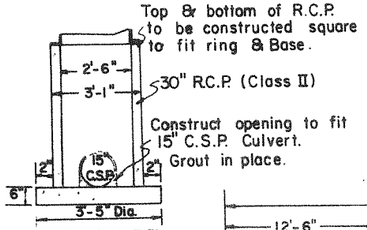
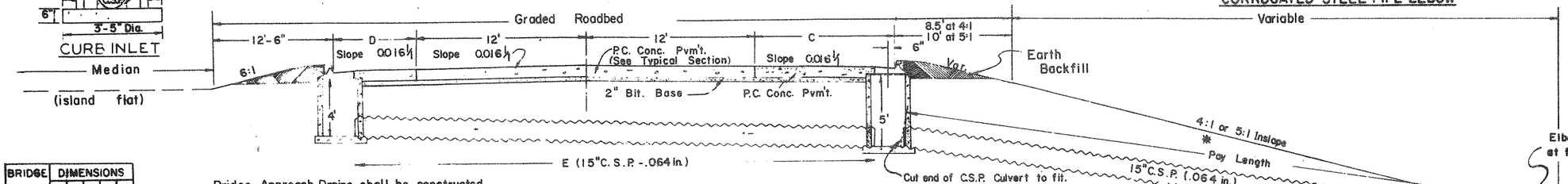
BRIDGE APPROACH SLAB DRAINS

(4-LANE OVER MINOR ROAD)



CURB INLET

GRADED ROADBED		BRIDGE WIDTH
4:1	5:1	
57'	58.5'	36'
58'	59.5'	37'
61'	62.5'	40'

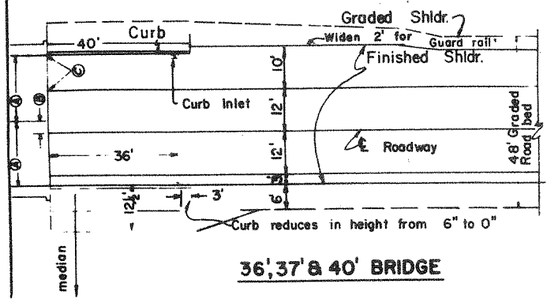


CROSS-SECTION
36' From Bridge End

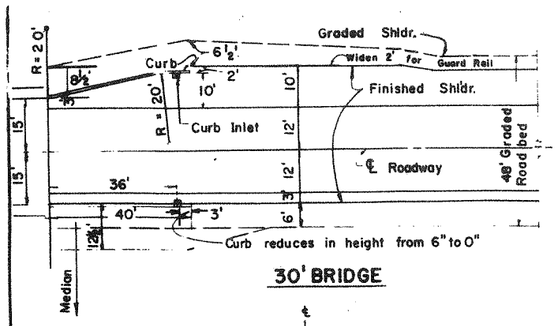
BRIDGE WIDTH	DIMENSIONS				
	A	B	C	D	E
36'	18'	3'	9'	3'	33'
37'	18.5	3.5	10'	3'	34'
40'	20	4	10	3.5	37

Bridge Approach Drains shall be constructed in accordance with section 752 of the Standard Specifications.

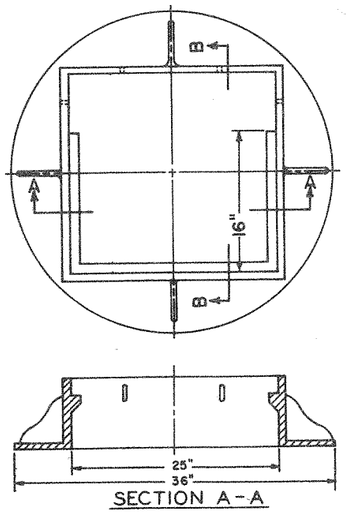
Payment for Bridge Approach Drains shall include inlets and 15" C.S.P. connecting Culvert between inlets.



