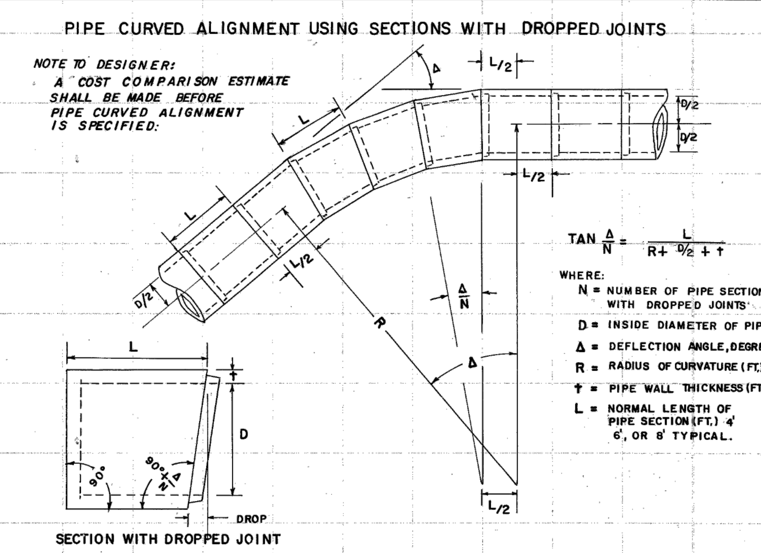
PIPE CURVED ALIGNMENT USING SECTIONS WITH DROPPED JOINTS

NOTE TO DESIGNER: A COST COMPARISON ESTIMATE SHALL BE MADE BEFORE PIPE CURVED ALIGNMENT IS SPECIFIED.



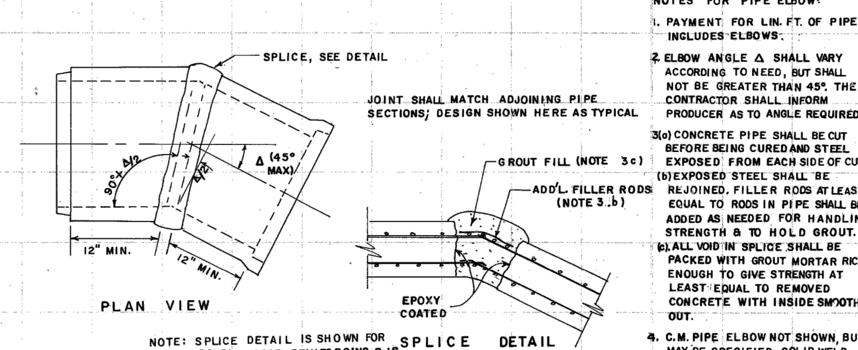
SECTION WITH DROPPED JOINT

$$\tan\frac{\Delta}{N} = \frac{L}{R + D/2 + t}$$

WHERE:
- N = NUMBER OF PIPE SECTIONS WITH DROPPED JOINTS
- D = INSIDE DIAMETER OF PIPE
- Δ = DEFLECTION ANGLE, DEGREES
- R = RADIUS OF CURVATURE (FT.)
- t = PIPE WALL THICKNESS (FT.)
- L = NORMAL LENGTH OF PIPE SECTION (FT.) 4', 6', OR 8' TYPICAL.

NOTES FOR PIPE CURVED ALIGNMENT:
1. PLANS ARE TO SPECIFY ONLY THE PIPE DIAMETER "D", THE ANGLE "Δ", AND THE TANGENT ALIGNMENT.
2. PIPE WALL THICKNESS "t", PIPE SECTION LENGTHS "L", AND DROP IN PIPE JOINT "Δ/N" VARIES ACCORDING TO PIPE PRODUCER AND IS BASED ON FEASIBILITY.
3. THE RADIUS "R" AND THE NUMBER OF DROPPED JOINT PIPE SECTIONS "N" IS DETERMINED BY (1) & (2) ABOVE. MINOR MODIFICATIONS IN THE RADIUS "R" ARE NORMALLY MADE SO THAT "N" WILL BE A WHOLE NUMBER.
4. PIPE SECTIONS SHALL BE ORIENTED SUCH THAT THE PLANE OF THE DROPPED JOINT IS AT RIGHT ANGLES TO THE THEORETICAL CIRCULAR CURVE. THE TOP OF SECTIONS ARE TO BE MARKED SO THAT THE DEFLECTION ANGLE IS PROPERLY ORIENTED.
5. DETAILS ARE SHOWN FOR CONCRETE PIPE. CURVED ALIGNMENT FOR C.M. PIPE SHALL BE AS RECOMMENDED BY THE MANUFACTURER AND APPROVED BY THE ENGINEER.
6. PAYMENT PER LIN. FT. PIPE INCLUDES PIPE SECTIONS WITH DROPPED JOINTS.

PIPE ELBOW SECTION (PRE-FABRICATED)

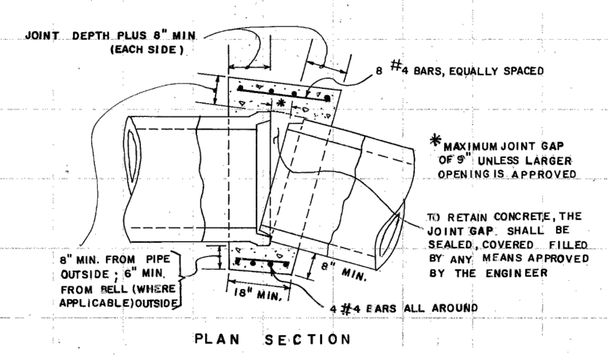


PLAN VIEW — SPLICE DETAIL (TYPICAL)

NOTE: SPLICE DETAIL IS SHOWN FOR DOUBLE CAGE REINFORCING, & IS SIMILAR FOR SINGLE GAGE REINFORCING, BUT WITH SINGLE SPLICE ALL AROUND BEING APPLICABLE.

