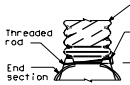
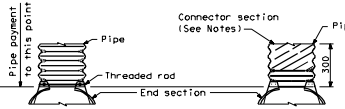


For 300 mm thru 600 mm pipe and 425 mm x 325 mm thru 700 mm x 500 mm pipe arch with annular end corrugations

TYPE 1



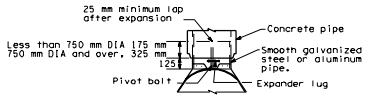
For 750 mm thru 2100 mm pipe and 1225 mm x 825 mm thru 2075 mm x 1425 mm pipe arch with annular end corrugations

TYPE 2

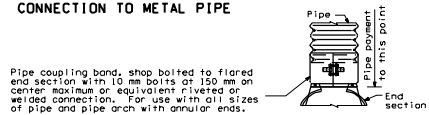
For 1050 mm thru 2100 mm pipe and 1225 mm x 825 mm thru 2075 mm x 1425 mm pipe arch with annular end corrugations and all helically end corrugated pipe and pipe arch

TYPE 3

DESIGN A
CONNECTION TO METAL PIPE

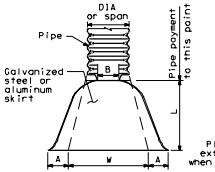


DESIGN B
CONNECTION TO CONCRETE PIPE INLET END ONLY



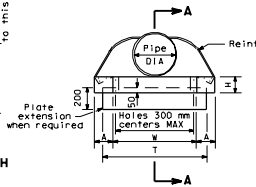
Pipe coupling band, shop bolted to flared end section with 10 mm bolts at 150 mm on center maximum or equivalent riveted or welded connection. For use with all sizes of pipe and pipe arch with annular ends.

DESIGN C
CONNECTION TO METAL PIPE OR CONCRETE PIPE, OUTLET ONLY



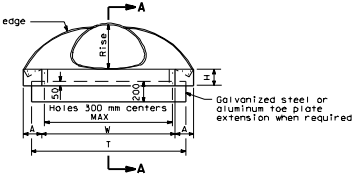
PLAN

PIPE AND PIPE ARCH



ELEVATION

PIPE



ELEVATION

PIPE ARCH

NOTES

1. The diameter of the end section of Design B shall match the inside diameter of the concrete pipe.
2. Skirt sections shall be made in one piece for round pipe with a diameter of 300 mm to 600 mm inclusive and for pipe arches with a rise of 325 mm to 500 mm inclusive. Skirt sections for larger sizes of pipes may be multiple pieces in conformance with the tabulated values shown.
3. Design A end sections for 1050 mm thru 2100 mm diameter and 1225 mm x 825 mm thru 2075 mm x 1425 mm arch with annular corrugations and all helically corrugated pipe arch include 300 mm of pipe length as a connector section. The connector section shall be attached to the end section by welds, rivets or bolts and shall be the same thickness as the end section.
4. Design C may be used in lieu of Design A for all metal pipe sizes except as noted. Coupling bands may be any acceptable type for the pipe specified.
5. Multiple panel skirts shall have lap seams which are to be tightly joined by 10 mm galvanized rivets or bolts.
6. For 1500 mm thru 2100 mm diameter pipe and 1925 mm x 1300 mm and 2075 mm x 1425 mm pipe arch, the reinforced end shall be supplemented with galvanized stiffener angles of the following sizes:

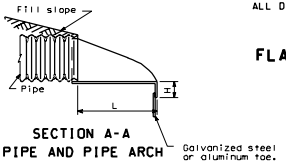
   1500 mm thru 1800 mm diameter pipe
   (50 mm x 50 mm x 6.4 mm galvanized angle)

   1925 mm x 1300 mm and 2075 mm x 1425 mm pipe arch
   1950 mm and 2100 mm diameter pipe
   (60 mm x 60 mm x 6.4 mm galvanized angle)

   The above galvanized angles shall be attached by 10 mm galvanized nuts and bolts.
7. Angle reinforcement will be placed under the center panel seams on the 1925 mm x 1300 mm and 2075 mm x 1425 mm pipe arch sizes.
8. As an alternative to the connector lug and threaded rod used on 300 mm thru 600 mm culvert pipe, the attachment may be made with a 25 mm wide strap, 1.6 mm thick galvanized steel fastened with a 12 mm diameter, 150 mm long galvanized bolt and one squarehead nut.

