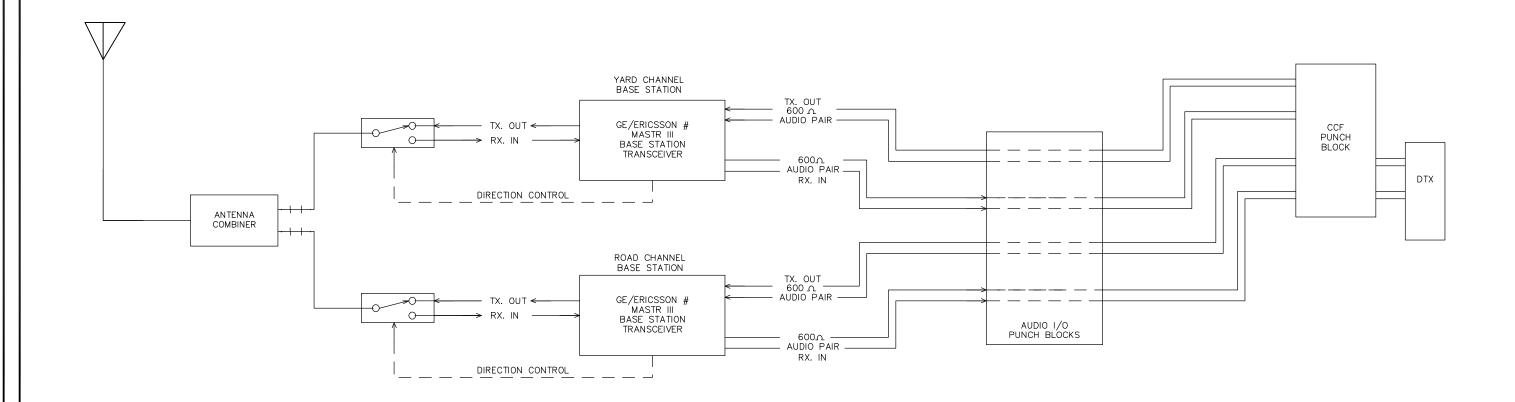
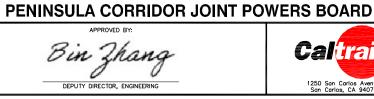


NOTES:

- 1. LOCATION: N37 19' 44.6" / W 122 54' 1.5", ELEVATION (TERRAIN & TOWER): 130'
- 2. ANTENNA AZIMUTH: 334' / 154' (DUAL YAGI ANTENNAS ORIENTED 180' WRT EACH OTHER)
- 3. DRAWING DEPICTS THE COAXIAL RELAYS CONFIGURED TO SUPPORT BASE STATION TRANSMIT OPERATIONS