NOTES FOR PIPE ELBOW:
1. PAYMENT FOR LIN. FT. OF PIPE INCLUDES ELBOWS.
2. ELBOW ANGLE Δ SHALL VARY ACCORDING TO NEED, BUT SHALL NOT BE GREATER THAN 45°. THE CONTRACTOR SHALL INFORM PRODUCER AS TO ANGLE REQUIRED.
3. (a) CONCRETE PIPE SHALL BE CUT BEFORE BEING CURED AND STEEL EXPOSED FROM EACH SIDE OF CUT.
(b) EXPOSED STEEL SHALL BE REJOINED. FILLER RODS AT LEAST EQUAL TO RODS IN PIPE SHALL BE ADDED AS NEEDED FOR HANDLING STRENGTH & TO HOLD GROUT.
(c) ALL VOID IN SPLICE SHALL BE PACKED WITH GROUT MORTAR RICH ENOUGH TO GIVE STRENGTH AT LEAST EQUAL TO REMOVED CONCRETE WITH INSIDE SMOOTHED OUT.
4. C.M. PIPE ELBOW NOT SHOWN, BUT MAY BE SPECIFIED. SOLID WELD SHALL BE REQUIRED FOR C.M. ELBOW JOINT WITH GALVANIZING AND/OR COATINGS REPAIRED AS REQ'D.

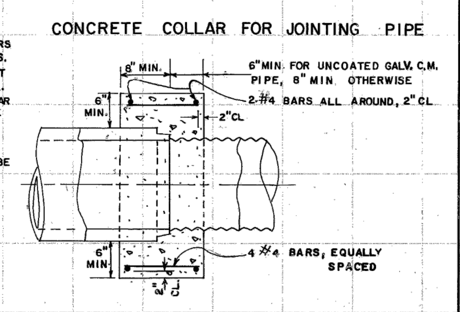
CONCRETE COLLAR FOR DEFLECTING PIPE



PLAN SECTION

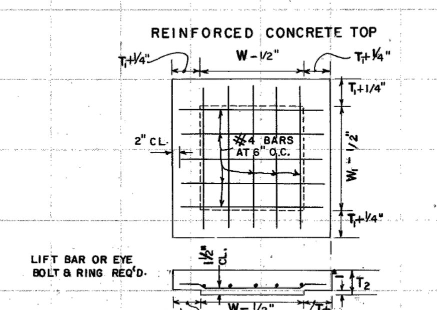
NOTES FOR CONCRETE COLLARS:
1. PERIMETERS OF CONCRETE COLLARS DO NOT HAVE TO BE SMOOTH LINES. COLLARS MAY BE FORMED AGAINST COMPACTED OR UNDISTURED SOIL. DIMENSIONS ARE MINIMUM. COLLAR MAY BE SQUARE, ROUND OR SHAPE MAY VARY SO LONG AS MINIMUM DIMENSIONS ARE OBTAINED.
2. ALL CONCRETE COLLARS ARE TO BE CONSTRUCTED WITH CLASS A CONCRETE.
3. PAYMENT FOR LIN. FT. OF PIPE INCLUDES COLLARS.

CONCRETE COLLAR FOR JOINTING PIPE



PLAN OR SIDE SECTION

REINFORCED CONCRETE TOP

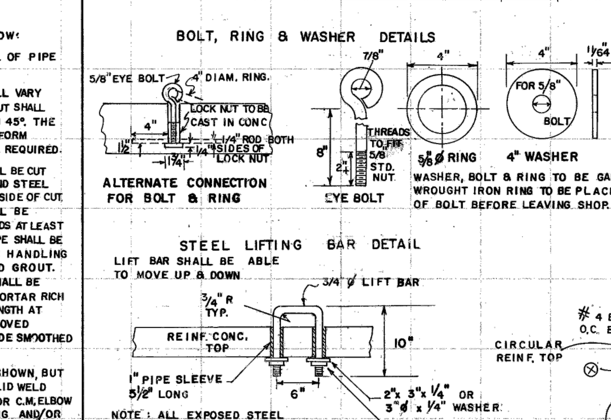


T_2 = 5 1/2" FOR W OR W_1 TO 3'-0"
T_2 = 8" FOR W OR W_1 OVER 3'-0"

DIMENSIONS FOR BRICK OR REINF. CONC. BOX			
PIPE SIZE	MIN W or W1	MIN. h	MIN. H
15"	2'-0"	1'-9"	2'-9"
18"	2'-3"	2'-1"	3'-1"
24"	2'-10"	2'-8"	3'-8"
30"	3'-5"	3'-3"	4'-3"
36"	4'-0"	3'-10"	4'-9"
42"	4'-7"	4'-5"	5'-5"
48"	5'-2"	5'-0"	6'-0"

SEE GEN. NOTE NO. 3

BOLT, RING & WASHER DETAILS — STEEL LIFTING BAR DETAIL

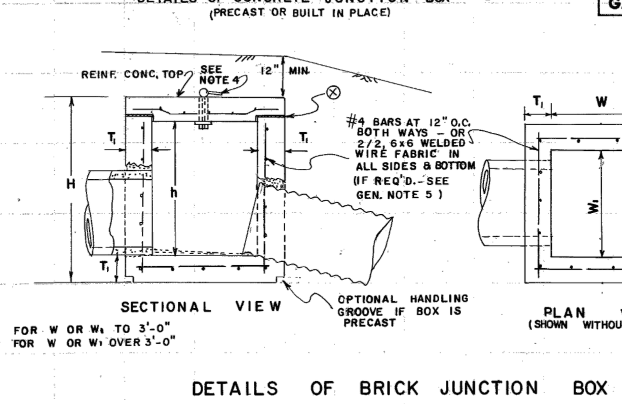


WASHER, BOLT & RING TO BE GALV. STEEL OR WROUGHT IRON RING TO BE PLACED IN EYE OF BOLT BEFORE LEAVING SHOP.

