STATE	PROJECT	SHEET NUMBER

POLYETHYLENE (PE) PLASTIC ROUND PIPE CULVERT

FILL HEIGHT TABLE AND MINIMUM CELL CLASSIFICATION NUMBER PER ASTM D 3350

SMOOTH WALL (SOLID WALL)

PIPE SIZE DIAMETER	MINIMUM COVER	CELL CLASSIFICATION NUMBER 335434C						
		MINIMUM WALL THICKNESS						
		15.4	21.7	23.4	29.3	35.1	32.8	37.5
		MAXIMUM FILL HEIGHT (METERS)						
300	300	17.5						
450	300		16					
600	300			11.5				
750	300				11.5			
900	300					11.5		
1050	300						8.0	
1200	300							8.0

CORRUGATED

PIPE SIZE DIAMETER	MINIMUM COVER	CELL CLASS. NO. 315412C	CELL CLASS. NO. 324420C
		MAXIMUM FILL HEIGHT (METERS)	
300	300	3.5	3.0
375	300	3.5	3.0
450	300	3.5	3.0
600	300	3.5	3.0
750	300	3.5	3.0
900	300	3.5	3.0

RIBBED

PIPE SIZE DIAMETER	MINIMUM COVER	CELL CLASS. NO. 334433C	CELL CLASS. NO. 335434C
		MAXIMUM FILL HEIGHT (METERS)	
450	300	5.5	7.5
600	300	6.5	8.5
750	300	6.5	8.5
900	300	7.5	9.5
1050	300	6.5	8.0
1200	300	6.5	8.0

NOTE:

1. When directed, camber pipe culverts upward from a chord through the inlet and outlet inverts an ordinate amount equal to 1% of the pipe length. Develop camber on a parabolic curve. If the midpoint elevation on the parabolic curve as designed exceeds the elevation of the inlet invert, reduce the amount of camber or increase the pipe culvert gradient.
2. Measure minimum cover from the top of the pipe culvert to the subgrade for flexible pavements, and to the top of the pavement for rigid pavements. Measure maximum fill height from the top of the pipe to the top of the pavement for both flexible and rigid pavement.
3. Dimensions without units are millimeters.

POLYVINYL CHLORIDE (PVC) PLASTIC ROUND PIPE CULVERT

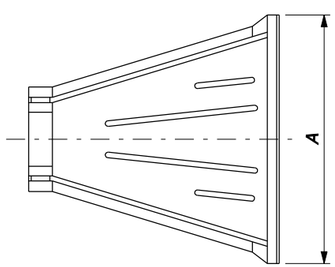
FILL HEIGHT TABLE AND MINIMUM CELL CLASSIFICATION NUMBER PER ASTM D 1784

SMOOTH WALL (SOLID WALL)

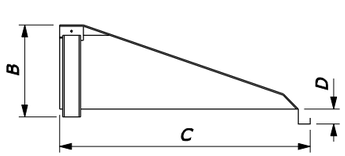
PIPE SIZE DIAMETER	MINIMUM COVER	CELL CLASS. NO. 12454		CELL CLASS. NO. 12364	
		MINIMUM WALL THICKNESS			
		9.1	11.1	9.1	11.1
		MAXIMUM FILL HEIGHT (METERS)			
300	300	20		21	
375	300		19		20

RIBBED

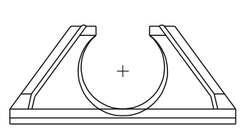
PIPE SIZE DIAMETER	MINIMUM COVER	CELL CLASS. NO. 12454C	CELL CLASS. NO. 12364C
		MAXIMUM FILL HEIGHT (METERS)	
300	300	11.0	8.0
375	300	9.5	6.5
450	300	10.0	7.0
600	300	9.0	6.5
750	300	8.5	6.0
900	300	8.5	6.0
1050	300	8.0	5.5
1200	300	7.5	5.5



TOP



SIDE



FRONT

END SECTION DIMENSIONS

PIPE SIZE DIAMETER	DIMENSIONS A	B	C	D
300	1065	370	840	150
375	1170	620	1155	150
450	1370	735	1395	150
600	1625	940	1650	150
750	2235	915	1615	150
900	2235	1090	1690	150

PLASTIC PIPE END SECTION

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
FEDERAL LANDS HIGHWAY

METRIC STANDARD

PLASTIC PIPE CULVERT

STANDARD APPROVED FOR USE 3/1996
REVISED: 6/2005

STANDARD
M602-5

03-Oct-2005 08:13 AM
F:\StanDraw\st602D5.dgn [Metric]