					01012024 FOURTH EDITION						
REV	DATE	BY	СНК	APP	DESCRIPTION	REV	DATE	BY	СНК	APP	<u> </u>



Caltrain.
1250 San Carlos Avenue San Carlos, CA 94070

TRAIN CONTROL COMMUNICATION VOICE RADIO — EXISTING SYSTEM EXISTING SYSTEM
SAN JOSE BASE STATION

STANDARD DRAWINGS

CADD	FILE	NAME:	
		SD-6051	
REV:		EDITION:	
		FOURTH	
	TR.	AIN CONTROL	

STANDARD DRAWING NO.: SD-6051

NOTES: 1. LOCATION: N37'30'23.4"/W122'15'43.1", ELEVATION (TERRAIN & TOWER): 99' 2. ANTENNA AZIMUTH: 140" (DIRECTIONAL: YAGI) 3. DRAWING DEPICTS THE COAXIAL RELAYS CONFIGURED TO SUPPORT BASE STATION TRANSMIT OPERATIONS 4. THE COLD / STANDBY BASE STATION IS PROGRAMMED TO THE SAME OPERATING FREQUENCIES & CONFIGURED IDENTICAL TO THE ACTIVE BASE STATION, HOWEVER ITS POWER SWITCH IS SET TO OFF COLD / STAND BY BASE STATION (SEE NOTE 4) ANTENNA MOTOROLA MAXTRAC BASE STATION TRANSCEIVER AZIMUTH: 140° LEASED 4W & E5M CIRCUITS TO SAN JOSE BASE STATION MPOE ACTIVE BASE STATION TX. OUT 600Ω AUDIO PAIR — TX. OUT ← GE/ERICSSON # MASTR III BASE STATION TRANSCEIVER \odot RX. IN Ω 000 AUDIO PAIR RX. IN DIRECTION CONTROL PENINSULA CORRIDOR JOINT POWERS BOARD STANDARD DRAWINGS SD-6052 TRAIN CONTROL COMMUNICATION FOURTH Calirain VOICE RADIO - EXISTING SYSTEM TRAIN CONTROL EXISTING SYSTEM

DEPUTY DIRECTOR, ENGINEERING

STANDARD DRAWING NO.:

SD-6052

SAN CARLOS BASE STATION

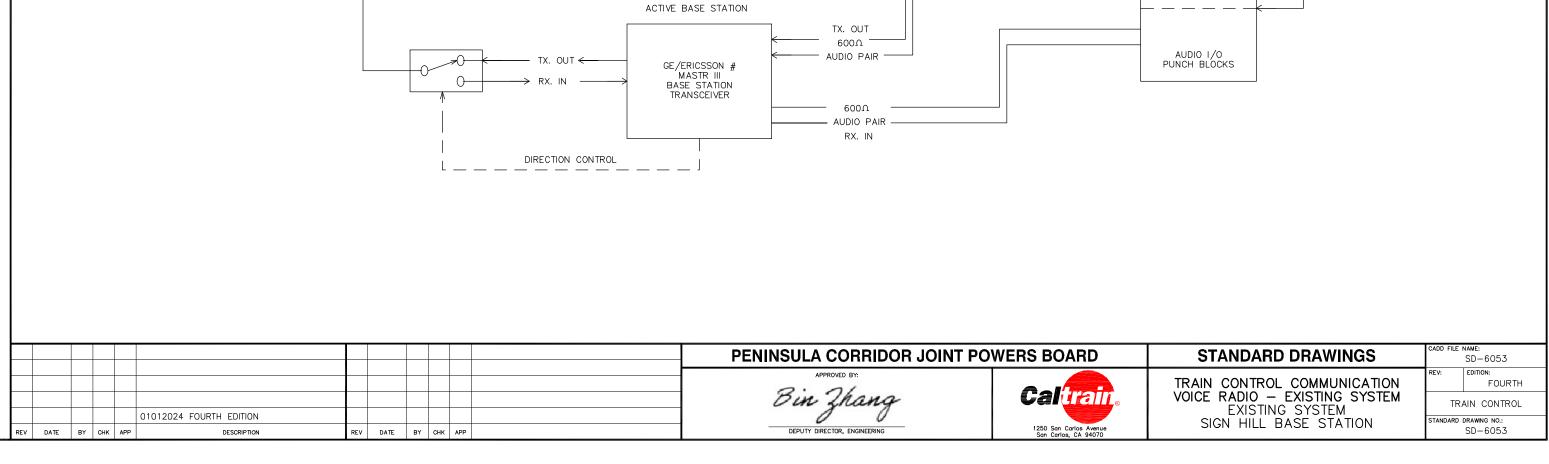
1250 San Carlos Avenue San Carlos, CA 94070

