



**SECTION THRU  
ROLLED RAIL JOINT**

**SECTION THRU  
WELDED RAIL JOINT**

**ROLLED  
EXTRUDED RAIL**

**WELDED RAIL**

**LOCKING EDGE  
RAIL SPLICE**

\*\*\* Back gouge not required if complete joint penetration is verified by mock-up.

The inside of the locking edge rail groove shall be free of weld residue.  
Rolled rail shown, welded rail similar.

**LOCKING EDGE RAILS**

**Notes:**  
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant.

**Note:**  
Rail shall be assembled in separate lengths per stage and welded continuous in Stage II Construction.

**Note:**  
Anchor studs extending in backwall shall be 4" long.

**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Strip Seal	Foot	60

EJ-SSJ 7-1-10

\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

FILE NAME = 1020108-sht-br1dge.dgn	USER NAME =	DESIGNED - C.C.S.	REVISED -	<b>STATE OF ILLINOIS VERMILION COUNTY HIGHWAY DEPARTMENT</b>	<b>PREFORMED JOINT STRIP SEAL STRUCTURE NO. 092-0085</b>	FAU	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3635 S. EVANSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.M.S.	REVISED -			7043	09-00171-00-BR	VERMILION	66	44	
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 194 000999	PLOT DATE = 2/9/2012	DRAWN - D.A.B.	REVISED -			CONTRACT NO. 91449					
		CHECKED - S.W.M.	REVISED -			[ILLINOIS] FED. AID PROJECT					