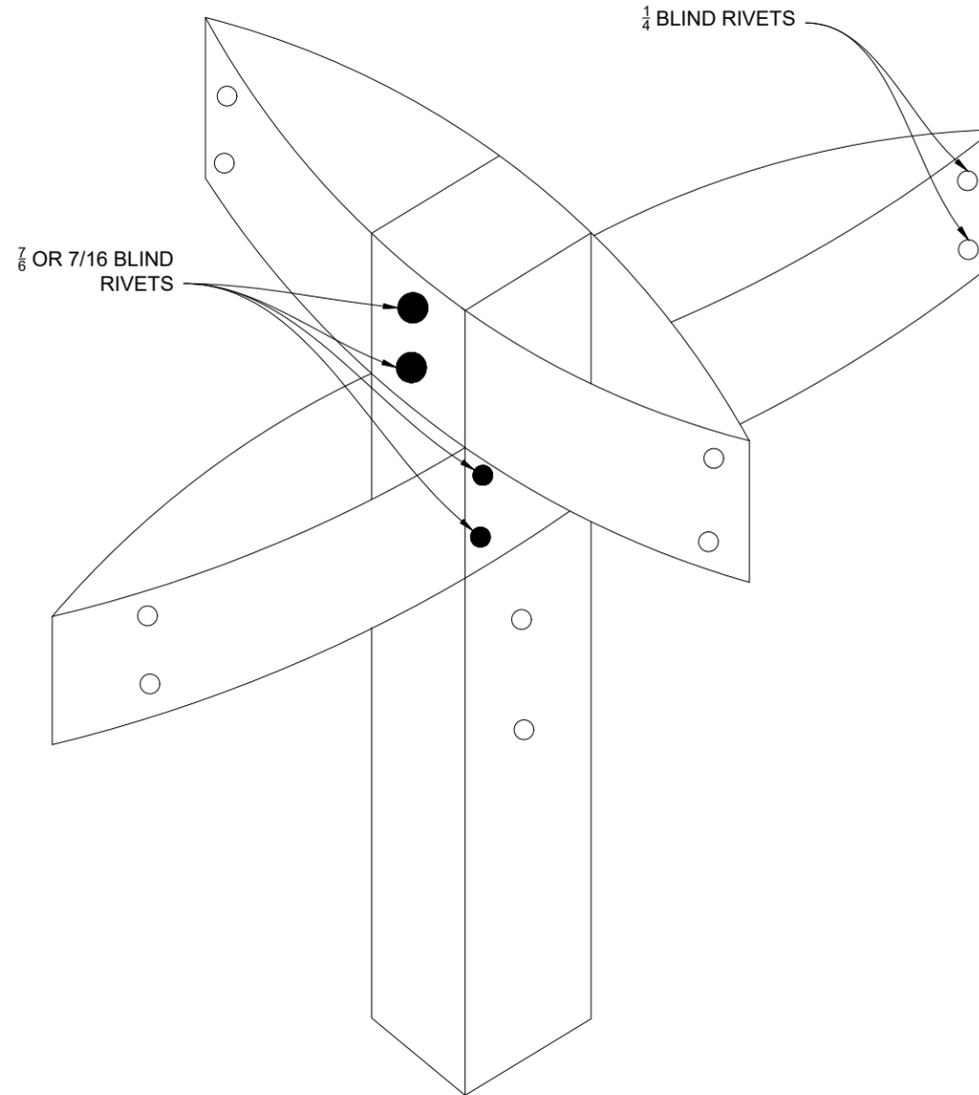
322B

NOTES:

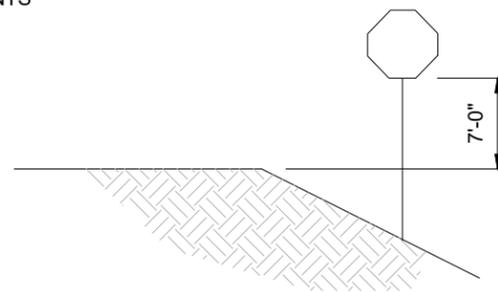
1. SEPARATE STREET SIGN AND STOP SIGN AT SUBDIVISION ENTRANCE ONLY. COMBINE STREET SIGN AND STOP SIGN WITHIN SUBDIVISION.
2. ALL TEXT IS TO BE: 6" LETTER HEIGHT, 9" BLADE.
3. FOR STREET SIGNS ONLY, USE THE FHWA SERIES 'E' FONT FOUND IN THE FHWA STANDARD SIGN MANUAL.
4. FOR WARNING AND PRIVATE SIGNS, USE THE MUTCD SIGN STANDARDS.



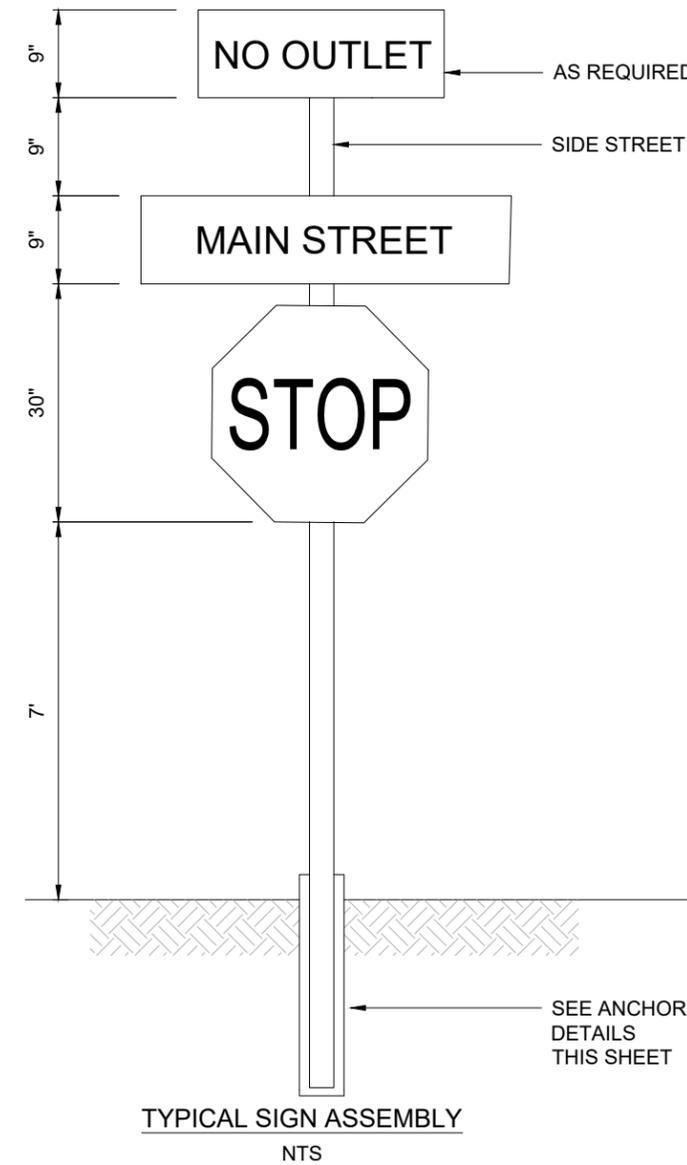
ANCHOR DETAILS
NTS



STREET NAME SIGN MOUNTING DETAILS
NTS



SIGN- INSTALLATION DETAIL
NTS



TYPICAL SIGN ASSEMBLY
NTS

FULTON COUNTY STANDARD DETAIL 322C

SIGN DETAILS AND LOCATION
SHEET 3 OF 3

DATE	REVISIONS	DATE	REVISIONS

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DRAWING NO.

322C

DWG. NO.	DESCRIPTION
400	INDEX AND GENERAL NOTES
401	SANITARY SEWER TYPICAL RIP-RAP CHANNEL PIPE CROSSING
402	CONSTRUCTION EXIT-TEMPORARY
403A	CONCRETE PIER AND FOOTING DETAIL ON SOIL
403B	CONCRETE PIER AND FOOTING DETAIL ON ROCK
403C	CONCRETE PIER AND FOOTING DETAIL TABLE
404	TEMPORARY SILT FENCE
405	DETAIL OF SOD DITCH
407	EROSION CONTROL STONE CHECK DAMS

400-S.dwg December 08, 2025 1:13pm

FULTON COUNTY STANDARD DETAIL 400
INDEX AND GENERAL NOTES

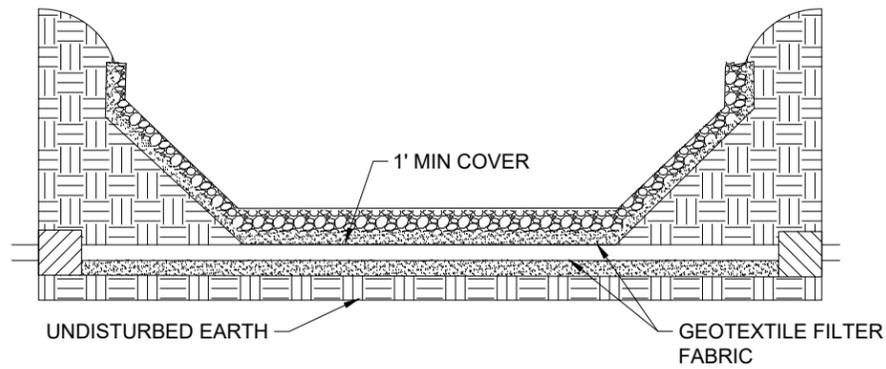
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APPROVED: TM
DATE: 01-21-2026

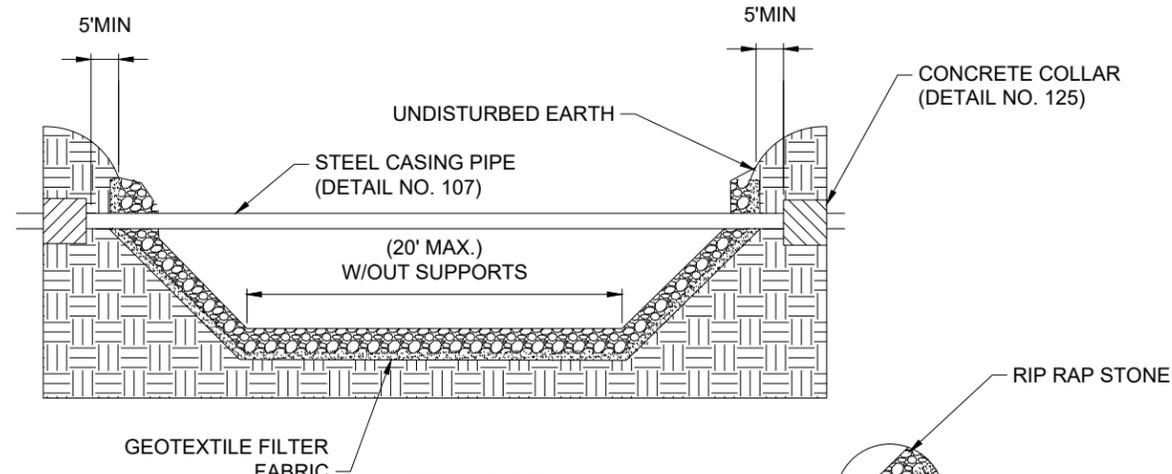


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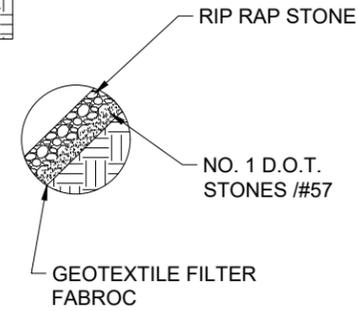
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400



**UNDERGROUND PIPE
SECTION A-A
NTS**

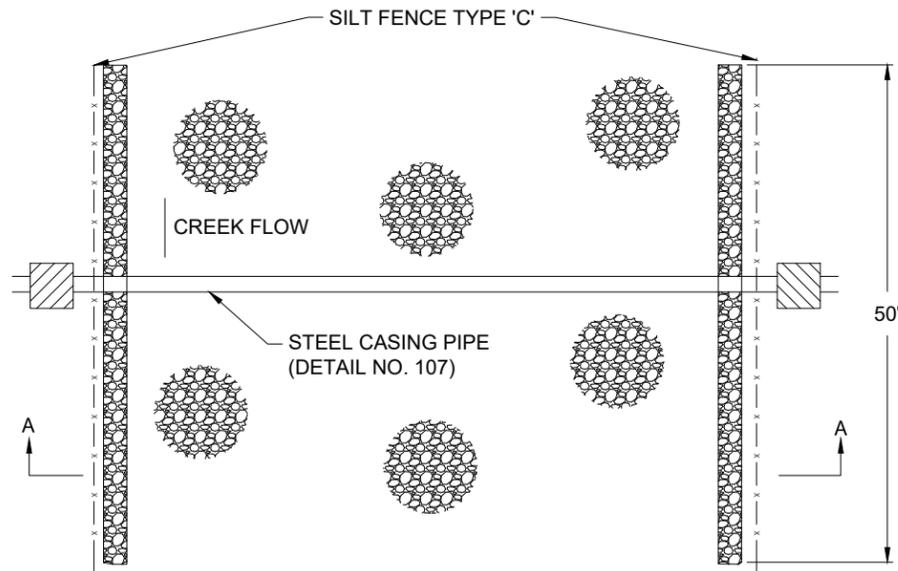


**AERIAL PIPE
SECTION A-A
NTS**



NOTES:

1. MINIMUM STONE SIZE SHALL BE 125 LBS.
2. STONE SIZE SHALL BE PROVIDED BY DESIGN ENGINEER OR FULTON COUNTY PUBLIC WORKS ENGINEER
3. ALL EROSION CONTROL DEVICES MUST BE IN PLACE PRIOR TO ANY GRADING OR CLEARING.
4. ALL EROSION CONTROL SHALL CONFORM TO FULTON COUNTY STANDARDS.
5. RIM OF MANHOLE SHALL BE 2' ABOVE GRADE. IF IN A FLOOD ZONE, RIM SHALL BE ABOVE 25 YEAR STORM ELEVATION. RING AND COVER OF MANHOLE TO BE COMPOSITE WATERTIGHT RING AND COVER PER DETAIL 105.
6. SEE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA FOR MORE INFORMATION.
7. CONCRETE STRENGTH TEST MAY BE REQUIRED FOR ALL POURED IN PLACE CONCRETE.
8. AERIAL CROSSING MAY BE USED ONLY WITH FCPW'S SPECIFIC AND EXPLICIT APPROVAL AND DIRECTIONS.
9. REFER TO DETAIL 100 FOR ADDITIONAL INFORMATION.



**PLAN VIEW
NTS**

FLOW VELOCITY (FT/SEC.)	NATIONAL STONE, SAND & GRAVEL ASSOCIATION RATING	SIZE IN INCHES (SQ. OPENING)			PARTICLE WEIGHT (LBS)*
		MAX.	AVG.	MIN.	
25	R-1	1 1/2	3/4	NO.8	---
4.5	R-2	3	1 1/2	1	---
6.5	R-3	6	3	2	20
9.0	R-4	12	6	3	60
11.5	R-5	18	9	5	150
13.0	R-6	24	12	7	300
14.5	R-7	30	15	12	700
---	R-8	48	24	15	1500

* AT LEAST 50% OF ALL INDIVIDUAL STONE PARTICLES MUST WEIGH AT LEAST THE LISTED AMOUNT.

GEORGIA DOT CLASSIFICATION	SIZE INCHES (SQ. OPENING)			COMMON USES
	MAX.	AVG.	MIN.	
TYPE 3	12	9	5	CREEKS, BANKS, PIPE OUTLETS, LAKES, SHORELINES & RIVERS
TYPE 1	24	12	7	

GRADED RIP - RAP STONE (SEE TABLE 401-2)

TYPE 3: FOR GENERAL USE NORMAL DRAINAGE CONDITIONS: THE LARGEST PIECES OF MATERIAL SHALL HAVE A MAXIMUM APPROXIMATE VOLUME OF ONE CUBIC FOOT. AT LEAST 35% OF THE MASS SHALL BE COMPRISED OF PIECES WHICH WEIGH 15 POUNDS OR MORE.

TYPE 1: FOR SEVERE DRAINAGE CONDITIONS OR MODERATE WAVE ACTION: THE LARGEST PIECES OF MATERIAL SHALL HAVE A MAXIMUM VOLUME OF 4.2 CUBIC FEET. AT LEAST 35% OF THE MASS SHALL BE COMPRISED OF PIECES WHICH WEIGH 125 POUNDS OR MORE.

FULTON COUNTY STANDARD DETAIL 401

SANITARY SEWER TYPICAL RIP-RAP CHANNEL PIPE CROSSING

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
 APPROVED: TM
 DATE: 01-21-2026

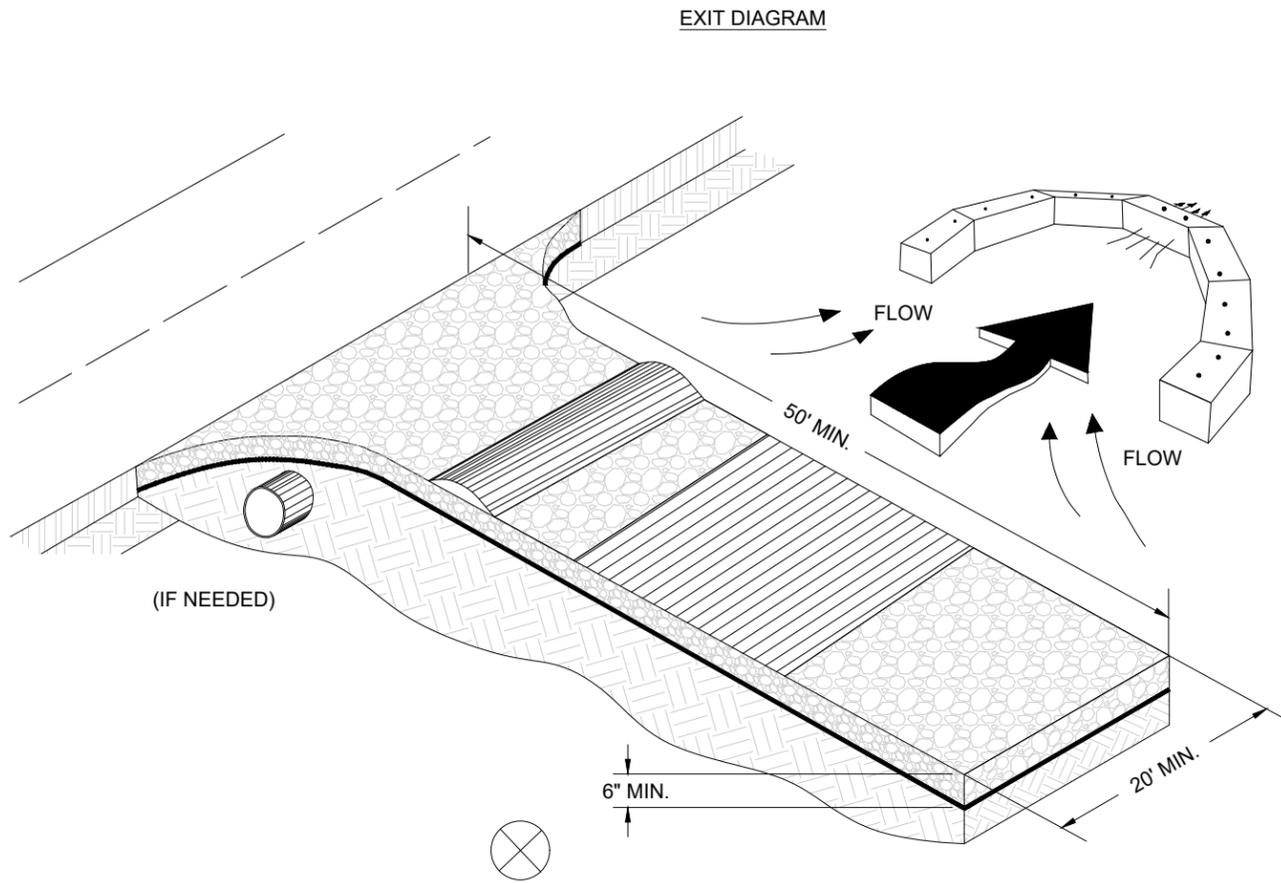


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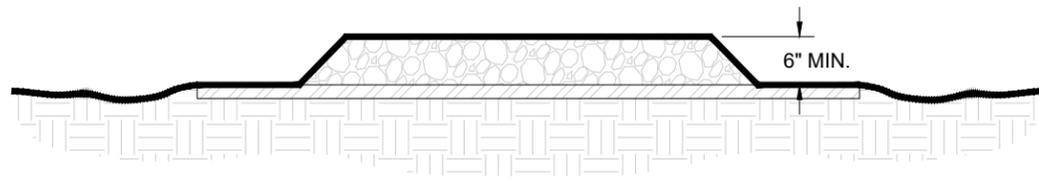
DRAWING NO.

401

402-S.dwg December 08, 2025 1:14pm



ENTRANCE ELEVATION



NOTES:

1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA. GRADE AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES.
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20 FEET.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVES MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

FULTON COUNTY STANDARD DETAIL 402
CONSTRUCTION EXIT - TEMPORARY

DATE	REVISIONS	DATE	REVISIONS

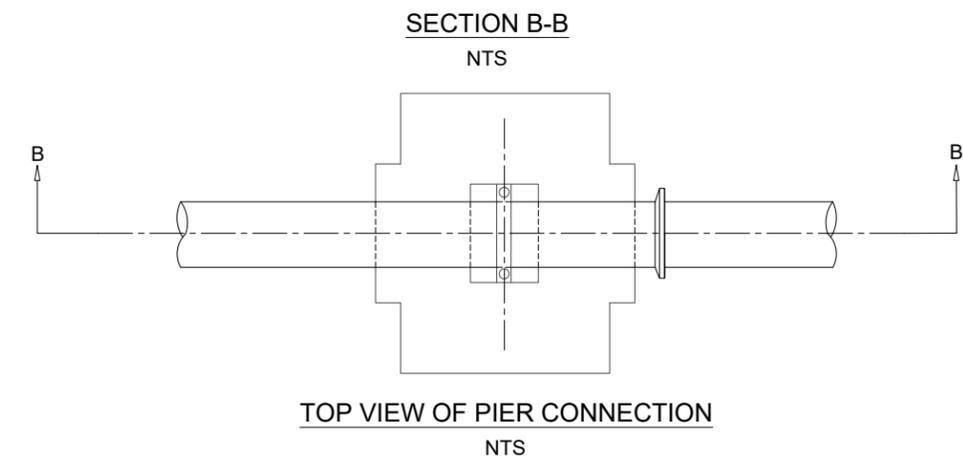
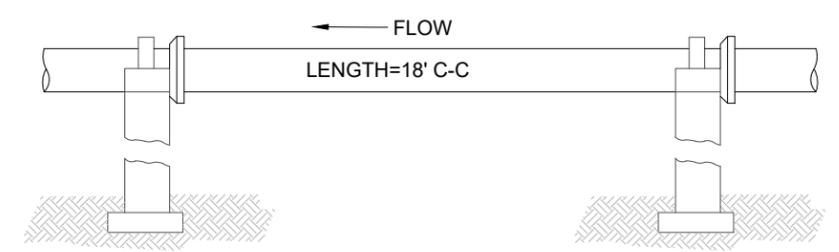
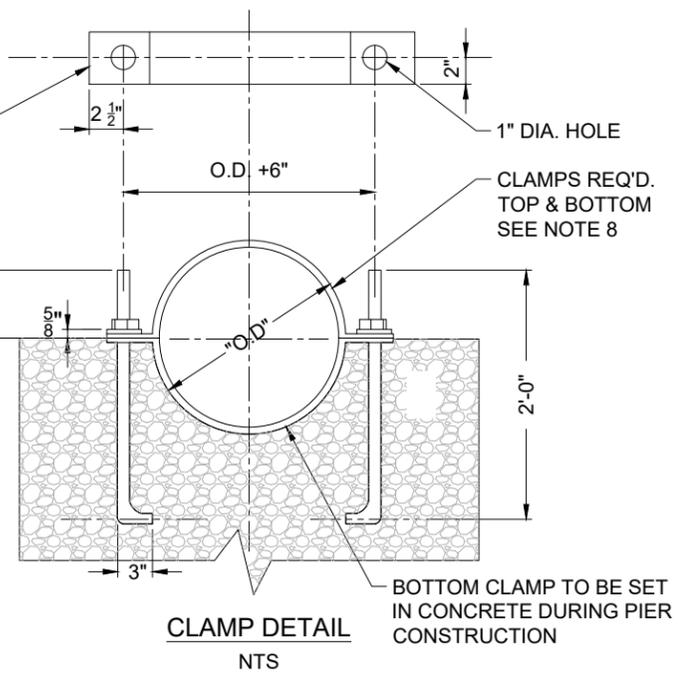
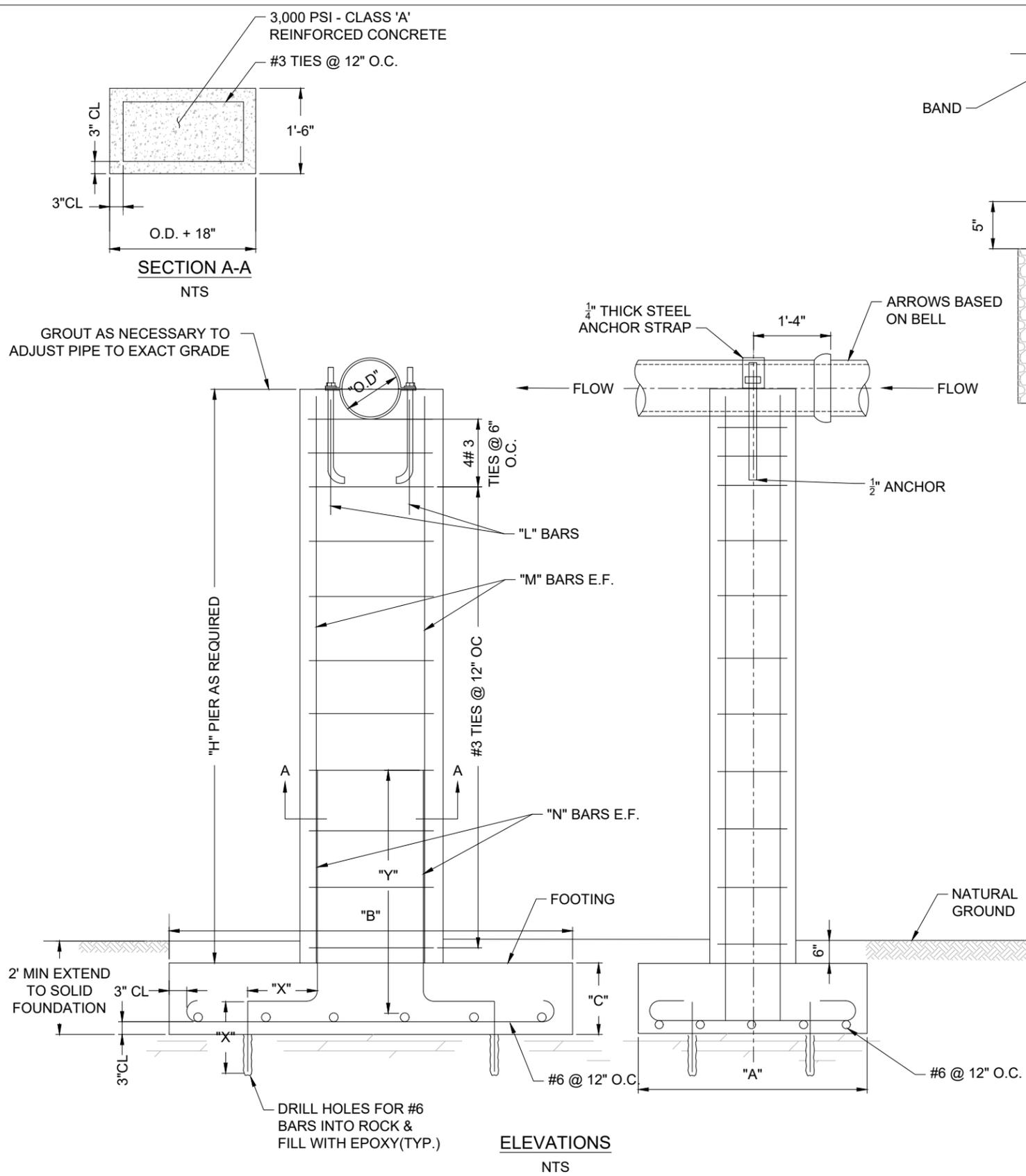
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DRAWING NO.

402



- NOTES:**
1. SEE DRAWING 403C FOR FOOTING DIMENSIONS AND REINFORCEMENT TABLE.
 2. PIER LOCATION DETERMINED BY ENGINEER.
 3. UNDER UNSTABLE CONDITIONS, ENGINEER PLANS FOR PIER DESIGN MUST BE SUBMITTED TO & APPROVED BY THE PUBLIC WORKS DEPARTMENT.
 4. PLACE PIERS AT EVERY BELL.
 5. ENGINEER TO SUBMIT PIER DESIGN.
 6. STEEL REINFORCEMENT TO BE A.S.T.M DESIGNATION A -15 - 54T UNLESS OTHERWISE SPECIFIED, BENDS IN BARS TO CONFORM TO A.C.I. STANDARD.
 7. PRECAST PIERS ARE ALLOWED PER PERMISSION OF COUNTY ENGINEER.
 8. PROVIDE 1/8 - INCH MINIMUM NEOPRENE PAD BETWEEN PIPE AND CLAMPS.

ELEVATIONS
NTS

TOP VIEW OF PIER CONNECTION
NTS

**FULTON COUNTY STANDARD DETAIL 403B
CONCRETE PIER AND FOOTING DETAIL
ON ROCK**

DATE	REVISIONS	DATE	REVISIONS

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DRAWING NO.
403B

403B-S.dwg December 08, 2025 1:14pm

NOTES:

- SEE DRAWING 403A & 403B FOR THE RELATED DETAILS.

TABLE 403C-1 CONCRETE PIER AND FOOTING DETAIL TABLE															
STANDARD REINFORCEMENT PIER															
FOOTING DIMENSIONS AND REINFORCEMENT								PIER REINFORCEMENT							
PIER	FOOTING			NO. OF #5 BARS EA. DIRECTION				BARS M			BARS N				
	H	A	B	C	8" & 10"D	12" & 14"D	16" & 18"D	20" & 24"D	NO.	SIZE	LENGTH	NO.	.7	LENGTH	X
0'-4'	3'-0"	6'-0"	1'-3"	5	5	5	5	NONE			6	#6	H+2'-0"	1'-9"	H + 10"
5'	3'-0"	6'-2"	1'-3"	5	5	5	5	NONE			6	#6	H+2'-0"	1'-9"	H + 10"
6'	3'-0"	6'-4"	1'-3"	5	5	5	5	4	#6	4'-10"	6	#6	5'-4"	1'-9"	4'-2"
7'	3'-0"	6'-6"	1'-3"	5	5	5	6	4	#6	5'-10"	6	#6	5'-4"	1'-9"	4'-2"
8'	3'-0"	6'-8"	1'-3"	5	5	5	6	4	#6	7'-10"	6	#6	5'-4"	1'-9"	4'-2"
9'	3'-0"	6'-10"	1'-3"	5	5	6	7	4	#6	8'-10"	6	#6	5'-4"	1'-9"	4'-2"
10'	4'-0"	7'-0"	1'-3"	5	5	6	7	4	#6	9'-10"	6	#6	5'-4"	1'-9"	4'-2"
11'	4'-2"	7'-2"	1'-3"	5	5	7	8	4	#6	10'-10"	6	#6	5'-4"	1'-9"	4'-2"
12'	4'-4"	7'-4"	1'-3"	5	5	7	8	4	#6	11'-10"	6	#6	5'-4"	1'-9"	4'-2"
13'	4'-6"	7'-6"	1'-6"	5	6	7	8	4	#6	12'-10"	6	#6	5'-7"	1'-9"	4'-5"
14'	4'-8"	7'-8"	1'-6"	6	6	8	9	4	#6	13'-10"	6	#6	5'-7"	1'-9"	4'-5"
15'	4'-10"	7'-10"	1'-6"	6	6	8	9	4	#6	14'-10"	6	#6	5'-7"	1'-9"	4'-5"
16'	5'-0"	8'-0"	1'-6"	6	6	8	10	4	#6	15'-10"	6	#6	5'-7"	1'-9"	4'-5"
17'	5'-2"	8'-2"	1'-6"	6	7	9	10	4	#6	16'-10"	6	#6	5'-7"	1'-9"	4'-5"
18'	5'-4"	8'-4"	1'-6"	7	8	9	11	4	#6	17'-10"	6	#6	5'-7"	1'-9"	4'-5"
19'	5'-6"	8'-6"	1'-6"	7	8	10	12	4	#6	18'-10"	6	#6	5'-7"	1'-9"	4'-5"
20'	5'-8"	8'-8"	1'-6"	7	9	10	12	4	#6	19'-10"	6	#6	5'-7"	1'-9"	4'-5"
21'	5'-10"	8'-10"	1'-6"	8	9	11	13	4	#6	19'-10"	6	#6	6'-0"	1'-9"	4'-9"
22'	6'-0"	9'-0"	1'-6"	9	10	12	13	4	#6	19'-10"	6	#6	7'-0"	1'-9"	5'-9"
23'	6'-2"	9'-2"	1'-6"	9	10	12	13	4	#6	19'-10"	6	#6	8'-0"	1'-9"	6'-9"
24'	6'-4"	9'-4"	1'-6"	10	11	13	15	4	#6	19'-10"	6	#6	9'-0"	1'-9"	7'-9"
25'	6'-6"	9'-6"	1'-6"	10	11	14	16	4	#6	19'-10"	6	#6	11'-0"	1'-9"	9'-3"
26'	6'-8"	9'-8"	1'-6"	11	12	15	16	4	#6	19'-10"	6	#6	12'-0"	1'-9"	10'-3"
27'	6'-10"	9'-10"	1'-6"	12	13	16	17	4	#6	19'-10"	6	#6	13'-0"	1'-9"	11'-3"
28'	7'-0"	10'-0"	1'-6"	12	13	16	18	4	#6	19'-10"	6	#6	14'-0"	1'-9"	12'-3"

TABLE 403C-2 BARS "L" TABLE			
H	NO - SIZE LENGTH		
0' - 4'	NONE		
4' - 28'	2	#6	2'-6"

FULTON COUNTY STANDARD DETAIL 403C
CONCRETE PIER AND FOOTING DETAIL TABLE

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
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 DATE: 01-21-2026

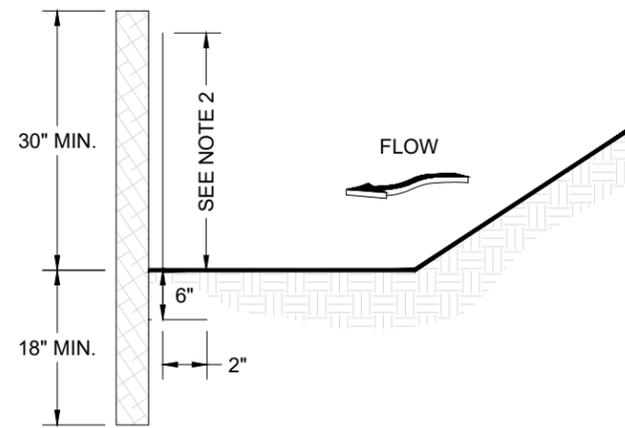


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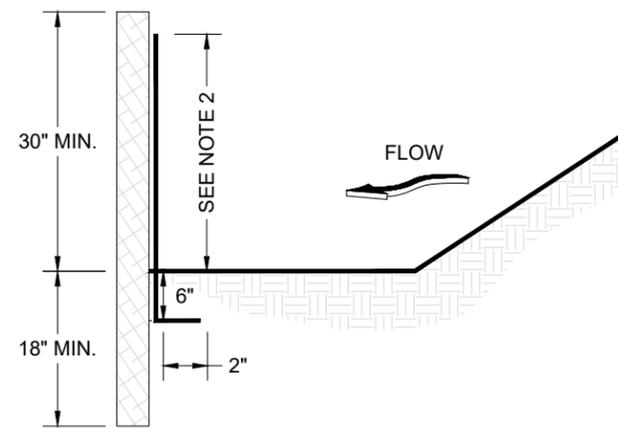
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403C

NOTES:

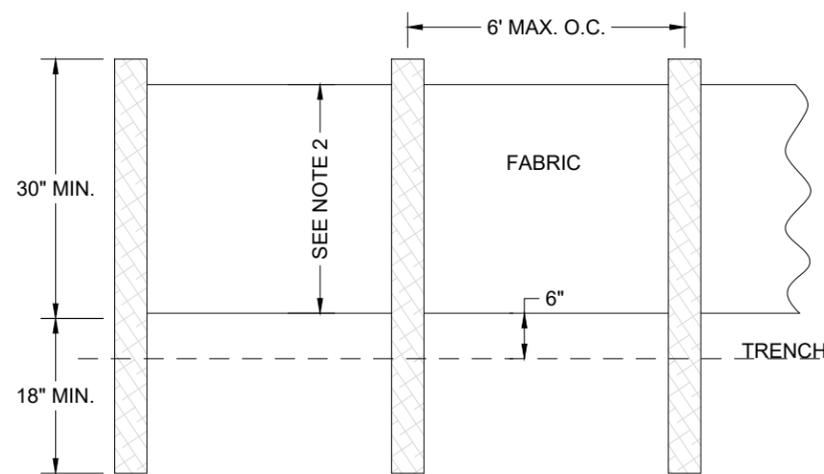
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
2. HEIGHT OF SILT FENCE IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
3. THE FABRIC AND WIRE SHOULD BE SECURELY FASTENED TO POSTS AND FABRIC ENDS MUST BE OVERLAPPED A MINIMUM OF 18" OR WRAPPED TOGETHER AROUND A POST TO PROVIDE A CONTINUOUS FABRIC BARRIER AROUND THE INLET.



SIDE VIEW

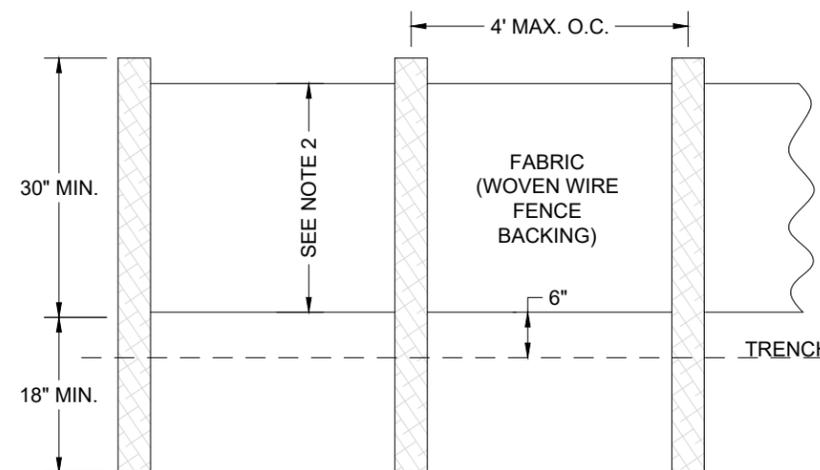


SIDE VIEW



FRONT VIEW

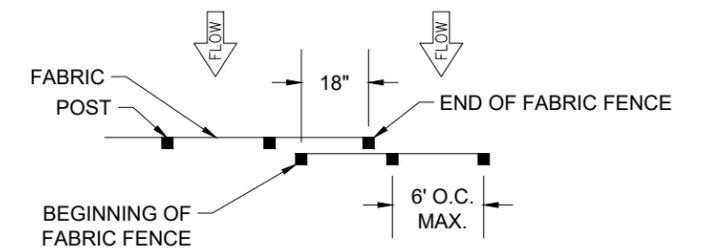
SILT FENCE - TYPE NON-SENSITIVE



FRONT VIEW

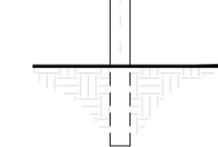
SILT FENCE - TYPE SENSITIVE

OVERLAP AT FABRIC ENDS

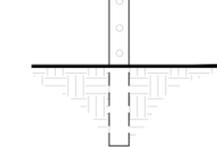


TOP VIEW
N.T.S.

WOOD POST WITH STAPLE PLACEMENT



WOOD POST WITH NAIL PLACEMENT



FRONT VIEWS
N.T.S.

FULTON COUNTY STANDARD DETAIL 404

TEMPORARY SILT FENCE

DATE	REVISIONS	DATE	REVISIONS

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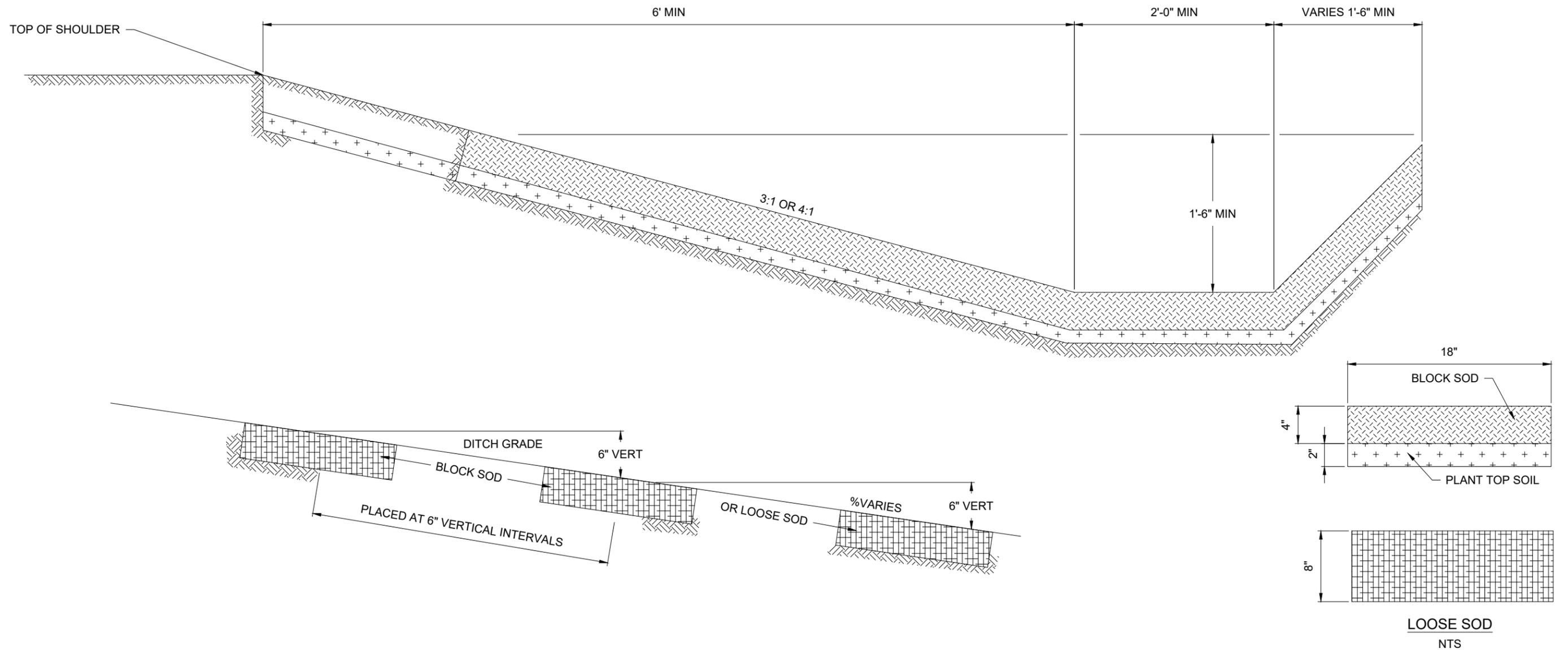
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DRAWING NO.

404

NOTES:

- SOD DITCH CHECKS MAY BE OF LOOSE SOD OR BLOCK SOD. SOD DITCH CHECKS TO BE PLACED AT 6" VERTICAL INTERVALS. THIS STANDARD TO BE USED WHERE EROSION IN ROADSIDE DITCHES IS EXCESSIVE DUE TO TYPE OF SOIL OR GRADE.
- RIP RAP CHECK DAMS TO BE PLACED AS NECESSARY DEPENDING ON GRADE OF DITCH.



FULTON COUNTY STANDARD DETAIL 405

DETAIL OF SOD DITCH

DATE	REVISIONS	DATE	REVISIONS

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 APPROVED: TM
 DATE: 01-21-2026



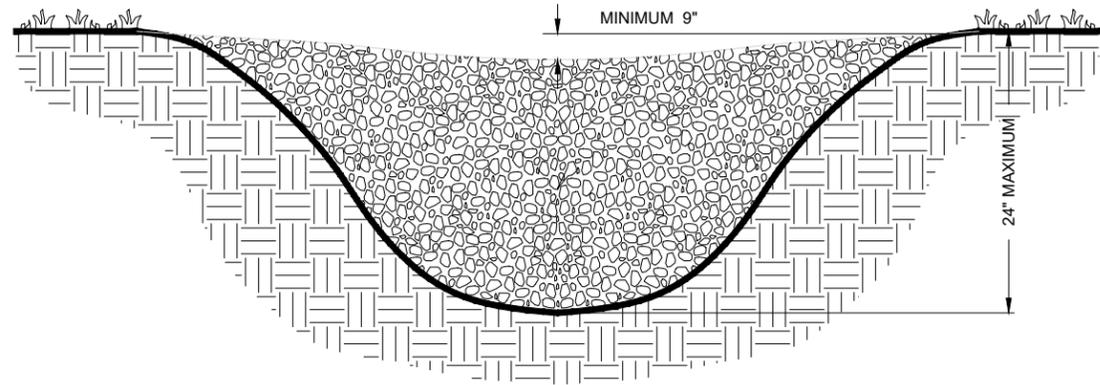
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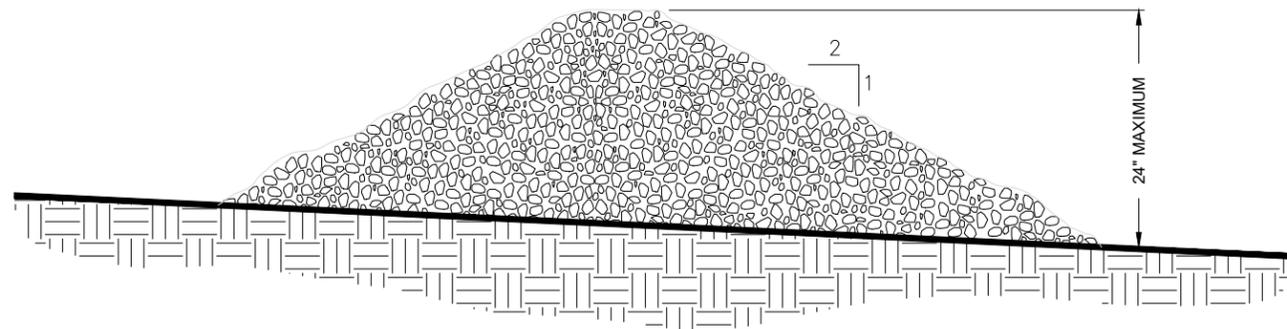
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NOTES:

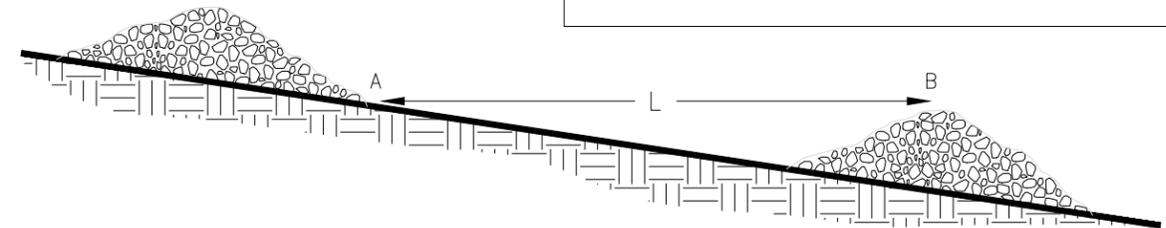
1. USE AND LOCATION OF CHECK DAMS SHALL BE AS DIRECTED BY INSPECTOR.
2. CHECK DAMS ARE TO BE USED ONLY IN SMALL OPEN CHANNELS (THEY ARE NOT TO BE USED IN LIVE STREAMS).
3. THE DRAINAGE AREA FOR STONE CHECK DAMS SHALL NOT EXCEED TWO ACRES.
4. THE CENTER OF THE CHECK DAM MUST BE AT LEAST 9 INCHES LOWER THAN THE OUTER EDGES.
5. THE DAM HEIGHT SHOULD BE A MAXIMUM OF 2 FEET FROM CENTER TO RIM EDGE.
6. THE SIDE SLOPES OF THE CHECK DAM SHALL NOT EXCEED A 2:1 SLOPE.
7. GEOTEXTILE SHALL BE USED TO PREVENT THE MITIGATION OF SUBGRADE SOIL PARTICLES INTO THE STONES (REFER TO AASHTO M288-96, SECTION 7.3, TABLE 3).



CROSS SECTION



PROFILE VIEW



A. THE TOE OF THE UPSTREAM CHECK DAM.
 B. TOP OF THE DOWNSTREAM CHECK DAM.
 L. THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION.

SPACING BETWEEN CHECK DAMS

FULTON COUNTY STANDARD DETAIL 407

EROSION CONTROL
STONE CHECK DAMS

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
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DRAWING NO.

407

DWG. NO.	DESCRIPTION
500	INDEX AND GENERAL NOTES
501	CATCH BASIN SINGLEWING ONE FOOT OFFSET (FACE OF CURB)
502	CATCH BASIN DOUBLE WING ONE FOOT OFFSET (FACE OF CURB)
503	CATCH BASIN WITH ROLLED CURB & GUTTER 10" OFFSET (PRIVATE DEVELOPMENT ONLY)
504	SINGLE WING ON - LINE CATCH BASIN (BRICK)
505	DOUBLE WING ON - LINE CATCH BASIN
506	CATCH BASIN TOPS
507	STANDARD PRECAST ROUND CATCH BASINS
508	LOCATION OF ROUND CATCH BASIN
509	DROP INLETS, BRICK & CATCH BASIN EXTENSION
510	DROP INLETS, CONCRETE DETAILS FOR PAVED SECTIONS ONLY
511	DROP INLET DIMENSIONS
512	DROP INLETS (WEIR TYPE)
513	REINFORCED PLASTIC STEP
514	PRECAST CONCRETE HEADWALL SYSTEMS (INLET & OUTLET HEADWALLS)
515	INLET & OUTLET HEADWALLS
516	ENERGY DISSIPATOR (ALTERNATE)
518	STRUCTURAL PLATE PIPE ARCH CULVERT
519A	STANDARD PIPE CULVERTS SHEET 1 OF 3
519B	PIPE CULVERTS SHEET 2 OF 3
519C	PIPE CULVERTS SHEET 3 OF 3
520	STANDARD PERFORATED UNDERDRAIN
521	PIPE GAUGE AND CLASS (CONCRETE & CORRUGATED STEEL PIPE)
522	EARTH FILL DAM FOR DETENTION PONDS
523	FENCE DETAIL FOR DETENTION PONDS SHEET 1 OF 2
524	FENCE DETAIL FOR DETENTION PONDS SHEET 2 OF 2

500-S.dwg December 08, 2025 2:41pm

FULTON COUNTY STANDARD DETAIL 500
INDEX AND GENERAL NOTES

DATE	REVISIONS	DATE	REVISIONS

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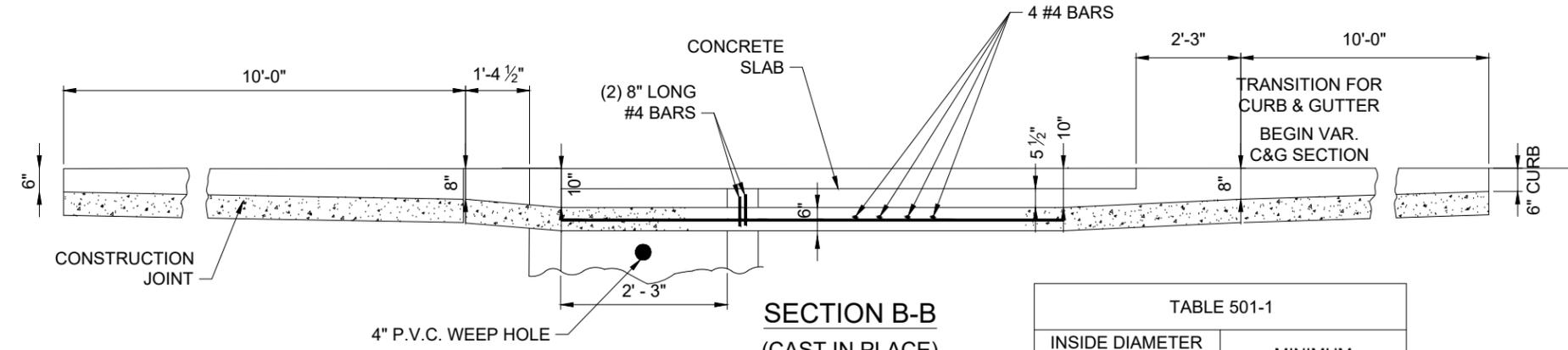
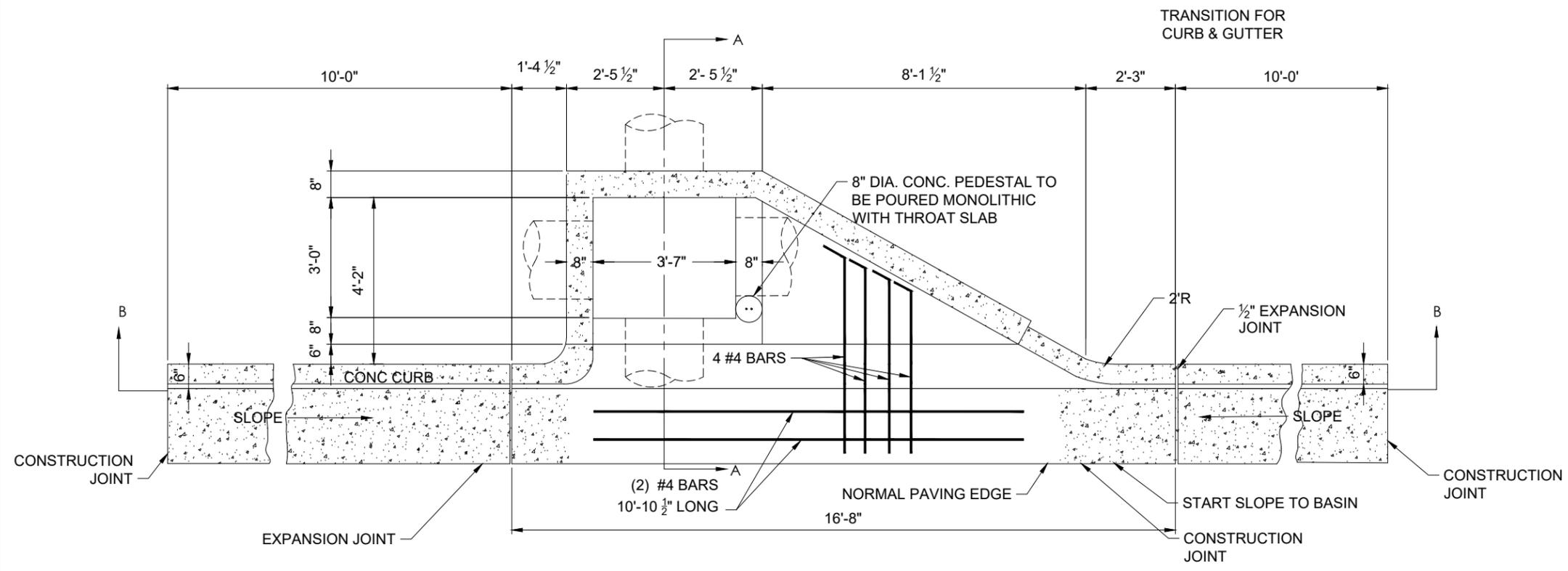


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500

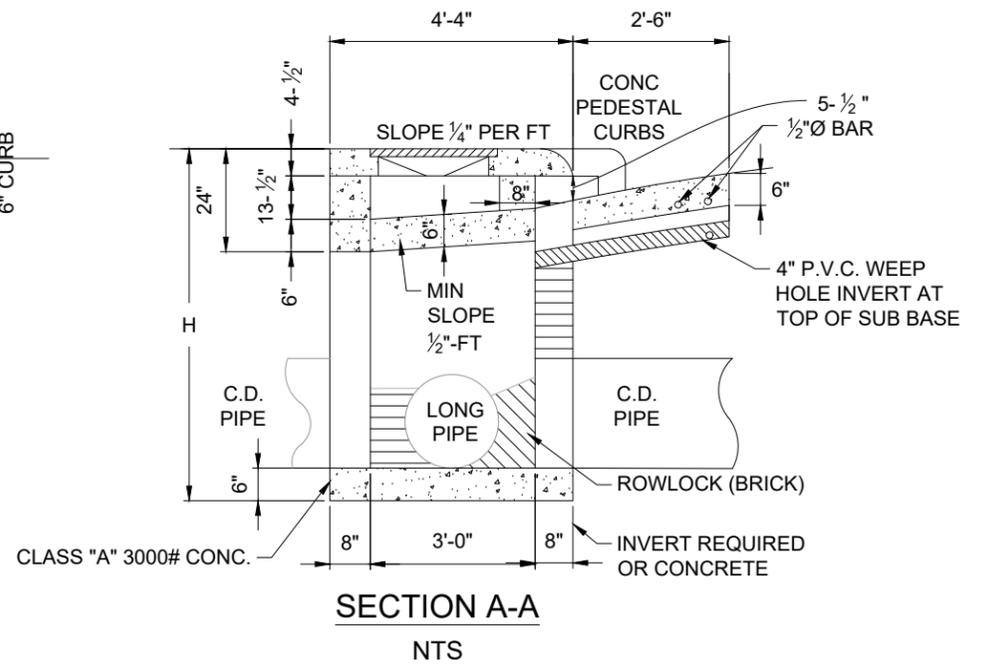
NOTES:

1. FOR ALL CATCH BASINS, 1/2" EXPANSION JOINT MATERIAL SHALL BE PLACED AROUND THE CATCH BASIN WHERE SIDEWALK OR MEDIAN PAVEMENT IS PLACED ADJACENT TO THE CATCH BASIN IN ANY SUBDIVISION THE OPTION IS TO USE EITHER ALL ONLINE CATCH BASINS OR ALL ONE FOOT OFFSET CATCH BASINS.
2. CONCRETE STRENGTH TEST REQUIRED FOR ALL POURED IN PLACE CONCRETE.
3. ALL POURED-IN-PLACE CONC. TO BE CLASS "A" 3000 P.S.I.
4. PLASTIC COATED STEEL STEPS ARE REQUIRED IN ALL CATCH BASINS.
5. SEE STANDARD DWG. 513 FOR STAIR DETAIL.



SECTION B-B
(CAST IN PLACE)
NTS

TABLE 501-1	
INSIDE DIAMETER OF PIPE (IN.)	MINIMUM "H"
18	4' - 10"
24	5' - 6"
30	6' - 2"
36	6' - 10"
42	7' - 4"
48	8' - 0"
54	8' - 6"
60	9' - 2"



SECTION A-A
NTS

FULTON COUNTY STANDARD DETAIL 501
CATCH BASIN SINGLEWING
ONE FOOT OFFSET (FACE OF CURB)

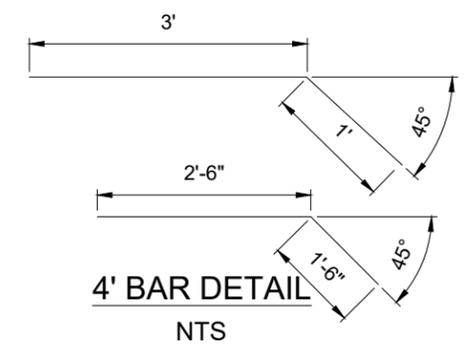
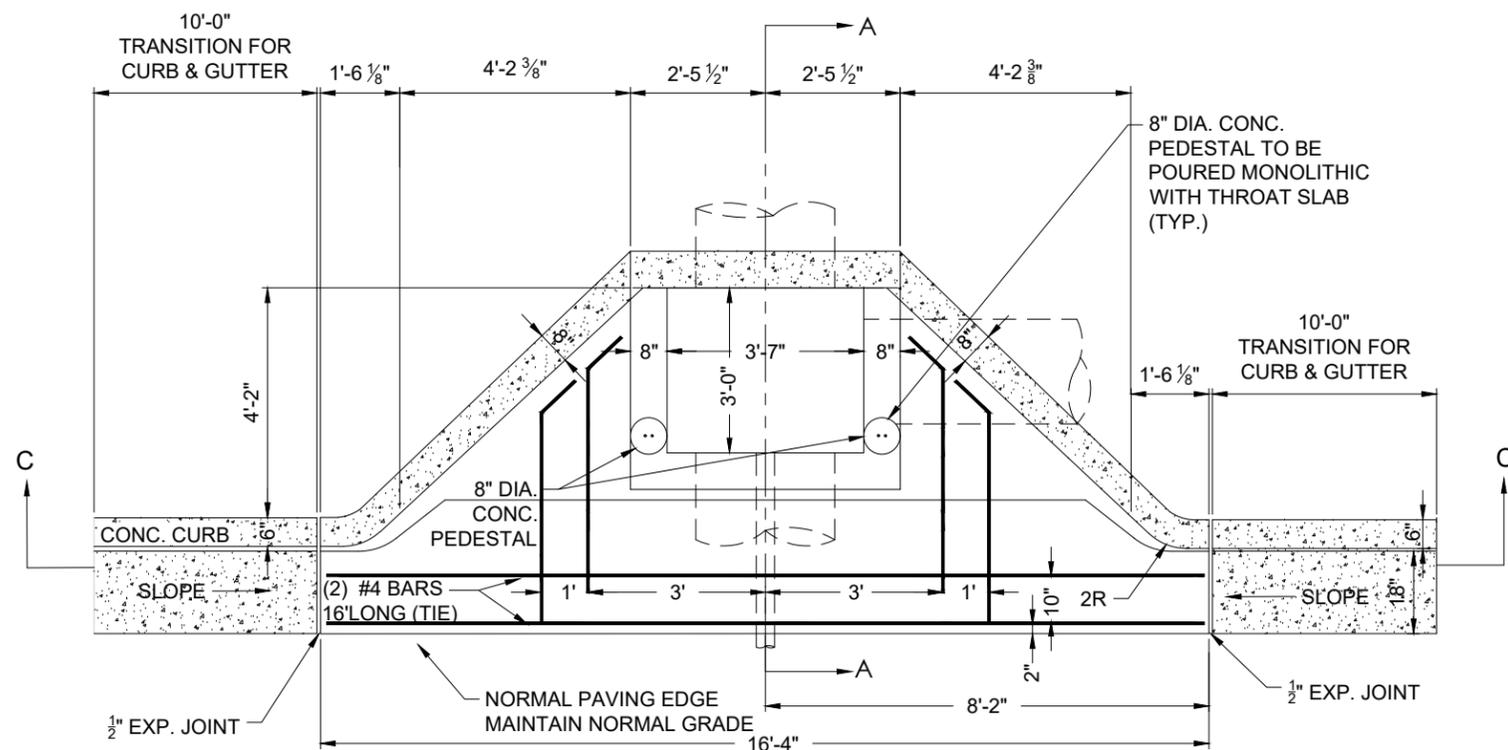
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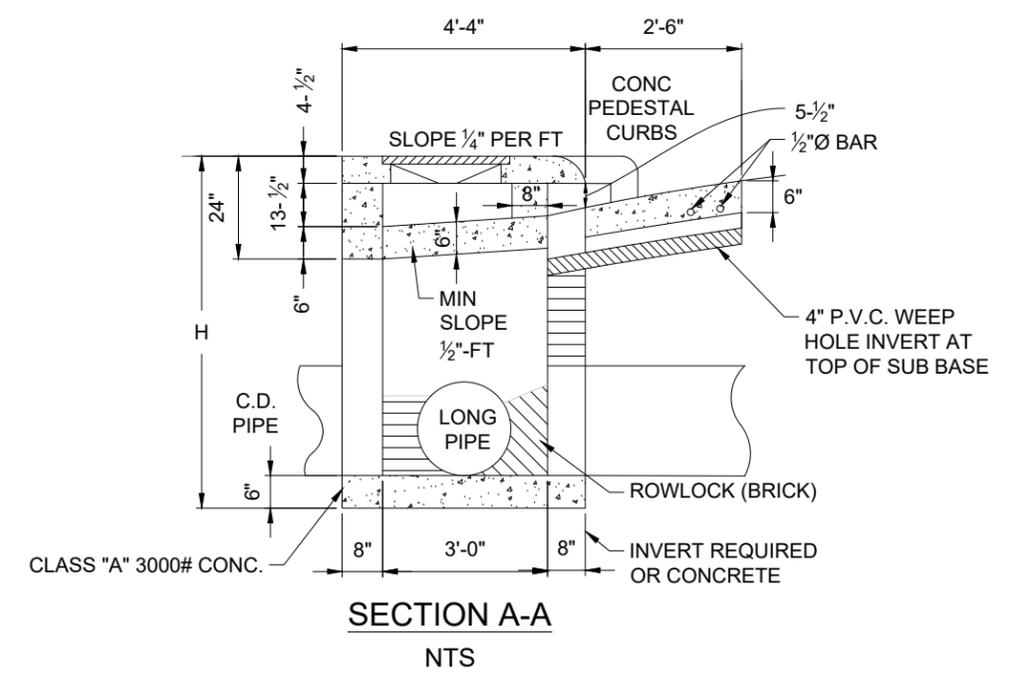
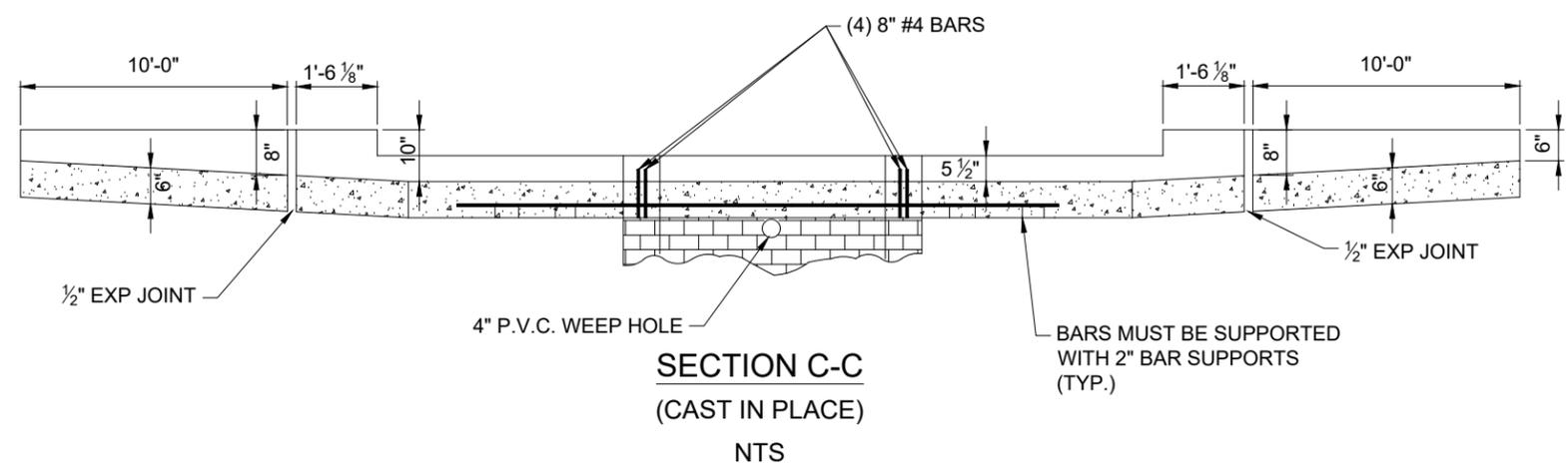
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501



- NOTES:**
1. CONCRETE STRENGTH TEST REQUIRED FOR ALL POURED IN PLACE CONCRETE.
 2. FOR ALL CATCH BASINS, $\frac{1}{2}$ " EXPANSION JOINT MATERIAL SHALL BE PLACED AROUND THE CATCH BASIN WHERE SIDEWALK OR MEDIAN PAVEMENT IS PLACED ADJACENT TO THE CATCH BASIN.
 3. IN ANY SUBDIVISION, THE OPTION IS TO USE EITHER ALL ONLINE CATCH BASINS OR ALL ONE FOOT OFFSET CATCH BASINS.
 4. ONE FOOT OFFSET REQUIRED IN ALL CUL-DE-SACS.
 5. PLASTIC COATED STEEL STEPS ARE REQUIRED IN ALL CATCH BASINS.
 6. SEE STANDARD DWG. 513 FOR STAIR DETAIL.
 7. ALL POURED-IN-PLACE CONC. TO BE CLASS "A" 3000 P.S.I.

TABLE 502-1

INSIDE DIAMETER OF PIPE (IN.)	MINIMUM "H"
12-18	4' - 10"
24	5' - 6"
30	6' - 2"



FULTON COUNTY STANDARD DETAIL 502
 CATCH BASIN DOUBLEWING
 ONE FOOT OFFSET (FACE OF CURB)

DATE	REVISIONS	DATE	REVISIONS

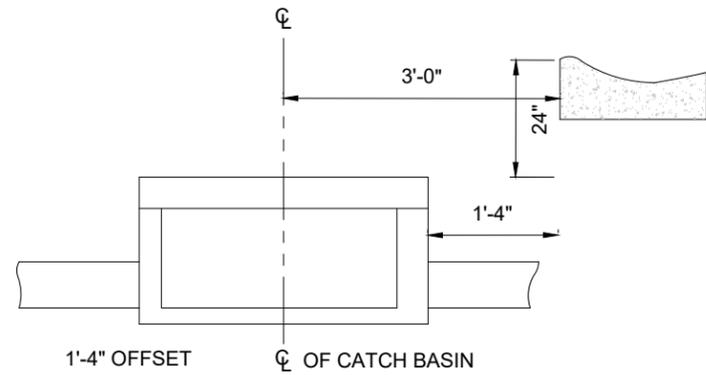
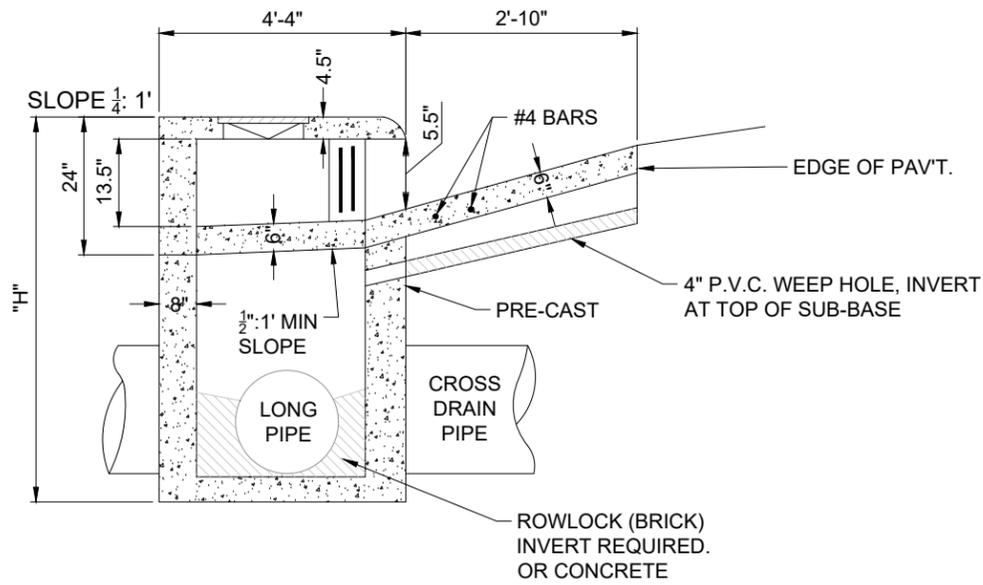
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DRAWING NO.
502

502-S.dwg December 08, 2025 2:42pm

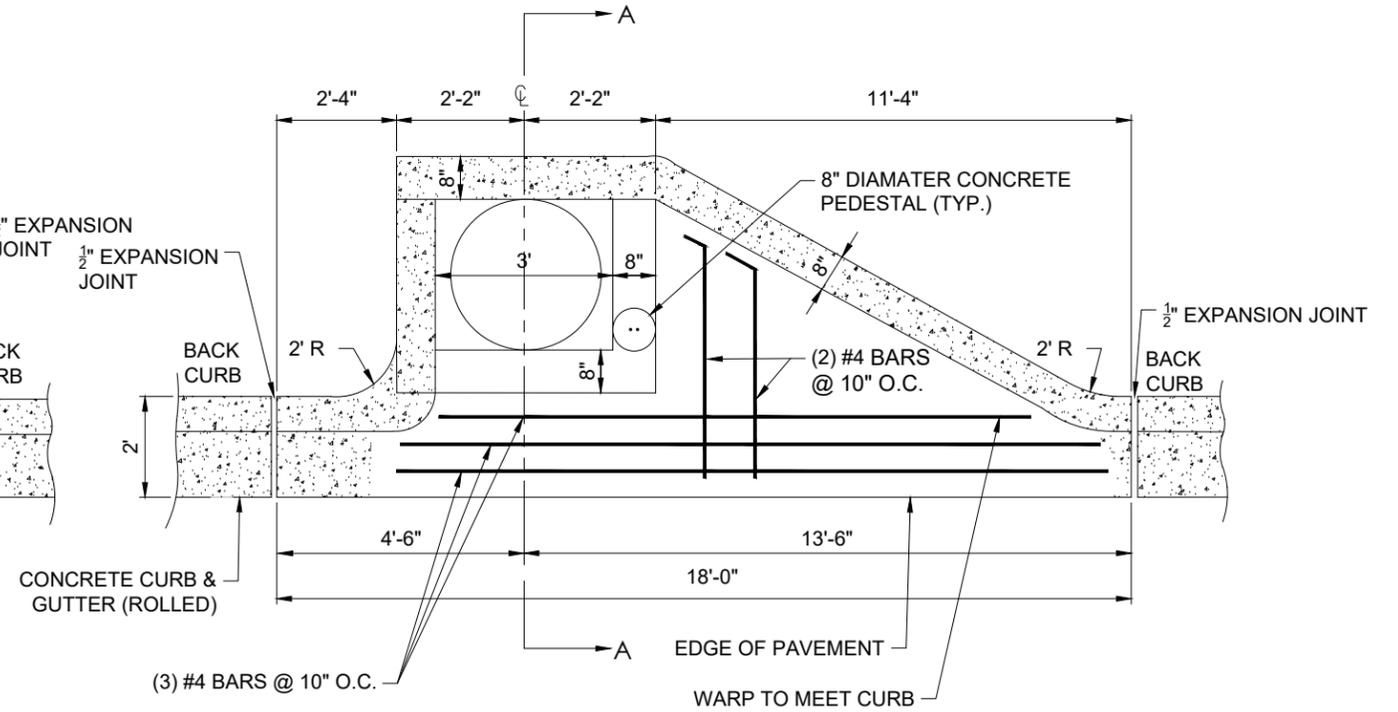
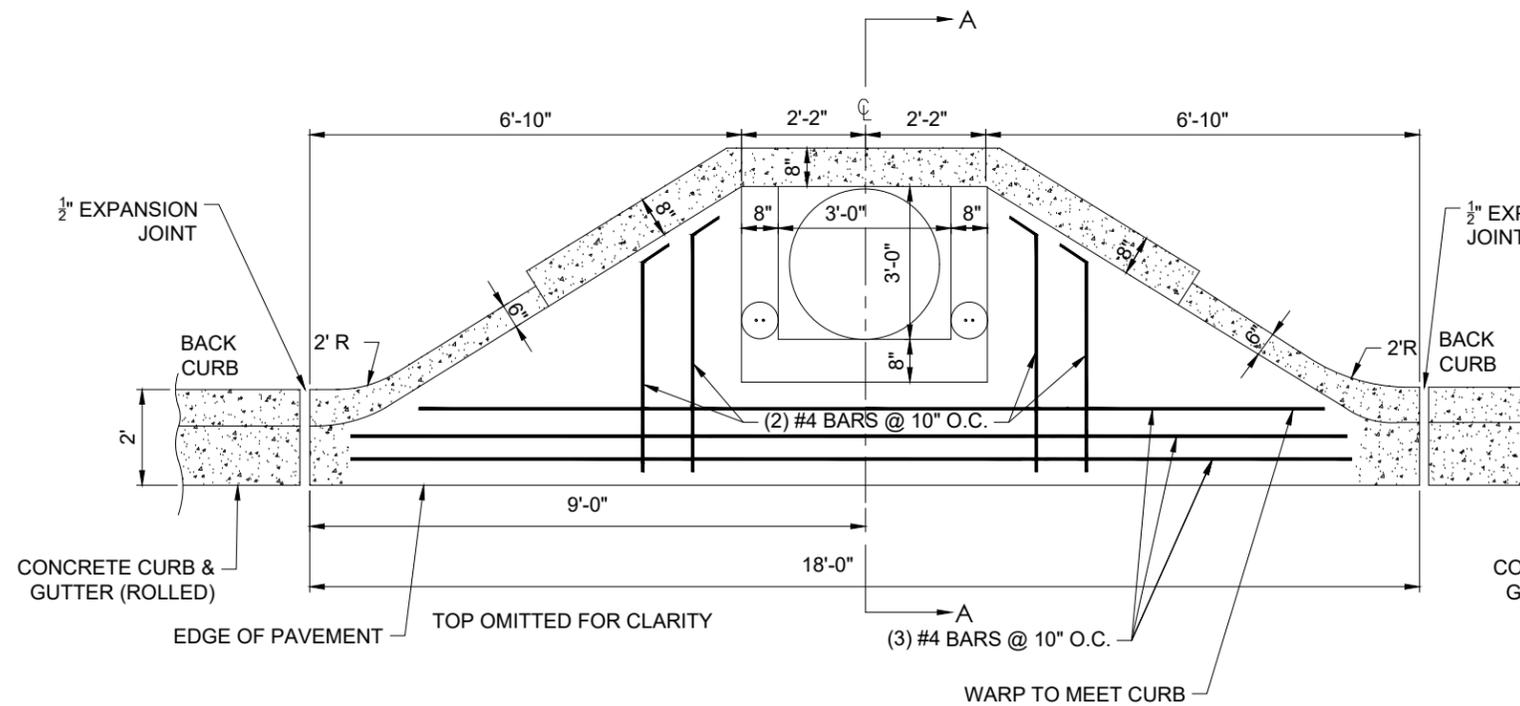


NOTES:

1. OPENING FOR CATCH BASINS TO BE 5-1/2" TO 7" MAXIMUM.
2. TOTAL DIMENSIONS FOR TOPS ± 2" (LENGTH) ± 2" (WIDTH).
3. COLLAR WALLS - FULL 360° - REQUIRED AT ALL JUNCTURES OF STORM PIPE TO BOXES.
4. IF THE DESIGN OF CATCH BASIN DOES NOT MEET THE REQUIREMENTS - YOU MAY NOT USE PRE - CAST STRUCTURES AND THE CATCH BASIN MUST BE BUILT OUT OF BRICK.