LIFT BAR SHALL BE ABLE TO MOVE UP & DOWN

NOTE: ALL EXPOSED STEEL COMPONENTS TO BE GALVANIZED.

DETAILS OF CONCRETE JUNCTION BOX
(PRECAST OR BUILT IN PLACE)

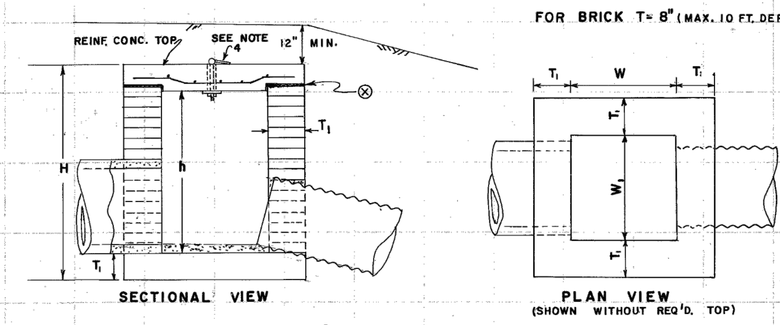


SECTIONAL VIEW — PLAN VIEW (SHOWN WITHOUT REQ'D. TOP)

T = 6" FOR CONCRETE

DETAILS OF BRICK JUNCTION BOX

FOR BRICK T = 8" (MAX. 10 FT. DEPTH)

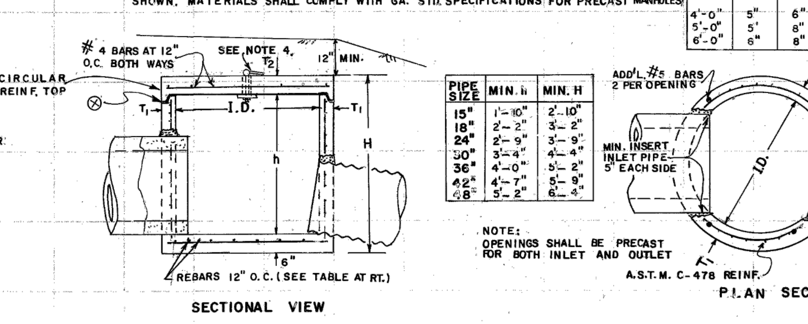


SECTIONAL VIEW — PLAN VIEW (SHOWN WITHOUT REQ'D. TOP)

⊗ PREVENT BOND WITH EITHER 30 LB. ASPHALT SATURATED FELT OR PREFORMED FOAM JOINT FILLER.

DETAILS OF CIRCULAR PRECAST JUNCTION BOX
(REINFORCING AND DESIGN SHALL COMPLY WITH A.S.T.M. C-478 EXCEPT AS OTHERWISE SHOWN. MATERIALS SHALL COMPLY WITH GA. STD. SPECIFICATIONS FOR PRECAST MANHOLES)

I.D.	T1 (MIN.)	T2 (MIN.)	MAX. PIPE CONC.	MAX. PIPE C.M.	REBARS IN BOTTOM
4'-0"	5"	6"	30"	36"	#5
5'-0"	5"	8"	42"	48"	#5
6'-0"	6"	8"	48"	54"	#6



SECTIONAL VIEW — PLAN SECTION

PIPE SIZE	MIN. h	MIN. H
15"	1'-10"	2'-10"
18"	2'-2"	3'-2"
24"	2'-9"	3'-9"
30"	3'-4"	4'-4"
36"	4'-0"	5'-2"
42"	4'-7"	5'-9"
48"	5'-2"	6'-4"

