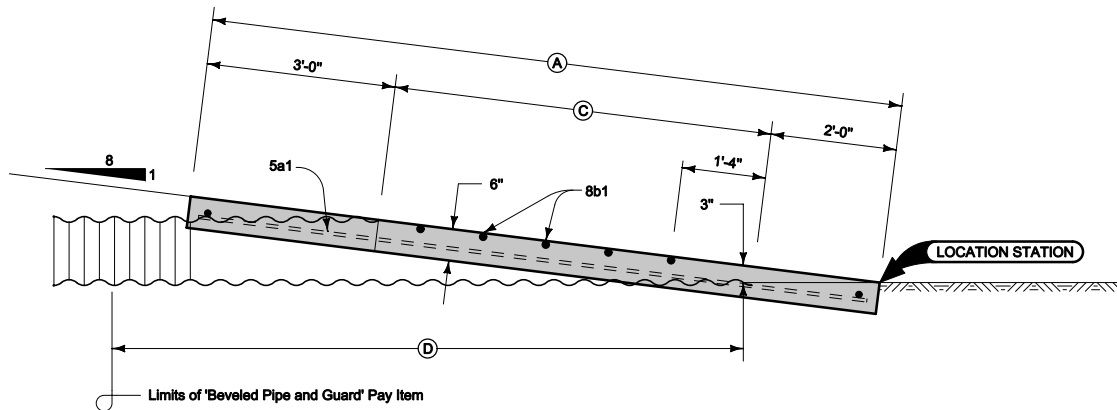
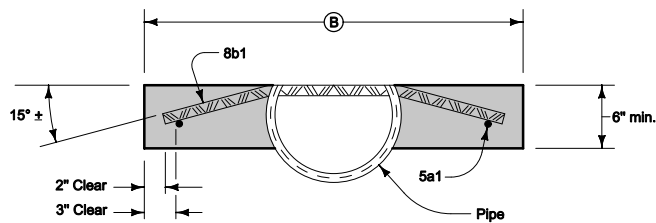


PLAN



SECTION A-A



SECTION B-B

TABLE OF DIMENSIONS				
PIPE SIZE	(A)	(B)	(C)	(D)
12"	11'-0"	3'-0"	6'-0"	10'-0"
15"	13'-2"	3'-3"	8'-2"	12'-0"
18"	15'-4"	3'-6"	10'-4"	14'-0"
21"	17'-6"	3'-9"	12'-6"	16'-0"
24"	19'-8"	4'-0"	14'-8"	18'-0"

REINFORCING BAR LIST									
PIPE SIZE	BAR	LOCATION	SHAPE	COUNT	LENGTH	LIN. FT.	WEIGHT	TOTAL WEIGHT	SPACING
12"	5a1	Base	▬	2	10'-8"	21.4	22.3	65.8	See Detail
	5a2	Base	▬	2	2'-8"	5.4	5.6		See Detail
	8b1	Base	▬	5	2'-10"	14.2	37.9		12"
15"	5a1	Base	▬	2	12'-10"	25.7	26.8	90.7	See Detail
	5a2	Base	▬	2	2'-11"	5.9	6.2		See Detail
	8b1	Base	▬	7	3'-1"	21.6	57.7		12"
18"	5a1	Base	▬	2	15'-0"	30.0	31.3	118.1	See Detail
	5a2	Base	▬	2	3'-2"	6.4	6.7		See Detail
	8b1	Base	▬	9	3'-4"	30.0	80.1		12"
21"	5a1	Base	▬	2	17'-2"	34.4	35.9	148.6	See Detail
	5a2	Base	▬	2	3'-5"	6.9	7.2		See Detail
	8b1	Base	▬	11	3'-7"	39.5	105.5		12"
24"	5a1	Base	▬	2	19'-4"	38.7	40.4	181.3	See Detail
	5a2	Base	▬	2	3'-8"	7.4	7.7		See Detail
	8b1	Base	▬	13	3'-10"	49.9	133.2		12"

Reinforcing steel used in construction of "Beveled Pipe and Guard" is deformed bars meeting the requirements of Article 4151.03. All steel bars to be hot-dip galvanized in accordance with ASTM A123 specifications.

Use Class 'C' Concrete in the construction of Beveled Pipe and Guard.

Cut the pipe to fit the foreslope. Cut slots into the pipe for placement of the No. 8 bars. After the foreslope has been placed, fit the No. 8 bars into the slots cut in the pipe so they will be in proper position when the concrete collar is poured.

Price bid for "Beveled Pipe and Guard," each, is full compensation for furnishing all materials and constructing the Beveled Pipe and Guard.

Special Note:

A silt fence ditch check will be required immediately upstream from the inlet. Refer to EC-201 for construction details.

Possible Contract Item:  
Beveled Pipe and Guard

Possible Tabulations:  
104-3  
112-8

<p>Iowa Department of Transportation</p> <p><b>STANDARD ROAD PLAN</b></p> <p>REVISIONS: Added 21 in. and 24 in. pipe size information. Changed 'D' in table for 18 in. pipe. Corrected weight values in table.</p> <p><i>Deanna Maifeld</i> APPROVED BY DESIGN METHODS ENGINEER</p>	REVISION 2 10-19-10	
	<b>RF-27</b>	
	SHEET 1 of 1	
<b>BEVELED PIPE AND GUARD</b>		