SECTION A-A
(N.T.S.)

TABLE 503-1	
PIPE SIZE	"H"
18"	5' - 0"
24"	5' - 6"
30"	6' - 0"



**FULTON COUNTY STANDARD DETAIL 503
CATCH BASINS WITH ROLLED CURB & GUTTER
10" OFFSET
(PRIVATE DEVELOPMENT ONLY)**

DATE	REVISIONS	DATE	REVISIONS

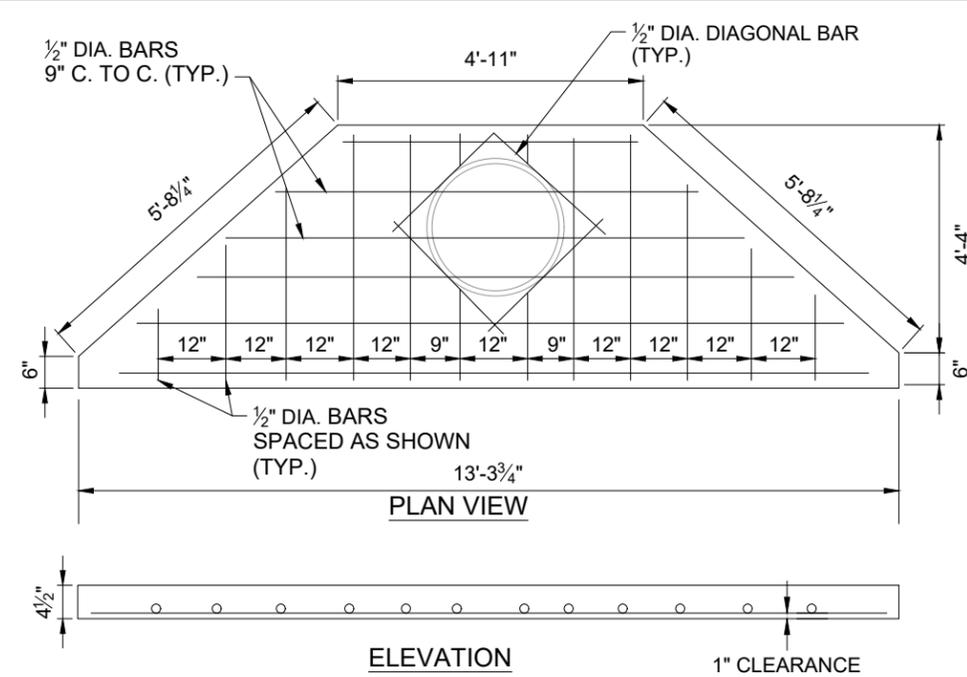
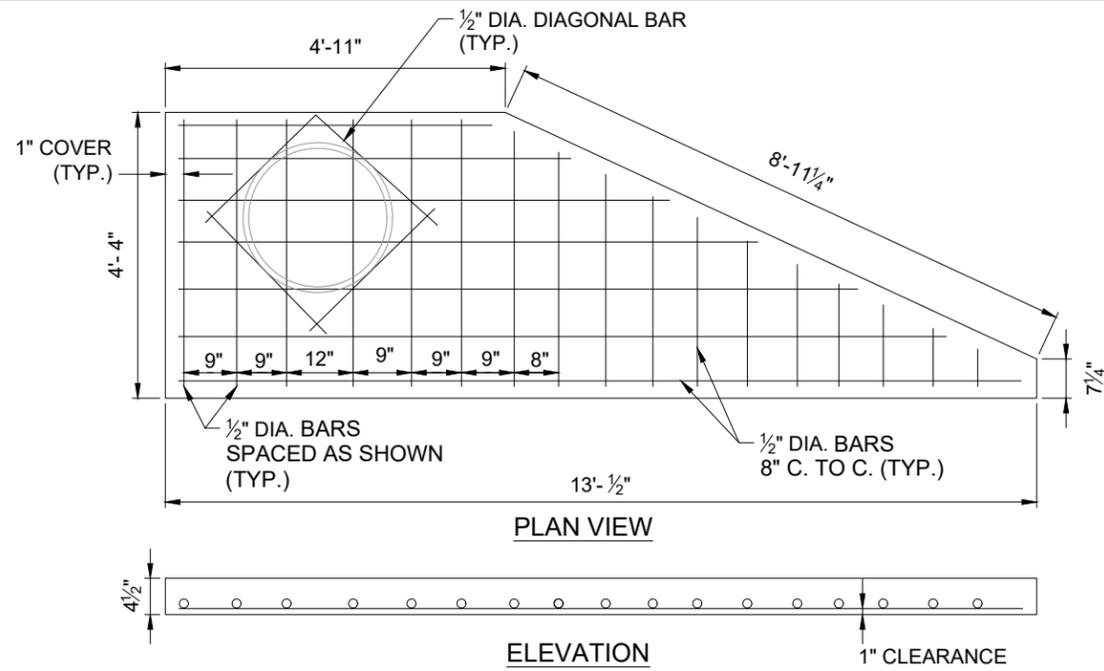
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APPROVED: TM
DATE: 01-21-2026



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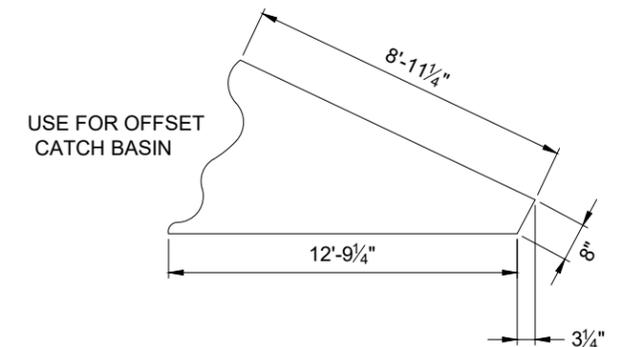
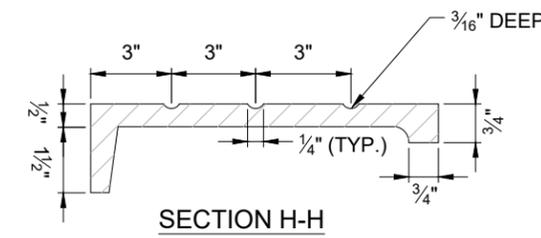
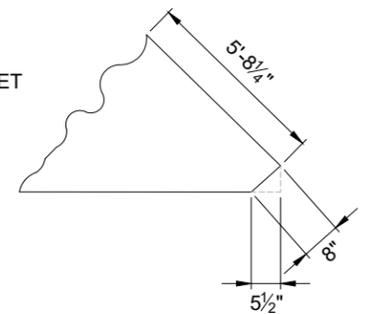
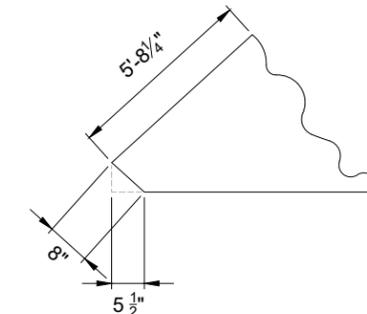
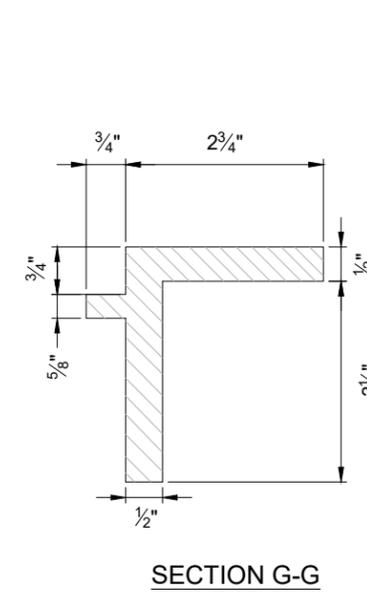
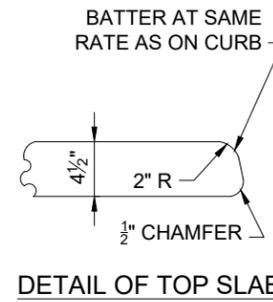
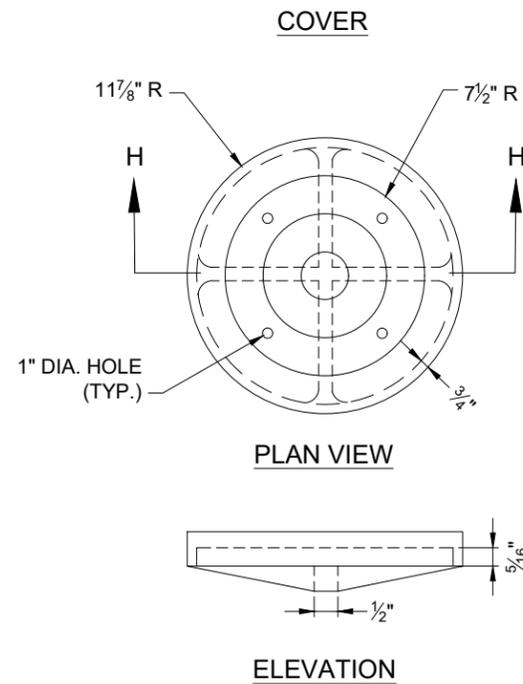
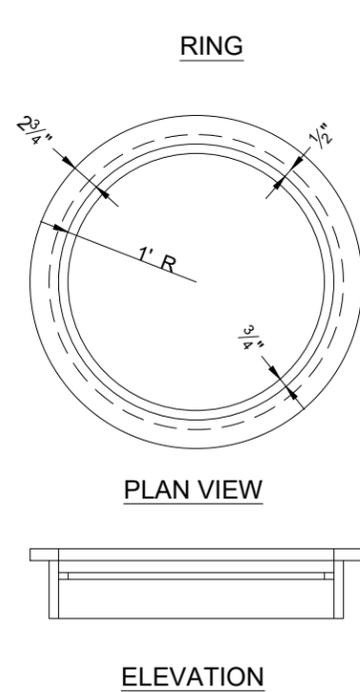
DRAWING NO.

503



NOTES:

- G.D.O.T. STANDARD #1033D IS ALLOWABLE ALTERNATIVE.
- G.D.O.T. STANDARD #1034D IS ALLOWABLE ALTERNATIVE.
- APPROXIMATE WEIGHTS OF MANHOLE AND FRAME:
CAST IRON RING 78 LBS
CAST IRON COVER 63 LBS
- TOP SLAB TO HAVE WOOD FLOAT FINISH.



FULTON COUNTY STANDARD DETAIL 506
CATCH BASIN TOPS

DATE	REVISIONS	DATE	REVISIONS

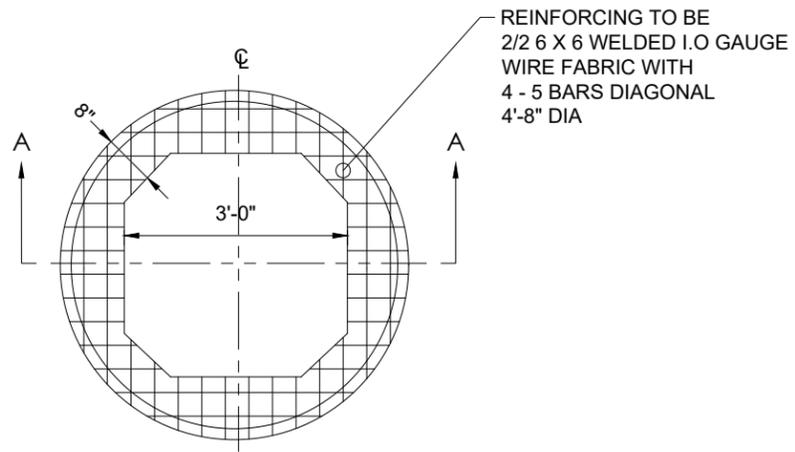
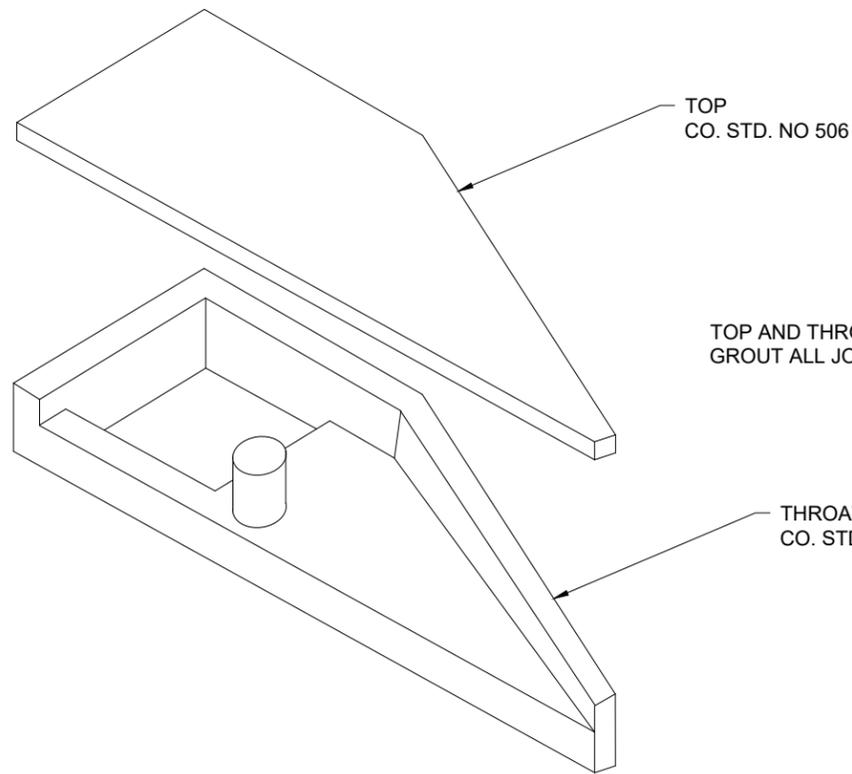
DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026



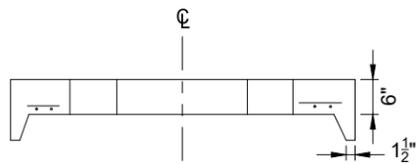
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DRAWING NO.
506

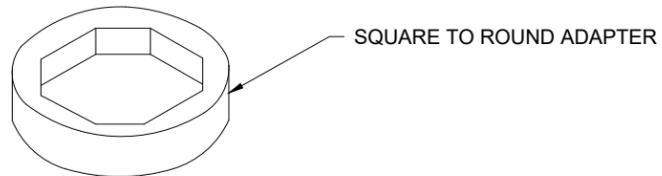
507-S.dwg December 08, 2025 2:42pm



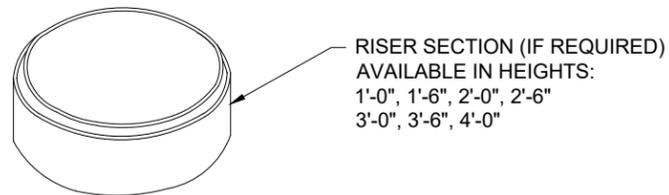
ROUND TO SQUARE ADAPTER



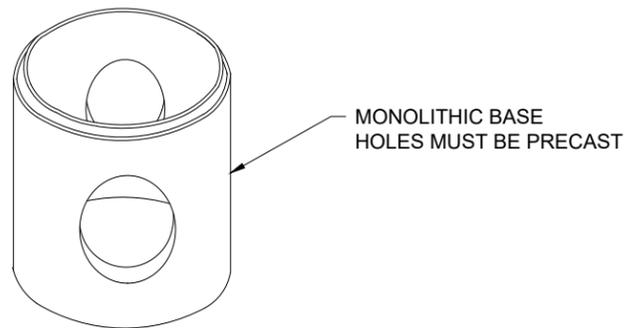
SECTION A-A



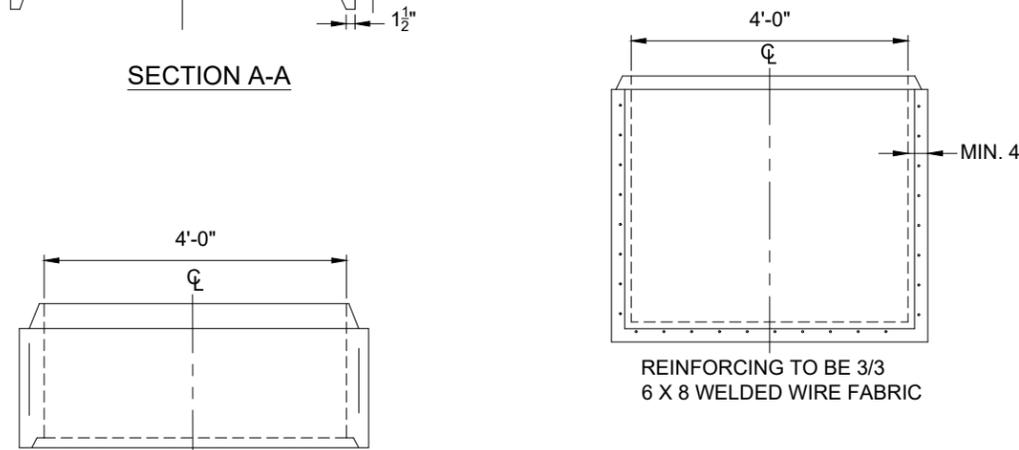
SQUARE TO ROUND ADAPTER



RISER SECTION (IF REQUIRED)
AVAILABLE IN HEIGHTS:
1'-0", 1'-6", 2'-0", 2'-6"
3'-0", 3'-6", 4'-0"



MONOLITHIC BASE
HOLES MUST BE PRECAST



REINFORCING TO BE 2/2
6 X 6 WELDED WIRE FABRIC

RISER

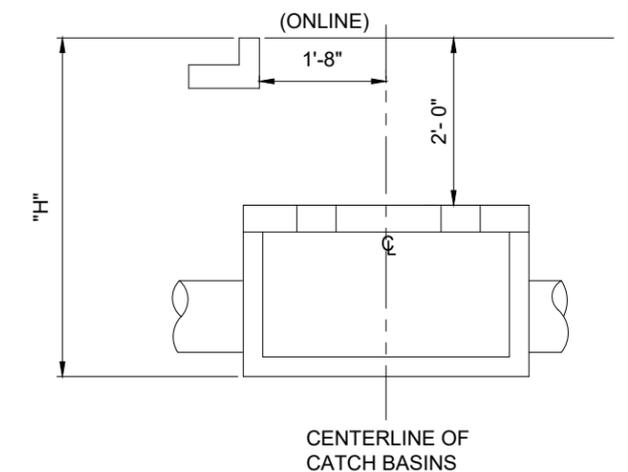
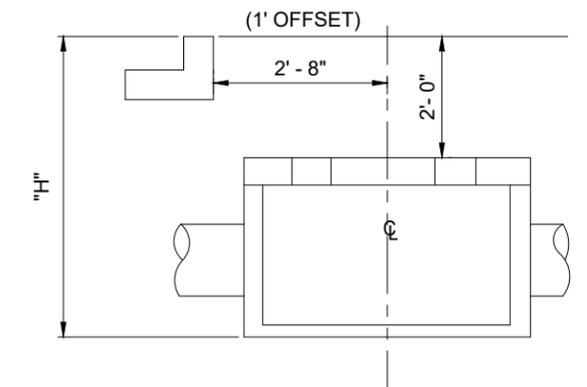
REINFORCING TO BE 3/3
6 X 8 WELDED WIRE FABRIC

BASE HEIGHT	METAL PIPE	CONC. PIPE	*H (MIN.)
4' DIA - 2' - 6"	18"	12"	5" - 0"
3' - 0"	24"	18"	5" - 6"
3' - 6"	30"	24"	6" - 0"
4' - 0"		30"	6' - 6"

*OTHERWISE BOX MUST BE BUILT OUT OF BRICK

NOTES:

- CATCH BASIN SHALL BE INSTALLED WITH PIPE OPENING AS SPECIFIED.
- STEPS TO BE INSTALLED ON 15" VERTICAL SPACING.
- SEE PRECAST MANHOLE STANDARD FOR SPECIFICATIONS.
- ALL CONCRETE SHALL BE 4,000 PSI.
- FOR ROLLED CURB & GUTTER, SEE STD. NO. 503-B FOR BOX LOCATION.



FULTON COUNTY STANDARD DETAIL 507
STANDARD PRECAST ROUND CATCH BASINS

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026



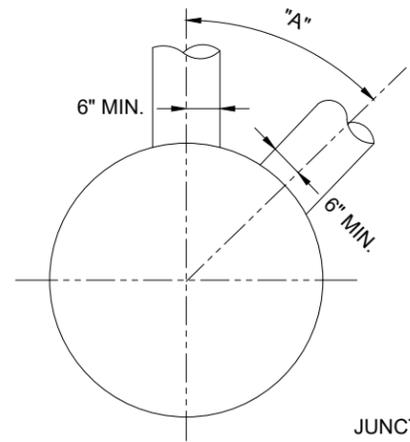
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DRAWING NO.

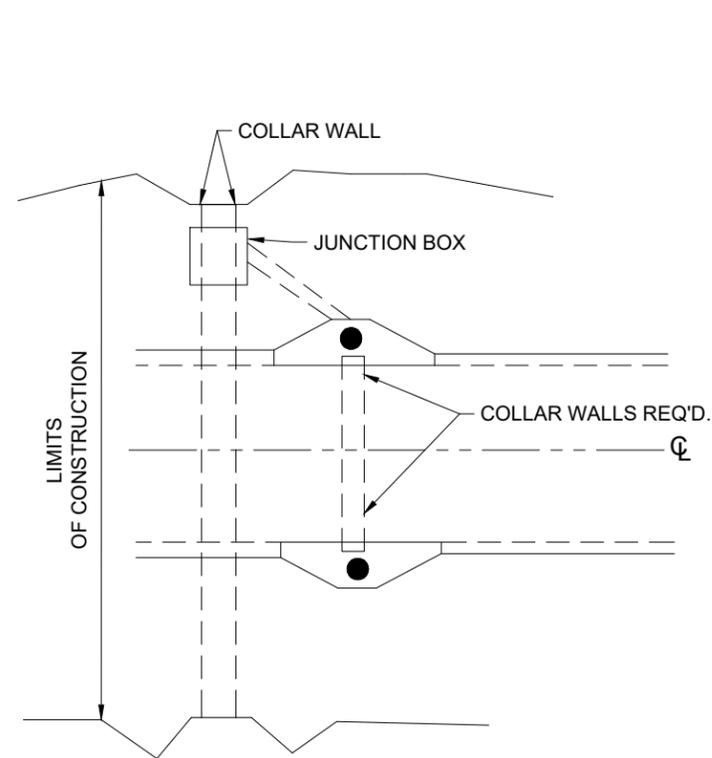
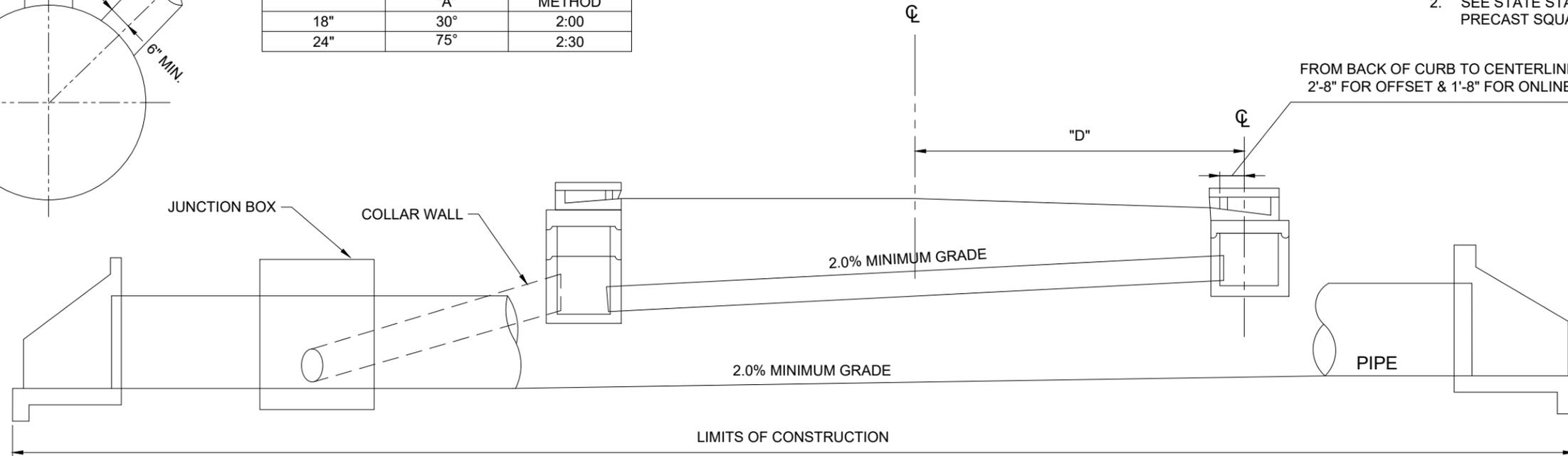
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NOTES:

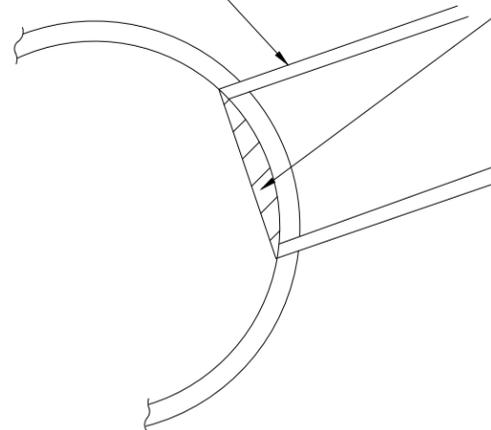
1. TABLE 508-1 IS BASED ON TWO PIPES OF EQUAL SIZE. WHEN ORDERING STATE ANGLE BY CLOCK METHOD. REQUEST ONE PIPE AT 12 O'CLOCK AND THE OTHER SIZE AND TIME AT WHATEVER ON THE JOB CONDITIONS REQUIRE.
2. SEE STATE STANDARD NO. 1033 D, E & F. OR 1034 D & E FOR PRECAST SQUARE CATCH BASIN.



PIPE SIZE	ANGLE "A"	CLOCK METHOD
18"	30°	2:00
24"	75°	2:30



360° COLLAR WALL REQ'D.



PIPE SHALL BE OF SUFFICIENT LENGTH FOR OUTSIDE DIAMETER TO REACH INTERIOR WALLS OF BOTH CATCH BASINS. UPON INSTALLATION, EXCESS PIPE SHALL BE REMOVED FLUSH TO INTERIOR WALL OF CATCH BASIN.

STREET WIDTH (BK. TO BK.)	ONLINE "D"	OFFSET "D"
24'	13' - 8"	14' - 8"
29'	16' - 2"	17' - 2"
39'	21' - 2"	22' - 2"
44'	23' - 8"	24' - 8"
52'	27' - 8"	28' - 8"

FULTON COUNTY STANDARD DETAIL 508
LOCATION OF ROUND CATCH BASIN

DATE	REVISIONS	DATE	REVISIONS

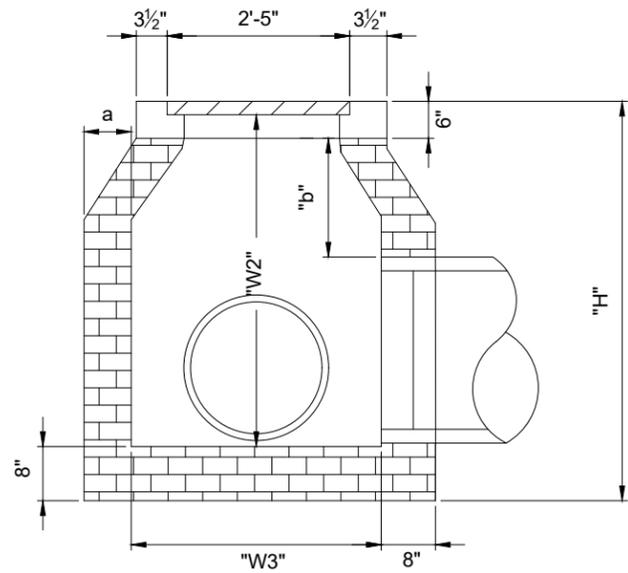
DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026



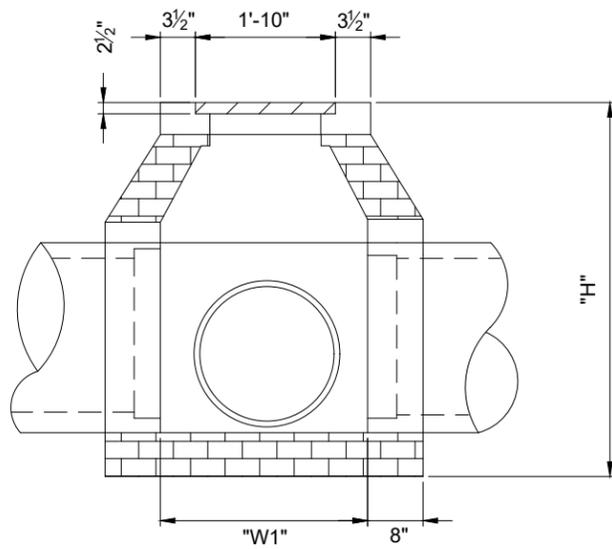
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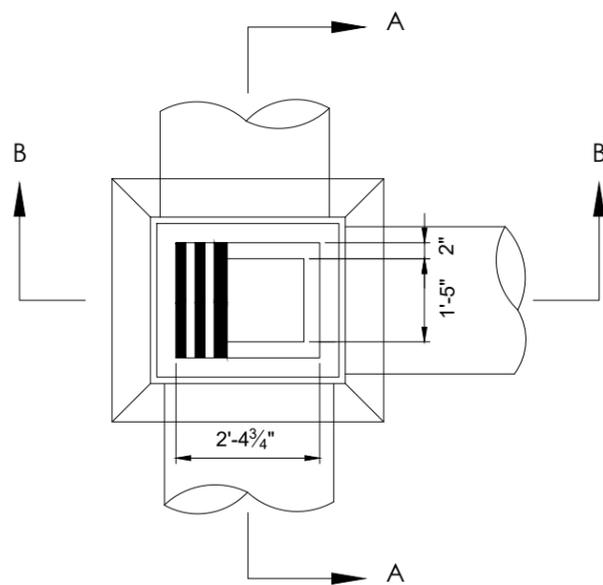
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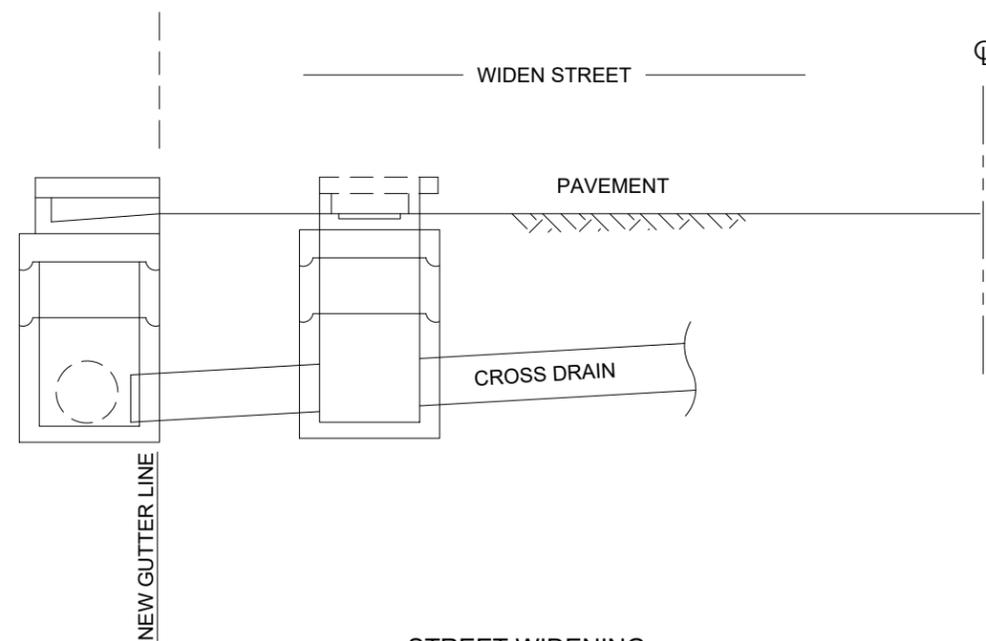
SECTION B-B



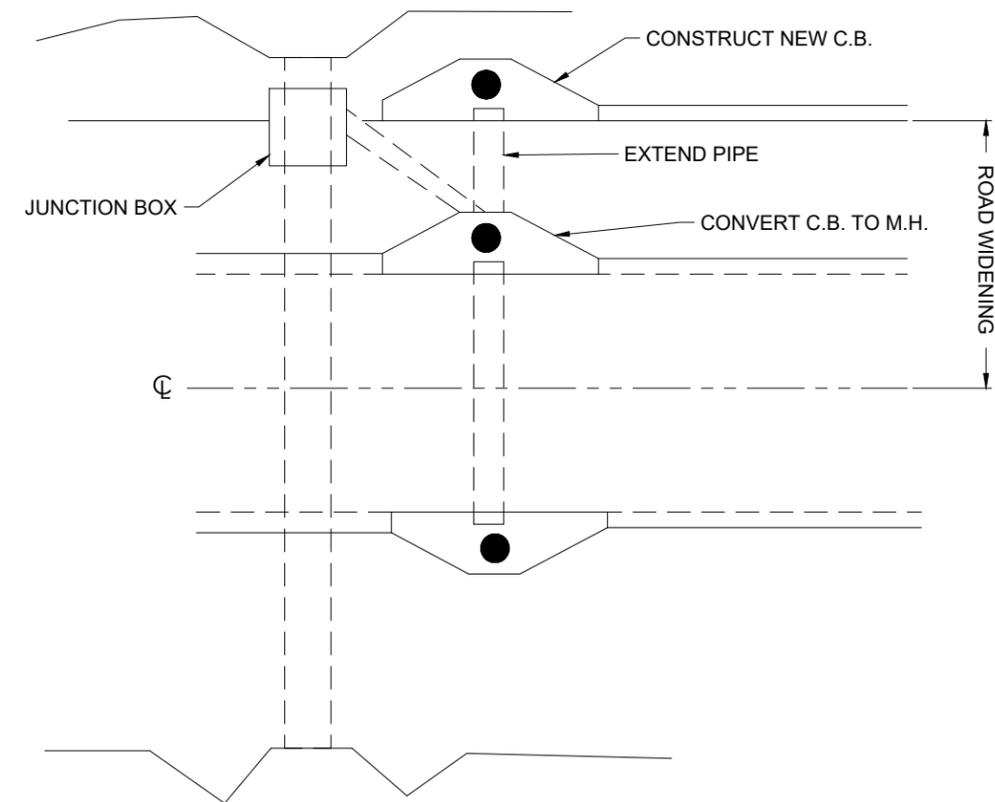
SECTION A-A



PLAN VIEW



STREET WIDENING
CONVERTING CATCH BASIN TO MANHOLE



NOTES:

1. REMOVE EXISTING TOP & THROAT OF CATCH BASIN. ADD BRICK COURSES FOR GRADE ADJUSTMENT. COMPLETE BY ADDING STANDARD MANHOLE FRAME & COVER (#460 LBS. AND SET IN 8" MIN. REINFORCED CONC. SLAB).
2. ALL PIPES WITHIN RIGHT-OF-WAY SHALL BE RCP. THIS INCLUDES PIPE PARALLEL TO ROAD.
3. SEE STANDARD #511 FOR DIMENSION TABLE.

FULTON COUNTY STANDARD DETAIL 509
DROP INLETS, BRICK & CATCH BASIN EXTENSION

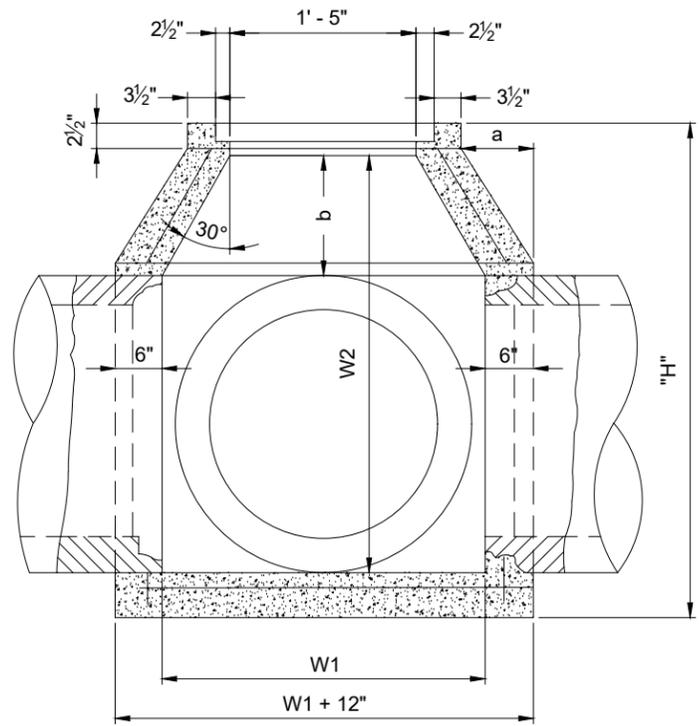
DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026

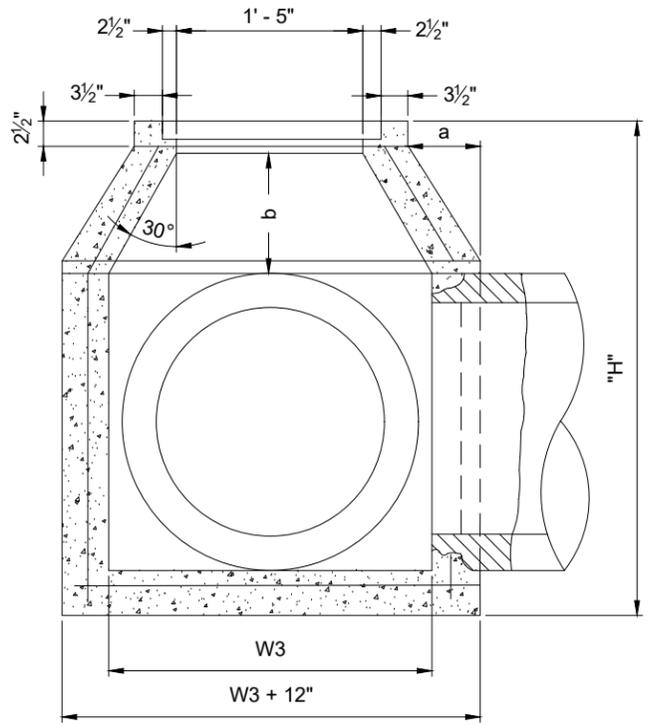


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DRAWING NO.
509



SECTION A-A

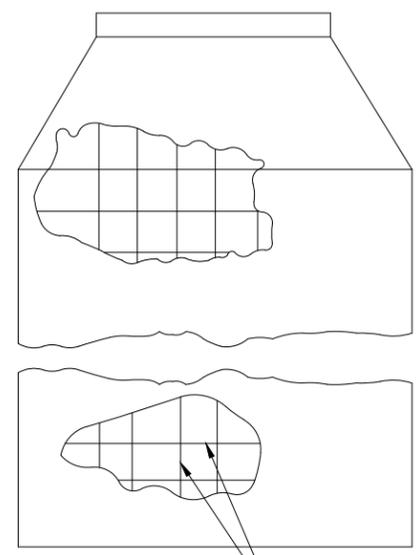


SECTION B-B

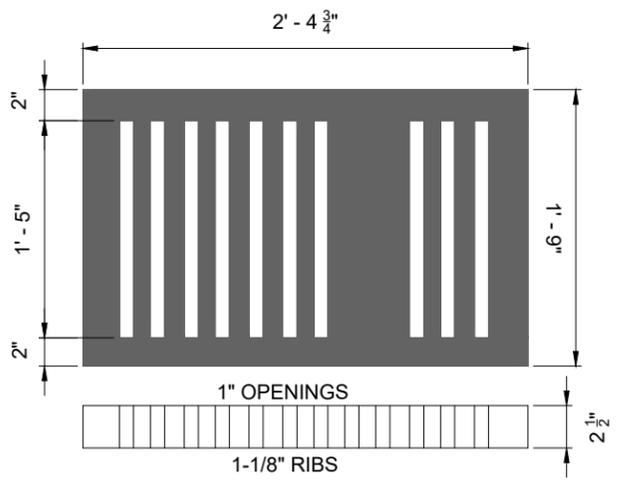
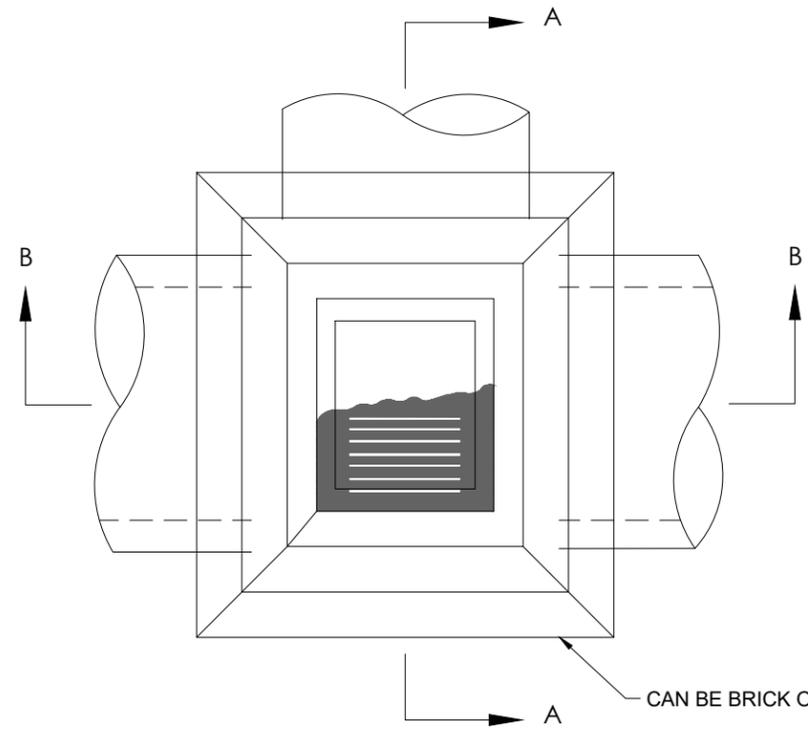
TYPE A

NOTES:

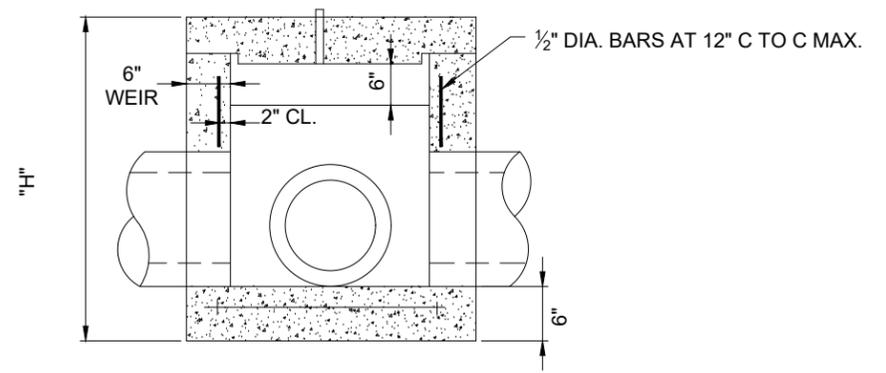
1. ROWLOCK BRICK INVERTS REQUIRED AT ALL JUNCTION BOXES & DROP INLETS. CONCRETE INVERT IS ALLOWED.
2. IN ALL DROP INLETS, 1/2" DIA. BAR REINFORCING STEEL TO BE PLACED NOT MORE THAN 12" CENTER LINE AND COVERED NOT LESS THAN 2".



HOR. REINF. STEEL AT 6" C TO C
VERT. REINF. STEEL AT 12" C TO C



DETAIL OF CAST IRON GRATING
APPROX. WT. 200 LB.



TYPE B
SEE SHEET NO. 511 FOR DIMENSIONS

FULTON COUNTY STANDARD DETAIL 510

DROP INLETS, CONCRETE
DETAILS FOR PAVED SECTIONS ONLY

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026



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DRAWING NO.
510

511-S.DWG December 08, 2025 - 2:42pm

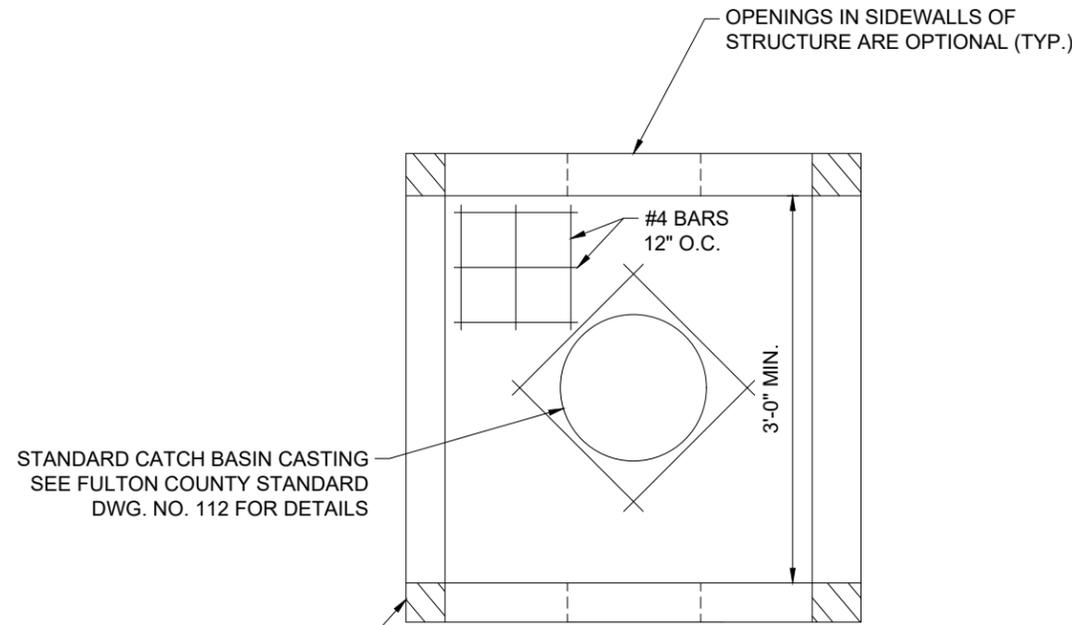
TABLE 511-1 BRICK DROP INLET										
D (IN.)	W1	MIN. -W2	W3	a	b	MIN-H		NORMAL W OR W1	MIN-H	MIN-H
15	2'-2"	2'-11"	2'-9"	0'-4 1/2"	0'-8"	3'-9 1/2"		2'-0"	2'-7 1/2"	3'-7 1/2"
18	2'-2"	3'-2 1/2"	2'-9"	0'-4 1/2"	0'-8"	4'-1"		2'-0"	2'-10"	3'-10"
24	2'-8"	3'-3"	3'-3"	0'-7 1/2"	1'-1 1/4"	4'-9"		3'-0"	3'-8"	4'-8"
30	3'-7 1/4"	4'-0"	3'-10"	1'-0"	1'-9"	5'-10"		3'-6 1/2"	4'-2 1/2"	5'-10"
36	4'-2"	6'-1/2"	4'-9"	1'-4 1/2"	2'-2 1/4"	6'-11"		4'-2"	4'-10"	5'-10"
42	4'-5"	7'-1 3/4"	5'-0"	1'-6"	2'-7 1/4"	8'-0 1/4"		4'-8 1/2"	5'-4 1/2"	6'-11 1/2"
48	5'-0"	8'-2 3/4"	5'-7"	1'-9 1/2"	3'-1 1/4"	9'-1 1/4"		5'-3 1/2"	5'-11 1/2"	6'-11 1/2"
54	5'-7"	9'-4"	6'-2"	2'-1"	3'-7 1/2"	10'-2 1/2"		5'-10"	6'-6"	7'-6"
60	6'-2"	10'-5"	6'-9"	2'-4 1/2"	4'-1 1/2"	11'-3 1/4"		6'-4 1/2"	7'-0 1/2"	3'-0 1/2"
60	6'-9"	11'-6"	7'-4"	2'-8"	4'-7 1/2"	12'-4 1/2"		6'-11"	7'-7"	8'-7"
72	7'-4"	12'-7"	7'-11"	2'-11 1/2"	5'-2"	13'-5 1/2"		7'-5 1/2"	8'-1 1/2"	9'-1 1/2"

TABLE 511-2 CONCRETE DROP INLET										
D (IN.)	W1	MIN. -W2	W3	a	b	MIN-H		NORMAL W OR W1	MIN-H	MIN-H
15	2'-0"	2'-6 1/2"	2'-7"	0'-3 1/2"	0'-6"	3'-3"		2'-0"	2'-7 1/2"	3'-9 1/2"
18	2'-0"	2'-9 1/2"	2'-7"	0'-3 1/2"	0'-6"	3'-6"		2'-0"	2'-10"	4'-0"
24	2'-8"	4'-0 1/2"	3'-3"	0'-7 1/2"	1'-1"	4'-9"		3'-0"	3'-8"	4'-10"
30	3'-4"	5'-1 1/2"	3'-10"	0'-11 1/2"	1'-8"	5'-10"		3'-6 1/2"	4'-2 1/2"	5'-4 1/2"
36	3'-10"	6'-1 1/2"	4'-9"	1'-2 1/2"	2'-1 1/4"	6'-10"		4'-2"	4'-10"	6'-0"
42	4'-5"	7'-2 1/2"	5'-0"	1'-6"	2'-7 1/4"	7'-11"		4'-8 1/2"	5'-4 1/2"	6'-6 1/2"
48	5'-0"	8'-3 1/2"	5'-7"	1'-9 1/2"	3'-1 1/4"	9'-0"		5'-3 1/2"	5'-11 1/2"	7'-1 1/2"
54	5'-7"	9'-4 1/2"	6'-2"	2'-1"	3'-7 1/2"	10'-1"		5'-10"	6'-6"	7'-8"
60	6'-2"	10'-5 1/2"	6'-9"	2'-4 1/2"	4'-1 1/2"	11'-2"		6'-4 1/2"	7'-0 1/2"	3'-0 1/2"
60	6'-9"	11'-6 1/2"	7'-4"	2'-8"	4'-7 1/2"	12'-3"		6'-11"	7'-7"	8'-7"
72	7'-4"	12'-7 1/2"	7'-11"	2'-11 1/2"	5'-1 1/4"	13'-4"		7'-5 1/2"	8'-1 1/2"	9'-1 1/2"

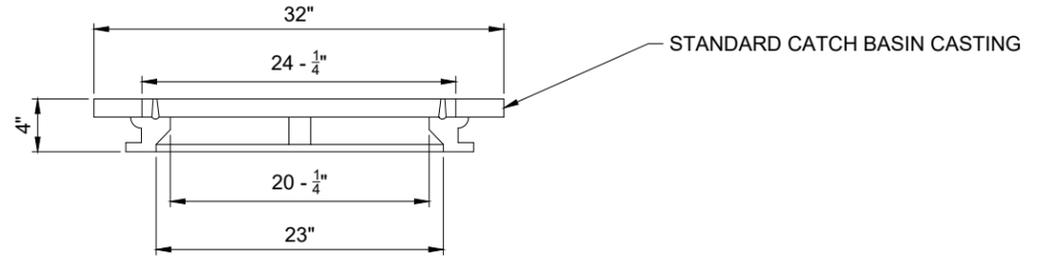
FULTON COUNTY STANDARD DETAIL 511 DROP INLET DIMENSIONS		DATE	REVISIONS	DATE	REVISIONS	DGS/DRN/CHKD: MB/EB/ML APPROVED: TM DATE: 01-21-2026		FULTON COUNTY PUBLIC WORKS 141 PRYOR ST. ATLANTA, GA. 30303 404-612-7400 FAX: 404-224-0498	DRAWING NO.
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NOTES:

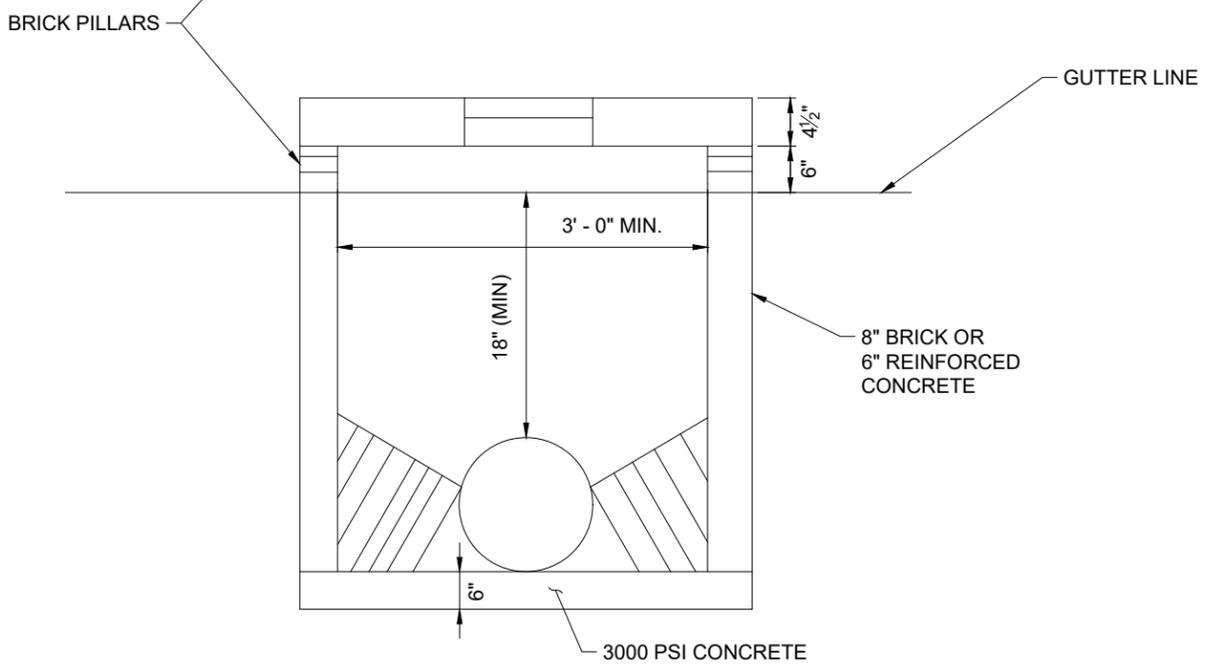
1. FOR DETAILS ON ROUND TO SQUARE ADAPTER, SEE FULTON COUNTY STANDARD DWG. NO. 507.
2. BRICK OR MASONRY INVERT REQUIRED (ROWLOCK), OR CONCRETE.



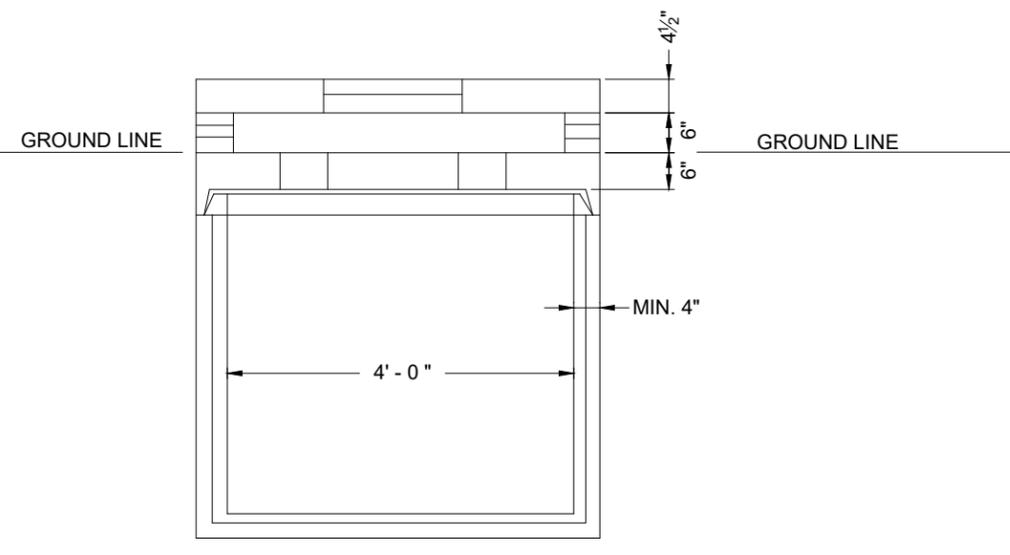
TOP VIEW



STANDARD CATCH BASIN CASTING



FRONT VIEW



ALT. FRONT VIEW FOR ROUND PRECAST BOX

512-S.dwg December 08, 2025 2:43pm

FULTON COUNTY STANDARD DETAIL 512
DROP INLETS (WEIR TYPE)

DATE	REVISIONS	DATE	REVISIONS

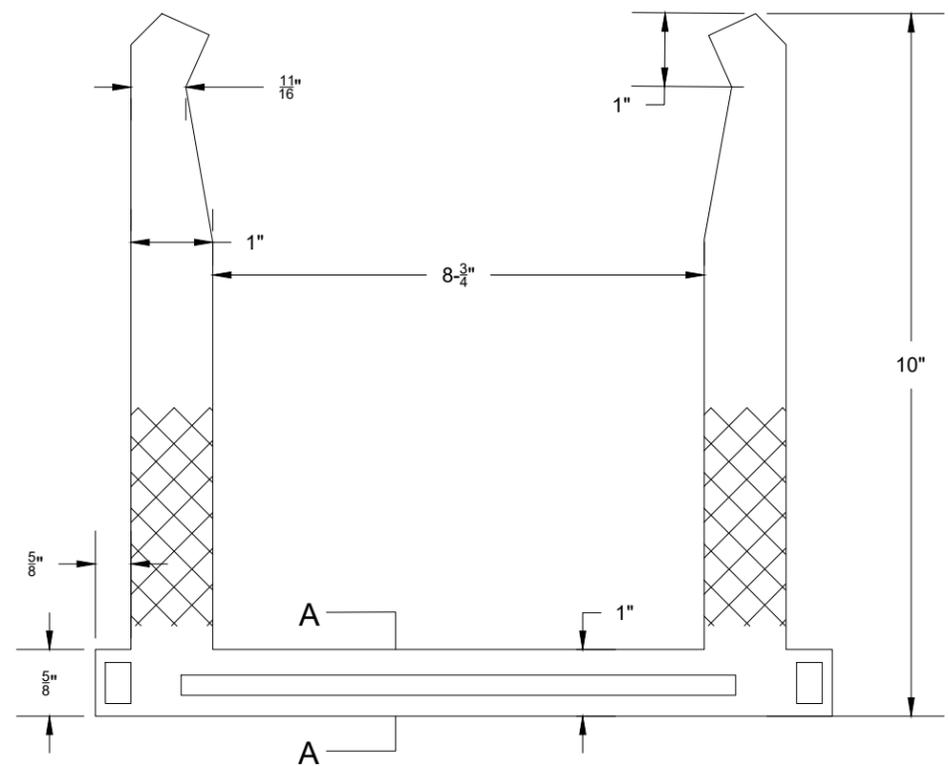
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DATE: 01-21-2026



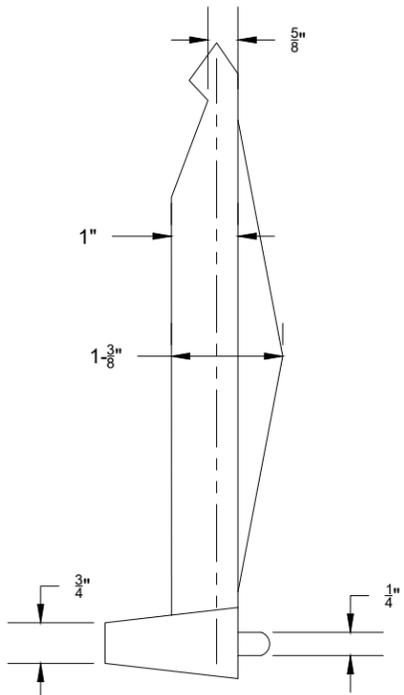
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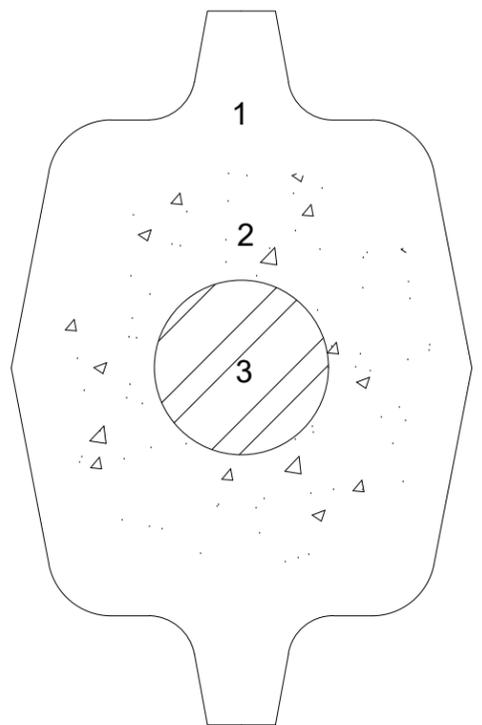
513-S.dwg December 08, 2025 2:43pm



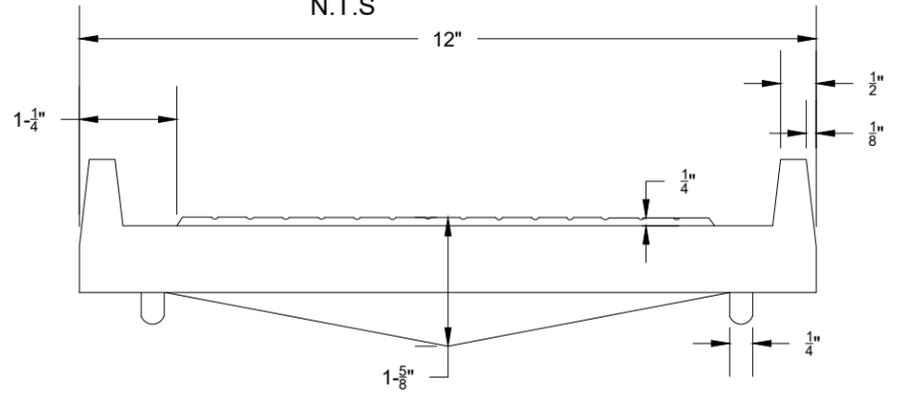
PLAN VIEW
N.T.S



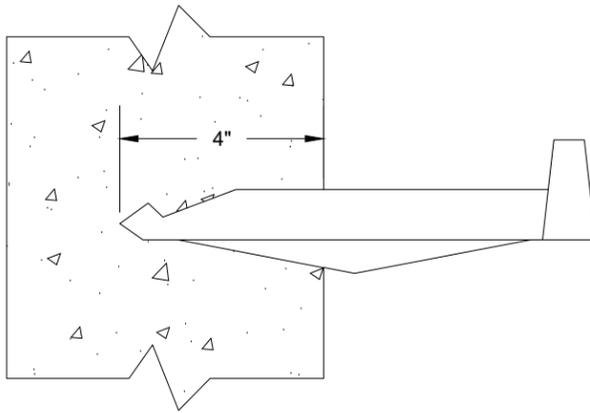
SIDE VIEW
N.T.S



SECTION VIEW A-A
N.T.S



FRONT VIEW
N.T.S



NOTES:

1. POLYPROPYLENE PLASTIC SOLID OUTER SHELL
2. POLYPROPYLENE PLASTIC POROUS MASS
3. 3/8" STEEL REINFORCING ROD, GRADE 60 MEETING ASTM A-615

FULTON COUNTY STANDARD DETAIL 513
REINFORCED PLASTIC STEP

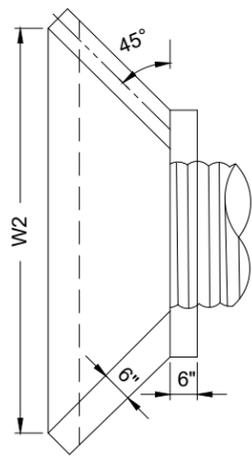
DATE	REVISIONS	DATE	REVISIONS

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APPROVED: TM
DATE: 01-21-2026

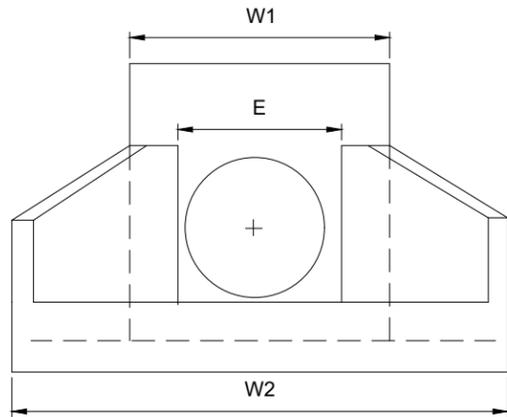


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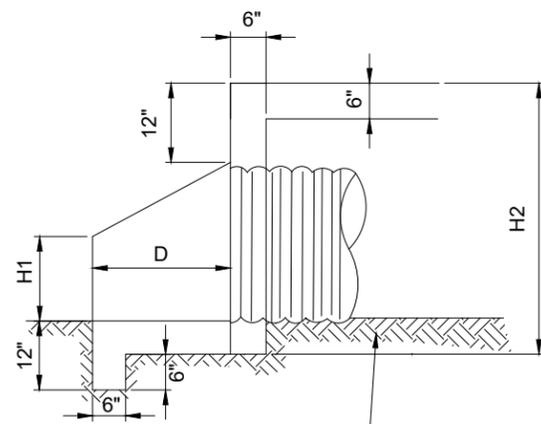
DRAWING NO.
513



PLAN VIEW

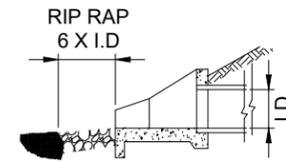


FRONT ELEVATION



SIDE VIEW

SOIL TO BE COMPACTED TO 95% STANDARD DENSITY



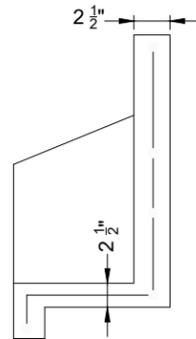
RIP - RAP - DETAIL

NOTES:

1. ALL CONC. SHALL BE 4000 P.S.I.
2. REINFORCEMENT STEEL SHALL BE INTERMEDIATE GRADE.
3. CHAMFER ALL EXPOSED EDGES.
4. ENERGY DISSIPATOR REQ. ON PIPES OVER 30" DIA.
5. IF EXIT VELOCITY >6 F.P.S. RIP RAP TO BE PLACED AT OUTLET, LENGTH TO BE 6xD, WIDTH TO BE 3xD.
6. FOR PIPES LARGER THAN 54" USE FULTON CO. STD. #515 OR G.D.O.T. STD. #1125.
7. AN ALTERNATE DESIGN FOR THE ENERGY DISSIPATOR WOULD BE ACCEPTABLE ONCE APPROVED BY FULTON COUNTY.

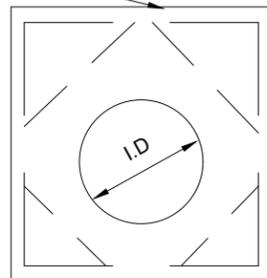
TABLE 514-1 STONE & FILTER MATERIAL: RIP RAP		
VELOCITY	STONE SIZE	FILTER MATERIAL
<6 FT/SEC	10 - 50 LBS.	1.5'
6 TO 8 FT/SEC	20 - 100 LBS.	3"
8 TO 10 FT/SEC	25 - 250 LBS.	4.5"
STONE OR DURABLE MATERIAL WEIGHING 150 LBS/FT ³		

INLET HEADWALL

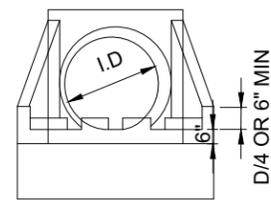


BASE & WALL SECTION

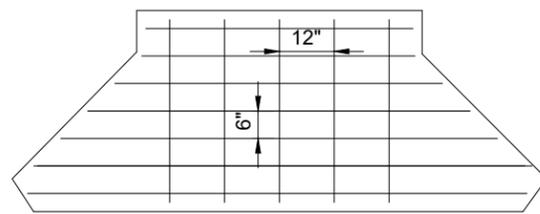
NOTE: HEADWALLS OVER 30" TO HAVE STEEL ON 6" CENTERS EACHWAY (2" CLEARANCE TYP.)



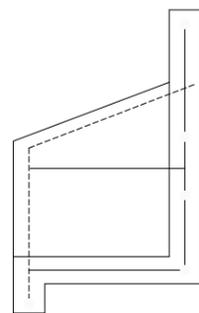
WALL SECTION



FRONT ELEVATION

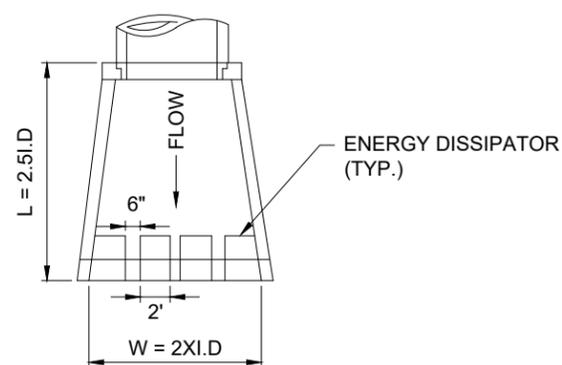


BASE SECTION
N.T.S.



WING SECTION

OUTLET HEADWALL



PLAN VIEW

TABLE 514-2 HEADWALL DIMENSION FOR METAL PIPE*								
INSIDE DIA. OF PIPE	W1	W2	H1	H2	D	E	WT	SQ. FT. IN BASE AREA
18"	3' - 2"	4' - 3"	1' - 3"	3' - 2"	1' - 3"	1' - 9"	1,550	7.34
21", 24"	3' - 8"	5' - 3"	1' - 9"	3' - 8"	1' - 6"	2' - 7"	2,100	9.9
30"	4' - 2"	6' - 5"	2' - 0"	4' - 2"	1' - 10"	2' - 9"	2,850	13.5
36"	4' - 8"	7' - 7"	2' - 4"	4' - 8"	2' - 2"	3' - 3"	3,700	17.65
42", 48"	5' - 8"	10' - 1"	3' - 3"	5' - 8"	2' - 11"	4' - 3"	5,600	28.6
54"	6' - 8"	11' - 11"		6' - 8"	3' - 4"	5' - 3"	7,500	35.6

FULTON COUNTY STANDARD DETAIL 514
PRECAST CONCRETE HEADWALL SYSTEMS
(INLET & OUTLET HEADWALLS)

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026



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DRAWING NO.

