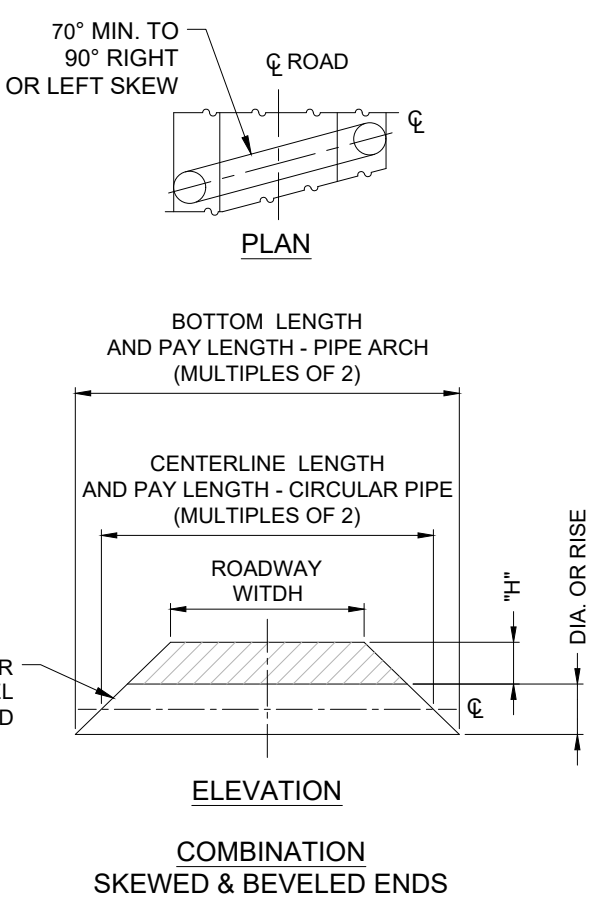
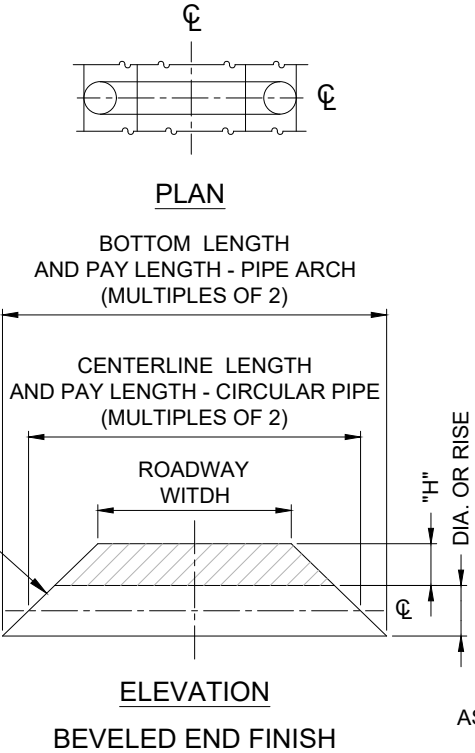
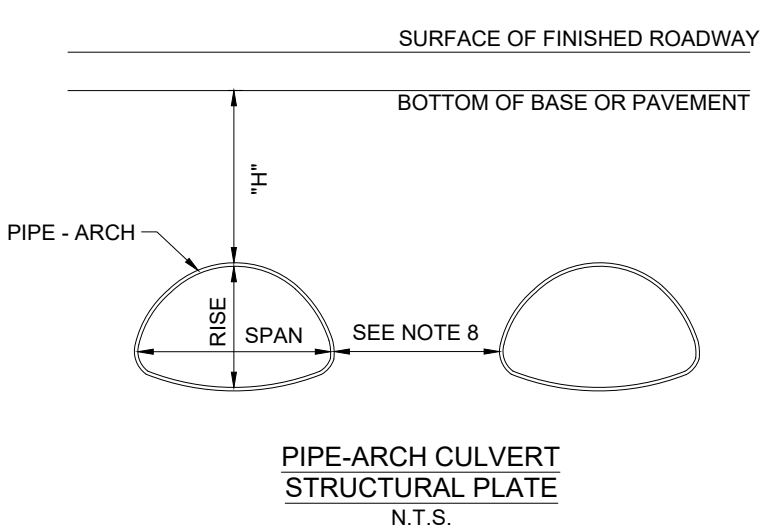


