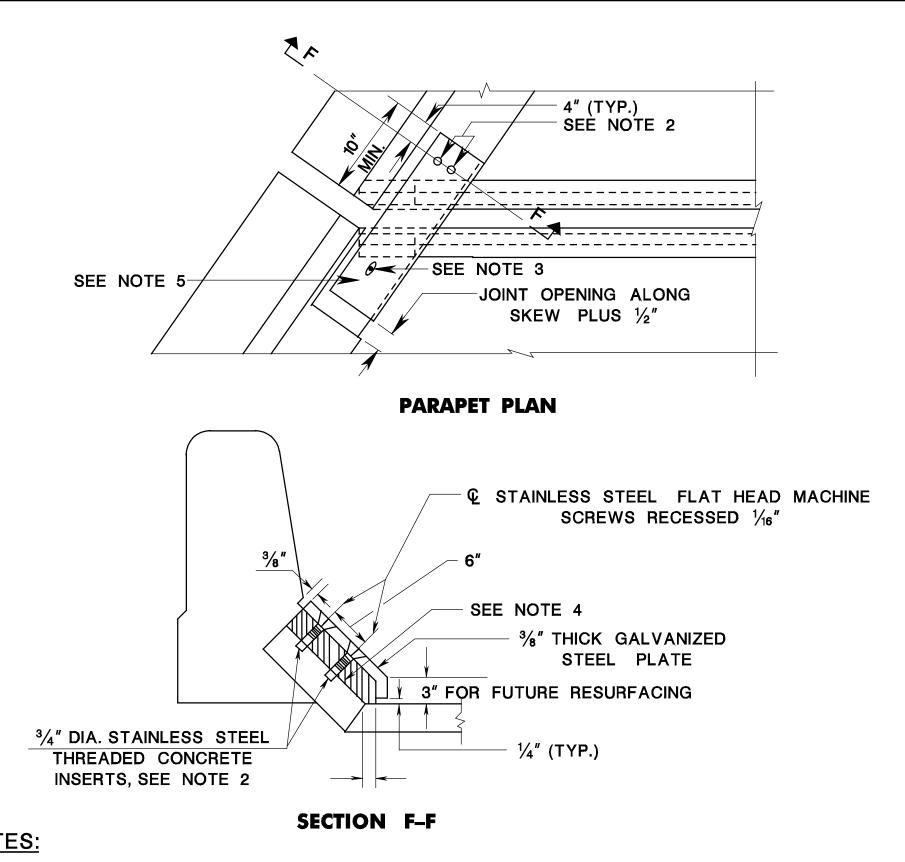


SIDEWALK PLAN

SKEW \geq 15 $^{\circ}$

BCD-507-1.4



NOTES:

- 1 THE DETAIL ABOVE IS INTENDED AS A GENERAL GUIDE TO A TYPICAL GLANDULAR TYPE STRIP SEAL SYSTEM. VARIATIONS TO THE GLAND SHAPE, RAIL SHAPE, STUD ARRANGEMENT, AND SUPPORT DETAILS SHALL BE SUBMITTED ACCORDING TO THE NJDOT WORKING DRAWING SPECIFICATIONS.
- 2 2 $\frac{3}{4}$ " DIA. X $1\frac{1}{2}$ " STAINLESS STEEL FLAT HEAD MACHINE SCREWS WITH 2 $\frac{3}{4}$ " DIA. CAST-IN-PLACE STAINLESS STEEL THREADED CONCRETE INSERTS. RECESS 1/16" BELOW PLATE SURFACE.
- 3 1" X 5" SLOTTED HOLE FOR SKEWS TO 45°; 1" X 6" SLOTTED HOLE FOR SKEWS OVER 45°. HOLE SLOTTED PARALLEL TO DIRECTION OF MOVEMENT WITH 1 - 3/4" X 11/2" STAINLESS STEEL FLAT HEAD MACHINE SCREW RECESSED 1/16" BELOW PLATE SURFACE IN 3/4" CAST-IN-PLACE STAINLESS STEEL THREADED CONCRETE INSERT. DO NOT OVER TIGHTEN MACHINE SCREWS.
- 4 BLOCK OUT CONCRETE AS REQUIRED ABOVE JOINT OPENING.

TYP.

SIDEWALK ELEVATION

3/8" GALVANIZED, CHECKERED A36

PLATE BENT TO FOLLOW CURB

WITH HOLES AS REQUIRED.

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5 3/8" THICK BY 1'-2" WIDE X (2'-0" LONG FOR SKEWS TO 45° AND 3'-0" LONG FOR SKEWS LARGER THAN 45°) GRADE 36 GALVANIZED STEEL PLATE BENT WITH HOLES AS SHOWN.

3/8" CHECKERED SLIDING

PLATE (GAL.)