514

INLET HEADWALL WITH TAPERED PIPE

OUTLET HEADWALL

INLET HEADWALL

NOTES:

- ALTERNATE DESIGN FOR PIPES LARGER THAN 54" USE G.D.O.T STANDARD #1125.
- RUBBLE MASONRY CONSTRUCTION NOT ALLOWED ON PIPES OVER 54".
- AN ALTERNATE DESIGN FOR THE ENERGY DISSIPATOR WOULD BE ACCEPTED ONCE APPROVED BY FULTON COUNTY. SEE STANDARD #516.
- CONCRETE TAPERED PIPE: STRUCTURAL REQUIREMENTS WILL BE ACCORDING TO ASTM C307 FOR CLASS HE-1 HORIZONTAL ELLIPTICAL PIPE.
- CORRUGATED METAL PIPE (CMP): MATERIAL REQUIRED TO MEET SEC. 844 (STEEL PIPE) OR SEC. 840 (ALUMINUM PIPE). CMP WILL CONFORM TO THE SAME LINES AND DIMENSIONS SHOWN, DETAILS ARE SHOWN FOR CONCRETE.
- FOR DETAILS,
 D = INSIDE DIAMETER OF PIPE
 H = D + PIPE WALL THICKNESS + 8" (FOR RCP)
 H = D + 10" MIN (FOR CMP)

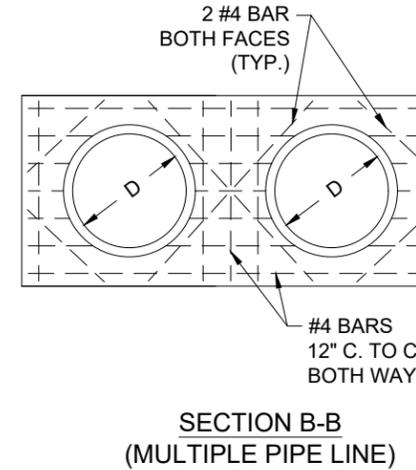
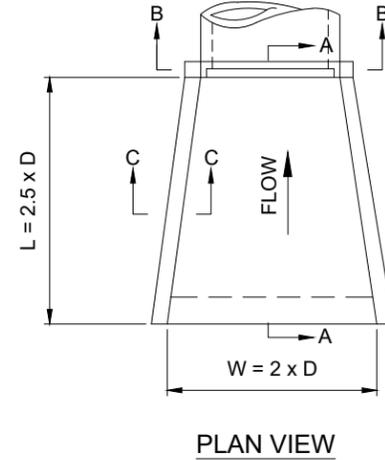
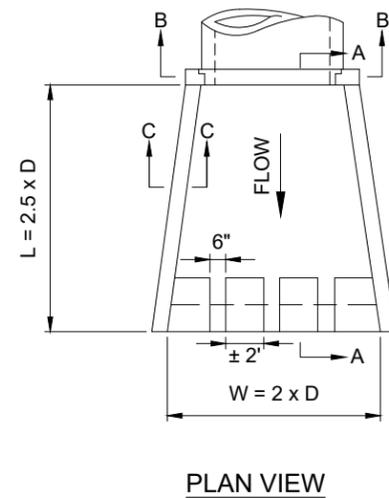
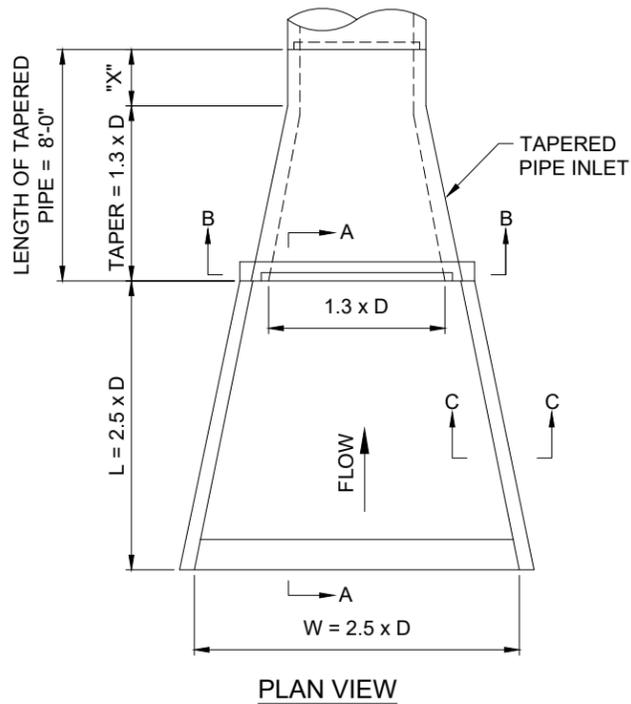
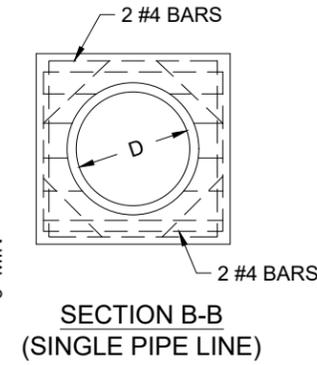
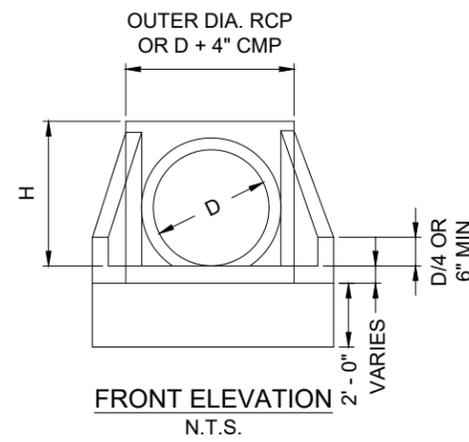
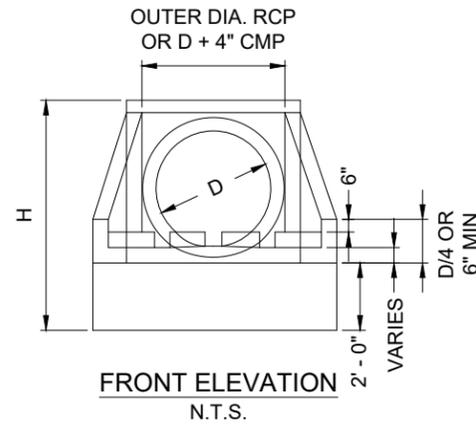
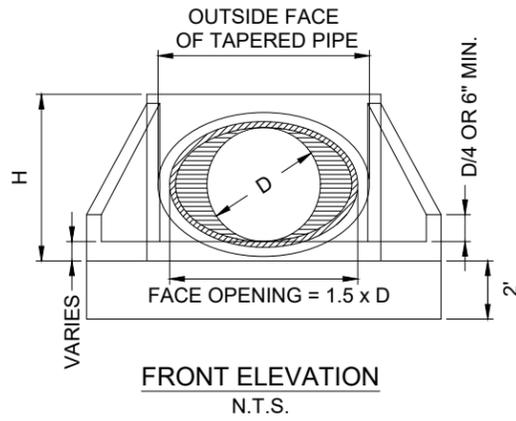
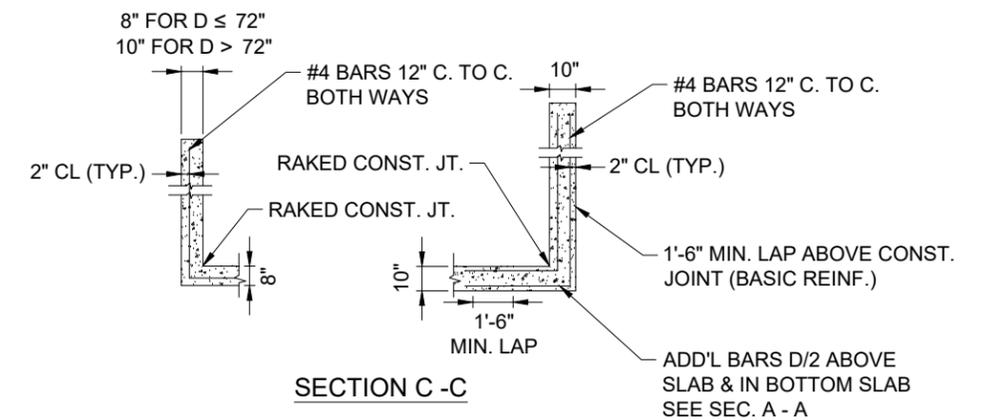
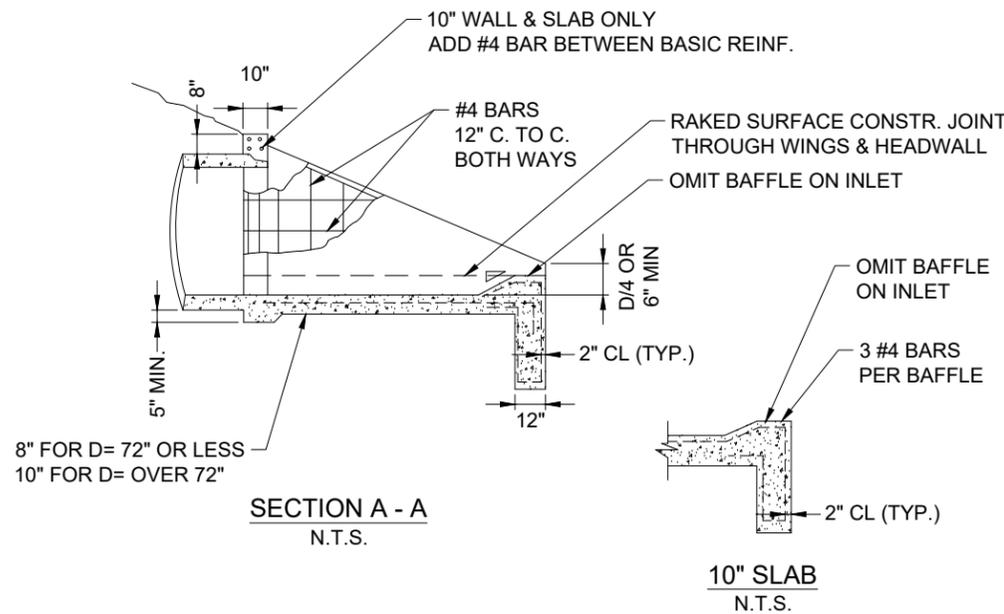
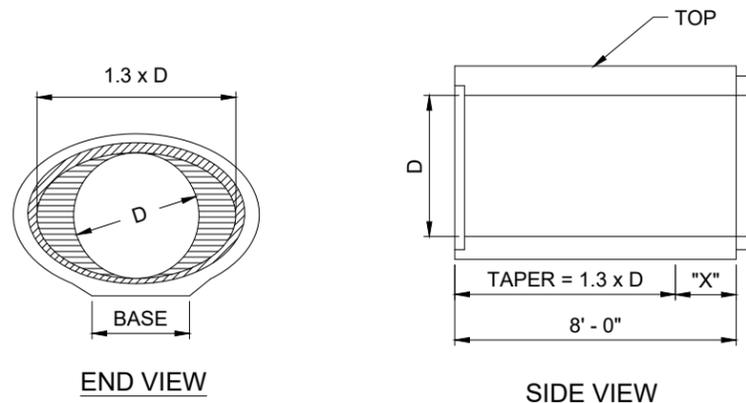


TABLE 515-1
TAPERED PIPE DIMENSIONS

D	1.3 x D	'X'	MIN. THICKNESS (IN.)		
			CORRUGATED STEEL		CORRUGATED ALUMINUM
			2 2/3" x 1/2" CORR.	3" x 1" CORR.	
24"	2'-8"	5'-4"	0.064	----	0.060
30"	3'-4"	4'-8"	0.064	0.064	0.073
36"	4'-0"	4'-0"	0.109	0.064	0.133
42"	4'-8"	3'-4"	0.109	0.064	0.133
48"	5'-4"	2'-8"	0.138	0.064	0.164
54"	6'-0"	2'-0"	0.168	0.064	----
60"	6'-8"	1'-4"	----	0.075	----



FULTON COUNTY STANDARD DETAIL 515

INLET & OUTLET HEADWALLS

DATE	REVISIONS	DATE	REVISIONS

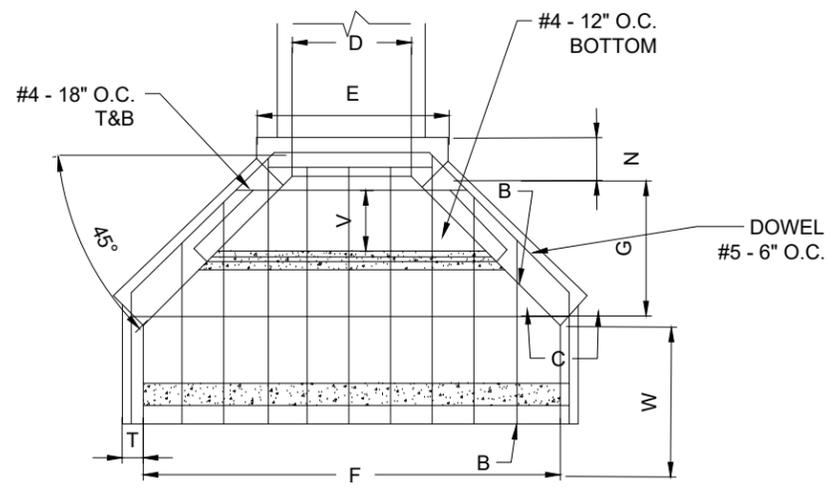
DGS/DRN/CHKD: MB/EB/ML
 APPROVED: TM
 DATE: 01-21-2026



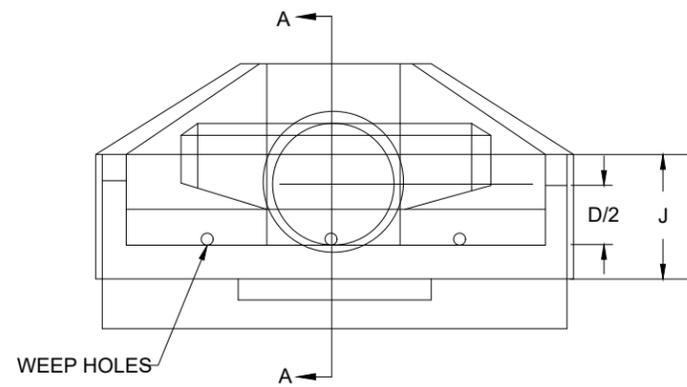
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DRAWING NO.

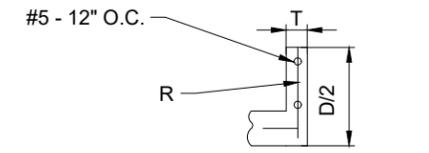
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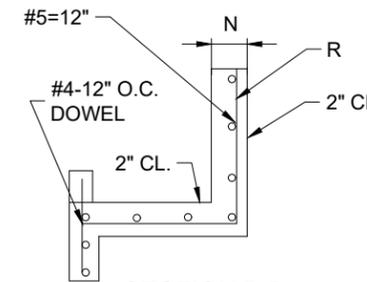
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FRONT ELEVATION



SECTION C-C

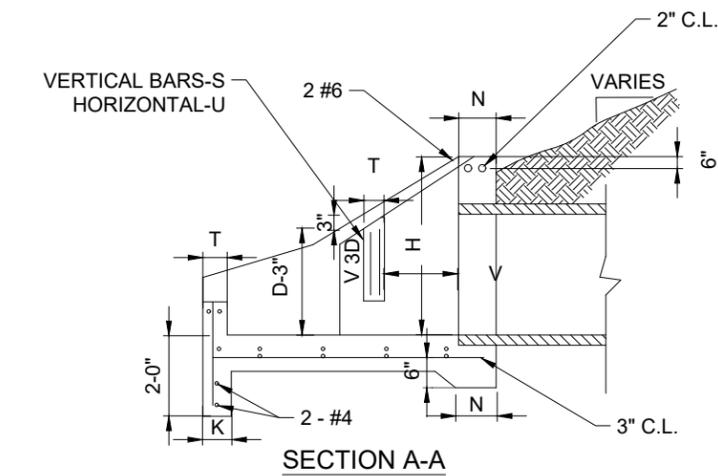


SECTION B-B

NOTES:

1. HEADWALL PARALLEL TO CENTER LINE OF HIGHWAY WITHIN RIGHT OF WAY SHALL BE FLARED-END (SEE G.D.O.T. STD #1120).
2. CONCRETE SHALL BE 3,000 PSI 28 DAY STR.
3. WEEP HOLES SHALL BE 3" DIA. AT F/4 O.C.
4. RANDOM RUBBLE 3" TO 12" IN DIA.

2 DENOTES 3" X 1" OR ① 23mm X 23mm CORRUGATION



SECTION A-A

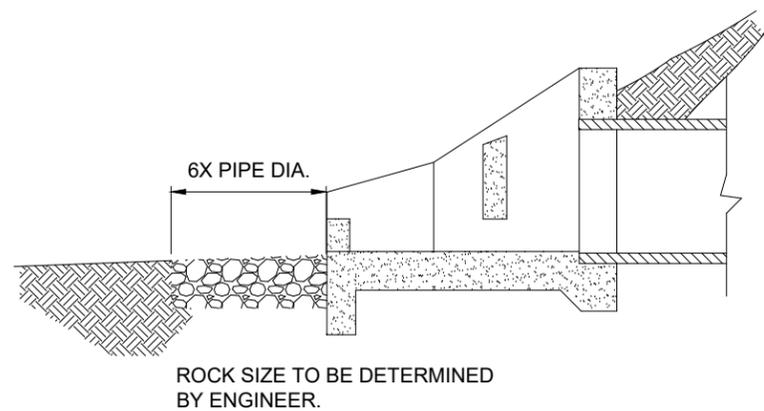


TABLE 516-1

ALTERNATIVE ENERGY DISSIPATOR DIMENSIONS

D	E	F	G	H	J	K	L	N	V	W	T	R	S	U
18"	3'-0"	7'-6"	3'-0"	3'-0"	2'-0"	8"	8"	8"	2'-0"	1'-0"	6"	# 5 - 12" O.C.	# 4 - 12" O.C.	# 4 - 8" O.C.
21"	3'-4"	7'-9"		3'-3"					2'-0"					
24"	3'-8"	8'-0"	"	3'-6"	"	"	"	"	2'-0"	1'-6"	"	"	"	"
27"	3'-11"	8'-3"	"	4'-0"	"	"	"	"	2'-0"	2'-0"	"	"	"	"
30"	4'-2"	8'-6"	"	4'-0"	2'-1"	"	"	10"	2'-0"	2'-0"	"	"	"	"
36"	4'-8"	10'-0"	3'-6"	4'-6"	2'-3"	"	10"	"	2'-3"	2'-6"	"	"	"	"
42"	5'-3"	11'-6"	4'-6"	5'-0"	2'-9"	"	"	"	2'-4"	3'-0"	8"	"	"	# 5 - 8" O.C.
48"	5'-10"	13'-0"	4'-6"	5'-6"	3'-0"	"	"	12"	2'-6"	3'-6"	"	"	# 5 - 12" O.C.	"
54"	6'-5"	14'-6"	5'-0"	6'-0"	3'-6"	9"	12"	"	2'-8"	5'-0"	"	# 6 - 8" O.C.	"	"
60"	7'-0"	16'-0"	5'-6"	6'-6"	4'-3"	"	"	"	2'-11"	"	"	"	"	"
66"	7'-7"	17'-6"	6'-0"	7'-0"	4'-6"	"	"	14"	3'-0"	"	"	"	"	"
72"	8'-2"	19'-0"	6'-6"	7'-0"	5'-8"	"	"	"	3'-2"	5'-6"	"	"	"	"

FULTON COUNTY STANDARD DETAIL 516
ENERGY DISSIPATOR (ALTERNATE)

DATE	REVISIONS	DATE	REVISIONS

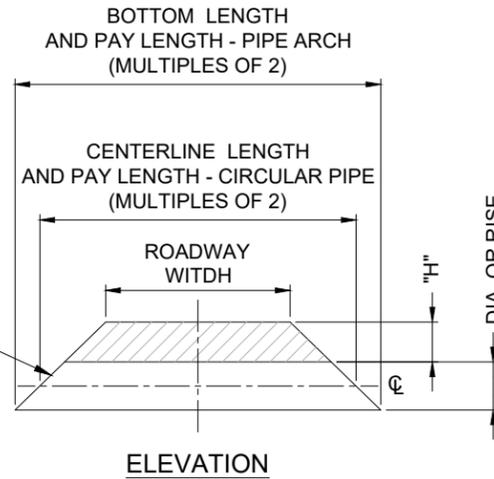
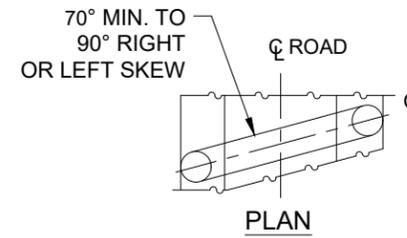
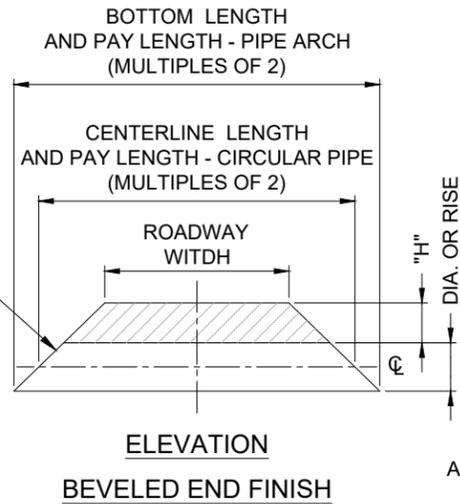
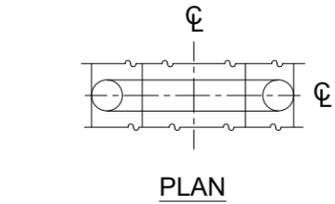
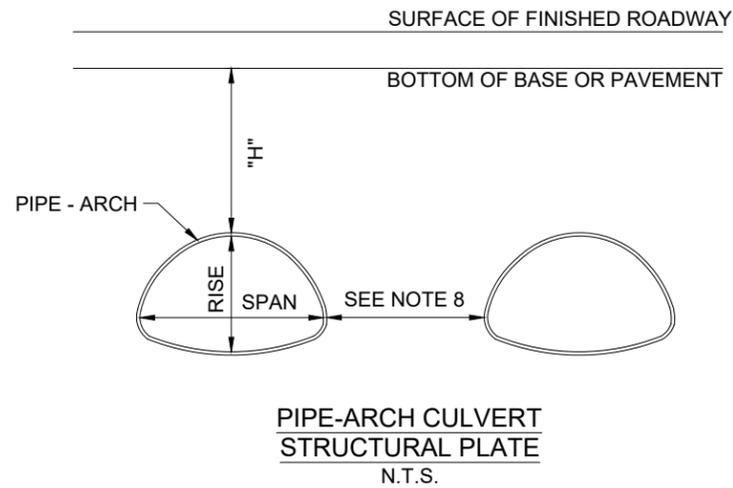
DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026



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DRAWING NO.

516



NOTES:

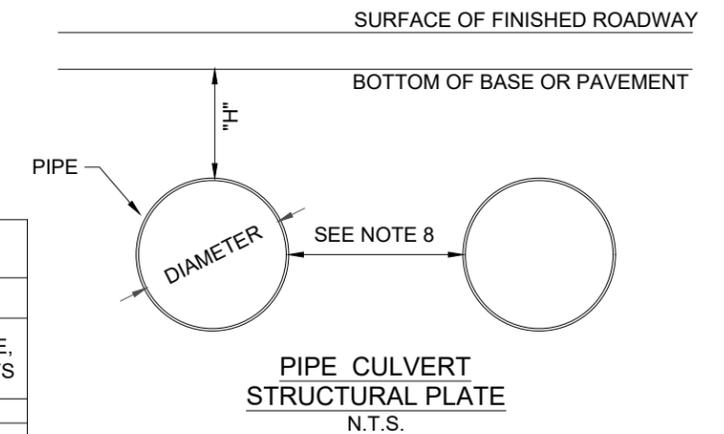
1. SPECIFICATIONS - GEORGIA STANDARD
2. DESIGN DATA: H-20 LIVE LOAD
3. GAGES SHOWN ARE MINIMAL STRUCTURAL REQUIREMENTS FOR USE WITH ADEQUATE BACKFILL.
4. FOR END FINISH SHAPE OR CONDITION OTHER THAN SHOWN, SEE SPECIFIC DESIGN.
5. GAGES SHOWN ION ABOVE TABLE ARE FOR STRUCTURAL PLATE PIPE ASSEMBLED WITH 4 BOLTS PER FOOT OF LONGITUDINAL SEAM AND VERTICALLY ELONGATED 5% BY SHOP FORMING, EXCEPT AS NOTED IN NO.2..
6. BEYOND HEIGHTS OF COVER FOR 4 BOLTS AND TO HEIGHTS OF COVER SHOWN FOR 6 BOLTS, IN COLUMN AT RIGHT, NO.1 GAGE STRUCTURAL PLATE PIPE WITH 6 BOLTS PER FOOT OF LONGITUDINAL SEAM AND VERTICALLY ELONGATED 5% BY SHOP FORMING SHALL BE USED.
7. ONLY R.C.P ALLOWED UNDER COUNTY ROADS.
8. MINIMUM CLEAR SPACE BETWEEN MULTIPLE LINES = 1/2 DIAMETER FOR DIAMETERS 96 IN. OR LESS, AND 4 FEET FOR DIAMETERS GREATER THAN 96 IN. SUBSTITUTE SPAN FOR DIAMETER FOR PIPE-ARCH.

TABLE 518-1
DIMENSIONS FOR STRUCTURAL PLATE PIPE-ARCH

SPAN (FT - IN)	RISE (FT - IN)	HEIGHT OF COVER (FEET)													
		1	2	3	4	5-7	8	9	10	11	12	13	14	15	
MINIMUM THICKNESS - US STD GAGE															
5'-8"	6-6	12	12	12	12	12	12	12	12	12	12	12	12	12	12
5'-10"	7-8	12	12	12	12	12	12	12	12	12	12	12	12	12	12
6-1	4-7	12	12	12	12	12	12	12	12	12	12	12	12	12	12
6-4	4-9	12	12	12	12	12	12	12	12	12	12	12	12	12	10
6-9	4-11	10	12	12	12	12	12	12	12	12	12	12	12	10	10
7-0	5-1	10	12	12	12	12	12	12	12	12	12	12	12	10	10
7-3	5-3	10	10	12	12	12	12	12	12	12	12	12	10	10	10
7-6	5-5	10	10	12	12	12	12	12	12	12	12	12	10	10	10
7-11	5-7	10	10	10	12	12	12	12	12	12	12	10	10	10	10
8-2	5-9	10	10	10	12	12	12	12	12	12	12	10	10	10	10
8-7	5-11	10	10	10	10	10	10	10	10	10	10	10	10	10	8
8-10	6-1	10	10	10	10	10	10	10	10	10	10	10	8	8	8
9-4	6-3	8	10	10	10	10	10	10	10	10	10	8	8	8	8
9-6	6-5	8	10	10	10	10	10	10	10	10	10	8	8	8	8
9-9	6-7	8	8	10	10	10	10	10	10	10	10	8	8	8	7
10-3	6-9	8	8	10	10	10	10	10	10	10	8	8	8	8	7
10-8	6-11	8	8	8	10	10	10	10	10	10	8	8	8	8	7
10-11	7-1	8	8	8	10	10	10	8	8	8	8	7	7	5	5
11-5	7-3	7	8	8	8	10	10	8	8	8	8	7	7	5	5
11-7	7-5	7	8	8	8	10	10	8	8	8	8	7	7	5	5
11-10	7-7	7	8	8	8	8	8	8	8	8	7	5	5	3	3
12-4	7-9	7	7	8	8	8	8	8	8	7	7	5	5	3	3
12-6	7-11	7	7	8	8	8	8	8	8	7	7	5	5	3	3
12-8	8-1	7	7	8	8	8	8	8	8	7	7	5	5	3	3
12-10	8-4	5	7	8	8	8	8	8	7	7	5	5	3	1	1
13-5	8-5	5	5	7	8	8	8	7	7	5	5	3	1	1	1
13-11	8-7	5	5	7	7	8	7	7	5	5	3	3	1	1	1
14-1	8-9	5	5	7	7	8	7	7	5	5	3	3	1	1	1
14-3	8-11	3	5	5	7	7	7	5	5	5	3	3	1	1	1
14-10	9-1	3	5	5	7	7	7	5	3	3	1	1			
15-4	9-3	3	3	5	7	7	7	5	3	3	1	1			
15-6	9-5	3	3	5	5	7	7	5	3	3	1	1			
15-8	9-7	3	3	5	5	7	7	5	3	3	1	1			
15-10	9-10	1	3	5	5	7	5	3	3	1	1				
16-5	9-11	1	3	3	5	5	5	3	1	1					
16-7	10-1	1	3	3	5	5	5	3	1	1					

TABLE 518 - 2
DIMENSIONS FOR STRUCTURAL PLATE PIPE

DIA. (IN.)	HEIGHT OF COVER, "H" (FT.)																1 GAGE, 6 BOLTS
	0-5	6-10	11-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-70	71-80	81-90	91-100	
MINIMUM THICKNESS - U.S STD GAGE - 4 BOLTS																	
72							12	12	10	10	8	8	7	5	3	1	165'
78						12	12	10	10	8	8	8	5	3	1	NOTE 6	130'
84					12	12	12	10	10	8	8	7	5	3	1	NOTE 6	140'
90	12	12	12	12	12	12	10	10	8	8	7	5	3	1	NOTE 6	NOTE 6	130'
96	12	12	12	12	12	10	10	10	8	7	7	5	3	1	NOTE 6	NOTE 6	125'
102	12	12	12	12	10	10	10	8	8	7	5	3	1	NOTE 6	NOTE 6	NOTE 6	115'
108	12	12	10	10	10	10	10	8	7	5	5	3	1	NOTE 6	NOTE 6	NOTE 6	110'
114	10	12	10	10	10	10	8	8	7	5	5	3	1	NOTE 6	NOTE 6	NOTE 6	105'
120	10	12	10	10	10	10	8	7	5	5	3	1	NOTE 6	NOTE 6	NOTE 6	NOTE 6	100'
126	10	12	10	10	10	10	8	7	5	3	3	1	NOTE 6	NOTE 6	NOTE 6	NOTE 6	93'
132	10	10	10	10	10	8	8	7	5	3	1	1	NOTE 6	NOTE 6	NOTE 6	NOTE 6	90'
138	10	10	10	10	10	8	7	5	3	3	1	NOTE 6	85'				
144	10	10	10	10	8	8	7	5	3	1	1	NOTE 6	80'				
150	10	10	8	8	8	8	7	5	3	1	NOTE 6	80'					
156	10	10	8	8	8	8	5	3	1	1	NOTE 6	75'					
162	10	10	8	8	8	7	5	3	1	NOTE 6	70'						
168	10	10	8	8	8	7	5	3	1	NOTE 6	70'						
174	8	10	8	8	8	7	5	3	1	NOTE 6	65'						
180	8	10	8	8	8	5	3	1	NOTE 6	65'							



FULTON COUNTY STANDARD DETAIL 518

STRUCTURAL PLATE PIPE
ARCH CULVERT

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026



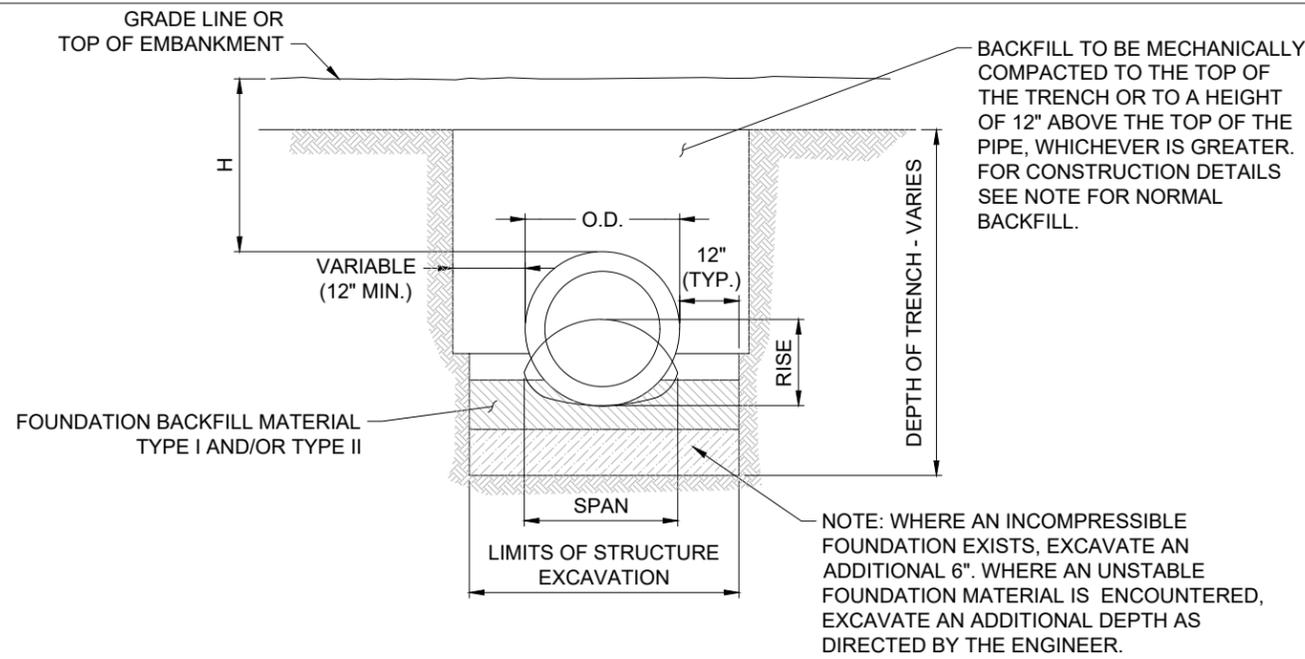
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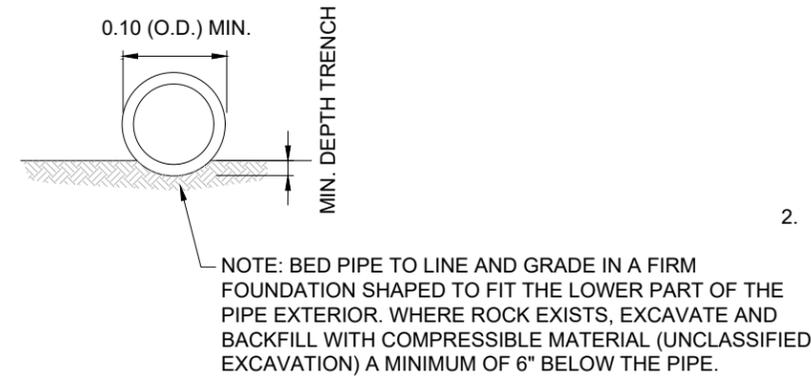
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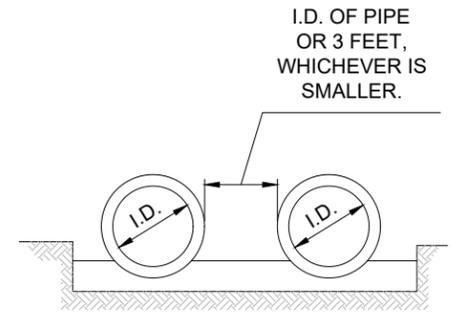
1. PE PIPE IS ALLOWABLE FOR THE FOLLOWING CONDITIONS:
 - A. PE PIPE MAY BE USED AS AN ALTERNATE TO LONGITUDINAL PIPE UNDER ALLOWABLE FILL SHOWN, FOR NON- TRAFFIC BEARING AND LOCAL ROAD BEARING APPLICATIONS.
 - B. PIPE MAY BE USED AS AN ALTERNATE TO PERFORATED UNDERDRAIN PIPE.
 - C. PE PIPE IS ALLOWABLE IN ALL SIDE DRAIN AND SLOPE DRAIN APPLICATIONS.
2. FOR PIPE-ARCH CULVERTS, SUBSTITUTE SPAN AND RISE FOR OUTSIDE DIAMETER OF PIPE IN HORIZONTAL AND VERTICAL DIMENSIONS SPECIFIED IN DETAIL.



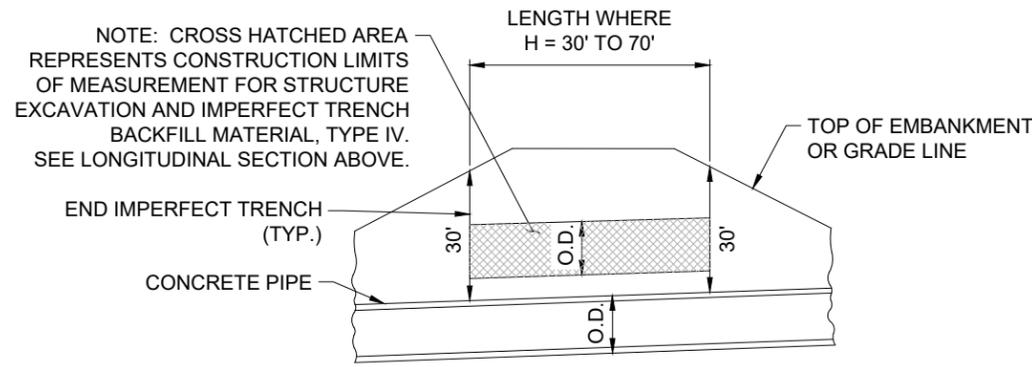
DETAIL OF TRENCH CONSTRUCTION
N.T.S.



DETAIL OF TRENCH CONSTRUCTION FOR SIDE DRAIN AND MEDIAN DRAIN PIPE
N.T.S.

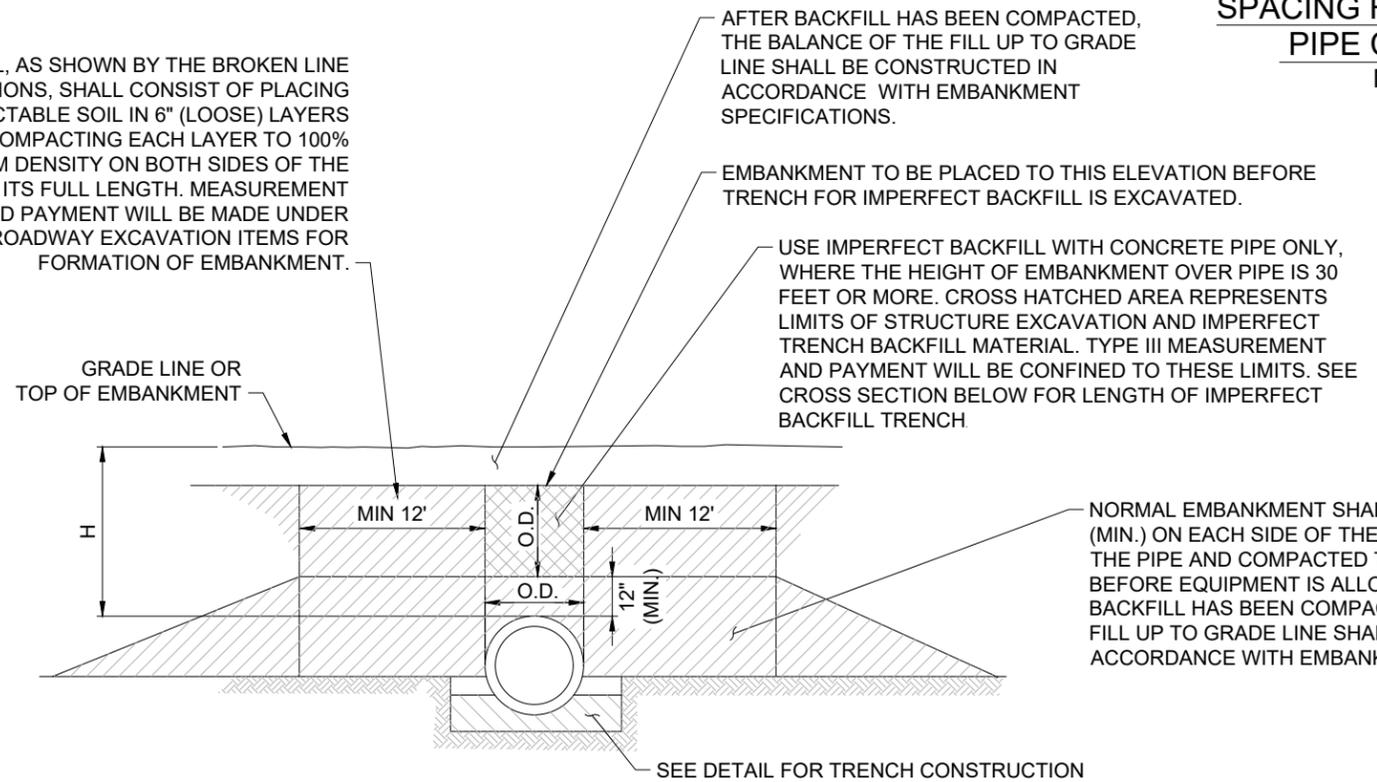


SPACING FOR MULTIPLE PIPE CULVERTS
N.T.S.

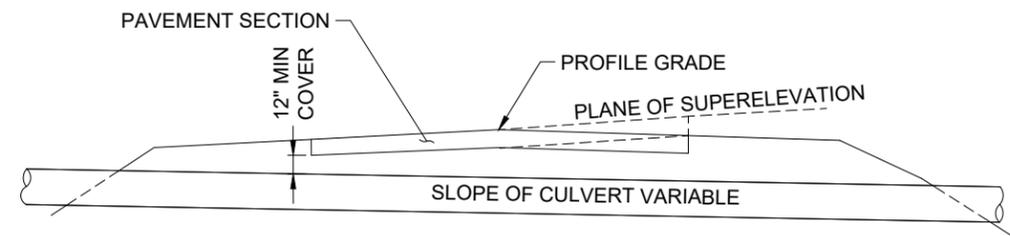


CROSS SECTION OF IMPERFECT TRENCH BACKFILL
N.T.S.

BACKFILL, AS SHOWN BY THE BROKEN LINE SECTIONS, SHALL CONSIST OF PLACING COMPACTABLE SOIL IN 6" (LOOSE) LAYERS AND COMPACTING EACH LAYER TO 100% MAXIMUM DENSITY ON BOTH SIDES OF THE PIPE FOR ITS FULL LENGTH. MEASUREMENT AND PAYMENT WILL BE MADE UNDER ROADWAY EXCAVATION ITEMS FOR FORMATION OF EMBANKMENT.



LONGITUDINAL SECTION OF IMPERFECT BACKFILL AND BACKFILL METHODS
N.T.S.



DETAIL SHOWING MINIMUM COVER FOR PIPE CULVERTS
N.T.S.

FULTON COUNTY STANDARD DETAIL 519A

STANDARD PIPE CULVERTS
SHEET 1 OF 3

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026



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DRAWING NO.

519A

519 B-S.dwg December 08, 2025 2:43pm

TABLE 519B - 1 GAUGE OF CORRUGATED STEEL/ THICKNESS OF CORRUGATED ALUMINUM PIPE-ARCH FOR VARIOUS HEIGHTS OF FILL ABOVE THE TOP OF THE PIPE-ARCH								
DIA. (IN.)	SPAN (IN.)	RISE (IN.)	TYPE OF PIPE	HEIGHT OF FILL IN FEET				
				1 - 2	3 - 10	11 - 15	16 - 20	21 - 25
15	18	11	STEEL	16 GA.	16 GA.	16 GA.	16 GA.	16 GA.
			ALUM	0.060"	0.060"	0.060"	0.060"	0.060"
18	22	13	STEEL	16 GA.	16 GA.	16 GA.	16 GA.	16 GA.
			ALUM	0.060"	0.060"	0.060"	0.060"	0.073"
21	25	16	STEEL	16 GA.	16 GA.	16 GA.	16 GA.	16 GA.
			ALUM	0.060"	0.060"	0.060"	0.060"	NP
24	29	18	STEEL	14 GA.	14 GA.	14 GA.	14 GA.	14 GA.
			ALUM	0.073"	0.075"	0.075"	0.105"	NP
30	36	22	STEEL	14 GA.	14 GA.	14 GA.	14 GA.	NP
			ALUM	0.073"	0.075"	0.075"	0.105"	NP
34	43	27	STEEL	12 GA.	12 GA.	12 GA.	12 GA.	NP
			ALUM	0.105"	0.105"	0.105"	0.135"	NP
42	50	31	STEEL	12 GA.	12 GA.	12 GA.	10 GA.	NP
			ALUM	0.105"	0.105"	0.105"	NP	NP
48	56	34	STEEL	10 GA.	12 GA.	10 GA.	10 GA.	NP
			ALUM	0.135"	0.105"	0.135"	NP	NP
54	65	40	STEEL	10 GA.	12 GA.	10 GA.	8 GA.	NP
60	72	44	STEEL	8 GA.	10 GA.	8 GA.	NP	NP

* DIAMETER OF PIPE OF EQUAL PERIPHERY.
FOR SIZES LARGER THAN SHOWN ABOVE, USE STRUCTURAL PLATE PIPE - ARCH, GA. STD. 20IIA. (SEE TABLE NO. 519B-2 FOR CIRCULAR PIPE)

TABLE 519B - 2 HEIGHT OF FILL OVER TOP OF PIPE, CLASS OF CONCRETE PIPE AND TYPE OF BACKFILL		
HEIGHT OF FILL (H) (FT.)	CLASS OF PIPE	TYPE OF BACKFILL
1 to 15	III	NORMAL
15 to 20	IV	NORMAL
20 to 30	V	NORMAL
30 to 50	V	IMPERFECT
50 to 70	V	IMPERFECT

FULTON COUNTY STANDARD DETAIL 519B

PIPE CULVERTS
SHEET 2 OF 3

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026



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DRAWING NO.

519B

519 C-S.dwg December 08, 2025 - 2:43pm

DIAM. (IN.)	TYPE OF PIPE	+ Height of Fill in Feet Above Top of Pipe**										
		1-10	10-15	15-20	20-25	25-30	30-35	35-40	40-50	50-60	60-70	70-80
15	CONCRETE	III	III	IV	V	V	V	V	V	V	V	V
	CORR. STEEL	16	16	16	16	16	16	16	16	14	14	10
	CORR. ALUM.	0.06	0.06	0.06	0.06	0.06	0.075	0.105	NP	NP	NP	NP
18	CONCRETE	III	III	IV	V	V	V	V	V	V	V	V
	CORR. STEEL	16	16	16	16	16	16	16	14	14	12	10
	CORR. ALUM.	0.06	0.06	0.06	0.06	0.075	0.105	NP	NP	NP	NP	NP
24	CONCRETE	III	III	IV	V	V	V	V	V	V	V	V
	CORR. STEEL	16	16	16	16	16	12	12	10	8	0	0
	CORR. ALUM.	0.075	0.075	0.075	0.075	0.105	0.135	NP	NP	NP	NP	NP
30	CONCRETE	III	III	IV	V	V	V	V	V	V	V	V
	CORR. STEEL	16	16	16	14	12	14	12	8	0	0	0
	CORR. ALUM.	0.075	0.075	0.075	0.105	0.135	0.164	NP	NP	NP	NP	NP
36	CONCRETE	III	III	IV	V	V	V	V	V	V	V	V
	CORR. STEEL	16	16	16	10	14	12	10	10	8	10	0
	CORR. ALUM.	0.105	0.105	0.105	0.105	0.135	0.164	NP	NP	NP	NP	NP
42	CONCRETE	III	III	IV	V	V	V	V	V	V	V	NP
	CORR. STEEL	16	16	14	16	14	14	12	8	0	0	0
	CORR. ALUM.	0.105	0.105	0.105	0.135	0.135	NP	NP	NP	NP	NP	NP
48	CONCRETE	III	III	IV	V	V	V	V	V	V	V	V
	CORR. STEEL	16	16	12	16	14	14	12	12	0	0	0
	CORR. ALUM.	0.105	0.105	0.105	0.135	0.164	NP	NP	NP	NP	NP	NP
54	CONCRETE	III	III	IV	V	V	V	V	V	V	V	V
	CORR. STEEL	14	14	14	14	14	8	8	0	0	0	0
	CORR. ALUM.	0.105	0.105	0.105	0.135	0.164	NP	NP	NP	NP	NP	NP
60	CONCRETE	III	III	IV	V	V	V	V	V	V	V	V
	CORR. STEEL	12	12	12	12	12	10	8	NP	NP	NP	NP
	CORR. ALUM.	0.135	0.135	0.164	0.164	NP						
66	CONCRETE	III	III	IV	V	V	V	V	V	V	V	V
	CORR. STEEL	12	12	12	12	10	10	NP	NP	NP	NP	NP
	CORR. ALUM.	0.135	0.135	0.164	NP							
72	CONCRETE	III	III	IV	V	V	V	V	V	V	V	V
	CORR. STEEL	10	10	10	10	8	NP	NP	NP	NP	NP	NP
	CORR. ALUM.	0.135	0.135	0.164	NP							

DIAMETER (IN.)	TYPE OF PIPE	+ Height of Fill in Feet Above Top of Pipe**										
		1-10	10-15	15-20	20-25	25-30	30-35	35-40	40-50	50-60	60-70	70-80
78	CONCRETE	III	III	IV	V	V	V	V	V	V	V	V
	CORR. STEEL	8	8	8	8	USE	STRU	CTUR	AL	PLA	TE	PIPE
	CORR. ALUM.	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
84	CONCRETE	III	III	IV	V	V	V	V	V	V	NP	NP
	CORR. STEEL	8	8	8	USE	STRU	CTUR	AL	PLA	TE	PIPE	NP
	CORR. ALUM.	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
90	CONCRETE	III	III	IV	V	V	NP	NP	NP	NP	NP	NP
	CORR. STEEL	NP	NP	USE	STRU	CTUR	AL	PLA	TE	PIPE	NP	NP
	CORR. ALUM.	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
96	CONCRETE	III	III	IV	V	V	NP	NP	NP	NP	NP	NP
	CORR. STEEL	NP	NP	USE	STRU	CTUR	AL	PLA	TE	PIPE	NP	NP
	CORR. ALUM.	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
102	CONCRETE	III	III	IV	V	V	NP	NP	NP	NP	NP	NP
	CORR. STEEL	NP	NP	USE	STRU	CTUR	AL	PLA	TE	PIPE	NP	NP
	CORR. ALUM.	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
108	CONCRETE	III	III	IV	V	V	NP	NP	NP	NP	NP	NP
	CORR. STEEL	NP	NP	USE	STRU	CTUR	AL	PLA	TE	PIPE	NP	NP
	CORR. ALUM.	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP

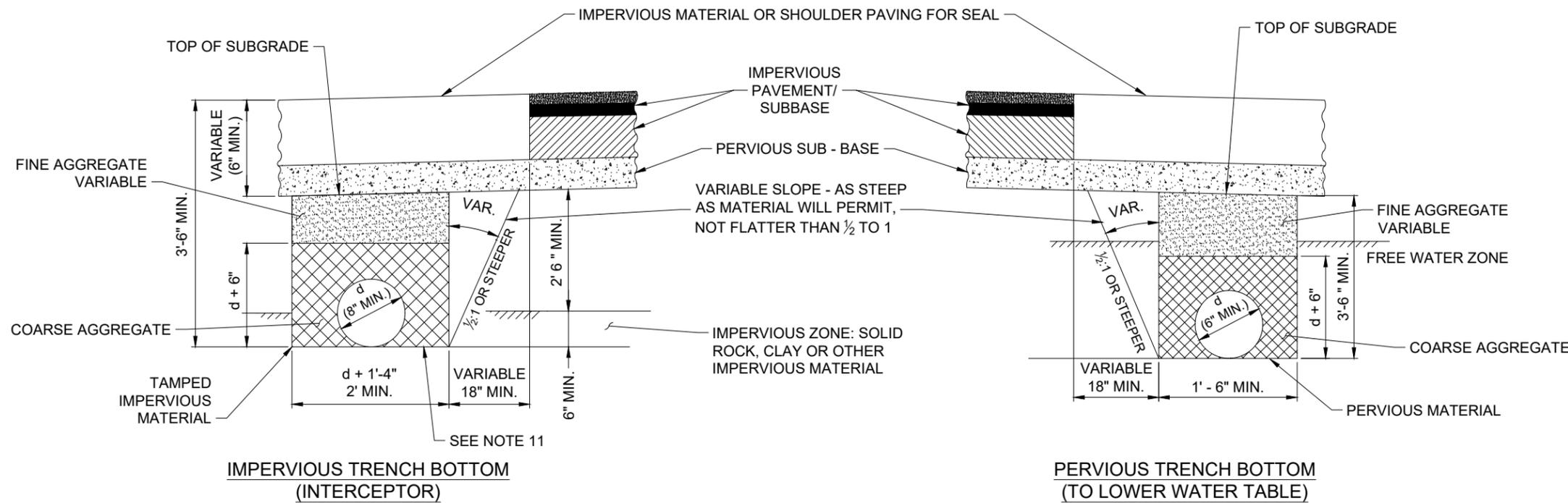
NP= NOT PERMITTED
= PIPE SHALL BE SHAPE II CIRCULAR CROSS SECTION FACTORY ELONGATED

NOTES:

1. ALL STEEL AND ALUMINUM PIPE SHALL BE LOCK-SEAM OR WELDED-SEAM (HELICAL) CONSTRUCTION.
2. MINIMUM COVER VALUES APPLY TO HS-20 LIVE LOAD. MINIMUM COVER NEEDED FOR CONSTRUCTION VEHICLES MAY BE GREATER AND IS THE RESPONSIBILITY OF THE CONTRACTOR.
3. TABLE VALUES FOR ALUMINUM CORRUGATED PIPE (OR ALUMINUM SPIRAL RIB PIPE) ARE COMPUTED BASED UPON ALCLAD ALLOY 3004-H34 HAVING MINIMUM YIELD STRENGTH, fy=24,000 PSI. IF ALUMINUM PIPE IS OTHERWISE FURNISHED AS 3004-H32 (fy=20,000 PSI). THE TABLE NO.1 ALLOWABLE FILL HEIGHTS SHALL BE ADJUSTED AS FOLLOWS:
 - A. ALL MINIMUM COVER VALUES SHALL BE INCREASED BY 15 PERCENT. (EXAMPLE: 12 INCHES BECOMES 13.8 INCHES).
 - B. ALL HEIGHT OF FILL VALUES SHALL BE DECREASED BY 15 PERCENT. (EXAMPLE: 35-40 FEET BECOMES 29.7-34.0 FEET).

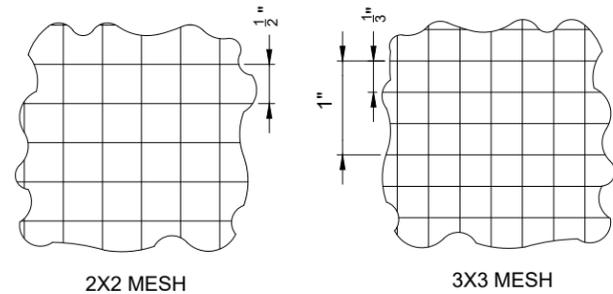
COR. METAL THICKNESS		EQUIVALENT GAUGE
STEEL	0.064	16
	0.079	14
	0.109	12
	0.138	10
ALUMINUM	0.168	8
	0.060	16
	0.075	14
	0.105	12
	0.135	10
	0.164	8

FULTON COUNTY STANDARD DETAIL 519C PIPE CULVERTS SHEET 3 OF 3		DATE	REVISIONS	DATE	REVISIONS	DGS/DRN/CHKD: MB/EB/ML		FULTON COUNTY PUBLIC WORKS 141 PRYOR ST. ATLANTA, GA. 30303 404-612-7400 FAX: 404-224-0498	DRAWING NO.
						APPROVED: TM			519C
						DATE: 01-21-2026			

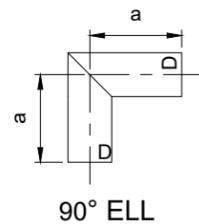


NOTES:

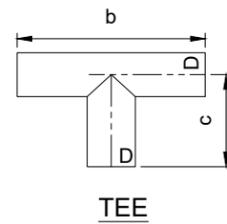
1. UNDERDRAINS MAY BE PLACED IN SHOULDER AREAS OR AS TRANSVERSE DRAINAGE UNDER PAVEMENT. SEE SPECIAL SECTION AND PLAN AND PROFILE SHEETS FOR SPECIAL CONDITIONS.
2. TRENCH SHALL BE SHAPED WITH SIDES AS NEARLY VERTICAL AS IS PRACTICAL AND WITH A FLAT BOTTOM.
3. MINIMUM GRADIENT FOR UNDERDRAIN PIPE SHALL BE 0.15%.
4. THE LOWER ROW OF PERFORATIONS IN THE PIPE SHALL BE PLACED ABOVE THE BOTTOM OF THE TRENCH AS SHOWN.
5. DEAD ENDS OF PIPE SHALL BE CLOSED WITH METAL CAPS OR CONCRETE PLUGS. OUTFALL ENDS OF PIPE SHALL BE EQUIPPED WITH SCREEN.
6. LATERAL CONNECTIONS SHALL BE MADE WITH SUITABLE STANDARD FITTINGS (ELLS, WYES OR TEES AS DETAILED).
7. THE DIMENSIONS (A THRU G) SHOWN ABOVE ON THE LATERAL CONNECTIONS FOR THE VARIOUS KINDS AND SIZES OF PERFORATED UNDERDRAIN SHALL BE IN AGREEMENT WITH THE MANUFACTURER'S STANDARD PRACTICE.
8. MARKERS: EACH OUTLET END OF THE DRAINAGE SYSTEM SHALL BE MARKED WITH A 5'X4'X4". PERSEPERATIVE TREATED WOOD POST PLACED 3' IN THE GROUND IN A VERTICAL POSITION OF THE EXTREME OUTLET END AND ADJACENT TO THE SITE OF THE PIPE.
9. COURSE AGGREGATE FOR UNDERDRAIN TO BE COMPOSED OF NO.7 STONE. FINE AGGREGATE FOR UNDERDRAIN TO BE COMPOSED OF NO.20 SAND.
10. PERFORATED UNDERDRAIN PIPE WILL BE INSTALLED COMPLETE PRIOR TO PLACING PERVIOUS SUBBASE MATERIAL.
11. IF THE BOTTOM OF THE TRENCH IS EXCAVATED WITH A MACHINE OR ANY OTHER IMPLEMENT, LEAVING A ROUNDED BOTTOM THE AREA SO THE PIPE SHALL BE BACKFILLED WITH A STABLE MATERIAL, THOROUGHLY COMPACTED, LEAVING A FIRM FLAT SURFACE. EACH FINISHED TRENCH SHALL HAVE A FLAT BOTTOM.



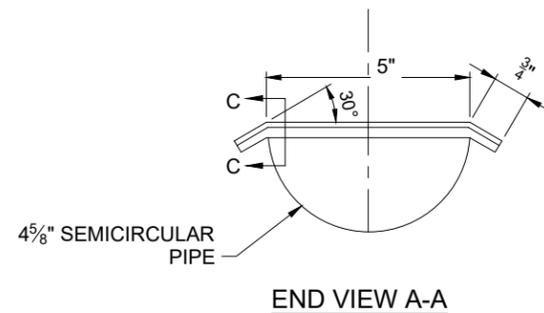
SCREEN TO BE GALVANIZED HARDWARE (WIRE)
CLOTH 2X2 OR 3X3 MESH, MIN. 21 GAUGE.



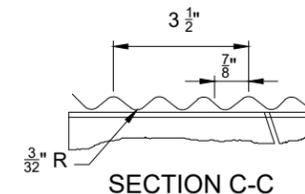
90° ELL



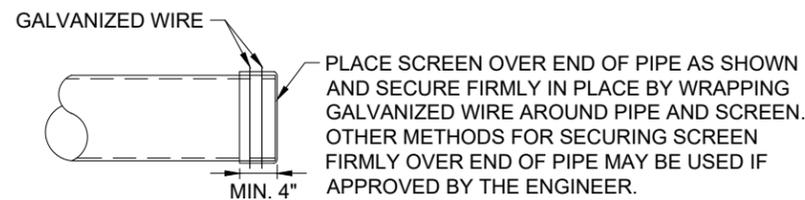
TEE



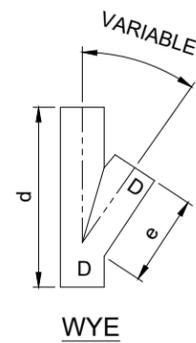
END VIEW A-A



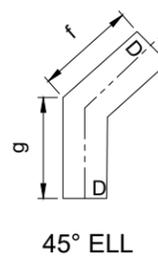
SECTION C-C



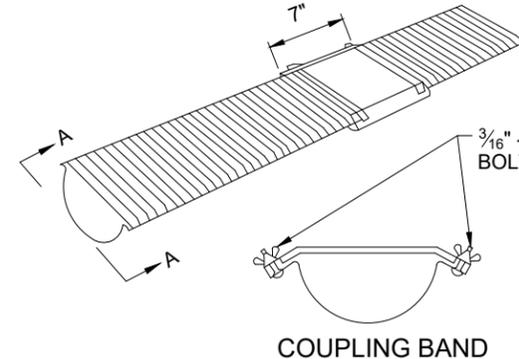
SCREEN FOR UNDERDRAIN
N.T.S.



WYE

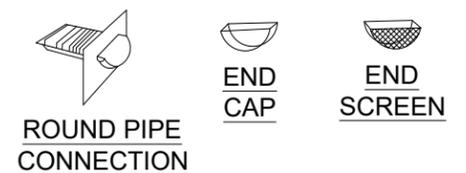


45° ELL



COUPLING BAND

SEMICIRCULAR UNDERDRAIN PIPE



FULTON COUNTY STANDARD DETAIL 520
STANDARD PERFORATED UNDERDRAIN

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026



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DRAWING NO.
520

NOTES:

1. ALL C.M.P PIPE SHALL BE HALF-COATED WITH A PAVED INVERT, EXCEPT AS FOLLOWS: FULLY COATED PIPE WITH A PAVED INVERT MAY BE USED UNDER THE FOLLOWING CONDITIONS:
 - 1.1. A SMALL PIECE OF ONE OF THE PIPES IN EACH SIZE CATEGORY WILL BE CHOSEN AT RANDOM BY A FULTON COUNTY INSPECTOR.
 - 1.2. THIS PIPE IS TO BE TESTED FOR GAUGE AND COMPOSITION BY AN INDEPENDENT TESTING LABORATORY.
 - 1.3. IF, AFTER TESTING, THE TEST REPORT INDICATES THAT THE PIPE DOES NOT MEET COUNTY SPECIFICATIONS, THE CONTRACTOR MUST IMMEDIATELY REMOVE ALL PIPE ON THE JOB AND TEST EACH PIECE.
 - 1.4. COST OF ALL TESTS ARE TO BE BORN BY THE DEVELOPER.
 - 1.5. CONC. PIPE REQUIRED UNDER ALL ROADWAYS & ON CROSS DRAINS.

TABLE 521-1 PIPE GAUGE AND THICKNESS					
THICKNESS	0.064"	0.079"	0.109"	0.138"	0.168"
GAGE	16	14	12	10	8

**TABLE 521 - 2
PIPE GAUGE AND CLASS BY PIPE DIAMETER (INCHES)**

		15		18		24		30		36		42		48		54		60		66		72		78		84		90		96		102		108	
		C	S	C	S	C	S	C	S	C	S	C	S	C	S	C	S	C	S	C	S	C	S	C	S	C	S	C	S	C	S	C	S		
HEIGHT OF FILL IN FEET ABOVE TOP OF PIPE**	1-10	III	16	III	16	III	16	III	16	III	16	III	16	III	16	III	14	III	12	III	12	III	10	III	8	III	8	III	USE	III	USE	III	USE	III	USE
	10-15	III	16	III	16	III	16	III	16	III	16	III	16	III	16	III	14	III	12	III	12	III	10*	III	8	III	8	III	USE	III	STRUCTURAL	III	STRUCTURAL	III	STRUCTURAL
	15-20	IV	16	IV	16	IV	16	IV	16	IV	16	IV	14	IV	12	IV	10*	IV	8*	IV	12*	IV	10*	IV	8*	IV	8*	IV	STRUCTURAL	IV	STRUCTURAL	IV	STRUCTURAL	IV	STRUCTURAL
	20-25	V	16	V	16	V	16	V	14	V	10	V	16*	V	16*	V	14*	V	12*	V	12*	V	10*	V	8*	V	STRUCTURAL								
	25-30	V	16	V	16	V	16	V	10	V	14*	V	14*	V	14*	V	14*	V	12*	V	10*	V	8*	V	STRUCTURAL										
	30-35	V	16	V	16	V	12	V	8*	V	12*	V	14*	V	14*	V	14*	V	10*	V	10*	V	10*	V	STRUCTURAL										
	35-40	V	16	V	16	V	12	V	12*	V	10*	V	12*	V	12*	V	8*	V	8*	V	8*	V	8*	V	STRUCTURAL										
	40-50	V	16	V	14	V	10	V	8*	V	10	V	8*	V	0*	V	0	V	0	V	0	V	0	V	STRUCT.										
	50-60	V	16	V	12	V	Φ	V	Φ	V	8	V	0	V	0	V	0	V	0	V	0	V	0	V	PLT.										
	60-70	V	14	V	12	V	Φ	V	Φ	V	10*	V	0	V	0	V	0	V	0	V	0	V	0	V	PLT.										
70-80	V	12	V	10	V	Φ	V	Φ	V	0	V	0	V	0	V	0	V	0	V	0	V	0	V	PLT.	V	PLT.	V	PLT.	V	PLT.	V	PLT.	V	PLT.	

* PIPE SHALL BE CIRCULAR CROSS-SECTION, FACTORY ELONGATED.
 ** WHERE H=10', 15', 20' ETC. USE GAUGE THICKNESS IN INCHES OR CLASS OF PIPE SPECIFIED FOR NEXT HIGHEST INCREMENTS OF HEIGHT OF FILL
 NP NOT PERMITTED
 C REINFORCED CONCRETE PIPE
 S CORRUGATED METAL PIPE
 Φ USE 60" STRUCTURAL PLATE PIPE

521-S.dwg December 08, 2025 2:44pm

**FULTON COUNTY STANDARD DETAIL 521
PIPE GAUGE AND CLASS
(CONCRETE & CORRUGATED STEEL PIPE)**

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
 APPROVED: TM
 DATE: 01-21-2026

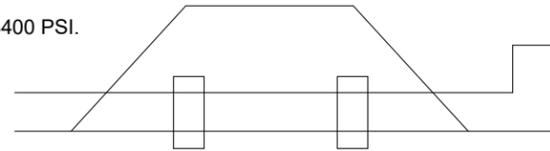


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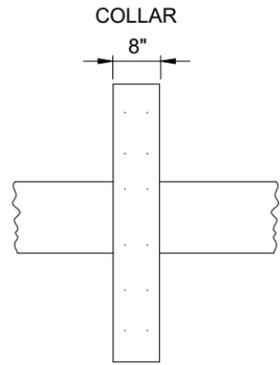
DRAWING NO.
521

ANTI - SEEP COLLARS

1. MUST BE FORMED
2. CLASS A CONCRETE, 3400 PSI.
3. MUST BE INSPECTED PRIOR TO POURING CONCRETE.

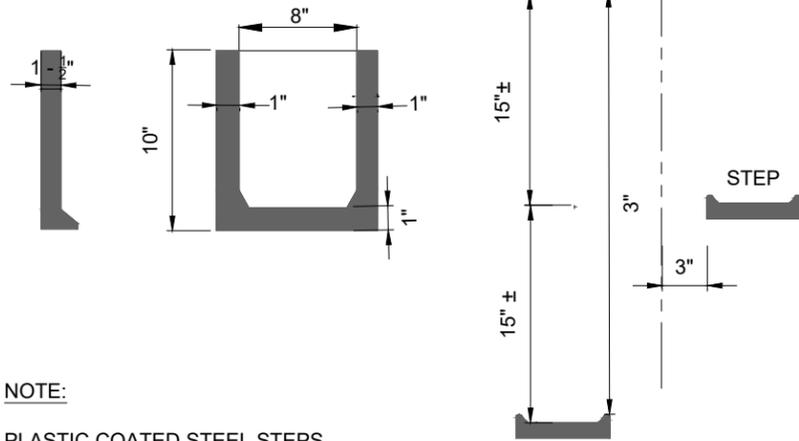


2 COLLARS
LOCATION - ONE AT TOP OF FRONT SLOPE & ONE AT TOP OF BACK SLOPE



= OUTSIDE OD + 2'
2 MATS OF #5 ON 8" CENTER

ARRANGEMENTS OF STEPS

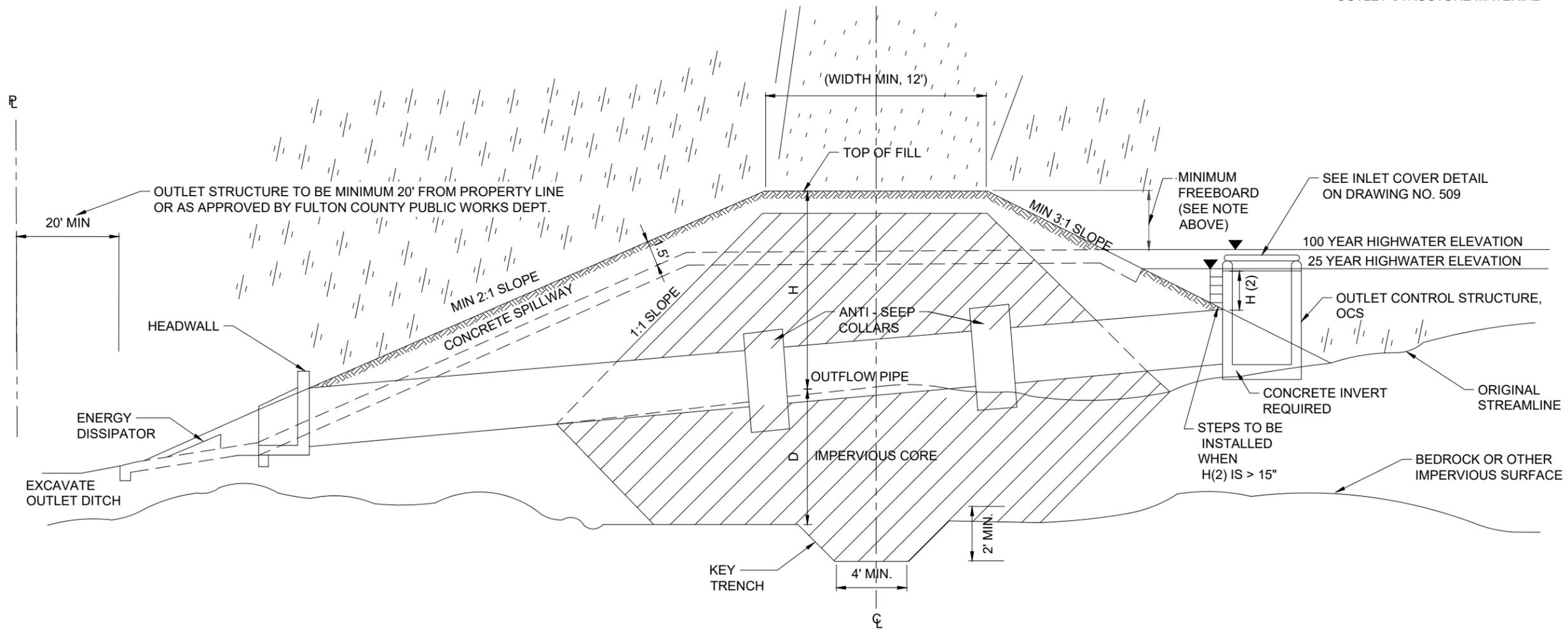


NOTE:

PLASTIC COATED STEEL STEPS ARE REQUIRED ON THE OUTSIDE OF THE CONTROL STRUCTURE AS SHOWN.

NOTES:

1. IT IS PREFERABLE TO HAVE A FREEBOARD OF 2 FEET MINIMUM. FOR SMALL DETENTION FACILITIES, AN ABSOLUTE MINIMUM FREEBOARD OF 1 FOOT SHALL BE PROVIDED. REFERENCE PAGE 172 OF MANUAL ON DRAINAGE DESIGN FOR FULTON COUNTY, JANUARY 1983. A SMALL DETENTION FACILITY IS 3 FEET OR LESS TO THE 25 YEAR ELEVATION.
2. SLOPES SHOWN ARE STEEPEST ALLOWABLE. CORE TO BE CLAY OR OTHER IMPERVIOUS MATERIAL. D, DEPTH OF CORE, MUST BE TO IMPERVIOUS MATERIAL OR A MINIMUM DEPTH EQUAL TO H. CORE TO BE PLACED IN 6" LAYERS & COMPACTED TO 95% STANDARD PROCTOR. WIDTH = (H/5) + 12.
3. EMERGENCY SPILLWAYS ARE TO BE CUT IN NATURAL GROUND WHERE APPLICABLE.
4. EMERGENCY SPILLWAYS ARE TO BE CUT IN NATURAL GROUND WHERE APPLICABLE.
5. ALTERNATE DESIGNS MAY BE APPROVED OR WILL BE CONSIDERED BY FULTON COUNTY PUBLIC WORKS.
6. PROVIDE CONCRETE ONLY FOR OUTFLOW PIPE AND OUTLET STRUCTURE MATERIAL



FULTON COUNTY STANDARD DETAIL 522
EARTH FILL DAM FOR DETENTION PONDS

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026

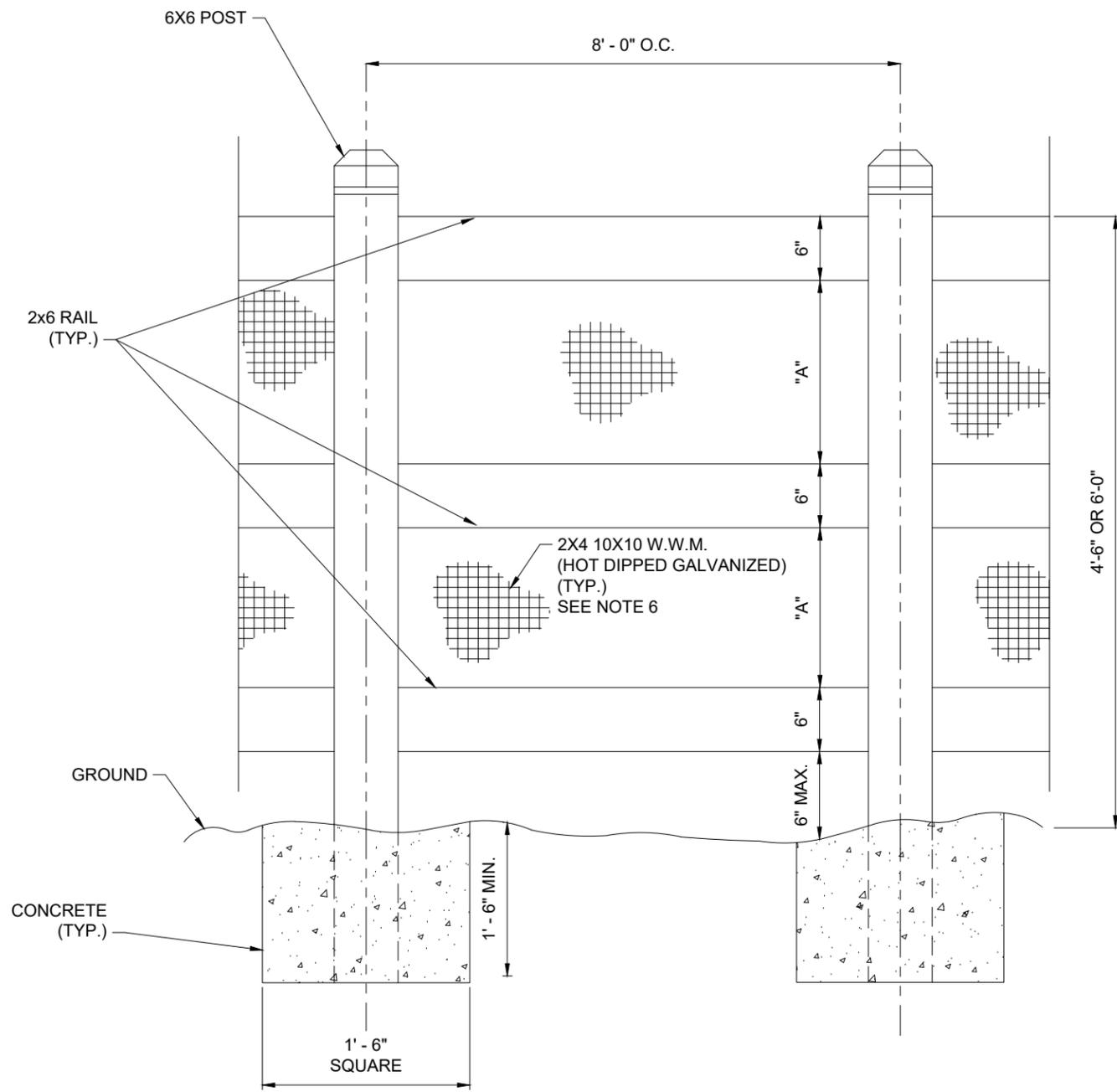


FULTON COUNTY PUBLIC WORKS
141 PRYOR ST. ATLANTA, GA. 30303
404-612-7400 FAX: 404-224-0498

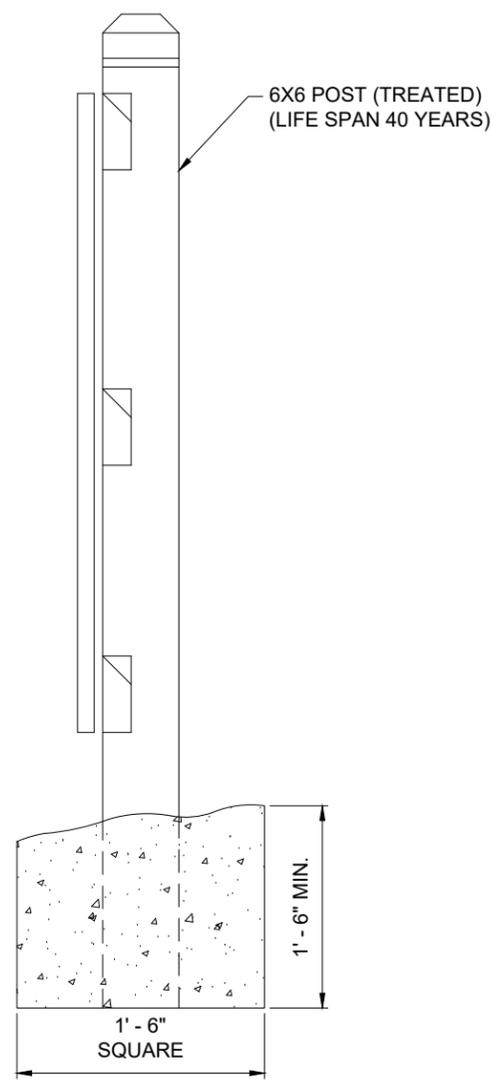
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522

523-S.dwg December 08, 2025 2:44pm



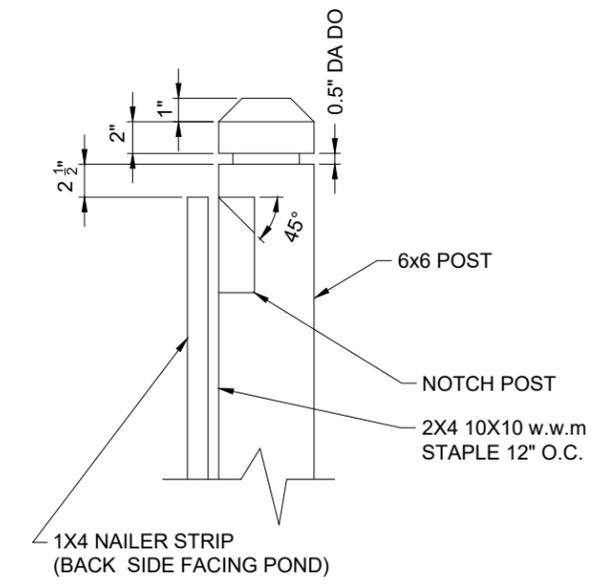
ELEVATION
N.T.S.



SECTION
N.T.S.

TABLE 523 - 1
FENCE DIMENSIONS

TYPE	"A"
6'-0" HIGH FENCE	2'-0"
4'-6" HIGH FENCE	1'-3"



DETAIL
N.T.S.

- NOTES:**
1. ALL FASTENERS TO BE IN COMPLIANCE WITH MANUFACTURER SPECIFICATIONS
 2. 2x4 10x10 WELDED WIRE MESH (W.W.M.) TO BE HOT-DIPPED GALVANIZED.
 3. CONCRETE SHALL BE 2500 P.S.I.
 4. A 4' - 6" HIGH FENCE CAN BE ERECTED WHEN THE POND IS 3' - 0" OR LESS TO THE 25 YEAR STORM ELEVATION.
 5. A FENCE IS ALWAYS REQUIRED.
 6. OTHER WIRE GAUGES CAN BE ACCEPTED AS REQUIRED BY ENGINEER.
 7. FENCE TO BE PLACED OUTSIDE OF ACCESS.
 8. ACCESS ROAD TO BE 10' INSIDE OF FENCE.
 9. FENCE TO BE PLACED AT 25 YEAR STORM ELEVATION.

