

DATE : <u>4/23</u>

R.C.LARSON

DESIGN ENGINEER OF RECORD:_

Re Lan

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JOINT INSTALLATION PROCEDURE:

- 2. A MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT DURING
- 3. PLACE STEEL RETAINER RAILS IN JOINT OPENING. PROPERLY DO NOT WELD SUPPORT SYSTEM TO THE METALLIZED SURFACES
- 5. DECK SLAB CONCRETE PLACEMENT OPERATIONS SHALL COMMENCE
- 6. PROTECT THE STEEL RETAINER RAILS FROM BEING FOULED BY
- 7. LOOSEN THE STEEL RETAINER RAIL SUPPORT SYSTEM TO ALLOW

AND SETTING AT JOINT					
SION ``A''		DIMENSION ``B''			
NDICULAR OPENING 60° F	PERPENDICULAR JOINT OPENING AT 90° F	PERPENDICULAR JOINT OPENING AT 45° F	PERPENDICULAR JOINT OPENING AT 60° F	PERPENDICULAR JOINT OPENING AT 90° F	
2″	1 ¹³ / ₁₆ ″	2% ₁₆ ″	21/2″	25⁄16″	
2″	1 ¹³ / ₁₆ "	2 ⁹ /16″	21/2″	2 ⁵ /16″	

UNLESS ALL SIGNATURES COMPLETED

GENERAL NOTES

FOR STRIP SEAL EXPANSION JOINTS, SEE SPECIAL PROVISIONS.

STEEL RETAINER RAILS AND COVER PLATES SHALL CONFORM TO AASHTO M270 GRADE 36 OR GRADE 50 STEEL.ALL STUD ANCHORS SHALL CONFORM TO AASHTO M169, GRADES 1010 THRU 1020 OR APPROVED EQUAL. ALL CONCRETE INSERTS SHALL BE CLOSED END AND SHALL CONFORM TO AASHTO M169, GRADE 12L14. TENSILE CAPACITY SHALL BE 3000 LBS. MIN.

ONLY STEEL RETAINER RAILS OF ONE-PIECE CONSTRUCTION ARE PERMITTED. STEEL RETAINER RAILS CONSISTING OF TWO OR MORE COMPONENTS WELDED TOGETHER TO OBTAIN THEIR FINAL CROSS-SECTIONAL SHAPE ARE NOT PERMITTED.

STUD ANCHORS SHALL BE SHOP WELDED AND SHALL BE ELECTRIC ARC END WELDED WITH COMPLETE FUSION.

SURFACES COMING IN CONTACT WITH STRIP SEAL GLAND SHALL BE GROUND SMOOTH PRIOR TO METALLIZING.

UPON COMPLETION OF SHOP FABRICATION, THE STEEL RETAINER RAILS SHALL BE METALLIZED AS SHOWN IN THE ``METALLIZING DETAIL''. SEE SPECIAL PROVISIONS FOR THERMAL SPRAYED COATINGS (METALLIZATION).

INSTALLED STEEL RETAINER RAILS SHALL FOLLOW THE ROADWAY SLOPE.

FIELD SPLICES OF THE RETAINER RAILS SHALL BE KEPT TO A MINIMUM. CONTRACTOR SHALL FURNISH DETAILED PLANS SHOWING PROPOSED SPLICE LOCATIONS FOR APPROVAL.FINISHED WELDS SHALL BE REPAIRED IN ACCORDANCE WITH THE SPECIAL PROVISION FOR THERMAL SPRAYED COATINGS (METALLIZATION).

NEOPRENE STRIP SEAL GLAND SHALL BE CONTINUOUS THROUGHOUT THE JOINT AND SHALL BE COMPATIBLE WITH THE STEEL RETAINER RAILS. FIELD SPLICING THE GLAND IS NOT PERMITTED.

A TEMPORARY GLAND IS REQUIRED FOR STAGE I.NO SEPARATE PAYMENT WILL BE MADE FOR THE TEMPORARY GLANDS.

NO ALTERNATE JOINT DETAILS SHALL BE PERMITTED IN LIEU OF THOSE SHOWN ON THESE PLANS.

THE COVER PLATES SHALL BE GALVANIZED OR METALLIZED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.FOR THERMAL SPRAYED COATINGS (METALLIZATION), SEE SPECIAL PROVISIONS.

THE CONTRACTOR MAY, AT HIS OPTION, USE ADHESIVELY ANCHORED ANCHOR BOLTS IN PLACE OF CONCRETE INSERTS FOR COVER PLATES. THE YIELD LOAD OF THE $\frac{\gamma_4}{0}$ BOLT IS 10 KIPS.FIELD TESTING OF THE ADHESIVE BONDING SYSTEM IS NOT REQUIRED.

	PROJECT NO. U-5839 <u>HAYWOOD</u> COUNTY STATION: 24+64.13 -L- POC
	SHEET 1 OF 3
	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH
S STANDARD DRAWING REVIEWED & PTED FOR USE AT THE REFERENCED ATION BY THE UNDERSIGNED:	STANDARD
ocuSigned by:	STRIP SEAL EXPANSION JOINT DETAILS
B2398D9220470 _{SEAL} 14114 ^{DOCNEER}	REVISIONS SHEET NO. NO. BY: DATE: NO. BY: DATE: S1-34
5/18/2023	1 3 TOTAL SHEETS 2 4 63
	STD. NO. SSEJ1