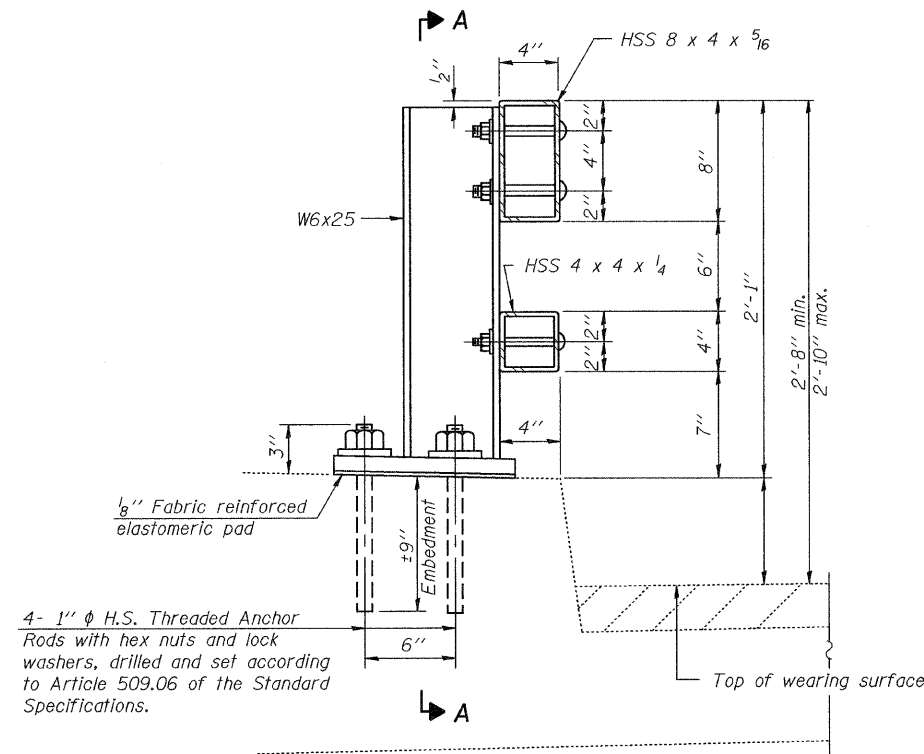
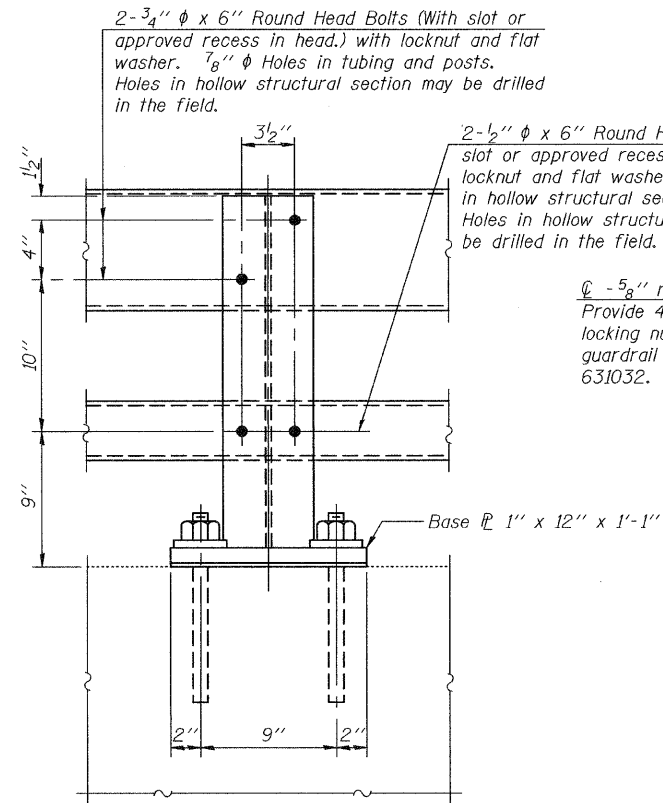


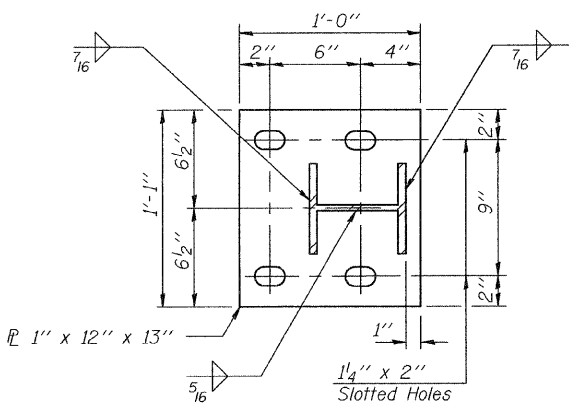
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