CONTINUOUS

NEOPRENE SEAL

SECTION E-E

STAINLESS STEEL

FLAT HEAD MACHINE

SCREWS WITH THREADED INSERTS SPACED AT 1'-0"

CENTER TO CENTER MAX.

SEE NOTE 2

CONTINUOUS NEOPRENE STRIP SEAL (SHAPE VARIES) TOP OF ROADWAY— STEEL RAIL (SHAPE VARIES) 4" MAX. ➤ VENT HOLES WHEN REQUIRED SEE NOTE 9 $\frac{1}{2}$ " MIN. $-\frac{3}{8}$ " MIN. DIAPHRAGM CONNECTION PLATE 5/8" DIA. BY 6" AUTOMATIC (SHAPE AND CONFIGURATION VARIES). OTHER END WELDED ANCHOR STUDS AT 6" CONFIGURATIONS MAY BE USED PENDING **ALTERNATING CENTERS** ENGINEER'S APPROVAL

TYPICAL SECTION

NOTES:

- 1 THE DETAIL ABOVE IS INTENDED AS A GENERAL GUIDE TO A TYPICAL GLANDULAR TYPE STRIP SEAL SYSTEM. VARIATIONS TO THE GLAND SHAPE, RAIL SHAPE, STUD ARRANGEMENT, AND SUPPORT DETAILS SHALL BE SUBMITTED ACCORDING TO THE NJDOT WORKING DRAWING SPECIFICATIONS.
- 2 STEEL RAILS SHALL CONFORM TO AASHTO M270, GRADE 36 OR 50.
- 3 AUTOMATIC END WELDED STUDS SHALL CONFORM TO AASHTO M169 (ASTM A108), GRADES 1015, 1018 OR 1020.
- 4 PLATES, SHAPES AND OTHER STRUCTURAL STEEL MATERIAL USED IN THE DECK JOINT SYSTEM WITH THE STEEL RAILS SHALL CONFORM TO AASHTO M183.
- 5 ALL STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED AFTER FABRICATION PER ASTM A123.
- 6 FIELD SPLICES FOR STEEL RAILS SHALL BE PLACED AT GRADE BREAKS AND LONGITUDINAL BREAKS IN THE DECK.
- 7 NEOPRENE STRIP SEAL SHALL BE INSTALLED IN A CONTINUOUS LENGTH OVER THE ENTIRE WIDTH OF THE SUPERSTRUCTURE WITH NO FIELD SPLICES PERMITTED. AN APPROVED LUBRICANT/ADHESIVE FOR THE INSTALLATION AND PERMANENT BONDING TO THE STEEL RAIL SHALL BE PLACED PRIOR TO THE STRIP SEAL INSTALLATION.
- 8 WHERE A LONGITUDINAL AND TRANSVERSE JOINT INTERSECT, THE JOINT SUBJECTED TO THE GREATER MOVEMENT SHALL BE MADE CONTINUOUS AND THE OTHER SEAL SHALL BUTT UP AGAINST IT. ALL JOINT INTERSECTIONS SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.
- 9 1/6" DIA. VENT HOLES SPACED BETWEEN STUDS AT 1'-0" CENTER TO CENTER MAX. ARE REQUIRED WHEN TOP OF STEEL RAIL IS WIDER THAN 3".

BCD-507-1.3

BCD-507-1



BCD-507-1.2

EDGE

PLUS 1/2"

SECTION D-D

DEPTH OF RAIL 8"

MIN. IN ROADWAY REGION.

SEE NOTE 3

JOINT OPENING-

- 1 THE DETAIL SHOWN HERE IS INTENDED AS A GENERAL GUIDE TO A TYPICAL GLANDULAR TYPE STRIP SEAL SYSTEM. VARIATIONS TO THE GLAND SHAPE, RAIL SHAPE, STUD ARRANGEMENT, AND SUPPORT DETAILS SHALL BE SUBMITTED ACCORDING TO THE NJDOT WORKING DRAWING SPECIFICATIONS.
- 2 3/4" DIA. X 11/2" STAINLESS STEEL FLAT HEAD MACHINE SCREWS WITH 3/4" DIA. CAST-IN-PLACE STAINLESS STEEL THREADED CONCRETE INSERTS. RECESS 1/16" BELOW PLATE SURFACE.
- 3 UPON COMPLETION, FILL JOINT OPENING WITH A LOW MODULUS SILICON RUBBER JOINT SEALER CONFORMING TO ASTM D 5893 WITH A MIN. ULTIMATE ELOGATION OF 1200 PERCENT. THE JOINT FILLER SHALL MATCH THE COLOR OF THE CONCRETE.



NEW JERSEY DEPARTMENT OF TRANSPORTATION BUREAU OF STRUCTURAL ENGINEERING

BRIDGE CONSTRUCTION DETAILS

BCD-507-1.5

146

6" MAX.