

STEEL ARCH PIPE 68 mm x 13 mm Corrugations								
Span mm	Rise mm	R _c ^② mm	Minimum cover above pipe mm ^①	(H) Maximum Allowable Cover in Meters				
				Steel Thickness				
				1.6 mm	2.0 mm	2.8 mm	3.5 mm	4.3 mm
425	325	89	450	1.8	1.8	-	-	-
525	375	105	450	1.8	1.8	-	-	-
600	450	124	450	1.5	1.5	-	-	-
700	500	140	450	1.5	1.5	-	-	-
875	600	175	450	1.5	1.5	-	-	-
1050	725	210	450	1.2	1.2	-	-	-
1225	825	244	450	-	-	1.2	1.2	1.2
1425	950	279	450	-	-	1.2	1.2	1.2
1600	1075	314	450	-	-	1.2	1.2	1.2
1775	1175	349	450	-	-	-	1.2	1.2
1925	1300	384	450	-	-	-	-	1.2
2075	1425	419	450	-	-	-	-	1.2

STEEL ARCH PIPE 125 mm x 25 mm and 76 mm x 25 mm Corrugations								
Span mm	Rise mm	R _c ^② mm	Minimum cover above pipe mm ^①	(H) Max. Allowable Cover in Meters				
				Steel Thickness				
				1.6 mm	2.0 mm	2.8 mm	3.5 mm	
1500	1150	476	450	1.8	1.8	-	-	
1650	1275	527	450	1.8	1.8	-	-	
1825	1375	581	450	2.4	2.4	-	-	
2025	1475	630	450	-	2.1	2.1	-	
2175	1575	675	450	-	2.1	2.1	-	
2375	1675	719	450	-	1.8	1.8	-	
2575	1775	764	600	-	-	1.8	-	
2800	1875	805	600	-	-	1.5	-	
2925	1975	849	600	-	-	1.5	-	
3200	2075	894	600	-	-	-	1.5	

STRUCTURAL STEEL ARCH PIPE 152 mm x 51 mm Corrugations							
Span mm	Rise mm	R _c ^② mm	Minimum cover above pipe mm ^①	(H) Max. allowable cover in meters			
				Steel Thickness			
				2.8 mm	3.5 mm	4.3 mm	5.5 mm
1825	1375	457	450	2.4	-	-	-
2100	1525	457	450	2.1	-	-	-
2375	1675	457	450	1.8	-	-	-
2650	1825	457	600	1.8	-	-	-
2925	1975	457	600	1.5	-	-	-
3275	2125	457	600	1.5	-	-	-
3550	2275	457	600	1.2	-	-	-
3850	2500	457	600	1.2	-	-	-
3975	2800	787	600	1.8	-	-	-
4250	2950	787	600	1.8	-	-	-
4600	3100	787	600	-	1.8	-	-
4875	3250	787	900	-	1.5	-	-
5150	3400	787	900	-	1.5	-	-
5425	3550	787	900	-	-	1.5	-
5775	3700	787	900	-	-	1.2	-
5975	3850	787	900	-	-	1.2	-
6175	3950	787	900	-	-	-	1.2


Unless specified otherwise, the Contractor may choose the type of corrugated pipe and installation to furnish as long as the selection conforms to the limits indicated for the type specified.

Depth of cover values were determined in accordance with "AASHTO Standard Specifications for Highway Bridges," Section 12, with the following assumptions:

- Iowa DOT Class "A" bedding conditions
- Density of soil, W = 1920 kg per cubic meter
- Soil stiffness factor, k = 0.55

- ① Minimum cover for roadway culverts is 600 millimeters. Minimum cover for entrance culverts is 300 millimeters.
- ② Radius of the lower corners of the arch pipe.

All dimensions given in millimeters unless noted.

M METRIC VERSION	 Iowa Department of Transportation	REVISION 2 10-16-07
		RF-33
	STANDARD ROAD PLAN	SHEET 1 of 1
	<small>REVISIONS: Removed notes. Moved structural steel round pipe table to RF-32. Renamed standard.</small> <i>Deanna Mufelt</i> <small>APPROVED BY DESIGN METHODS ENGINEER</small>	
DEPTH OF COVER TABLES FOR CORRUGATED ARCH PIPE		