01012024 FOURTH EDITION

REV DATE BY CHK APP

REV DATE BY CHK APP

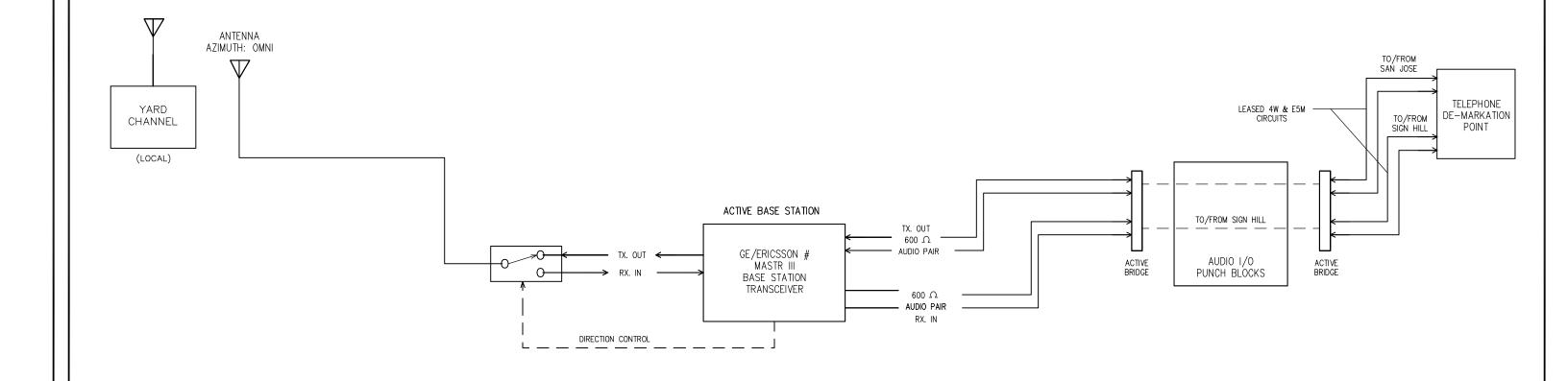
NOTES: 1. LOCATION: N37 39 53.8 / W122 25 14.1, ELEVATION (TERRAIN & TOWER): 576 2. ANTENNA AZIMUTH: 156" (DIRECTIONAL: YAGI) 3. DRAWING DEPICTS THE COAXIAL RELAYS CONFIGURED TO SUPPORT BASE STATION TRANSMIT OPERATIONS 4. THE COLD / STANDBY BASE STATION IS PROGRAMMED TO THE SAME OPERATING FREQUENCIES & CONFIGURED IDENTICAL TO THE ACTIVE BASE STATION, HOWEVER ITS POWER SWITCH IS SET TO OFF TELEPHONE DE-MARKATION POINT LEASED 4W & E5M -CIRCUITS TO/FROM 4TH STREET TX. OUT 000£ AUDIO I/O PUNCH BLOCKS AUDIO PAIR 600Ω AUDIO PAIR RX. IN



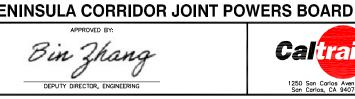
ANTENNA AZIMUTH: 156

NOTES:

- 1. LOCATION: N37' 46' 28.8" / W122' 23' 50.2", ELEVATION (TERRAIN & TOWER): 65'
- 2. ANTENNA AZIMUTH: (OMNI DIRECTIONAL)
- 3. DRAWING DEPICTS THE COAXIAL RELAYS CONFIGURED TO SUPPORT BASE STATION TRANSMIT