36', 37' & 40' BRIDGE

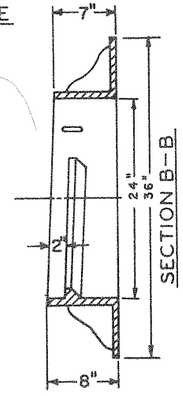


30' BRIDGE



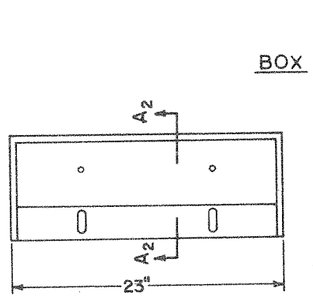
SECTION A-A

FRAME



SECTION B-B

BOX

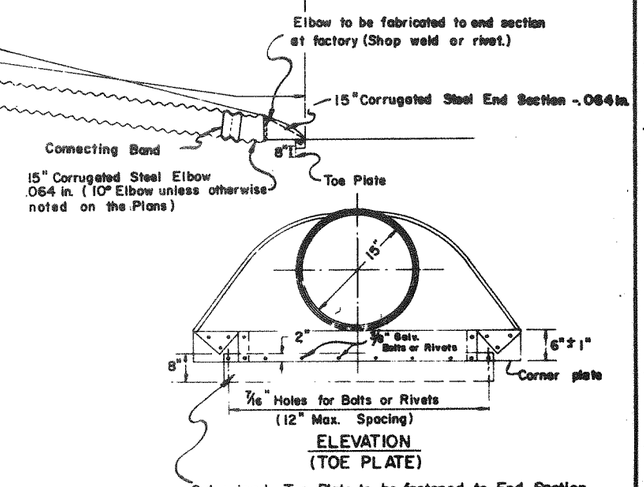


SECTION A_2-A_2

CORRUGATED STEEL PIPE ELBOW

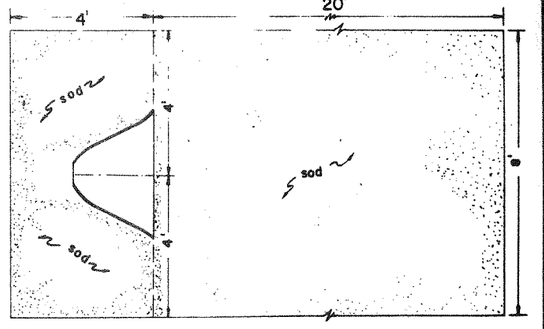
NOTES:
See Std. D-630-4 for corrugated steel Pipe Culverts and End Sections.

* Pay length for 15" C.S.P. Culvert will include the Corrugated Steel Elbow and connecting Band. 15" Corrugated Steel End Section will be a separate pay item.

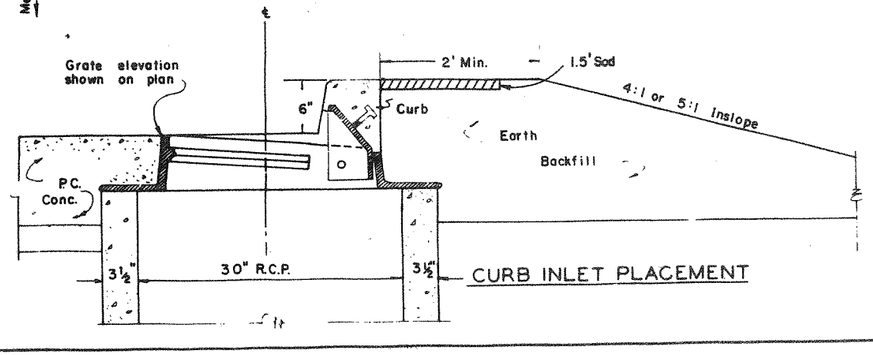


ELEVATION (TOE PLATE)

Galvanized Toe Plate to be fastened to End Section in the field. Thick. of Toe Plate to be same as End Section. Toe Plate, Bolts and Nuts are to be included in price bid for End Sections.

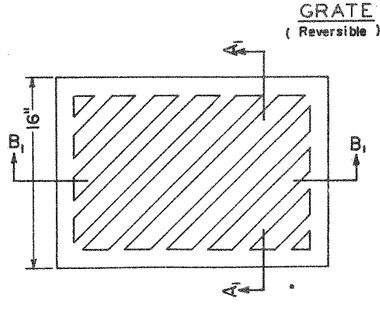


PLAN VIEW-SODDING DETAIL

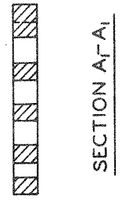


CURB INLET PLACEMENT

GRATE
(Reversible)



SECTION B_1-B_1
(1" diagonal bars with 1½" openings)



SECTION A_1-A_1

1-1-75 REVISIONS	
DATE	CHANGE

NORTH DAKOTA STATE HIGHWAY DEPARTMENT

Submitted: Design Engineer.

Recommended: Asst. Chief Engineer Pre Construction

Approved: Chief Engineer

4.10 H