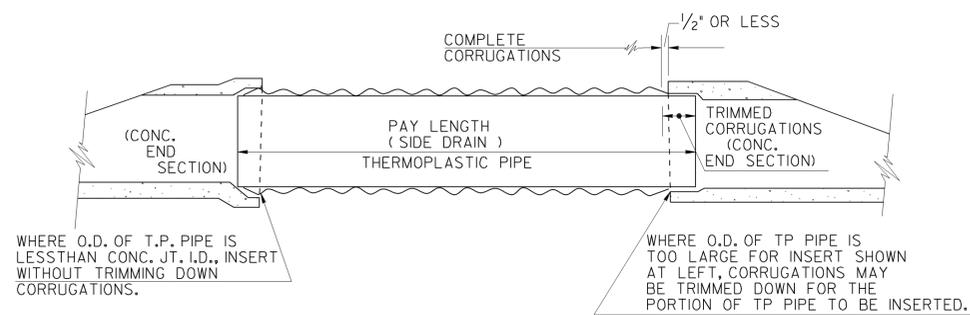
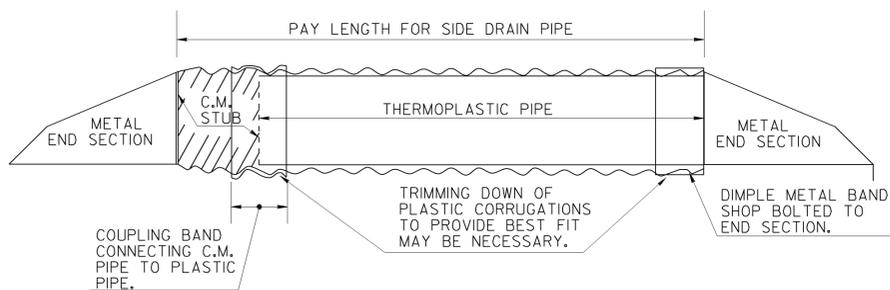


CONCRETE TO THERMOPLASTIC SIDE DRAIN OR CROSS DRAIN CONNECTION ALTERNATES

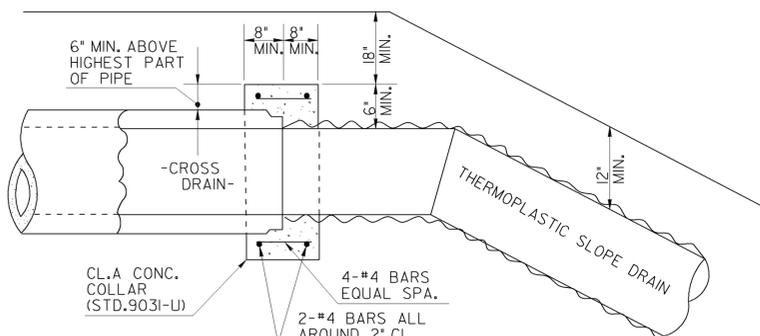


METAL TO THERMOPLASTIC SIDE DRAIN CONNECTION ALTERNATES (SEE GENERAL NOTE NO. 5)



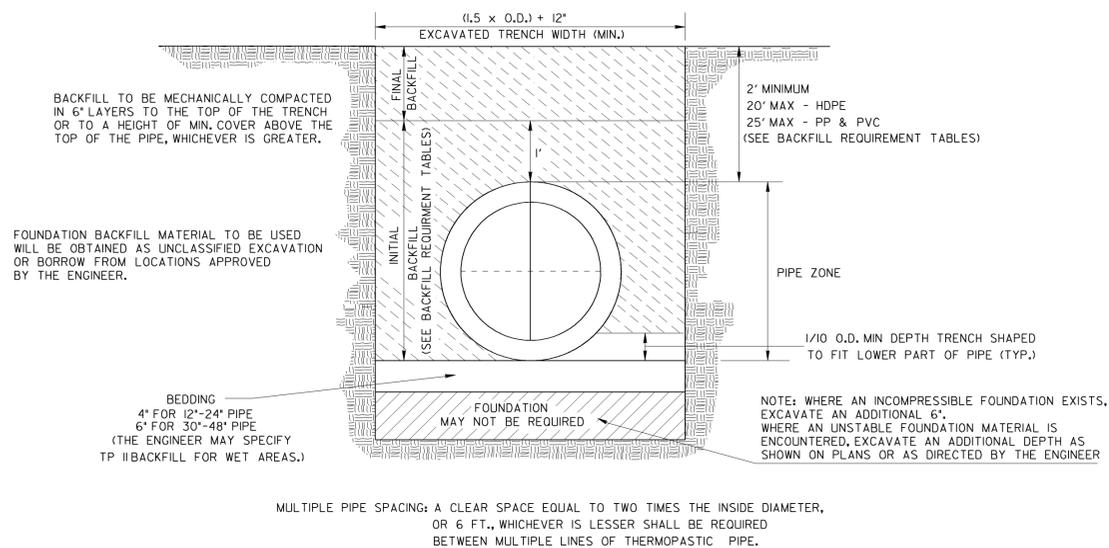
NOTE: FOR PLASTIC SIDE DRAIN CONNECTIONS TO SAFETY END SECTIONS, SEE THE SMOOTH TAPERED SLEEVE CONNECTOR DETAILS (SEE GA STANDARD I122 FOR SAFETY SLOPE END SECTIONS FOR SIDE DRAIN PIPES).

