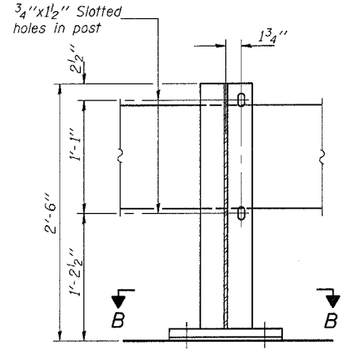
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S. B. I. F. A. U. 5902	①	GRUNDY	50	34
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

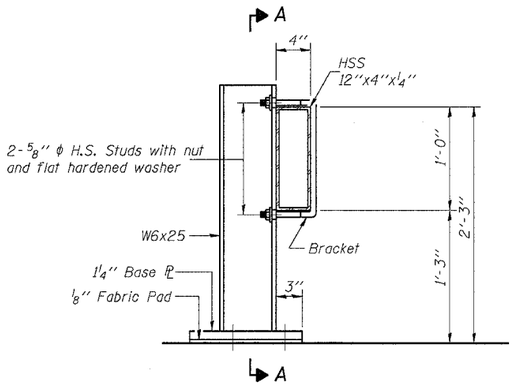
SHEET NO. S4
OF S14 SHEETS

① G-BR-1

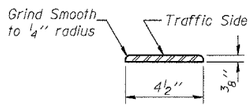
66563



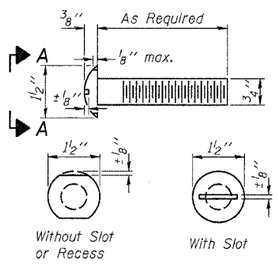
SECTION A-A

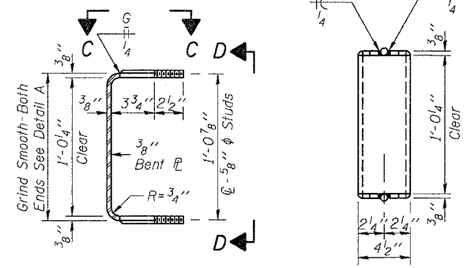


SECTION AT RAIL POST



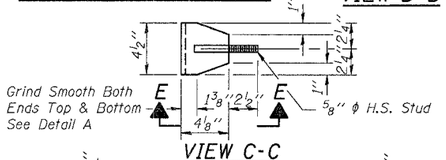
DETAIL A



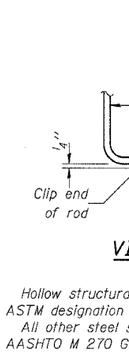


SECTION THRU BRACKET

VIEW D-D



VIEW C-C



VIEW E-E

NOTES

Hollow structural sections shall conform to the requirements of ASTM designation A 500 Grade B Structural Steel Tubing.

All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36 except posts and brackets shall conform to AASHTO M 270, Grade 50.

Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A 307 except for high strength bolts, threaded rods, studs, nuts and washers noted which shall conform to AASHTO M 164.

The bridge rail shall receive one shop coat of a steel prime paint.

The 1" ϕ high strength bolts or threaded rods used to connect the railposts shall be tightened according to Article 505.04(f)(2) of the Standard Specifications.

Temporary Bridge Rail shall be according to Section 514 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for Temporary Bridge Rail.

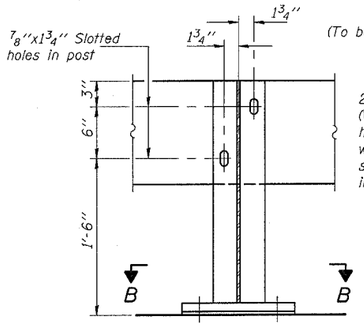
The contact surfaces between post flange, rail and inside face of bracket for Alternate I shall be free of all lubricants.

The nut for 5/8" ϕ high strength studs used in Alternate I to connect bracket to post shall be tightened to a snug fit and given an additional one half turn.

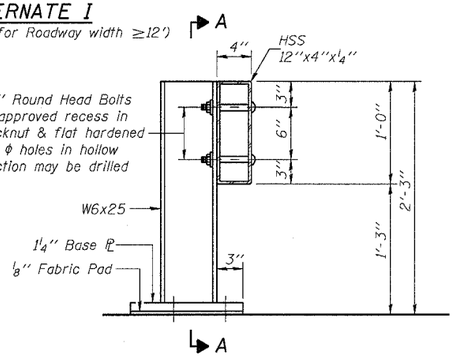
The Contractor shall grout full the cell(s) in the deck beam which will receive the anchor rods. The Contractor shall plug all drain holes and fill the cell completely before starting placement of anchors for temporary bridge rail. Grout shall meet the approval of the Engineer. Cost of grouting cell(s) shall be included in the cost of Temporary Bridge Rail. Utilize anchorage detail indicated **.

