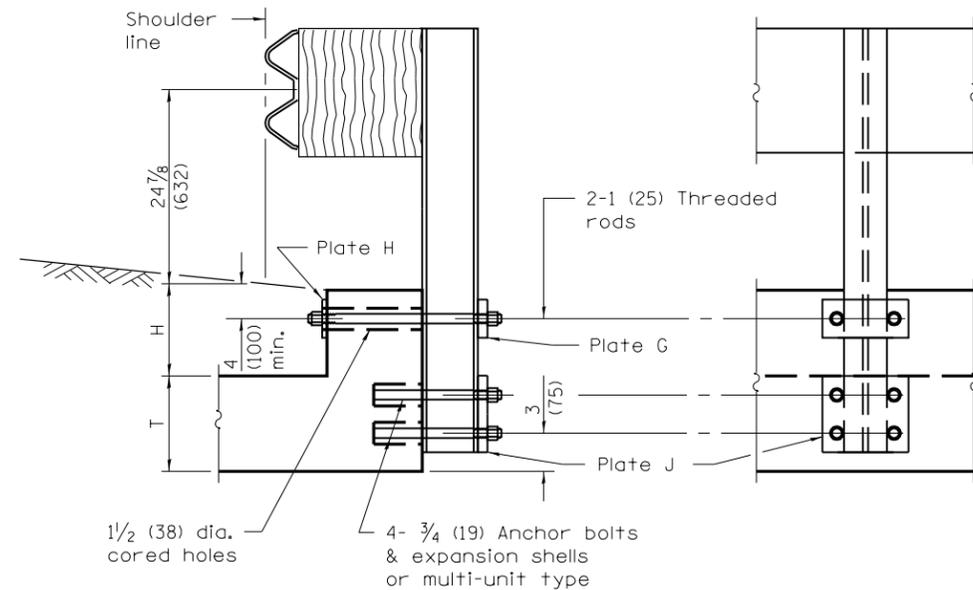


CROSS SECTION

ELEVATION

CONDITION H > 18 (450)