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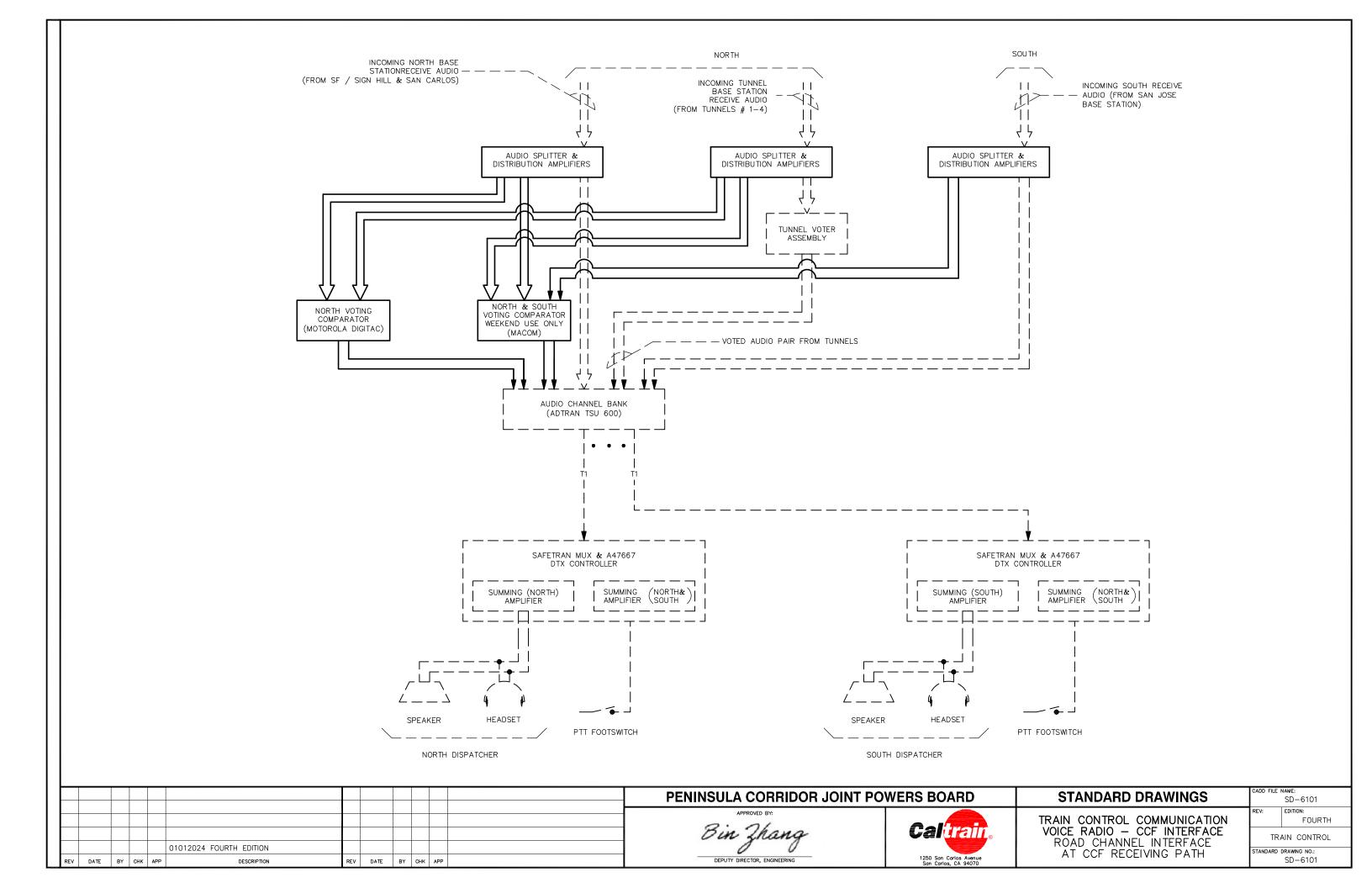


