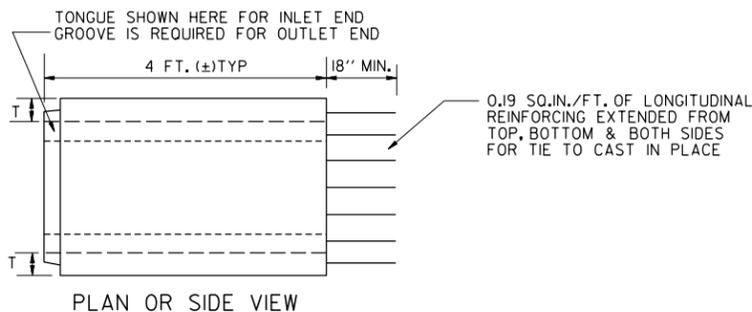
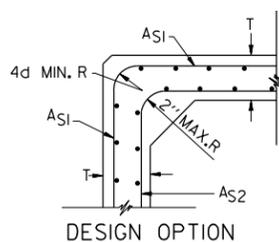
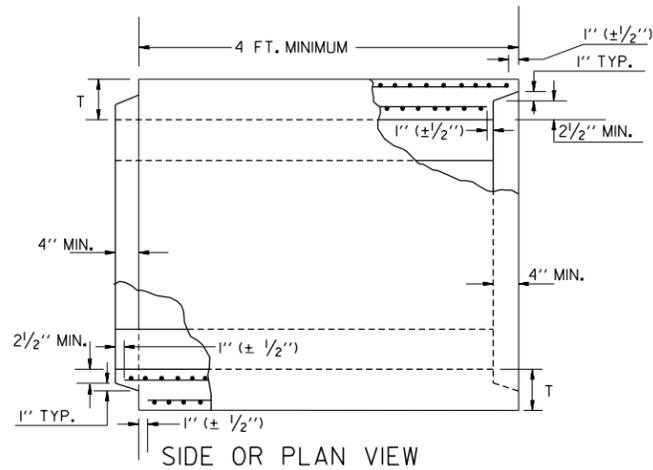
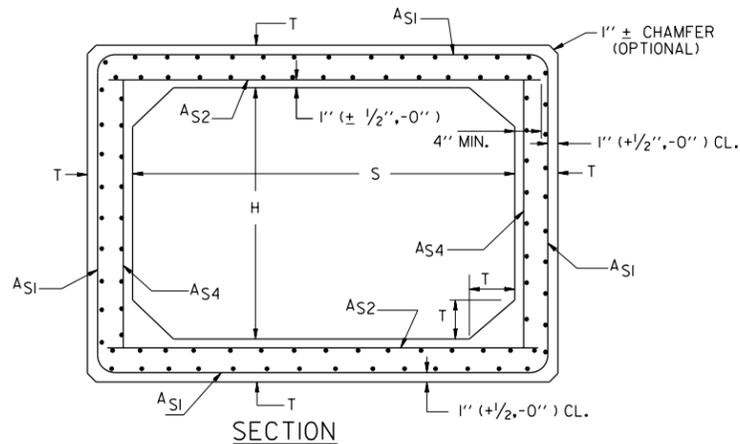
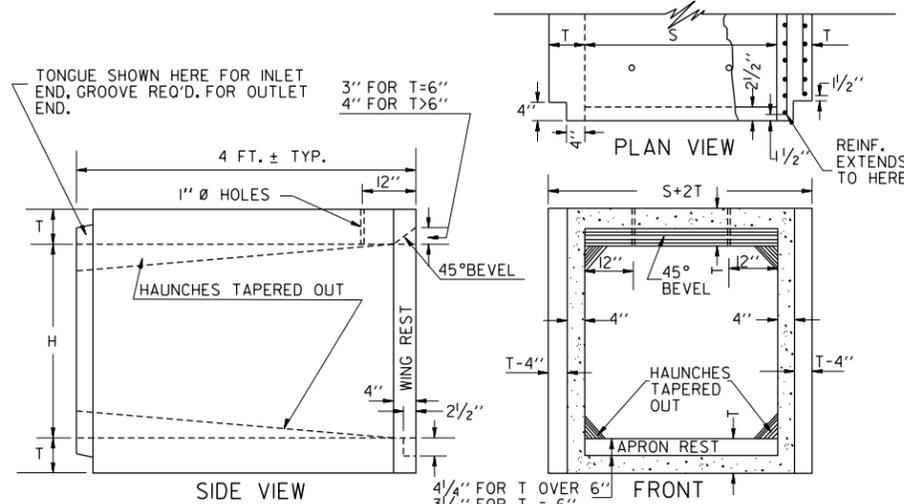