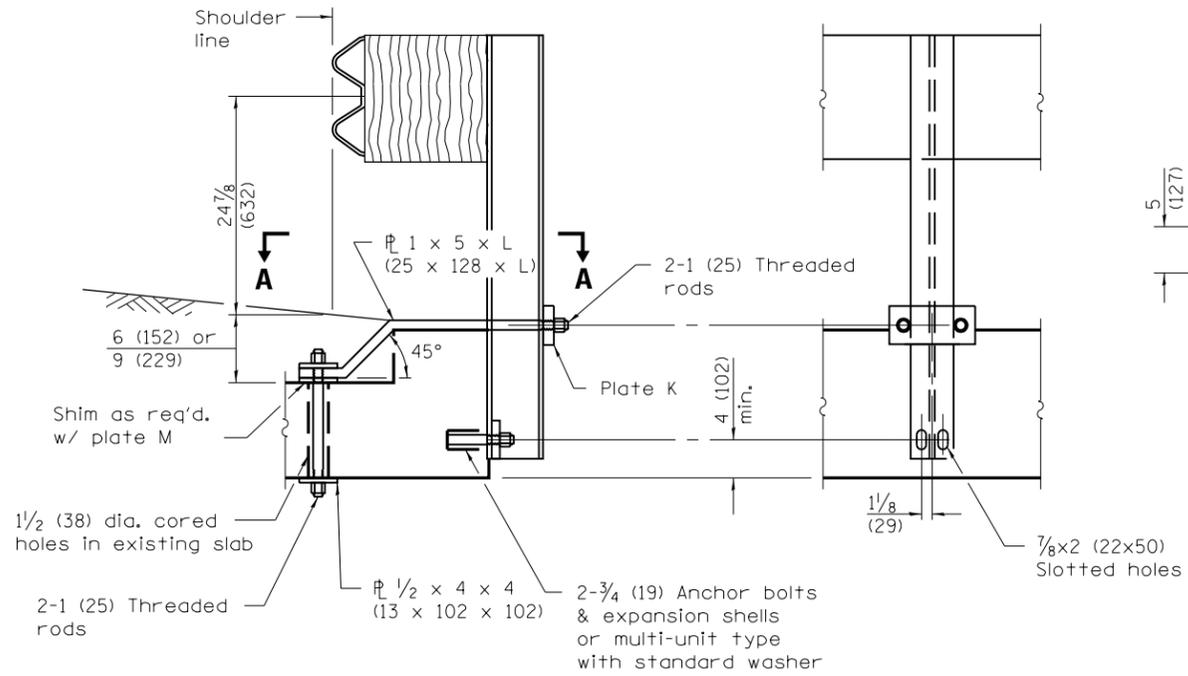


CROSS SECTION

ELEVATION

CONDITION H < 18 (450) & H+T ≥ 20 (510)

**CASE I
MOUNTED ON
RAISED HEADWALL**

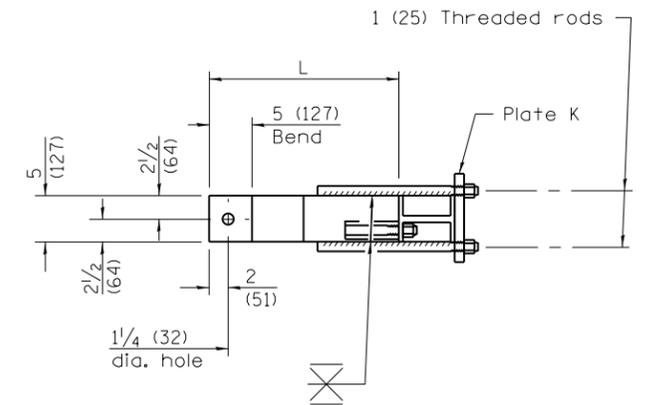


CROSS SECTION

ELEVATION

**CASE II
MOUNTED ON TOP HEADWALL
WITH SQUARE TIP**

PLATE DIMENSIONS								
Type	A	B	C	D	E	F	Hole Dia.	Thick-ness
G	9 (230)	4 (100)	1/2 (40)	6 (150)	3 (75)	2 (50)	1/8 (29)	1 (25)
H	9 (230)	4 (100)	1/2 (40)	6 (150)	3 (75)	2 (50)	1/8 (29)	1/2 (13)
J	9 (230)	5 (127)	1/2 (40)	6 (150)	3 (75)	1/4 (32)	7/8 (22)	1 (25)
K	9 (230)	4 (100)	1/2 (40)	6 (150)	3 (75)	2 (50)	1/8 (29)	1/4 (32)
M	4 (100)	4 (100)	2 (50)	N/A	N/A	2 (50)	1/4 (32)	1/2 (13)



SECTION A-A

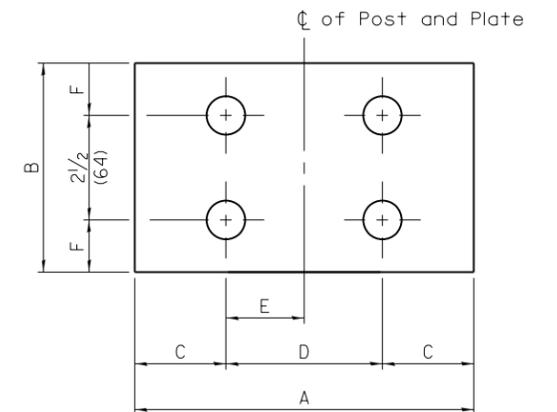
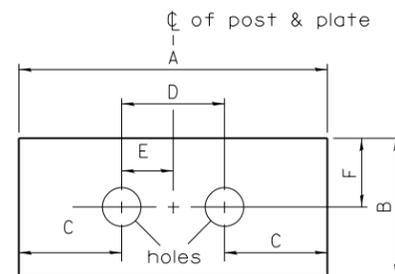


PLATE J



PLATES G, H & K

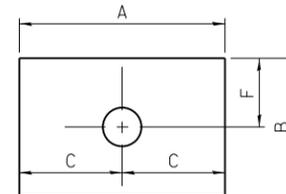


PLATE M

GENERAL NOTES

Except as noted, dimensions and notes specified for cases II, III, and IV are the same as specified for case I.