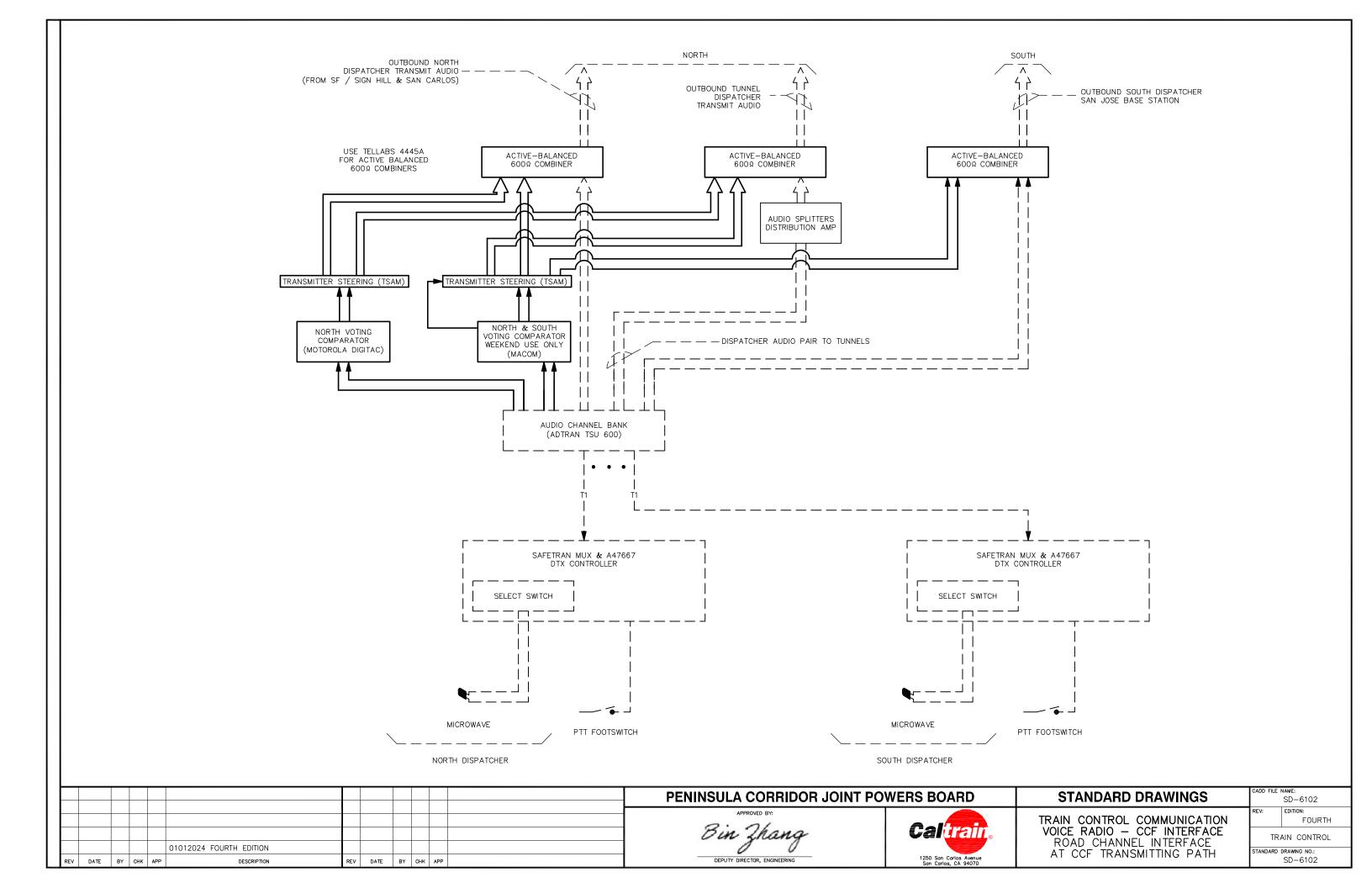
TRAIN CONTROL COMMUNICATION VOICE RADIO — EXISTING SYSTEM EXISTING SYSTEM 4TH STREET BASE STATION