PIPE DIA (mm)	PIPE THICKNESS (mm) Steel	Alum.	DIMENSION (Meters) A (.03±)	B (max)	H (.03±)	L (.04±)	W (.05±)	T (.05±)	Skirt	END SECTION SLOPE
300	1.6	1.5	0.15	0.15	0.15	0.53	0.60	0.85	1 Pc.	1:2½
375	1.6	1.5	0.18	0.20	0.15	0.65	0.75	1.00	1 Pc.	1:2½
450	1.6	1.5	0.20	0.25	0.15	0.78	0.90	1.15	1 Pc.	1:2½
525	1.6	1.5	0.23	0.30	0.15	0.90	1.05	1.30	1 Pc.	1:2½
600	1.6	1.9	0.25	0.33	0.15	1.03	1.20	1.45	1 Pc.	1:2½
750	2.0	1.9	0.30	0.40	0.20	1.28	1.50	1.75	2 Pc.	1:2½
900	2.0	2.7	0.35	0.48	0.23	1.50	1.80	2.35	2 Pc.	1:2½
1050	2.8	2.7	0.40	0.55	0.28	1.73	2.10	2.65	2 Pc.	1:2½
1200	2.8	2.7	0.45	0.68	0.30	1.95	2.25	2.80	2 Pc.	1:2½
1350	2.8	——	0.45	0.75	0.30	2.10	2.55	3.05	2 Pc.	1:2½
1500	2.8/3.5	——	0.45	0.83	0.30	2.18	2.85	3.35	3 Pc.	1:1¾
1650	2.8/3.5	——	0.45	0.90	0.30	2.18	3.00	3.55	3 Pc.	1:1½
1800	2.8/3.5	——	0.45	0.98	0.30	2.18	3.15	3.65	3 Pc.	1:1¼
1950	2.8/3.5	——	0.45	1.05	0.30	2.18	3.30	3.80	3 Pc.	1:1¼
2100	2.8/3.5	——	0.45	1.13	0.30	2.18	3.45	3.95	3 Pc.	1:1 1/16

PIPE ARCH DIMENSIONS (mm) Span	Rise	THICKNESS (mm) Steel	Alum.	DIMENSIONS (Meters) A (.03±)	B (max)	H (.03±)	L (.04±)	W (.05±)	T (.05±)	Skirt	END SECTION SLOPE
425	325	1.6	1.5	0.18	0.23	0.15	0.48	0.75	1.00	1 Pc.	1:2½
525	375	1.6	1.5	0.18	0.25	0.15	0.58	0.90	1.15	1 Pc.	1:2½
600	450	1.6	1.5	0.20	0.30	0.15	0.70	1.05	1.30	1 Pc.	1:2½
700	500	1.6	1.9	0.23	0.35	0.15	0.80	1.20	1.45	1 Pc.	1:2½
875	600	2.0	1.9	0.25	0.40	0.15	0.98	1.50	1.75	1 Pc.	1:2½
1050	725	2.0	2.7	0.30	0.45	0.20	1.15	1.88	2.13	2 Pc.	1:2½
1225	825	2.8	2.7	0.33	0.53	0.23	1.33	2.13	2.58	2 Pc.	1:2½
1425	950	2.8	2.7	0.45	0.65	0.30	1.58	2.25	2.85	3 Pc.	1:2½
1600	1075	2.8	2.7	0.45	0.75	0.30	1.75	2.55	3.25	3 Pc.	1:2½
1775	1175	2.8/3.5	3.5	0.45	0.83	0.30	1.93	2.85	3.65	3 Pc.	1:2½
1925	1300	2.8/3.5	——	0.45	0.90	0.30	1.93	3.15	3.80	3 Pc.	1:1¾
2075	1425	2.8/3.5	——	0.45	0.98	0.30	1.93	3.45	3.95	3 Pc.	1:1½



SECTION A-A
PIPE AND PIPE ARCH

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED

FLARED END SECTIONS