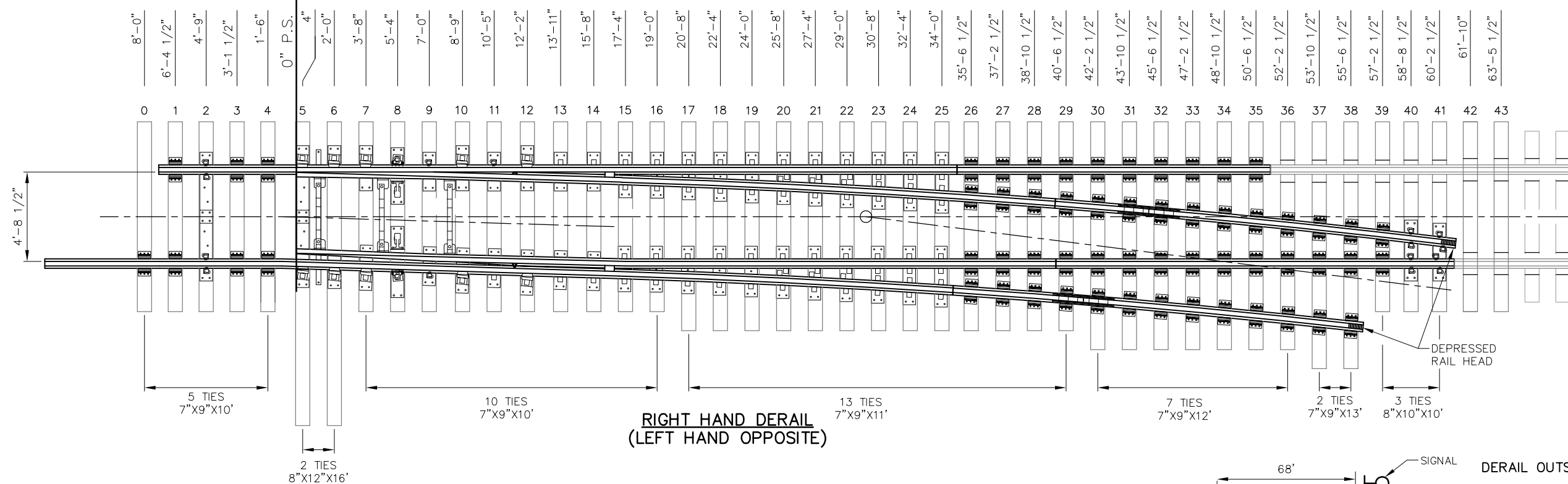


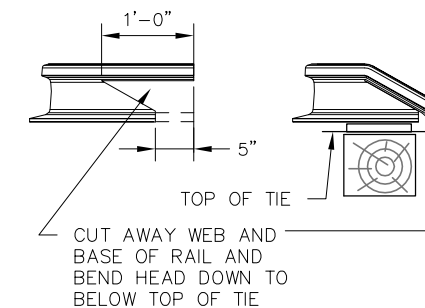
**DERAIL GEOMETRY**



**RIGHT HAND DERAIL  
(LEFT HAND OPPOSITE)**

**NOTES**

- POINTS AND STOCK RAILS ARE UNDERCUT. SEE DRAWING SD-2404 FOR UNDERCUT DETAILS
- LAYOUT BASED ON A NO. 8 TURNOUT
- RAIL LENGTHS ALLOW 1/8" GAP BETWEEN RAIL JOINTS FOR FIELD ASSEMBLY. ALL JOINTS SHALL BE WELDED. NO BOLTED JOINTS ARE ALLOWED WITHIN THE DERAIL LIMITS
- DERAIL SHOWN IS FOR TIMBER TIES, FASTENED WITH PANDROL E CLIPS
- FOR CONNECTING RODS AND SWITCH STAND DETAIL SEE SD-2410 & SD-2411
- DOUBLE POINT SPLIT SWITCH DERAIL IS USED FOR MAIN LINE ONLY, USE HAYES MODEL DERAILS FOR NON-MAINLINES, YARDS AND INDUSTRY TRACKS
- THIS DRAWING IS A REFERENCE FOR DESIGN AND LAYOUT. SHOP DRAWINGS FOR ALL COMPONENTS SHALL BE SUBMITTED FOR APPROVAL BY CALTRAIN ENGINEERING PRIOR TO FABRICATION