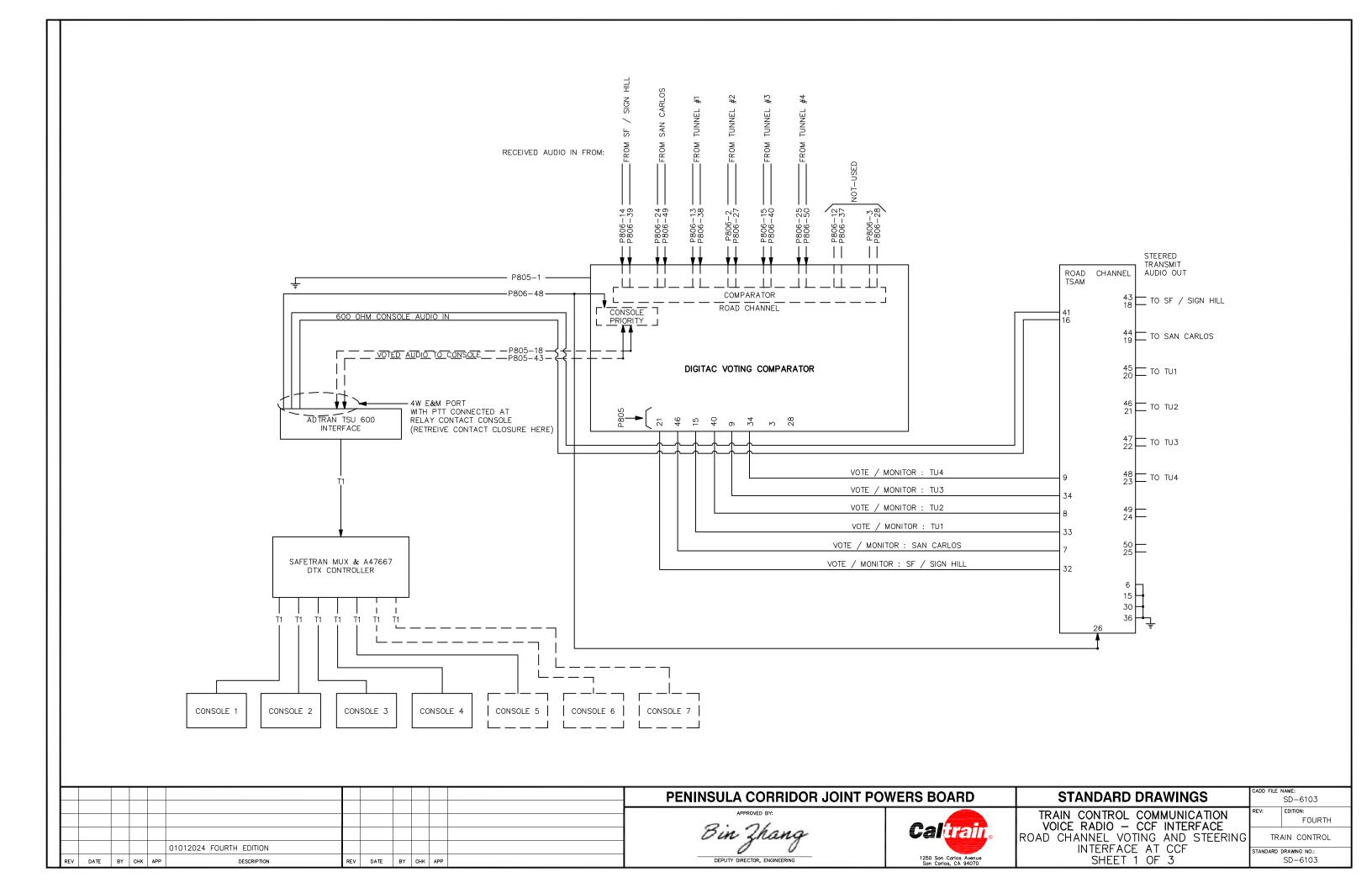
STANDARD DRAWINGS

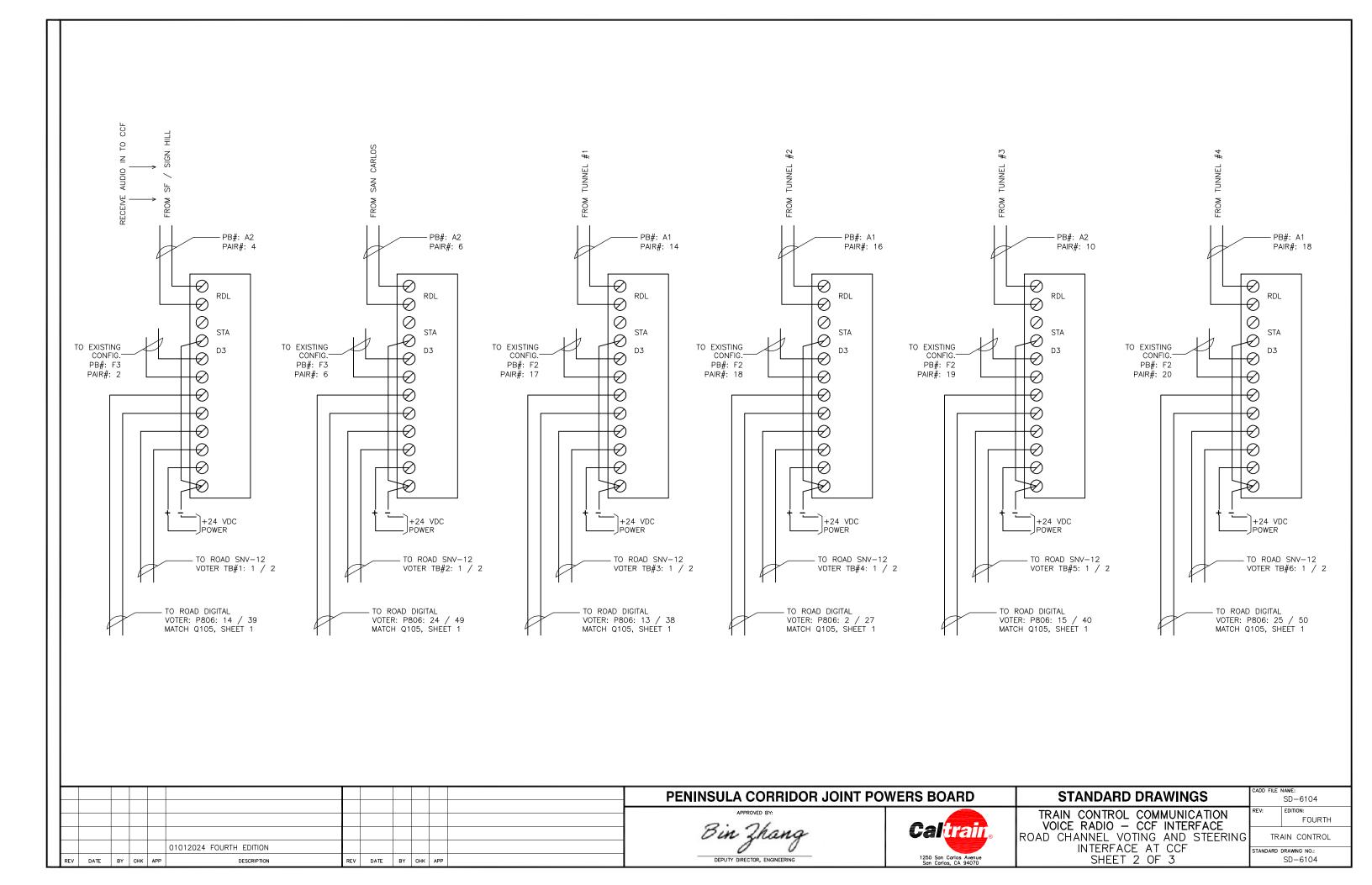
CADD FILE NAME:											
SD-6054											
REV:	EDITION:										
	FOURTH										
TRA	AIN CONTROL										