For details of guardrail elements not shown, see Standard 630001.

All threaded rods shall be installed with heavy hex nuts and standard washers.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-11	Revised weld detail for Case IV.
1-1-09	Switched units to English (metric). Added fillet weld to Case IV.

**GUARDRAIL MOUNTED
ON EXISTING CULVERTS**

(Sheet 1 of 2)

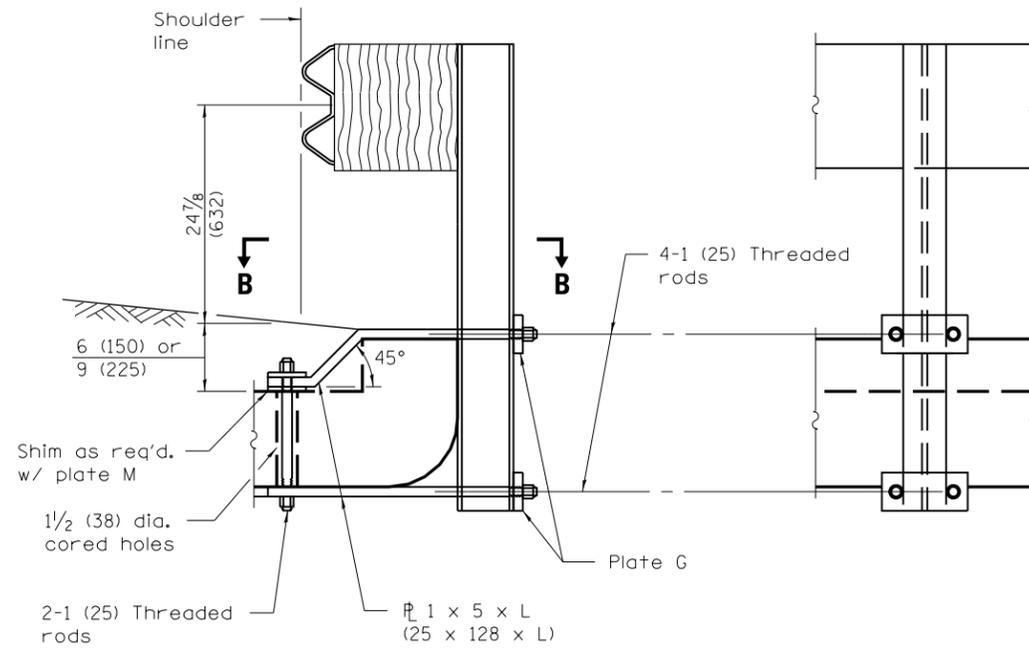
STANDARD 630101-09

Illinois Department of Transportation

PASSED January 1, 2011
Michael Beard
ENGINEER OF POLICY AND PROCEDURES

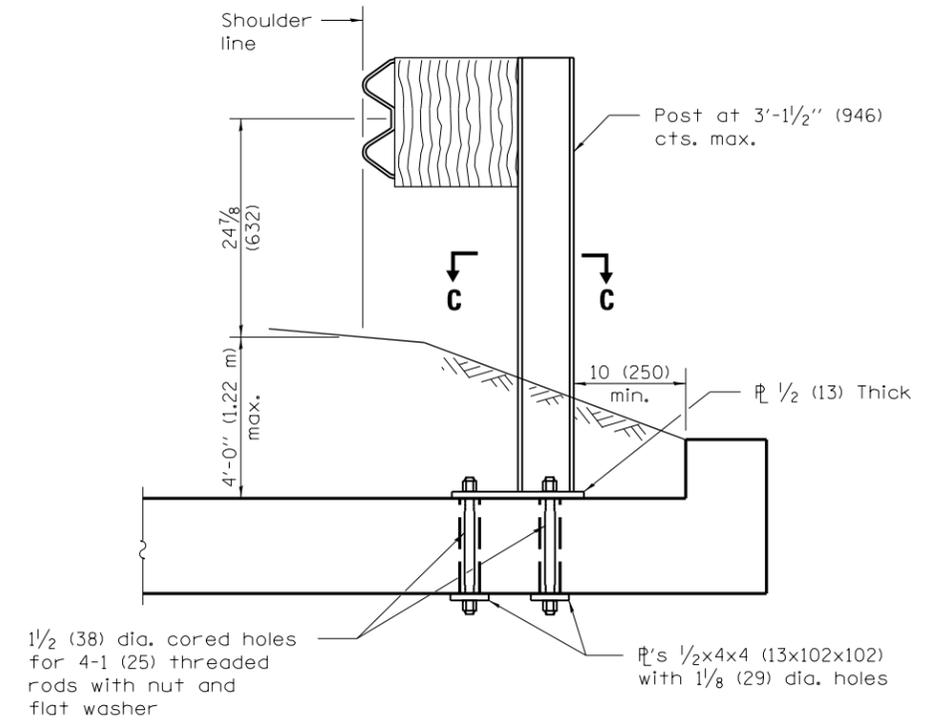
APPROVED January 1, 2011