CROSS DRAIN TO THERMOPLASTIC SLOPE DRAIN CONNECTION



NOTES: PAYMENT FOR LIN. FT. OF PIPE SHALL INCLUDE THE CONCRETE COLLAR. CONCRETE COLLARS ARE ALSO PERMITTED FOR SIDE DRAIN CONNECTIONS. CONNECTIONS SHOWN ABOVE FOR SIDE DRAIN ARE NOT PERMITTED FOR SLOPE DRAIN CONNECTIONS.

THERMOPLASTIC PIPE TRENCH INSTALLATIONS



MULTIPLE PIPE SPACING: A CLEAR SPACE EQUAL TO TWO TIMES THE INSIDE DIAMETER, OR 6 FT., WHICHEVER IS LESSER SHALL BE REQUIRED BETWEEN MULTIPLE LINES OF THERMOPLASTIC PIPE.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.			

ALLOWABLE PIPE SIZES

HIGH DENSITY POLYETHYLENE (HDPE) AASHTO M 294	POLYPROPYLENE (PP) AASHTO M 330	PROFILE WALL POLYVINYL CHLORIDE (PVC) AASHTO M 304	CORRUGATED SMOOTH INTERIOR POLYVINYL CHLORIDE (PVC) ASTM F 949
NOMINAL SIZE (IN.)	NOMINAL SIZE (IN.)	NOMINAL SIZE (IN.)	NOMINAL SIZE (IN.)
12	12	12	12
15	15	15	15
18	18	18	18
24	24	21	21
30	30	24	24
36	36	30	30
42	42	36	36
48	48	42	36
		48	

BACKFILL REQUIREMENT TABLES

PIPE TYPE	MAX. FILL HEIGHT (FT)	INITIAL BACKFILL TYPE	FOUNDATION BACKFILL TYPE
HDPE	20	STRUCTURAL	CLASS II B2 OR BETTER
PVC	25	STRUCTURAL	CLASS II B3 OR BETTER
PP	25	STRUCTURAL	CLASS II B3 OR BETTER

PIPE TYPE	MAX. FILL HEIGHT (FT)	INITIAL BACKFILL TYPE	FOUNDATION BACKFILL TYPE
HDPE	10	CLASS II B2 OR BETTER	CLASS II B2 OR BETTER
PVC	10	CLASS II B3 OR BETTER	CLASS II B3 OR BETTER
PP	10	CLASS II B3 OR BETTER	CLASS II B3 OR BETTER

PIPE TYPE	MAX. FILL HEIGHT (FT)	INITIAL BACKFILL TYPE	FOUNDATION BACKFILL TYPE
HDPE	20	STRUCTURAL	CLASS II B2 OR BETTER
PVC	25	STRUCTURAL	CLASS II B3 OR BETTER
PP	25	STRUCTURAL	CLASS II B3 OR BETTER

NOMINAL SIZE (IN.)	INITIAL BACKFILL (FT ³ /LF)	BEDDING (FT ³ /LF)
12	4.22	0.83
15	5.24	0.96
18	6.36	1.08
24	8.86	1.33
30	11.72	2.38
36	14.94	2.75
42	18.51	3.13
48	22.44	3.50

NOTE: BACKFILL AND BEDDING QUANTITIES ARE BASED ON TYPICAL I.D. OF PIPES

GENERAL NOTES:

- SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION & SUPPLEMENTS THERETO.
- THE MINIMUM COVER SHALL BE 24" FOR STORM AND SIDE DRAINS AND 12" FOR SLOPE DRAIN PIPE.
- THE MAXIMUM HEIGHT OF FILL SHALL BE:
 - 20' FOR HIGH DENSITY POLYETHYLENE (HDPE)
 - 25' FOR POLYVINYL CHLORIDE (PVC)
 - 25' FOR POLYPROPYLENE (PP)
- MINIMUM PIPE STIFFNESS SHALL BE IN ACCORDANCE WITH AASHTO M 294, TYPE "S" FOR HDPE PIPE, AASHTO M 304 FOR PROFILE WALL PVC PIPE, AASHTO M 330 FOR PP PIPE, AND ASTM F 949 FOR CORRUGATED SMOOTH INTERIOR PVC PIPE.
- METAL FLARED END SECTIONS PER STD. I120 ARE PERMITTED ONLY WHERE THE PLANS LIST PLAIN CORRUGATED STEEL PIPE AS AN ALLOWABLE ALTERNATE FOR THE CULVERT.
- GRADED AGGREGATE MEETING SUBSECTION 815.2.01 SHALL BE USED FOR STRUCTURAL BACKFILL IN ACCORDANCE WITH BACKFILL REQUIREMENT TABLES AND WILL NOT BE PAID FOR SEPARATELY. PAYMENT WILL BE INCLUDED IN THE OVERALL PRICE BID FOR PIPE.
- NORMAL BACKFILL MATERIAL MEETING SUBSECTION 810.2.01 MAY BE USED FOR SIDE DRAIN APPLICATIONS FOR FILL HEIGHTS UP TO 10 FT IN ACCORDANCE WITH TYPE AND CLASS LISTED IN THE BACKFILL REQUIREMENT TABLES. IF THE REQUIRED SOIL CLASS IS NOT AVAILABLE USE GRADED AGGREGATE MATERIAL MEETING SUBSECTION 815.2.01.

DATE		DEPARTMENT OF TRANSPORTATION	
		STATE OF GEORGIA	
REVISION		STANDARD	
		THERMOPLASTIC PIPE	
		NO SCALE	
BY	DESIGNED	(SUBMITTED)	NUMBER
	TRACED	(APPROVED)	
	DRAWN B.J.O.	W.D.I.	DESIGNED BY STATE DESIGN POLICY ENGINEER
	CHECKED		DRAWN BY MARGARET B. PUKLO
			CHECKED BY