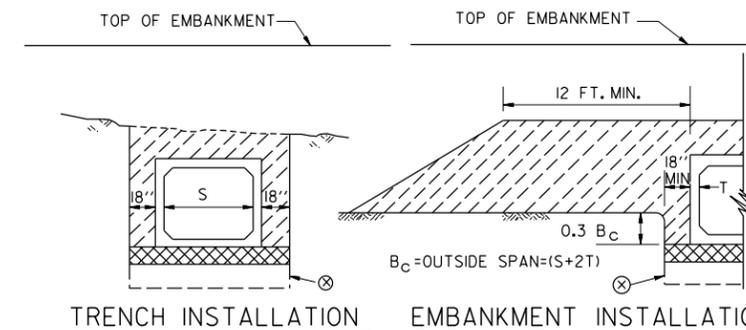
CULVERT SIZE		DESIGN I-A 2 FT. MINIMUM COVER					DESIGN I-B 3 FT. MINIMUM COVER					CULVERT SIZE	
CLEAR SPAN (FT.)	CLEAR HEIGHT (FT.)	T (INCHES)	MINIMUM AREAS OF CIRCUMFERENTIAL REINFORCING STEEL (SQ. IN. PER LIN. FT.)			MAXIMUM FILL HEIGHTS (FEET)	MINIMUM AREA OF CIRCUMFERENTIAL REINFORCING STEEL (SQ. IN. PER LIN. FT.)			MAXIMUM FILL HEIGHTS (INCHES)	CLEAR HEIGHT (FT.)	CLEAR SPAN (FT.)	
			AS1	AS2	AS4		AS1	AS2	AS4				
4'	3	6	0.21	0.27	0.12	16	0.13	0.18	0.12	10	6	3	
	4	6	0.18	0.30	0.12	16	0.12	0.19	0.12	10	6	4	
	5	6	0.24	0.33	0.14	16	0.15	0.23	0.14	10	6	5	
	6	7	0.27	0.37	0.17	16	0.20	0.27	0.17	10	6	6	
5'	3	6	0.26	0.29	0.14	16	0.17	0.21	0.14	10	6	3	
	4	6	0.24	0.33	0.14	16	0.16	0.23	0.14	10	6	4	
	5	6	0.20	0.35	0.14	16	0.14	0.25	0.14	10	6	5	
	6	7	0.25	0.39	0.17	16	0.18	0.29	0.17	10	7	6	
6'	3	7	0.32	0.33	0.17	16	0.23	0.23	0.17	10	7	3	
	4	7	0.27	0.37	0.17	16	0.20	0.27	0.17	10	7	4	
	5	7	0.25	0.39	0.17	16	0.18	0.29	0.17	10	7	5	
	6	7	0.23	0.41	0.17	16	0.17	0.30	0.17	10	7	6	
7'	4	8	0.35	0.41	0.19	16	0.25	0.27	0.19	10	8	4	
	5	8	0.31	0.44	0.19	16	0.23	0.29	0.19	10	8	5	
	6	8	0.28	0.42	0.19	14	0.21	0.34	0.19	10	8	6	
	7	8	0.26	0.44	0.19	14	0.19	0.36	0.19	10	8	7	
8'	4	8	0.43	0.40	0.19	10	0.33	0.30	0.19	8	8	4	
	5	8	0.38	0.43	0.19	10	0.30	0.33	0.19	8	8	5	
	6	8	0.35	0.47	0.19	10	0.27	0.35	0.19	8	8	6	
	7	8	0.33	0.50	0.19	10	0.25	0.38	0.19	8	8	7	
	8	8	0.31	0.53	0.19	10	0.24	0.43	0.19	8	8	8	
9'	4	9	0.47	0.45	0.22	10	0.38	0.38	0.22	8	9	4	
	5	9	0.43	0.45	0.22	10	0.35	0.39	0.22	8	9	5	
	6	9	0.40	0.48	0.22	10	0.32	0.42	0.22	8	9	6	
	7	9	0.37	0.52	0.22	10	0.30	0.45	0.22	8	9	7	
	8	9	0.35	0.54	0.22	10	0.28	0.47	0.22	8	9	8	
	9	9	0.33	0.57	0.22	10	0.27	0.49	0.22	8	9	9	
10'	4	10	0.35	0.61	0.24	10	0.30	0.55	0.24	8	10	4	
	5	10	0.47	0.46	0.24	10	0.41	0.42	0.24	8	10	5	
	6	10	0.44	0.50	0.24	10	0.38	0.45	0.24	8	10	6	
	7	10	0.41	0.53	0.24	10	0.35	0.48	0.24	8	10	7	
	8	10	0.38	0.56	0.24	10	0.33	0.51	0.24	8	10	8	
	9	10	0.36	0.60	0.24	10	0.32	0.53	0.24	8	10	9	
	10	10	0.35	0.61	0.24	10	0.30	0.55	0.24	8	10	10	