FULTON COUNTY STANDARD DETAIL 523
FENCE DETAIL FOR DETENTION PONDS
SHEET 1 OF 2

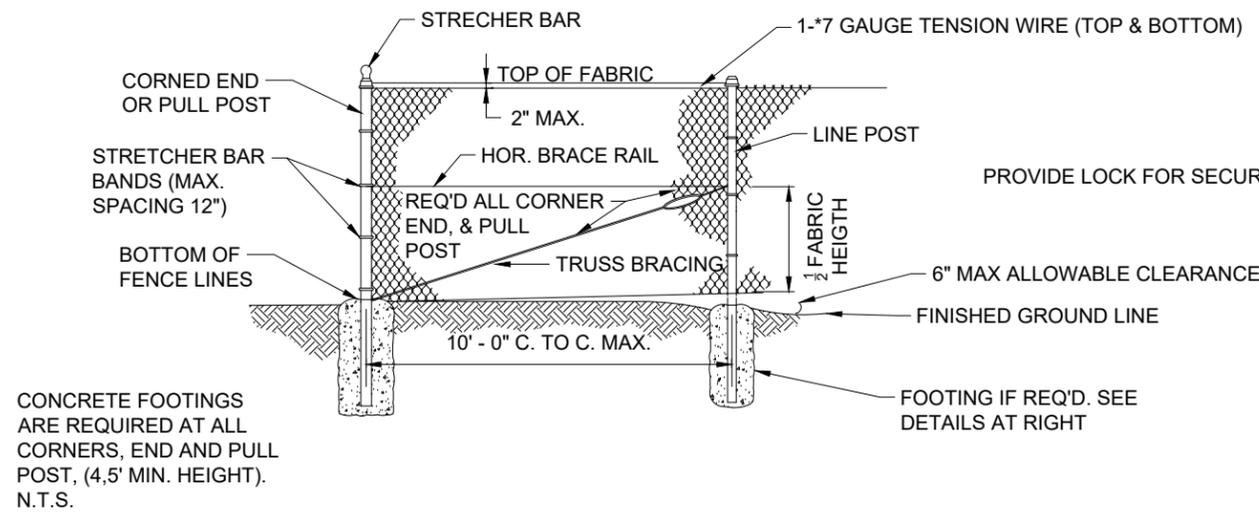
DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026

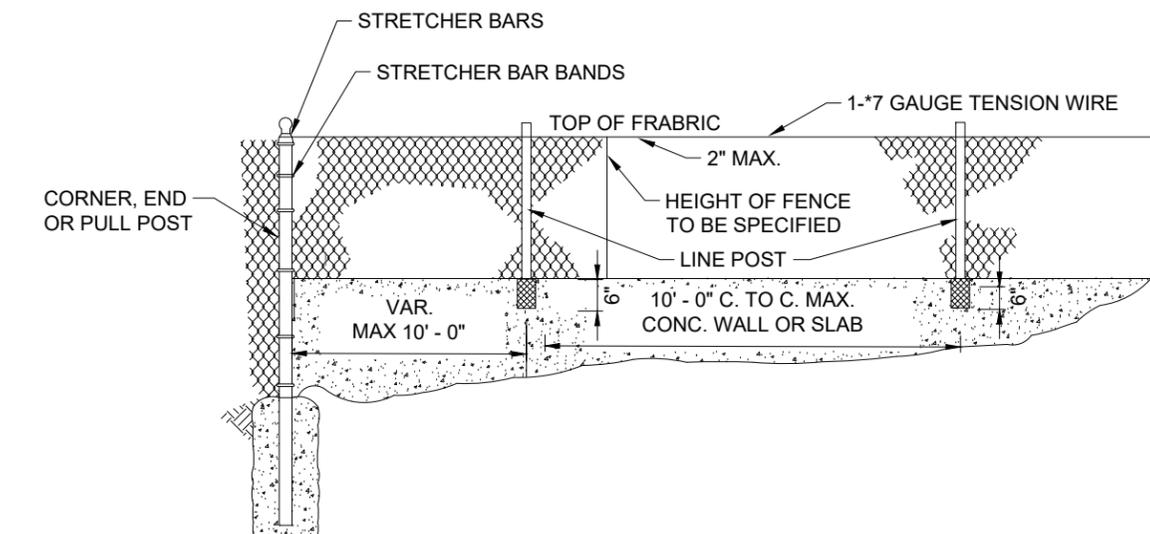


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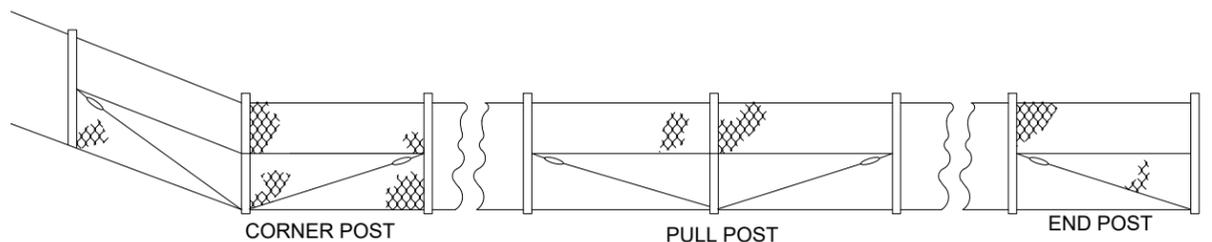
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523



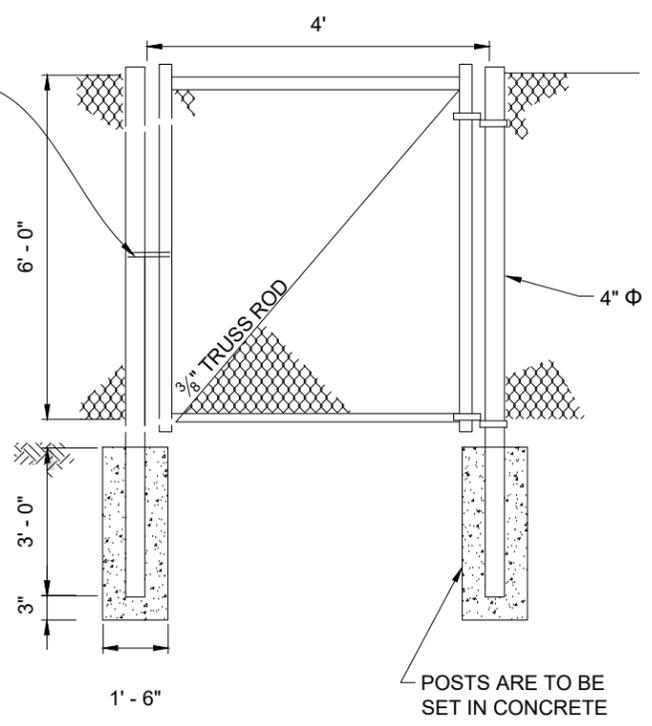
CONCRETE FOOTINGS ARE REQUIRED AT ALL CORNERS, END AND PULL POST, (4,5' MIN. HEIGHT). N.T.S.



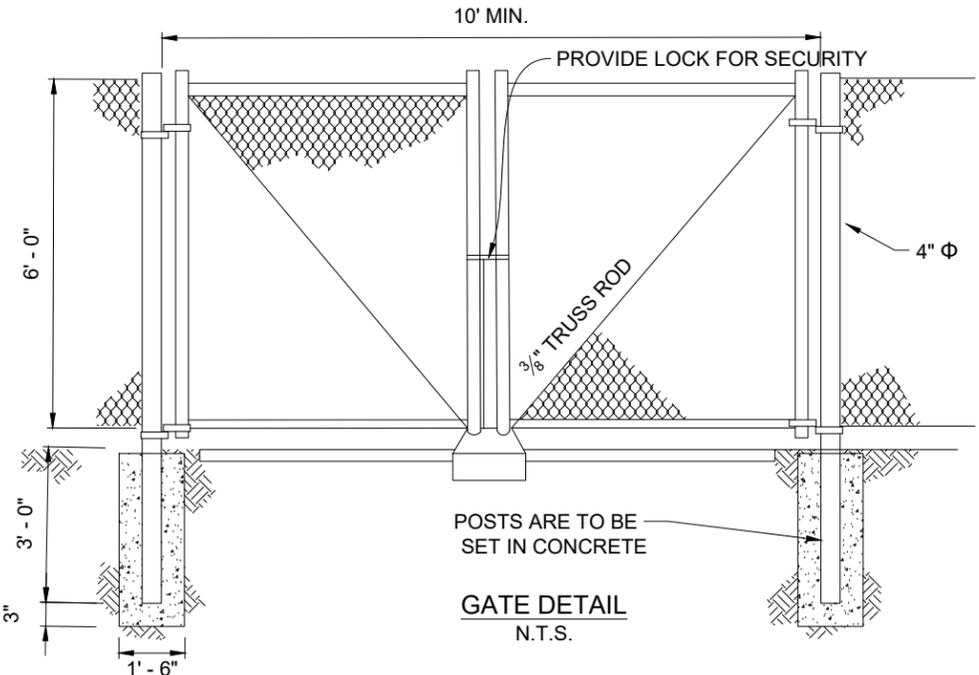
METHOD OF INSTALLATION OVER CONCRETE WALL OR SLAB AND ALSO WHERE HEIGHT OF FENCE CHANGES
N.T.S.



METHOD OF BRACING END, CORNER AND PULL POST
N.T.S.



WALK GATE DETAIL
N.T.S.



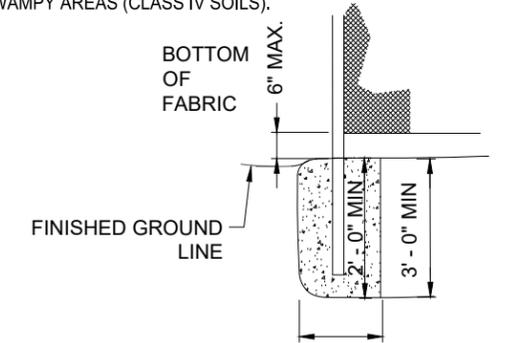
GATE DETAIL
N.T.S.

NOTES:

- FABRIC SHALL BE FASTENED TO LINE POST AT INTERVALS NOT GREATER THAN 14".
- TENSION WIRES SHALL BE TIED TO FABRIC WITH 9 GA. WIRE OR 11 GA. HOG RINGS AT 24" C. TO C. MAX SPACINGS.
- WHERE A PROPERTY OWNERS CHAIN LINK WIRE FENCE HAS TO BE REPLACED BY THE DEPARTMENT AS PART OF THE CONSTRUCTION PROJECT, AND THE EXISTING FENCE HAD A TOP RAIL, THEN THE NEW REPLACEMENT FENCE SHALL ALSO HAVE A SIMILAR TYPE RAIL INSTEAD OF A TENSION WIRE AT THE TOP OF THE FENCE.
- HORIZONTAL BRACE RAILS AND TRUSS BRACING SHALL BE REQUIRED AT ALL CORNER, END AND PULL POSTS.
- LINE POST SPECIFICATION IS 2" , 20 WT.
- CORNER END AND PULL POST SPECIFICATION IS 2 3/8" , 20 WT.
- FENCE FABRIC SPECIFICATION IS 11.5 GAUGE.
- ALL CORNER, END AND PULL POSTS SHALL HAVE CONCRETE FOOTINGS AS SHOWN.
- ALL ALTERNATE DESIGN(S) TO BE APPROVED BY FCPW DIRECTOR.
- 4' WIDE WALK GATE TO BE LOCATED NEAR OUTLET CONTROL STRUCTURE.

*ALTERNATE:

TYPE "C" LINE POSTS OR 2 3/8" Ø TUBE LINE POSTS OR OTHER TYPE LINE POSTS APPROVED BY THE D.O.T. LABORATORY MAY BE DRIVEN TO A MINIMUM DEPTH OF THREE (3) FEET INSTEAD OF CONCRETE FOOTING SHOWN PROVIDING SOIL IS EITHER CLASS I, II, III, OR V SOIL. CONCRETE FOOTING REQUIRED FOR LINE POSTS INSTALLED IN MARSHY OR SWAMPY AREAS (CLASS IV SOILS).



18" DIA FOR END, CORNER AND PULL POST REQUIRED

12" DIA FOR LINE POST (IF CONCRETE FOOTING IS REQUIRED)

FOOTING DETAILS FOR FENCE POSTS
N.T.S.

524-S.dwg December 08, 2025 2:44pm

FULTON COUNTY STANDARD DETAIL 524
FENCE DETAIL FOR DETENTION PONDS
SHEET 2 OF 2

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026

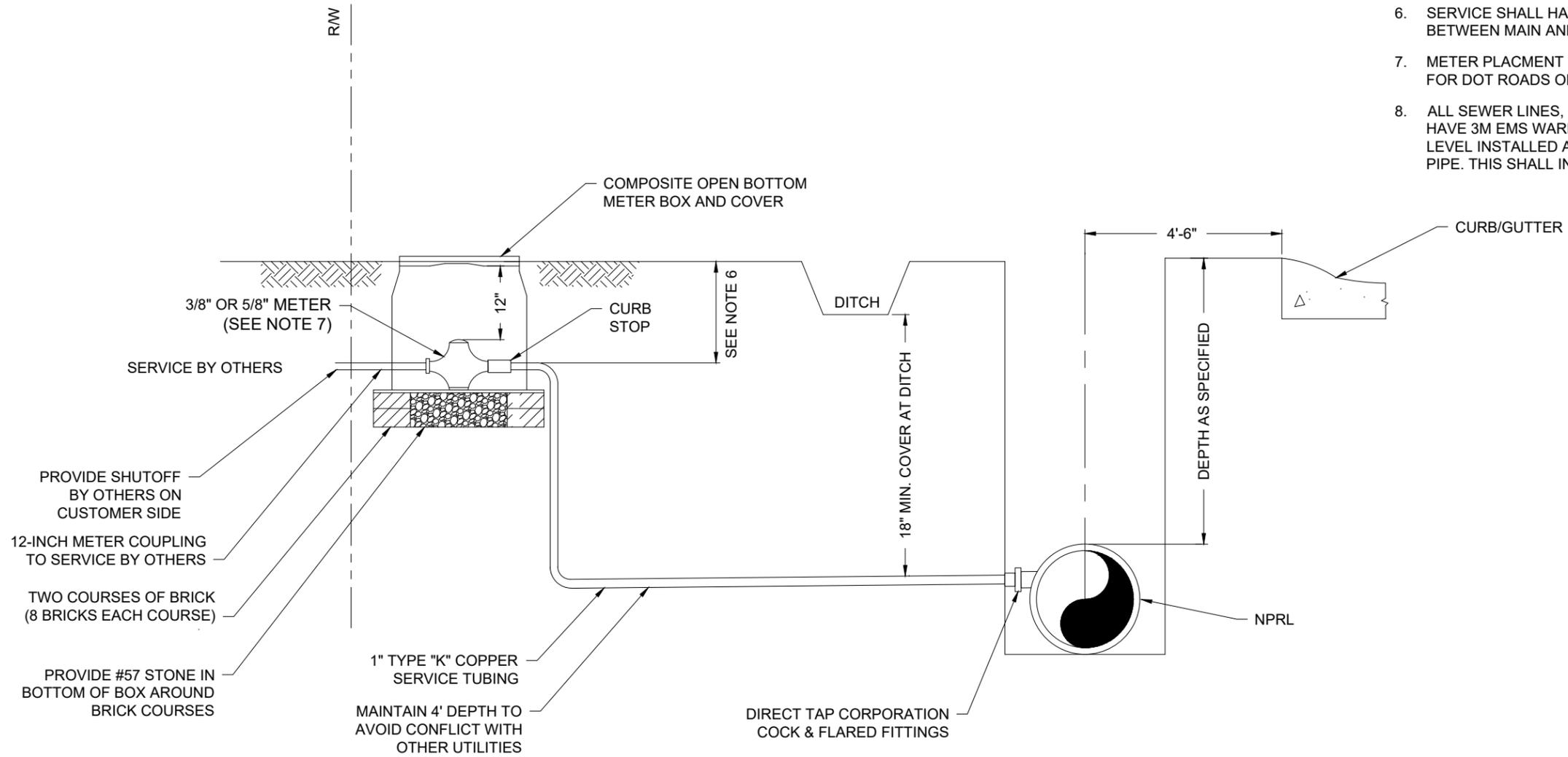


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DRAWING NO.
524

NOTES:

1. SERVICE LINE SHALL BE 3/4" DIAMETER FROM MAIN TO METER.
2. USE ALL FLARE JOINTS.
3. INSTALLATION SHALL ALLOW ADEQUATE ROOM TO REMOVE AND/OR REPAIR METER.
4. METER BOX SHALL BE APPROXIMATELY 12" X 18" X 18" DEEP.
5. TYPE K COPPER SERVICE LINE MUST BE CONTINUOUS FROM METER TO MAIN.
6. SERVICE SHALL HAVE 18 IN. MIN. COVER AT METER AND 30 IN. MIN. COVER BETWEEN MAIN AND METER.
7. METER PLACEMENT SHALL BE INSIDE R/W FOR NON-DOT ROADS, OUTSIDE R/W FOR DOT ROADS OR AS REQUIRED BY LOCAL AUTHORITIES W/ JURISDICTION.
8. ALL SEWER LINES, WATER, REUSE LINES, AND FORCE MAIN LINES SHALL HAVE 3M EMS WARNING TAPE 7900 SERIES BURIED 4-FOOT BELOW GROUND LEVEL INSTALLED ABOUT THE PIPE OR MINIMUM OF 1-FOOT ABOVE TOP OF PIPE. THIS SHALL INCLUDE SEWER LATERALS AND WATER SERVICE LINES.



METER INSTALLATION ELEVATION DETAIL
NTS

FULTON COUNTY STANDARD DETAIL 601

3/8" & 5/8" RECLAIMED WATER METER INSTALLATION

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
 APPROVED: TM
 DATE: 01-21-2026



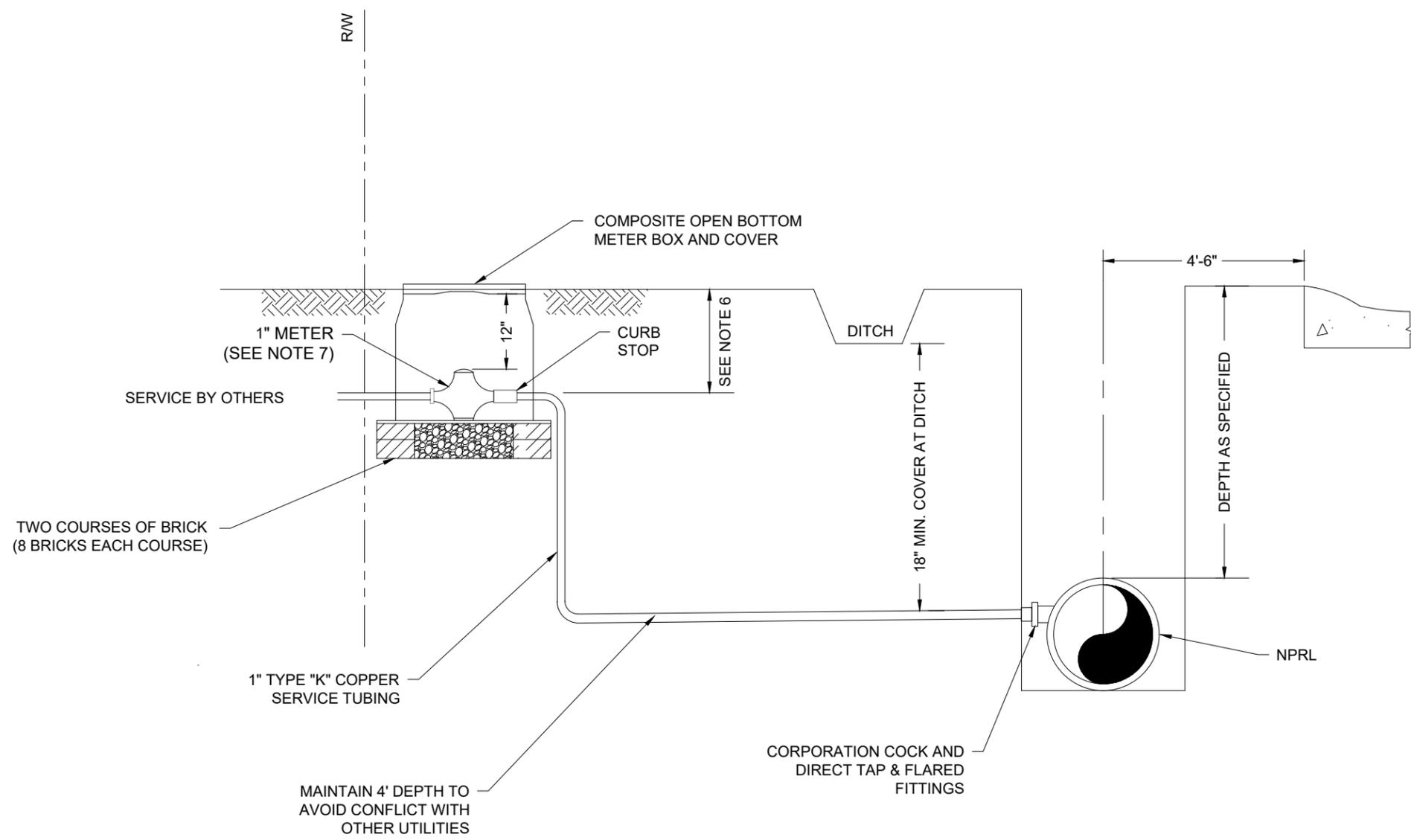
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DRAWING NO.

601

NOTES:

1. SERVICE LINE SHALL BE 1" DIAMETER FROM MAIN TO METER.
2. USE ALL FLARE JOINTS.
3. INSTALLATION SHALL ALLOW ADEQUATE ROOM TO REMOVE AND/OR REPAIR METER.
4. METER BOX SHALL BE APPROXIMATELY 18" x 24" X 18" DEEP.
5. TYPE K COPPER SERVICE LINE MUST BE CONTINUOUS FROM METER TO MAIN.
6. SERVICE SHALL HAVE 18" MIN. AT METER AND 30" MIN. COVER BETWEEN MAIN AND METER.
7. METER PLACEMENT SHALL BE INSIDE R/W FOR NON-DOT ROADS, OUTSIDE R/W FOR DOT ROADS OR AS REQUIRED BY LOCAL AUTHORITIES W/ JURISDICTION.
8. ALL SEWER LINES, WATER, REUSE LINES, AND FORCE MAIN LINES SHALL HAVE 3M EMS WARNING TAPE 7900 SERIES BURIED 4-FEET BELOW GROUND LEVEL INSTALLED ABOUT THE PIPE OR MINIMUM OF 1-FOOT ABOVE TOP OF PIPE. THIS SHALL INCLUDE SEWER LATERALS AND WATER SERVICE LINES.



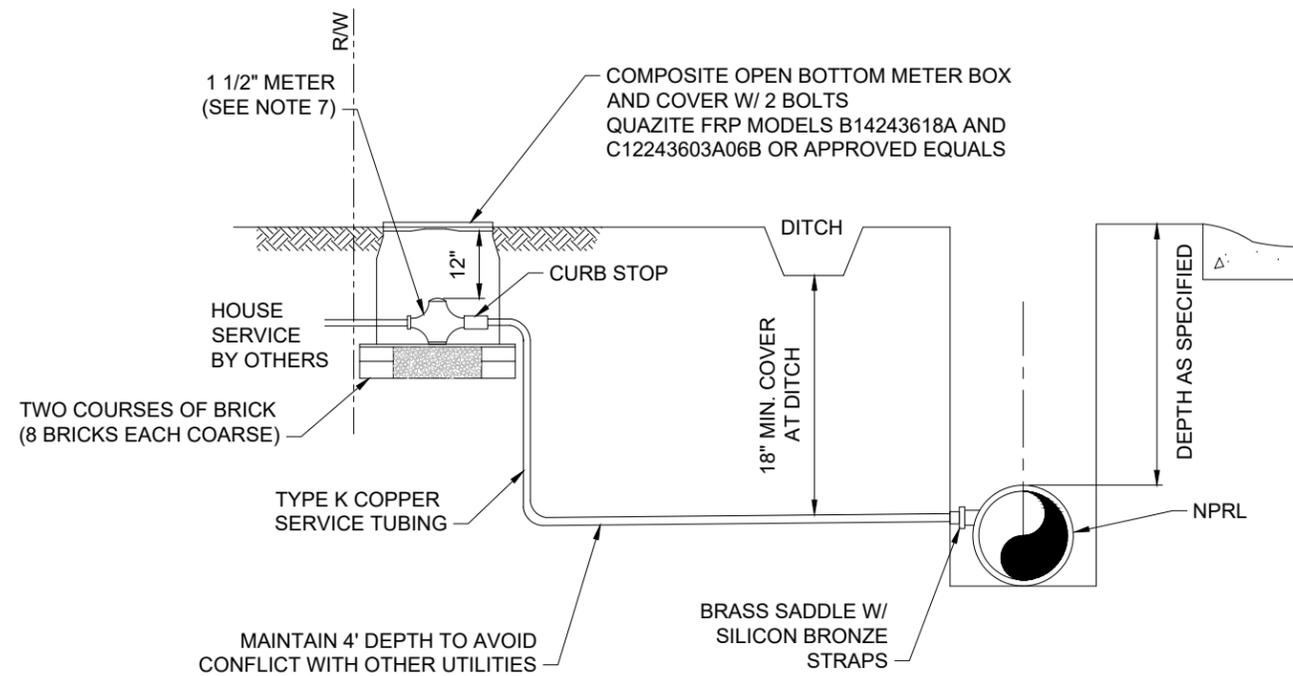
METER INSTALLATION ELEVATION DETAIL
N.T.S.

602-S.dwg December 08, 2025 10:15am

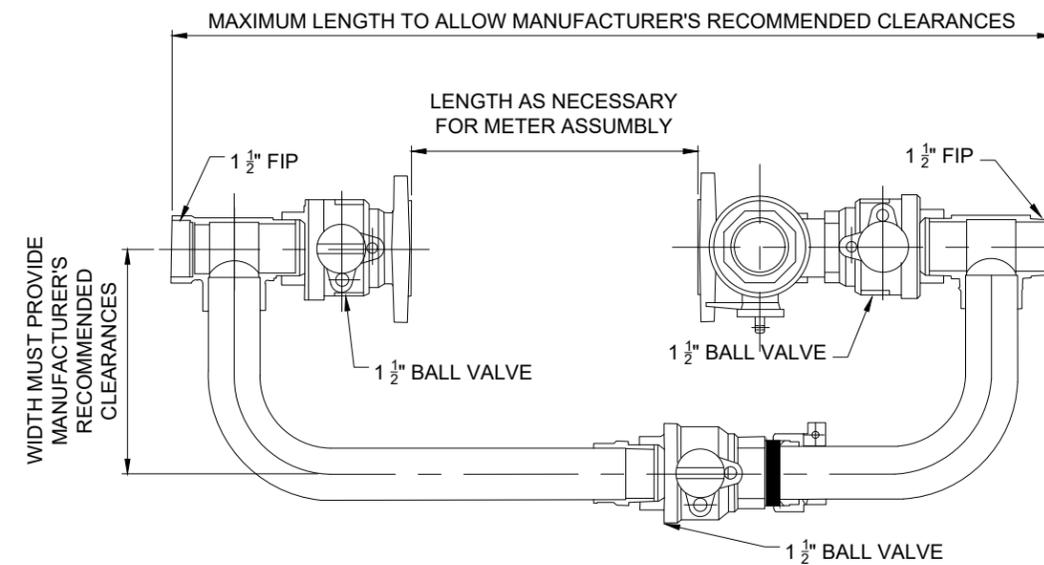
FULTON COUNTY STANDARD DETAIL 602 1" RECLAIMED WATER METER INSTALLATION		DATE	REVISIONS	DATE	REVISIONS			FULTON COUNTY PUBLIC WORKS 141 PRYOR ST. ATLANTA, GA. 30303 404-612-7400 FAX: 404-224-0498	DRAWING NO. 602
						DGS/DRN/CHKD: MB/EB/ML			
						APPROVED: TM			
						DATE: 01-21-2026			

NOTES:

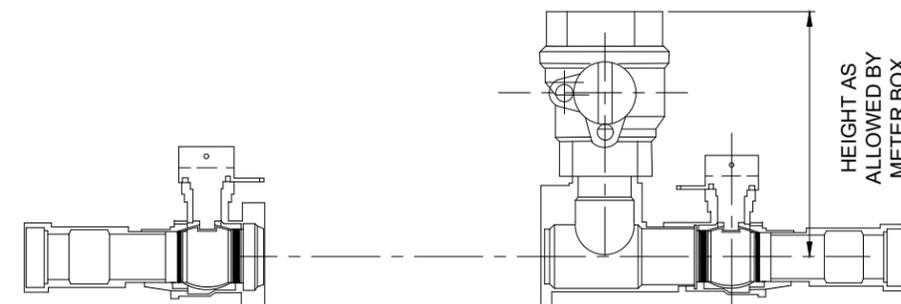
1. SERVICE LINE SHALL BE 1 1/2" FROM THE MAIN TO THE METER.
2. USE ALL COMPRESSION GRIP JOINTS.
3. INSTALLATION SHALL ALLOW ADEQUATE ROOM TO REMOVE AND/OR REPAIR METER.
4. METER BOX SHALL BE APPROXIMATELY 24" x 36" x 18" DEEP.
5. TYPE K COPPER SERVICE LINE MUST BE CONTINUOUS FROM METER TO MAIN.
6. SERVICE SHALL HAVE 18" MIN. AT METER, AND 30" MIN. COVER BETWEEN MAIN AND METER.
7. METER PLACEMENT SHALL BE INSIDE R/W FOR NON-DOT ROADS, OUTSIDE R/W FOR DOT ROADS OR AS REQUIRED BY LOCAL AUTHORITIES W/ JURISDICTION.
8. ALL SEWER LINES, WATER, REUSE LINES, AND FORCE MAIN LINES SHALL HAVE 3M EMS WARNING TAPE 7900 SERIES BURIED 4-FEET BELOW GROUND LEVEL INSTALLED ABOUT THE PIPE OR MINIMUM OF 1-FOOT ABOVE TOP OF PIPE. THIS SHALL INCLUDE SEWER LATERALS AND WATER SERVICE LINES.



METER INSTALLATION ELEVATION DETAIL
N.T.S.



TYPICAL BYPASS DETAIL - PLAN
N.T.S.



TYPICAL BYPASS DETAIL - ELEVATION
N.T.S.

FULTON COUNTY STANDARD DETAIL 603
1 1/2" RECLAIMED WATER METER INSTALLATION

DATE	REVISIONS	DATE	REVISIONS

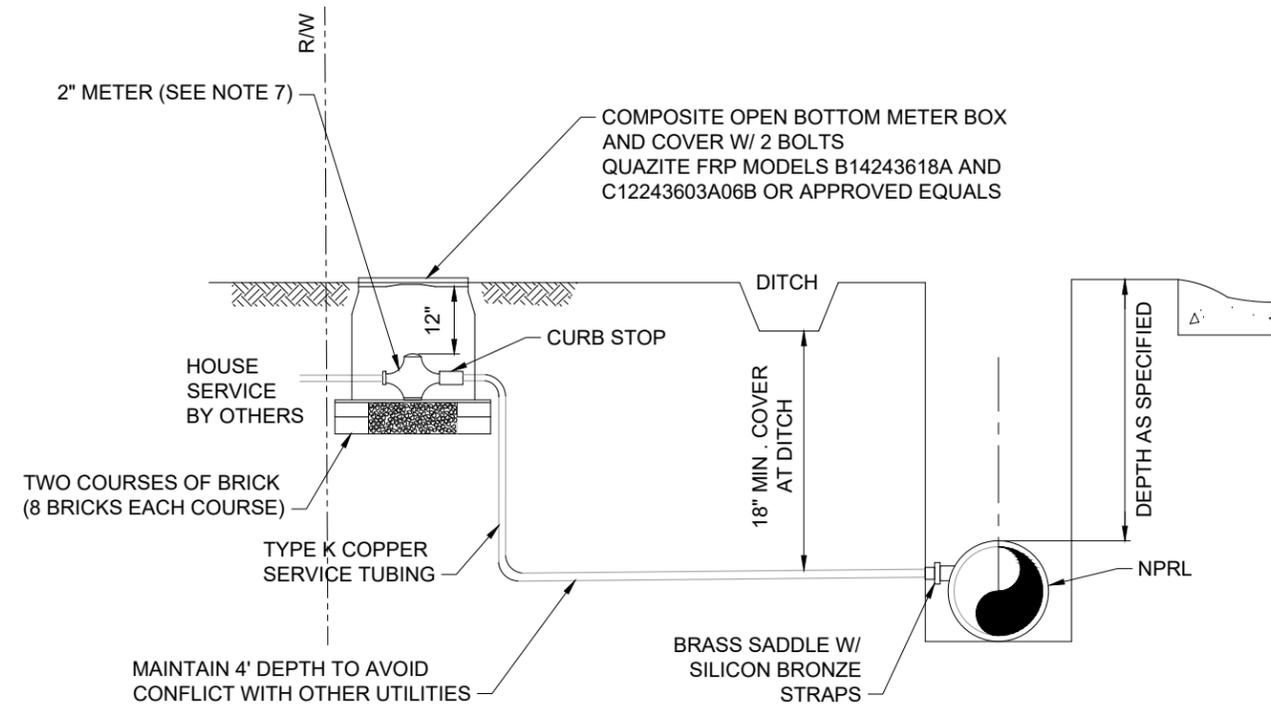
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APPROVED: TM
DATE: 01-21-2026



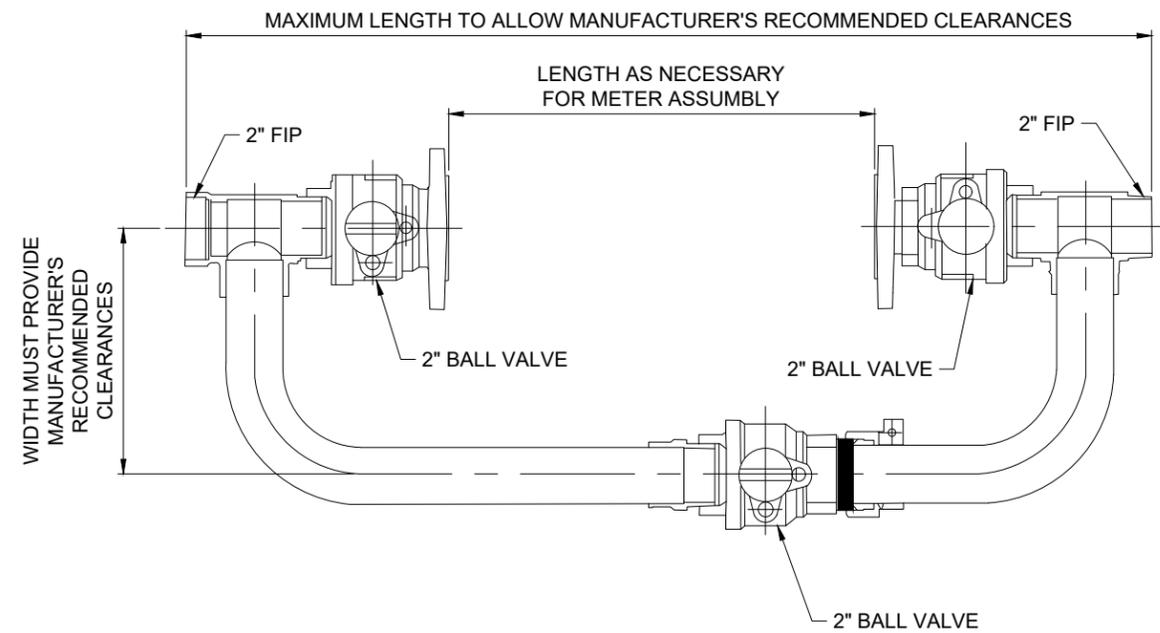
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DRAWING NO.

603



METER INSTALLATION ELEVATION DETAIL
N.T.S.



TYPICAL BYPASS DETAIL
N.T.S.

NOTES:

1. SERVICE LINE SHALL BE 2" FROM THE MAIN TO THE METER.
2. USE ALL COMPRESSION GRIP JOINTS.
3. INSTALLATION SHALL ALLOW ADEQUATE ROOM TO REMOVE AND/OR REPAIR METER.
4. METER BOX SHALL BE APPROXIMATELY 24" x 36" x 18" DEEP.
5. TYPE K COPPER SERVICE LINE MUST BE CONTINUOUS FROM METER TO MAIN.
6. SERVICE SHALL HAVE 18" MIN. COVER BETWEEN MAIN AND METER.
7. METER PLACEMENT SHALL BE INSIDE R/W FOR NON-DOT ROADS, OUTSIDE R/W FOR DOT ROADS OR AS REQUIRED BY LOCAL AUTHORITIES W/ JURISDICTION.
8. ALL SEWER LINES, WATER, REUSE LINES, AND FORCE MAIN LINES SHALL HAVE 3M EMS WARNING TAPE 7900 SERIES BURIED 4-FEET BELOW GROUND LEVEL INSTALLED ABOUT THE PIPE OR MINIMUM OF 1-FOOT ABOVE TOP OF PIPE. THIS SHALL INCLUDE SEWER LATERALS AND WATER SERVICE LINES.

FULTON COUNTY STANDARD DETAIL 604
2" RECLAIMED WATER METER INSTALLATION

DATE	REVISIONS	DATE	REVISIONS

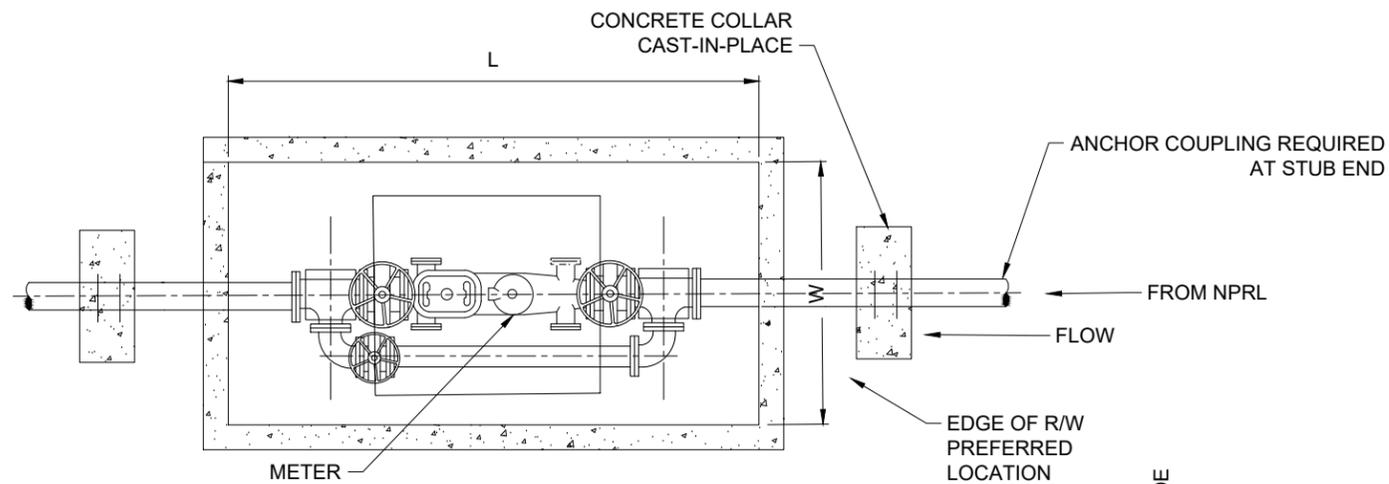
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APPROVED: TM
DATE: 01-21-2026



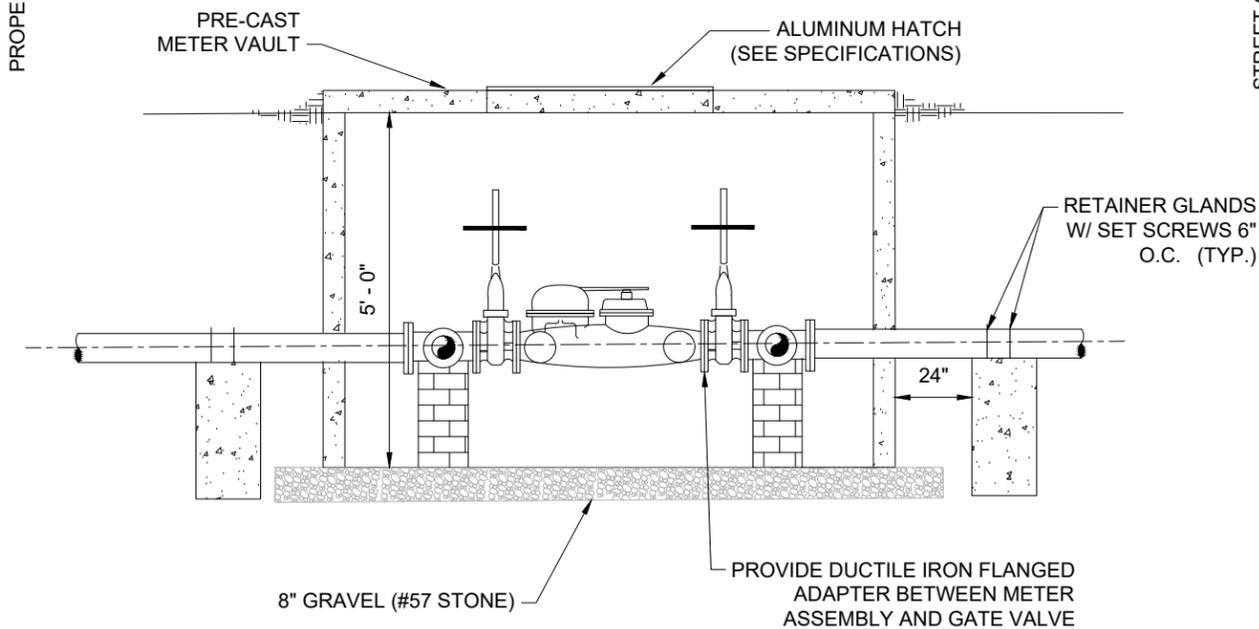
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DRAWING NO.

604



VAULT PLAN VIEW



VAULT ELEVATION VIEW

TABLE 605-1 SANITARY SEWER DIMENSIONS				
METER SIZE	VAULT			HATCH SIZE
	L	W	D	
3"	9'	5'	6'	3'6" X 3'6"
4"	9'	5'	6'	3'6" X 3'6"
6"	12'	6'	6'	4' X 6'
8"	12'	6'	6'	4' X 6'

NOTES:

- BOXES EXCEEDING 5' DEPTH MUST BE APPROVED BY FULTON COUNTY.
- WHEN METER BOX CANNOT BE LOCATED ENTIRELY ON R/W, A PERMANENT EASEMENT SHALL BE OBTAINED TO PREVENT FENCES OR OTHER OBSTRUCTIONS FROM BEING ERECTED AROUND THE METER BOX.
- COVER OPENING TO BE PLACED NEAREST THE METER REGISTER.
- THE METER MUST BE INSTALLED WITH AT LEAST 8 DIAMETERS OF STRAIGHT PIPE SAME SIZE AS METER ON THE INLET SIDE TO PERMIT ON-SITE MAINTENANCE AND CALIBRATION, A STRAINER MAY BE PROVIDED IN LIEU OF THE STRAIGHT PIPE IN ACCORDANCE WITH THE METER MANUFACTURER'S RECOMMENDATIONS, AN INLET AND OUTLET GATE VALVE WITH BYPASS LINE ARE REQUIRED (SEE ILLUSTRATION).
- THESE BOXES ARE NOT TO BE INSTALLED IN TRAFFIC AREAS WITHOUT PRIOR PERMISSION FROM FULTON COUNTY.
- ALL VALVES AND FITTINGS INSIDE THE VAULT SHALL BE FLANGED.
- ALL FITTINGS OUTSIDE THE VAULT SHALL BE PUSH-ON JOINT WITH AMERICAN 'FAST-GRIP' GASKETS OR APPROVED EQUAL.
- ALL METERS SHALL COME EQUIPPED WITH A TOUCHREAD OR TOUCHLESS SENSOR COMPATIBLE WITH FULTON COUNTY'S METER READING EQUIPMENT.
- THIS DETAIL ALSO AUTHORIZED FOR INSTALLATIONS OF 3" AND LARGER RE-USE METERS.
- HATCH SHALL BE 4' X 6', DOUBLE LEAF, FLUSH MOUNT, 1/4" DIAMOND PLATE, ALUMINUM DOORS LOCKABLE WITH A 5/8" ROD. HATCH SHALL BE BILCO #PDCM-3 OR PRE-APPROVED EQUAL FOR 6" & 8" METERS.
- HATCH SHALL BE 3'6" X 3'6" SINGLE LEAF FLUSH MOUNT 1/4" DIAMOND PLATE, ALUMINUM LOCKABLE WITH 5/8" ROD. HATCH SHALL BE B.LCO#PCM - 5 OR PRE-APPROVED EQUAL FOR 3" & 4" METERS.

FULTON COUNTY STANDARD DETAIL 605
LARGE RECLAIMED WATER METERS AND VAULT

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026

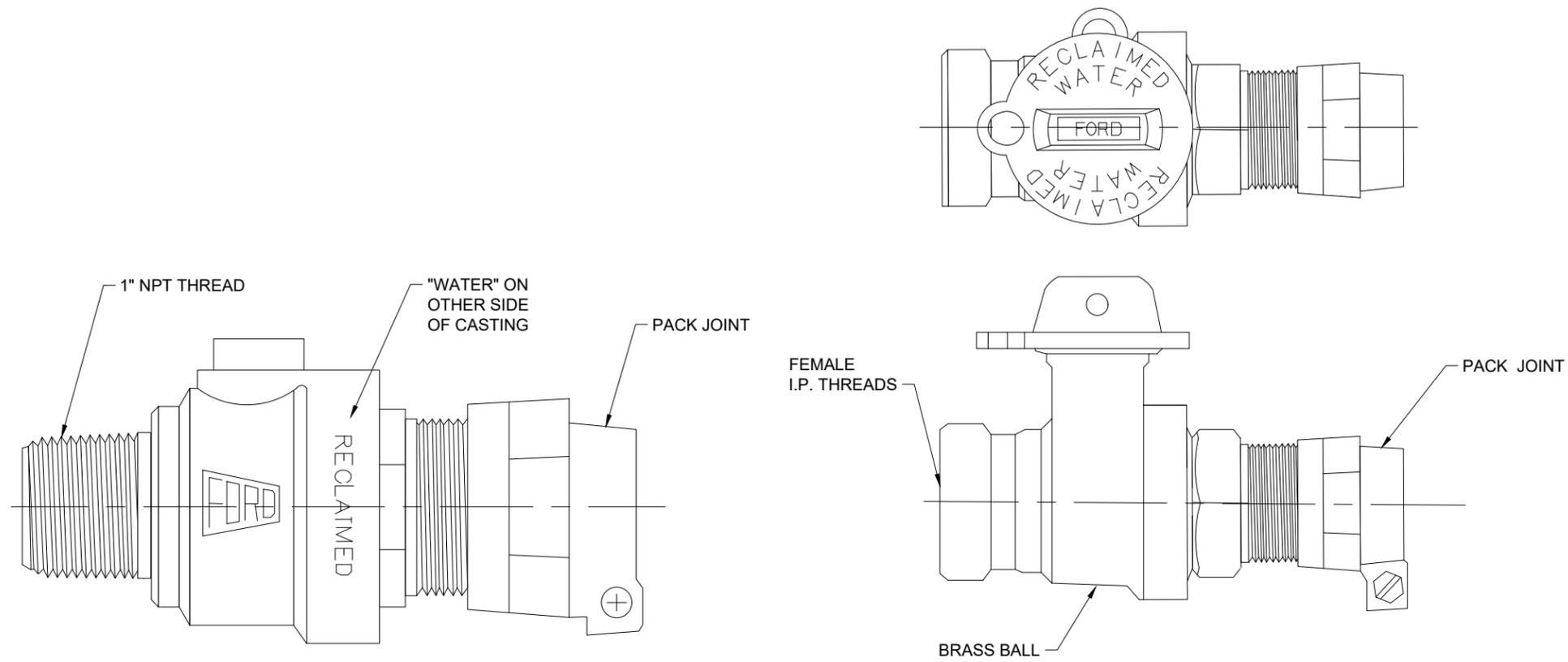


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DRAWING NO.
605

NOTES:

1. ALL FITTINGS TO BE BRASS MEETING AWWA C800 AND ASTM B62.



FULTON COUNTY STANDARD DETAIL 606

**BRASS FITTINGS FOR
METER INSTALLATION ON NPRL**

DATE	REVISIONS	DATE	REVISIONS

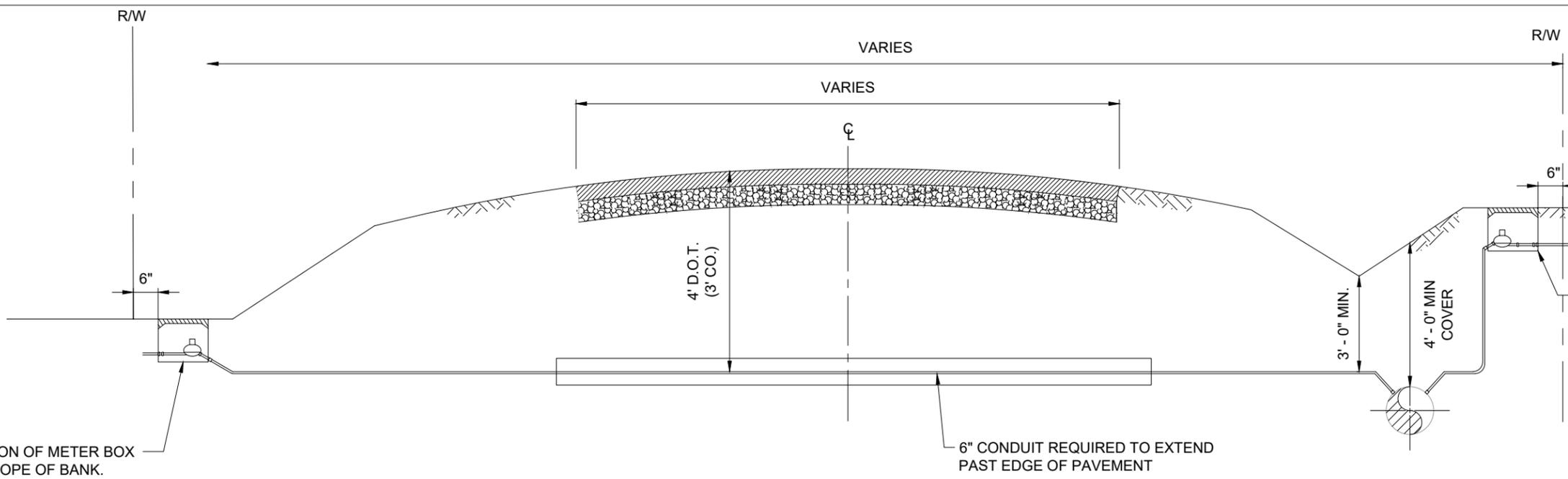
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606

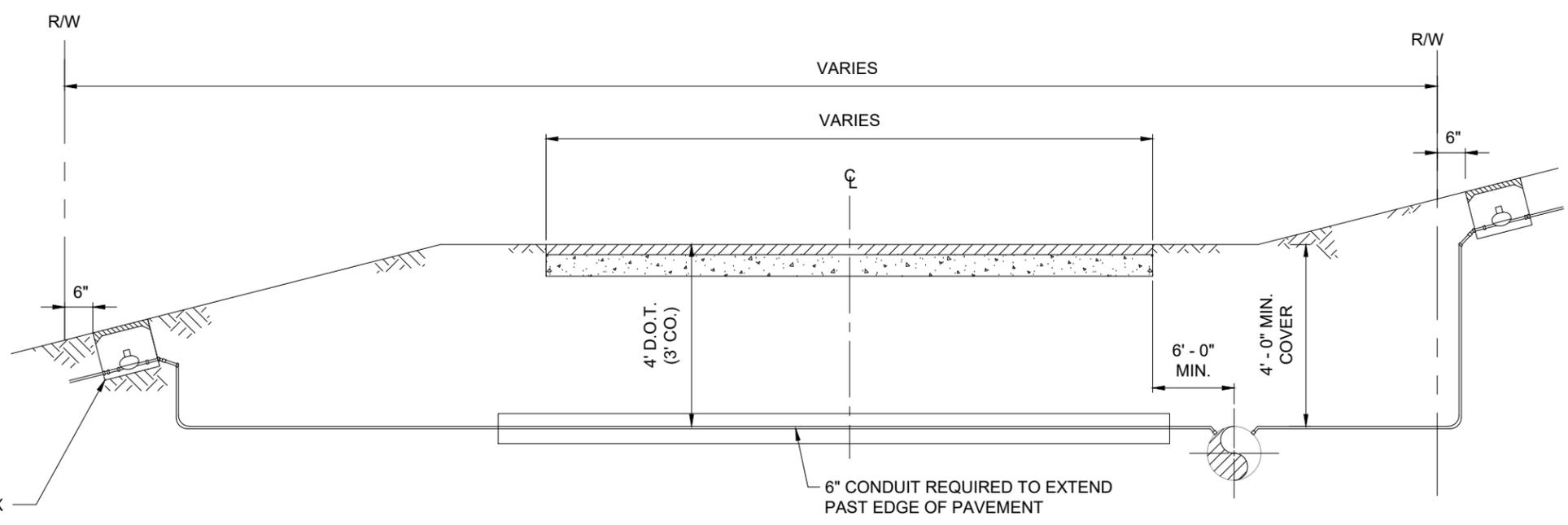


**CROWNED ROAD
DITCH & EMBANKMENT**

ACTUAL LOCATION OF METER BOX
DEPENDS ON SLOPE OF BANK.
IF IN DOUBT, INSPECTOR WILL DETERMINE
APPROPRIATE LOCATION.

- NOTES:**
1. THIS METER LOCATION IS THE APPROVED STANDARD WHERE THE METER TO BE LOCATED OUTSIDE OF THE R/W WITHOUT PRIOR ENGINEERING APPROVAL.
 2. ALL SEWER LINES, WATER, REUSE LINES, AND FORCE MAIN LINES SHALL HAVE 3M EMS WARNING TAPE 7900 SERIES BURIED 4-FEET BELOW GROUND LEVEL INSTALLED ABOUT THE PIPE OR MINIMUM OF 1-FOOT ABOVE TOP OF PIPE. THIS SHALL INCLUDE SEWER LATERALS AND WATER SERVICE LINES.

SEE NOTE 1



**FLAT OR CONCRETE ROAD
SLIGHT DITCH & EMBANKMENT**

ACTUAL LOCATION OF METER BOX
DEPENDS ON SLOPE OF BANK.
IF IN DOUBT, INSPECTOR WILL DETERMINE
APPROPRIATE LOCATION.

FULTON COUNTY STANDARD DETAIL 607
RECLAIMED WATER METER LOCATIONS: 3/4" - 2"

DATE	REVISIONS	DATE	REVISIONS

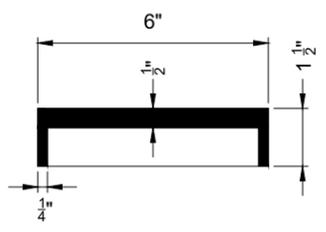
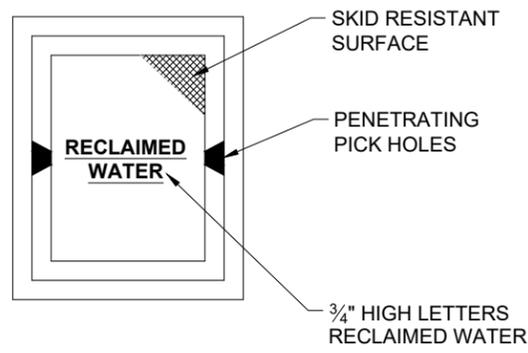
DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026



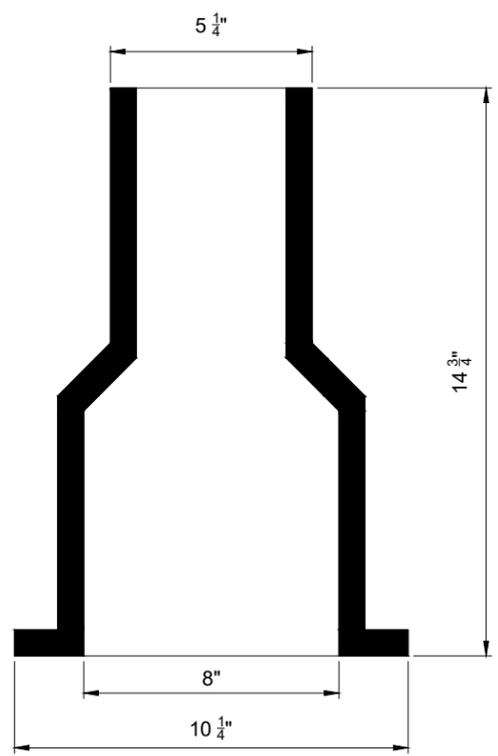
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DRAWING NO.
607

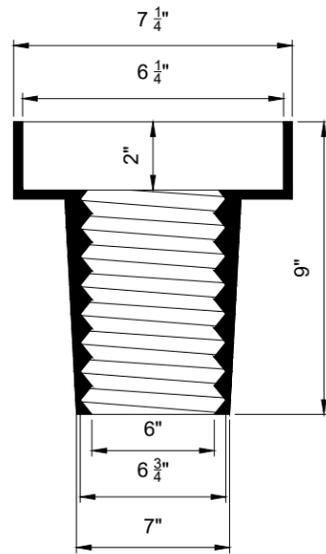
607-S.dwg December 08, 2025 10:15am



COVER



BOTTOM SECTION



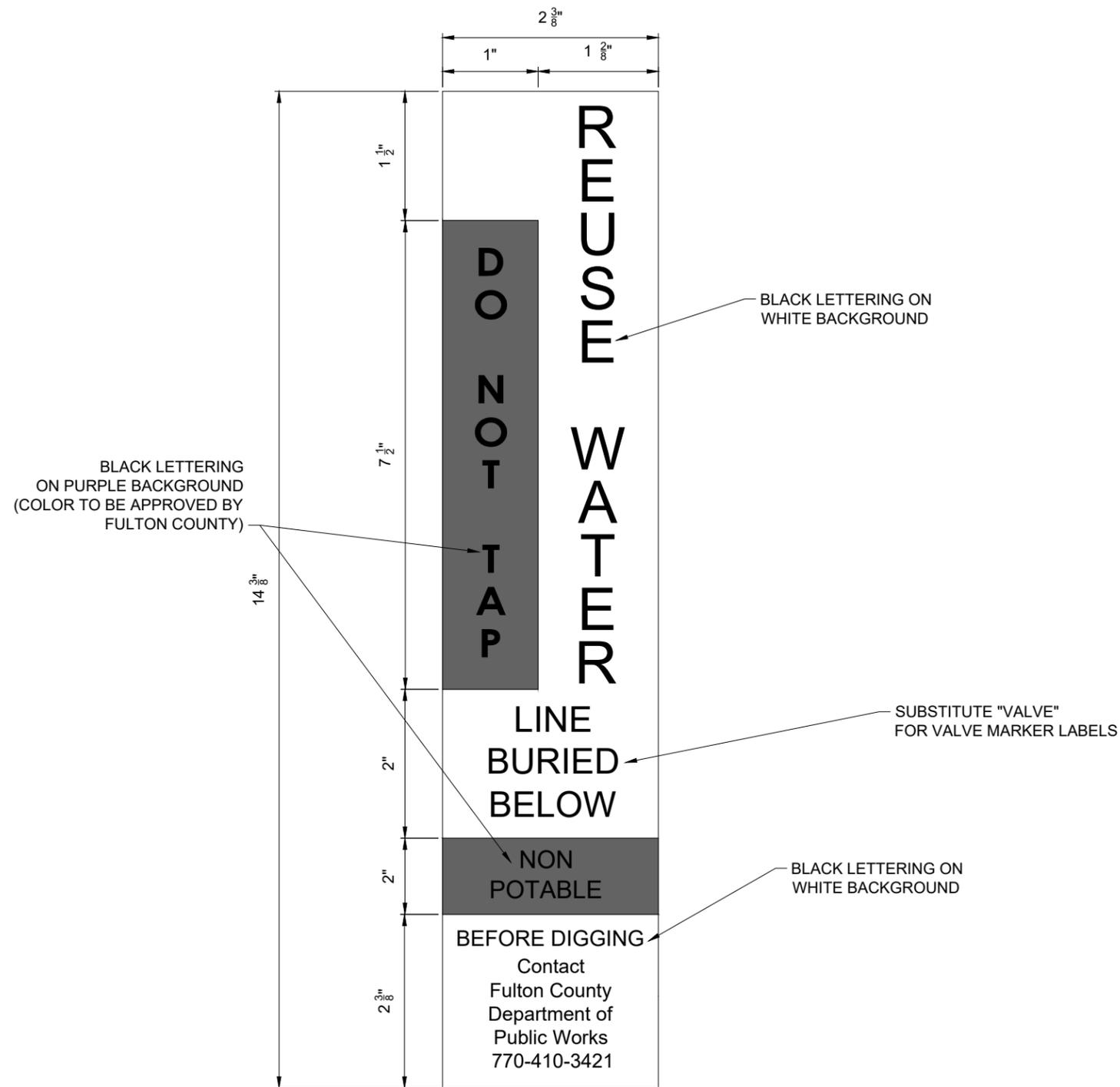
TOP SECTION

608-S.dwg December 08, 2025 10:15am

FULTON COUNTY STANDARD DETAIL 608 RECLAIMED WATER VALVE COVER MARKINGS/ VALVE BOX		DATE	REVISIONS	DATE	REVISIONS	DGS/DRN/CHKD: MB/EB/ML APPROVED: TM DATE: 01-21-2026	 FULTON COUNTY	FULTON COUNTY PUBLIC WORKS 141 PRYOR ST. ATLANTA, GA. 30303 404-612-7400 FAX: 404-224-0498	DRAWING NO.
									608

NOTES:

1. LABELS TO BE PROVIDED BY FULTON COUNTY INSPECTOR AND PROJECT MANAGER.
2. LABELS TO BE PLACED ON BOTH SIDES OF WHITE DRIVABLE MARKERS - CARSONITE #CIB-380.
3. MARKERS TO BE INSTALLED WITH EACH VALVE OR AS DIRECTED BY FULTON COUNTY.
4. LINE MARKERS TO BE INSTALLED AS DIRECTED BY FULTON COUNTY.



609-S.dwg December 08, 2025 10:15am

FULTON COUNTY STANDARD DETAIL 609
LINE/VALVE MARKER LABEL

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026

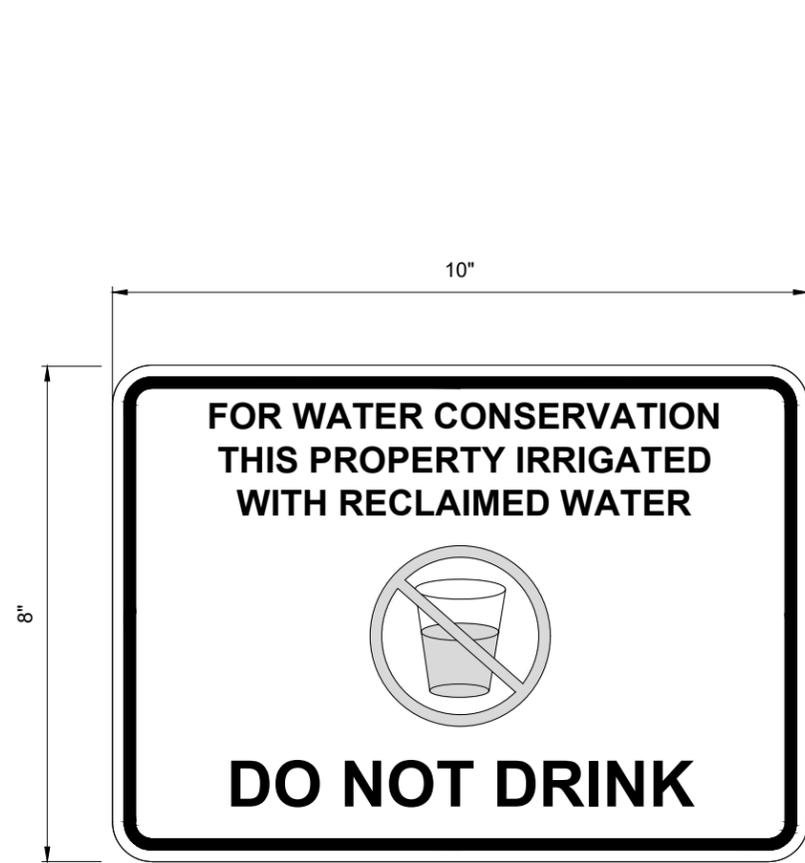


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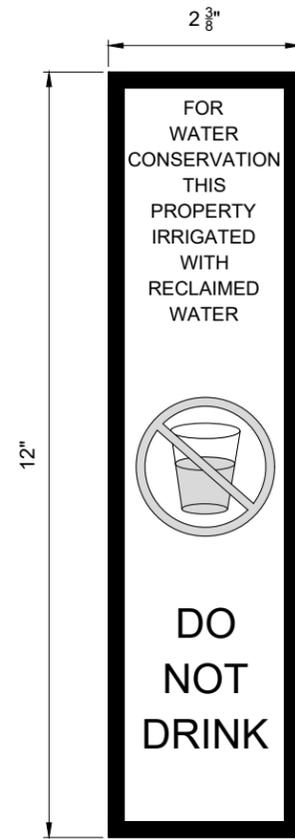
DRAWING NO.
609

NOTES

1. SIGNS ARE TO BE PLACED AT EACH USER OF RECLAIMED WATER NEAR THE RECLAIMED METER.
2. ALL SIGNS ARE WHITE WITH PURPLE LETTERING (COLOR TO BE APPROVED BY FULTON COUNTY).
3. STEEL OR PLASTIC SIGNS MAY BE AFFIXED TO OTHER POSTS OR STRUCTURES THAN THOSE PROVIDED BY FULTON COUNTY.
4. LABEL SIGNS MUST BE AFFIXED TO WHITE DRIVABLE MARKER #CIB-380 (MANUFACTURED BY CARSONITE INTERNATIONAL) AND PROTRUDE ABOVE FINISHED GRADE NO MORE THAN 36" AND NO LESS THAN 18".



STEEL OR PLASTIC SIGNS
N.T.S.



LABEL SIGNS
N.T.S.

FULTON COUNTY STANDARD DETAIL 610

CUSTOMER SIGNS

DATE	REVISIONS	DATE	REVISIONS

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 APPROVED: TM
 DATE: 01-21-2026

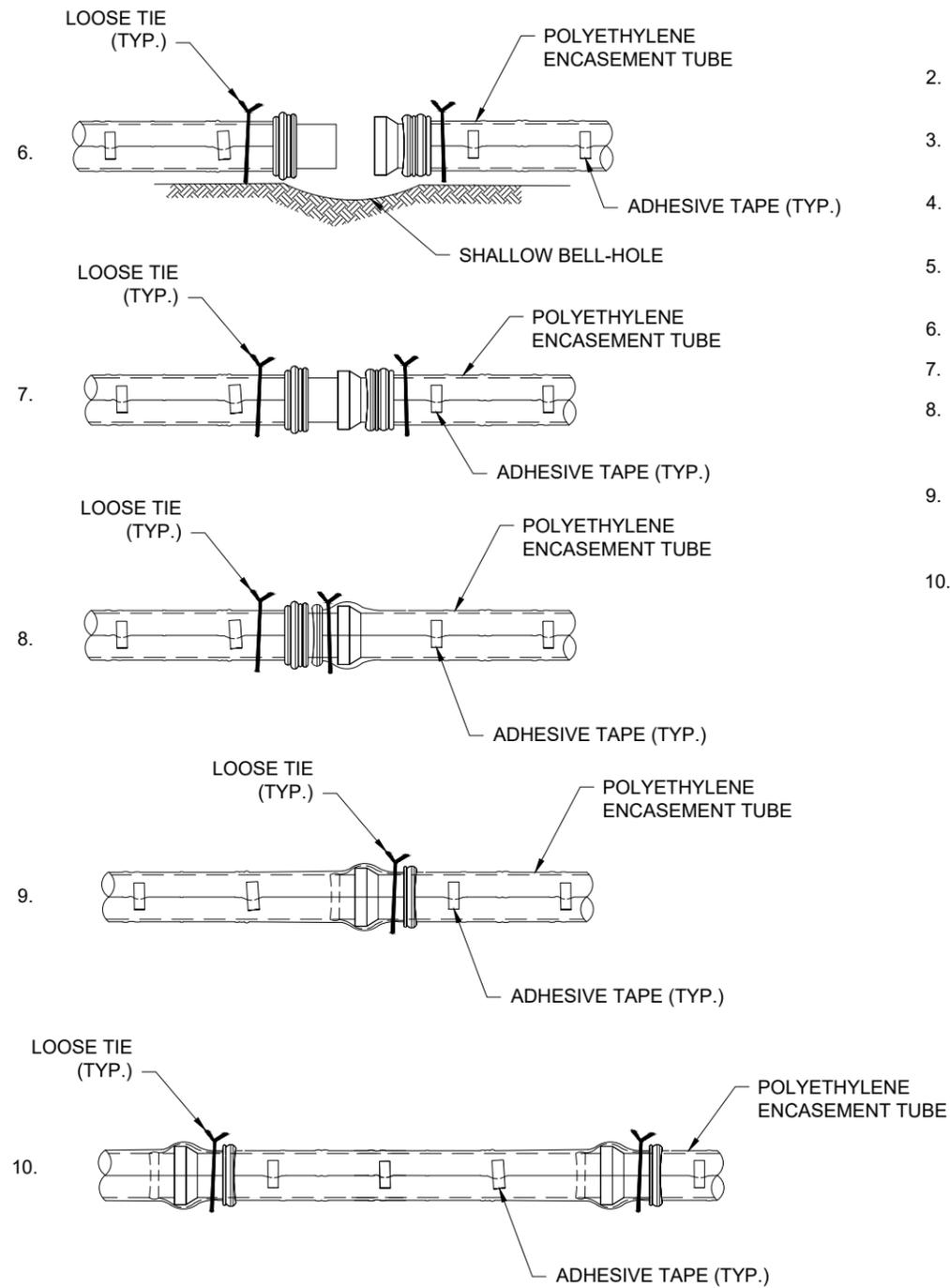
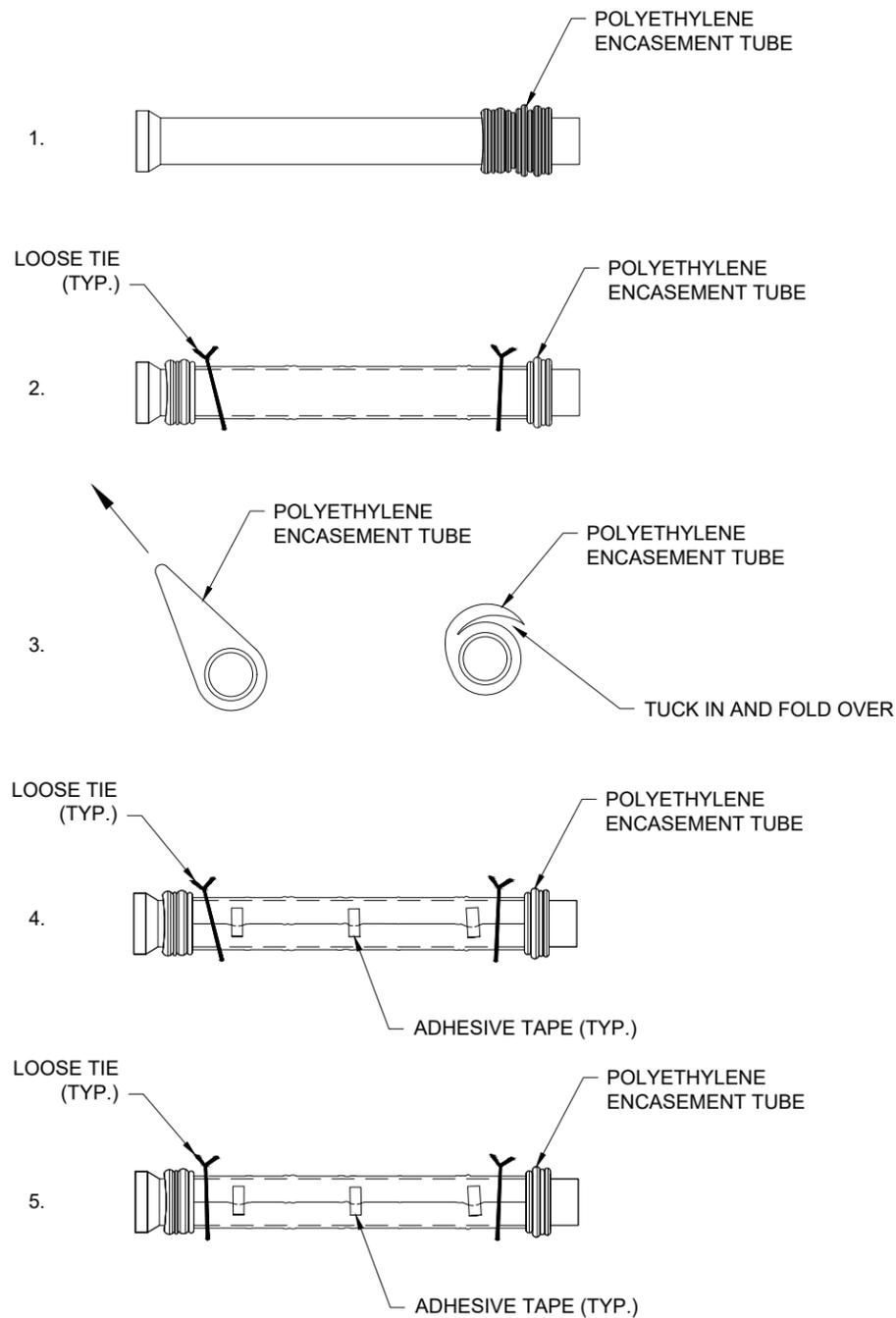


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DRAWING NO.

610

611-S.dwg December 08, 2025 10:15am



NOTES:

1. REMOVE ALL LUMPS OF CLAY, MUD, CINDERS, ETC. WHICH MAY HAVE ACCUMULATED ON THE SURFACE OF THE PIPE. A POLYETHYLENE TUBE SHOULD BE CUT SO THAT IT IS APPROXIMATELY TWO FEET LONGER THAN THE PIPE SECTION. SLIP THE TUBE ONTO THE PIPE. ALLOW APPROXIMATELY ONE FOOT OF THE TUBE TO OVERHANG EACH END OF THE PIPE.
2. PUSH BACK THE OVERHANG TUBE ENDS UNTIL THEY CLEAR THE PIPE ENDS.
3. TAKE UP THE SLACK IN THE TUBE TO MAKE A SNUG BUT NOT TIGHT FIT. FOLD EXCESS BACK OVER THE TOP OF PIPE.
4. SECURE THE FOLD WITH POLYETHYLENE COMPATIBLE ADHESIVE TAPE AT SEVERAL LOCATIONS ALONG THE PIPE BARREL.
5. DIG A SHALLOW BELL-HOLE IN THE TRENCH BOTTOM AT THE JOINT LOCATION.
6. PLACE PIPE INTO THE TRENCH.
7. ASSEMBLE THE JOINT.
8. PULL THE POLYETHYLENE TUBE END OF THE PREVIOUSLY INSTALLED PIPE OVER THE NEW PIPE AND SECURE WITH THE TIE STRAP FROM THE PRECEDING PIPE BELL.
9. OVERLAP THE SECURED TUBE END OF THE NEW PIPE SECTION. SECURE THE NEW TUBE END IN PLACE WITH THE SPIGOT END TIE STRAP.
10. REPAIR ALL RIPS, TEARS, OR OTHER TUBE DAMAGE WITH SUITABLE ADHESIVE TAPE. PIN POINT PUNCTURES NEED NOT BE REPAIRED.

