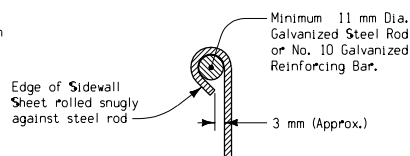
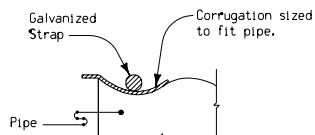


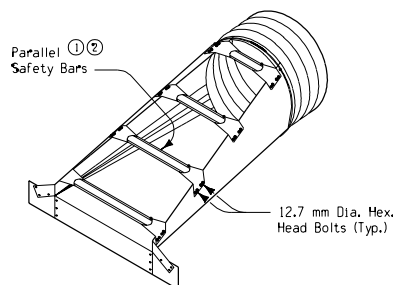
FRONT VIEW



SECTION A-A



SECTION B-B



PERSPECTIVE VIEW  
OF APRON

Pipe Dia. mm	Thick. mm	Dimensions (mm)				
		(A)	(H)	(W)	Overall Width	(L)
375	1.6	205	150	530	940	760
450	1.6	205	150	610	1020	1220
525	1.6	205	150	685	1095	1675
600	1.6	205	150	760	1170	2135
750	2.8	305	230	915	1525	3050
900	2.8	305	230	1065	1675	3960
1050	2.8	405	305	1220	2030	4875
1200	2.8	405	305	1375	2185	5790
1350	2.8	405	305	1525	2335	7050
1500	2.8	405	305	1680	2490	8620

Details on this sheet indicate the typical requirements for Metal Safety Slope Aprons. Refer to appropriate other Standard Road Plans as well as project plans for additional details of individual culverts installations. Alternate design details may be submitted to the Engineer for approval.

Materials and methods of construction shall be in accordance with current Standard and Supplemental Specifications.

Furnishing and installing the metal safety slope aprons shall conform to the requirements of current specifications for "Corrugated Culverts."

Apron may be attached to culvert pipe as follows:

A. If normal culvert is of circumferential corrugation type:

1. Use an approved bolt or clamp to fasten apron directly to culvert.

B. If normal culvert is of helical corrugation type:

1. Use an approved sizing ring securely fastened to inside diameter of apron to connect to the culvert pipe using special dimple band connector.


2. "Dimple" bands are not allowed when a positive joint is specified.

See Materials I.M. 441 for Approved Coupling Devices and specific requirements.

Any damage to galvanizing coat resulting from installation of culvert shall be repaired as directed by the Engineer.

Price bid for "Safety Slope Aprons" of the size specified shall be considered full compensation for fabrication and installation of metal aprons as indicated hereon.

**All dimensions given in millimeters unless noted.**

<b>M</b>		<b>Iowa Department of Transportation</b>	
		<b>Project Development Division</b>	
		<b>STANDARD ROAD PLAN</b>	
		<b>RF-44</b>	
<b>METRIC VERSION</b>	REVISION: Delete M and O Dimensions		REVISION NO. 3
	APPROVED BY: <i>John L. Christy</i> 06-07-00		REVISION DATE
	DESIGN METHOD: ENGINEER		10-03-00
	METAL SAFETY SLOPE APRON		
		6:1 SLOPE	