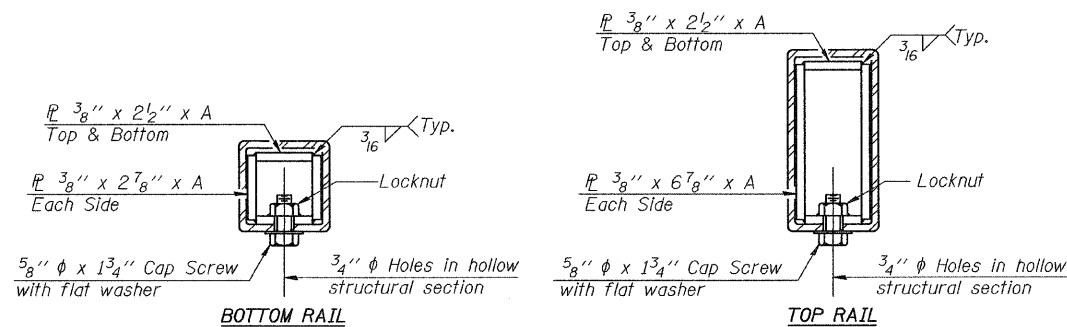
SECTION AT RAIL POST



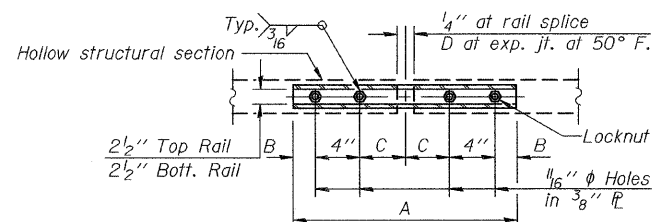
SECTION A-A



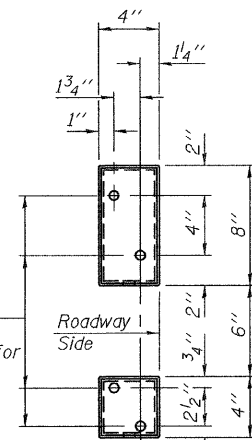
BASE PLATE DETAIL



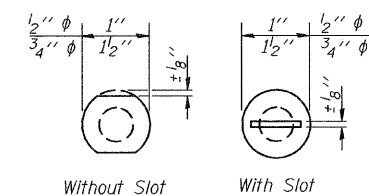
SECTIONS AT RAIL SPLICE



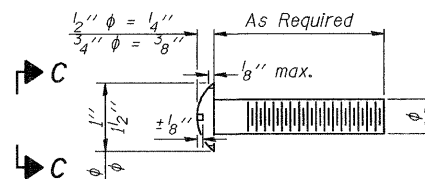
PLAN-BOTT. SPLICE R TYPICAL



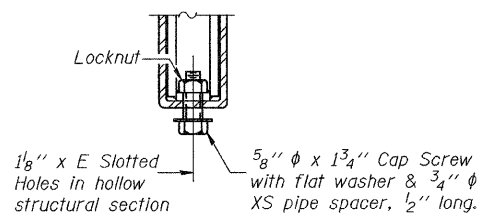
VIEW B-B



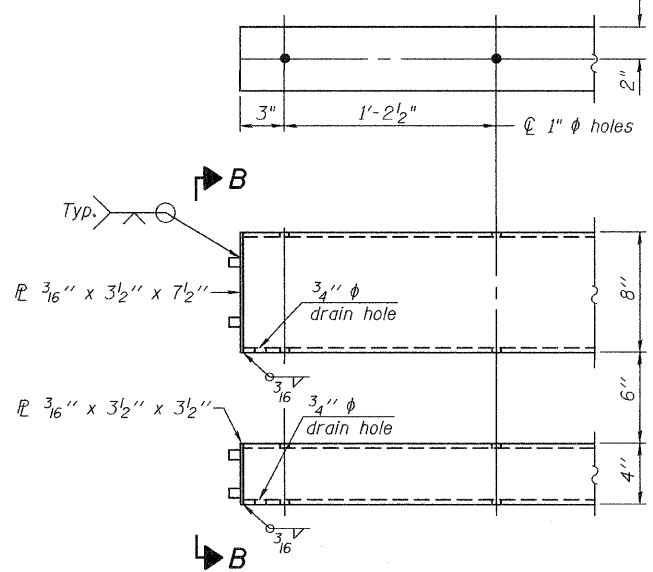
VIEW C-C



DETAIL OF 1/2" & 3/4" ROUND HEAD BOLTS

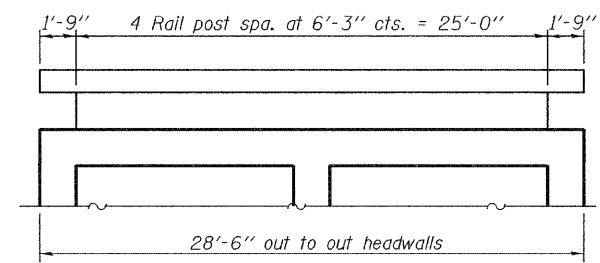


RAIL SPLICE CONNECTION AT EXPANSION JT.



END OF RAIL DETAILS

Notes:
All field drilled holes shall be coated with an approved zinc rich paint before erection.
Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.
Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.
Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



RAIL POST SPACING DETAIL

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	57

STEEL RAILING, TYPE 2399
STRUCTURE NO. 073-2007

SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

DESIGNED	Jay D. Edwards
CHECKED	Michael D. Rolape
DRAWN	h.t. duong
CHECKED	JDE/MDR

EXAMINED	Thomas J. Damgalak ENGINEER OF BRIDGE DESIGN
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

(6'-3" Maximum Post Spacing)

SHEET NO. 4	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	841	108B-1	PERRY	27	22
9 SHEETS			CONTRACT NO. 78059		
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					