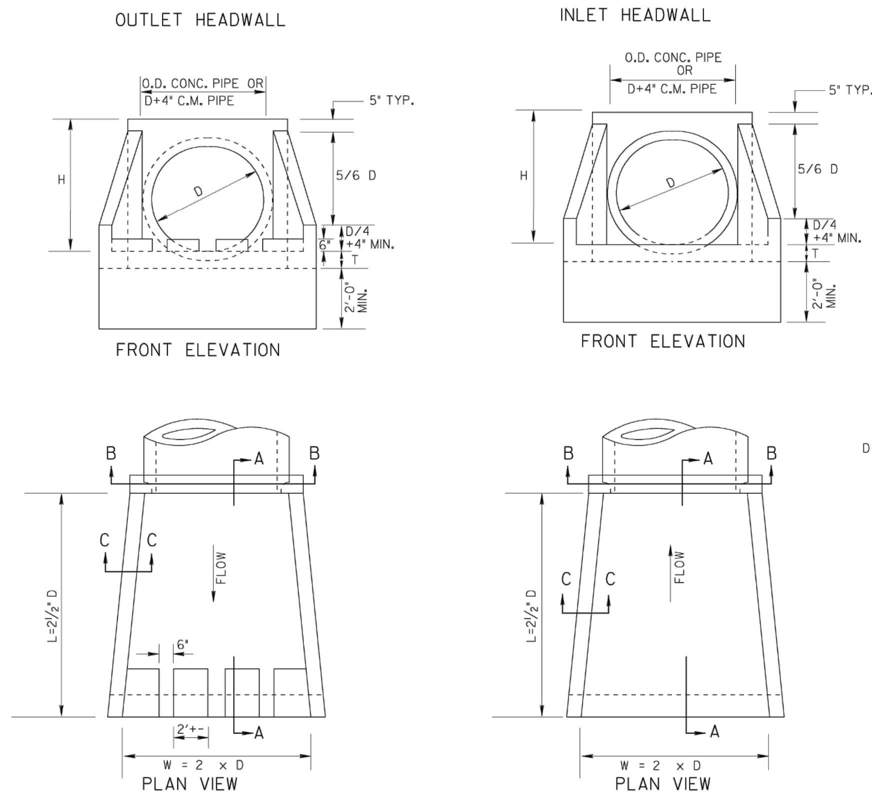
NOTE: OPENINGS SHALL BE PRECAST FOR BOTH INLET AND OUTLET

GENERAL NOTES:
1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO.
2. ILLUSTRATED PIPES, PIPE JOINTS, ALIGNMENT, SIZES, ETC. ARE SHOWN AS REPRESENTATIVE, ACTUAL REQUIREMENTS VARY PER LOCATION AS INDICATED IN THE PLANS.
3. JUNCTION BOXES DO NOT HAVE TO BE CONSTRUCTED SQUARE. W & W1 DIMENSIONS MAY VARY ACCORDING TO PIPE SIZE.
4. ALL JUNCTION BOX TOPS SHALL BE EQUIPPED WITH EITHER AN EYE BOLT & RING (SHOWN) OR A LIFTING BAR (ALTERNATE).
5. REINFORCING IS REQUIRED FOR ALL PRECAST JUNCTION BOXES. REINFORCING MAY BE OMITTED FOR BUILT IN PLACE CONCRETE BOXES NOT OVER 10 FT. DEEP AND NOT LARGER THAN 3' x 3', CONSTRUCTION JOINTS PERMITTED IF DOWELED OR KEYED, ALL JUNCTION BOX TOPS SHALL BE REINFORCED.

DEPARTMENT OF TRANSPORTATION — STATE OF GEORGIA
STANDARD — PRECAST OR BUILT IN PLACE JUNCTION BOXES, PIPE COLLARS, PIPE ELBOW & PIPE CURVED ALIGNMENT
NO SCALE — REV. & REDR. JULY 1985 — NUMBER 9031U
DES. RMU, DRW. RMU, TRA. GME, CHK. RKC — (SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR. — (APPROVED) STATE HIGHWAY ENGINEER

FORM EF6

OUTLET HEADWALL — INLET HEADWALL



FRONT ELEVATION — PLAN VIEW — W = 2 x D

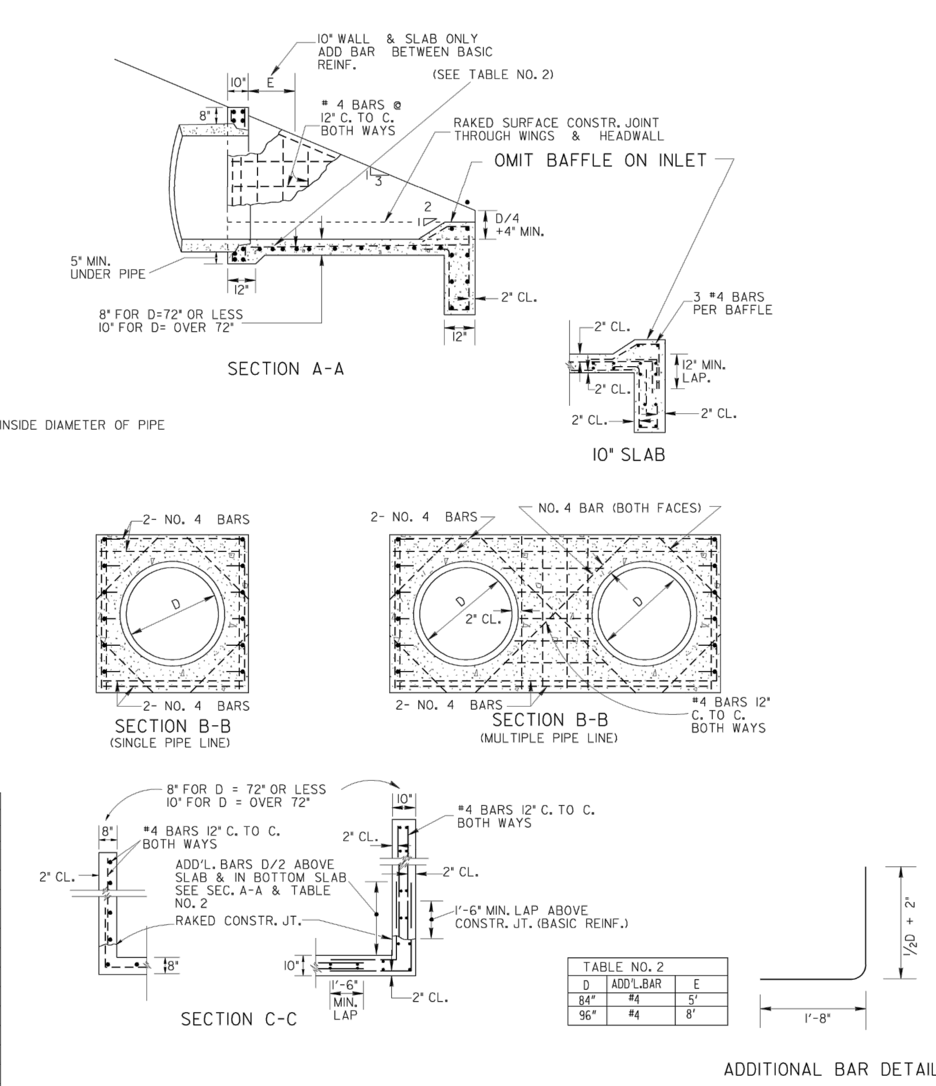
TABLE NO. 1 - QUANTITIES FOR HEADWALLS								
	CU. YDS. CONCRETE (PAY QUANTITIES)*				LBS. STEEL (GIVEN FOR INFORMATION ONLY)			
	FOR SINGLE LINE		ADD FOR ADD'L LINE		FOR SINGLE LINE		ADD FOR EACH ADD'L LINE	
D	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET	INLET	OUTLET
15"	0.87	0.93	0.60	0.66	102	113	73	83
18"	1.10	1.16	0.85	0.93	106	117	93	104
24"	1.61	1.69	1.29	1.37	127	138	124	134
30"	2.21	2.32	1.83	1.96	170	180	154	164
36"	2.92	3.05	2.49	2.63	238	254	196	212
42"	3.73	3.87	3.00	3.17	290	306	231	247
48"	4.62	4.80	3.58	3.74	335	351	265	281
54"	5.63	5.83	4.17	4.38	407	428	319	340
60"	6.72	6.95	4.82	5.01	456	477	360	391
72"	9.22	9.48	6.24	6.46	623	649	475	494
84"	14.84	15.19	9.05	9.29	1517	1539	1017	1044
96"	18.88	19.27	11.13	11.41	2118	2150	1323	1350

*NOTE: QUANTITIES SHOWN WILL BE ACTUAL PAY QUANTITIES FOR CLASS "A" CONCRETE, INCLUDING REINFORCED STEEL. NO ADJUSTMENT WILL BE MADE FOR AS BUILT QUANTITIES.