CONNECTOR BOX TYPE C
(USE FOR CONNECTION TO CAST-IN-PLACE)



CONNECTOR BOX TYPE P
(USE FOR CONNECTION TO PRECAST ENDS)



- 6" MIN. DEPTH OF FOUNDATION BACKFILL MATERIAL TYPE II FOR WET AREAS OR 3" MIN. DEPTH FOUNDATION BACKFILL MATERIAL TYPE I OTHERWISE. TYPE I AND II MATERIAL BOTH MAY BE USED IF SPECIFIED. CLASS I SOIL SHALL BE REQUIRED FOR TYPE I BACKFILL MATERIAL.
- NORMAL BACKFILL COMPACTED IN 6" LAYERS BROUGHT UP EVENLY ON BOTH SIDES OF CULVERT FROM TOP OF BEDDING TO MINIMUM REQUIRED COVER.

⊗ FOR AN INCOMPRESSIBLE FOUNDATION, INCREASE TRENCH UNDER BOX TO 12" MINIMUM, WHERE AN UNSTABLE MATERIAL IS ENCOUNTERED, ADDITIONAL EXCAVATION AND BACKFILLING TO DEPTHS AND WIDTHS SPECIFIED BY THE ENGINEER IS REQUIRED.

TYPICAL FILLERS MATERIALS ALTERNATES	SPACE "X"
CL. B CONC.	4" ±

NOTE: PAYMENT FOR CULVERT INCLUDES FILLER.
THE DIMENSION "X" SHALL BE COMPATIBLE WITH CULVERT END TREATMENT AND APRON WIDTHS. SPACERS SHALL BE USED BETWEEN BOXES IF BACKFILLED BEFORE FILLER SETS UP.

NOTE: A CULVERT COMBINATION HAVING A TOTAL CLEAR SPAN & HEIGHT EQUAL TO OR EXCEEDING THAT SPECIFIED MAY BE SUBSTITUTED, EXAMPLE: A TRIPLE 6'x6' MAY BE SUBSTITUTED FOR A DOUBLE 9'x6' OR VICE VERSA.

GENERAL NOTES:

- SPECIFICATIONS: GA. STANDARD, CURRENT EDITION, AND SUPPLEMENTS THERETO. CONCRETE SHALL CONFORM TO SECTION 843, 5000 P.S.I. MINIMUM.
- REINFORCING REQUIREMENTS NOT SHOWN SHALL BE ACCORDING TO A.A.S.H.T.O. M-259. MINIMUM CLEARANCE FOR CIRCUMFERENTIAL REINFORCEMENT SHALL BE 1 INCH, WITH LESS THAN 1 INCH OF CLEARANCE BEING CAUSE FOR REJECTION.
- ALL JOINTS BETWEEN PRECAST SECTIONS SHALL BE TONGUE & GROOVE WITH JOINT MATERIAL. JOINTS BETWEEN CAST-IN-PLACE AND PRECAST SECTIONS SHALL HAVE LONGITUDINAL STEEL EXTENDING FROM TOP, BOTTOM AND BOTH SIDE SLABS OF THE PRECAST BOX TIED TO THE CAST-IN-PLACE REINFORCEMENT.
- CULVERTS LARGER THAN THE SPECIFIED SIZE MAY BE SUBSTITUTED WITH PAYMENT BEING BASED UPON THE SPECIFIED SIZE RATHER THAN THE SUBSTITUTION, SUCH A SUBSTITUTION MUST BE APPROVED BY THE ENGINEER. MINIMUM COVER MUST BE RETAINED AND NO ADVERSE EFFECTS PRODUCED.
- ALTERNATES: CAST-IN-PLACE BOX CULVERTS OR OTHER APPROVED PRECAST DESIGNS.
- LOADING: HS-20 AND ANY FILL HEIGHTS BETWEEN THE MINIMUM AND MAXIMUM SHOWN.
- ONLY ONE DESIGN OF PRECAST BOX CULVERT IS TO BE USED FOR ANY INSTALLATION.

6-27-85		DATE		DEPARTMENT OF TRANSPORTATION	
STATE OF GEORGIA		STATE OF GEORGIA		STANDARD	
PRECAST BOX CULVERT BARRELS		4'x3' THRU 10'x10'		SINGLE & MULTIPLE LINES	
NOT TO SCALE		REDRAWN JULY 2024		MAR. 1985	
DES. R.M.J. (SUBMITTED)		DRW. R.M.J.		TRA. C.M.E. (APPROVED)	
CHK. R.K.C.		STATE ROAD & AIRPORT DESIGN ENGR		NUMBER 2530P	