FULTON COUNTY STANDARD DETAIL 611
POLYETHYLENE ENCASEMENT INSTALLATION

DATE	REVISIONS	DATE	REVISIONS

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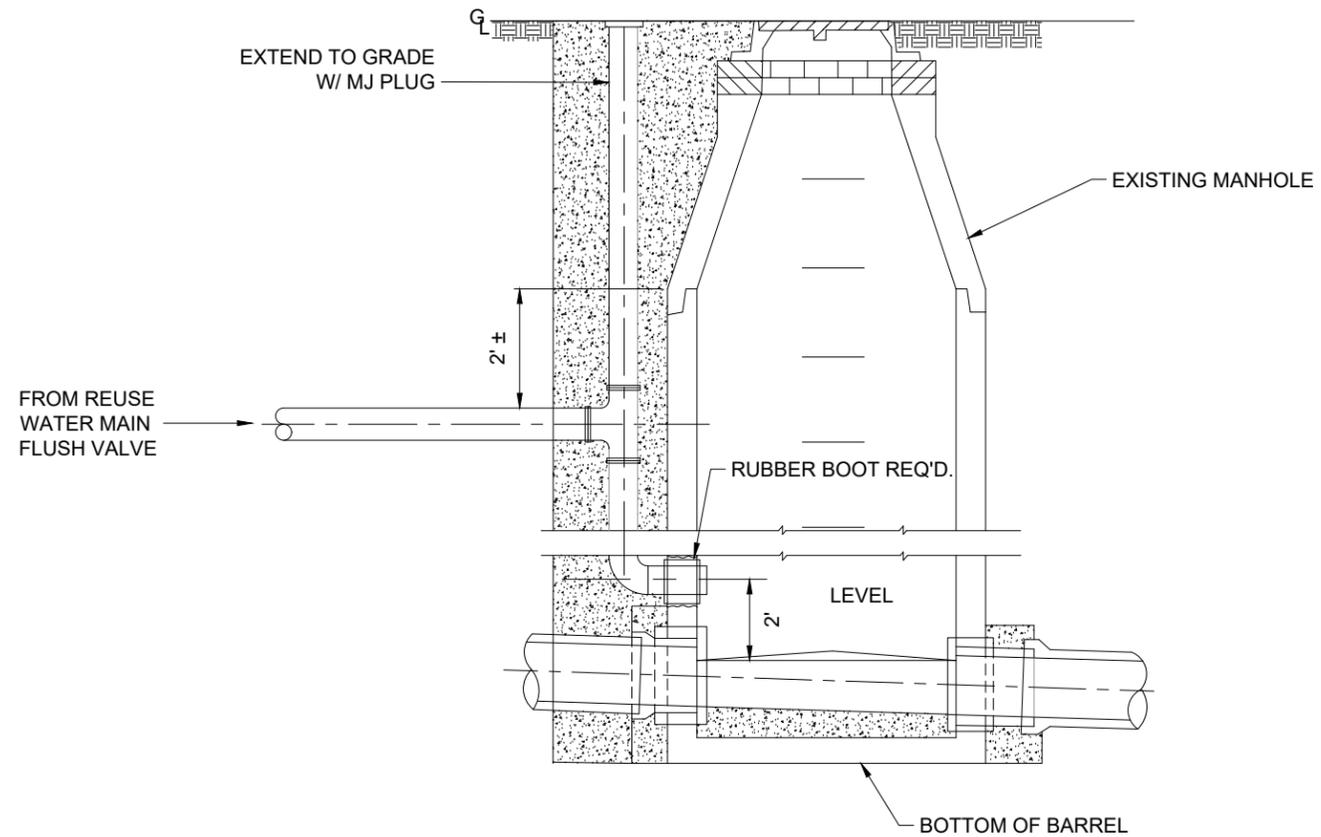


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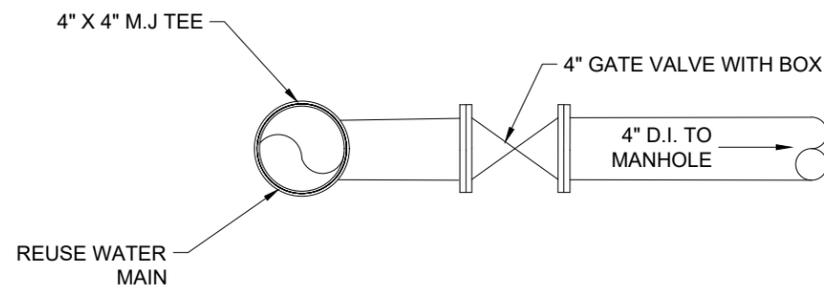
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611

612-S.dwg December 08, 2025 10:15am



MANHOLE CONNECTION DETAIL



CULC-DE-SAC
REUSE TAP AND VALVE DETAIL

FULTON COUNTY STANDARD DETAIL 612

CUL-DE-SAC FLUSH POINT DETAILS

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
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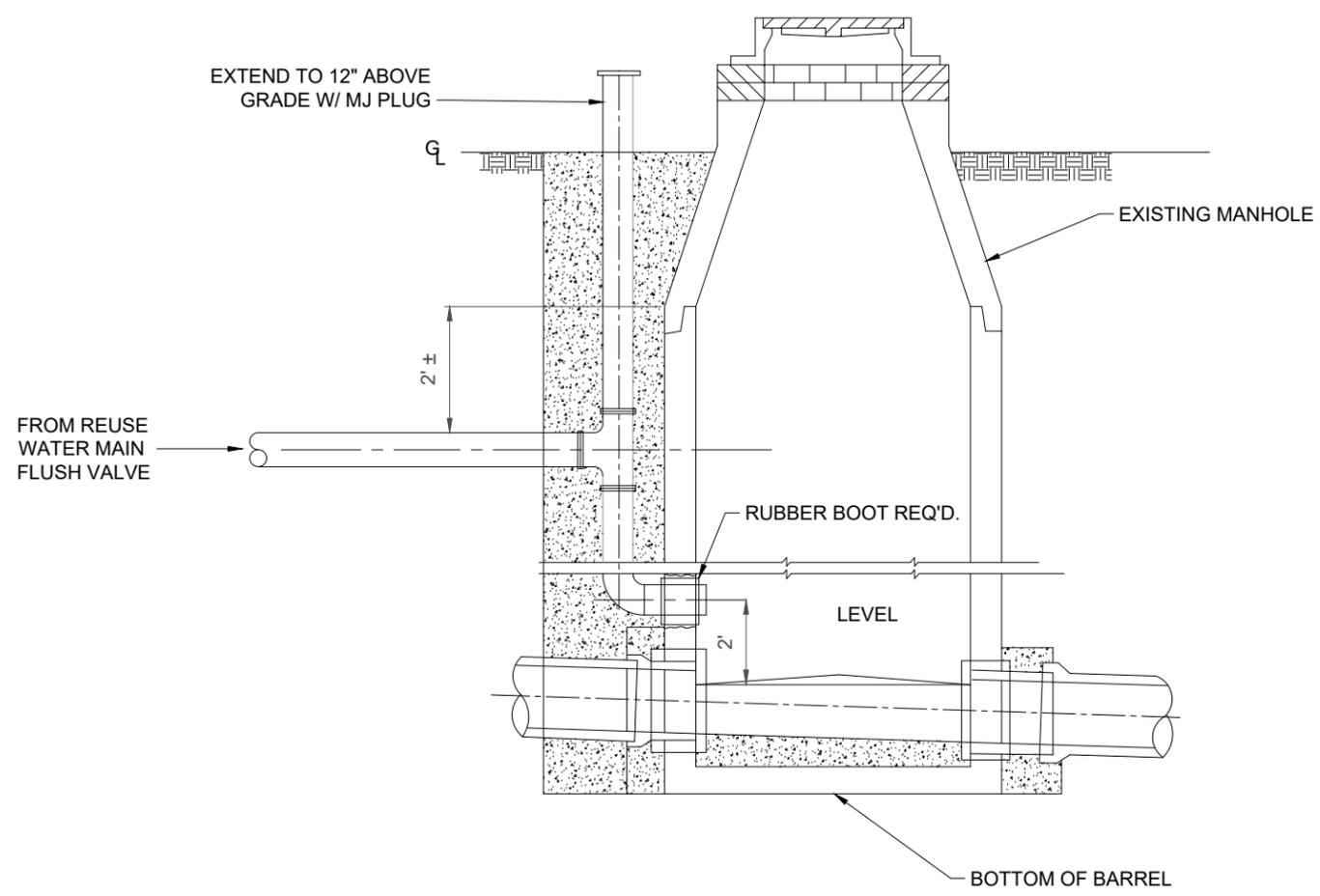


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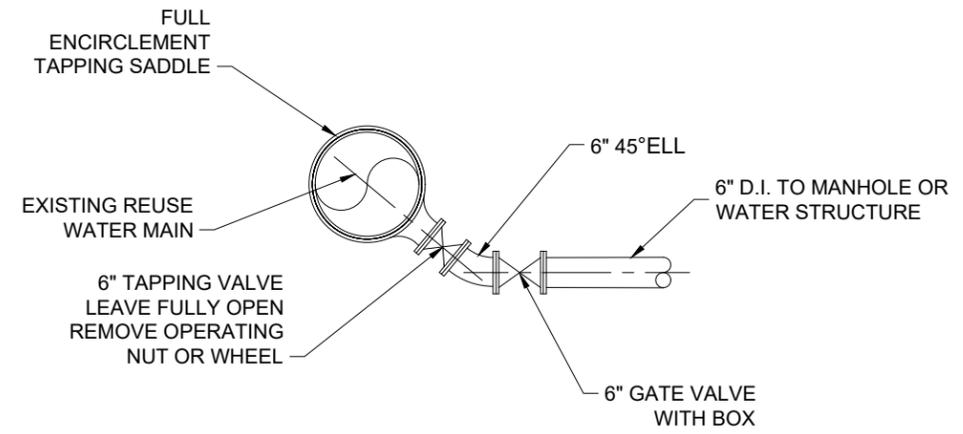
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612

613- S.dwg December 08, 2025 - 10:16am



MANHOLE CONNECTION DETAIL



REUSE TAP AND VALVE DETAIL

FULTON COUNTY STANDARD DETAIL 613
 IN-LINE FLUSH POINT DETAIL

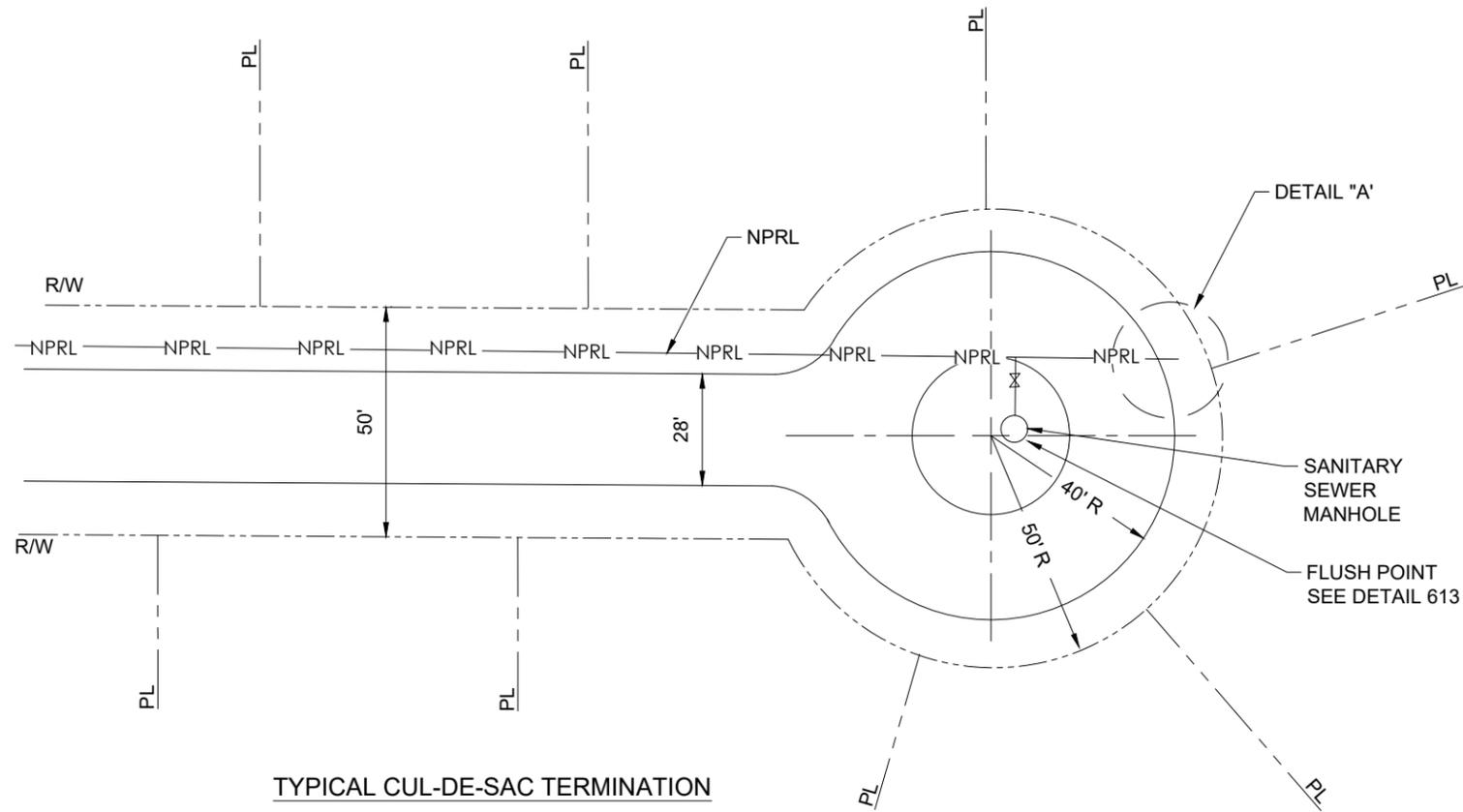
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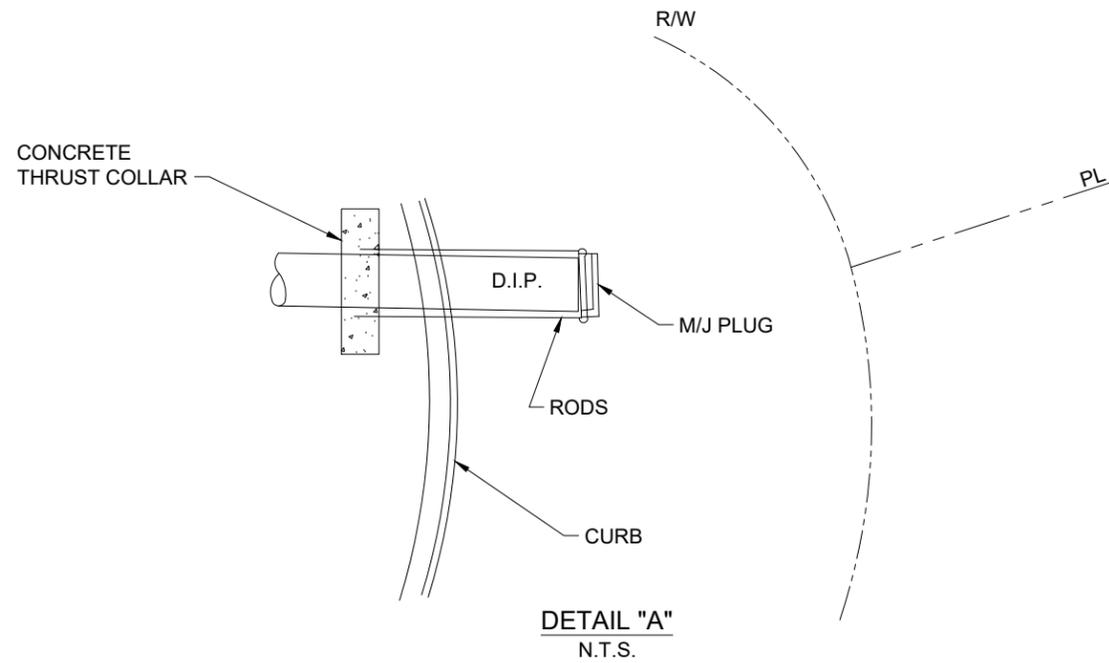


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DRAWING NO.
613



TYPICAL CUL-DE-SAC TERMINATION



DETAIL "A"
N.T.S.

FULTON COUNTY STANDARD DETAIL 614

NPRL TERMINATION CUL-DE-SAC

DATE	REVISIONS	DATE	REVISIONS

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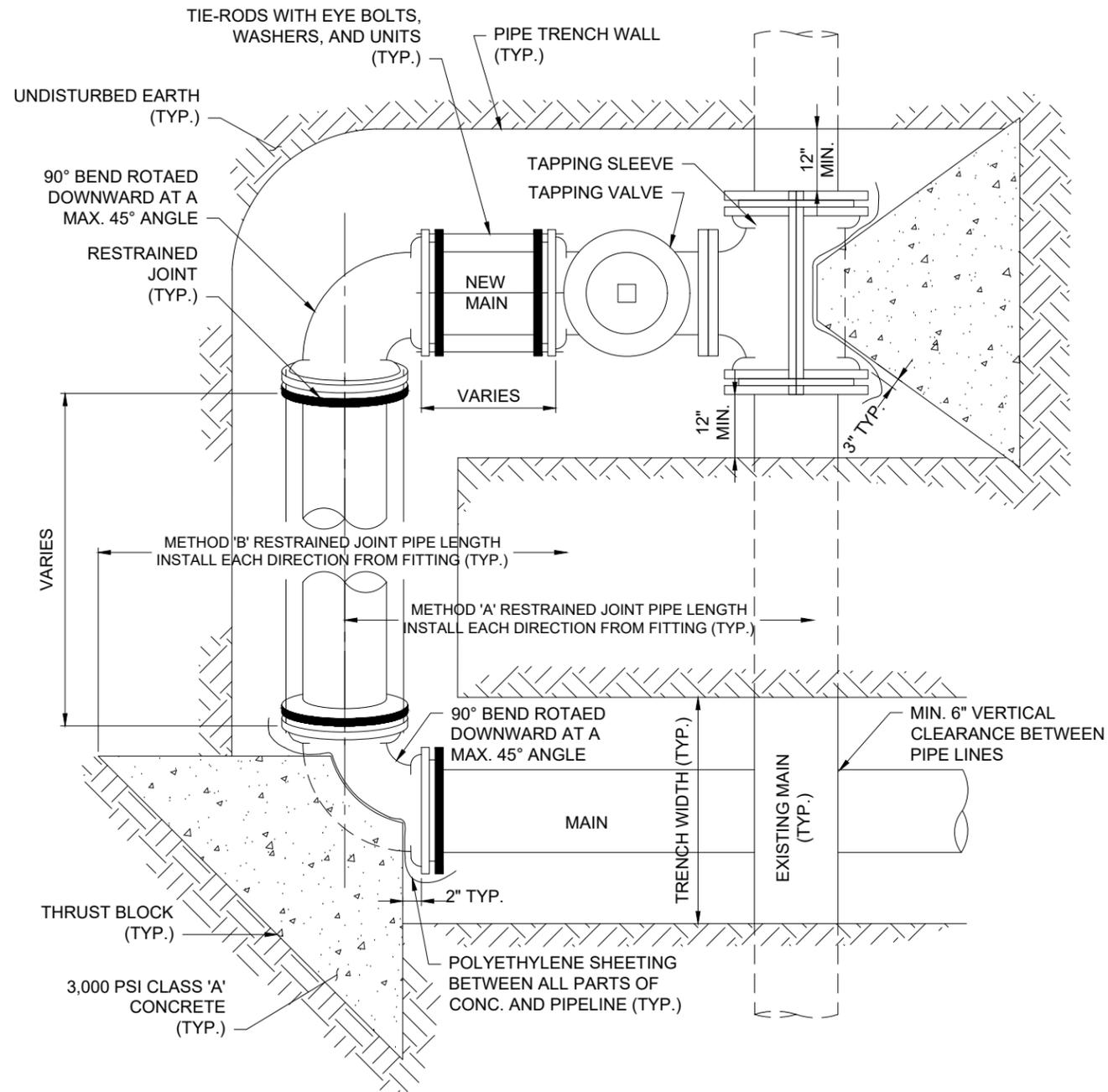
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DRAWING NO.

614



PLAN
N.T.S.

NOTES:

1. REFER TO TYPICAL HORIZONTAL THRUST BLOCK DRAWINGS FOR ADDITIONAL DETAILS.
2. REFER TO TYPICAL TAPPING SLEEVE AND VALVE INSTALLATION DRAWING FOR ADDITIONAL DETAILS.
3. RESTRAINED JOINT PIPE MAY BE USED IN LIEU OF THRUST BLOCKING AND TIE-RODS INDICATED, AS APPLICABLE.
4. RESTRAINED JOINT METHOD 'A': RESTRAINT JOINT PIPE AND FITTINGS.
5. RESTRAINED JOINT METHOD 'B': ONE (1) OF THE FOLLOWING DUAL (2) INDEPENDENT RESTRAINTS:
 - A. MEGA-LUGS PLUS THRUST BLOCKING.
 - B. MEGA-LUGS PLUS RODDING.

FULTON COUNTY STANDARD DETAIL 615
ROUND CONNECTION DETAIL

DATE	REVISIONS	DATE	REVISIONS

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DRAWING NO.

615

700-S.dwg December 10, 2025 12:54pm

DWG. NO.	DESCRIPTION
700	INDEX AND GENERAL NOTES
701	GREASE / SOLIDS / OIL INTERCEPTOR FOUR TANKS IN SERIES
702	SINGLE TANKS
703	TRASH COMPACTOR AND DUMPSTER PAD DETAILS
704	SANITARY SEWER EASEMENT
705	STANDARD STRUCTURAL PLATE PIPE CULVERT
706	DETAIL OF OPTIONAL STEEL PIER
707	SEWER SERVICE CONNECTION TO NEW AND EXISTING SANITARY SEWER
709	CLEANOUT DETAIL
709A	SANITARY SEWER CLEANOUT BOX & LID FOR RESIDENTIAL DRIVEWAYS AND SIDEWALKS
710	WATERSTOP COLLAR
711	SEWER LATERAL INSTALLATION DETAILS FOR CURBED STREETS
712	STORM DRAIN LINE CROSSING ABOVE EXISTING SANITARY SEWER PIPE
713	DOGHOUSE MANHOLE DETAIL
714	FORCE MAIN CONNECTION DETAIL AT CLEANOUT
715	TYPICAL IN-LINE FLUSHING CONNECTION - LOW PRESSURE SEWER SYSTEM
716	TYPICAL END-OF-LINE FLUSHING CONNECTION - LOW PRESSURE SEWER SYSTEM
717	TYPICAL SERVICE CROSS SECTION - LOW PRESSURE SEWER SYSTEM
718	TYPICAL SERVICE CROSS SECTION - UTILITY LOCATION - LOW PRESSURE SEWER SYSTEM
719	TYPICAL DROP CONNECTION - LOW PRESSURE SEWER SYSTEM IN MANHOLE

NOTES:

1. HDPE AND PVC PIPES TO BE USED WITH WASTEWATER APPLICATIONS ONLY.
2. DUCTILE IRON PIPES MAY BE USED FOR WASTEWATER APPLICATIONS ONLY WITH SPECIFIC APPROVAL BY THE FCPW.
3. MINIMUM THICKNESS FOR HDPE PIPES SHALL BE DR 17.
4. FOR SEWER INSTALLATIONS WITH NO LIVE LOAD AND NOT ALONG STREAM BANKS, THE STANDARD PIPE SHALL BE DR 26 PVC OR HDPE DR 17 IN DUCTILE IRON PIPE SIZE (DIPS) FOR PIPE SIZES 8-INCH THROUGH 48-INCH WITH MAXIMUM BURY DEPTH OF 20 FEET
5. FOR SEWER INSTALLATIONS WITH HS20/25 LIVE LOADS, OR WITH BURY DEPTH GREATER THAN 20 FEET AND NOT ALONG STREAM BANKS, THE STANDARD PIPE SHALL BE DR 18 PVC OR HDPE DR17 IN DUCTILE IRON PIPE SIZE (DIPS) FOR PIPE SIZES 8-INCH THROUGH 30-INCH.
6. FOR FORCE MAINS, REGARDLESS OF BURY DEPTH, LIVE LOAD REQUIREMENTS AND NOT ALONG RIVERBANKS, THE STANDARD PIPE SHALL BE HDPE DR 11 IN DUCTILE IRON PIPE SIZE (DIPS) FOR PIPE SIZES 8-INCH THROUGH 30-INCH.
7. FOR SEWER INSTALLATIONS WITH NO LIVE LOADS AND LOCATED ALONG STREAM BANKS, THE STANDARD PIPE SHALL BE DR 17 HDPE IN DUCTILE IRON PIPE SIZE (DIPS) FOR PIPE SIZES 8-INCH THROUGH 48-INCH AND MAXIMUM BURY DEPTH OF 20 FEET.
8. ALL SEWER LINES, WATER LINES, REUSE LINES, AND FORCE MAIN LINES SHALL HAVE 3M™ EMS WARNING TAPE 7900 SERIES BURIED 4-FEET BELOW GROUND LEVEL INSTALLED ABOUT THE PIPE OR MINIMUM OF 1-FOOT ABOVE TOP OF PIPE. THIS SHALL INCLUDE SEWER LATERALS AND WATER SERVICE LINES.
9. ALL HDPE AND PVC PIPE SHALL BE IN DUCTILE IRON PIPE SIZE (DIPS)

FULTON COUNTY STANDARD DETAIL 700
INDEX AND GENERAL NOTES

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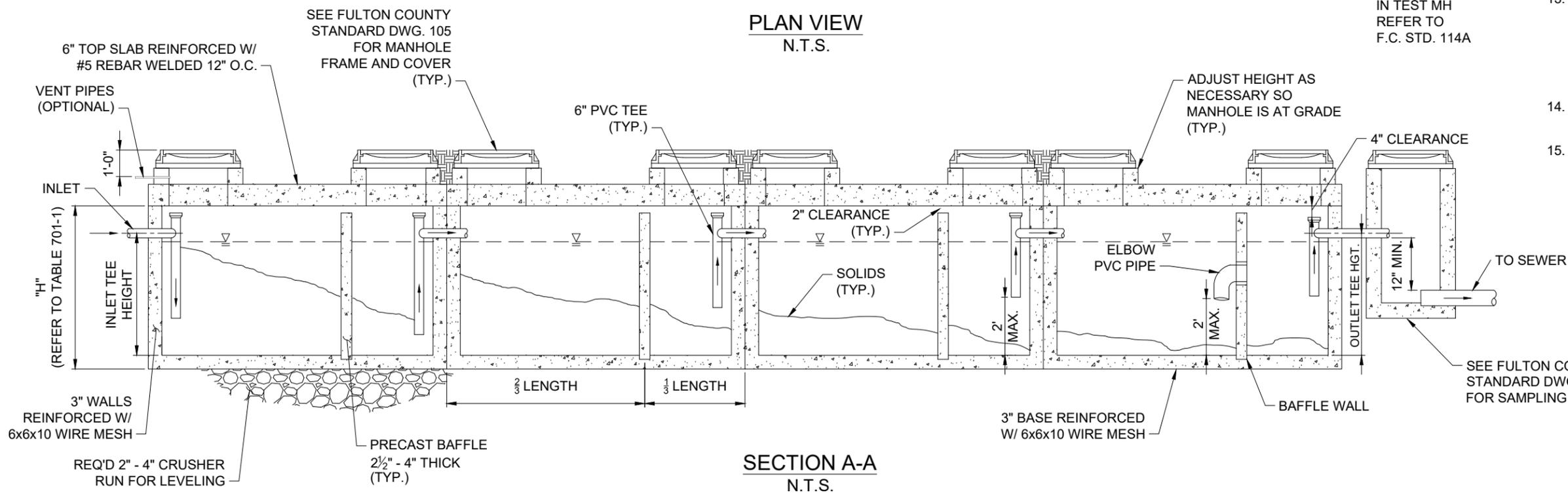
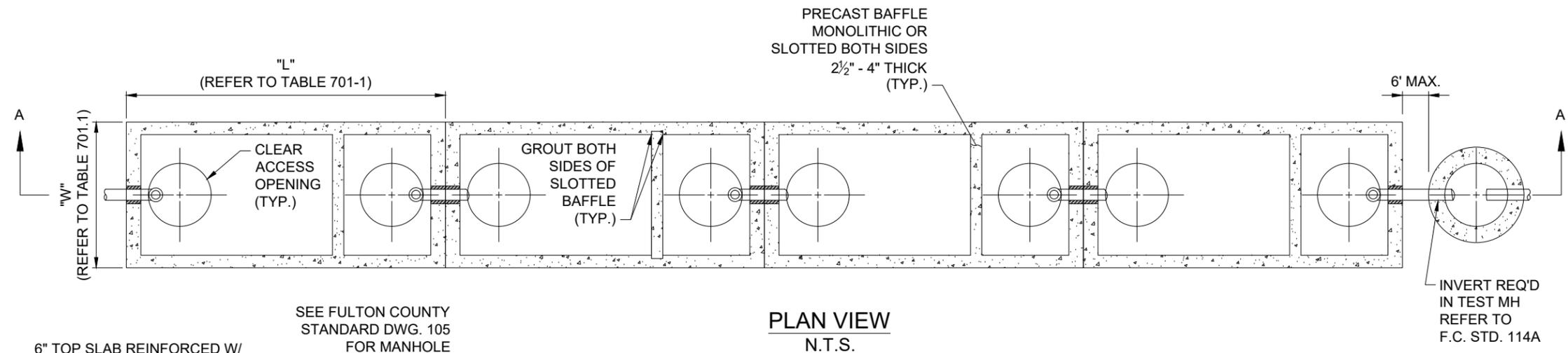
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DRAWING NO.
700

TABLE 701-1					
GALLON CAPACITY	*OUTSIDE DIMENSIONS			INLET TEE HGT.	OUTLET TEE HGT.
	LENGTH, "L"	WIDTH, "W"	HEIGHT, "H"		
1000	8'-6"	5'-8"	4'-11"	4'-4"	4'-2"
1500	11'-1 1/2"	5'-7"	5'-6"	4'-11"	4'-8"
2000	13'-0"	7'-0"	5'-6"	4'-9"	4'-6"
2500	13'-0"	7'-0"	6'-6"	5'-9"	5'-6"

*DIMENSIONS OF PREFAB CONCRETE TANKS MAY VARY BASED ON MANUFACTURER, HOWEVER THE GALLON CAPACITY MUST BE EQUIVALENT TO THE TANK SIZE SPECIFIED FOR INSTALLATION.

- NOTES:
- ANY ALTERNATIVE PRETREATMENT SYSTEMS SHALL BE APPROVED BY WATER AND POLLUTION CONTROL SYSTEM PRIOR TO INSTALLATION
 - USE CONCRETE PREFAB TANKS.
 - NO INTERCEPTOR SHALL BE LESS THAN 1,000 GALLONS WHERE SEATING IS LESS THAN 50 AND NO SINGLE CHAMBER INTERCEPTOR SHALL BE GREATER THAN 3000 GALLONS.
 - FOR RESTAURANTS USE MINIMUM ONE 1515 GALLON TANK PER 100 SEATS.
 - MULTI-CHAMBERED TANKS SHALL BE CONNECTED BY 6" HDPE OR PVC PIPE.
 - SAMPLING MANHOLE SHALL BE INSTALLED UNLESS EXCLUDED BY W&PC.
 - ALL MANHOLES MUST ADJUST TO GRADE.
 - DISTANCE BETWEEN MULTIPLE TANKS NO GREATER THAN 12".
 - TEST MANHOLE NO GREATER THAN 6 FEET AFTER PRETREATMENT SYSTEM.
 - MULTIPLE TANKS MUST BE PLACED IN TANDEM (SINGLE LINE).
 - ALL PRETREATMENT SYSTEMS ARE REQUIRED TO BE INSPECTED PRIOR TO BACKFILLING CONTACT PUBLIC WORKS COMMERCIAL TREATMENT.
 - FINAL INSPECTIONS ARE REQUIRED ON ALL PRETREATMENT SYSTEMS PRIOR TO USE.
 - CONCRETE MINIMUM STRENGTH 4000 PSI AT 28 DAYS. STEEL REINFORCEMENT ASTM-A-515.75, GRADE 50, ONE INCH COVER MINIMUM DESIGN LOADING AASHO HS20-44. CONSTRUCTION JOINT SEALED WITH ONE INCH DIA. BUTYL RUBBER OR EQUIVALENT.
 - SEE STANDARD DWG 702 FOR BAFFLE WALL DETAILS.
 - PIPES SHALL BE DR26 PVC.



FULTON COUNTY STANDARD DETAIL 701
 GREASE/SOLIDS/OIL INTERCEPTOR
 FOUR TANKS IN SERIES

DATE	REVISIONS	DATE	REVISIONS

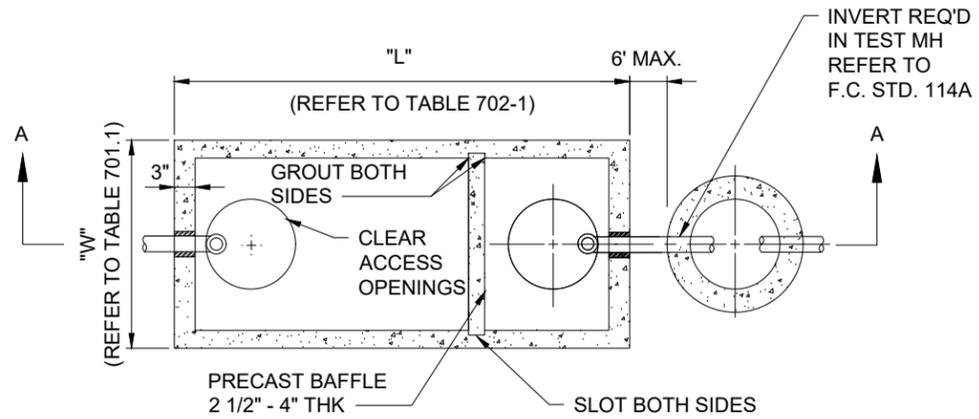
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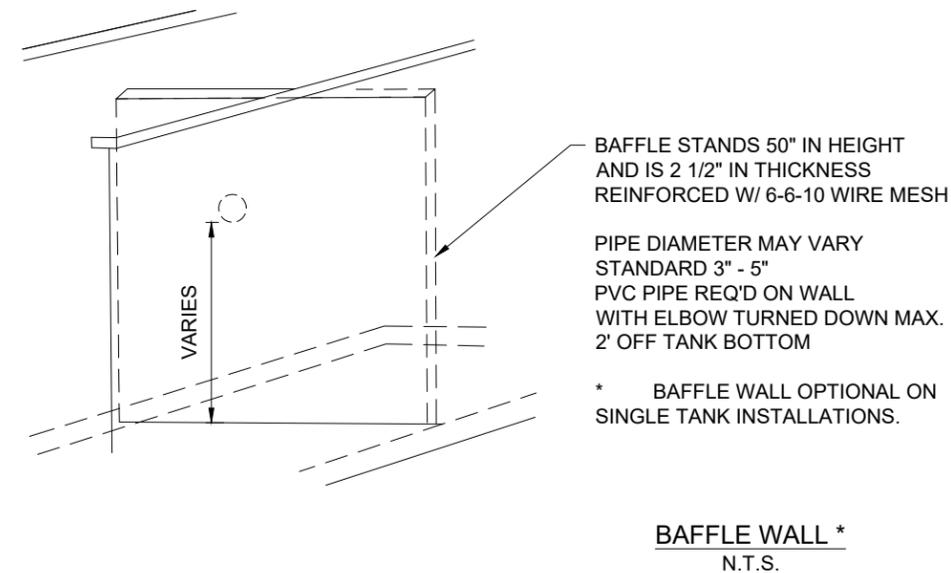
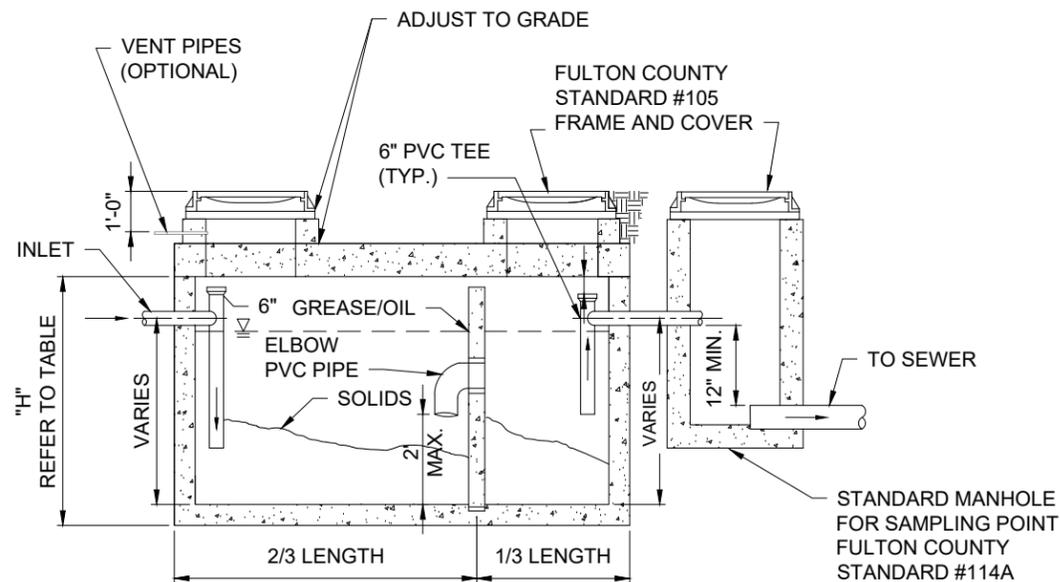
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701

701-S.dwg December 08, 2025 9:40am



GALLON CAPACITY	*OUTSIDE DIMENSIONS			INLET TEE HGT.	OUTLET TEE HGT.
	LENGTH,	WIDTH	HEIGHT	VARIES BASED ON TANK SIZE	
3000	15'-7"	9'-7"	8'- 6.5"	5' - 2"	5'-0"
1500	11'-0"	6'-0"	4'-7"	3'-10"	4'-0"
1000	8'-6"	5'-3"	4'-6"	3'-10"	4'-0"
750	7'-0"	4'-8"	4'-6"	3'-10"	4'-0"

*DIMENSIONS OF PREFAB CONCRETE TANKS MAY VARY BASED ON MANUFACTURER, HOWEVER THE GALLON CAPACITY MUST BE EQUIVALENT TO THE TANK SIZE SPECIFIED FOR INSTALLATION.



FULTON COUNTY STANDARD DETAIL 702
SINGLE TANKS

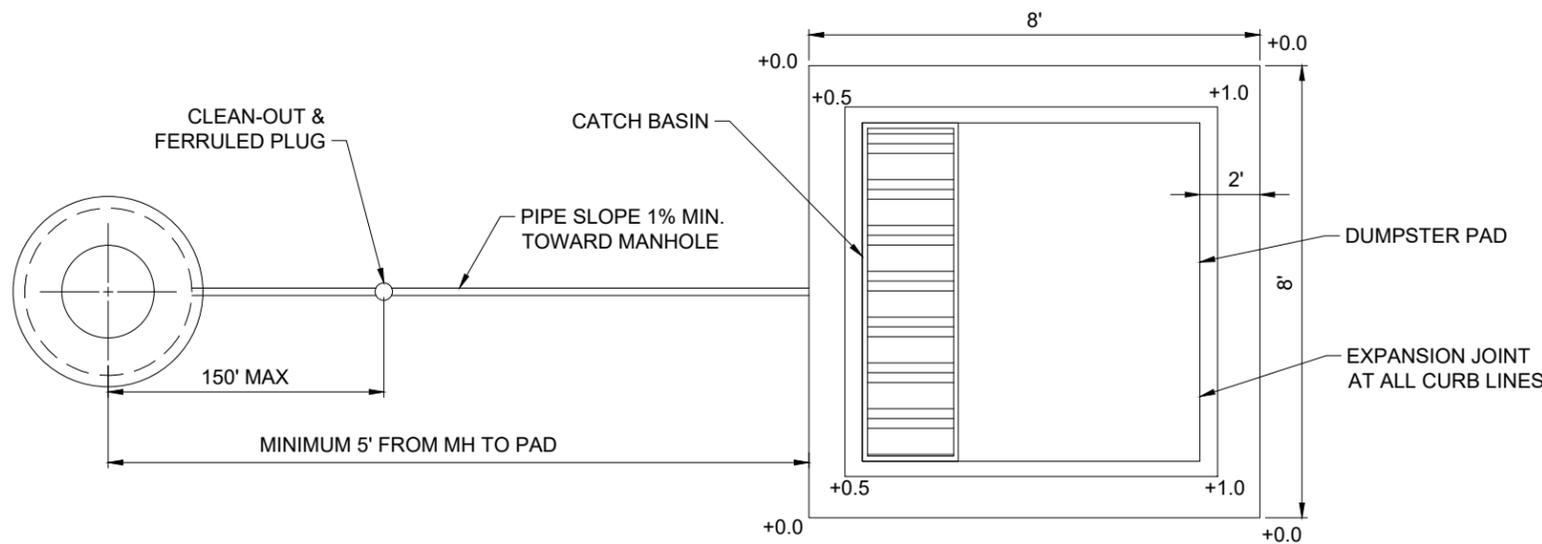
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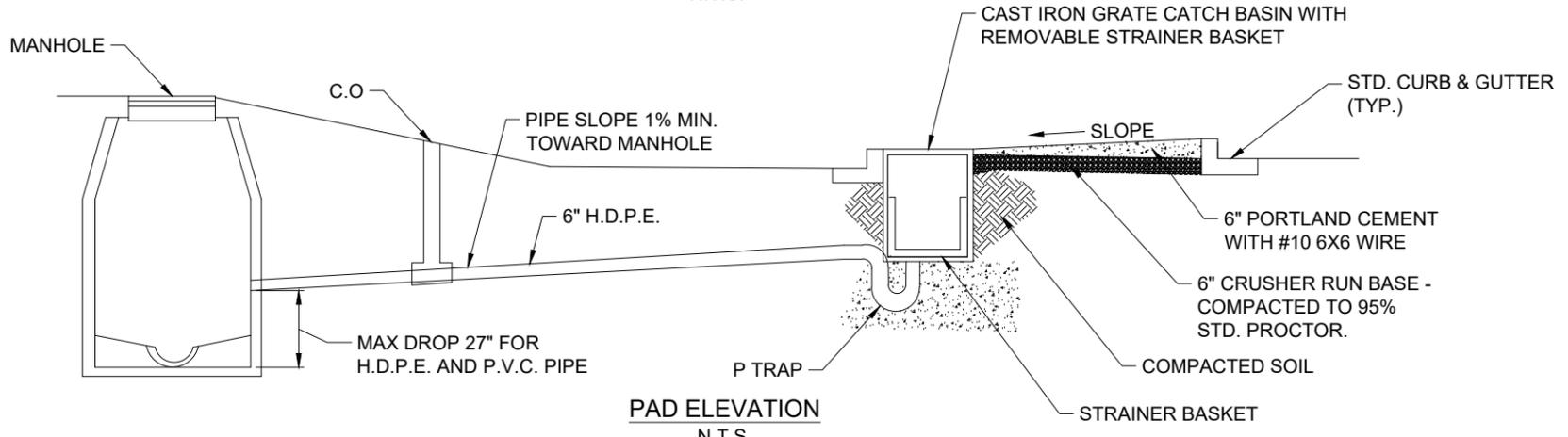


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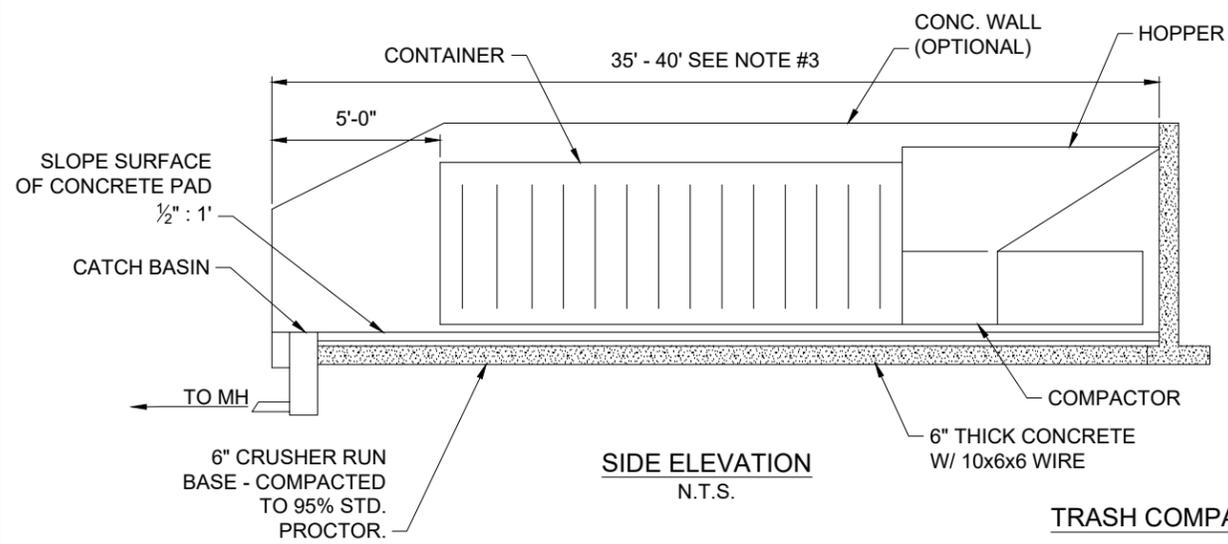
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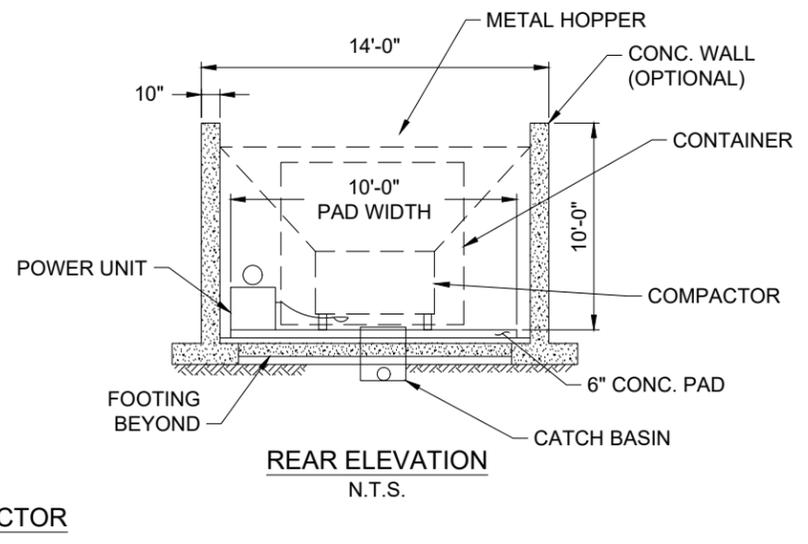
PLAN VIEW
N.T.S.



PAD ELEVATION
N.T.S.



SIDE ELEVATION
N.T.S.



REAR ELEVATION
N.T.S.

TRASH COMPACTOR

NOTE:

1. WATER BIBB REQUIRED WITHIN 50' OF PAD FOR CLEANSING.
2. APPROVAL FROM HEALTH DEPT. REQUIRED.
3. COMPACTOR PAD TO BE 10' - 0" WIDE AND A LENGTH OF 5' - 0" GREATER THAN THE COMBINED LENGTH OF THE COMPACTOR AND CONTAINER.
4. RUBBER BOOT REQUIRED FOR P.V.C. PIPE, (MANHOLE CONNECTOR) WATER BIBB TO HAVE BACK FLOW PREVENTER.
5. DO NOT CONNECT DRAIN TO GREASE TRAP. SURFACE WATER RUNOFF MUST BE SLOPED AWAY FROM PAD.
6. DO NOT ALLOW STORM WATER RUNOFF ON PAD.
7. 4.5 FOOT CHAIN LINK FENCE WITH 3-4 FOOT ACCESS GATE IS REQUIRED AROUND ALL COMPACTORS AND HOPPERS.
8. UNLESS OTHERWISE APPROVED, TRASH COMPACTOR AND DUMPSTER DRAIN TO HAVE A DEDICATED LINE TO MANHOLE.
9. ENCLOSURE IS REQUIRED. MATERIAL BASED ON PLAN DESIGN.
10. DIP ONLY ALLOW AS AUTHORIZED BY FULTON COUNTY FOR LATERAL ON A CASE BY CASE BASIS.

FULTON COUNTY STANDARD DETAIL 703
TRASH COMPACTOR AND DUMPSTER PAD
DETAILS

DATE	REVISIONS	DATE	REVISIONS

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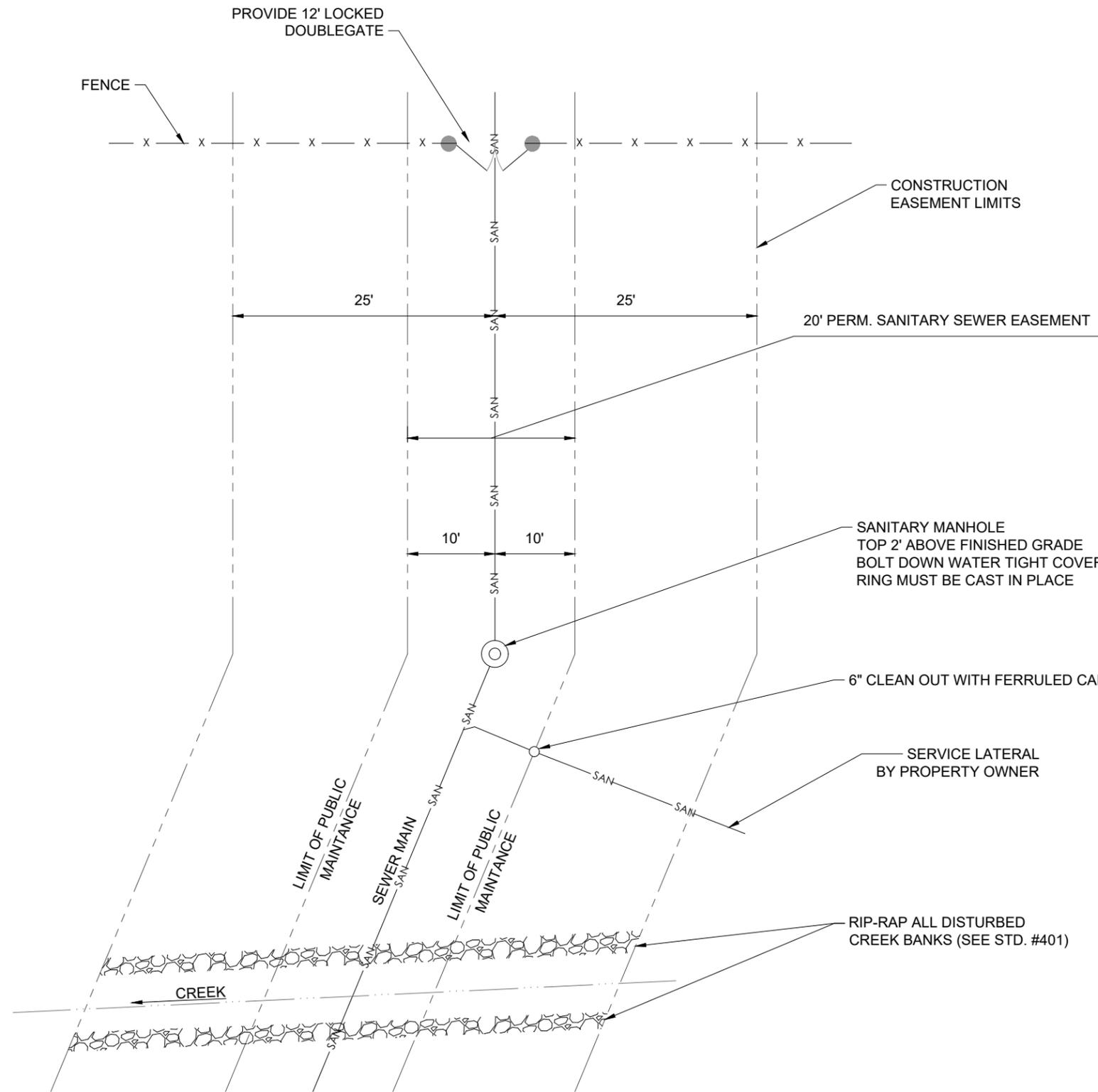
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703

703-S.dwg December 08, 2025 11:44am

NOTES:

1. NO POOLS STRUCTURES DECKS, BRIDGES OR PATIOS MAY BE PLACED IN THE PERM.EASEMENT.
2. CLEAR ALL TREES IN PERM EASEMENT AND MAINTAIN CLEARANCE.
3. RESEED, FERTILIZE AND MULCH ALL DISTURBED AREAS PER EROSION CONTROL STANDARDS, MAINTAIN 1% SLOPE DRAINAGE.
4. NO PERMANENT STRUCTURES INSIDE PERMANENT EASEMENT.
5. NO BURY PITS ALLOWED IN EASEMENT.
6. GATES REQUIRED FOR FENCES CROSSING SEWER LINES AT ALL SEWER EASEMENTS.



FULTON COUNTY STANDARD DETAIL 704
SANITARY SEWER EASEMENT

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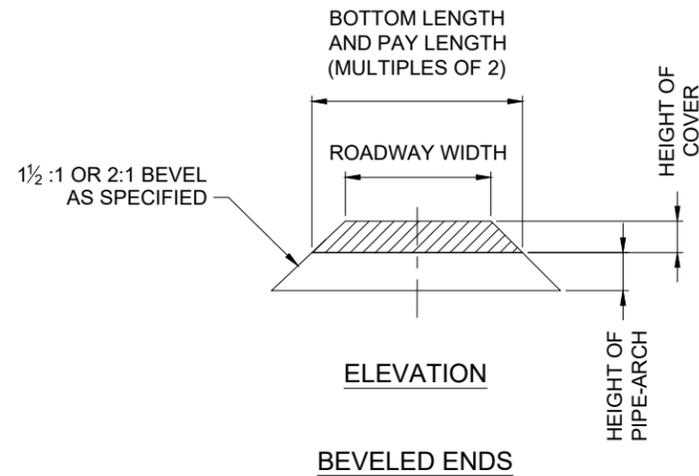
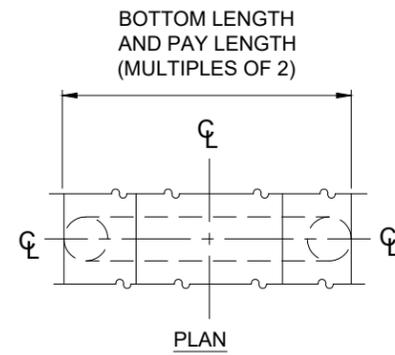
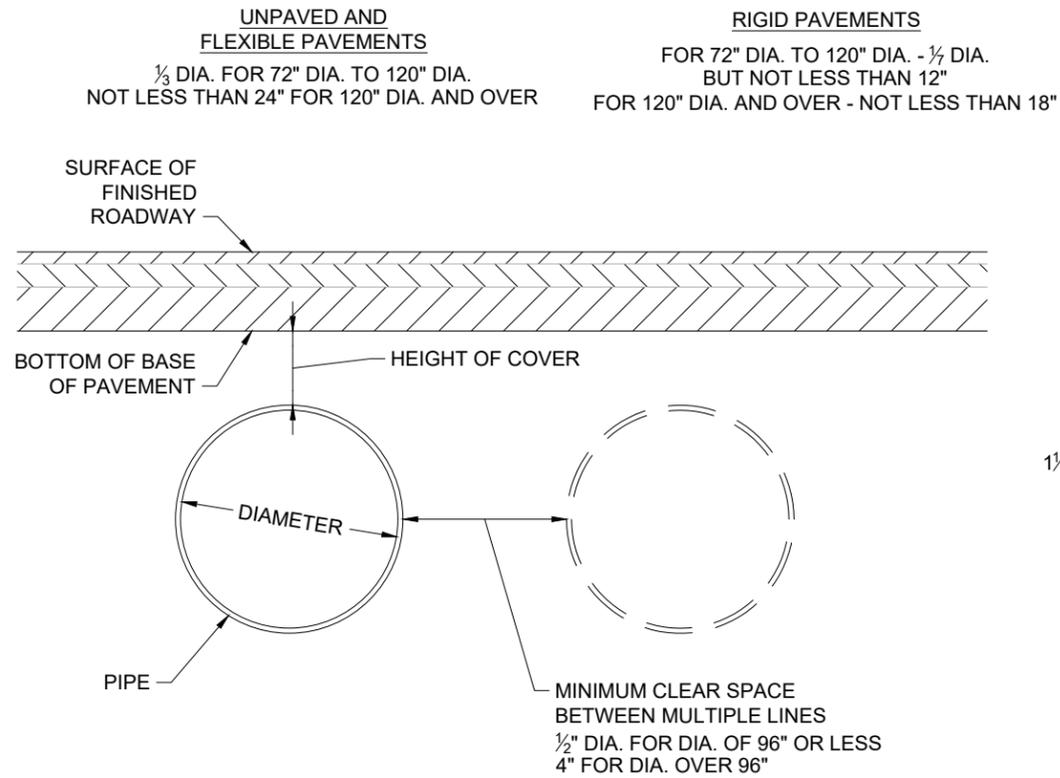
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DRAWING NO.
704

MINIMUM HEIGHT OF COVER



NOTES:

1. SPECIFICATIONS - GEORGIA STANDARD
2. DESIGN DATA - H-20 LIVE LOAD
3. GAUGES SHOWN ARE MINIMAL STRUCTURAL REQUIREMENTS FOR USE WITH ADEQUATE BACKFILL.
4. FOR END FINISH, SHAPE OR CONDITION OTHER THAN SHOWN, SEE SPECIAL DESIGN.
5. GAUGES SHOWN IN TABLE 705-1 ARE FOR STRUCTURAL PLATE PIPE ASSEMBLED WITH 4 BOLTS PER FOOT OF LONGITUDINAL SEAM AND VERTICALLY ELONGATED 5% BY SHOP FORMING, EXCEPT AS NOTED IN NOTE 6.
6. BEYOND HEIGHTS OF COVER FOR 4 BOLTS AND TO HEIGHTS OF COVER SHOWN FOR 6 BOLTS, NO.1 GAUGE STRUCTURAL PLATE PIPE WITH 6 BOLTS PER FOOT OF LONGITUDINAL SEAM AND VERTICALLY ELONGATED 3% BY SHOP FORMING SHALL BE USED.
7. ONLY R.C.P. ALLOWED UNDER COUNTY ROADS.

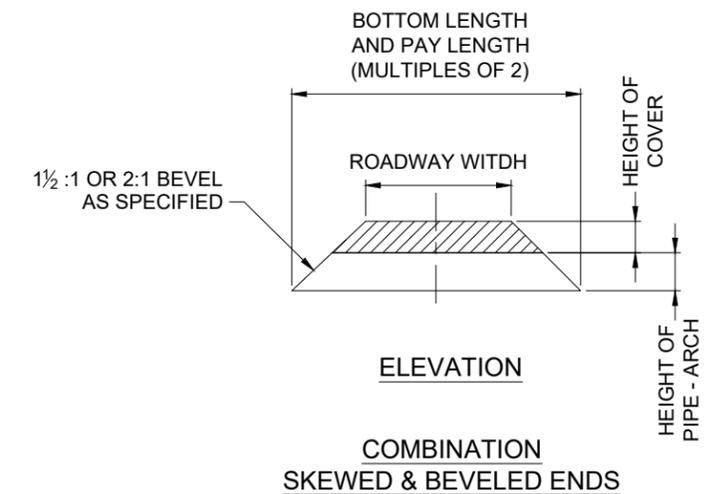
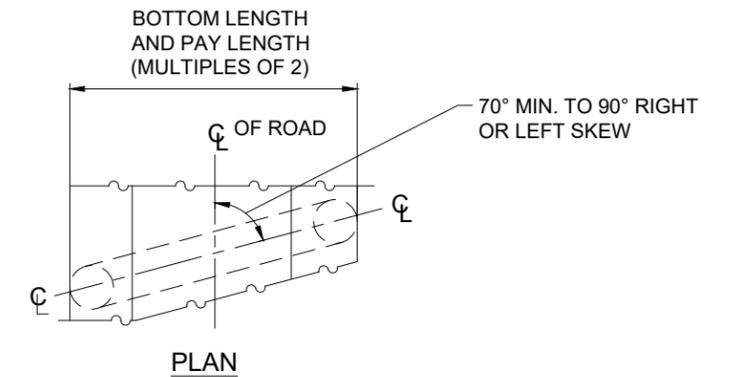


TABLE 705 - 1

AREA SQ.FT.	DIA. INCHES	HEIGHT OF COVER (FEET)															1 GAUGE 6 BOLTS			
		1 - 5	6 - 10	11 - 15	16 - 20	21 - 25	26 - 30	31 - 35	36 - 40	41 - 45	46 - 50	51 - 55	56 - 60	61 - 70	71 - 80	81 - 90		91 - 100		
28	72									12	12	10	10	8	8	7	5	3	1	165'
33	78									12	12	10	10	8	8	8	5	3	1	150'
38	84					12	12	12	10	10	8	8	7	5	3	1				140'
44	90	12	12	12	12	12	12	10	10	8	8	7	5	3	1					130'
50	96	12	12	12	12	12	10	10	10	8	7	7	5	3	1					125'
57	102	12	12	12	12	10	10	10	8	8	7	5	5	1						115'
64	108	12	12	12	10	10	10	10	8	8	7	5	5	3	1					110'
71	114	10	12	10	10	10	10	10	8	8	7	5	5	3	1					105'
79	120	10	12	10	10	10	10	10	8	7	5	5	3	1						100'
87	126	10	12	10	10	10	10	10	8	7	5	3	3	1						95'
95	132	10	10	10	10	10	8	8	7	5	3	1	1							90'
104	138	10	10	10	10	10	8	7	5	3	3	1								85'
113	144	10	10	10	10	8	8	7	5	3	1	1								80'
123	150	10	10	10	8	8	8	7	5	3	1									80'
133	156	10	10	10	8	8	8	5	3	1	1									75'
145	162	10	10	10	8	8	7	5	3	1										70'
154	168	10	10	10	8	8	7	5	3	1										70'
165	174	8	10	8	8	8	7	5	3	1										65'
177	180	8	10	8	8	8	5	3	1											65'

MINIMUM THICKNESS U.S. STD. GAUGE - 4 BOLTS

FOR STRUCTURES IN THIS ZONE, SEE NOTE 6.

705-S.dwg December 08, 2025 9:40am

FULTON COUNTY STANDARD DETAIL 705
 STANDARD STRUCTURAL PLATE PIPE CULVERT

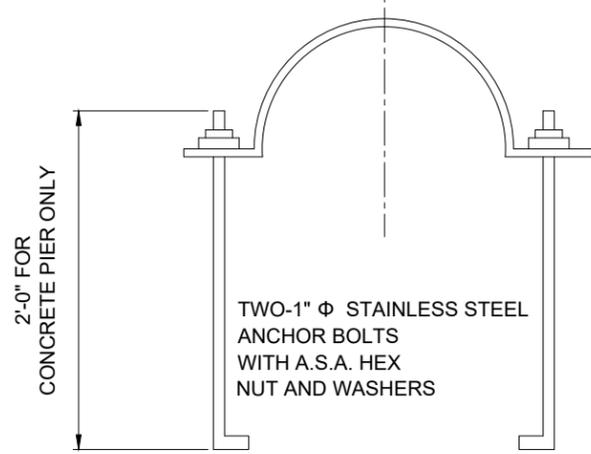
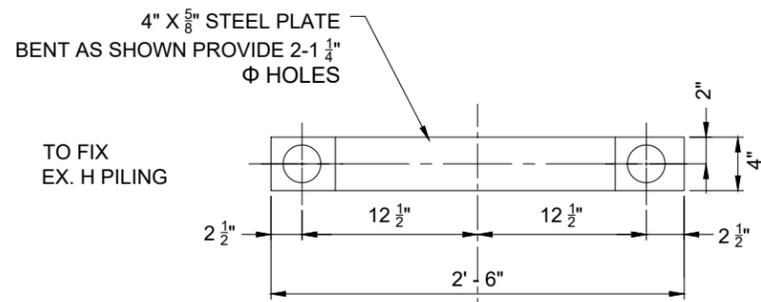
DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
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 DATE: 01-21-2026

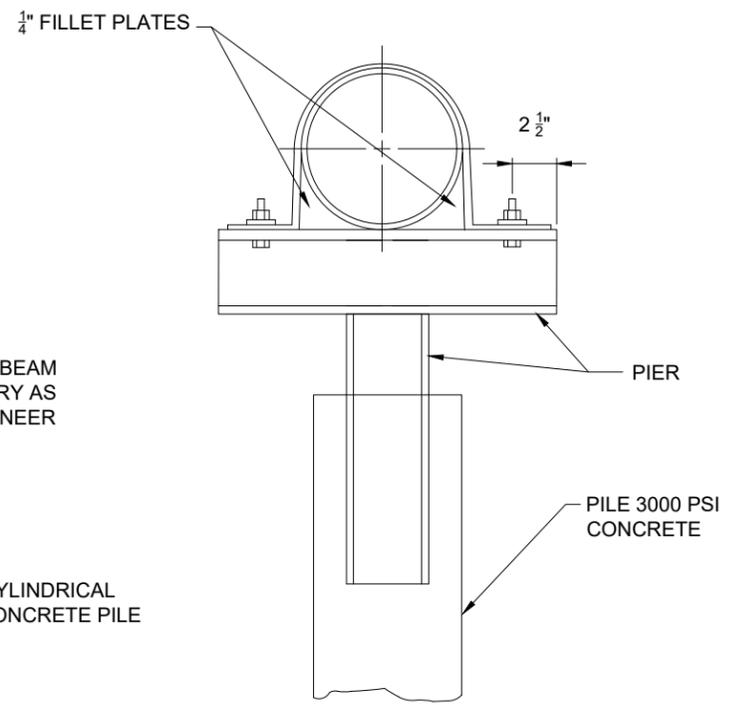
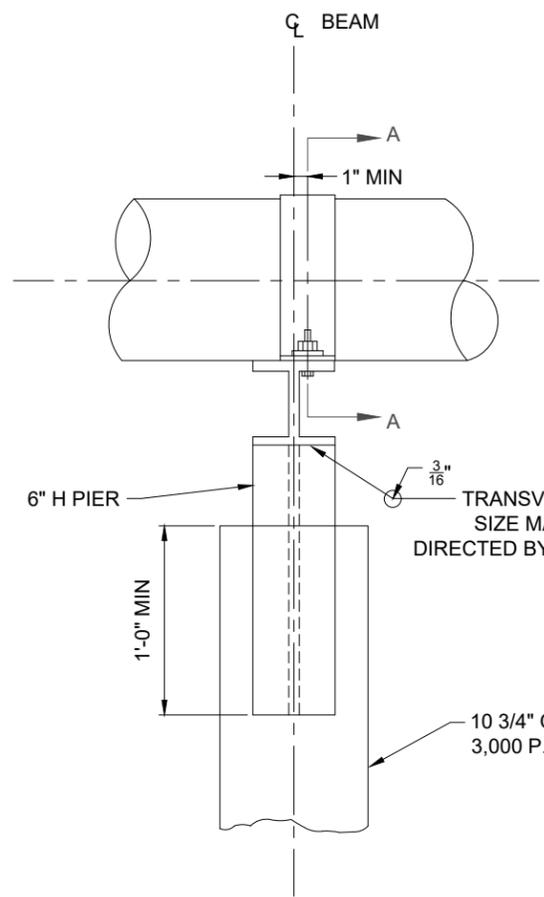


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DRAWING NO.
705

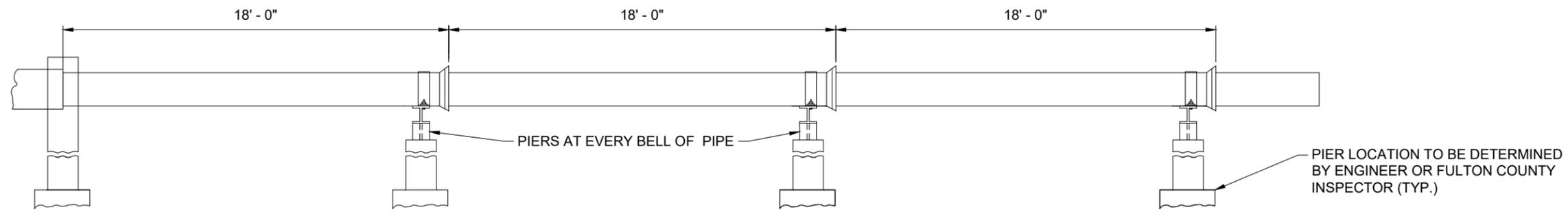


DETAIL OF CLAMP
N.T.S.



SECTION A-A
N.T.S.

- NOTE:
- ENGINEER TO SUBMIT DESIGN.
 - PILE TO BE DRIVEN TO REFUSAL OR 10 TON BEARING MIN., THEN FILLED WITH 3000 P.S.I. CONCRETE. TRANSVERSE BEAM TO BE WELDED TO PIER BEFORE SETTING CONCRETE.



DETAIL OF OPTIONAL STEEL PIER
N.T.S.

FULTON COUNTY STANDARD DETAIL 706
DETAIL OF OPTIONAL STEEL PIER

DATE	REVISIONS	DATE	REVISIONS

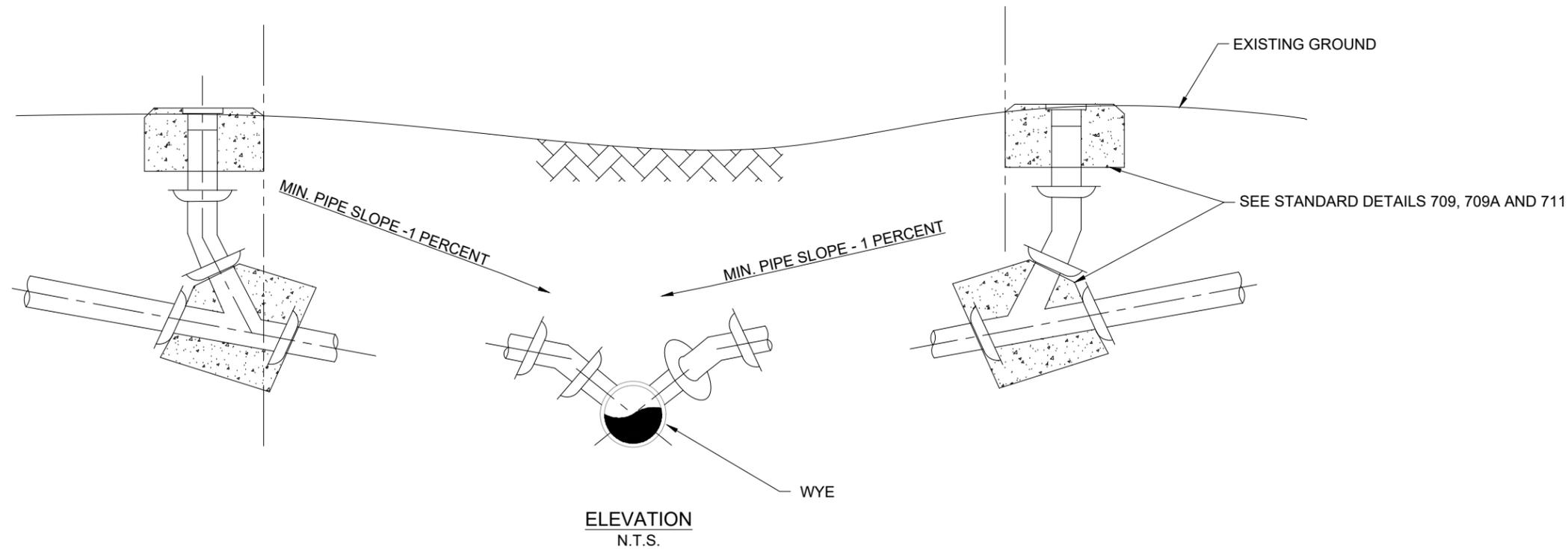
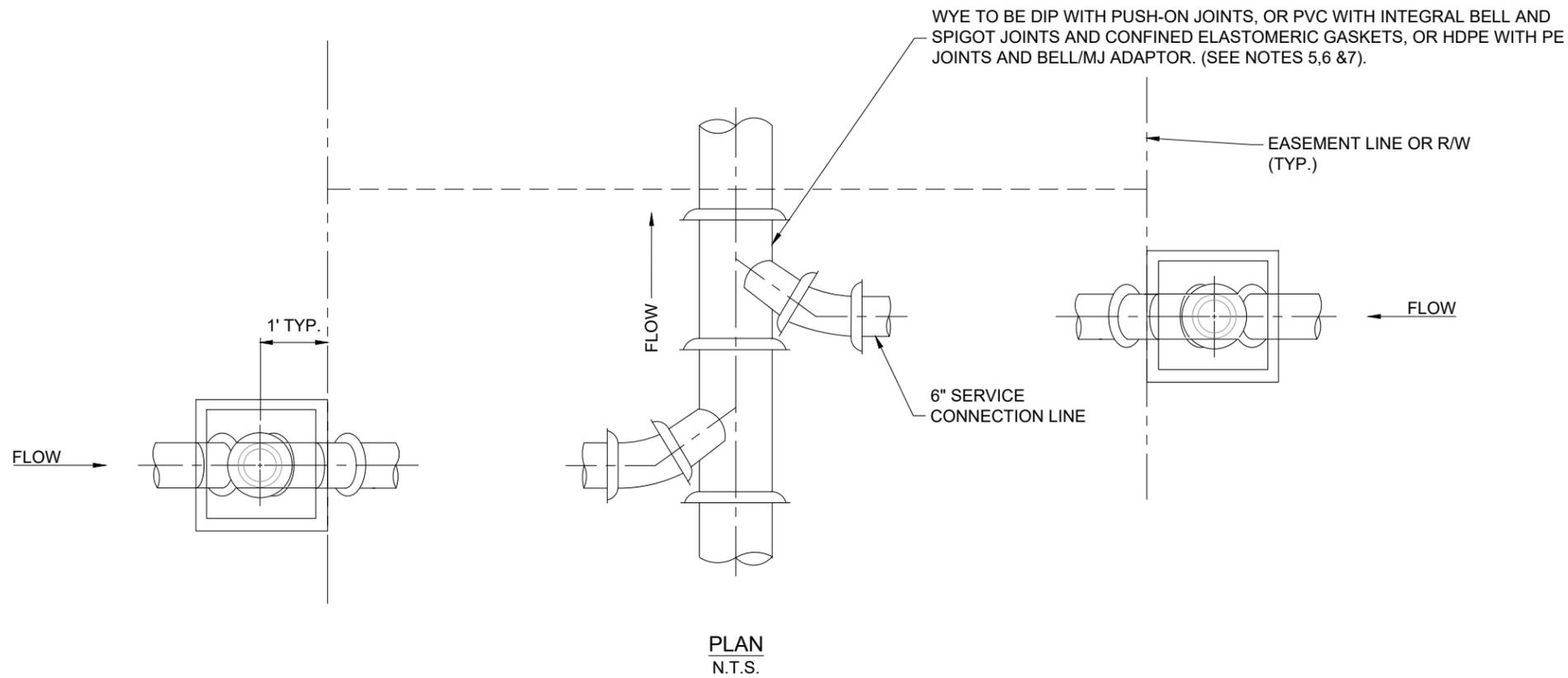
DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026



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DRAWING NO.
706

706-S.dwg December 08, 2025 9:40am



NOTES:

1. CONNECTIONS TO NEW SEWER SHALL BE WITH A WYE.
2. NO TEES WILL BE ALLOWED.
3. NO WYE CONNECTION WILL BE ALLOWED ON EXISTING SEWERS LARGER THAN 12". LATERALS MAY ONLY BE CONNECTED AT AN EXISTING OR NEW MANHOLE.
4. ALL CONNECTIONS TO EXISTING SEWERS SHALL BE MADE WITH A WYE.
5. WHERE SERVICE LINE CROSSES STATE HWY R/W, DI PIPE AND FITTINGS SHALL BE MJ JOINTS, HDPE PIPE AND FITTINGS SHALL BE PROVIDED WITH BELL/MJ ADAPTOR JOINED TO THE PLAIN END BY BUTT FUSION. TRENCHES SHALL BE BACKFILLED WITH CRUSHED STONE.
6. HDPE SERVICE LINE CROSSING STATE HWY R/W SHALL BE ENCASED IN STEEL CASING. REFER TO STANDARD DETAIL 107 FOR STEEL CASING REQUIREMENTS.
7. THE USE OF PVC IS ONLY ALLOWED IN LANSCAPE AREA.
8. DIP ONLY ALLOW AS AUTHORIZED BY FULTON COUNTY FOR LATERAL WITHIN PAVEMENT ON A CASE BY CASE BASIS.