D - INSIDE DIAMETER OF PIPE CULVERT

H = D + 10" MIN. FOR C.M. PIPE
H = D + PIPE WALL THICKNESS + 8" FOR CONC. PIPE (13/12 D + 9" TYP.)

T = 8" FOR D = 72" OR LESS
T = 10" FOR D = OVER 72"



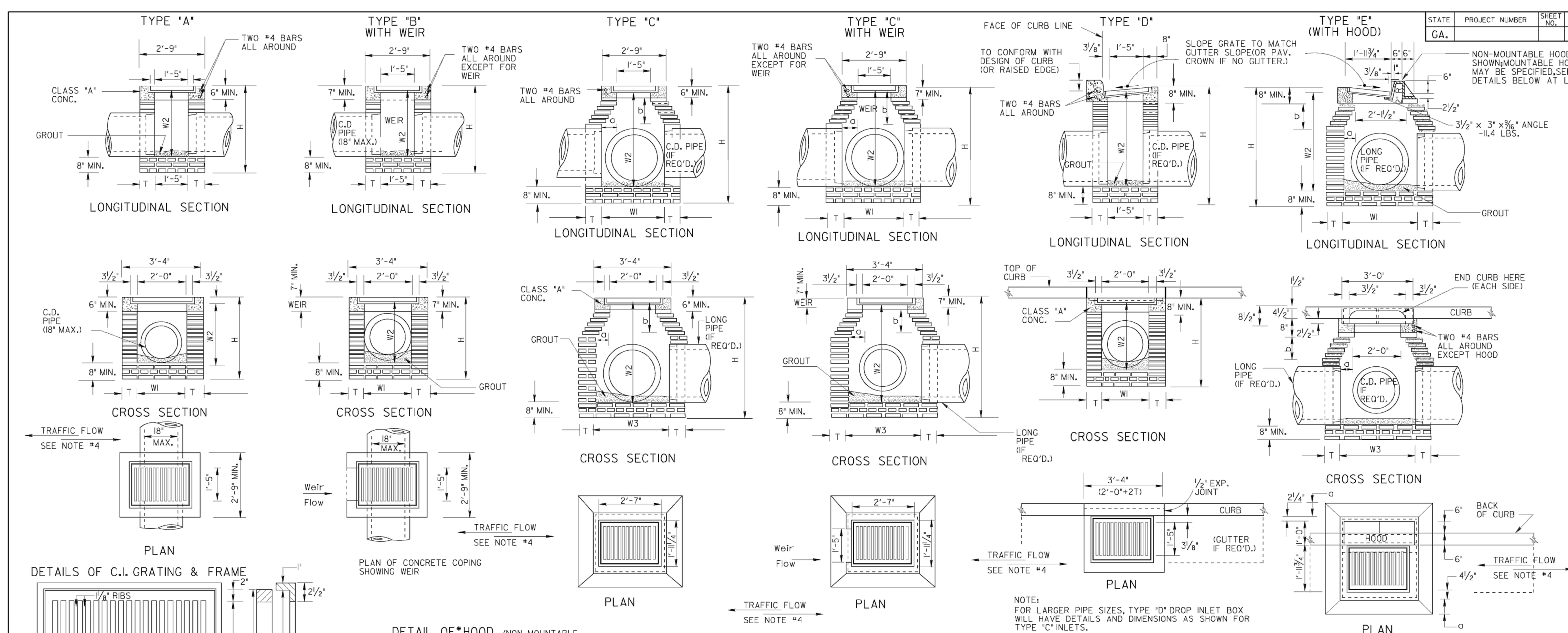
SECTION A-A — 10" SLAB — SECTION B-B (SINGLE PIPE LINE) — SECTION B-B (MULTIPLE PIPE LINE) — SECTION C-C — ADDITIONAL BAR DETAIL

D = INSIDE DIAMETER OF PIPE

TABLE NO. 2		
D	ADD'L.BAR	E
84"	#4	5'
96"	#4	8'

DEPARTMENT OF TRANSPORTATION — STATE OF GEORGIA
STANDARD — TAPERED INLET HEADWALL - OUTLET HEADWALL (BUILT-IN-PLACE)
NO SCALE — REV. & REDR. OCT., 1999 — NUMBER 1125
(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR. — (APPROVED) CHIEF ENGINEER

STANDARD DROP INLETS

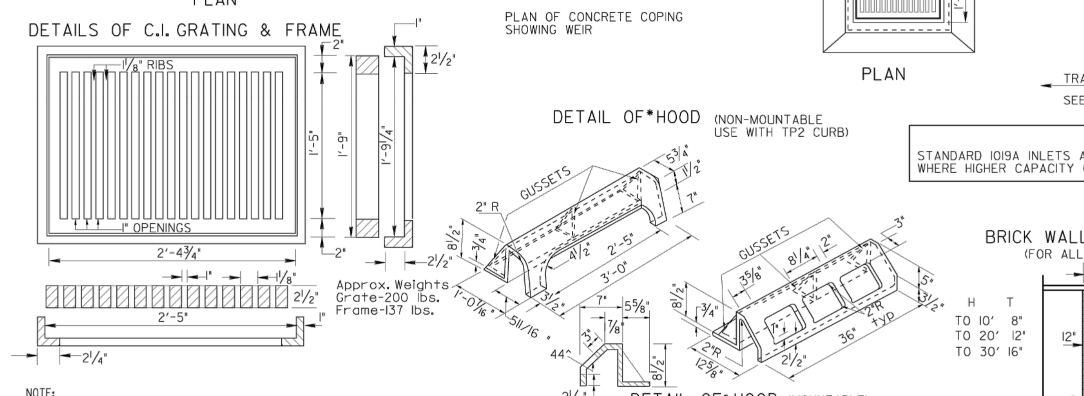


TYPE "A" — TYPE "B" WITH WEIR — TYPE "C" — TYPE "C" WITH WEIR — TYPE "D" — TYPE "E" (WITH HOOD): LONGITUDINAL SECTION — CROSS SECTION — PLAN

