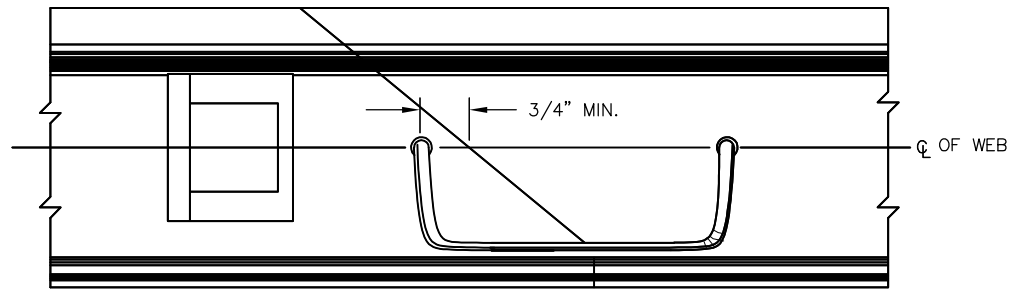
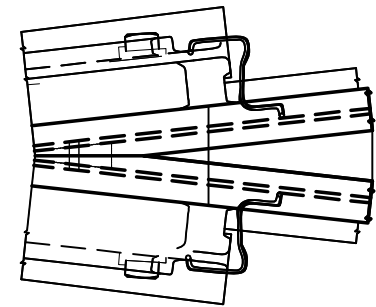


BONDS

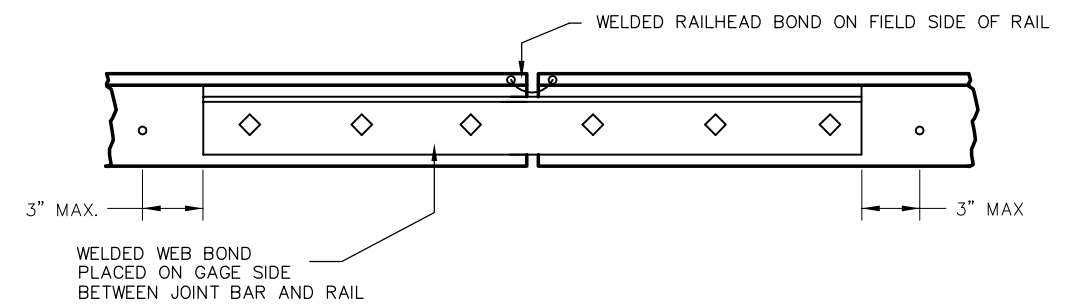


3/4" MIN.

