

12/11/2023 \\DOT\DFSRoot01\Groups-SDCC\Share\Structures Standards\Standards English 2024\2024 DGN\SSEJ1_24.dgn bbarodawala

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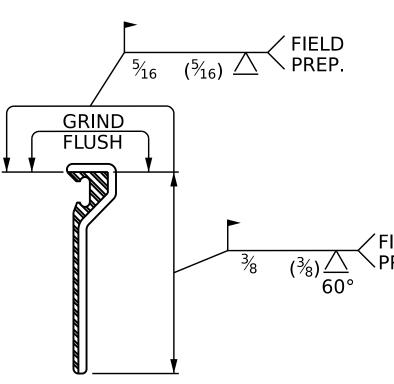
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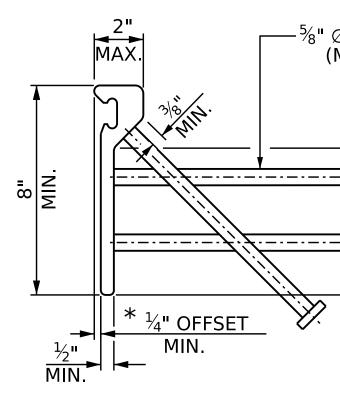
| TTING AT JOINT | | | | | |
|----------------|--|--|--|--|--|
| "A" | | DIMENSION "B" | | | |
| _AR NG | PERPENDICULAR JOINT OPENING AT 90° F | PERPENDICULAR JOINT OPENING AT 45° F | PERPENDICULAR JOINT OPENING AT 60° F | PERPENDICULAR JOINT OPENING AT 90° F | |
| | - | - | | - | |
| | - | - | | - | |
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JOINT INSTALLATION PROCEDURE:

- 1. INSTALL THE STRIP SEAL EXPANSION JOINT AS RECOMMEND BY THE MANUFACTURER.
- 2. A MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT DURING INSTALLATION OF THE JOINT.
- PLACE STEEL RETAINER RAILS IN JOINT OPENING. PROPERLY ALIGN THE RAILS BOTH HORIZONTALLY AND VERTICALLY. DO NOT WELD SUPPORT SYSTEM TO THE METALLIZED SURFA OF THE STEEL RETAINER RAILS.
- 4. CONFLICTING REINFORCING STEEL MAY BE SHIFTED SLIGHTL WHEN NECESSARY.
- DECK SLAB CONCRETE PLACEMENT OPERATIONS SHALL 5. COMMENCE PER THE POURING SEQUENCE AFTER FINAL JOIN ALIGNMENT IS SET.
- 6. PROTECT THE STEEL RETAINER RAILS FROM BEING FOULED CONCRETE SPILLOVER DURING THE DECK POUR.
- 7. LOOSEN THE STEEL RETAINER RAIL SUPPORT SYSTEM TO AL MOVEMENT WHILE CONCRETE CURES.
- 8. RE-LEVEL AND RE-ALIGN STEEL RETAINER RAIL AS REQUIRED ON OPPOSITE SIDE OF JOINT.
- 9. PLACE APPROACH/DECK SLAB CONCRETE.
- 10. ONCE THE CONCRETE HAS HARDENED SUFFICIENTLY ON BOT SIDES OF JOINT, STEEL RETAINER RAILS SHALL BE CLEANED THOROUGHLY AND SEAL CHANNELS SHALL BE INSPECTED TO ASCERTAIN THE ABSENCE OF CONCRETE AND DEBRIS.
- 11. COAT THE STRIP SEAL LUGS WITH LUBRICANT-ADHESIVE ANI INSTALL THE NEOPRENE STRIP SEAL GLAND AS RECOMMEND BY THE STRIP SEAL EXPANSION JOINT MANUFACTURER.



STEEL RETAINER RAIL (FIELD SPLICE DETAIL)



TYPICAL SECTI STEEL RETAINER

* DIMENSION "B" BASED ON STEEL RE TOP OFFSET TO FACE OF RAIL OF $\frac{1}{2}$ IF ACTUAL OFFSET IS GREATER **DIMENSION "B" AS REQUIR**

| | GENERAL NOTES | | | | |
|---------------------|--|--|--|--|--|
| DED | FOR STRIP SEAL EXPANSION JOINTS, SEE SPECIAL PROVISIONS. | | | | |
| Y | 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. | | | | |
| ACES | 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. | | | | |
| NT | SURFACES COMING IN CONTACT WITH STRIP SEAL GLAND SHALL BE GROUND SMOOTH PRIOR TO METALLIZING. | | | | |
| BY _LOW | 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). | | | | |
| D | INSTALLED STEEL RETAINER RAILS SHALL FOLLOW THE ROADWAY SLOPE. | | | | |
|)) TO | 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). | | | | |
| ١D | 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. | | | | |
| DED | 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 $\frac{3}{4}$ " Ø BOLT IS 10 KIPS. FIELD TESTING OF THE ADHESIVE BONDING SYSTEM IS NOT REQUIRED. | | | | |
| FIELD PREP. | SURFACE TO BE METALLIZED | | | | |
| Ø STUD (MIN. 10' | ANCHORS METALLIZING DETAIL | | | | |
| (TYI | P.) | | | | |
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| | STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH | | | | |
| | STANDARD | | | | |
| EON RAII | STRIP SEAL EXPANSION JOINT DETAILS | | | | |
| ETAINER | RAIL | | | | |
| ADJUST RED. | DOCUMENT NOT CONSIDERED NO. BY: DATE: NO. BY: DATE: | | | | |
| | FINAL UNLESS ALL 1 3 TOTAL SHEETS SIGNATURES COMPLETED 2 4 STD NO SSE11 | | | | |
| | STD. NO. SSEJ1 | | | | |