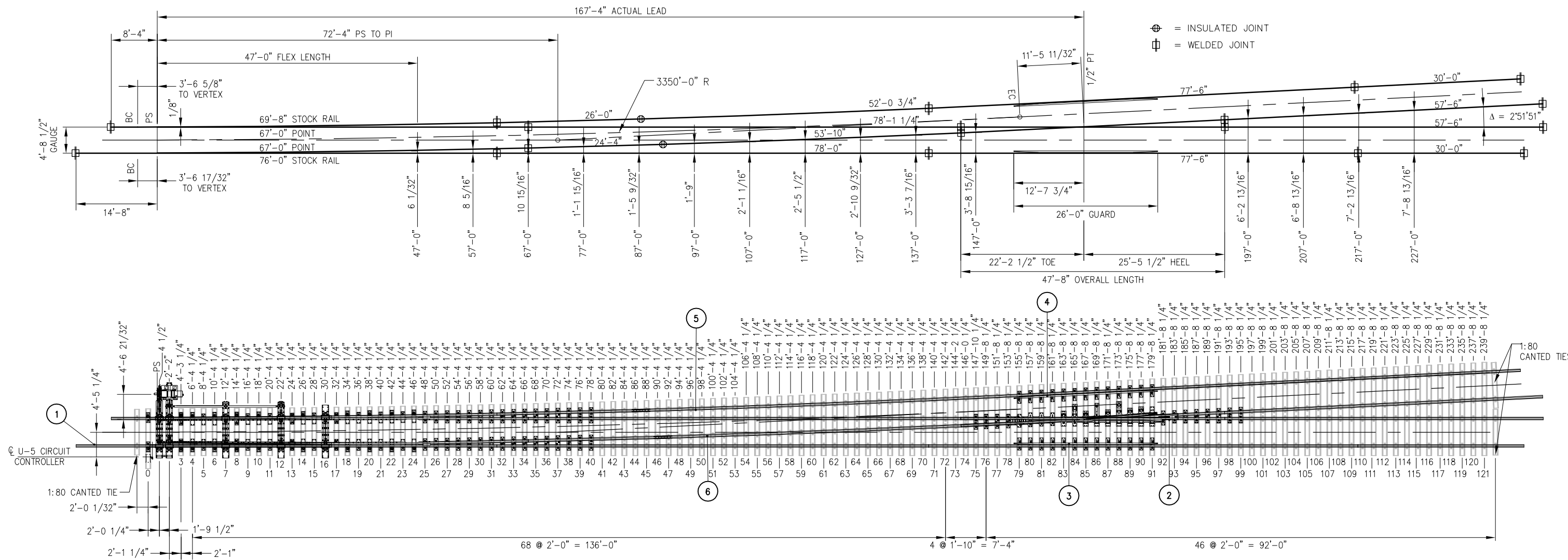


BILL OF MATERIAL				BILL OF MATERIAL			
ITEM	QTY	DESCRIPTION	DWG NO	ITEM	QTY	DESCRIPTION	DWG NO
1	1	SWITCH PACK, NO 20-136 LB RE MODIFIED TANGENTIAL, LH, HST	SD-2707	12	492	TIE SCREW, CONCRETE ?" DIA X 6" HEX HEAD	-
2	1	FROG PACK, NO 20-136 LB RE WSM, LH	SD-2721	13	492	WASHER FLAT ? TYPE A NARROW 15/16" X 1 3/4" X 0.134"	-
3	1	GUARD RAIL ASSEMBLY BOLTLESS, 26'-0" LG, 136 LB RE RAISED 1", STRAIGHT	SD-2738	14	492	SPRING WASHER, DOUBLE COIL (FE6)	-
4	1	GUARD RAIL ASSEMBLY BOLTLESS, 26'-0" LG, 136 LB RE RAISED 1", LH	SD-2737	15	1	CONCRETE TIE SET, 0-121 + (3) 1:80 TIES, PLATE PADS, LH	-
5	1	INSULATED RAIL ASSEMBLY, 78'-0 3/4" C/W BONDED INSULATED JOINT	-	16	500	CLIP PANDROL E2055	-
6	1	INSULATED RAIL ASSEMBLY, 78'-2" C/W BONDED INSULATED JOINT	-	17	500	INSULATOR PANDROL FEATRUES BASE HOLDOWN NYLON HD-10	-
7	2	DRILLED RAIL, 136 LB RE, 30'-0" LONG	-	18	8	CLIP PANDROL E2063	-
8	2	DRILLED RAIL, 136 LB RE, 57'-6" LONG	-	19	8	INSULATION, PANDROL NYLON 6790	-
9	2	DRILLED RAIL, 136 LB RE, 77'-6" LONG	-	20	254	TIE PAD PANDROL 6993SR	-
10	1	DRILLED RAIL, 136 LB RE, 78'-0" LONG	-	21	246	SHIM, TO REDUCE PLATE FLEXURE	-
11	1	DRILLED RAIL, 136 LB RE, 78'-1 1/4" LONG	-				



NOTES:

- ALL RAILS SHALL HAVE IDENTIFICATION COLOR CODE PAINTED ON WEB, CLEAR OF JOINT AREA
- RAIL LENGTHS ALLOW 1/8" GAP BETWEEN RAIL JOINTS FOR WELDING
- GUARD RAILS ARE RAISED 1" AND FORM A 1 7/8" FLANGWAY
- COORDINATE SWITCH MACHINE AND MACHINE PLATE (NIC) WITH CALTRAIN
- ALL TIE LENGTHS SHALL INCLUDE 1'-9" FROM TIE ENDS TO RAIL CENTERLINE, EXCEPT AS NOTED AND 1:80 CANTED TIES
- TIGHTEN TIE SCREW WITH DOUBLE COIL SPRING WASHER IN PLACE
- SCHWIHAG ROLLERS SHALL BE INSTALLED AND ADJUSTED IN THE FIELD

TURNOUT DATA:

FROG	NO 20	Δ = 2°51'51"	SWITCH	LENGTH OF POINT: 47'-0" / 67'-0"	ACTUAL LEAD: 167'-4"
	TOE LENGTH: 22'-2 1/2"		VERTEX DISTANCE: VARIES PER SIDE	CLOSURE AREA	
	HEEL LENGTH: 25'-5 1/2"		ENTRY ANGLE: 0°11'55"	CENTERLINE RADIUS: 3350'-0"	
	TOTAL LENGTH: 47'-8"		THICKNESS AT POINT: 1/8"	DEGREE OF CURVE: 1°42'37"	
			THROW AT ROD # 1 : 4 3/4"	DESIGN SPEEDS	
				50 MPH PASSENGER @ 3" UNBALANCE	
				40 MPH FREIGHT @ 2" UNBALANCE	

					PENINSULA CORRIDOR JOINT POWERS BOARD					STANDARD DRAWINGS					CADD FILE NO: SD-2703		
					APPROVED BY: <i>Bernard Anzures</i> <i>Steph Chen</i>					SPECIAL TRACKWORK NO 20 LH TURNOUT WITH WSM FROG AND HST SWITCH MACHINE ON TURNOUT SIDE					REV 0	DATE 093011	
					ENGINEERING MANAGER					DEPUTY DIRECTOR OF ENGINEERING					SPECIAL TRACKWORK		
										1250 San Carlos Avenue San Carlos, CA 94070					STANDARD NO.: SD-2703		
REV	DATE	BY	CHK	APP	DESCRIPTION	REV	DATE	BY	CHK	APP	DESCRIPTION	REV	DATE	BY	CHK	APP	DESCRIPTION