TABLE NO. 1R ROUND PIPE - SPIRAL RIB STEEL - SPIRAL RIB ALUMINUM
MINIMUM THICKNESS OF STEEL AND ALUMINUM
HEIGHTS OF FILL ABOVE TOP OF PIPE

PIPE DIAMETER (INCHES)	PIPE TYPE	MINIMUM COVER (INCHES)	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	STEEL R	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.079	.079	
	ALUM R	12	.060	.060	.060	.060	.060	.060	.075	.075	.075			
15	STEEL R	12	.064	.064	.064	.064	.064	.064	.064	.079	.079			
	ALUM R	12	.060	.060	.060	.060	.060	.075	.105	.105				
18	STEEL R	12	.064	.064	.064	.064	.064	.064	.064	.064	.064	.079	.079	
	ALUM R	12	.060	.060	.060	.060	.060	.075	.105	.105				
24	STEEL R	12	.064	.064	.064	.064	.064	.064	.064	.079	.079	.109	.109	
	ALUM R	12	.060	.060	.060	.060	.075	.105	.105	.135				
30	STEEL R	12	.064	.064	.064	.064	.064	.064	.079	.079	.109	.109	.109	
	ALUM R	15	.060	.060	.060	.060	.075	.105	.105	.135				
36	STEEL R	12	.064	.064	.064	.064	.064	.079	.079	.109	.109	.109		
	ALUM R	24	.060	.060	.060	.075	.105	.105	.135					
42	STEEL R	12	.064	.064	.064	.064	.079	.079	.109	.109	.109			
	ALUM R	24	.060	.060	.075	.105	.105	.135						
48	STEEL R	12	.064	.064	.064	.064	.079	.109	.109	.109	.109			
	ALUM R	24	.060	.060	.075	.105	.105	.135						
54	STEEL R	15	.064	.064	.064	.079	.109	.109	.109					
	ALUM R	24	.060	.060	.105	.105	.135	.135						
60	STEEL R	15	.064	.064	.079	.079	.109	.109	.109					
	ALUM R	24	.060	.060	.105	.105	.135	.135						
66	STEEL R	18	.064	.064	.079	.109	.109	.109						
	ALUM R	24	.060	.060	.105	.135	.135							
72	STEEL R	18	.064	.064	.079	.109	.109	.109						
	ALUM R	24	.060	.060	.105	.135	.135							
78	STEEL R	21	.064	.064	.079	.109	.109							
	ALUM R	24	.060	.060	.105	.135								
84	STEEL R	21	.064	.064	.079	.109	.109							
	ALUM R	24	.060	.060	.105	.135								
90	STEEL R	21	.064	.064	.079	.109								
	ALUM R	24	.060	.060	.105	.135								
96	STEEL R	24	.064	.064	.079	.109								
	ALUM R	24	.060	.060	.105	.135								
102	STEEL R	24	.064	.064	.079	.109								
	ALUM R	24	.060	.060	.105	.135								
108	STEEL R	24	.064	.064	.079	.109								
	ALUM R	24	.060	.060	.105	.135								
114	STEEL R	24	.064	.064	.079	.109								
	ALUM R	24	.060	.060	.105	.135								
120	STEEL R	24	.064	.064	.079	.109								
	ALUM R	24	.060	.060	.105	.135								

R DENOTES SPIRAL RIB PROFILE 3/4" X 3/4" X 7-1/2"

TABLE VALUES FOR ALUMINUM SPIRAL RIB PIPE ARE COMPUTED BASED UPON ALCLAD ALLOY 3004-H32 HAVING MINIMUM YIELD STRENGTH, fy=24,000 PSI.
IF ALUMINUM PIPE IS OTHERWISE FURNISHED AS 3004-H32 (fy=20,000PSI, ALLOWABLE FILL HEIGHT SHALL BE ADJUSTED AS FOLLOWS:
A. ALL MINIMUM COVER VALUES SHALL BE INCREASED BY 15 PERCENT. (EXAMPLE: 12 IN. BECOMES 13.8 IN.)
B. ALL HEIGHT OF FILL VALUES SHALL BE DECREASED BY 15 PERCENT. (EXAMPLE: 35-40 FT. BECOMES 29.7-34.0 FT.)

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 ALL INSTALLATIONS.

TABLE NO. 2 (PIPE-ARCH)
TABLE SHOWING MINIMUM THICKNESS IN INCHES OF CORRUGATED STEEL AND CORRUGATED ALUMINUM PIPE-ARCH AND MAXIMUM HEIGHTS OF FILL IN FEET ABOVE THE TOP OF THE PIPE-ARCH.

EQUIVALENT DIAMETER OF PIPE OF EQUAL HEIGHT (INCHES)	EQUIVALENT SPAN OF EQUAL HEIGHT (INCHES)	MINIMUM THICKNESS (INCHES) NON-MIN. SPAN INCH	NON-MIN. RISE INCH	MIN. COVER (INCHES)	MAX. HT. FILL (FEET)	MINIMUM THICKNESS (INCHES) CORR. ALUMINUM	MIN. COVER (INCHES)	MAX. HT. FILL (FEET)
15	17	13						
18	21	15						
21	24	18						
24	28	20						
30	35	24						
36	42	29						
	40	31						
42	49	33						
	46	36						
48	57	38						
	53	41						
54	64	43						
	60	48						
60	71	47						
	66	51						
66	77	52						
72	83	55						
78	87	57						
84	96	64						
90	103	67						

NOTE FOR TABLE NO. 2:
ALTERNATE SPAN-RISE COMBINATIONS FOR PIPE-ARCHES HAVING EQUIVALENT DIAMETERS NOT SHOWN, MAY BE SUBSTITUTED IF LISTED IN AASHTO SPECIFICATIONS.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

STANDARD
CONCRETE & METAL PIPE CULVERTS
SHEET 3 OF 3
(FILL HEIGHTS FOR SPIRAL RIB METAL PIPE & FOR PIPE ARCH)

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REVISION DATES

GEORGIA STANDARDS
SR 18 BRIDGE REPLACEMENT @ LONG CANE CREEK
TROUP COUNTY

CHECKED:		DATE:		DRAWING No.
BACKCHECKED:		DATE:		41-0003
CORRECTED:		DATE:		
VERIFIED:		DATE:		

10/23/2015 GPLN