F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	E-1-14-I-2	DUPAGE	12	10

FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT

Locking Edge Rail
Top of slab
"A" — at 50 °F
Strip Seal
Center

* $\frac{3}{4}'' \phi \times 8''$ studs at 1'-0" cts.

* $\frac{3}{4}'' \phi \times 8''$ studs at 2'-0" cts.

$\frac{7}{16}''\phi$ holes at 1'-0" cts. for $\frac{3}{8}''\phi$ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed. (typ.)

"A" + $\frac{1}{2}''$

* $\frac{3}{4}'' \phi \times 8''$ studs at 1'-0" cts. (alt. with top horizontal studs.)
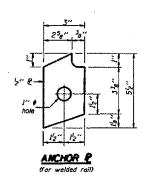
SECTION THRU ROLLED RAIL EXP. JOINT
(742 Studs Required)

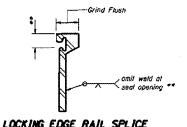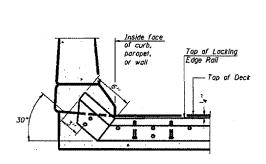* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

Required Strip Seal rated movement	"A"
1"	$\frac{7}{8}''$
2"	$1\frac{3}{4}''$

Locking Edge Rail
Top of slab
"A" — at 50 °F
Strip Seal
typ.

* $\frac{3}{4}'' \phi \times 8''$ studs at 1'-0" cts.

* $\frac{3}{4}'' \phi \times 8''$ studs at 2'-0" cts.

$\frac{7}{16}''\phi$ holes at 1'-0" cts. for $\frac{3}{8}''\phi$ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed. (typ.)

"A" + $\frac{1}{2}''$

Anchor Plate. Place plates at 1'-0" cts. (alt. with top horizontal studs)

SECTION THRU WELDED RAIL EXP. JOINT
(445 Studs Required)
(297 Anchor Plates Required)

ROLLED (EXTRUDED) RAIL

WELDED RAIL

ANCHOR ℓ
(for welded rail)

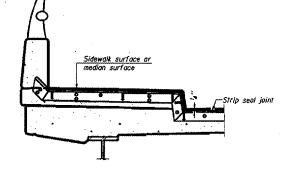**LOCKING EDGE RAILS**

Grind Flush
omit weld at seal opening **

LOCKING EDGE RAIL SPLICE
The inside of the locking edge rail groove shall be free of weld residue.

Inside face of curb, parapet, or wall
Top of Locking Edge Rail
Top of Deck
30°

AT CURB, PARAPET, OR WALL

Sidewalk surface or median surface
Strip seal joint

AT SIDEWALK OR MEDIAN*

* Shorter plates with a single row of studs at 12" centers may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

TYPICAL END TREATMENTS

GENERAL NOTES

The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}''$. The configuration of the strip seal shall match the configuration of the Locking Edge Rails.

The height and thickness of the Locking Edge Rails shown are minimum dimensions. 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 and stage construction joints.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a preformed joint seal. If the contractor elects to use the alternate strip seal 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.

BRIDGE JOINT SYSTEM - EXPANSION (STRIP SEAL)

REVISIONS		
NAME	DATE	

ILLINOIS DEPARTMENT OF TRANSPORTATION

IL 59 OVER I-88 BRIDGE STRIP SEAL DETAILS SN 022-9900

SCALE: NONE
DATE: 2/10/06
DRAWN BY: SMB
CHECKED BY:

MODIFIED EJ-BJS   10-22-04