NOTE: FOR LARGER PIPE SIZES, TYPE "D" DROP INLET BOX WILL HAVE DETAILS AND DIMENSIONS AS SHOWN FOR TYPE "C" INLETS.

SPECIAL NOTE:
STANDARD 1019A INLETS ARE FOR USE AT LOW POINTS & WHERE HYDRAULIC LOW CAPACITY GRATES ARE SUFFICIENT. WHERE HIGHER CAPACITY GRATES ARE NEEDED ON A CONTINUOUS GRADE, STANDARD 1019B IS RECOMMENDED.

DETAILS OF C.I. GRATING & FRAME — DETAIL OF *HOOD



Approx. Weights Grate-200 lbs. Frame-137 lbs.

DETAIL OF *HOOD (NON-MOUNTABLE USE WITH TP2 CURB)
DETAIL OF *HOOD (MOUNTABLE) (use with Tp 7 Curb)

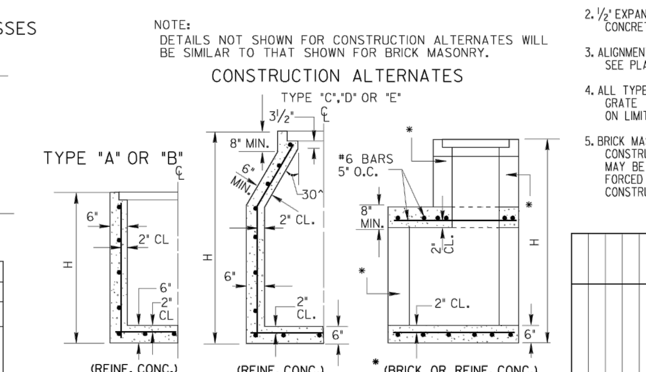
* CONTRACTOR SHALL SPECIFY EITHER MOUNTABLE OR NON-MOUNTABLE TO FOUNDRY IF HOOD IS REQUIRED.

BRICK WALL THICKNESSES
(FOR ALL TYPE INLETS)

H	T
TO 10'	8"
TO 20'	12"
TO 30'	16"

NOTE: DETAILS NOT SHOWN FOR CONSTRUCTION ALTERNATES WILL BE SIMILAR TO THAT SHOWN FOR BRICK MASONRY.

CONSTRUCTION ALTERNATES



TYPE "A" OR "B" (REINF. CONC.) — TYPE "C", "D" OR "E" (REINF. CONC.) — * (BRICK OR REINF. CONC.)

NOTE: CONCRETE WALLS WILL BE REINFORCED WITH #4 BARS 12" O.C. BOTH WAYS, BUT WHERE H IS OVER 9 FT., AND PIPE IS OVER 30" I.D., THE HORIZONTAL STEEL, WHICH IS MORE THAN 9 FT. DEEP WILL BE INCREASED TO 6" SPACINGS. 6" CONC. BOTTOM SLABS WILL BE REINFORCED WITH #4 BARS 12" O.C. BOTH WAYS.

NOTE: FOR PRECAST ALTERNATES, SEE STD. 1019-A PRECAST AND/OR STD. 1040 PRECAST AND BUILT-IN-PLACE COMPONENTS MAY BE USED IN COMBINATIONS WHICH PROVIDE PROPER FITS AND STRUCTURAL ADEQUACY.

NOTE:
MINIMUM DIMENSIONS GIVEN IN TABLE BELOW ARE BASED UPON TYPICAL OUTSIDE DIAMETERS OF CONCRETE PIPES WITH NORMAL COVER AND CLEARANCES, THESE DIMENSIONS MAY BE MODIFIED IF SO DETAILED IN THE PLANS OR AS DIRECTED BY THE ENGINEER, DIMENSIONS GIVEN ARE MINIMUM EXCEPT FOR "a" WHICH IS MAXIMUM.

TABLE OF MINIMUM DIMENSIONS FOR DROP INLETS

D	TYPES "A" or "B" BRICK OR REINF. CONC. W1	W2	H(min)	TYPE "C" OR "D" (BRICK) W1	W2	W3	a (MAX.)	b	H(min.)
15"	2'- 0"	2'- 7"	3'-3 1/2"	2'-2 1/8"	2'-11"	2'-9 1/8"	0'-4 9/16"	0'-7 7/8"	3'-9 1/2"
18"	2'- 0"	2'-10"	3'- 7"	2'-2 1/8"	3'-2 1/2"	2'-9 1/8"	0'-4 9/16"	0'-7 7/8"	4'-1"
24"	~	~	~	2'-8 1/8"	3'-3 1/8"	3'-3 1/8"	0'-7 9/16"	1'-1 1/8"	4'- 9"
30"	~	~	~	3'-7 1/4"	4'-0 1/4"	3'-10 1/16"	1'-0 1/8"	1'- 9"	5'-10"
36"	~	~	~	4'-1 7/8"	6'-0 5/8"	4'-8 7/8"	1'-4 7/16"	2'-2 1/4"	6'-11 1/8"
42"	~	~	~	4'-5"	7'-1 3/4"	5'- 0"	1'- 6"	2'-7 3/16"	8'-0 1/4"
48"	~	~	~	5'- 0"	8'-2 3/4"	5'- 7"	1'-9 1/2"	3'-1 1/4"	9'-1 1/4"
54"	~	~	~	5'- 7"	9'- 4"	6'- 2"	2'- 1"	3'-7 1/2"	10'-2 1/2"
60"	~	~	~	6'- 2"	1'-4 7/8"	6'- 9"	2'-4 1/2"	4'-1 3/8"	11'-3 1/4"