FULTON COUNTY STANDARD DETAIL 707

**SEWER SERVICE CONNECTION TO
NEW AND EXISTING SANITARY SEWER**

DATE	REVISIONS	DATE	REVISIONS

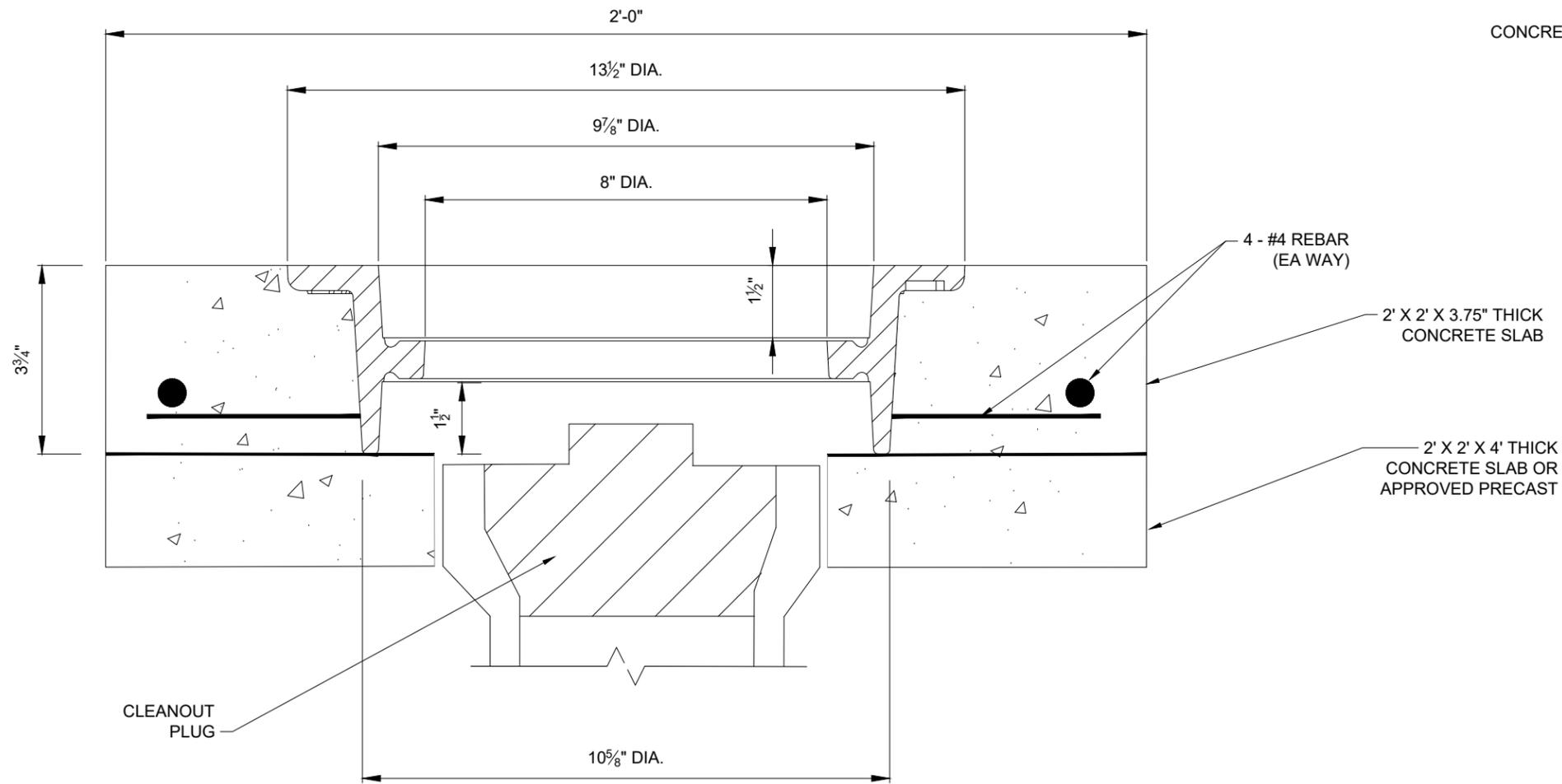
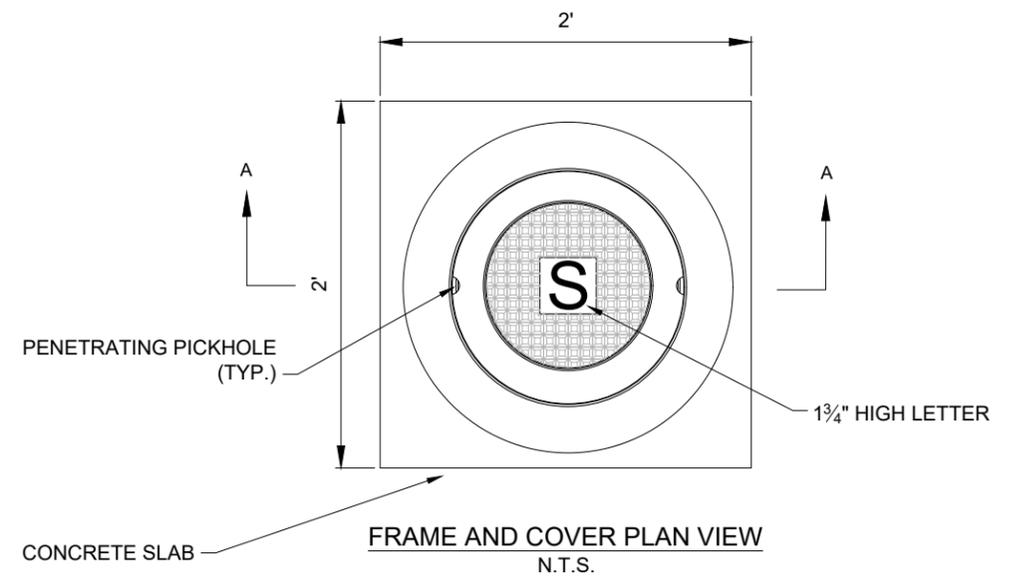
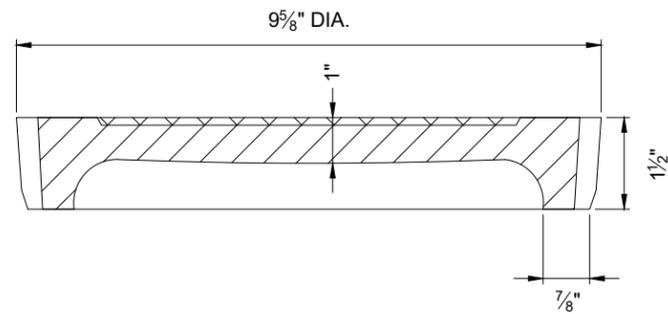
DGS/DRN/CHKD: MB/EB/ML
 APPROVED: TM
 DATE: 01-21-2026



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DRAWING NO.

707



SECTION A-A
N.T.S.

FULTON COUNTY STANDARD DETAIL 709A
SANITARY SEWER CLEANOUT BOX & LID FOR
RESIDENTIAL DRIVEWAYS AND SIDEWALKS

DATE	REVISIONS	DATE	REVISIONS

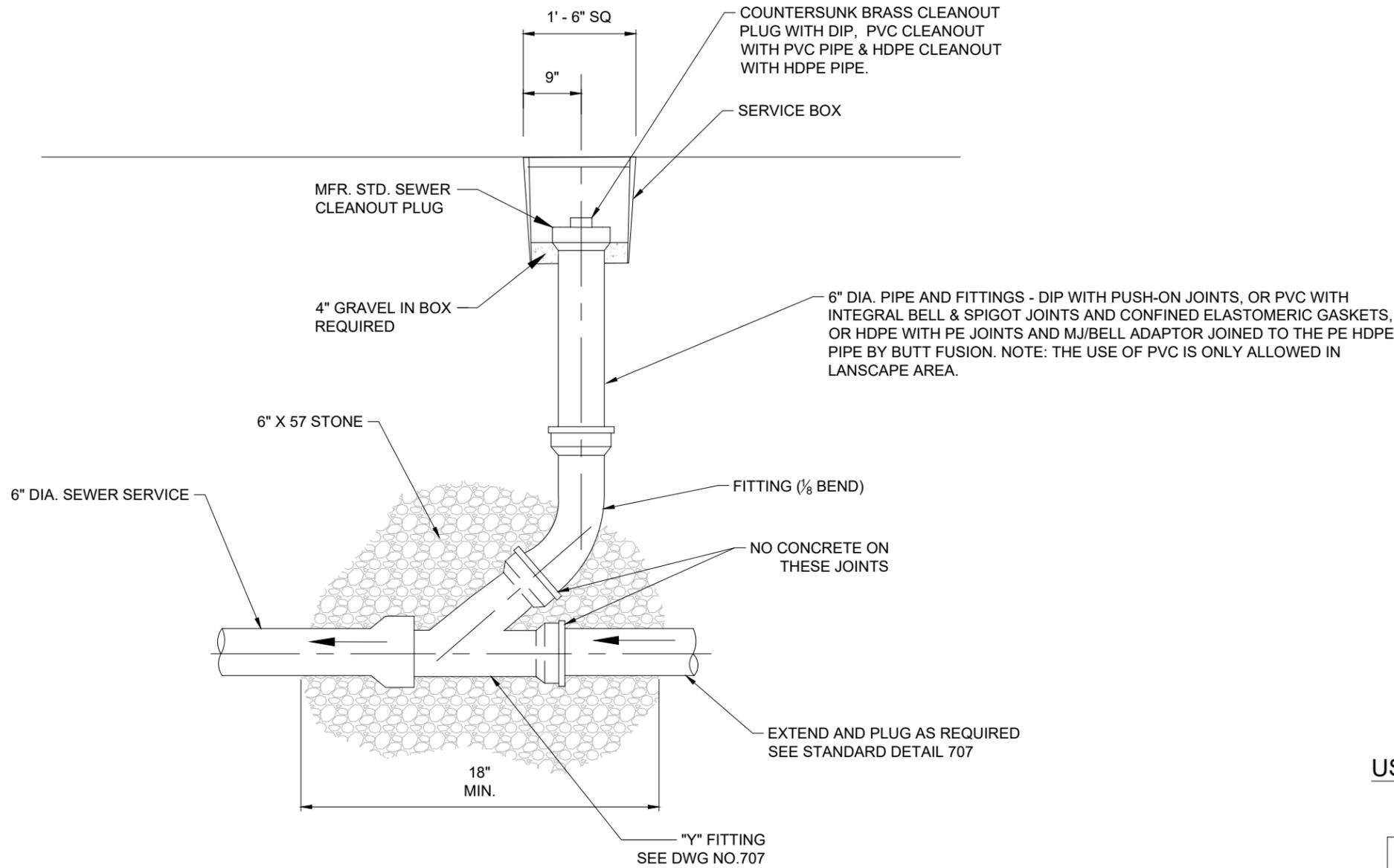
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APPROVED: TM
DATE: 01-21-2026



FULTON COUNTY PUBLIC WORKS
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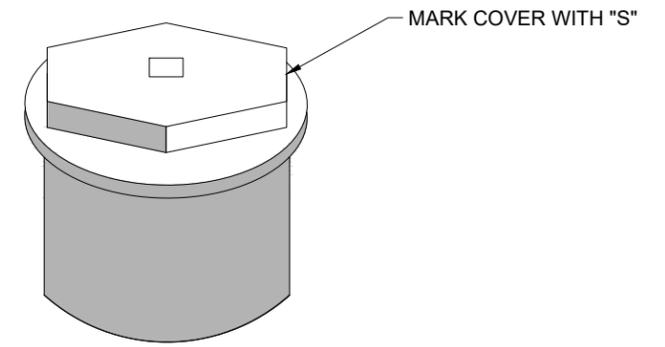
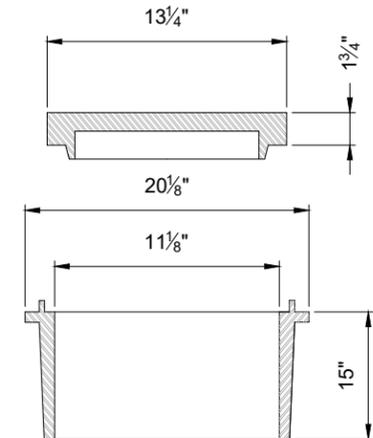
DRAWING NO.
709A

709-S.dwg December 08, 2025 9:40am



NOTES:

1. TOP OF SERVICE BOX SHALL BE FLUSH WITH FINAL SURFACE IN SIDEWALKS AND PAVED AREAS.
2. HEAVY DUTY CLEANOUT BOX AND LID ARE REQUIRED IN PAVED AREAS.
3. CLEANOUTS IN PAVED AREA ARE TO BE 6-INCH DUCTILE IRON PIPE.
4. DIP ONLY ALLOW AS AUTHORIZED BY FULTON COUNTY FOR LATERAL WITHIN PAVEMENT ON A CASE BY CASE BASIS.
5. PLUG TO BE REMOVED BY THE PLUMBER UPON CONNECTION OF BUILDING SYSTEM TO PUBLIC SYSTEM.



USF 7635 SEWER VALVE BOX AND COVER
N.T.S.

TABLE 709 - 1			
COVER TYPE	LOAD RATING	COVER WEIGHT	TOTAL WEIGHT
FJ	HEAVY DUTY	55	230

FULTON COUNTY STANDARD DETAIL 709

CLEANOUT DETAIL

DATE	REVISIONS	DATE	REVISIONS

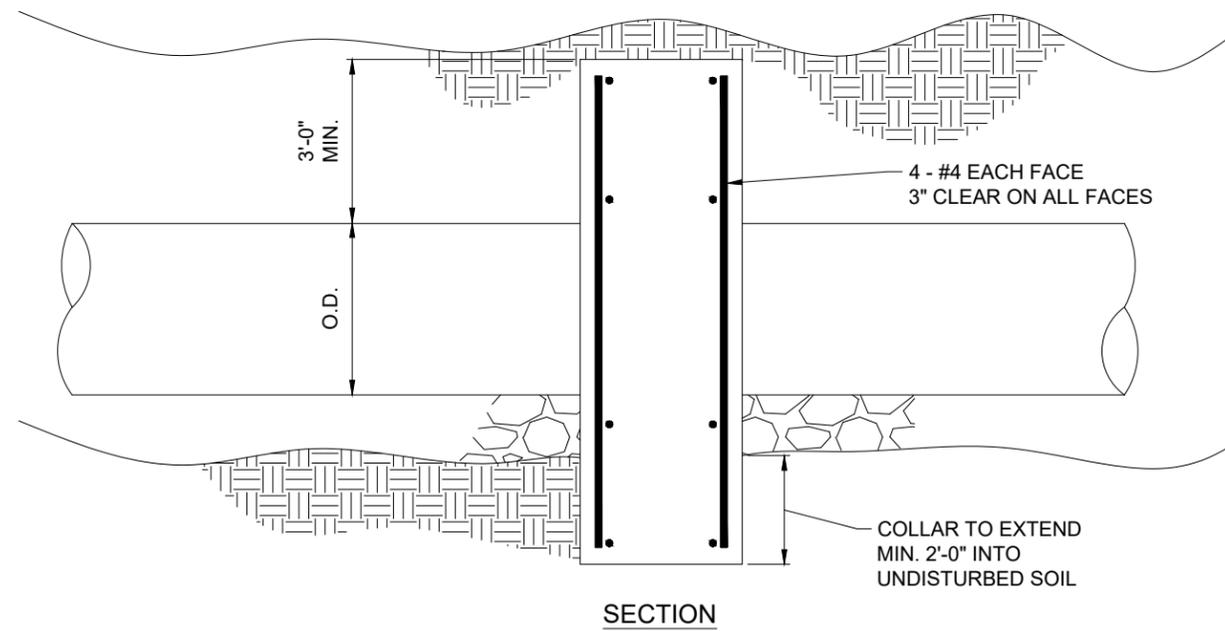
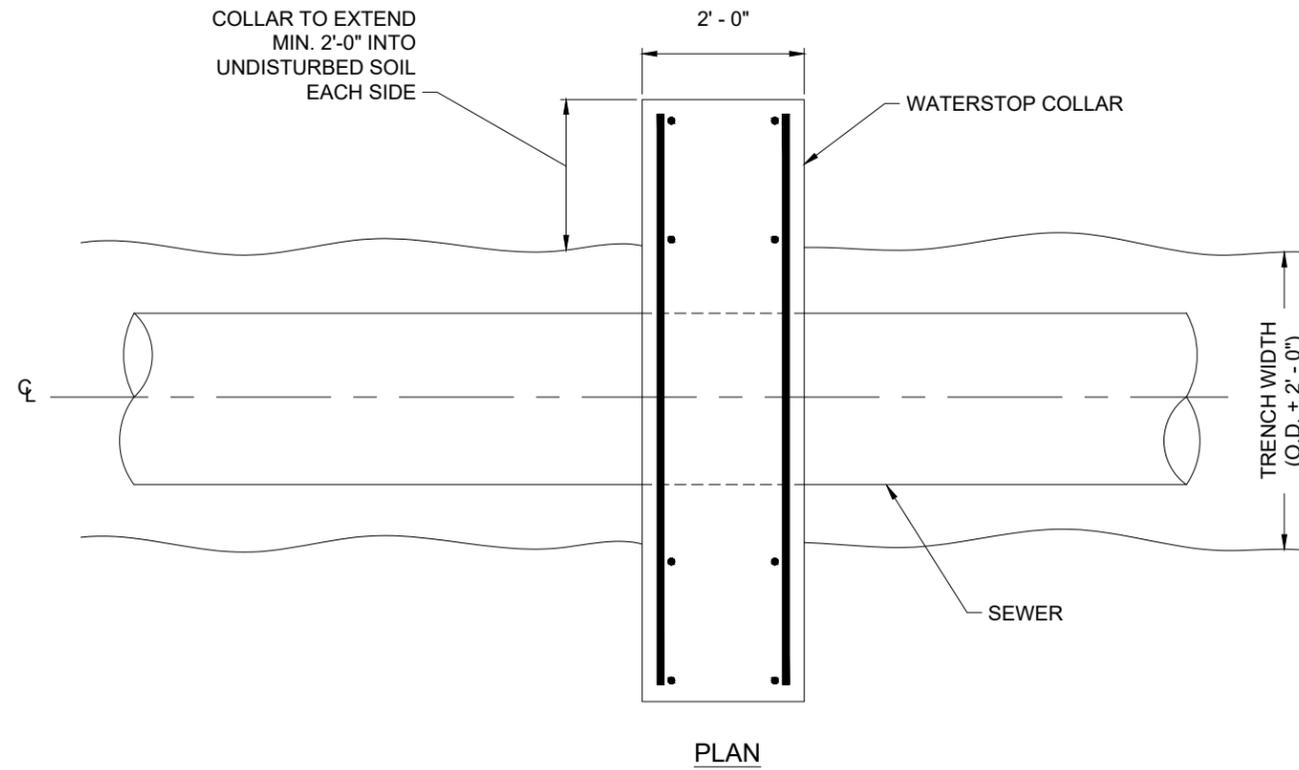
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 APPROVED: TM
 DATE: 01-21-2026



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709



FULTON COUNTY STANDARD DETAIL 710

WATERSTOP COLLAR

DATE	REVISIONS	DATE	REVISIONS

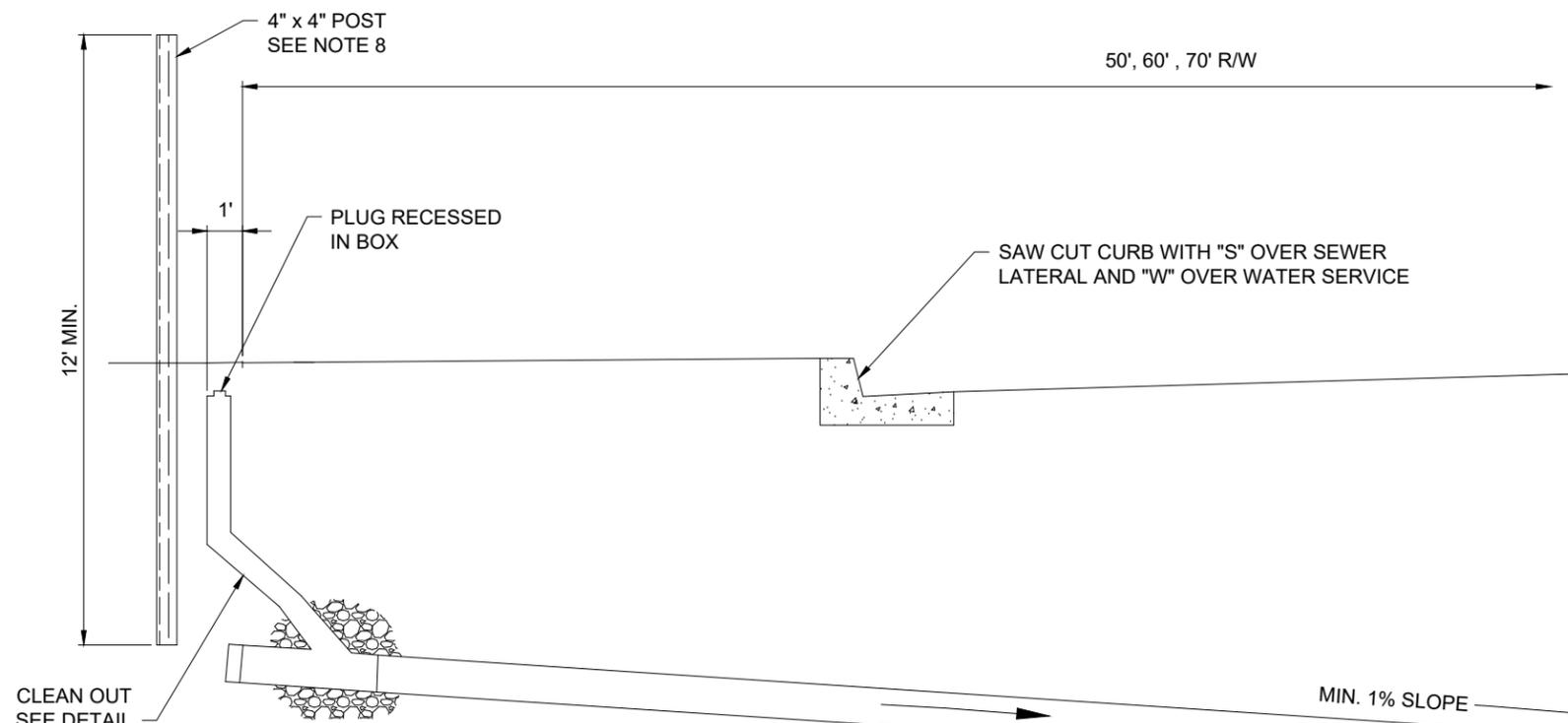
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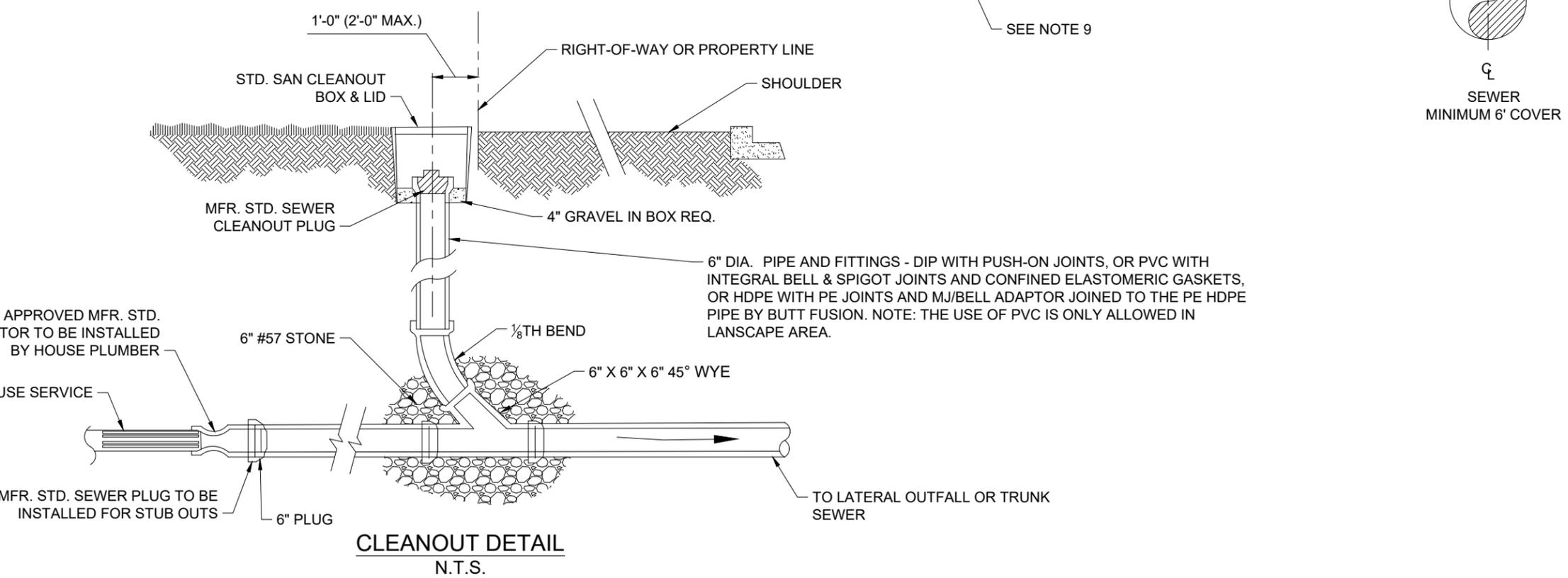
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710



NOTES:

1. CLEANOUTS TO BE INSTALLED BY SUBDIVISION DEVELOPER.
2. MAINTAIN MATERIAL FOR STANDARD SEWER CLEANOUT PLUG. PLUGS TO BE PVC FOR PVC LATERALS, HDPE FOR HDPE LATERALS, AND BRASS FOR D.I. LATERAL.
3. CLEANOUT BOX AND LID INSTALLED IN LANDSCAPE AREAS TO BE OLDCASTLE GREEN FLUSH HDPE 13" X 24" LIGHT DUTY 1324 CLEANOUT AND GREEN FLUSH SOLID COVER WITH FULTON COUNTY LOGO AND "SEWER CLEANOUT" ON THE COVER OR APPROVED EQUIVALENT.
4. CLEANOUT BOX AND LID INSTALLED IN RESIDENTIAL DRIVEWAYS AND ALL SIDEWALKS TO BE EJ GROUP, INC. 1621Z 1621A ASSEMBLY PRODUCT NUMBER 00162121A01 OR APPROVED EQUIVALENT.
5. CLEANOUT BOX AND LID INSTALLED WITHIN COMMERCIAL PAVEMENT OR WITHIN THE STREET PAVEMENT TO BE US FOUNDRY 7635 VALVE BOX AND ACCESS COVER WITH COVER TYPE FU OR APPROVED EQUIVALENT.
6. IF THE RISER IS GREATER THAN 6' - 0" THE JOINT WILL BE ENCASED IN 6" OF 1:3.5 CONCRETE.
7. MAINTAIN MATERIAL: USE PVC LATERALS WITH PVC MAINS, USE HDPE LATERALS WITH HDPE MAINS, AND USE D.I. LATERALS WITH D.I. MAINS.
8. INSTALL 4" x 4" POST NEXT TO ALL CLEANOUTS. POST TO BE MIN. 12' LONG FOR PLUMBER TO DETERMINE DEPTH OF CLEANOUT. USE 16' POST FOR DEEPER LATERALS.
9. WHERE SERVICE LINE CROSSES STATE HWY R/W, DI PIPE AND FITTINGS SHALL BE MJ JOINTS, HDPE PIPE AND FITTINGS SHALL BE PROVIDED WITH BELL/MJ ADAPTOR JOINED TO THE PLAIN END BY BUTT FUSION. TRENCHES SHALL BE BACKFILLED WITH CRUSHED STONE.
10. DIP ONLY ALLOW AS AUTHORIZED BY FULTON COUNTY FOR LATERAL WITHIN PAVEMENT ON A CASE BY CASE BASIS
11. PLUG TO BE REMOVED BY THE PLUMBER UPON CONNECTION OF BUILDING SYSTEM TO PUBLIC SYSTEM.



711-S.dwg December 08, 2025 9:41am

FULTON COUNTY STANDARD DETAIL 711
SEWER LATERAL INSTALLATION
DETAILS FOR CURBED STREETS

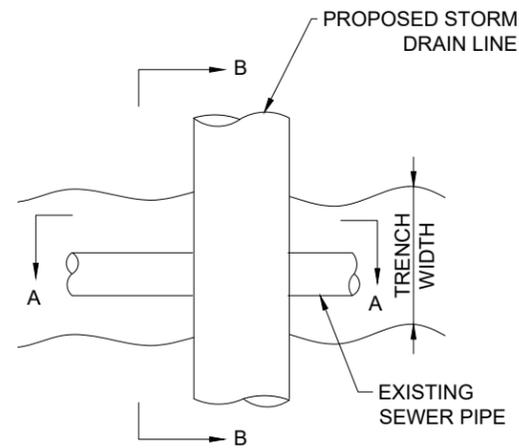
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APPROVED: TM
DATE: 01-21-2026

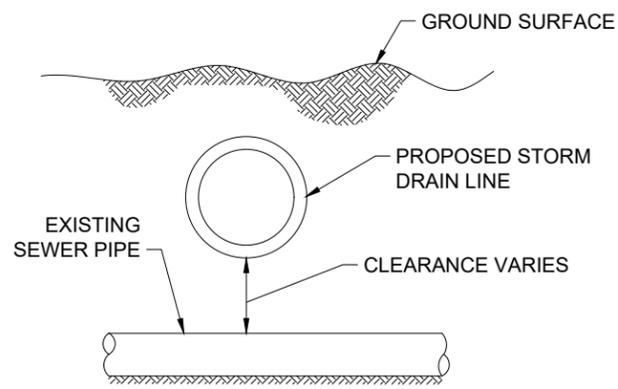


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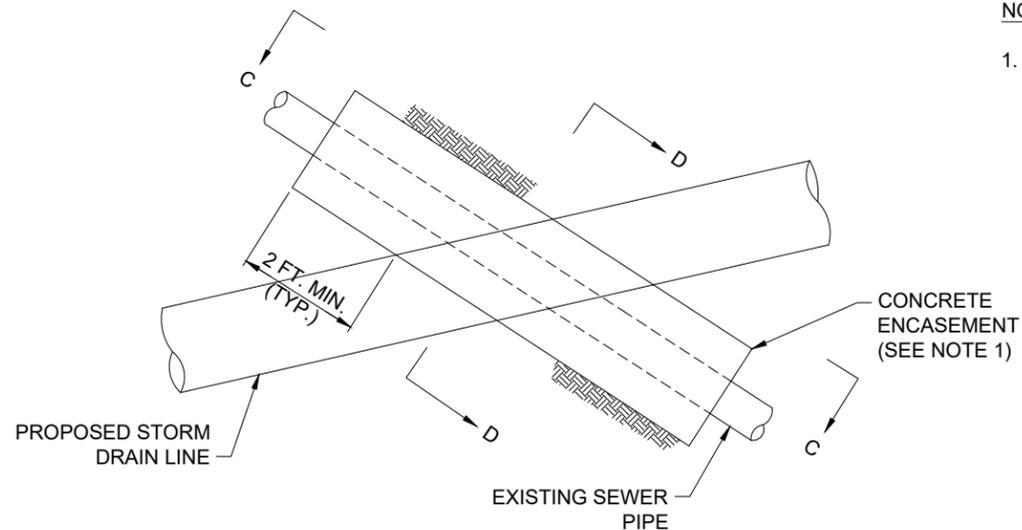
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711



PLAN



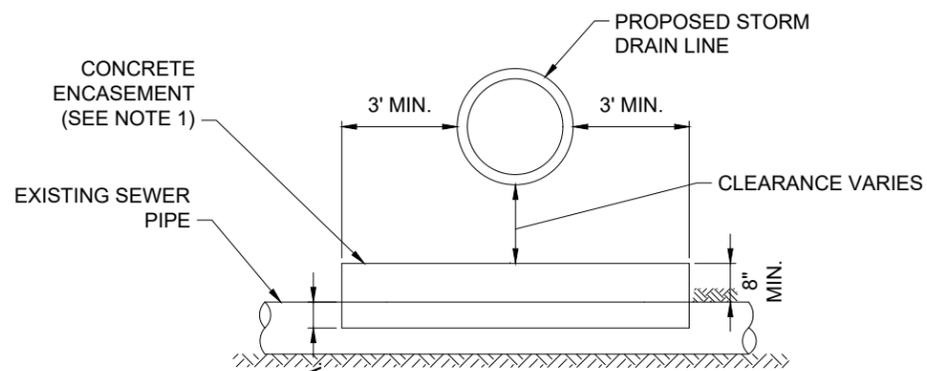
SECTION A - A



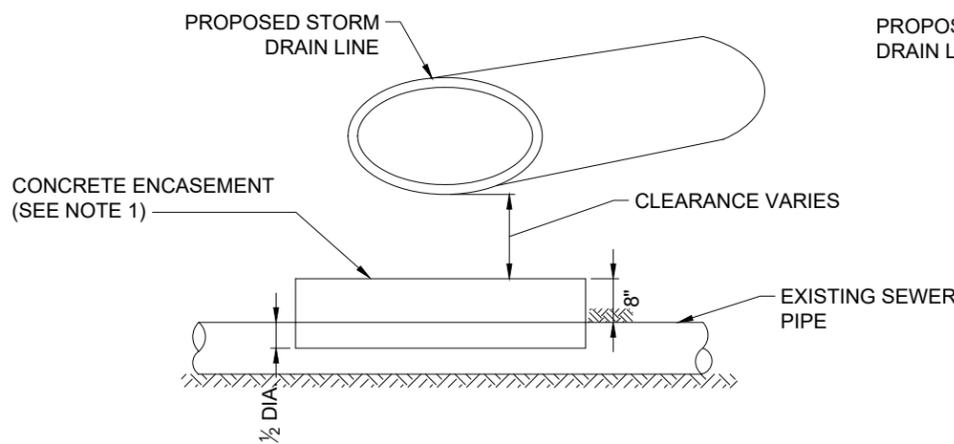
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NOTES:

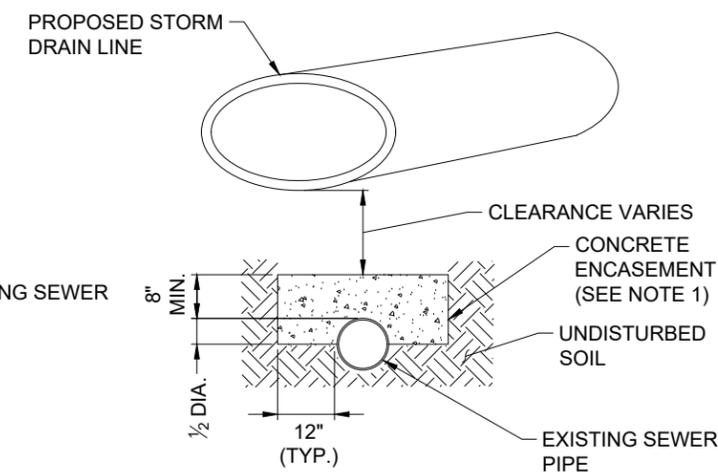
1. FOR ALL EXISTING SEWER PIPES, IF CLEARANCE BETWEEN THE STORM AND SEWER IS LESS THAN, OR EQUAL TO, 24 INCHES, THE EXISTING SEWER PIPE SHALL BE PROTECTED BY CONCRETE ENCASEMENT.



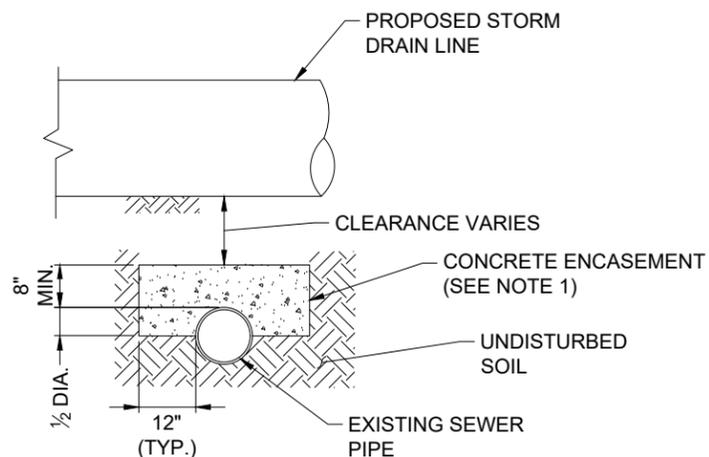
SECTION A - A WITH CONCRETE ENCASEMENT



SECTION C - C



SECTION D - D



SECTION B - B WITH CONCRETE ENCASEMENT

FULTON COUNTY STANDARD DETAIL 601

STORM DRAIN LINE CROSSING ABOVE EXISTING SANITARY SEWER PIPE

DATE	REVISIONS	DATE	REVISIONS

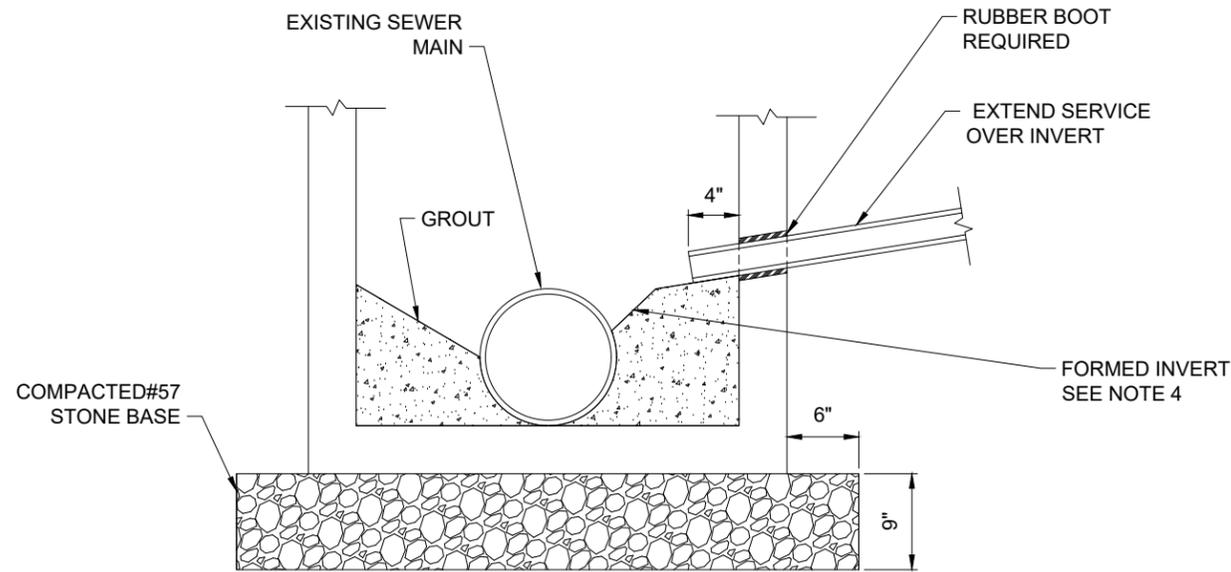
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 DATE: 01-21-2026



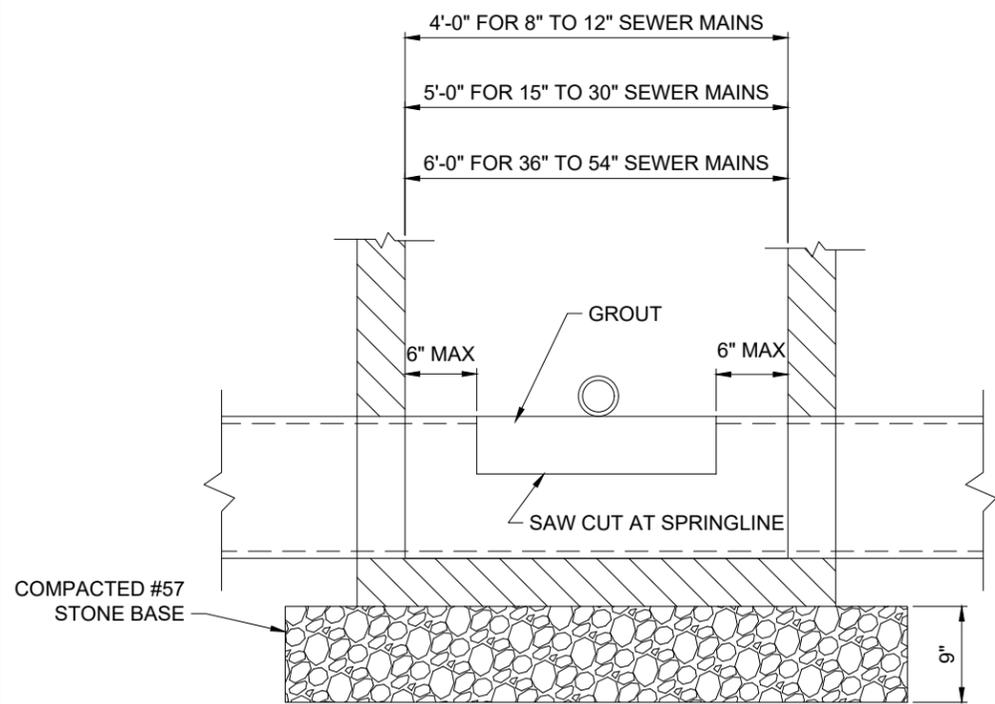
FULTON COUNTY PUBLIC WORKS
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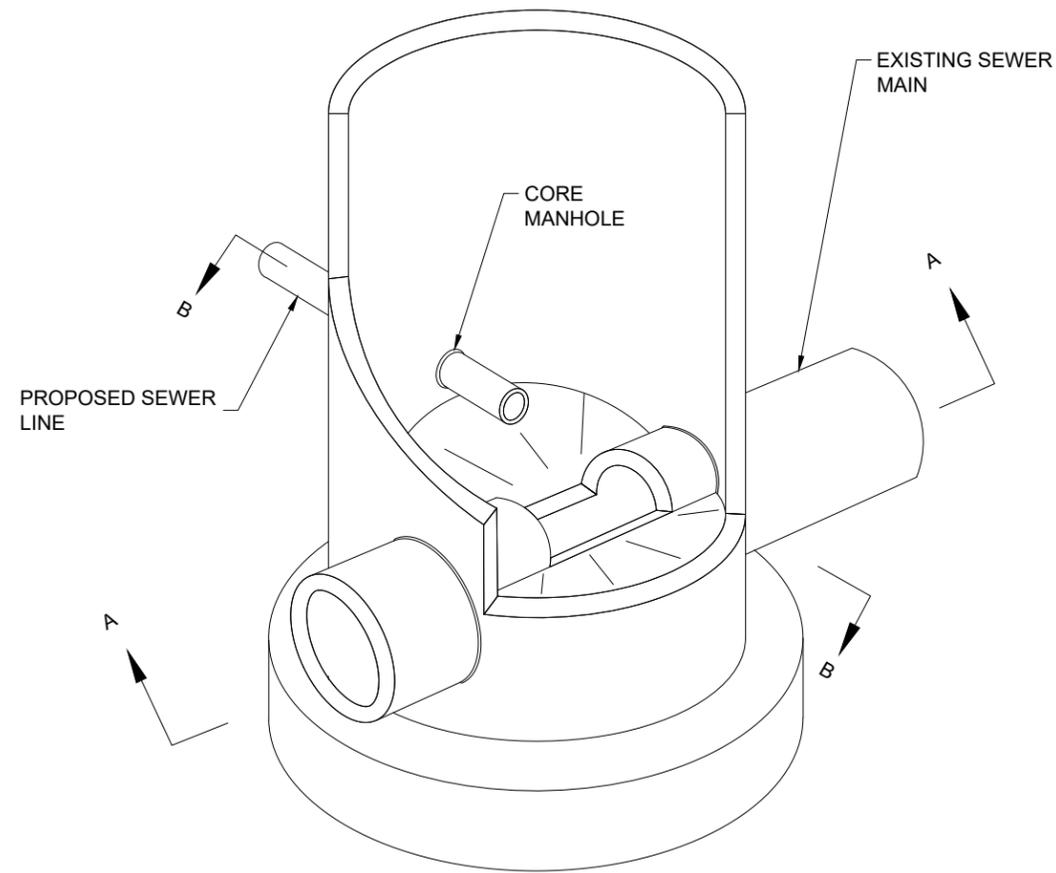
712



CROSS SECTION AT EXISTING SEWER MAIN (B-B)



SECTION ALONG CENTERLINE OF EXISTING SEWER MAIN (A-A)



NOTES:

1. FLOW SHALL BE MAINTAINED DURING DOGHOUSE MANHOLE CONSTRUCTION.
2. MANHOLE PAD TO REST UPON A MINIMUM OF 9" COMPACTED #57 STONE BASE.
3. REFER TO STANDARD DETAILS 113, 114A THROUGH F, AND 115 FOR ADDITIONAL DETAILS OF MANHOLE.
4. A FORMED INVERT IS REQUIRED FROM THE NEW SERVICE TO THE EXISTING PIPE. REFER TO STANDARD DETAILS 113, 114, AND 115 FOR DETAILS OF THE INVERT.

713-S.dwg December 08, 2025 9:41am

FULTON COUNTY STANDARD DETAIL 713
DOGHOUSE MANHOLE DETAIL

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026

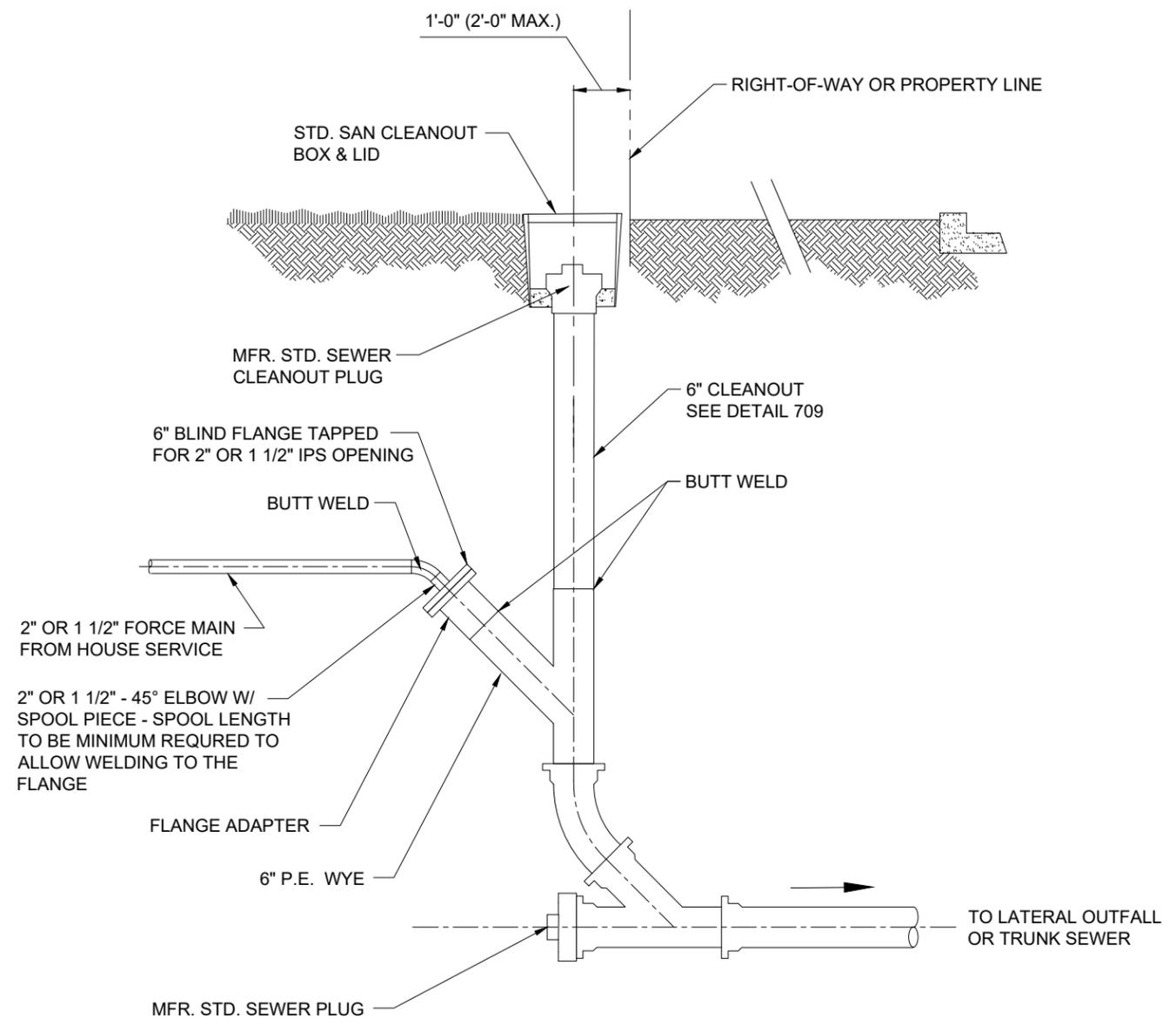


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713

714-S.dwg December 08, 2025 9:41am



FORCE MAIN
NTS

FULTON COUNTY STANDARD DETAIL 714

**FORCE MAIN CONNECTION
DETAIL AT CLEANOUT**

DATE	REVISIONS	DATE	REVISIONS

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 APPROVED: TM
 DATE: 01-21-2026

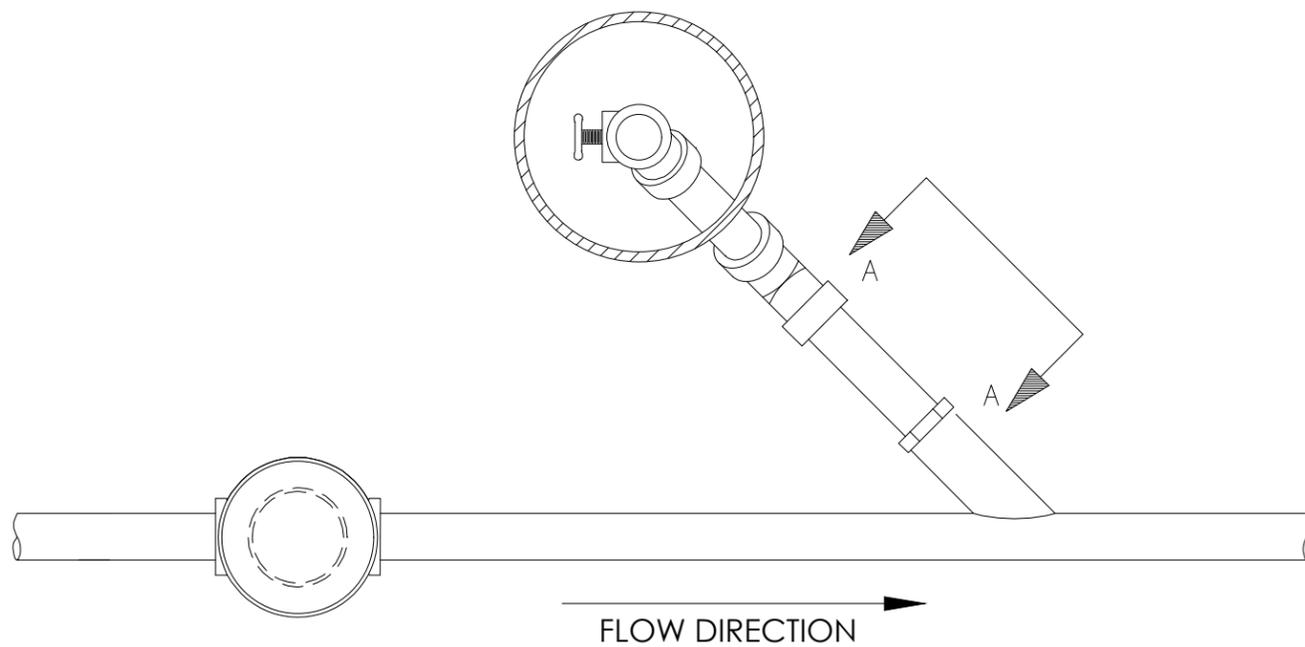


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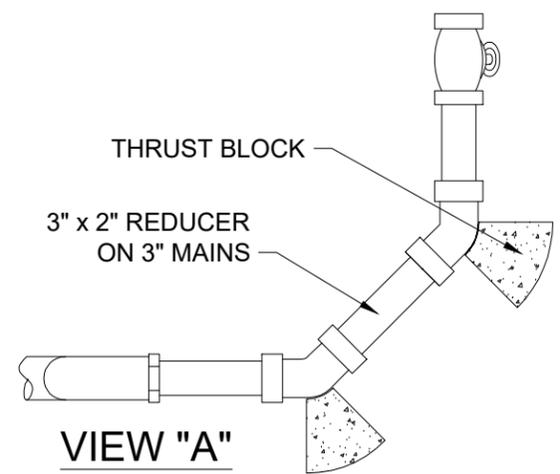
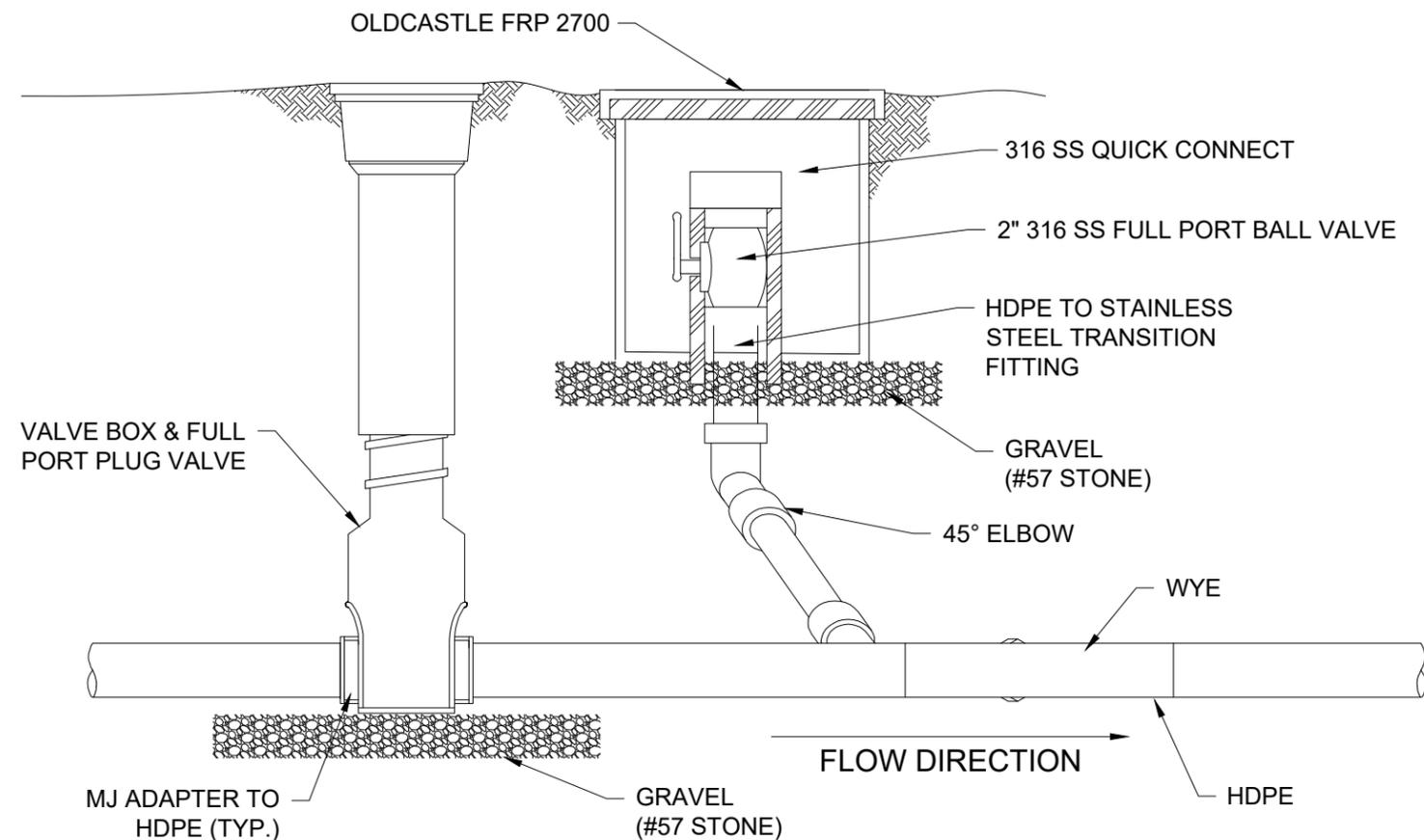
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714

NOTES:

1. FULTON COUNTY PUBLIC WORKS REPRESENTATIVE SHALL INSPECT TRENCH BEFORE INSTALLATION AND SUBMIT INSPECTION REPORT FOR COMPACTION OF TRENCH.
2. FULTON COUNTY PUBLIC WORKS REPRESENTATIVE SHALL OBSERVE AND REPORT MARKING TAPE INSTALLATION.
3. FULTON COUNTY PUBLIC WORKS REPRESENTATIVE SHALL STAMP AND SIGN ALL INSPECTION REPORTS.
4. 3M™ ELECTRONIC MARKING SYSTEM (EMS) CAUTION TAPE 7904, GREEN, 6 IN, WASTE WATER, SHALL BE INSTALLED AT A DEPTH OF 3-FEET FROM FINAL GRADE CENTERED OVER THE FORCEMAIN AND SERVICE LATERALS. THE ENCASEMENT AND MARKING TAPE SHALL BE INSTALLED ALONG THE PUBLIC SYSTEM FROM THE BACKFLOW CHECK VALVES TO DISCHARGE MANHOLE.
5. FINAL PLAT MUST SHOW AND RECORD A 15-FOOT EASEMENT TO BE DEDICATED TO FULTON COUNTY PUBLIC WORKS FOR THE COMMON LOW-PRESSURE FORCEMAIN. EASEMENT SHOULD EXTEND 7.5-FEET ON EACH SIDE OF THE COMMON FORCEMAIN CENTERLINE, AND 1-FOOT PAST THE BOX FOR THE FLUSHING CONNECTION. FULTON COUNTY MAINTENANCE RESPONSIBILITY STARTS AT THE PUBLIC MANHOLE AND ENDS 1-FOOT OUTSIDE OF THE BOX FOR THE FLUSHING CONNECTION ASSEMBLY.
6. EACH SYSTEM SHALL BE INDIVIDUALLY APPROVED BY THE DIRECTOR OF PUBLIC WORKS OR DESIGNEE.
7. ADDITIONAL CONDITIONS MAY BE ADDED TO THE SYSTEM BASED ON THE DESIGN AND TOPOGRAPHY



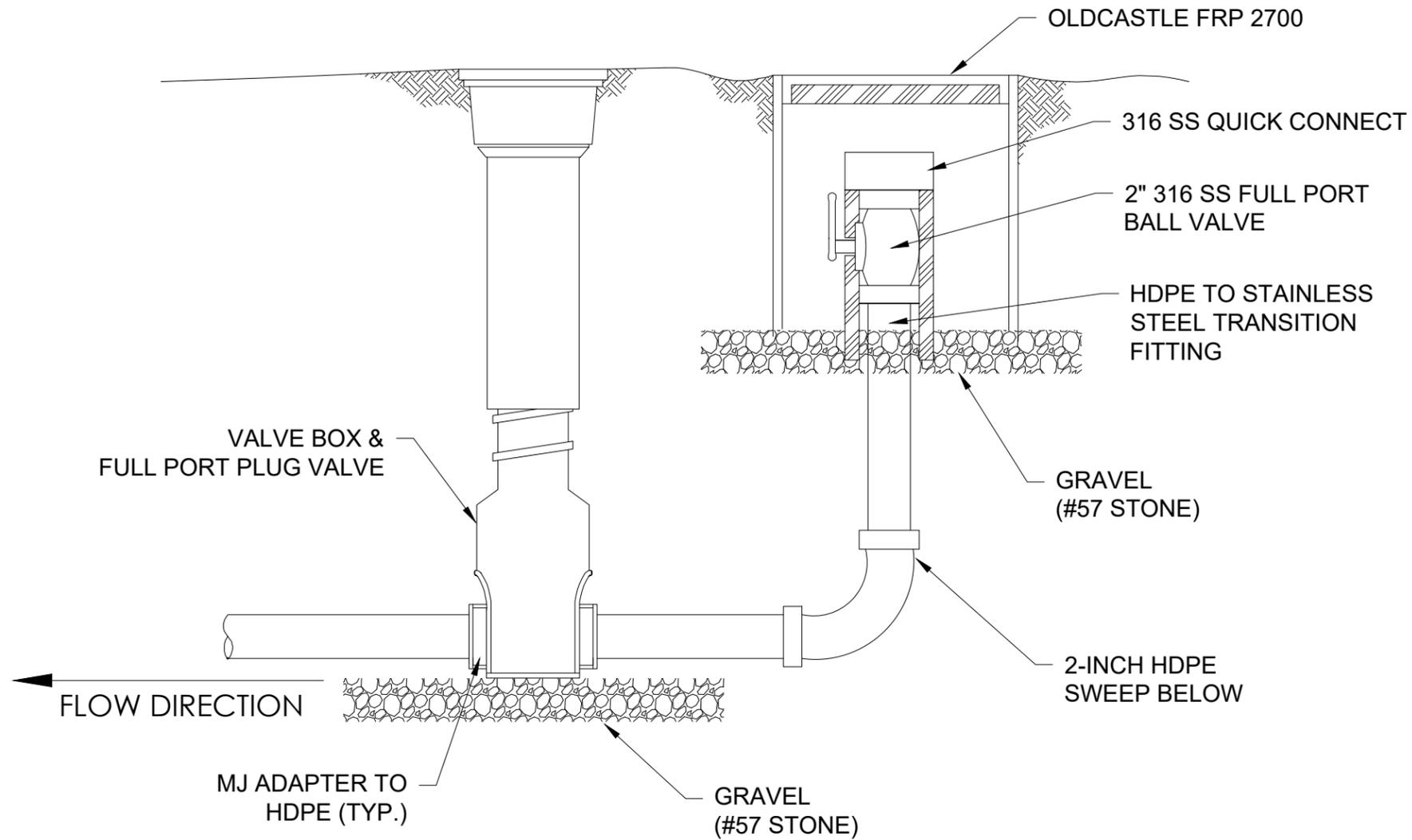
PLAN VIEW



VIEW "A"

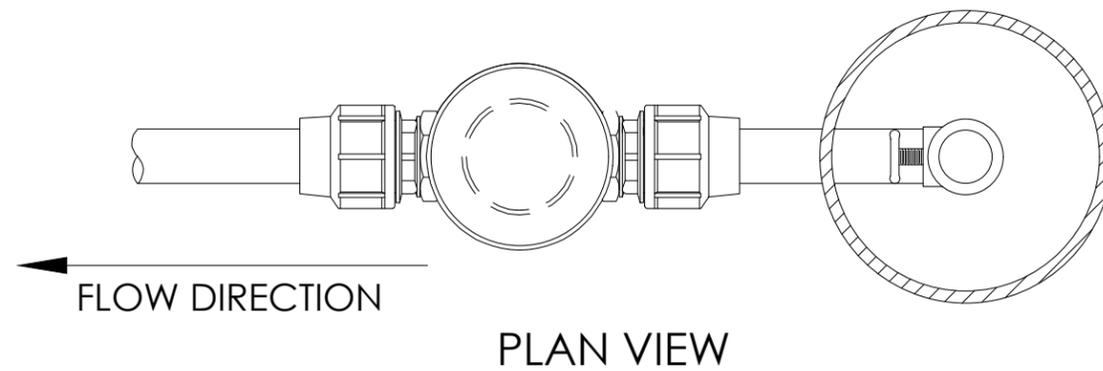
715-S.dwg December 08, 2025 9:41am

FULTON COUNTY STANDARD DETAIL 715 TYPICAL IN-LINE FLUSHING CONNECTION LOW PRESSURE SEWER SYSTEM		DATE	REVISIONS	DATE	REVISIONS		 FULTON COUNTY	FULTON COUNTY PUBLIC WORKS 141 PRYOR ST. ATLANTA, GA. 30303 404-612-7400 FAX: 404-224-0498	DRAWING NO. 715
						DGS/DRN/CHKD: HM/HM/--			
						APPROVED: --			
						DATE: 01-21-2026			



NOTES:

1. FULTON COUNTY PUBLIC WORKS REPRESENTATIVE SHALL INSPECT TRENCH BEFORE INSTALLATION AND SUBMIT INSPECTION REPORT FOR COMPACTION OF TRENCH.
2. FULTON COUNTY PUBLIC WORKS REPRESENTATIVE SHALL OBSERVE AND REPORT MARKING TAPE INSTALLATION.
3. FULTON COUNTY PUBLIC WORKS REPRESENTATIVE SHALL STAMP AND SIGN ALL INSPECTION REPORTS.
4. 3M™ ELECTRONIC MARKING SYSTEM (EMS) CAUTION TAPE 7904, GREEN, 6 IN, WASTE WATER, SHALL BE INSTALLED AT A DEPTH OF 3- FEET FROM FINAL GRADE CENTERED OVER THE FORCEMAIN AND SERVICE LATERALS. THE ENCASEMENT AND MARKING TAPE SHALL BE INSTALLED ALONG THE PUBLIC SYSTEM FROM THE BACKFLOW CHECK VALVES TO DISCHARGE MANHOLE.
5. FINAL PLAT MUST SHOW AND RECORD A 15-FOOT EASEMENT TO BE DEDICATED TO FULTON COUNTY PUBLIC WORKS FOR THE COMMON LOW-PRESSURE FORCEMAIN. EASEMENT SHOULD EXTEND 7.5- FEET ON EACH SIDE OF THE COMMON FORCEMAIN CENTERLINE, AND 1-FOOT PAST THE BOX FOR THE FLUSHING CONNECTION.
6. EACH SYSTEM SHALL BE INDIVIDUALLY APPROVED BY THE DIRECTOR OF PUBLIC WORKS OR DESIGNEE.
7. ADDITIONAL CONDITIONS MAY BE ADDED TO THE SYSTEM BASED ON THE DESIGN AND TOPOGRAPHY

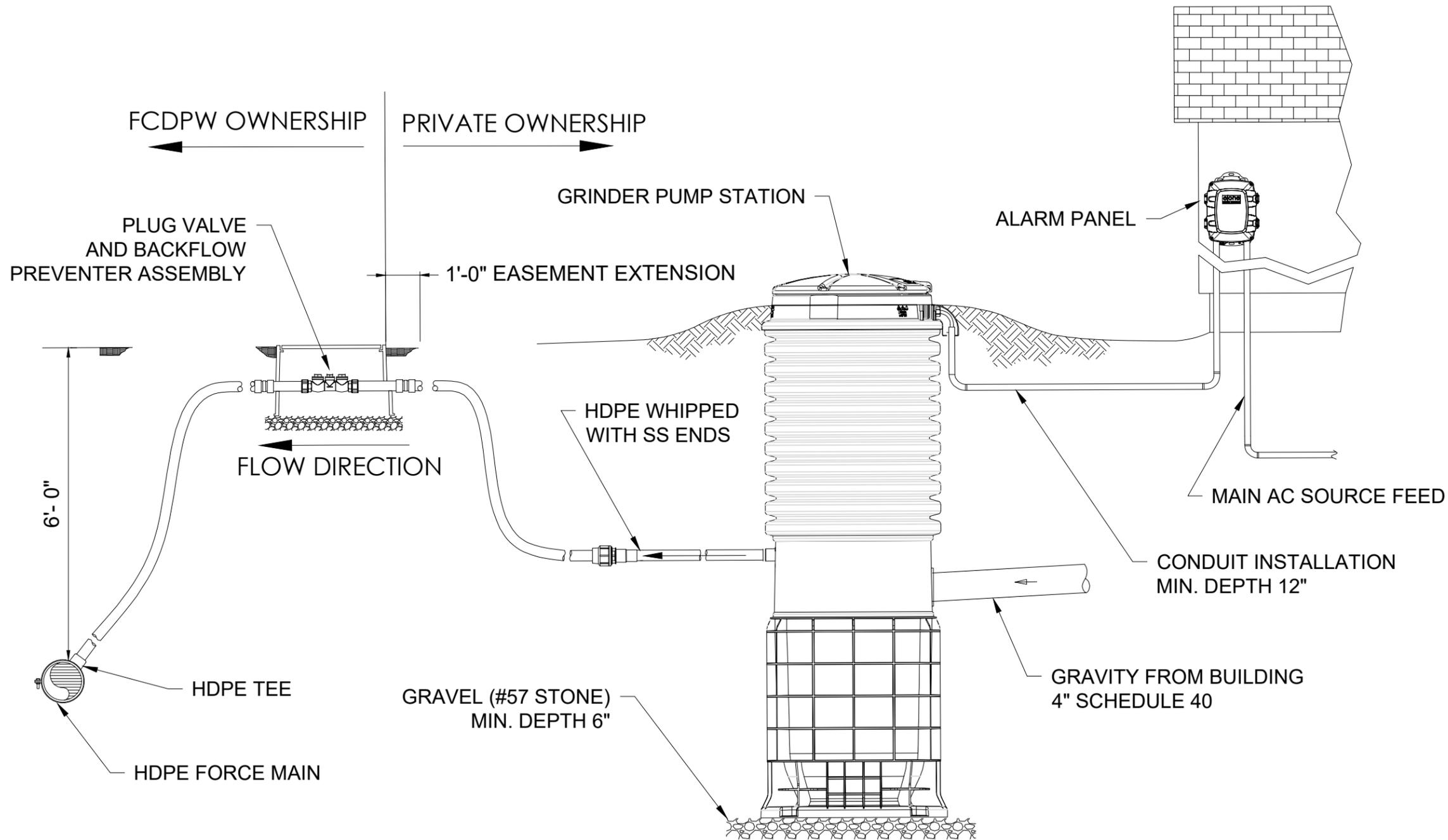


716-S.dwg December 10, 2025 5:08pm

FULTON COUNTY STANDARD DETAIL 716 TYPICAL END-OF-LINE FLUSHING CONNECTION LOW PRESSURE SEWER SYSTEM		DATE	REVISIONS	DATE	REVISIONS			FULTON COUNTY PUBLIC WORKS 141 PRYOR ST. ATLANTA, GA. 30303 404-612-7400 FAX: 404-224-0498	DRAWING NO. 716

NOTES:

1. FULTON COUNTY PUBLIC WORKS REPRESENTATIVE SHALL INSPECT TRENCH BEFORE INSTALLATION AND SUBMIT INSPECTION REPORT FOR COMPACTION OF TRENCH.
2. FULTON COUNTY PUBLIC WORKS REPRESENTATIVE SHALL OBSERVE AND REPORT MARKING TAPE INSTALLATION.
3. FULTON COUNTY PUBLIC WORKS REPRESENTATIVE SHALL STAMP AND SIGN ALL INSPECTION REPORTS.
4. 3M™ ELECTRONIC MARKING SYSTEM (EMS) CAUTION TAPE 7904, GREEN, 6 IN, WASTE WATER, SHALL BE INSTALLED AT A DEPTH OF 3-FEET FROM FINAL GRADE CENTERED OVER THE FORCEMAIN AND SERVICE LATERALS. THE ENCASEMENT AND MARKING TAPE SHALL BE INSTALLED ALONG THE PUBLIC SYSTEM FROM THE BACKFLOW CHECK VALVES TO DISCHARGE MANHOLE.
5. FINAL PLAT MUST SHOW AND RECORD A 15-FOOT EASEMENT TO BE DEDICATED TO FULTON COUNTY PUBLIC WORKS FOR THE COMMON LOW-PRESSURE FORCEMAIN. EASEMENT SHOULD EXTEND 7.5-FEET ON EACH SIDE OF THE COMMON FORCEMAIN CENTERLINE. EASEMENTS SHALL ALSO EXTEND ALL THE WAY UP TO AND INCLUDE THE SERVICE CONNECTION AND VALVE BOX. THE EASEMENT SHOULD EXTEND 1-FOOT PAST THE BOX FOR THE PLUG VALVE AND BACKFLOW PREVENTER ASSEMBLY.
6. FULTON COUNTY PUBLIC WORKS WILL APPROVE THE PRIVATE LOW-PRESSURE SYSTEM PROVIDED THAT THE DEVELOPER/HOMEOWNERS ASSOCIATION (HOA) PROVIDES A SIGNED MAINTENANCE AGREEMENT WITH A QUALIFIED, LICENSED CONTRACTOR OR PLUMBER. FULTON COUNTY MAINTENANCE RESPONSIBILITY STARTS AT THE PUBLIC MANHOLE AND ENDS JUST OUTSIDE OF THE BOX FOR THE PLUG VALVE AND BACKFLOW PREVENTER ASSEMBLY.
7. EACH SYSTEM SHALL BE INDIVIDUALLY APPROVED BY THE DIRECTOR OF PUBLIC WORKS OR DESIGNEE.
8. ADDITIONAL CONDITIONS MAY BE ADDED TO THE SYSTEM BASED ON THE DESIGN AND TOPOGRAPHY.



FULTON COUNTY STANDARD DETAIL 717

TYPICAL SERVICE CROSS SECTION
LOW PRESSURE SEWER SYSTEM

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: HM/HM/KK
 APPROVED: TM
 DATE: 01-21-2026

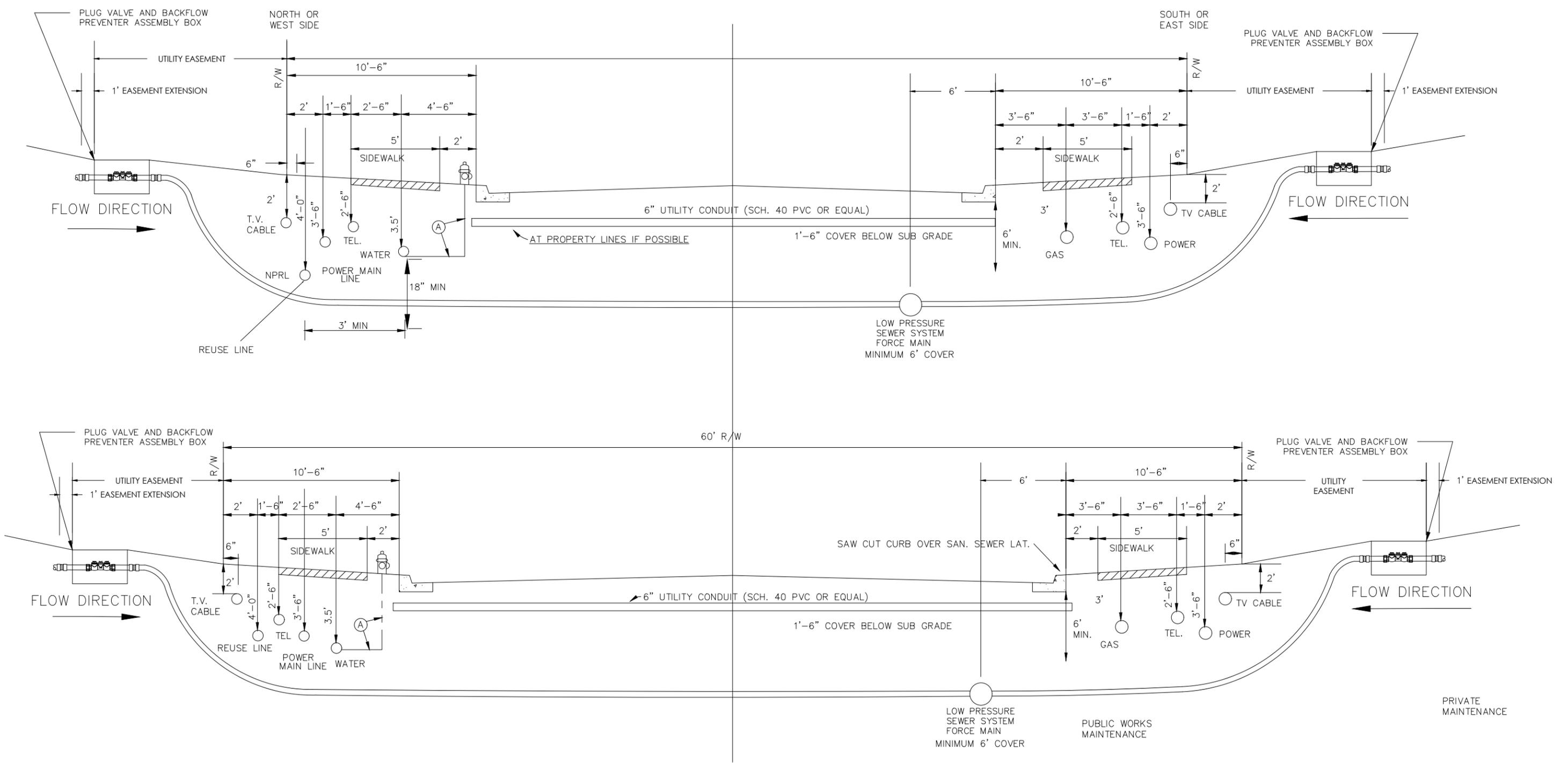


FULTON COUNTY PUBLIC WORKS
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717

718-S.dwg December 10, 2025 5:10pm



FULTON COUNTY STANDARD DETAIL 718
TYPICAL SERVICE CROSS SECTION
UTILITY LOCATION
LOW PRESSURE SEWER SYSTEM

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: HM/HM/KK
 APPROVED: TM
 DATE: 01-21-2026

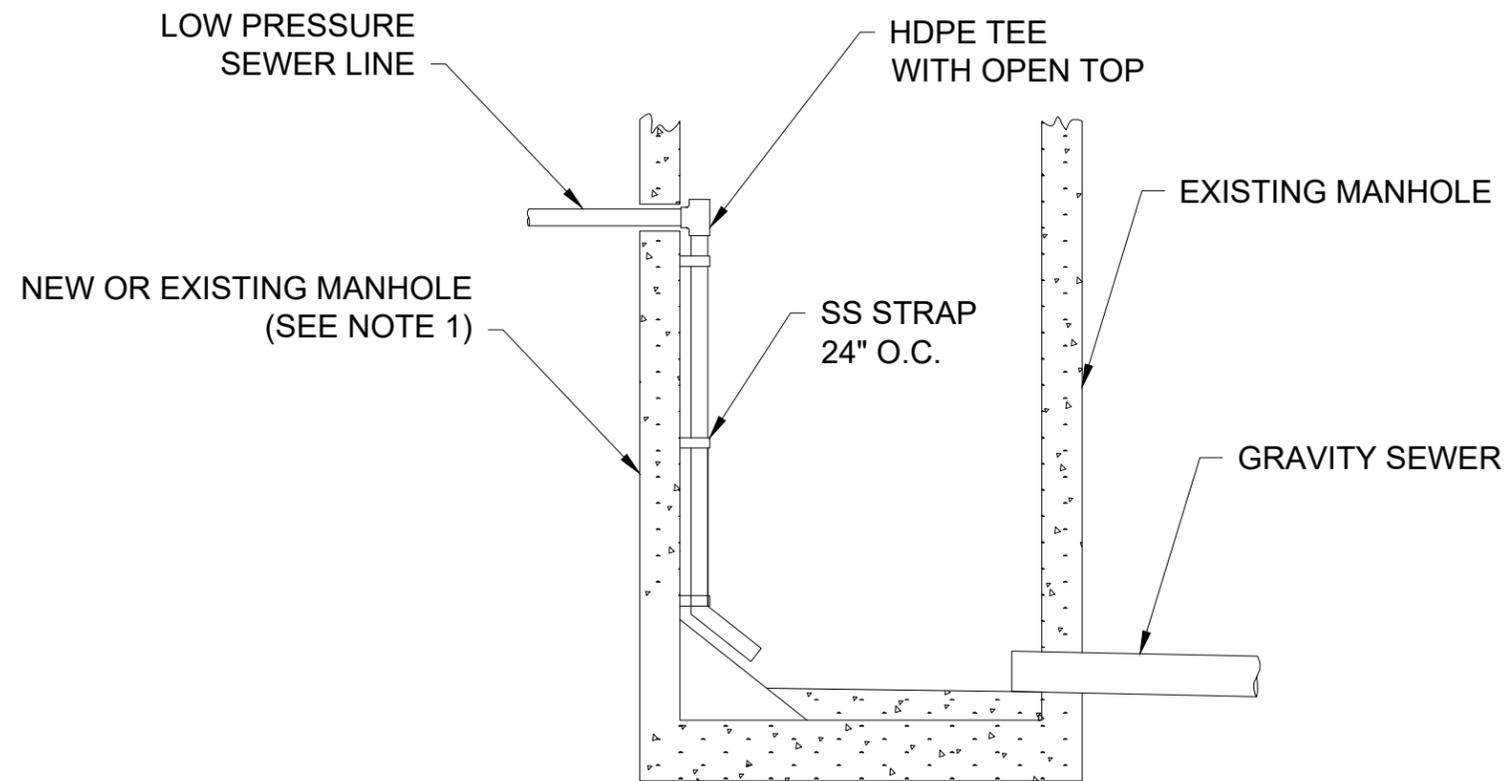


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718

NOTES:

1. FOR NEW MANHOLE INSTALL PER DETAIL 114-A OR 114-B STANDARD HDPE MANHOLE. FOR TIE-IN TO EXISTING MANHOLE, CORE FROM INSIDE. CORE SHALL BE AWAY FROM BARREL JOINTS.
2. EXISTING MANHOLE SHALL BE PREPARED AND LINED WITH COATING CAPABLE OF RESISTING CORROSION CAUSED BY HYDROGEN SULFIDE GASES AND OTHER CONSTITUENTS FOUND IN WASTEWATER.
3. NEW MANHOLE SHALL BE HDPE.
4. THE INSTALLED PIPE SHALL BE ALLOWED TO REST A MINIMUM OF 12 HOURS BEFORE TIE-IN TO THE DISCHARGE MANHOLE.
5. HDPE PIPE ENTERING A MANHOLE SHALL BE INSTALLED PER MANHOLE STANDARD DETAIL WITH FLEXIBLE RUBBER CONNECTOR, OR BOOT, TO NEW MANHOLE.
6. DROPS TO BE CONSTRUCTED OF SCHEDULE 80 PVC.
7. USE 1/2 INCH DIAMETER EXPANSION TYPE STAINLESS STEEL CINCH BOLTS WITH STAINLESS STEEL WASHER AND NUTS TO ATTACH STRAPS.
8. MINIMUM OF THREE STRAPS REQUIRED.
9. MINIMUM SIZE OF MANHOLE WITH INSIDE DROP SHALL BE 60-INCH.