ALTERNATE I

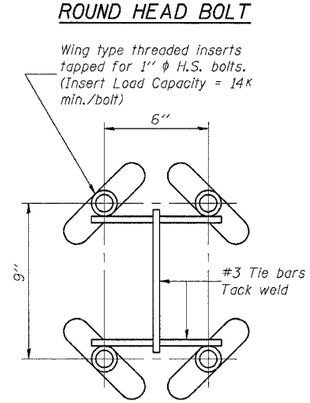
(To be used only for Roadway width ≥12')



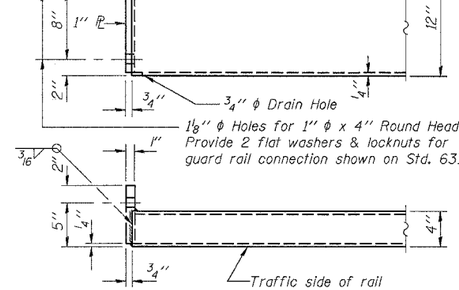
SECTION A-A



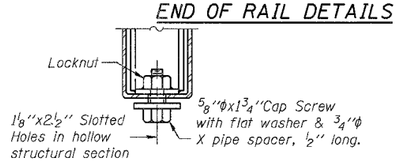
SECTION AT RAIL POST



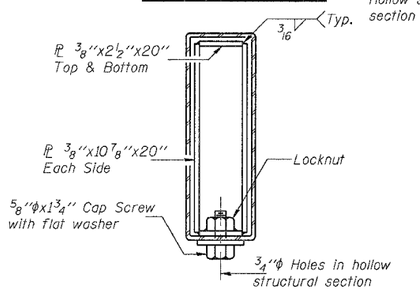
VIEW A-A
ROUND HEAD BOLT



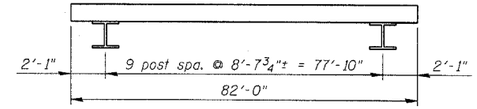
END OF RAIL DETAILS



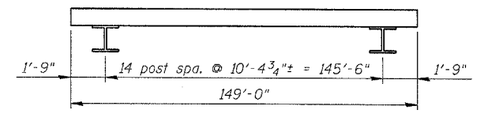
RAIL SPLICE CONNECTION AT EXPANSION JT.



SECTION AT RAIL SPLICE

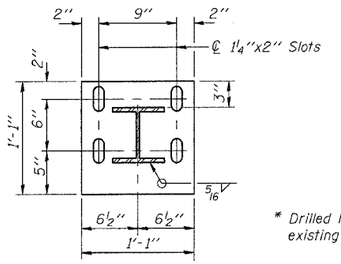


STAGE 1



STAGE 2

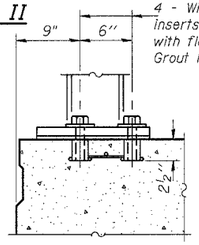
TEMPORARY BRIDGE RAIL POST SPACING



* Drilled holes for existing deck.

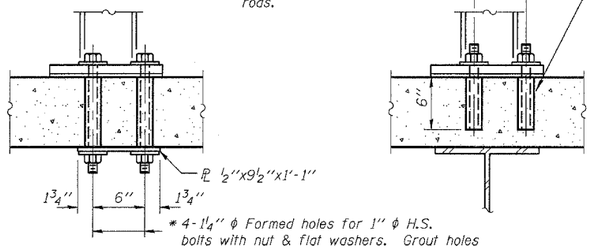
SECTION B-B

ALTERNATE II

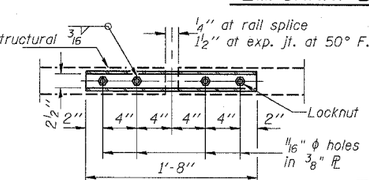


P.P.C. DECK BEAMS

* Drill 4-1 1/4" ϕ holes for 1" ϕ threaded rods with hex nut & flat washer. Epoxy grout rods.



ANCHORAGE DETAILS



PLAN-BOTT. SPLICE PL TYPICAL

BILL OF MATERIAL

Item	Unit	Quantity
Temporary Bridge Rail	Foot	231

DESIGNED	UM
CHECKED	BLU
DRAWN	UM
CHECKED	BLU

R-25 10-31-02

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
130 E. RANDOLPH STREET
CHICAGO, ILLINOIS 60601
JOB NO. 541

TEMPORARY BRIDGE RAIL
U.S. ROUTE 6 (BEDFORD ROAD)
OVER EAST FORK OF NETTLE CREEK
FAU 5952-SEC. G-BR-1
GRUNDY COUNTY
STATION 557+33.31
S.N. 032-0108