STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BR000-0001-00(366)	226	301

TABLE NO. 1 ROUND PIPE - CONCRETE - CORRUGATED STEEL - CORRUGATED ALUMINUM

MINIMUM CLASS OF CONCRETE OR MINIMUM THICKNESS OF STEEL AND ALUMINUM

PIPE DIAMETER (INCHES)	TYPE	MINIMUM COVER (INCHES)	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	80 - 90
12	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.075
15	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.075	.075	.075	.105
18	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064
	ALUM 1	12	.060	.060	.060	.060	.075	.075	.075	.075	.105	.105	.105	.105
24	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.064	.079	.079
	ALUM 1	12	.060	.060	.060	.075	.075	.075	.105	.105	.105	.105		
30	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.064	.079	.079	.079	.109	.109
	ALUM 1	12	.075	.075	.075	.075	.075	.105	.105	.105	.135	.135		
36	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.079	.079	.109	.109	.109	.138
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.064	.079	.079	.079	.109	.109
	ALUM 1	12	.075	.075	.105	.105	.105	.105	.135	.135	.135	.135		
	ALUM 2	12	.060	.060	.060	.060	.075	.105	.105	.105	.135	.135		
42	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.079	.109	.109	.109	.138	.138
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.079	.109	.109	.109	.109	.138
	ALUM 1	12	.105	.105	.135	.135	.164	.105	.135	.135				
	ALUM 2	12	.060	.060	.060	.060	.075	.105	.105	.105				
48	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.079	.109	.109	.138	.138	.168
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.079	.109	.109	.109	.138	.138
	ALUM 1	12	.105	.105	.135	.135	.164	.164						
	ALUM 2	12	.060	.060	.060	.060	.075	.105	.105	.135	.164	.164		
54	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.079	.109	.138	.138	.168	.168
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.079	.109	.109	.109	.138	.138
	ALUM 1	15	.105	.105	.135	.135	.164	.164						
	ALUM 2	15	.060	.060	.060	.060	.075	.105	.105	.135	.164	.164		
60	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V
	STEEL 1	12	.064	.064	.064	.064	.064	.064	.079	.109	.138	.168	.168	.168
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.079	.109	.138	.138		
	ALUM 1	15	.135	.135	.164	.164								
	ALUM 2	15	.060	.060	.060	.075	.105	.105	.135	.164				
66	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V
	STEEL 1	12	.138	.138	.138	.138	.138	.138	.138	.168	.168	.168		
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.079	.109	.138			
	ALUM 1	18	.164	.164	.164	.164								
	ALUM 2	18	.075	.075	.105	.105	.135	.135	.164					
72	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V
	STEEL 1	12	.138	.138	.138	.138	.138	.138	.168	.168				
	STEEL 2	12	.064	.064	.064	.064	.064	.064	.079					
	ALUM 1	18	.164	.164	.164	.164	.164	.164						
	ALUM 2	18	.075	.075	.105	.105	.135	.135						
78	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V
	STEEL 1	15	.168	.168	.168	.168	.168	.168	.168	.168				
	STEEL 2	15	.064	.064	.064	.064	.064	.064	.079					
	ALUM 2	21	.075	.075	.105	.105	.135	.135						
84	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V
	STEEL 1	15	.168	.168	.168	.168	.168	.168	.168					
	STEEL 2	15	.064	.064	.064	.064	.079	.079						
	ALUM 2	21	.105	.105	.105	.135	.135							
90	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V
	STEEL 2	18	.064	.064	.064	.064	.079	.109						
	ALUM 2	24	.105	.105	.135	.135	.164							
96	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V
	STEEL 2	18	.079	.079	.079	.079	.079	.109						
	ALUM 2	24	.105	.105	.135	.135	.164							
102	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V
	STEEL 2	24	.079	.079	.079	.109	.109							
	ALUM 2	24	.135	.164	.164									
108	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V
	STEEL 2	24	.109	.109	.109	.109	.109							
	ALUM 2	24	.135	.164										
114	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V
	STEEL 2	24	.109	.109	.109	.109	.109							
	ALUM 2	24	.164	.164										
120	CONCRETE	12	III	III	IV	V	V	V	V	V	V	V	V	V
	STEEL 2	24	.109	.109	.109	.109	.138							
	ALUM 2	24	.164	.164										

IMPERFECT BACKFILL IS NOT REQUIRED FOR CONDTIONS SHOWN ON THE LEFT SIDE OF THE HEAVY LINE. USE NORMAL BACKFILL.

FOR CONDITIONS TO THE RIGHT OF THE HEAVY LINE, CLASS V CONCRETE PIPE REQUIRES IMPERFECT BACKFILL ACCORDING TO DETAIL "A" OR "B" ON SHEET 1 OF 3.

TABLE NO.3-(INFORMATION ONLY)		
COR. METAL	THICKNESS	EQUIVALENT GAGE
STEEL	.064	16
	0.079	14
	0.109	12
	0.138	10
	0.168	8
ALUMINUM	0.060	16
	0.075	14
	0.105	12
	0.135	10
	0.164	8

STEEL 1 OR ALUM 1 DENOTES CORRUGATION PROFILE 2 2/3" X 1/2"

STEEL 2 OR ALUM 2 DENOTES CORRUGATION PROFILE 3" X 1" (OR 5" X 1" FOR STEEL PIPE ONLY)

ALL STEEL AND ALUMINUM PIPE SHALL BE LOCK-SEAM OR WELDED-SEAM (HELICAL) CONSTRUCTION.

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.

TRENCH CONSTRUCTION IS REQUIRED FOR CONDITIONS ON BOTH SIDES OF HEAVY LINE. SEE SHEET 1 OF 3.

FOR CONDITIONS TO RIGHT OF HEAVY LINE, CONCRETE PIPE REQUIRES IMPERFECT BACKFILL ACCORDING TO SPECIFICATIONS AND THIS STANDARD.

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)

GEN. REV. NOTES	9-26-01		
ADDED SEAM CONST. NOTE	3-9-99		
REVISION	DATE		
GJP			
BY			

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CONCRETE & METAL PIPE CULVERTS
SHEET 2 OF 3
(FILL HEIGHTS FOR CONCRETE & CORRUGATED METAL PIPE)

NO SCALE — OCTOBER 21, 1998

DES. ____ DRW. ____ TRA. ____ CHK. ____

(SUBMITTED) STATE ROAD & AIRPORT DESIGN ENGR.

(APPROVED) CHIEF ENGINEER

NUMBER 1030D

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