518 - Structural Plate Pipe Arch Culvert.dwg March 17, 2026 - 3:11pm

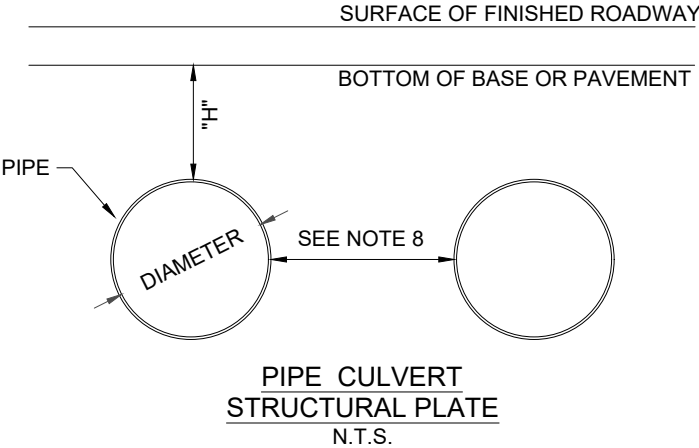


NOTES:

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 = ½ 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	
5'-10"	7-8	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	
6-4	4-9	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	10	10	
7-0	5-1	10	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	10	10	10	
7-6	5-5	10	10	12	12	12	12	12	12	12	12	10	10	10	
7-11	5-7	10	10	10	12	12	12	12	12	12	10	10	10	10	
8-2	5-9	10	10	10	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	8	
8-10	6-1	10	10	10	10	10	10	10	10	10	10	10	8	8	
9-4	6-3	8	10	10	10	10	10	10	10	10	10	8	8	8	
9-6	6-5	8	10	10	10	10	10	10	10	10	10	8	8	8	
9-9	6-7	8	8	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	7	
10-8	6-11	8	8	8	10	10	10	10	10	10	8	8	8	7	
10-11	7-1	8	8	8	10	10	10	8	8	8	7	7	5		
11-5	7-3	7	8	8	8	10	10	8	8	8	7	7	5		
11-7	7-5	7	8	8	8	10	10	8	8	8	7	7	5		
11-10	7-7	7	8	8	8	8	8	8	8	7	5	5	3		
12-4	7-9	7	7	8	8	8	8	8	7	7	5	5	3		
12-6	7-11	7	7	8	8	8	8	8	7	7	5	5	3		
12-8	8-1	7	7	8	8	8	8	8	7	7	5	5	3		
12-10	8-4	5	7	8	8	8	8	8	7	7	5	5	3	1	
13-5	8-5	5	5	7	8	8	8	7	7	5	5	5	3	1	
13-11	8-7	5	5	7	7	8	7	7	5	5	3	3	1	1	
14-1	8-9	5	5	7	7	8	7	7	5	5	3	3	1	1	
14-3	8-11	3	5	5	7	7	7	5	5	5	3	3	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	NOTE 6	NOTE 6	NOTE 6	NOTE 6	85'	
144	10	10	10	10	8	8	7	5	3	1	1	NOTE 6	NOTE 6	NOTE 6	NOTE 6	NOTE 6	80'	
150	10	10	8	8	8	8	7	5	3	1	NOTE 6	NOTE 6	NOTE 6	NOTE 6	NOTE 6	NOTE 6	80'	
156	10	10	8	8	8	8	5	3	1	1	NOTE 6	NOTE 6	NOTE 6	NOTE 6	NOTE 6	NOTE 6	75'	
162	10	10	8	8	8	7	5	3	1	NOTE 6	NOTE 6	NOTE 6	NOTE 6	NOTE 6	NOTE 6	NOTE 6	70'	
168	10	10	8	8	8	7	5	3	1	NOTE 6	NOTE 6	NOTE 6	NOTE 6	NOTE 6	NOTE 6	NOTE 6	70'	
174	8	10	8	8	8	7	5	3	1	NOTE 6	NOTE 6	NOTE 6	NOTE 6	NOTE 6	NOTE 6	NOTE 6	65'	
180	8	10	8	8	8	5	3	1	NOTE 6	NOTE 6	NOTE 6	NOTE 6	NOTE 6	NOTE 6	NOTE 6	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: 02-18-2026



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

DRAWING NO.

518