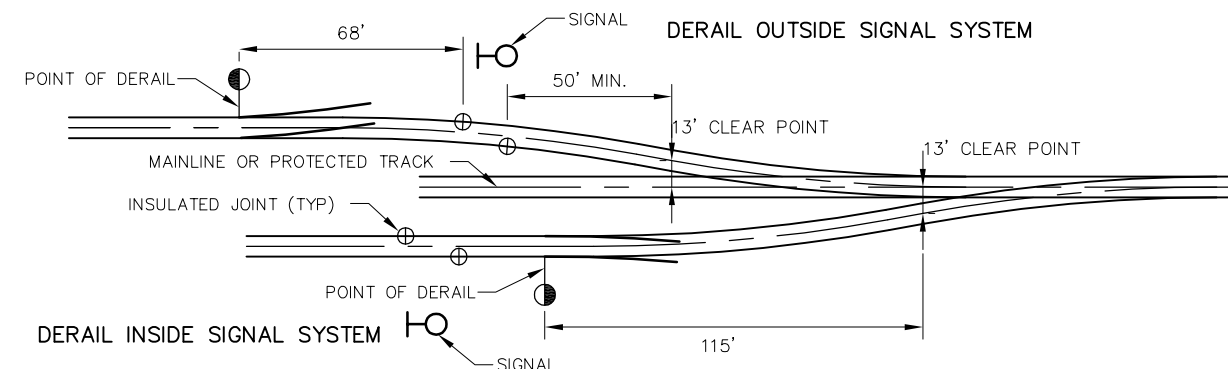


**DEPRESSED RAIL HEAD DETAIL**

DERAIL SPECIFICATIONS	
ANGLE	7'-09'-10"
THROW OF SWITCH AT # 1 ROD	4 3/4"
LENGTH OF SWITCH POINT	16'-6"
ENTRY ANGLE	1'-44'-11"
VERTEX DISTANCE	8 1/4" @ CENTERLINE
CENTERLINE RADIUS	487'-3 3/8"
DEGREE OF CURVE	5'-53'-22"
P.S. TO CENTER OF LAST LONG TIE	63'-5 1/2"

BILL OF MATERIAL		
ITEM	QTY	DESCRIPTION
1	1	16'-6"/40'-0" SWITCH (42'-0" STRAIGHT STOCK RAIL & 48'-0" CURVED STOCK RAIL)
2	1	DRILLED RAIL, 136RE, 16'-6" LONG
3	1	DRILLED RAIL, 136RE, 20'-11 3/4" LONG
4	1	DRILLED RAIL, 136RE, 21'-2 5/16" LONG WITH DEPRESSED RAIL HEAD
5	1	DRILLED RAIL, 136RE, 21'-8 3/16" LONG WITH DEPRESSED RAIL HEAD

\* BILL OF MATERIAL SHOWN DOES NOT INCLUDE TIES, PLATES, RODS, AND OTM.



**PERMANENT DERAIL INSTALLATION LOCATIONS**

**PENINSULA CORRIDOR JOINT POWERS BOARD**

APPROVED BY:

*Bernard Anzures* *Steph Chen*  
ENGINEERING MANAGER DEPUTY DIRECTOR OF ENGINEERING



**STANDARD DRAWINGS**

SPECIAL TRACKWORK  
TURNOUTS AND DERAILS  
16'-6" 136 RE DOUBLE POINT  
SPLIT SWITCH DERAIL

CADD FILE NO.:		SD-2901
REV	DATE	093011
0		
SPECIAL TRACKWORK		
STANDARD NO.:		SD-2901

REV	DATE	BY	CHK	APP	DESCRIPTION