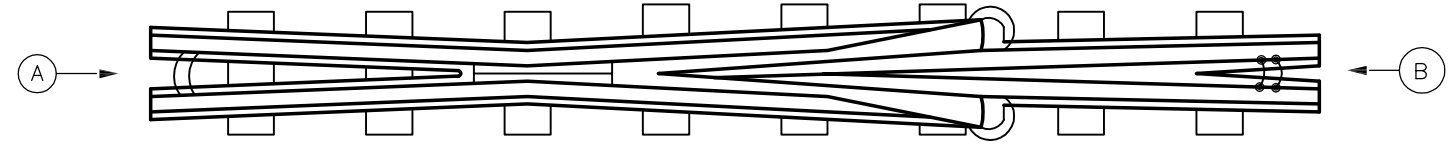
CL OF WEB



TURNOUT FROG BONDING

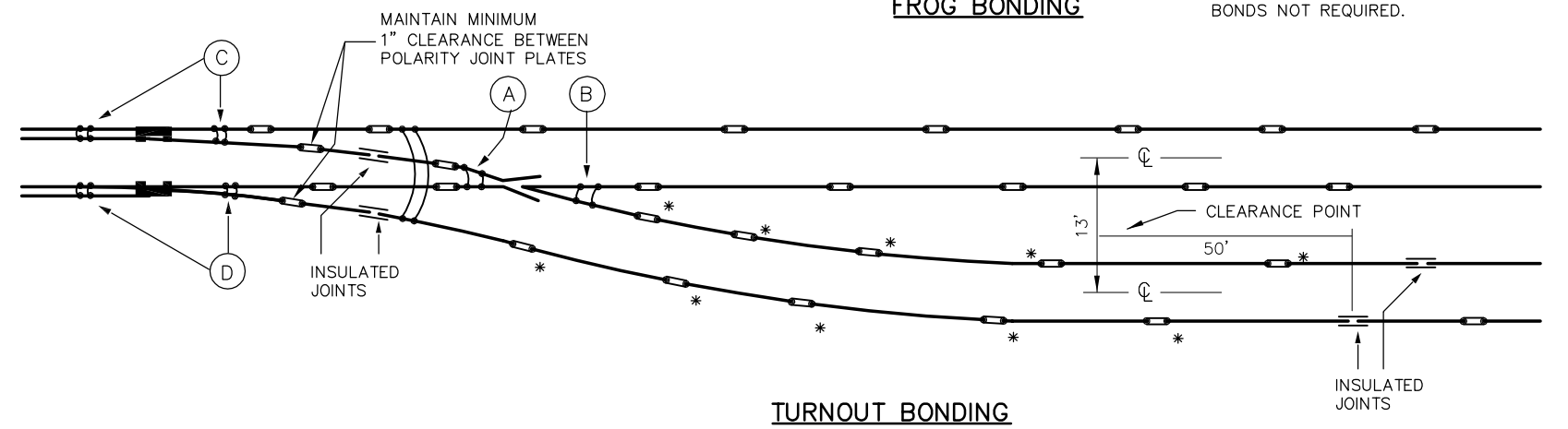


JOINT BONDING



FROG BONDING

NOTE: IN PLACE OF WHERE 2 WING RAILS ARE WELDED - ONE PIECE BONDS NOT REQUIRED.



TURNOUT BONDING

NOTES:

1. BONDS BETWEEN RAILS AT A, B, C AND D SHALL BE APPLIED TO RAIL WEB
2. TURNOUTS SHALL BE DOUBLE BONDED USING ONE WEB TYPE BOND AND ONE RAILHEAD BOND, WITH EXCEPTION TO JOINTS MARKED WITH AN (*), THOSE JOINTS ONLY REQUIRE RAILHEAD BOND WHEN TURNOUT TERMINATES IN A TRACK RELAY
3. ALL WEB BONDS SHALL BE 3/16" IN DIAMETER, 12" LONG WITH STEEL TERMINALS WELDED TO THE WEB OF THE WELDED TYPE
4. ALL RAILHEAD BONDS SHALL BE 3/16" IN DIAMETER WITH STEEL TERMINALS WELDED TO CONDUCTORS OF THE WELDED TYPE. THEY SHALL HAVE A NOMINAL LENGTH OF 6 1/2"
5. LOCATION OF THE INSULATED JOINTS MAY BE MODIFIED ONLY WITH THE ENGINEER'S APPROVAL
6. PLACEMENT OF BOND WIRES SHALL MAXIMIZE BROKEN RAIL DETECTION
7. WIRES TO FOLLOW CONTOUR OF RAIL AND TIE WITH NO EXCESS SLACK
8. ALL BONDS AND TRACK CONNECTIONS UTILIZING 3/16" BOND STRAND SHALL BE WITH STEEL TERMINALS WELDED TO THE RAIL
9. WHERE THE 2 WING RAILS ARE WELDED AS ONE PIECE BONDS ARE NOT REQUIRED
10. ON RIGID FROG, BONDS SHALL BE INSTALLED ON THE SIDE OF THE FROG ON WHICH THE HEADS OF BOLTS ARE LOCATED. ON SPRING RAIL FROG, BONDS ARE NOT REQUIRED ON MOVEABLE SIDE
11. DISTANCE BETWEEN TERMINALS IS SHOWN AS 1". THIS DIMENSION MAY DECREASE, WHEN NECESSARY, DUE TO LIMITED DISTANCE FROM BOLT TO THE END OF THE RAIL
12. WHEN A PLATE CLIP (ON SPRING RAIL FROGS) INTERFERES WITH APPLICATION OF BONDS AS SHOWN HEREON, THE PLATE CLIP SHALL BE ARRANGED TO PERMIT PROPER INSTALLATION OF THE BONDS

REV	DATE	BY	CHK	APP	DESCRIPTION	REV	DATE	BY	CHK	APP	DESCRIPTION

PENINSULA CORRIDOR JOINT POWERS BOARD

APPROVED BY:

Bernard Anzures *Steph Chen*

ENGINEERING MANAGER DEPUTY DIRECTOR OF ENGINEERING



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STANDARD DRAWINGS

SIGNAL AND COMMUNICATION
GENERAL SIGNAL

RAIL BONDING DETAILS

CADD FILE NO.:	SD-5112
REV	DATE
0	093011
SIGNAL	
STANDARD NO.:	SD-5112