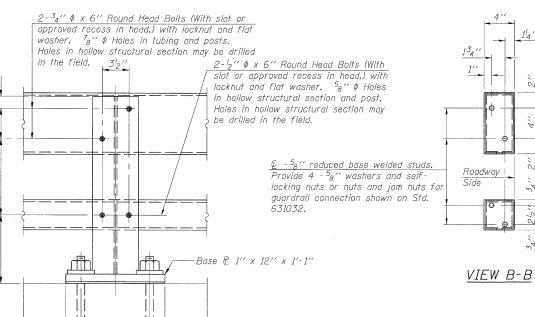


STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

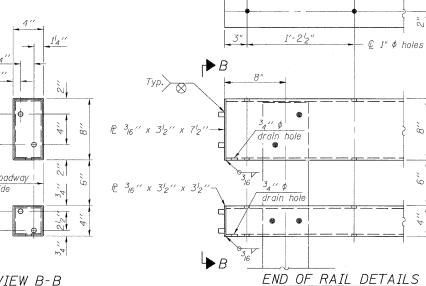


– Locknut

3₄'' ♦ Holes in hollow

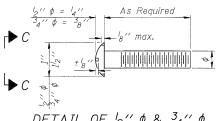
structural section

TOP RAIL



Without Slot or Recess

VIEW C-C



DETAIL OF 12" \$ & 34" \$ ROUND HEAD BOLTS

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 8" and two 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.

SPLICE DIMENSIONS

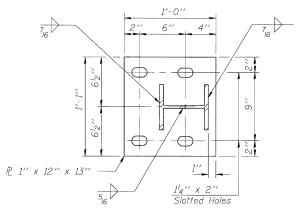
T	D	А	В	С	E	
≤4′′	21/2"	1'-8''	2"	4''	2'2"	
>4''≤6 ¹ 2''	334''	2'-0"	2/2"	512"	3'2"	
>6½''≤9''	5′′	2'-4"	3/2"	612"	9"	
>9′′≤13′′	7''	2'-10''	412"	812''	11''	
Rail Splice	4''	1'-8''	2"	4′′		

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

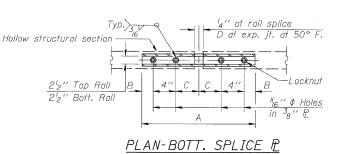
BILL OF MATERIAL

<i>Item</i>	Unit	Quantity	
Steel Railing, Type 2399	Foot	56	

See sheet 1 of 9 for post spacing.



BASE PLATE DETAIL



TYPICAL

-Locknut

³₄′′ ¢ Holes in hollow

SECTIONS AT RAIL SPLICE

structural section

SECTION A-A

 $\frac{P_{\rm c}}{8}$ $\frac{3_8}{2}$ \times $2\frac{l_2}{2}$ \times A Top & Bottom

P 38" x 678" x A

⁵8'' ∮ x 1³4'' Cap Screw with flat washer

 $^{5}8^{\prime\prime}$ ϕ x $1^{3}4^{\prime\prime}$ Cap Screw with flat washer $^{8}8^{3}4^{\prime\prime}$ ϕ 1'8" x E Slotted Holes in hollow structural section XS pipe spacer, 12" long.

RAIL SPLICE CONNECTION AT EXPANSION JT.

STEEL RAILING, TYPE 2399 S.N. 026-2020

	SHEET NO.6	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		*	114B-1(1) & 114B-1(2)	FAYETTE	54	24
		* F.A.P. RTE. 750, F.A.S. RTE. 719		CONTRACT NO. 74110		
		FED. ROAD DIST. NO ILLINOIS FED. A		D PROJECT		

DESIGNED SCD CHECKED DRB DRAWN THW CHECKED

le

IE CONSULTANTS, INC 6420 SOUTH SIXTH STREET SPRINGFIELD, ILLINOIS 62712 TEL. (217) 529-8027 IESPRINGFIELD@IE-CONSULTANTS COM consultants www.ie-consultants.com

(6'-3" Maximum Post Spacing)