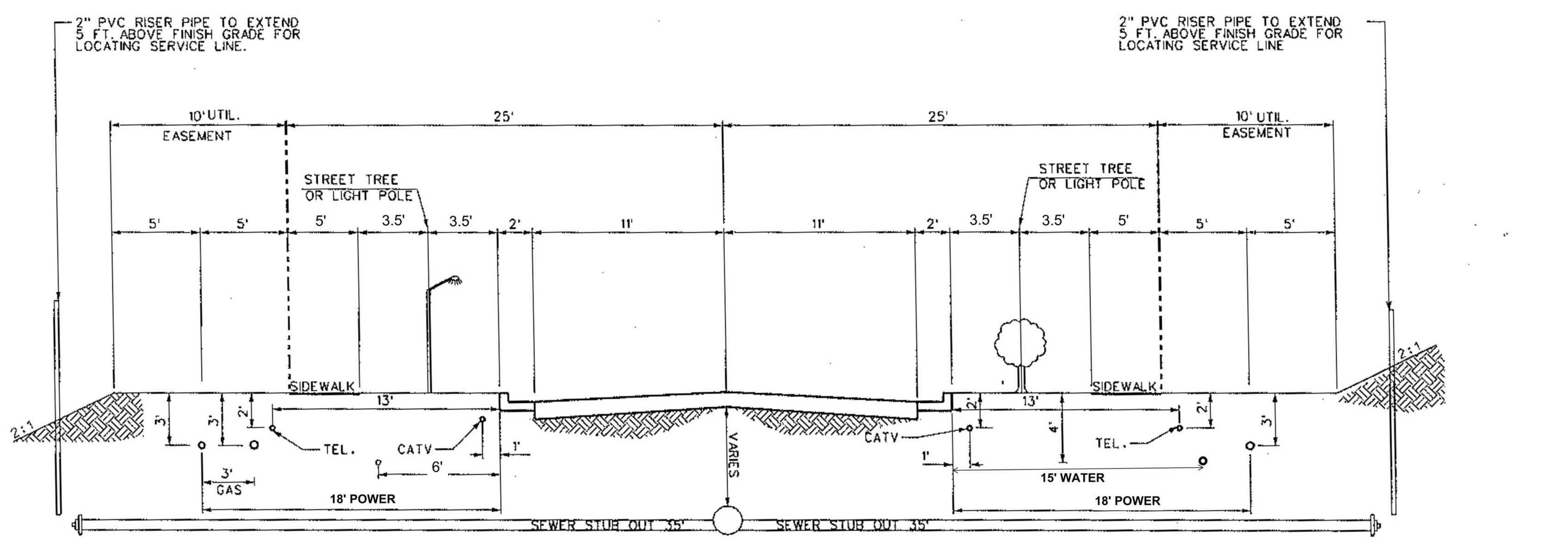
D	TYPE "E" (BRICK) W1	W2	W3	a (MAX.)	b	H(min.)
15"	3'-2 1/8"	3'- 1"	3'-0 5/8"	0'-7 9/16"	1'-1 1/8"	3'-11 1/2"
18"	3'-2 1/8"	3'-4 1/2"	3'-0 5/8"	0'-7 9/16"	1'-1 1/8"	4'- 1"
24"	3'-2 1/8"	3'-11 1/2	3'-0 5/8"	0'-7 9/16"	1'-1 1/8"	4'-8 1/4"
30"	3'-5 1/2"	4'-8 3/8"	3'- 4"	0'- 8"	1'-1 7/8"	5'-6 7/8"
36"	3'-11 1/2	5'-8 9/16"	3'-10"	0'-11"	1'-7 1/16"	6'-7 1/16"
42"	4'-6 1/2"	7'-5 11/16"	4'- 5"	1'-2 1/2"	2'-1 3/16"	8'-4 3/16"
48"	5'-1 1/2"	8'-6 11/16"	5'- 0"	1'- 6"	2'-7 3/16"	9'-5 3/16"
54"	5'-8 1/2"	9'-7 3/4"	5'- 7"	1'-9 1/2"	3'-1 1/4"	10'-6 1/4"
60"	6'-3 1/2"	10'-8 13/16"	6'- 2"	2'- 1"	3'-7 5/16"	11'-7 5/16"

D	TYPE "C", "D" OR "E" (REINFORCED CONCRETE) W1 type "C"	W1 type "E"	W2	W3	a (MAX.)	b	H(min.)
15"	2'- 0"	2'- 1"	2'- 7"	2'- 0"	3 1/2"	6"	3'- 6"
18"	2'- 0"	2'- 1"	3'- 0"	2'- 0"	3 1/2"	6"	3'-11"
24"	2'- 8"	2'- 9"	3'- 8"	2'- 6"	6 1/2"	11 1/4"	4'- 7"
30"	3'- 4"	3'- 6"	4'- 9"	3'- 0"	9 1/2"	16 1/2"	5'-10"
36"	3'-10"	4'- 0"	5'-10"	3'- 9"	1'- 2"	2'- 0"	6'-10"
42"	4'- 5"	4'- 6"	7'- 0"	4'- 3"	1'- 5"	2'-5 1/2"	7'-11"
48"	5'- 0"	5'- 0"	8'- 2"	5'- 0"	1'-9 1/2"	3'-1 1/2"	9'- 2"
54"	5'- 6"	5'- 6"	9'- 2"	5'- 6"	2'-0 1/2"	3'-6 1/2"	10'- 0"
60"	6'- 0"	6'- 0"	10'- 3"	6'- 0"	2'-3 1/2"	4'- 0"	11'- 1"