Santosh
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-11
46-1-1-97

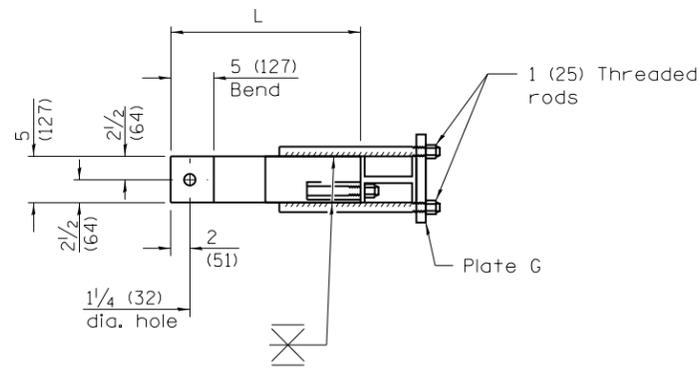


CROSS SECTION

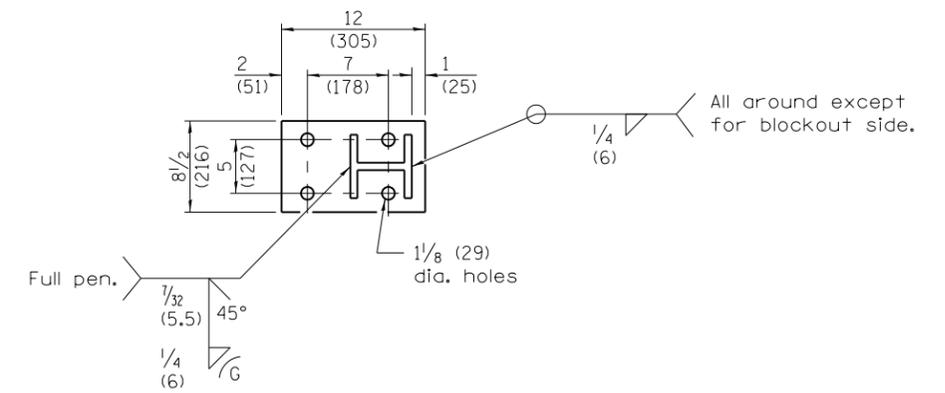
ELEVATION



CROSS SECTION



SECTION B-B



SECTION C-C

**CASE III
MOUNTED ON HEADWALL
WITH CURVED OR DEMOLISHED TIP**

**CASE IV
MOUNTED ON SLAB**

Illinois Department of Transportation
 PASSED January 1, 2011
 Michael Beard
 ENGINEER OF POLICY AND PROCEDURES
 APPROVED January 1, 2011
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

**GUARDRAIL MOUNTED
ON EXISTING CULVERTS**

(Sheet 2 of 2)

STANDARD 630101-09