719-S.dwg December 10, 2025 5:13pm

FULTON COUNTY STANDARD DETAIL 719

**TYPICAL DROP CONNECTION
LOW PRESSURE SEWER SYSTEM IN MANHOLE**

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: HM/HM/KK
 APPROVED: TM
 DATE: 01-21-2026



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719

DWG. NO.	DESCRIPTION
800	INDEX - WATER SYSTEM DETAILS
801	5/8" & 3/4" WATER METER INSTALLATION
802	1" WATER METER INSTALLATION
803	1 1/2 " WATER METER INSTALLATION
804	2" WATER METER INSTALLATION
805	LARGE METER AND VAULT INSTALLATION
806	LARGE METER LAYOUT
807	GENERAL NOTES FOR METER INSTALLATION
808	HYDRANT LOCATION DETAIL FOR CURB & GUTTER RESIDENTIAL STREETS
809	HYDRANT LOCATION DETAIL FOR UNCURBED RESIDENTIAL STREETS
810	HYDRANT ASSEMBLY DETAIL
811	UNDERGROUND VALVE BOX
812	3/4" & 1" WATER METER INSTALLATION COPPER SERVICE
813	WATER METER MANIFOLD DETAIL FOR TOWNHOME DEVELOPMENTS
814	WATER METER LAYOUT FOR TOWNHOUSE DEVELOPMENTS WITHOUT LOTS
815	A & V RELEASE VALVE ASSEMBLY 1" OR 2"
816	WATER VALVE MARKER
817	AUTO BLOW OFF FLUSH STATION
818	WATER SAMPLING STATION
819	BACKFLOW PREVENTION ASSEMBLY (1)
820	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY (2)
821	DOUBLE CHECK VALVE ASSEMBLY
822	FIRE LINE VAULT - TYPE 1
825	FM ASSEMBLY (FIRE SERVICE ONLY)
826	ROOT BARRIER SYSTEM

GENERAL NOTES:

1. REFERENCE TO "DEVELOPER WORK" SHALL MEAN AN ENTITY OR PERSON WHO IMPROVES RAW LAND OR REDEVELOPS EXISTING SITES. ALL ENTITIES MUST CONTRACT WITH A UTILITY CONTRACTOR FOR ANY WATER OR WASTEWATER WORK OUTSIDE OF THE PRIVATE PROPERTY LINES.
2. REFERENCE TO "COUNTY WORK" SHALL MEAN ANY WATER OR WASTEWATER SERVICES PERFORMED BY FULTON COUNTY PUBLIC WORKS OR FCPW'S STANDBY CONTRACTORS.
3. REFERENCE TO "PLUMBER WORK" SHALL MEAN ANY WATER OR WASTEWATER SERVICES PERFORMED WITHIN THE BOUNDARIES OF THE PRIVATE PROPERTY.

NOTES:

1. ALL DISTRIBUTION PIPING AND APPURTENANT MATERIALS USED IN THE FULTON COUNTY WATER SYSTEM MUST BE MADE OF DUCTILE IRON AND COMPLY IN RESPECT TO ANS/AWWAA21.111/C111-85 STANDARD SPECIFICATIONS. PLANS THAT DO NOT MEET THE SPECIFICATIONS IN ALL RESPECTS WILL NOT BE ACCEPTED. ALL LINES SHOULD BE CLASS 51 OR GREATER WHEN REQUESTED BY THE COUNTY.
2. ALL WATER LINES SHALL HAVE 3M™ EMS WARNING TAPE 7900 SERIES BURIED 4-FEET BELOW GROUND LEVEL INSTALLED ABOUT THE PIPE OR MINIMUM OF 1-FOOT ABOVE TOP OF PIPE. THIS SHALL INCLUDE WATER SERVICE LINES.

800-S.dwg December 08, 2025 10:44am

FULTON COUNTY STANDARD DETAIL 800
INDEX - WATER SYSTEM DETAILS

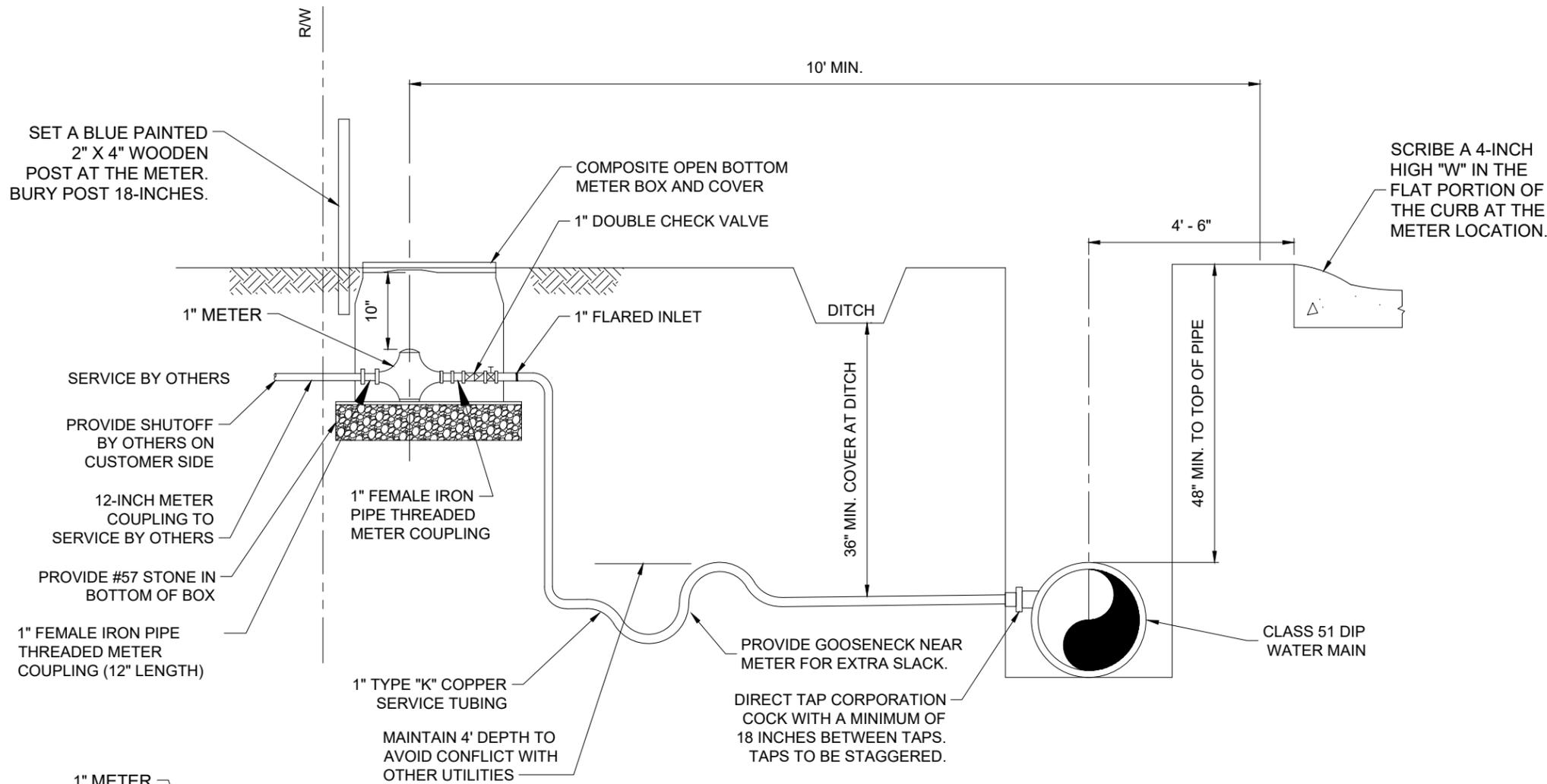
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DATE: 01-21-2026

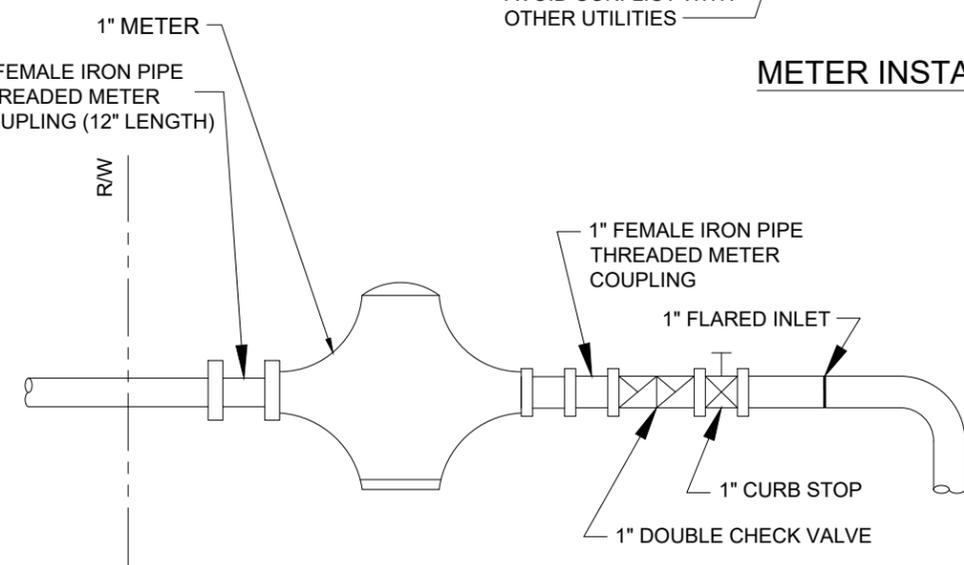


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DRAWING NO.
800



METER INSTALLATION ELEVATION DETAIL
NTS



METER DETAIL
NTS

NOTES:

1. SERVICE LINE SHALL BE CONTINUOUS 1" TYPE "K" COPPER FROM MAIN TO METER WITHOUT ANY COUPLINGS.
2. USE ALL FLARE JOINTS UP TO CURB STOP.
3. INSTALLATION SHALL ALLOW ADEQUATE ROOM TO REMOVE AND/OR REPAIR METER.
4. NEW WATER MAIN SUBJECT TO 250 LB PRESSURE TEST FOR TWO HOURS.
5. EDGE OF METER BOX TO BE WITHIN 6" OF R/W OR ESMT. LINE. BOX TO BE OUTSIDE OF SIDEWALK.
6. PRIVATE SHUT OFF VALVE TO BE LOCATED WITHIN 12 INCHES OF METER BOX.
7. THE BUILDER IS TO PROVIDE A SHUT-OFF VALVE IN A SEPARATE VALVE BOX FOR OWNER'S USE ON THE OWNER'S PROPERTY.
8. MODIFIED POLYETHELENE METER BOX SHALL HAVE NOMINAL DIMENSIONS OF 19-1/2" X 12-3/8" X 18" AND SHALL HAVE A 10,000 LB. LOAD RATING WITH A SINGLE MOUSE HOLE IN EACH END. COVER FOR METER BOX SHALL BE MODIFIED POLYETHELENE WITH "WATER METER" IN MINIMUM 1" HIGH LETTERS. LIDS SHALL HAVE OBLONG KNOCK OUT AND 1/2-INCH RECESS FOR METER ANTENNAE WITH A FERROUS MAGNET IN THE LID AND A PLASTIC LOCKING MECHANISM. THE COVERS SHALL HAVE A NON-SKID SURFACE. METER BOX AND LID SHALL BE DFW METER BOX MODEL 1219-18-1MKF DEEP. LID ONLY SHALL BE MODEL 1219-1-MKF DEEP.
9. LID FOR STRETCH YOKE BOX SHALL BE DFW MODEL 6514-1-MKF DEEP WITH OBLONG KNOCK OUT AND 1/2-INCH RECESS FOR METER ANTENNAE WITH A FERROUS MAGNET IN THE LID AND A PLASTIC LOCKING MECHANISM.
10. SHOULDERS ARE TO BE GRADED TO FINISHED GRADE PRIOR TO SETTING THE METER BOXES.
11. SERVICE SHALL HAVE 10" MINIMUM COVER AT METER AND 48" MINIMUM COVER BETWEEN MAIN AND METER.
12. FOR PERMITTED DEVELOPEMENT PROJECTS, SERVICE TAPS, CORPORATION STOP, SERVICE LINE, CURB STOP AND METER BOX SHALL BE FURNISHED AND INSTALLED BY DEVELOPMENT CONTRACTOR. DUAL CHECK VALVE, METER COUPLINGS AND METERS SHALL BE FURNISHED AND INSTALL BY FULTON COUNTY UPON RECEIPT OF APPLICATION FOR SERVICE AND PAYMENT OF APPROPRIATE FEES BY BUILDER / PROPERTY OWNER. FOR NEW INDIVIDUAL SERVICE ON EXISTING MAINS, FULTON COUNTY WILL FURNISH AND INSTALL ALL OF THE ABOVE UPON RECEIPT OF APPLICATION FOR SERVICE AND PAYMENT OF APPROPRIATE FEES BY BUILDER / PROPERTY OWNER.
13. ALL SEWER LINES, WATER LINES, REUSE LINES, AND FORCE MAIN LINES SHALL HAVE 3M™ EMS WARNING TAPE 7900 SERIES BURIED 4-FEET BELOW GROUND LEVEL INSTALLED ABOUT THE PIPE OR MINIMUM OF 1-FOOT ABOVE TOP OF PIPE. THIS SHALL INCLUDE SEWER LATERALS AND WATER SERVICE LINES.

FULTON COUNTY STANDARD DETAIL 802
1" WATER METER INSTALLATION

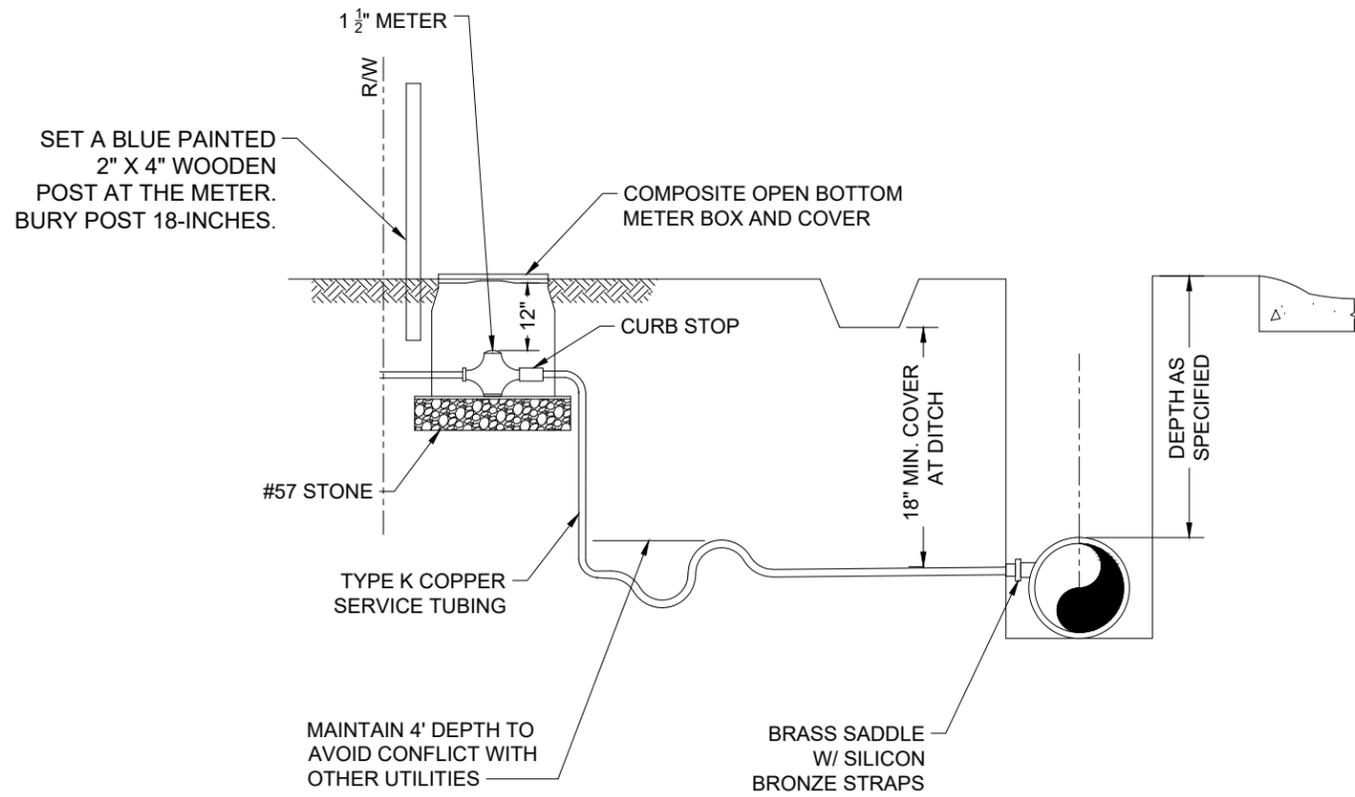
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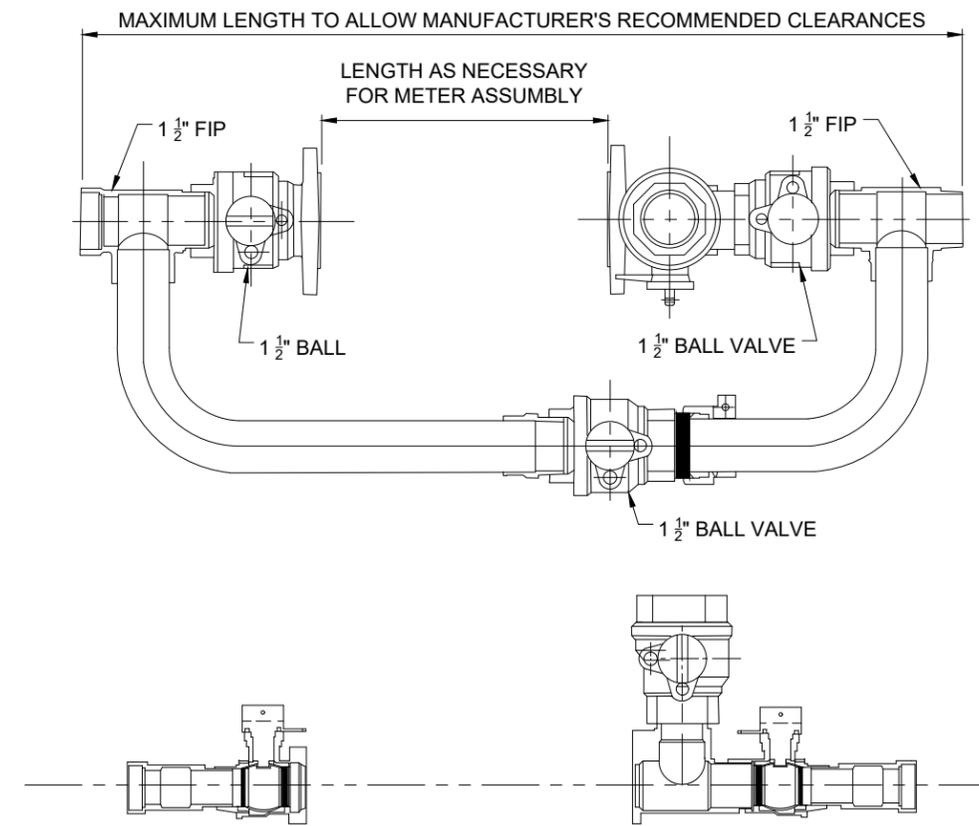
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METER INSTALLATION ELEVATION DETAIL
NTS

NOTES:

1. SERVICE LINE SHALL BE 1 1/2 " FROM THE MAIN TO THE METER
2. USE ALL COMPRESSION JOINTS UP TO CURB STOP
3. INSTALLATION SHALL ALLOW ADEQUATE ROOM TO REMOVE AND/OR REPAIR METER
4. METER BOX SHALL BE APPROXIMATELY 24" X 36" X 18"
5. TYPE K COPPER SERVICE LINE MUST BE CONTINUOUS FROM METER TO MAIN.
6. SERVICE SHALL HAVE 18 IN. MINIMUM COVER AT METER AND 30 IN. MINIMUM COVER BETWEEN MAIN AND METER.
7. PRIVATE SHUT OFF VALVE TO BE LOCATED WITHIN 12 INCHES OF METER BOX.
8. FOR PERMITTED DEVELOPEMENT PROJECTS, SERVICE TAPS, CORPORATION STOP, SERVICE LINE, CURB STOP AND METER BOX SHALL BE FURNISHED AND INSTALLED BY DEVELOPMENT CONTRACTOR. DUAL CHECK VALVE, METER COUPLINGS AND METERS SHALL BE FURNISHED AND INSTALL BY FULTON COUNTY UPON RECEIPT OF APPLICATION FOR SERVICE AND PAYMENT OF APPROPRIATE FEES BY BUILDER / PROPERTY OWNER. FOR NEW INDIVIDUAL SERVICE ON EXISTING MAINS, FULTON COUNTY WILL FURNISH AND INSTALL ALL OF THE ABOVE UPON RECEIPT OF APPLICATION FOR SERVICE AND PAYMENT OF APPROPRIATE FEES BY BUILDER / PROPERTY OWNER.
9. ALL SEWER LINES, WATER LINES, REUSE LINES, AND FORCE MAIN LINES SHALL HAVE 3M™ EMS WARNING TAPE 7900 SERIES BURIED 4-FOOT BELOW GROUND LEVEL INSTALLED ABOUT THE PIPE OR MINIMUM OF 1-FOOT ABOVE TOP OF PIPE. THIS SHALL INCLUDE SEWER LATERALS AND WATER SERVICE LINES.



BYPASS DETAIL
NTS

803-S.dwg December 08, 2025 10:44am

FULTON COUNTY STANDARD DETAIL 803

1-1/2" WATER METER INSTALLATION

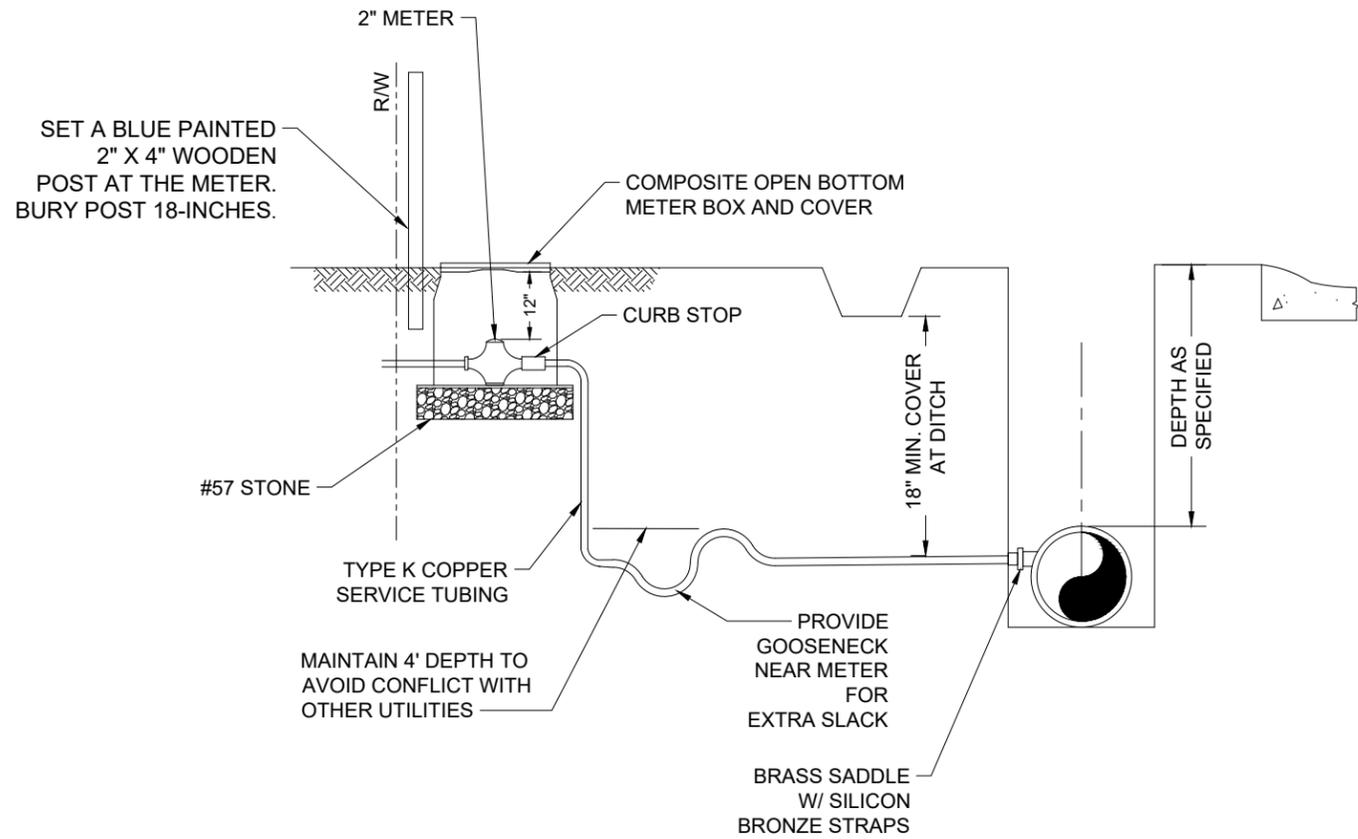
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DGS/DRN/CHKD: MB/EB/ML
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 DATE: 01-21-2026



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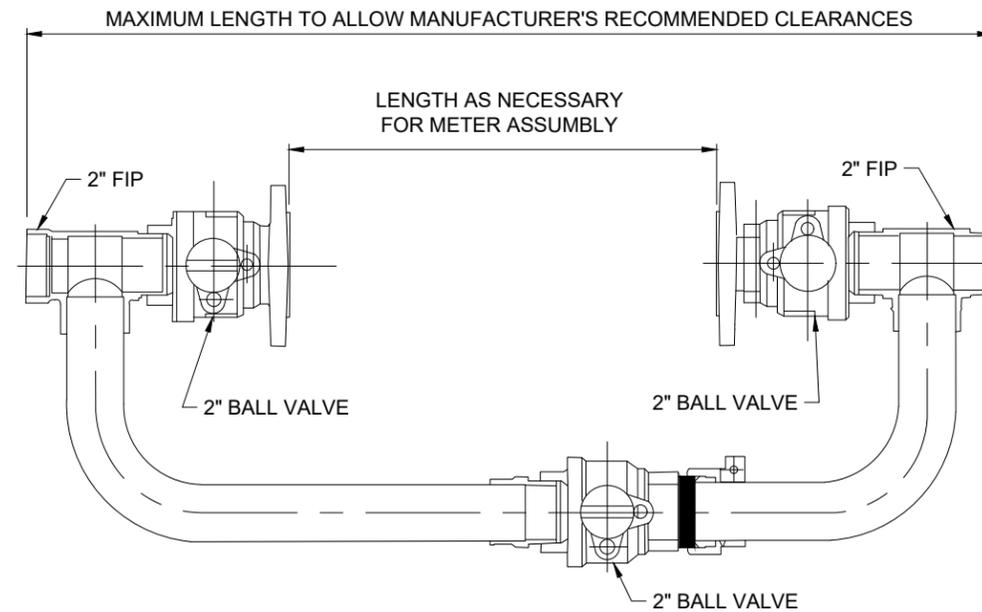
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METER INSTALLATION ELEVATION DETAIL
NTS

NOTES:

1. SERVICE LINE SHALL BE 2" DIAMETER FROM THE MAIN TO THE METER
2. USE ALL COMPRESSION JOINTS UP TO CURB STOP.
3. INSTALLATION SHALL ALLOW ADEQUATE ROOM TO REMOVE AND/OR REPAIR METER
4. METER BOX SHALL BE APPROXIMATELY 24" X 36" X 18"
5. TYPE K COPPER SERVICE LINE MUST BE CONTINUOUS FROM METER TO MAIN.
6. SERVICE SHALL HAVE 18 IN. MINIMUM COVER AT METER AND 30 IN. MINIMUM COVER BETWEEN MAIN AND METER.
7. FOR PERMITTED DEVELOPEMENT PROJECTS, SERVICE TAPS, CORPORATION STOP, SERVICE LINE, SURB STOP AND METER BOX SHALL BE FURNISHED AND INSTALLED BY DEVELOPMENT CONTRACTOR. DUAL CHECK VALVE, METER COUPLINGS AND METERS SHALL BE FURNISHED AND INSTALL BY FULTON COUNTY UPON RECEIPT OF APPLICATION FOR SERVICE AND PAYMENT OF APPROPRIATE FEES BY BUILDER / PROPERTY OWNER. FOR NEW INDIVIDUAL SERVICE ON EXISTING MAINS, FULTON COUNTY WILL FURNISH AND INSTALL ALL OF THE ABOVE UPON RECEIPT OF APPLICATION FOR SERVICE AND PAYMENT OF APPROPRIATE FEES BY BUILDER / PROPERTY OWNER.
8. PRIVATE SHUT OFF VALVE TO BE LOCATED WITHIN 12 INCHES OF METER BOX.
9. ALL SEWER LINES, WATER LINES, REUSE LINES, AND FORCE MAIN LINES SHALL HAVE 3M™ EMS WARNING TAPE 7900 SERIES BURIED 4-FEET BELOW GROUND LEVEL INSTALLED ABOUT THE PIPE OR MINIMUM OF 1-FOOT ABOVE TOP OF PIPE. THIS SHALL INCLUDE SEWER LATERALS AND WATER SERVICE LINES.



BYPASS DETAIL
NTS

FULTON COUNTY STANDARD DETAIL 804
2" WATER METER INSTALLATION

DATE	REVISIONS	DATE	REVISIONS

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DATE: 01-21-2026

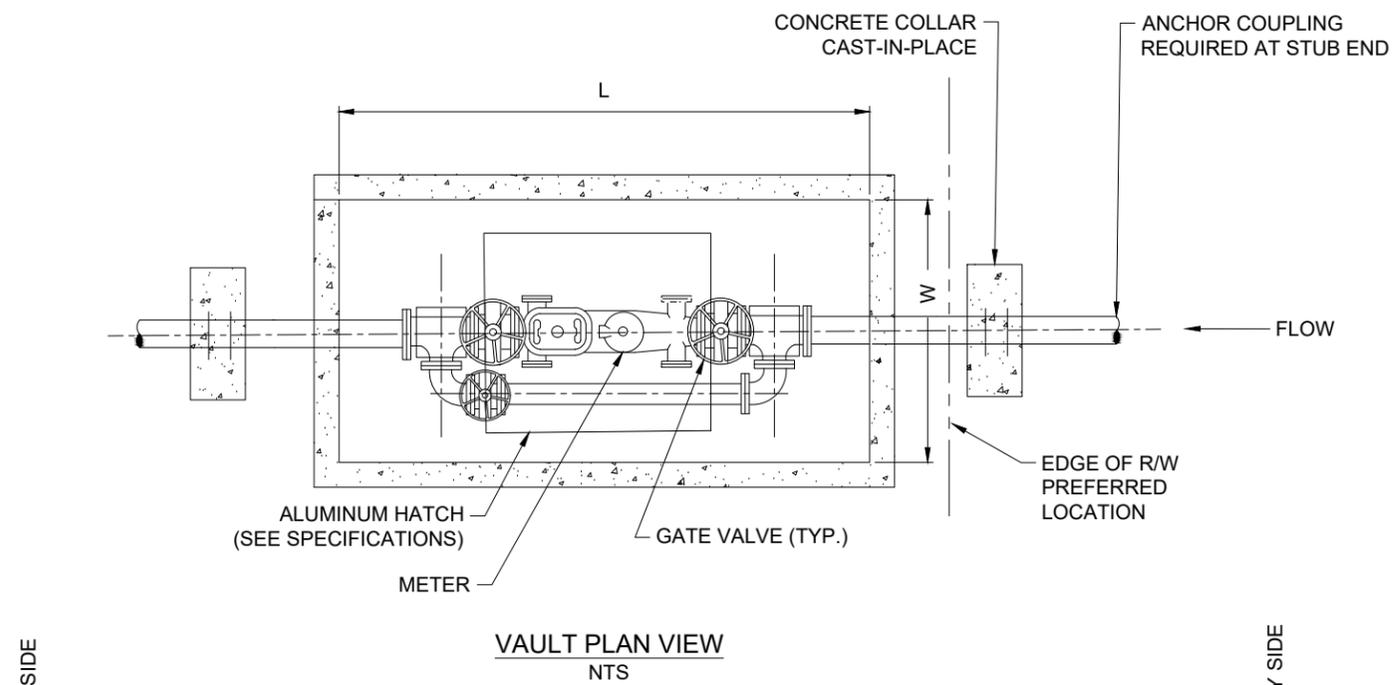


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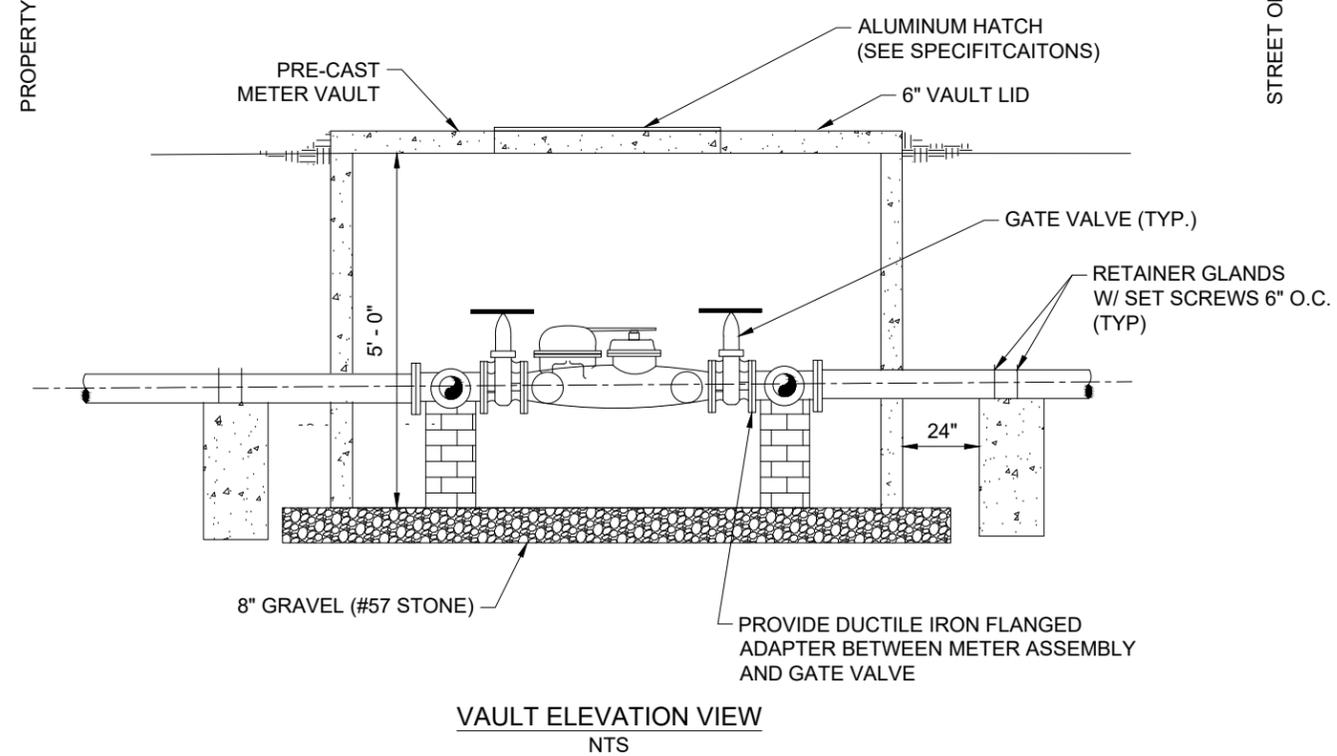
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PROPERTY OWNER SIDE

STREET OR SUPPLY SIDE



**TABLE 805-1
VAULT AND HATCH SIZING**

METER SIZE	VAULT			HATCH SIZE
	L	W	D	
3"	9'	5'	6'	3'6" X 3'6"
4"	9'	5'	6'	3'6" X 3'6"
6"	12'	6'	6'	4' X 6'
8"	12'	6'	6'	4' X 6'

- NOTES:**
- BOXES EXCEEDING 5' IN DEPTH MUST BE APPROVED BY FULTON COUNTY.
 - WHEN METER BOX CANNOT BE LOCATED ENTIRELY ON R/W, A PERMANENT EASEMENT SHALL BE OBTAINED TO PREVENT FENCES OR OTHER OBSTRUCTIONS FROM BEING ERECTED AROUND THE METER BOX.
 - COVER OPENING TO BE PLACED NEAREST THE METER REGISTER.
 - THE METER MUST BE INSTALLED WITH AT LEAST 8 DIAMETERS OF STRAIGHT PIPE SAME SIZE AS METER ON THE INLET SIDE TO PERMIT ON-SITE MAINTENANCE AND CALIBRATION, A STRAINER MAY BE PROVIDED IN LIEU OF THE STRAIGHT PIPE IN ACCORDANCE WITH THE METER MANUFACTURER'S RECOMMENDATIONS. AN INLET AND OUTLET GATE VALVE WITH BYPASS LIKE ARE REQUIRED (SEE ILLUSTRATION).
 - THESE BOXES ARE NOT TO BE INSTALLED IN TRAFFIC AREAS WITHOUT PRIOR PERMISSION FROM FULTON COUNTY.
 - ALL VALVES AND FITTINGS INSIDE THE VAULT SHALL BE FLANGED.
 - ALL FITTINGS OUTSIDE THE VAULT SHALL PUSH-ON JOINT WITH AMERICAN 'FAST-GRIP' GASKETS OR APPROVED EQUAL.
 - ALL METERS SHALL COME EQUIPPED WITH A TOUCHREAD OR TOUCHLESS SENSOR COMPATIBLE WITH FULTON COUNTY'S METER READING EQUIPMENT.
 - THIS DETAIL ALSO AUTHORIZED FOR INSTALLATION OF 3" AND LARGER RE-USE METERS.
 - HATCH SHALL BE 4' X 6', DOUBLE LEAF, FLUSH MOUNT, 1/4" DIAMOND PLATE, ALUMINUM DOORS LOCKABLE WITH A 5/8" ROD. HATCH SHALL BE BILCO # PDCM-3 OR PRE-APPROVED EQUAL FOR 6" & 8" METERS.
 - HATCH SHALL BE 3'6" X 3'6" SINGLE LEAF FLUSH MOUNT 1/4" DIAMOND PLATE ALUMINUM DOOR LOCKABLE WITH 5/8" ROD. HATCH SHALL BE B.LCO#PCM-5 OR PRE-APPROVED EQUAL FOR 3" X 4" METERS.
 - FOR PERMITTED DEVELOPMENT PROJECTS WITH THE WATER SYSTEM MAIN ON THE PROPERTY FRONTAGE (SHORT SIDE), FULTON COUNTY WILL FURNISH AND INSTALL TAPPING SLEEVE AND VALVE, SERVICE LINE TO VALVE, VAULT, METER, INTERNAL VALVES AND PIPING TO 3 FEET OUTSIDE OF VAULT UPON RECEIPT OF APPLICATION FOR SERVICE AND PAYMENT OF APPROPRIATE FEES BY BUILDER / PROPERTY OWNER. FOR DEVELOPMENT PROJECTS WHERE THE WATER SYSTEM MAIN IS NOT ON THE PROPERTY FRONTAGE, THE DEVELOPMENT CONTRACTOR WILL BE RESPONSIBLE FOR MAKING THE TAP (IF REQUIRED) AND BRINGING THE WATER SYSTEM MAIN TO THE PROPERTY FRONTAGE LOCATION WHERE THE METER VAULT IS AGREED WITH FULTON COUNTY TO BE INSTALLED.
 - FOR DEVELOPEMENT REQUIRING SEPARATE DOMESTIC AND / OR IRRIGATION METERS TAPS SHALL BE MADE IN THE WATER SYSTEM MAIN BEFORE THE LARGE METER WITHIN THE EASEMENT AND THE METERS SET AT THE EASEMENT EDGE (SEE 806).
 - VAULT DIMENSION ARE INTERIOR. ADD 1 FOOT TO HORIZONTAL LENGTH AND WIDTH TO DETERMINE DIMENSION FOR EASEMENT.

**FULTON COUNTY STANDARD DETAIL 805
LARGE METER AND VAULT INSTALLATION**

DATE	REVISIONS	DATE	REVISIONS

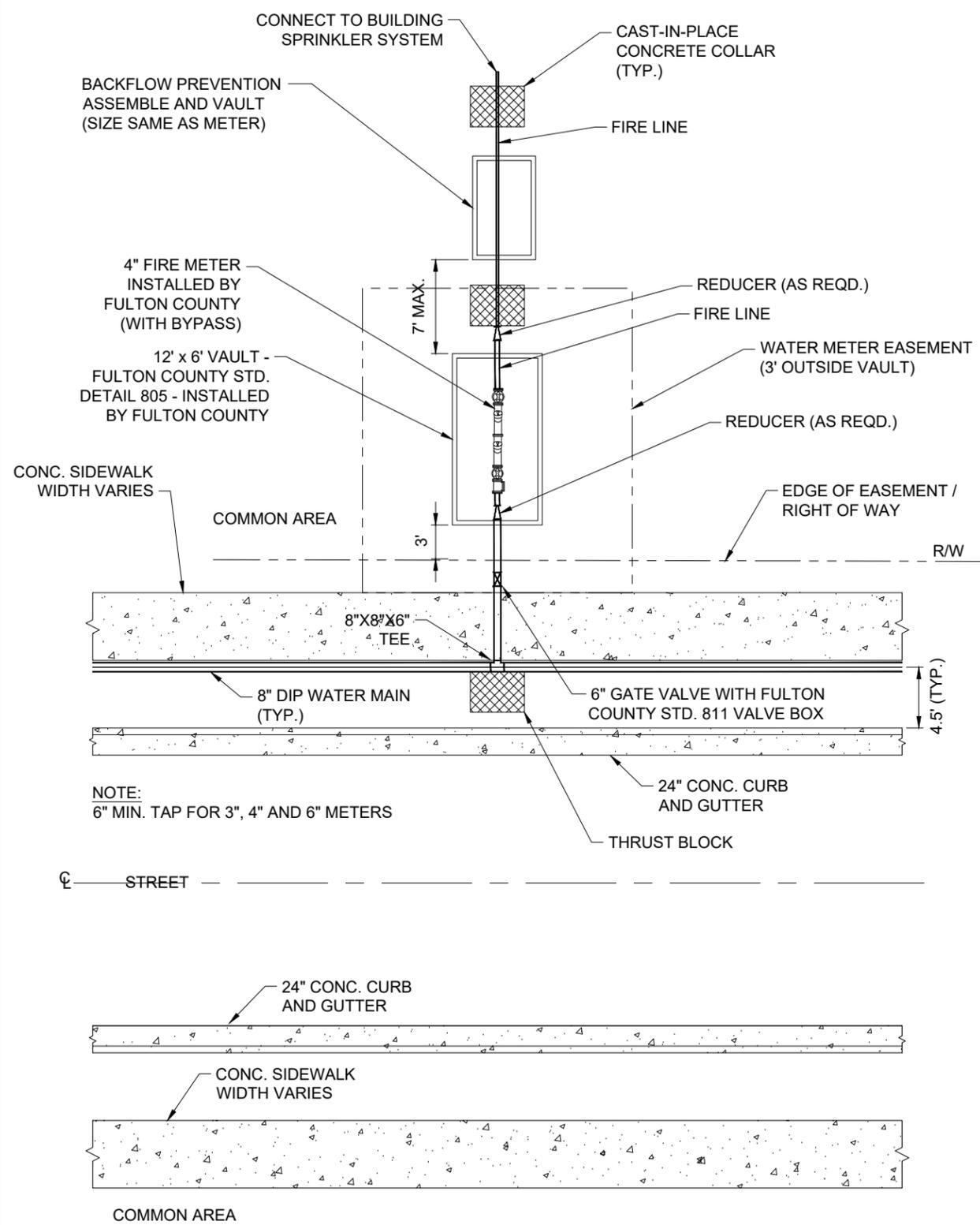
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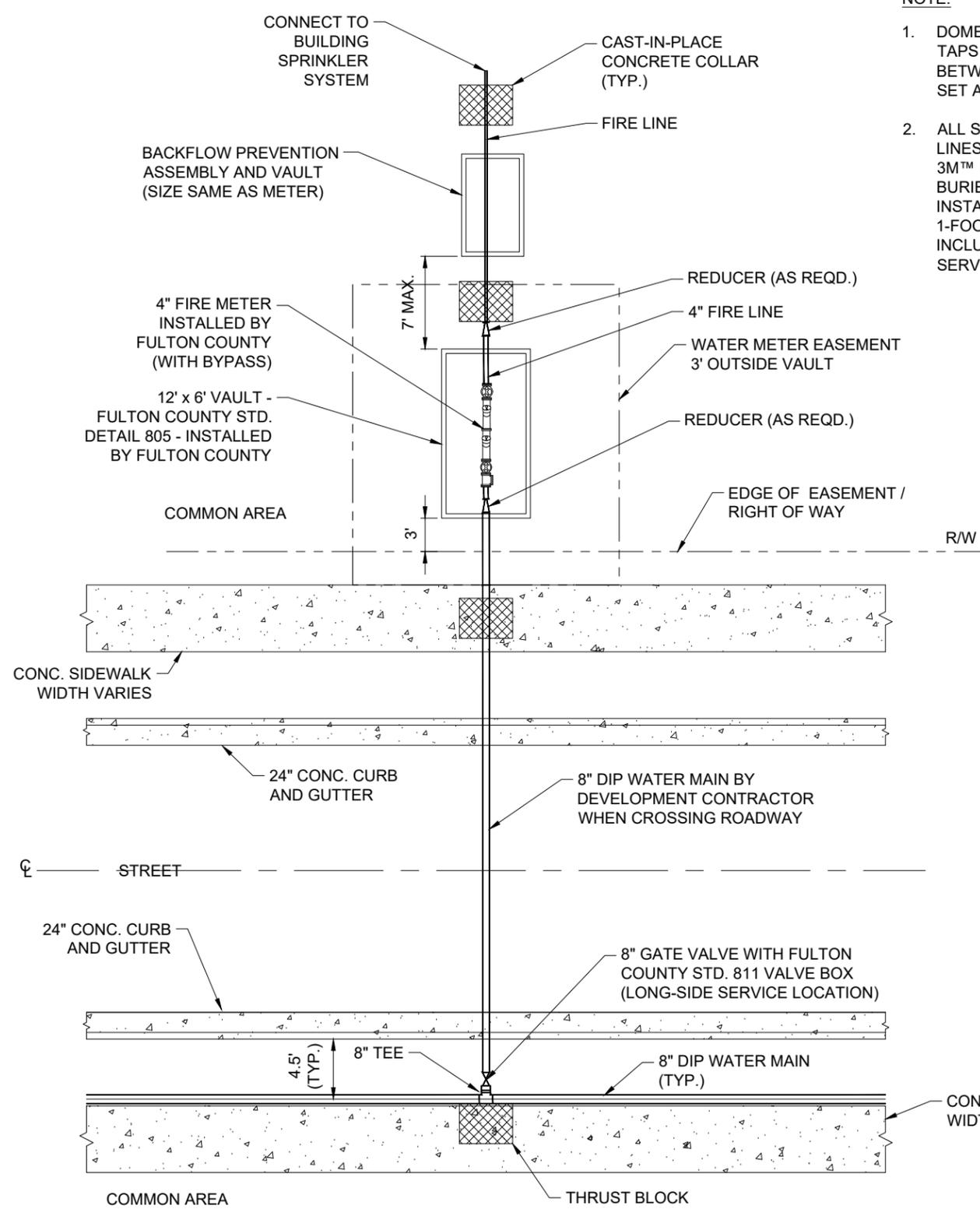
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**LARGE METER
SHORTSIDE SERVICE
N.T.S.**



**LARGE METER
LONGSIDE SERVICE
N.T.S.**

- NOTE:**
1. DOMESTIC AND / OR IRRIGATION SERVICE TAPS SHALL BE MADE BY FULTON COUNTY BETWEEN VAULT AND R/W WITH METERS SET AT EDGE OF EASEMENT.
 2. ALL SEWER LINES, WATER LINES, REUSE LINES, AND FORCE MAIN LINES SHALL HAVE 3M™ EMS WARNING TAPE 7900 SERIES BURIED 4-FEET BELOW GROUND LEVEL INSTALLED ABOUT THE PIPE OR MINIMUM OF 1-FOOT ABOVE TOP OF PIPE. THIS SHALL INCLUDE SEWER LATERALS AND WATER SERVICE LINES.

**FULTON COUNTY STANDARD DETAIL 806
LARGE WATER METER LAYOUT**

DATE	REVISIONS	DATE	REVISIONS

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806

NOTES:

1. FOR METERS 3 INCHES AND LARGER, VAULTS MAY BE ROTATED 90 DEGREES TO MINIMIZE PROJECTION INTO PROPERTY.
2. ALL METERS ON PRIVATE PROPERTY SHALL HAVE AN ACCESS AND MAINTENANCE EASEMENT THAT EXTENDS THREE FEET FROM EACH SIDE OF THE METER BOX / VAULT, EXCEPT BOXES FOR METERS 2 INCHES AND SMALLER MAY BE PLACED 6 INCHES FROM THE PROPERTY / RIGHT OF WAY LINE.
3. FOR SINGLE SERVICE DEVELOPMENT (COMMERCIAL, APARTMENTS ETC.) TAP, SERVICE LINE, METER SIZE, AND BACKFLOW DEVICE SHALL BE THE SAME.
4. FOR LONG SIDE 1 INCH SERVICE LINES, SERVICE LINES SHALL BE INSTALL IN 6 INCH PVC CONDUIT. TWO 1 INCH SERVICE LINES MAY BE INSTALLED IN ONE CONDUIT.
5. TAP, METER, AND BACKFLOW PROTECTION DEVICE MUST MATCH MAIN SIZE IN DEVELOPMENT.
6. IN THE EVENT CONDUIT IS NOT PRESENT ON LONG SIDE LOT, BORING SHALL BE PERMITTED. WHEN CONDUIT DOES EXIST, 1-IN. PIPE SHALL BE INSERTED THROUGH 6-IN. PVC CASING TO COMPLETE THE INSTALLATION FROM THE MAIN TO THE METER. 2-IN. HDPE CASING TO BE USED WHEN BORING.
7. APPROVAL MUST BE OBTAINED FROM THE CITY IN WHICH THE PROJECT IS LOCATED PRIOR TO ROAD CUT. THE PUBLIC WORKS WATER SERVICES DIVISION DOES NOT HAVE THE AUTHORITY TO APPROVE ROAD CUTS.
8. 48" COVER (MIN.) FROM SURFACE TO TOP OF SERVICE PIPE APPLIES TO COUNTY MAINTAINED ROADS. FOR STATE ROADS SAID MINIMUM CLEARANCE SHALL BE 54".
9. ALL CUTS IN PAVEMENT SHALL BE REPAIRED IN ACCORDANCE WITH EITHER GA..D.O.T OR FULTON CO. STANDARDS. CONTRACTOR SHALL BE RESPONSABLE FOR PROPER DITCH COMPACTION, CUT BACK OF DITCH SIDES AND PAVING OF THE REQUIRED CONCRETE SUB-BASE AND PLATING THE DITCH TO ALLOW TRAFFIC FLOW WHILE CONCRETE IS SETTING UP. STEEL TRAFFIC PLATES WILL COVER POURED CONCRETE FOR A MINIMUM OF 24 HOURS.
10. METERS ARE TO BE SET DIRECTLY OPPOSITE AND AT RIGHT ANGLES TO TAP ON MAIN. THE METER SHALL NOT BE OFFSET Laterally FROM TAP ON WATER MAIN.

807-S.dwg December 08, 2025 10:44am

**FULTON COUNTY STANDARD DETAIL 807
GENERAL NOTES FOR METER INSTALLATION**

DATE	REVISIONS	DATE	REVISIONS

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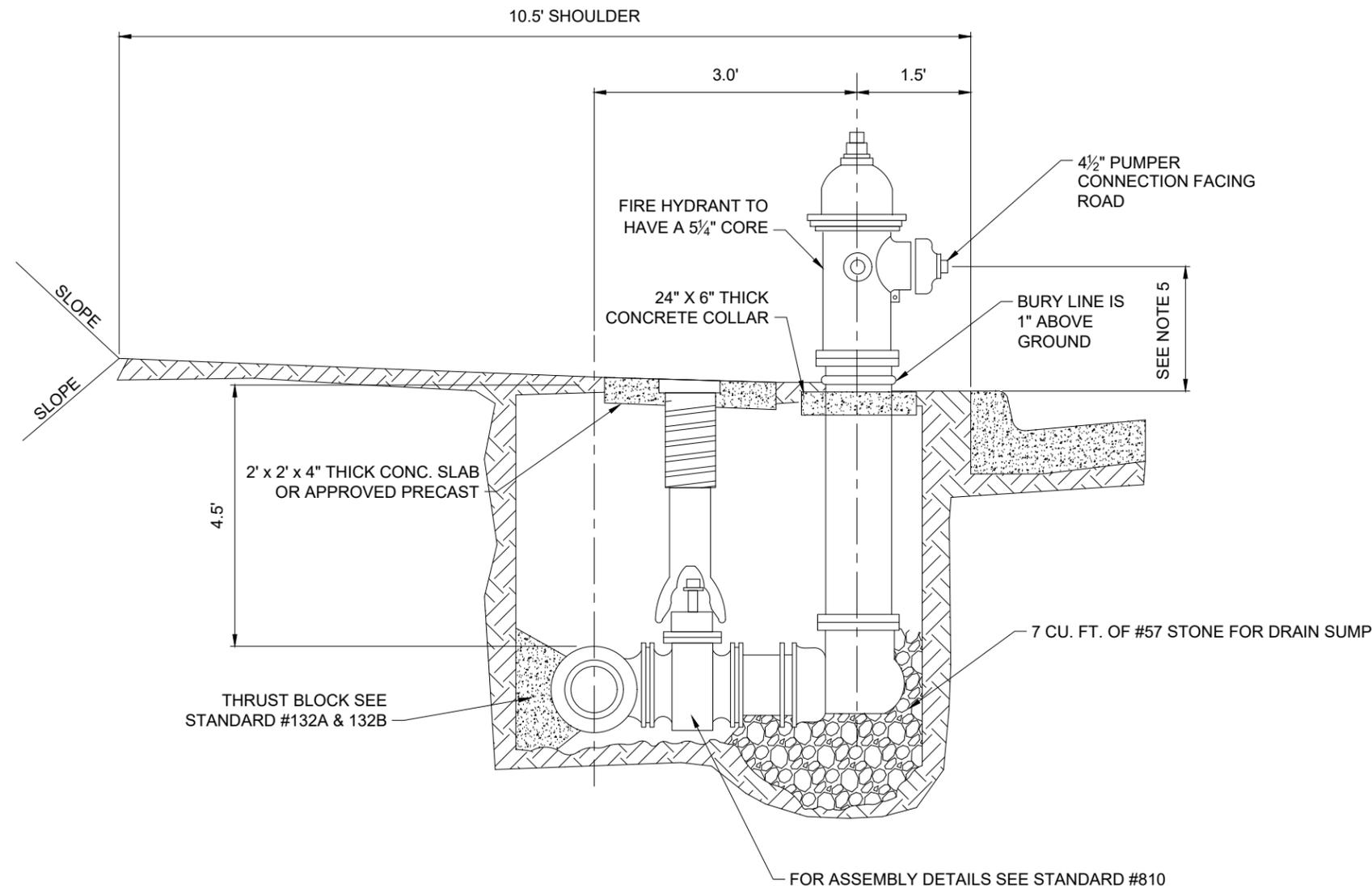


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807

NOTES:

1. SEE STANDARD DWG. 809 FOR UNCURBED STREET.
2. ALL VALVES MUST BE RATED AT WORKING PRESSURE OF 200 PSI AND TESTED AT A PRESSURE OF 250 PSI. ALL FIRE HYDRANTS MUST BE ACCOMPANIED BY A MANUFACTURER'S CERTIFICATE THAT STATES EACH HYDRANT HAS BEEN TESTED ACCORDING TO THE LATEST REVISION OF AWWA SPECIFICATION C502.
3. CONCRETE STRENGTH TEST REQUIRED FOR ALL POURED IN-PLACE CONCRETE.
4. PAINT BONNET SILVER FOR HYDRANTS SET ON 10-INCH AND SMALLER WATER LINES; YELLOW FOR HYDRANTS SET ON 12-INCH WATER LINES; AND GREEN FOR HYDRANTS SET ON 16-INCH OR GREATER WATER LINES. REPAINT HYDRANT AT END OF MAINTENANCE.
5. MINIMUM 18 INCHES BETWEEN TOP OF CURB AND CENTER OF CONNECTION. MAXIMUM OF 21 INCHES.



HYDRANT LOCATION DETAIL
N.T.S.

FULTON COUNTY STANDARD DETAIL 808

HYDRANT LOCATION DETAIL FOR
CURB & GUTTER RESIDENTIAL STREETS

DATE	REVISIONS	DATE	REVISIONS

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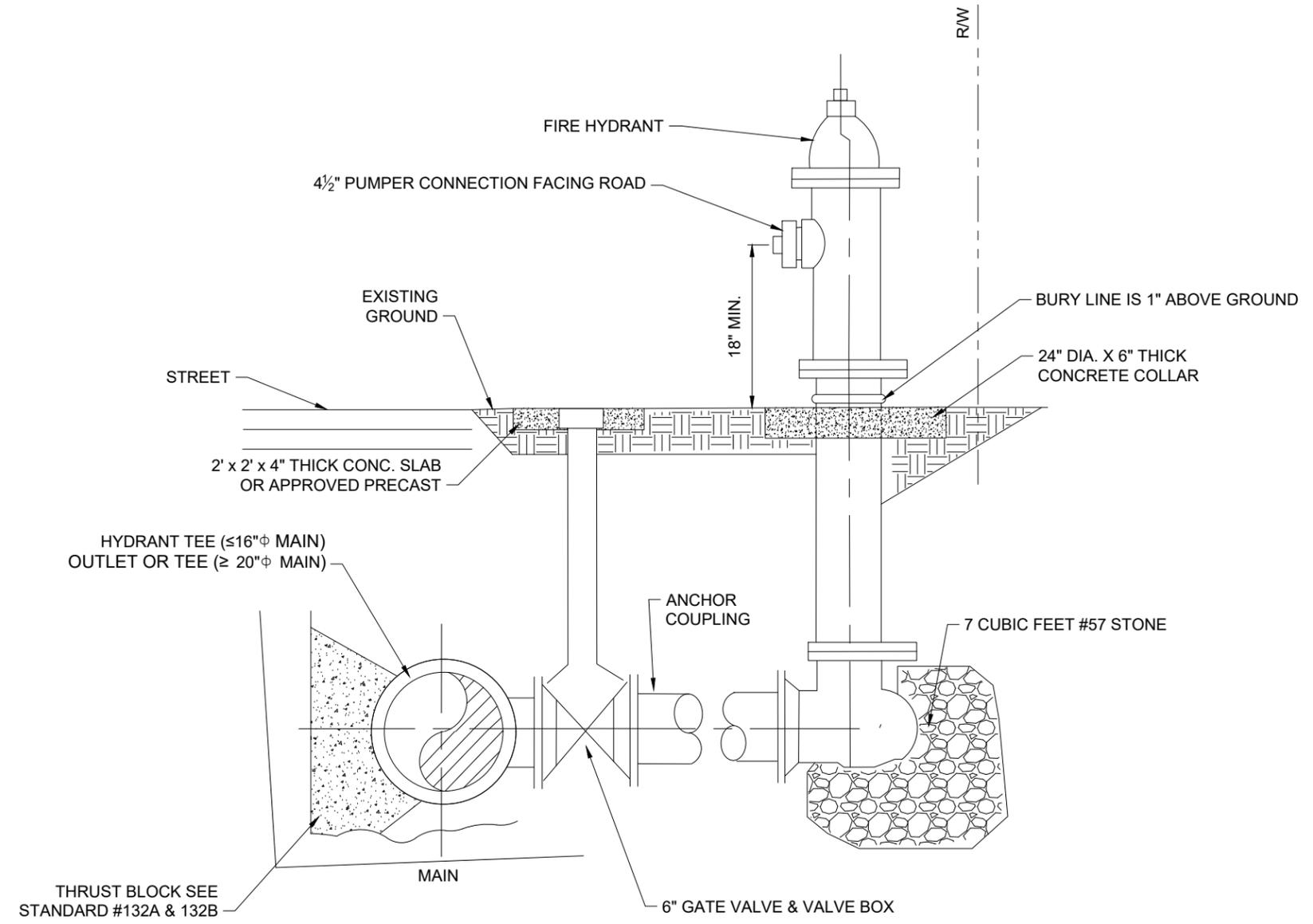


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808

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HYDRANT LOCATION DETAIL
NTS

NOTES:

1. FIRE HYDRANTS CONNECTED TO 12-INCH AND LARGER WATER MAINS SHALL BE FURNISHED WITH LOCKING HYDRANT SECURITY CAPS. CAPS SHALL BE PROVIDED ON EACH HOSE AND PUMPER NOZZLE AND INCORPORATE A "FREE SPINNING" DESIGN THAT PROVIDES SECURITY AGAINST UNAUTHORIZED INTRUSION INTO THE FIRE HYDRANT, OR WATER THEFT FROM THE HYDRANT. WHEN SECURED, THE CAP SHALL SPIN FREELY UNTIL UNLOCKED AND REMOVED THROUGH THE USE OF A WRENCH. WHEN UNLOCKED, THE CAP SHALL OPEN IN A MANNER SIMILAR TO A STANDARD CAP. CAPS SHALL BE SIMILAR IN APPEARANCE TO STANDARD CAPS AND SHALL USE A CENTER PLACED LOCKING MECHANISM. THE LOCKING MECHANISM SHALL BE HARDENED STAINLESS STEEL AND SHALL BE PROTECTED FROM THE ELEMENTS. CAPS USING MAGNETIC LOCKS ARE UNACCEPTABLE. WRENCHES SHALL SHIP DIRECT TO OWNER.
2. MINIMUM OF 18 INCHES FROM GROUND TO CENTER OF CONNECTION. MAXIMUM OF 21 INCHES.
3. ALL VALVES MUST BE RATED AT WORKING PRESSURE OF 200 PSI AND TESTED AT A PRESSURE OF 250 PSI. ALL FIRE HYDRANTS MUST BE ACCOMPANIED BY A MANUFACTURER'S CERTIFICATE THAT STATES EACH HYDRANT HAS BEEN TESTED ACCORDING TO THE LATEST REVISION OF AWWA SPECIFICATION C502.
4. CONCRETE STRENGTH TEST REQUIRED FOR ALL POURED IN-PLACE CONCRETE.
5. PAINT BONNET SILVER FOR HYDRANTS SET ON 10-INCH AND SMALLER WATER LINES; YELLOW FOR HYDRANTS SET ON 12-INCH WATER LINES; AND GREEN FOR HYDRANTS SET ON 16-INCH OR GREATER WATER LINES. REPAINT HYDRANT AT END OF MAINTENANCE.
6. FIRE HYDRANT TO HAVE A 5-1/4" CORE.
7. FOR ASSEMBLY DETAILS SEE STANDARD DWG. 810.

FULTON COUNTY STANDARD DETAIL 809

HYDRANT LOCATION DETAIL FOR UNCURBED RESIDENTIAL STREETS

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
 APPROVED: TM
 DATE: 01-21-2026

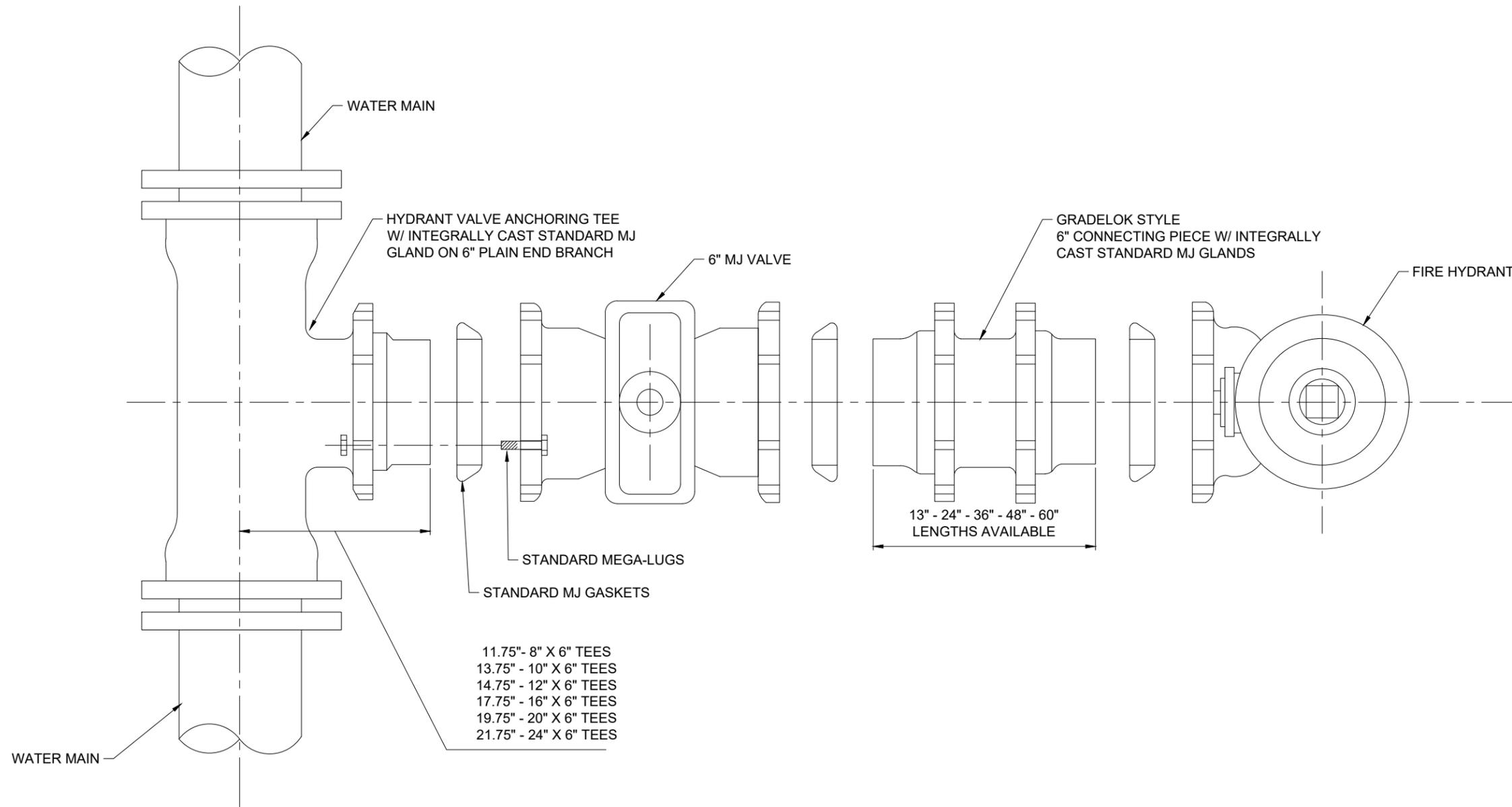


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DRAWING NO.
809

NOTES:

1. SEE ANCHOR RODDING DETAIL #818. GRADE-LOCS CAN BE USED TO ADJUST HYDRANTS TO PROPER BURY DEPTH.



HYDRANT ASSEMBLY DETAIL
NTS

FULTON COUNTY STANDARD DETAIL 810

HYDRANT ASSEMBLY DETAIL

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML

APPROVED: TM

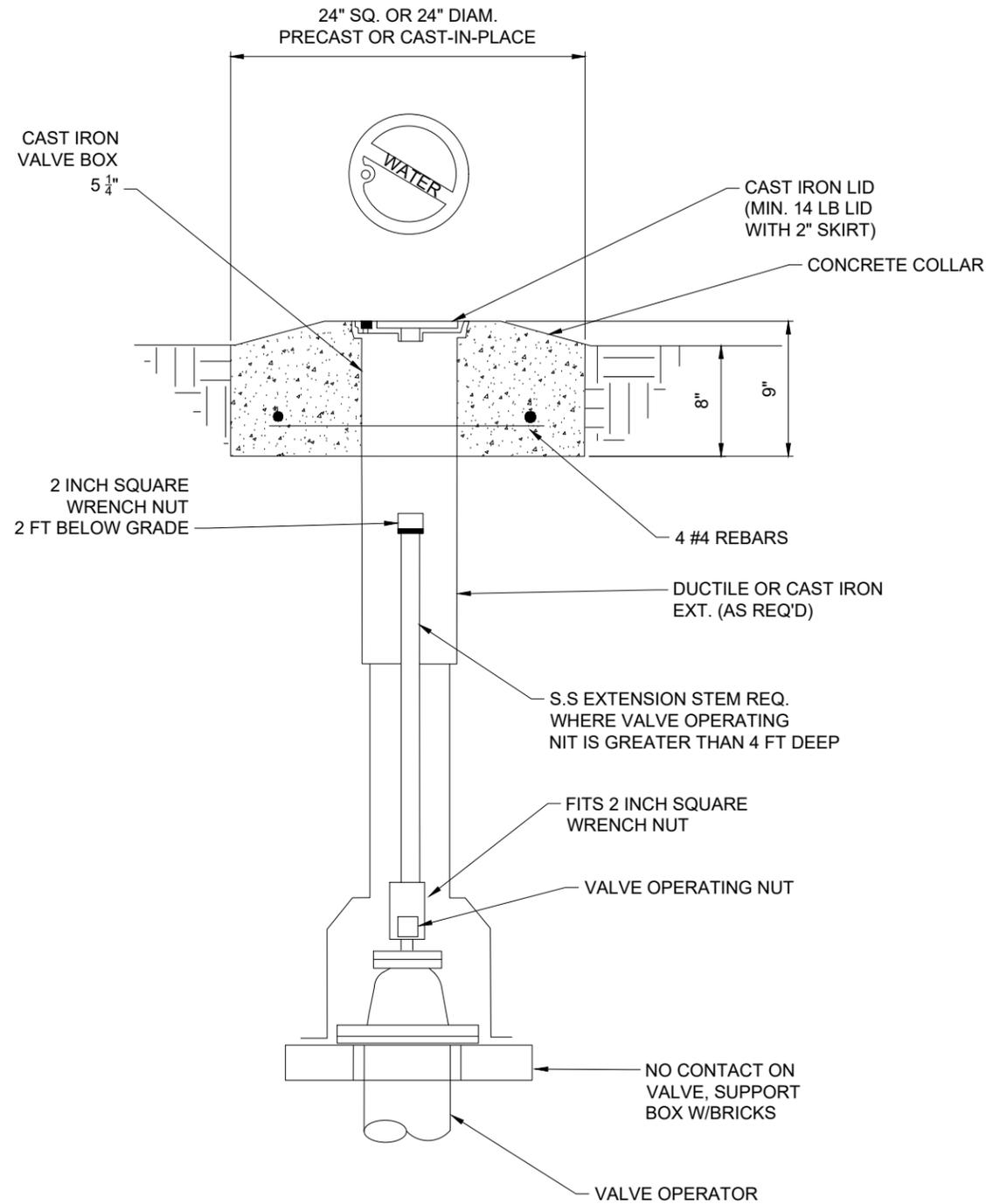
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810



811-S.dwg December 08, 2025 10:45am

FULTON COUNTY STANDARD DETAIL 811
UNDERGROUND VALVE BOX

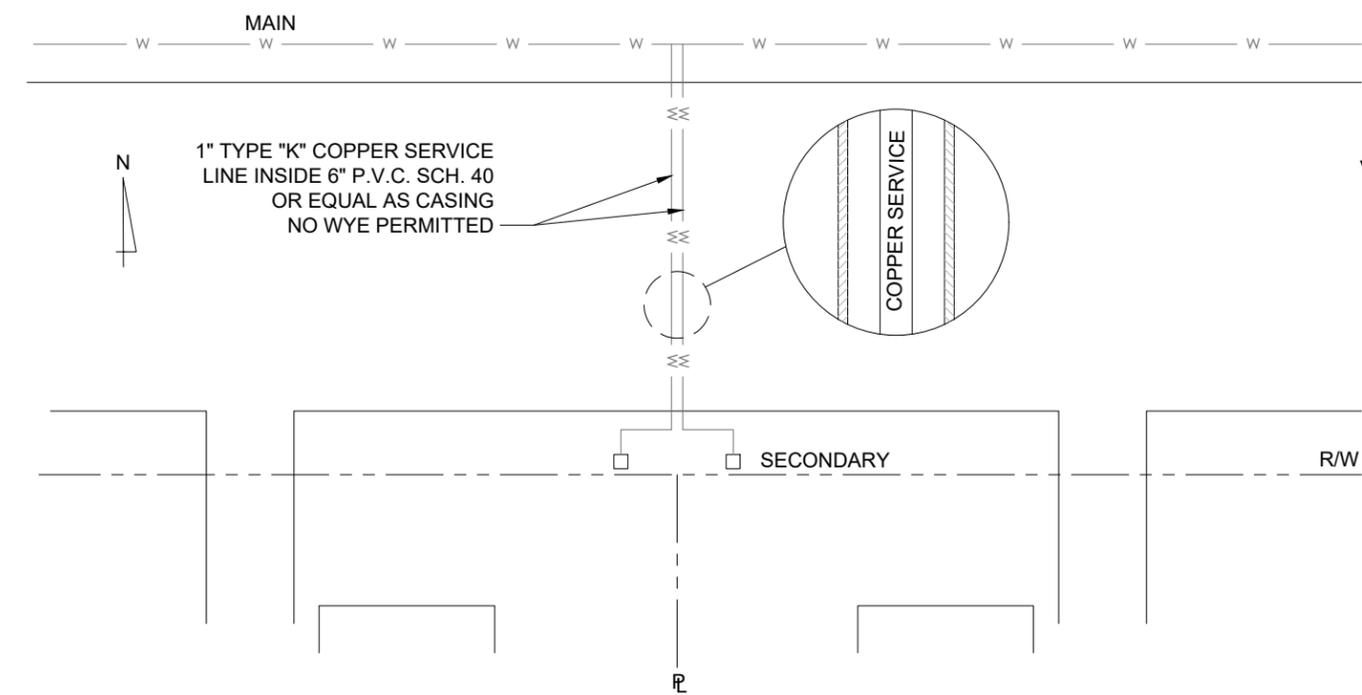
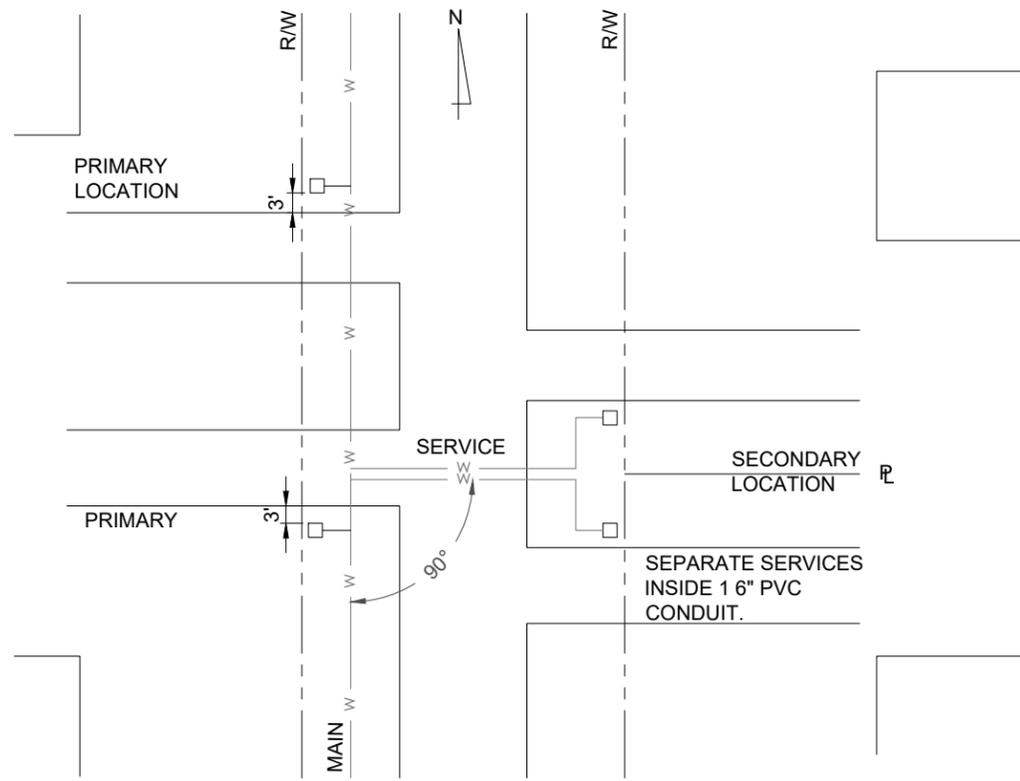
DATE	REVISIONS	DATE	REVISIONS

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DATE: 01-21-2026



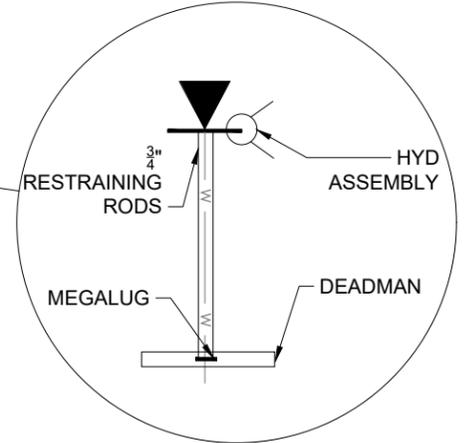
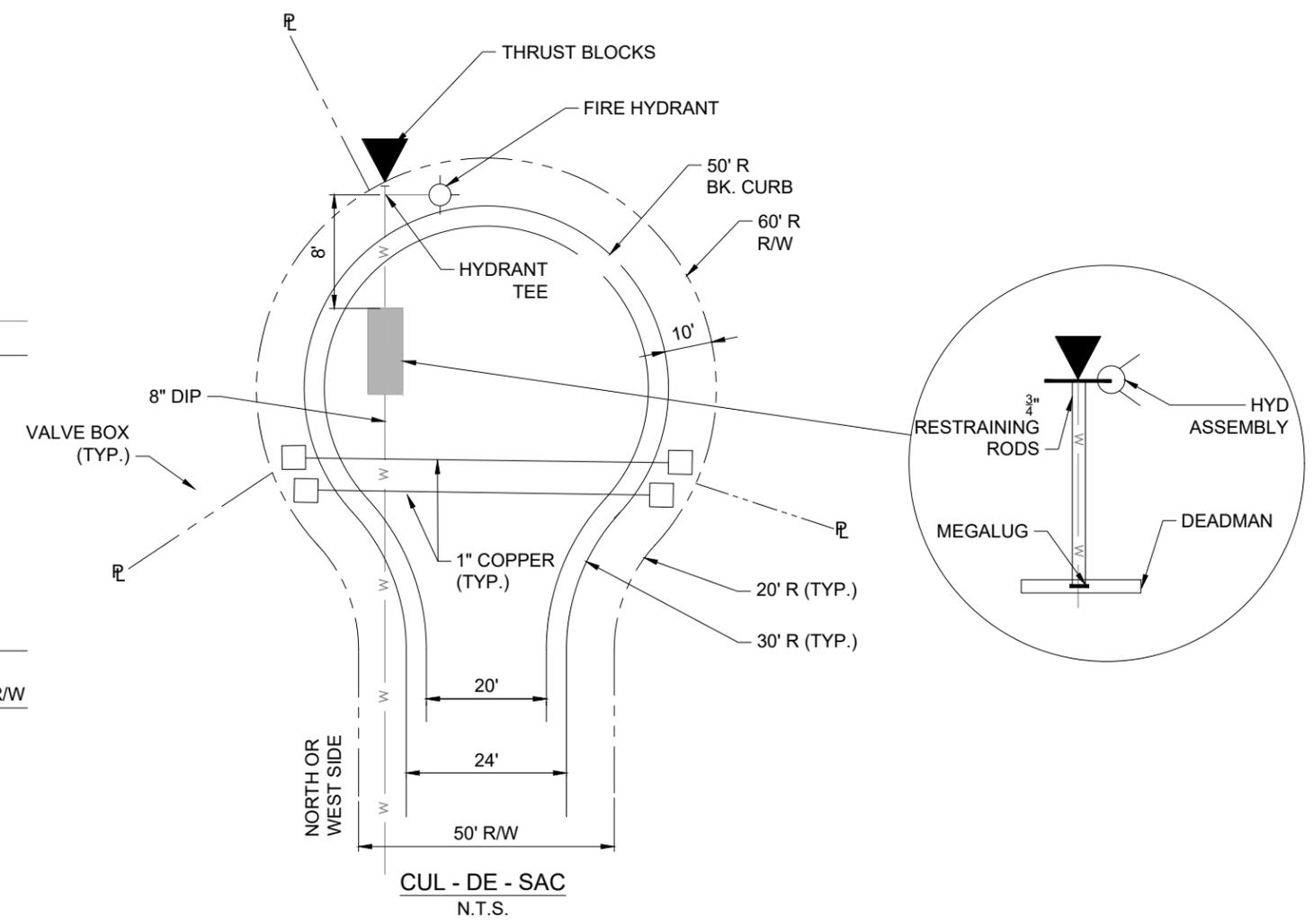
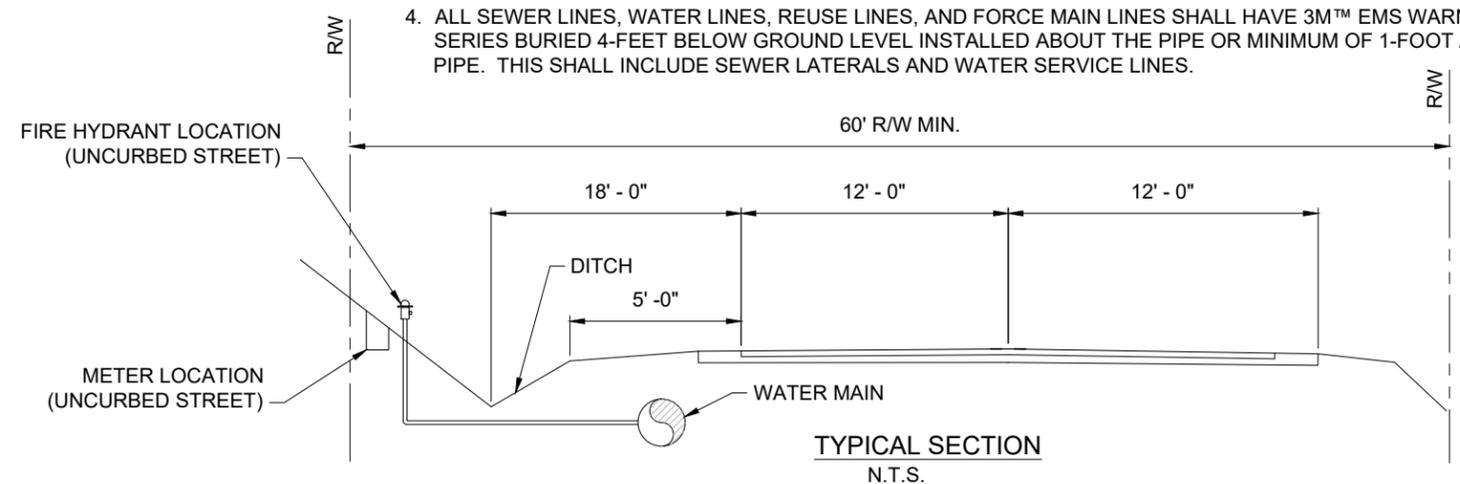
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DRAWING NO.
811



NOTES:

1. SEE STD. # 133 FOR VALVE LOCATION AT STREET INTERSECTION.
2. WATER VALVE MARKERS WILL BE PLACED AT ALL LOCATIONS WHERE WATER VALVES ARE NOT IN THE STREET.
3. WATER VALVES THAT ARE IN THE STREET WILL BE CLEARLY MARKED ON THE CURB.
4. ALL SEWER LINES, WATER LINES, REUSE LINES, AND FORCE MAIN LINES SHALL HAVE 3M™ EMS WARNING TAPE 7900 SERIES BURIED 4- FEET BELOW GROUND LEVEL INSTALLED ABOUT THE PIPE OR MINIMUM OF 1-FOOT ABOVE TOP OF PIPE. THIS SHALL INCLUDE SEWER LATERALS AND WATER SERVICE LINES.