GENERAL NOTES:
1. SPECIFICATIONS: GEORGIA STANDARD AND CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE RIGID PAVEMENT, CONCRETE SIDEWALK OR CONCRETE GUTTER MEETS DROP INLETS.
3. ALIGNMENT, NUMBER AND SIZES OF PIPES SHOWN ARE ONLY TYPICAL, SEE PLANS FOR ACTUAL PIPE CULVERT REQUIREMENTS.
4. ALL TYPE DROP INLETS WILL BE CONSTRUCTED (AS SHOWN), SO THAT THE GRATE BARS ARE PERPENDICULAR TO THE FLOW OF TRAFFIC EXCEPT ON LIMITED ACCESS PROJECTS OR WHERE BICYCLES ARE PROHIBITED.
5. BRICK MASONRY WITH CLASS "A" CONC. TOP PORTION IS SHOWN AS STANDARD CONSTRUCTION WITH ALTERNATES PERMITTED AS SHOWN, BOTTOM SLAB MAY BE 8" MIN. NON-REINFORCED CONCRETE, 8" BRICK OR 6" MIN. REINFORCED CONCRETE, SEE APPLICABLE STANDARDS FOR ALTERNATE PRECAST CONSTRUCTION.

DEPARTMENT OF TRANSPORTATION — STATE OF GEORGIA
STANDARD DROP INLETS (BUILT-IN-PLACE)
SCALE AS SHOWN — REV. & REDR. AUG., 1999 — NUMBER 1019A
(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR. — (APPROVED) CHIEF ENGINEER

Henry County Local Street Utility Standard With Street Trees / Lights

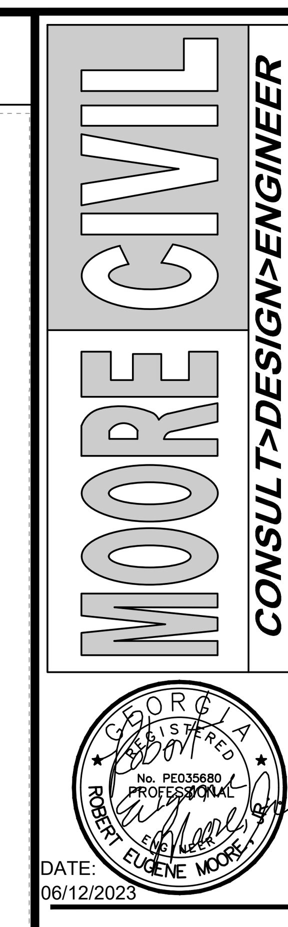


1. ALL TREES SHALL BE CLEARED & SHOULDERS GRADED WITHIN 6" OF FINAL GRADE (INCLUDING UTILITY PLACEMENT) PRIOR TO INSTALLATION OF ANY UTILITIES.
2. UTILITY PLACEMENT SHALL REMAIN CONSISTENT FROM BACK OF CURB THROUGHOUT THE PROJECT REGARDLESS OF ANY INCONSISTENCIES IN ROAD CONSTRUCTION. EXAMPLES: STORM SEWERS, CULVERTS, CUL-DE-SACS, ETC. (EXCEPT CATV).
3. AFTER VERIFICATION OF FINAL GRADE, UTILITIES SHOULD BE INSTALLED AS FOLLOWS: WATER, ELECTRIC, GAS, TELEPHONE, & CATV.
4. TOTAL CLEARED AND GRADED WIDTH TO BE 70' MINIMUM.
5. PROPERTY CORNER REFERENCE SHALL BE PLACED ON CURB & GUTTER AND ON 10' OFFSET STAKE.
6. UTILITY EASEMENT SHALL BE SHOWN & RECORDED WITH THE FINAL PLAT.
7. WATER METER BOXES SHALL BE LOCATED AT 10' BACK OR R/W. SEWER SERVICES SHALL BE STUBBED OUT AT 10' BACK OF R/W.
8. WATER LATERALS SHALL BE MARKED WITH A BLUE "W" ON CURB AS SOON AS POSSIBLE AFTER CURB HAS BEEN INSTALLED. SEWER LATERALS SHALL BE MARKED WITH A GREEN X ON CURB.
9. DEPTH REQUIREMENTS INDICATE THE MINIMUM DEPTH REQUIRED AT TIME OF INSTALLATION.
10. THIS STANDARD MAY BE COMBINED WITH JOINT-USE STANDARD.
11. CATV PEDESTAL, TELEPHONE PEDESTALS, TRANSFORMERS, AND WATER METERS SHALL BE PLACED IN THE BACK 5' OF THE UTILITY EASEMENT.
12. UTILITIES SHALL BE LOCATED WITHIN ± 6" OF PLAN LOCATION
13. FIRE HYDRANTS TO BE LOCATED ON THE BACK SIDE OF WATER MAIN, NO TREES SHALL BE PLANTED WITHIN 25' OF FIRE HYDRANT LOCATIONS.

Henry County Local Street Utility Standard With Street Trees / Lights

Not To Scale

Figure 8.8



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REVISIONS:

6/21/22	GRADING PLAN
10/21/22	1st LDP SUBMITTAL
10/21/22	1ST GDOT SUBMITTAL
01/30/2023	NEW LAYOUT
02/21/2023	NEW LAYOUT
05/09/2023	2nd LDP SUBMITTAL
05/09/2023	2nd GDOT SUBMITTAL
12/19/2023	3rd GDOT SUBMITTAL
12/19/2023	3rd LDP SUBMITTAL
03/05/2023	4rd LDP SUBMITTAL
03/05/2023	3rd GDOT SUBMITTAL
04/24/2024	6TH GDOT SUBMITTAL
05/21/2024	7TH GDOT SUBMITTAL
12/12/2024	8TH GDOT SUBMITTAL
03/06/2025	5TH LDP SUBMITTAL
07/03/2025	6TH LDP SUBMITTAL

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SHEET TITLE: CONSTRUCTION DETAILS

SHEET NUMBER: C.840