FULTON COUNTY STANDARD DETAIL 812
SMALL (3/4" & 1") WATER METER INSTALLATION AND LOCATION DETAILS

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
 APPROVED: TM
 DATE: 01-21-2026

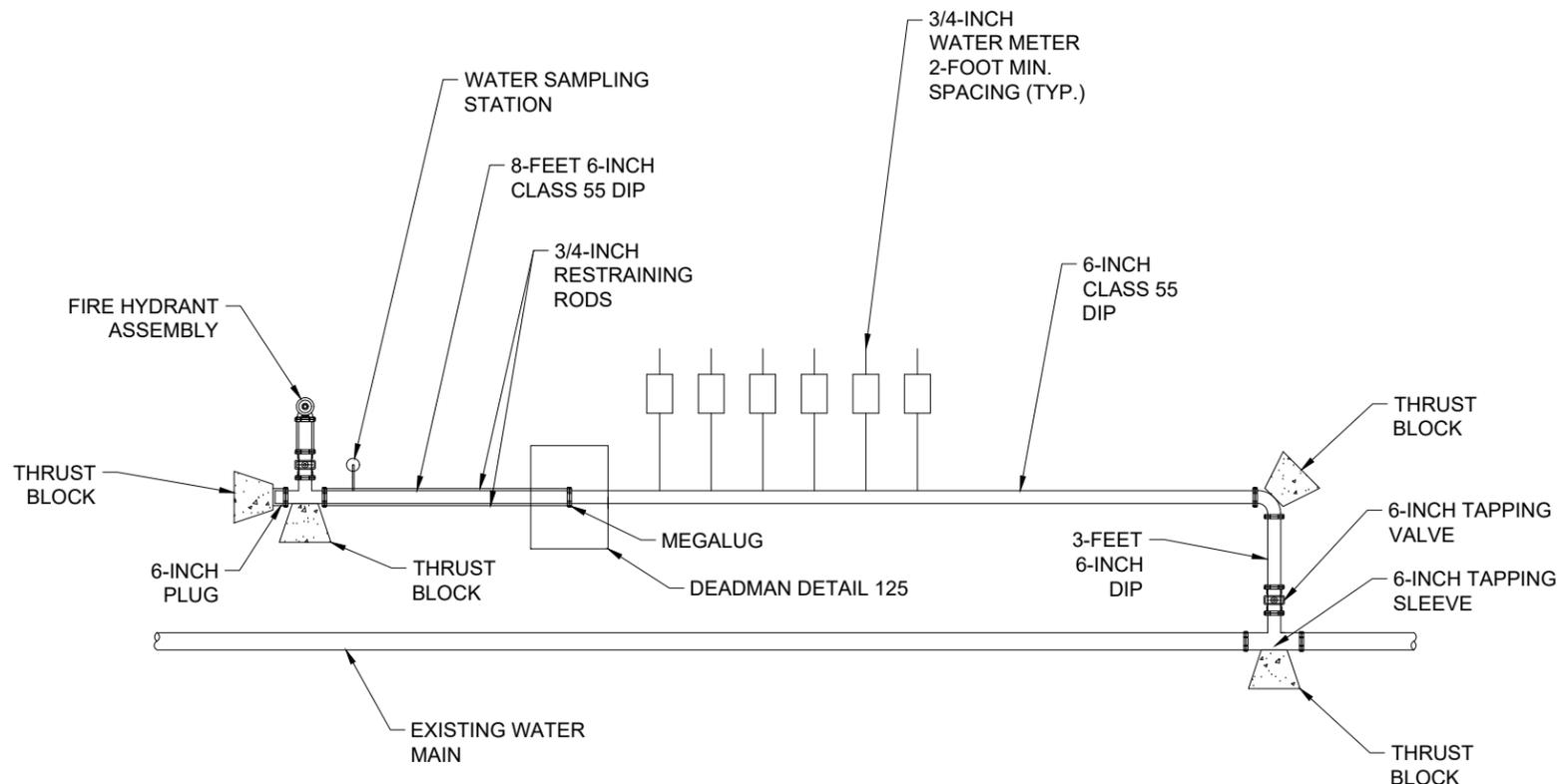


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812

NOTES:

1. 6-INCH TAPPING SLEEVE AND VALVE IS TO BE INSTALLED IN ACCORDANCE WITH FULTON COUNTY STANDARD DETAIL 122.
2. THRUST BLOCKS ARE TO BE INSTALLED IN ACCORDANCE WITH FULTON COUNTY STANDARD DETAILS 132A AND 132B.
3. WATER METERS ARE TO BE INSTALLED IN ACCORDANCE WITH FULTON COUNTY STANDARD DETAIL 801.
4. FIRE HYDRANT IS TO BE INSTALLED IN ACCORDANCE WITH FULTON COUNTY STANDARD DETAILS 808 AND 810.
5. END OF LINE IS TO BE INSTALLED IN ACCORDANCE WITH FULTON COUNTY STANDARD DETAIL 812.
6. WATER SAMPLING STATION IS TO BE INSTALLED IN ACCORDANCE WITH FULTON COUNTY STANDARD DETAIL 818.



PLAN
N.T.S.

813-S.dwg December 08, 2025 10:45am

FULTON COUNTY STANDARD DETAIL 813

WATER METER MANIFOLD DETAIL FOR TOWNHOME DEVELOPMENTS

DATE	REVISIONS	DATE	REVISIONS

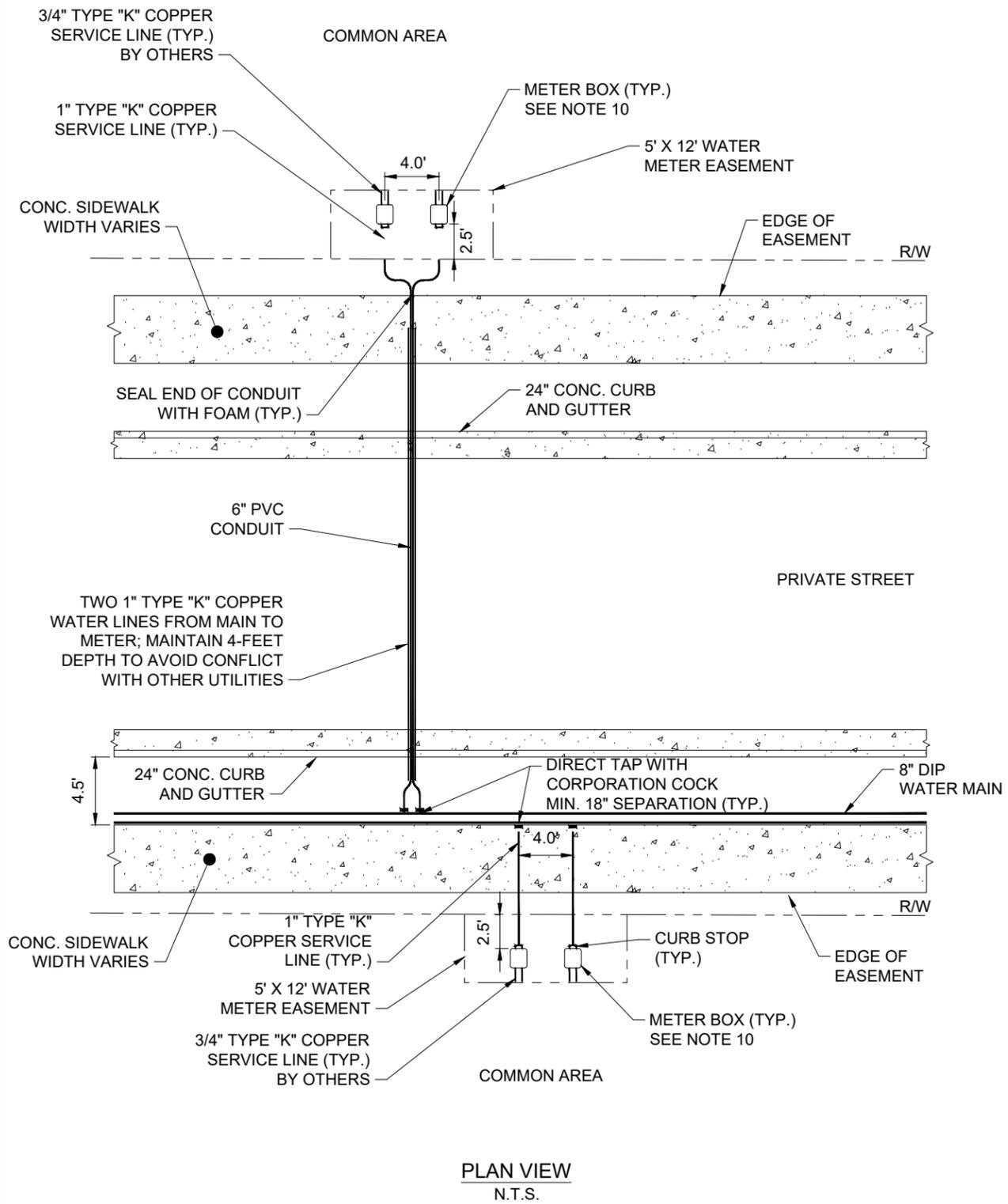
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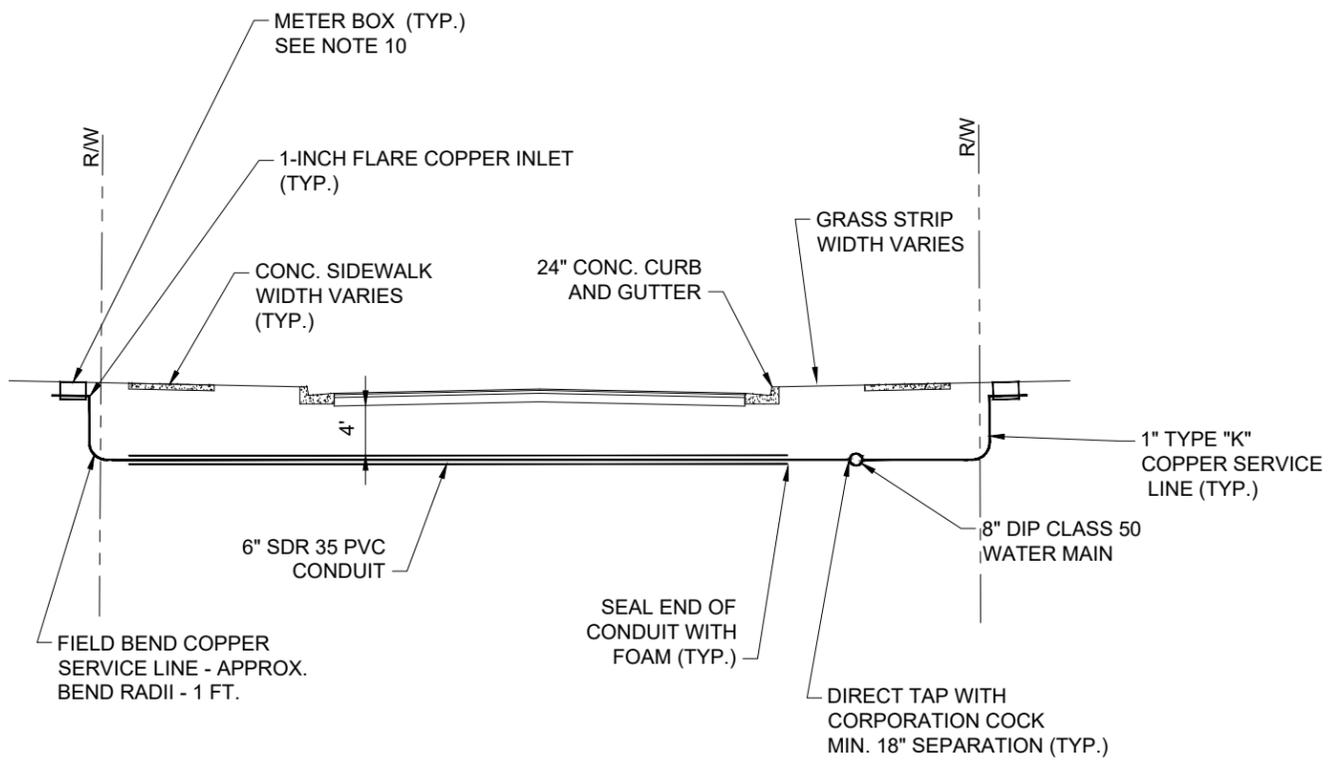
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813

814-S.dwg December 08, 2025 10:45am



PLAN VIEW
N.T.S.



PROFILE VIEW
N.T.S.

- NOTES:**
1. THE COPPER SERVICE LINE STUBS ARE TO BE VERTICAL AND SHALL END 12-INCHES BELOW GRADE.
 2. SHOULDERS ARE TO BE GRADED TO FINISHED GRADE PRIOR TO SETTING METER BOXES.
 3. METER BOX TO BE FORD DGHC228-243-TT-NL W/ ANGLE INLET AND STRAIGHT OUTLET.
 4. USE ALL FLARE JOINTS
 5. INSTALLATION SHALL ALLOW ADEQUATE ROOM TO REMOVE AND/OR REPAIR METERS.
 6. METER BOX SHALL BE APPROXIMATELY 14-3/4" X 17-1/8".
 7. NEW WATER MAIN SUBJECT TO 250 PSI PRESSURE TEST FOR TWO HOURS.
 8. TYPE "K" COPPER SERVICE LINE MUST BE CONTINUOUS FROM METER TO MAIN.
 9. SERVICE SHALL HAVE A MINIMUM COVER OF 48-INCHES BETWEEN THE MAIN AND METER.
 10. METER BOX IS TO BE DGHC228-243-TT-NL ASSEMBLY, LONG DOUBLE GULFBOX, ANGLE INLET, FOR 5/8" X 3/4" METER BY THE FORD METER BOX CO, INC., DRAWING C14434-001. METER BOX TO HAVE TWO 3/4" METERS SIDE BY SIDE (TYP.) SET ON TWO COURSES OF BRICK WITH 8 BRICKS IN EACH. LIDS ARE TO BE PRE-DRILLED WITH TWO 1 7/8" HOLES FOR AMR'S W/ PLASTIC AMR PLUGS.
 11. ALL SEWER LINES, WATER LINES, REUSE LINES, AND FORCE MAIN LINES SHALL HAVE 3M™ EMS WARNING TAPE 7900 SERIES BURIED 4-FEET BELOW GROUND LEVEL INSTALLED ABOUT THE PIPE OR MINIMUM OF 1-FOOT ABOVE TOP OF PIPE. THIS SHALL INCLUDE SEWER LATERALS AND WATER SERVICE LINES.

FULTON COUNTY STANDARD DETAIL 814
WATER METER LAYOUT FOR TOWNHOUSE DEVELOPMENTS WITHOUT LOTS

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
DATE: 01-21-2026

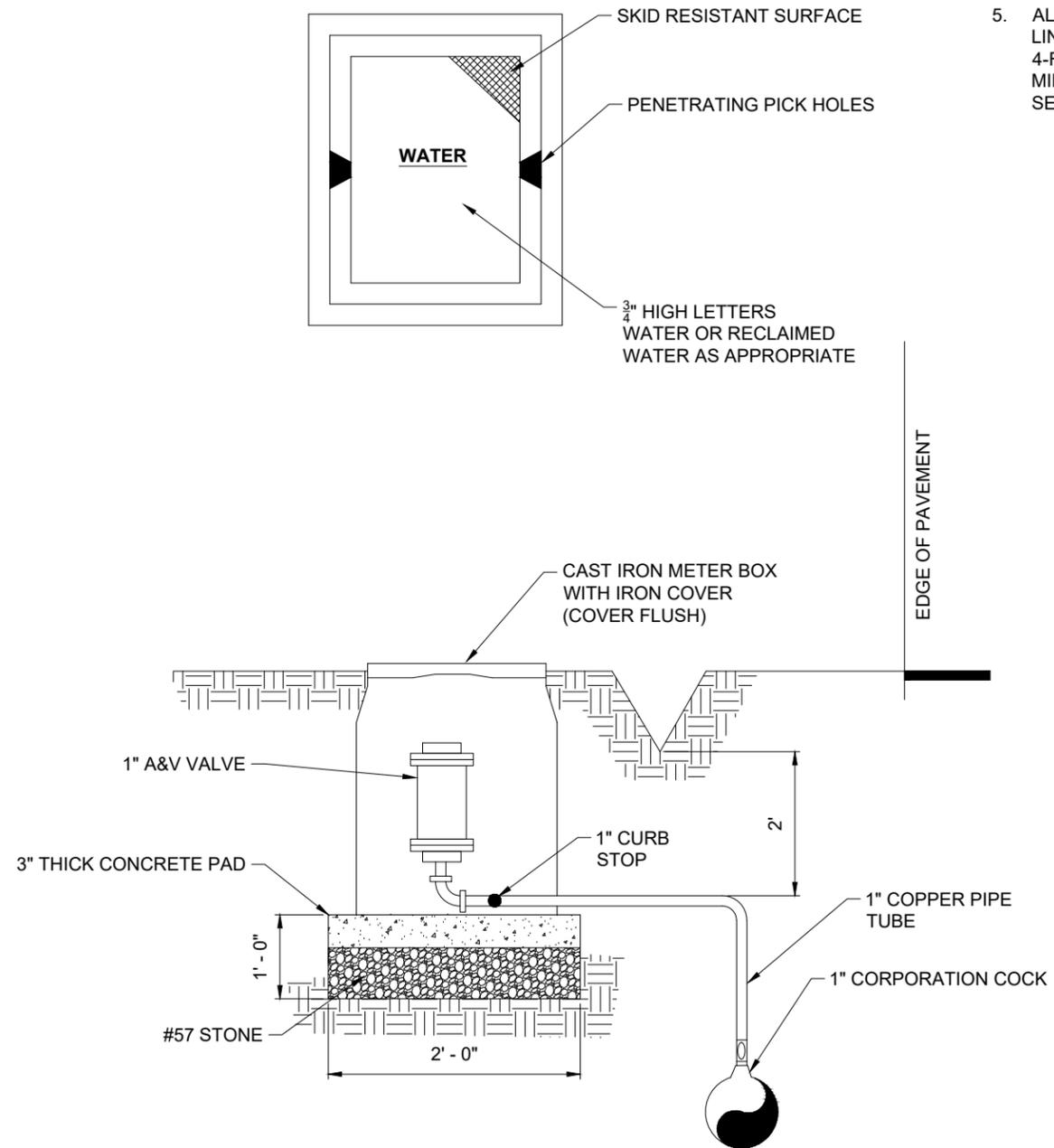


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DRAWING NO.
814

NOTES:

1. VALVE MARKER REQUIRED.
2. A&V VALVE AND COPPER SHALL BE SIZED IN ACCORDANCE WITH VALVE MANUFACTURER'S RECOMMENDATIONS.
3. METER BOX SHALL BE CDR 10 X 1 5HC OR APPROVED EQUAL.
4. A&V VALVE SHALL BE VENT-O-MAT SERIES RBX OR EQUAL.
5. ALL SEWER LINES, WATER LINES, REUSE LINES, AND FORCE MAIN LINES SHALL HAVE 3M™ EMS WARNING TAPE 7900 SERIES BURIED 4-FEET BELOW GROUND LEVEL INSTALLED ABOUT THE PIPE OR MINIMUM OF 1-FOOT ABOVE TOP OF PIPE. THIS SHALL INCLUDE SEWER LATERALS AND WATER SERVICE LINES.



FULTON COUNTY STANDARD DETAIL 815

A & V RELEASE VALVE ASSEMBLY
1" OR 2"

DATE	REVISIONS	DATE	REVISIONS

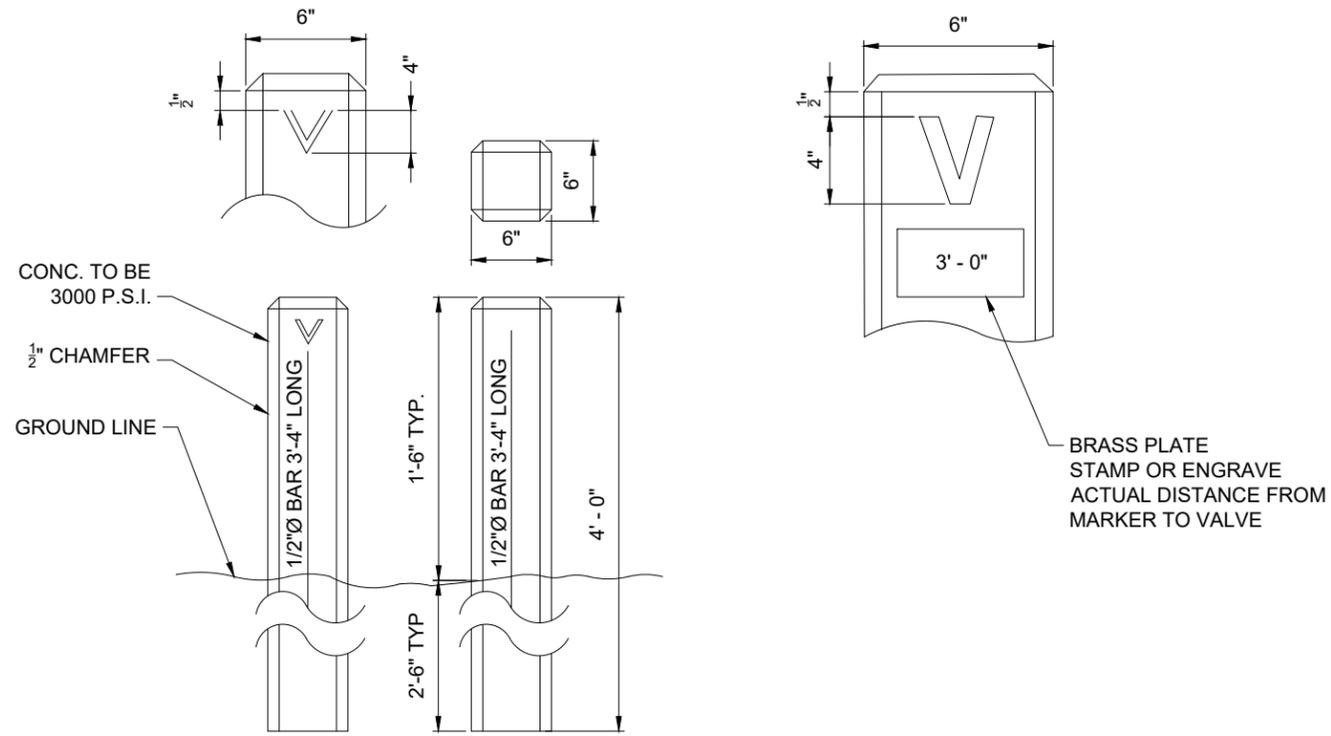
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DRAWING NO.

815



WATER VALVE MARKER DETAILS
N.T.S.

FULTON COUNTY STANDARD DETAIL 816
WATER VALVE MARKER

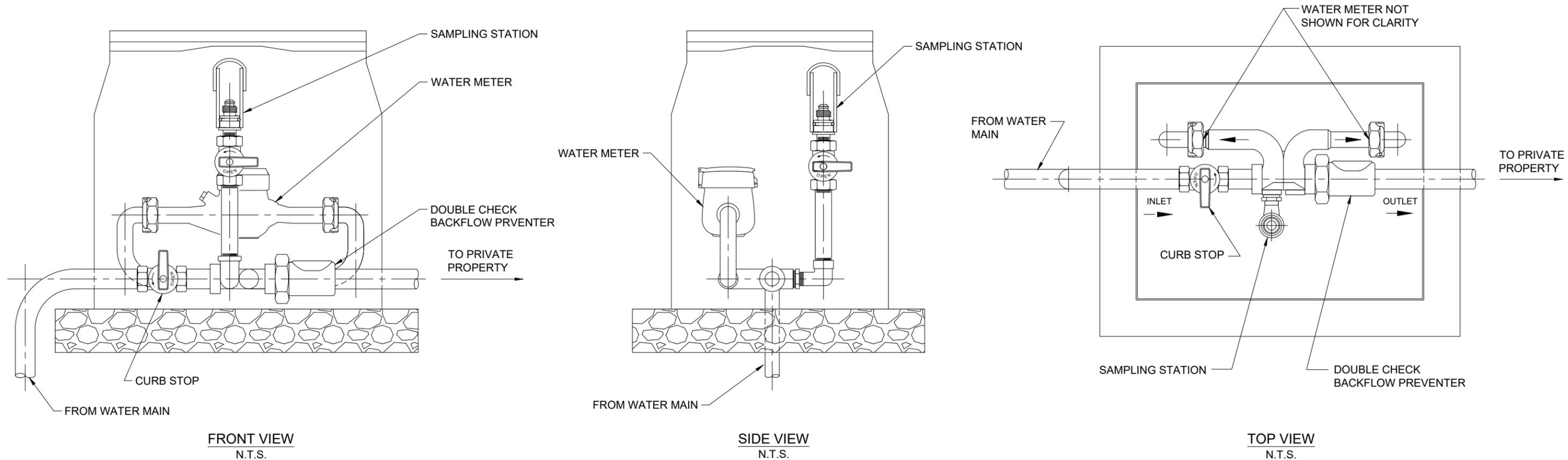
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APPROVED: TM
DATE: 01-21-2026



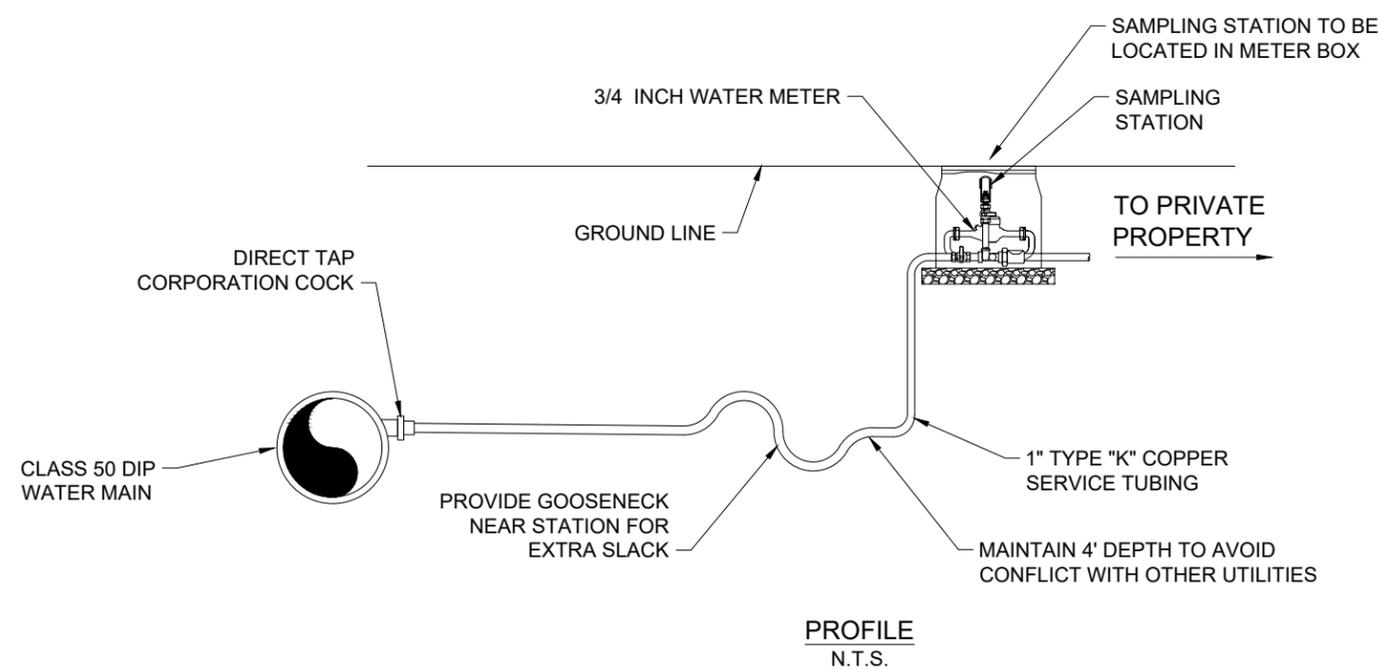
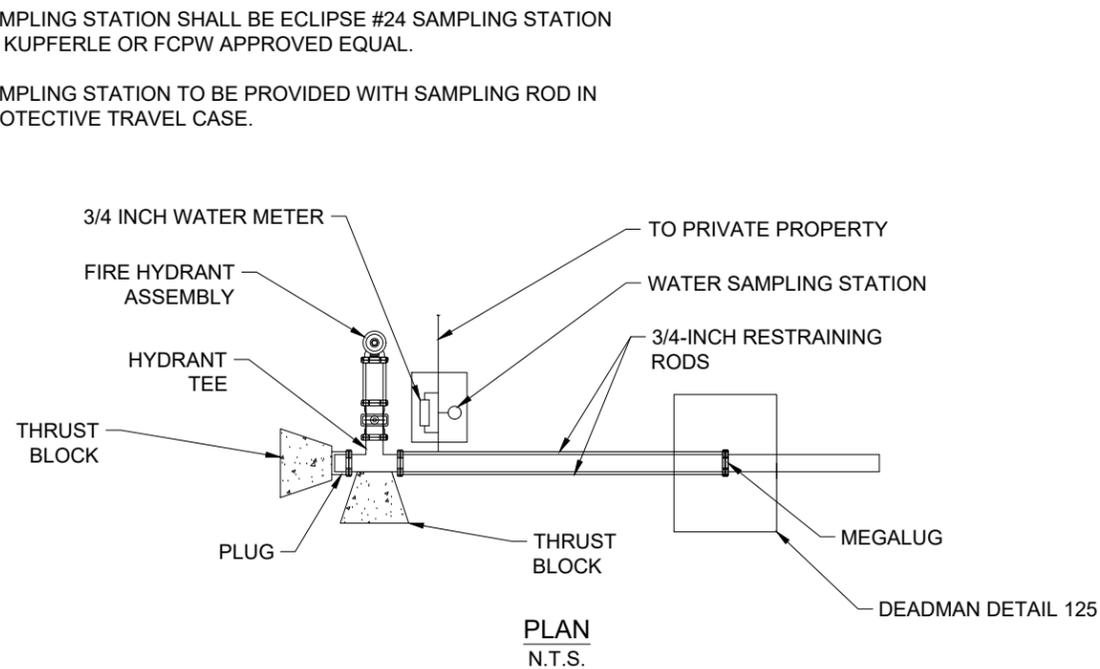
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DRAWING NO.
816



NOTE:

1. SAMPLING STATION SHALL BE ECLIPSE #24 SAMPLING STATION BY KUPFERLE OR FCPW APPROVED EQUAL.
2. SAMPLING STATION TO BE PROVIDED WITH SAMPLING ROD IN PROTECTIVE TRAVEL CASE.



FULTON COUNTY STANDARD DETAIL 818
WATER SAMPLING STATION

DATE	REVISIONS	DATE	REVISIONS

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 APPROVED: TM
 DATE: 01-21-2026

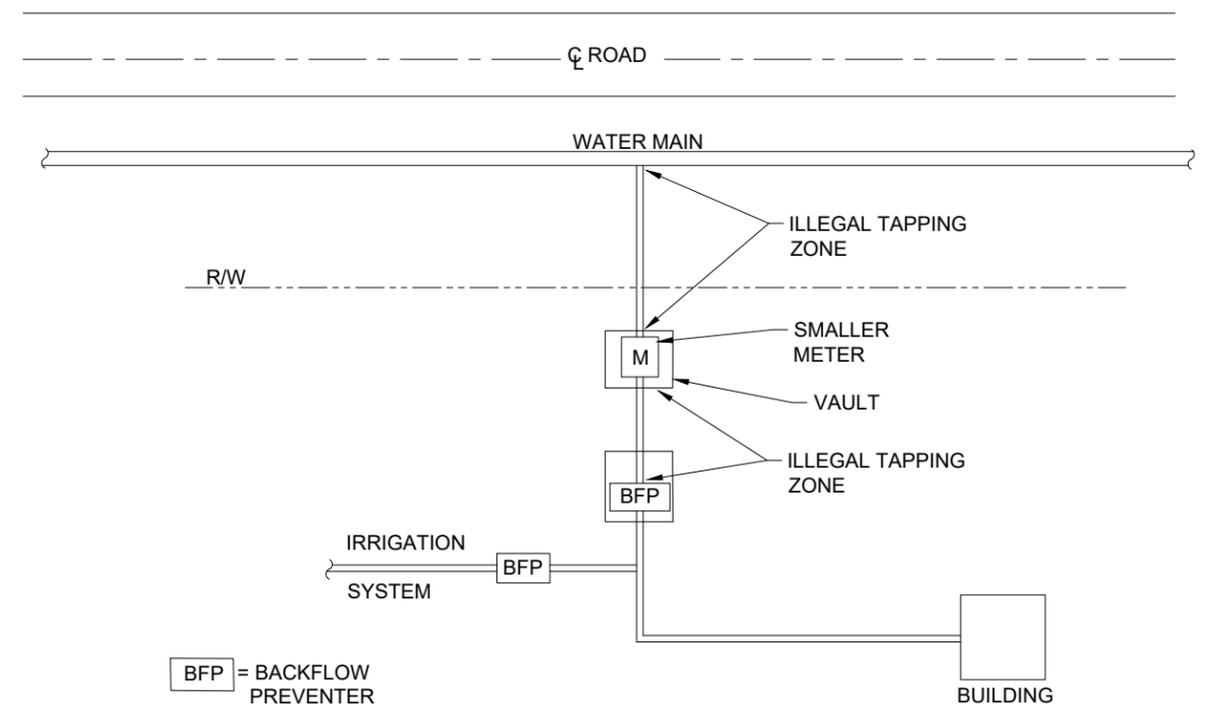
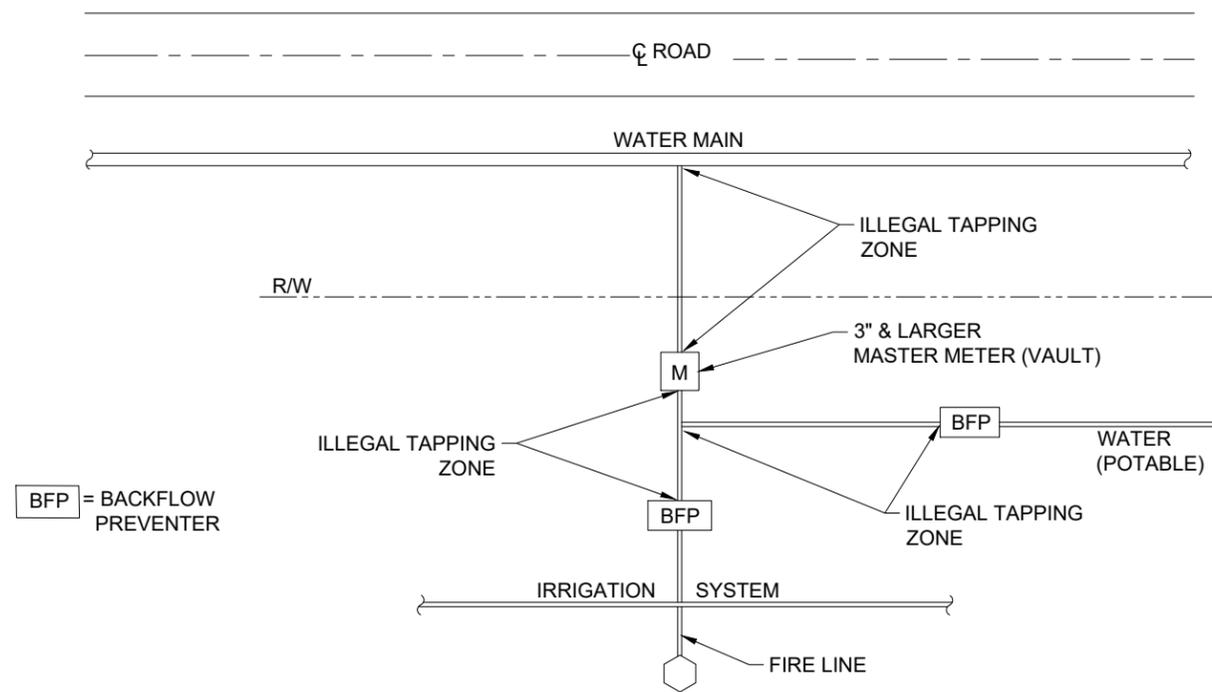


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DRAWING NO.
818

NOTES:

1. INSTALLATION OF THE AIR-GAP OR MECHANICAL BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED SUBJECT TO THE APPROVAL OF FULTON COUNTY PUBLIC WORKS.
2. ANY DEVIATION FROM THE METHODS DESCRIBED ABOVE MUST RECEIVE APPROVAL PRIOR TO INSTALLATION.
3. ALL MECHANICAL BACKFLOW PREVENTION ASSEMBLIES APPROVED BY FULTON COUNTY PUBLIC WORKS FOR INSTALLATION AT THE SERVICE CONNECTION MUST BE APPROVED BY THE FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH, UNIVERSITY OF SOUTHERN CALIFORNIA. THESE ASSEMBLIES ARE ONLY APPROVED FOR THE HORIZONTAL ORIENTATIONS.
4. CHOICE OF THE TYPE OF BACKFLOW PREVENTION ASSEMBLY, I.E. REDUCED PRESSURE PRINCIPLE OR DOUBLE CHECK VALVE ASSEMBLY, WILL BE BASED ON THE DEGREE OF HAZARD AS EVALUATED BY FULTON COUNTY PUBLIC WORKS.
5. FOR FURTHER INFORMATION, REFER TO THE FULTON COUNTY MANUAL ON CROSS CONNECTIONS.
6. IN SOME CASES, A SINGLE VAULT WILL BE ALLOWED FOR THE METER AND THE BACKFLOW PREVENTER.



FULTON COUNTY STANDARD DETAIL 819
BACKFLOW PREVENTION ASSEMBLY

DATE	REVISIONS	DATE	REVISIONS

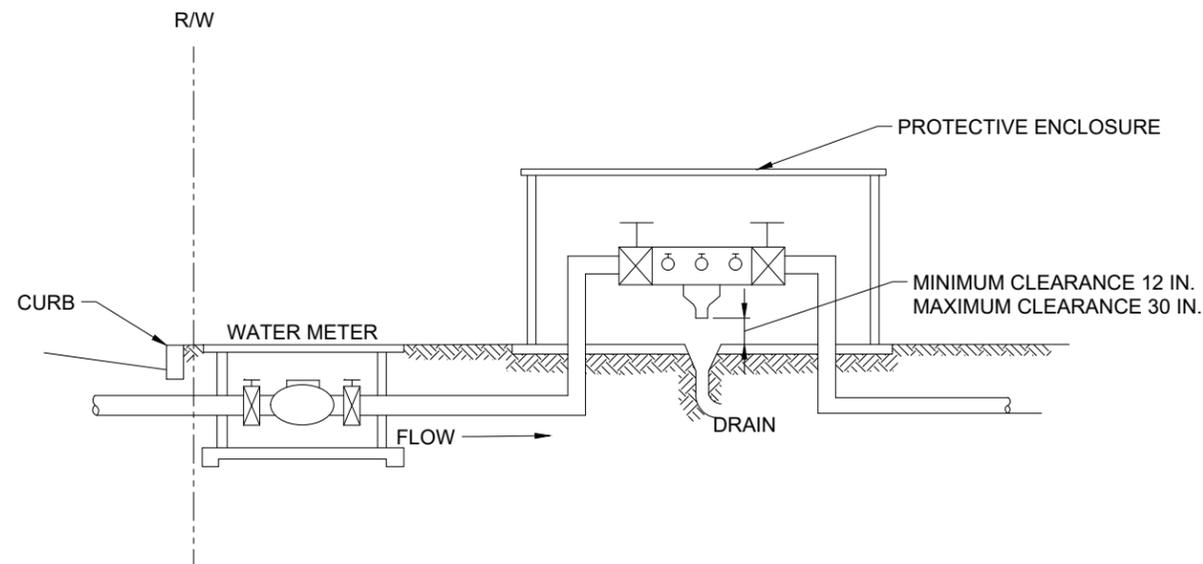
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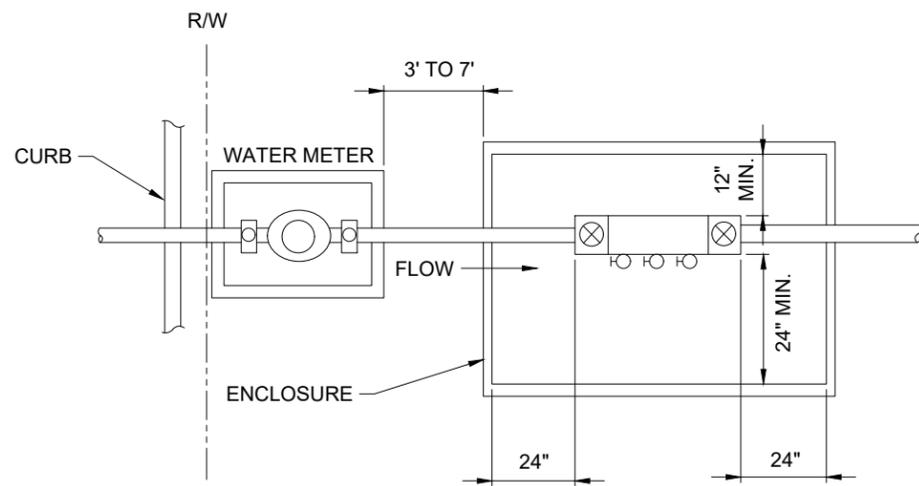
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DRAWING NO.

819



TYPICAL INSTALLATION PROFILE
N.T.S.



TYPICAL INSTALLATION - PLAN VIEW
N.T.S.

NOTES:

1. THE REDUCED-PRESSURE BACKFLOW PREVENTION ASSEMBLY (RPBA) SHALL BE INSTALLED WITH ADEQUATE SPACE TO FACILITATE MAINTENANCE AND TESTING. THE INSTALLATION SHOULD NOT REQUIRE PLATFORMS, LADDERS OR LIFTS FOR ACCESS. ADEQUATE CLEARANCE FROM THE FLOOR, CEILING, AND WALLS MUST BE PROVIDED TO FACILITATE THE REMOVAL OF THE RELIEF VALVE AND/OR CHECK VALVES.
2. PROTECT THE RPBA FROM FREEZING TEMPERATURES.
3. IF INSTALLED WHERE TEMPERATURES WILL REACH 110 DEGREES FAHRENHEIT, A HOT-WATER TYPE ASSEMBLY MUST BE USED.
4. AN RPBA SHALL NOT BE INSTALLED IN A PIT BELOW GROUND LEVEL.
5. BEFORE INSTALLING AN RPBA, ENSURE THAT THE RELIEF VALVES ARE IN GOOD WORKING CONDITION.
6. IF THE RPBA IS LOCATED INSIDE THE BUILDING, A DRAIN MUST BE PROVIDED TO RECEIVE SPILLAGE FROM THE RELIEF VALVE PORT. THE RELIEF VALVE PORT MUST ALWAYS HAVE AN APPROVED AIR GAP BETWEEN IT AND THE DRAIN OR MAXIMUM FLOOD LEVEL WHICHEVER IS HIGHEST.
7. THE RPBA SHALL NOT BE INSTALLED IN AN AREA WHERE CORROSIVE FUMES OR GASES COULD RENDER THE ASSEMBLY INOPERABLE.

FULTON COUNTY STANDARD DETAIL 820

REDUCED PRESSURE BACKFLOW
PREVENTION ASSEMBLY

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
APPROVED: TM
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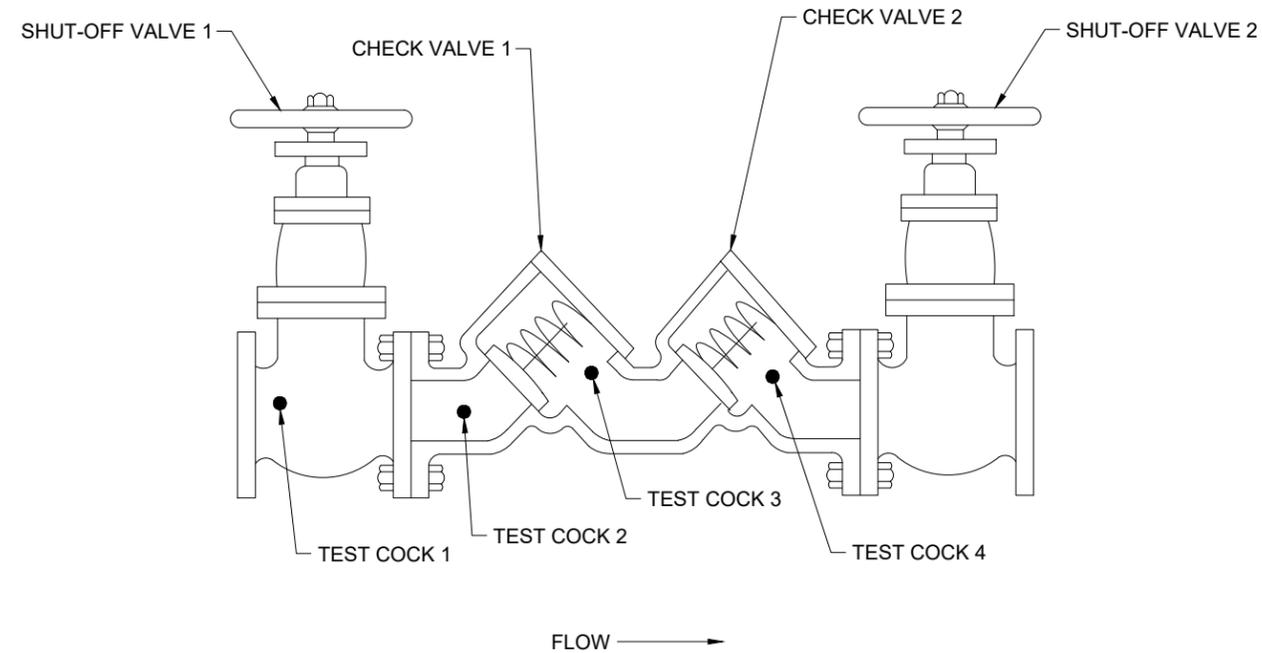
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DRAWING NO.

820

NOTES:

1. INSTALLATION OF THE AIR-GAP OR MECHANICAL BACKFLOW PREVENTION ASSEMBLY SHALL BE SUBJECT TO THE APPROVAL OF FULTON COUNTY PUBLIC WORKS.
2. ANY DEVIATION FROM THE METHODS SPECIFIED MUST RECEIVE APPROVAL PRIOR TO INSTALLATION.
3. ALL MECHANICAL BACKFLOW PREVENTION ASSEMBLIES APPROVED BY FULTON COUNTY PUBLIC WORKS FOR INSTALLATION AT THE SERVICE CONNECTION MUST BE APPROVED BY THE FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH, UNIVERSITY OF SOUTHERN CALIFORNIA. THESE ASSEMBLIES ARE ONLY APPROVED FOR THE HORIZONTAL ORIENTATIONS.
4. CHOICE OF THE TYPE OF BACKFLOW PREVENTION ASSEMBLY, I.E. REDUCED PRESSURE PRINCIPLE OR DOUBLE CHECK VALVE ASSEMBLY (DCVA), WILL BE BASED ON THE DEGREE OF HAZARD AS EVALUATED BY FULTON COUNTY PUBLIC WORKS.
5. FOR FURTHER INFORMATION, REFER TO THE FULTON COUNTY MANUAL ON CROSS-CONNECTIONS.
6. THE DCVA SHOULD BE INSTALLED WITH ADEQUATE SPACE TO FACILITATE MAINTENANCE AND TESTING AND SHOULD HAVE FREE ACCESS WITHOUT THE USE OF PLATFORMS, LADDERS, OR LIFTS.
7. THE DCVA SHOULD BE INSTALLED BELOW GROUND LEVEL.
8. ALL DCVAS SHALL BE INSTALLED IN A HORIZONTAL POSITION UNLESS OTHERWISE RECOMMENDED BY THE MANUFACTURER AND/OR FULTON COUNTY PUBLIC WORKS.
9. DCVA MUST BE PROTECTED FROM FREEZING TEMPERATURES. FOR TEMPERATURES OF 100 DEGREES FAHRENHEIT (43 DEGREES CELSIUS) OR ABOVE, CONSULT MANUFACTURER'S LITERATURE FOR RECOMMENDATIONS.



TYPICAL DOUBLE CHECK VALVE ASSEMBLY DETAIL
N.T.S.

821-S.dwg December 08, 2025 10:46am

FULTON COUNTY STANDARD DETAIL 821
DOUBLE CHECK VALVE ASSEMBLY

DATE	REVISIONS	DATE	REVISIONS

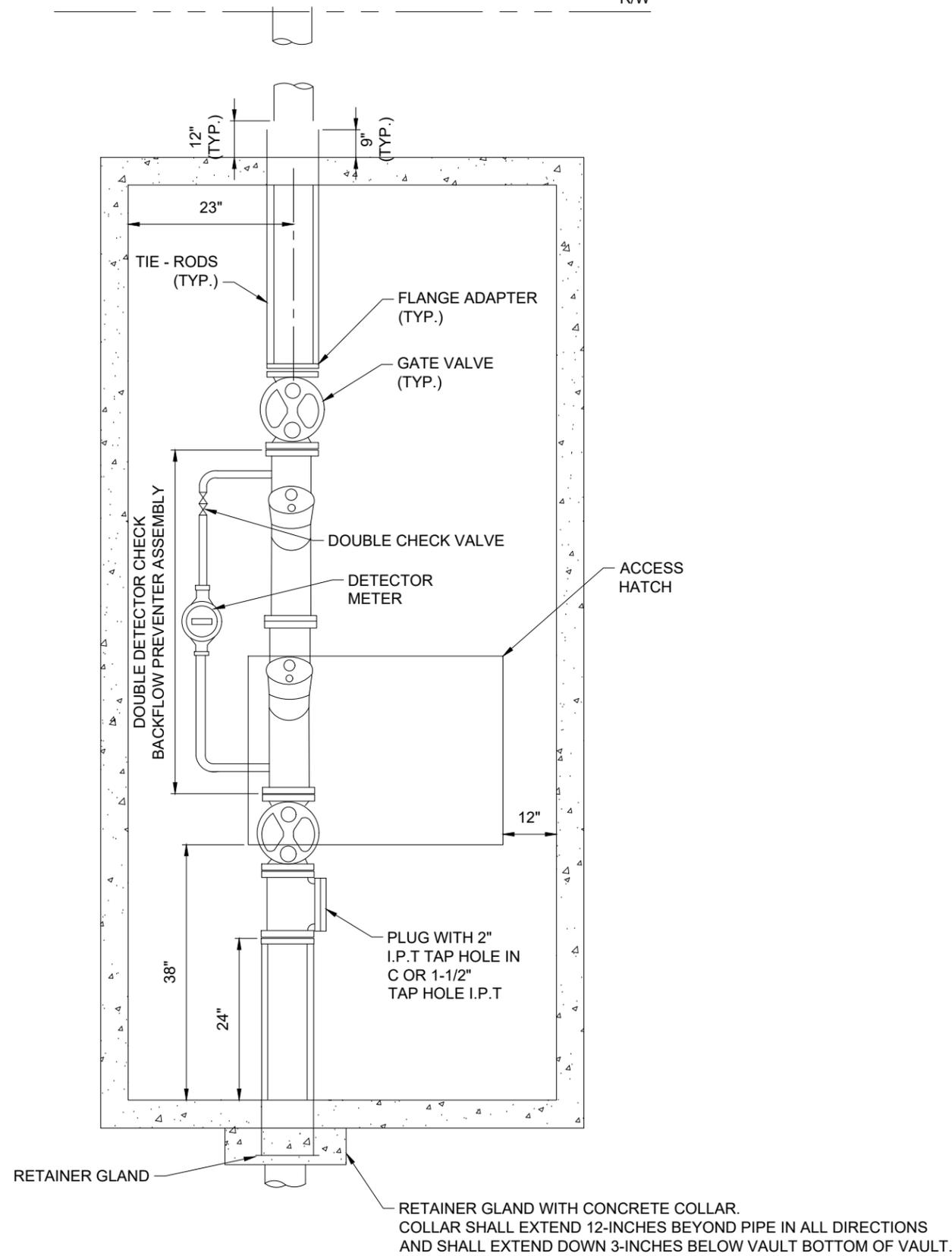
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DATE: 01-21-2026



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DRAWING NO.
821

R/W



NOTES:

1. TYPE I VAULT SHALL BE USED FOR 3-INCH, 4-INCH, 6-INCH OR 8-INCH DOUBLE DETECTOR CHECK BACKFLOW PREVENTER FOR USE WITH 1-INCH, 1½-INCH AND 2-INCH METER SET NEXT TO FIRE VAULT.
2. SEE FULTON COUNTY WATER STANDARD SPECIFICATIONS SECTIONS 40 05 01 AND 40 05 19 ALL MATERIAL TO BE FURNISHED BY CONTRACTOR.
3. ALL FITTING SHALL BE DUCTILE IRON WITH FLANGED JOINTS. GATE VALVES SHALL BE OUTSIDE STEM AND YOKE (OSY) WITH HANDWHEEL.
4. VAULT SHALL BE PRECAST CONCRETE. MIN. INSIDE HEIGHT SHALL BE 6 FEET. LOAD BEARING VAULT SHALL BE DESIGNED BY PROPERTY OWNER'S ENGINEER, AND SUBMITTED TO COUNTY FOR APPROVAL.
5. FOR 3-INCH AND 4-INCH FIRE LINES, BACK FLOW VAULT SHALL BE 10' x 6' x 7' WITH 42" x 42" ACCESS HATCH.
6. FOR 6-INCH AND 8-INCH FIRE LINES, BACK FLOW VAULT SHALL BE 13' x 7' x 7' WITH 54" x 54" ACCESS HATCH.
7. VAULT FLOOR SHALL BE #57 CRUSHED STONE, MINIMUM 6 INCHES THICK.
8. PROVIDE CONCRETE PIER UNDER BFP 12" X 12" X 18" HIGH.
9. PROVIDE RETAINER GLAND ON PIPE BEYOND VAULT WALLS. PROVIDE TWO TIE RODS FROM FIRST INTERIOR FLANGE TO RETAINER GLANDS, WITH DOUBLE NUTS AND WASHERS. ENCASE RETAINER GLANDS IN CONCRETE. ALSO, PROVIDE TIE RODS FROM RETAINER GLAND TO TAPPING VALVE OR CASING UNDER ROAD, WHICHEVER IS CLOSER. RODS SHALL BE PROVIDED WITH BITUMASTIC COATING.
10. VAULT WALL OPENINGS SHALL BE SEALED WITH NON-SHRINK GROUT. ENSURE 1-INCH CLEARANCE BETWEEN TOP OF PIPE AND PRECAST WALL.

822-S.dwg December 08, 2025 10:46am

FULTON COUNTY STANDARD DETAIL 822

FIRE LINE VAULT - TYPE 1

DATE	REVISIONS	DATE	REVISIONS

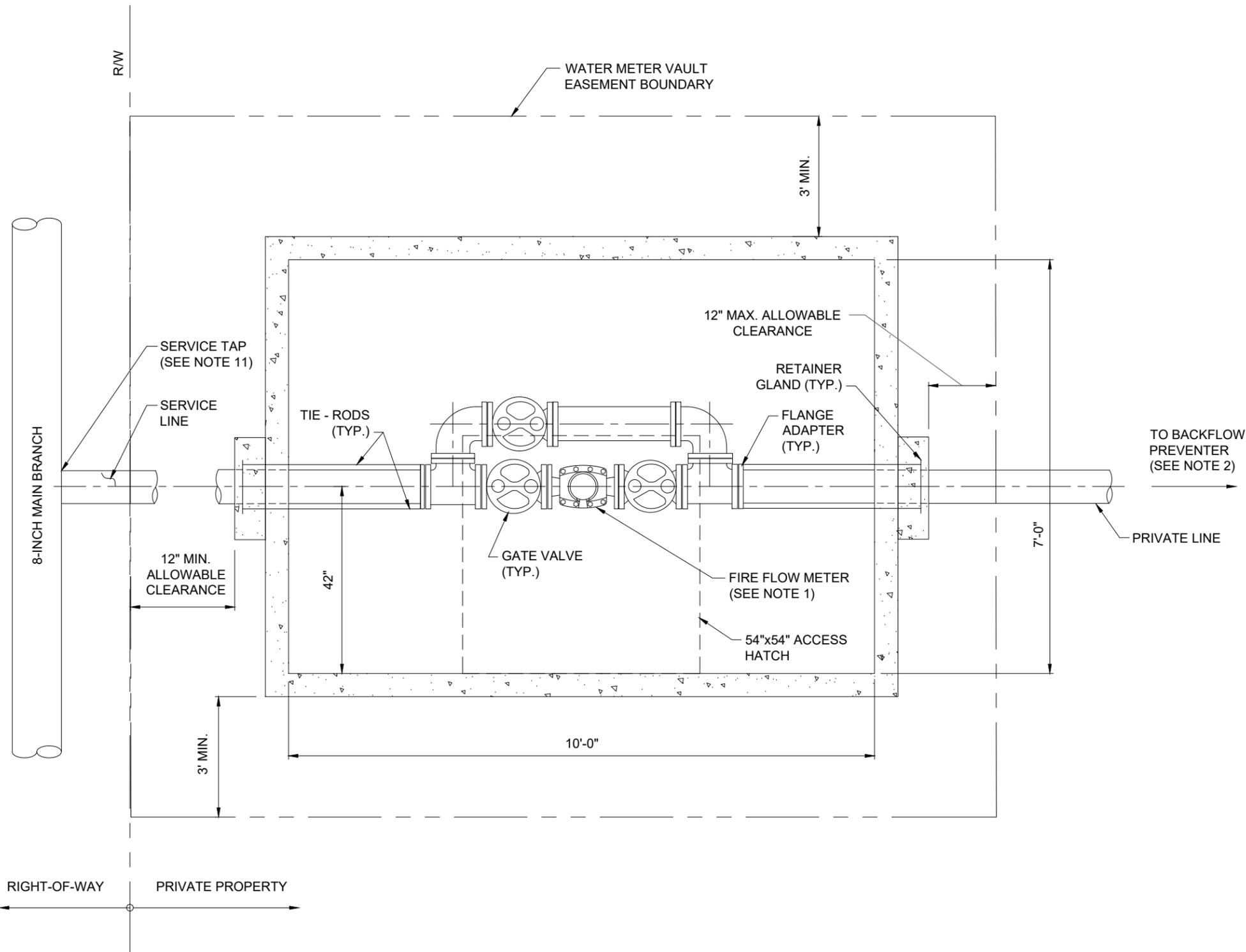
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DRAWING NO.

822



NOTES:

1. FIRE METER SHALL BE THE MACH 10 ULTRASONIC METER BY NEPTUNE OR FCPW APPROVED EQUAL.
2. BACKFLOW PREVENTER SHALL BE REQUIRED & INSTALLED WITHIN 7 FT. OF THE FIRE METER.
3. STANDARD DETAIL APPLIES TO 3", 4", 6" AND 8" FIRE METER ONLY. DEVELOPER TO SUBMIT DESIGN FOR 10" FIRE METER TO BE REVIEWED BY FCPW.
4. PROVIDE 1'-0" CLEARANCE BETWEEN BOTTOM OF FIRE METER AND THE GRAVEL FLOOR OF VAULT.
5. SEE FULTON COUNTY WATER STANDARD SPECIFICATIONS SECTIONS 40 05 01 AND 40 05 19 FOR MATERIAL SPECIFICATIONS. ALL MATERIAL TO BE FURNISHED BY CONTRACTOR.
6. ALL FITTING SHALL BE DUCTILE IRON WITH FLANGED JOINTS. GATE VALVES SHALL BE OUTSIDE STEM AND YOKE (OSY) WITH HANDWHEEL.
7. VAULT SHALL BE PRECAST CONCRETE. MIN. INSIDE HEIGHT SHALL BE 6 FEET. LOAD BEARING VAULT SHALL BE DESIGNED BY PROPERTY OWNER'S ENGINEER, AND SUBMITTED TO FCPW FOR APPROVAL.
8. PROVIDE RETAINER GLAND ON PIPE BEYOND VAULT WALLS. PROVIDE TWO TIE RODS FROM FIRST INTERIOR FLANGE TO RETAINER GLANDS, WITH DOUBLE NUTS AND WASHERS. ENCASE RETAINER GLANDS IN CONCRETE. ALSO, PROVIDE TIE RODS FROM RETAINER GLAND TO TAPPING VALVE OR CASING UNDER ROAD, WHICHEVER IS CLOSER. RODS SHALL BE PROVIDED WITH BITUMASTIC COATING.
9. VAULT WALL OPENINGS SHALL BE SEALED WITH NON-SHRINK GROUT. ENSURE 1-INCH CLEARANCE BETWEEN TOP OF PIPE AND PRECAST WALL.
10. SERVICE TAP ON SHORT SIDE ONLY. TAP TO BE INSTALLED BY FCPW.

825-S.dwg December 08, 2025 10:46am

FULTON COUNTY STANDARD DETAIL 825
FM ASSEMBLY (FIRE SERVICE ONLY)

DATE	REVISIONS	DATE	REVISIONS

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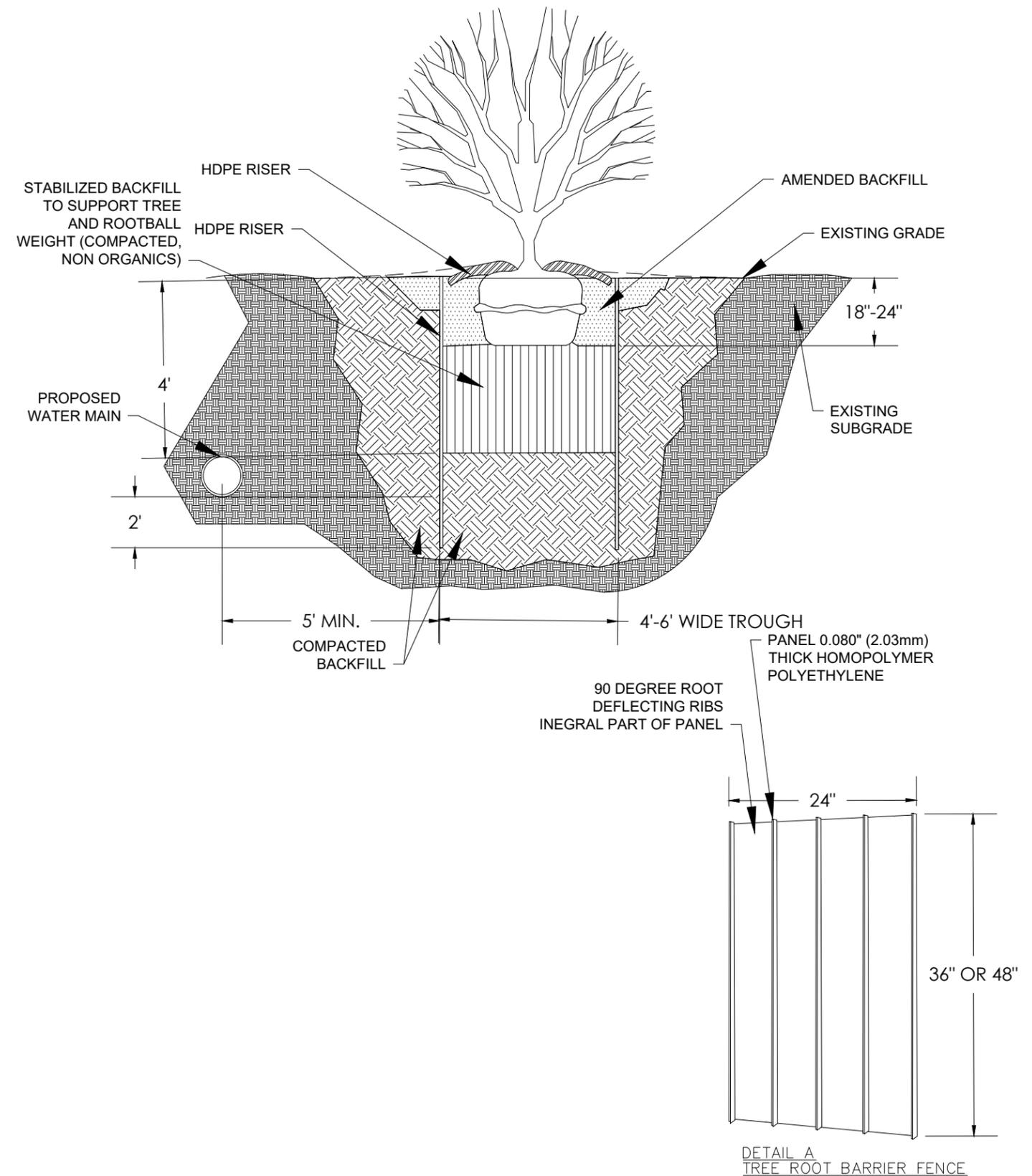


FULTON COUNTY PUBLIC WORKS
 141 PRYOR ST. ATLANTA, GA. 30303
 404-612-7400 FAX: 404-224-0498

DRAWING NO.

825

826-S.dwg December 08, 2025 10:46am



UB 36-2/UB 48-2 SPECIFICATIONS 36" AND 48" DEEPROOT TREE ROOT BARRIER

A. MATERIALS

1. THE CONTRACTOR SHALL FURNISH AND INSTALL TREE ROOT BARRIER AS SPECIFIED. THE ROOT BARRIER SHALL BE EITHER PRODUCT #UB 36-2 OR UB 48-2 AS MANUFACTURED BY DEEPROOT GREEN INFRASTRUCTURE, LLC, 530 WASHINGTON STREET, SAN FRANCISCO, CA, WWW.DEEPROOT.COM (800).458.7668).
2. ROOT BARRIER SHALL BE RECYCLABLE, BLACK, EXTRUDED PANELS WITH 0.80" (2.03MM) WALL THICKNESS IN MODULES 24" (609MM) LONG AND EITHER 36" (910MM) OR 48" (1220MM) DEEP.
3. ROOT BARRIER SHALL BE MANUFACTURED WITH 100% REPROCESSED HOMOPOLYMER POLYETHYLENE WITH ADDED ULTRAVIOLET INHIBITORS.
4. ROOT BARRIER SHALL BE COMPRISED OF 24" (609mm) MODULES. EACH PANEL SHALL HAVE NO LESS THAN FOUR (4) MOLDED INTEGRAL VERTICAL ROOT DIRECTING RIBS OF A MINIMUM 0.080" (2.03mm) THICKNESS, PROTRUDING 1/2" (12.7mm) AT 90 DEGREES FROM INTERIOR OF THE BARRIER PANEL, SPACED 6" (152.4mm) APART. (SEE DETAIL A)
5. ROOT BARRIER SHALL HAVE AN INTEGRATED JOINING SYSTEM FOR ASSEMBLY BY SLIDING ONE PANEL INTO ANOTHER.

MATERIAL AND THICKNESS	HOMOPOLYMER POLYETHYLENE 0.080 INCH EXTRUDED	
PROPERTIES	TYPICAL VALUE	ASTM TEST METHOD
TENSILE STRESS @ YIELD	3800 PSI	D638
ELONGATION @ BREAK %	10%	D638
TENSILE MODULUS	155,000 PSI	D638
NOTCHED IZOD IMPACT	0.4 - 4.0	D256A
FLEXUAL MODULUS 73 PSI	145,000	D790
HARDNESS SHORE	P66	D2240

FULTON COUNTY STANDARD DETAIL 826

ROOT BARRIER SYSTEM

DATE	REVISIONS	DATE	REVISIONS

DGS/DRN/CHKD: MB/EB/ML
 APPROVED: TM
 DATE: 01-21-2026



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