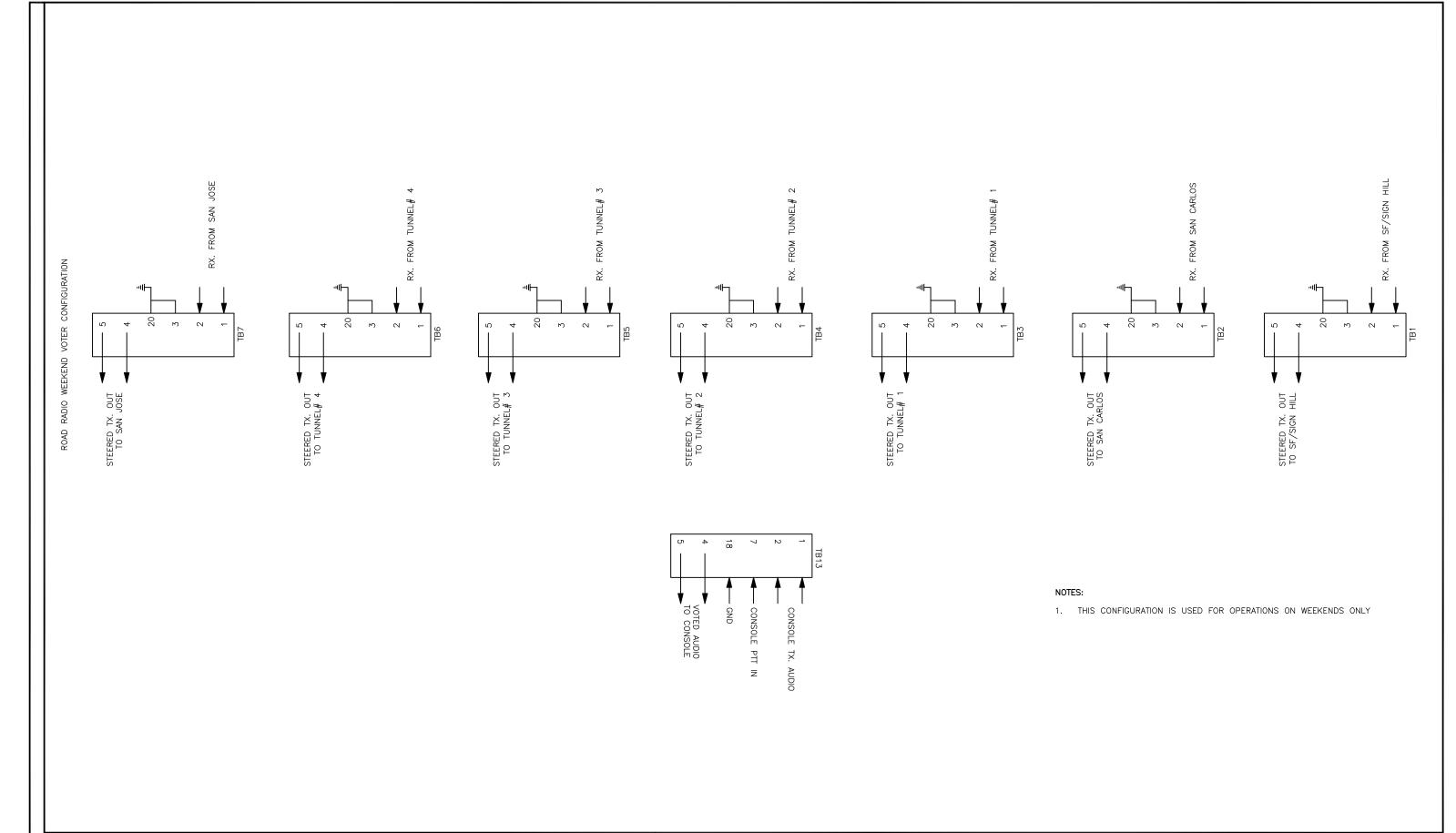
STANDARD DRAWING NO.: SD-6054



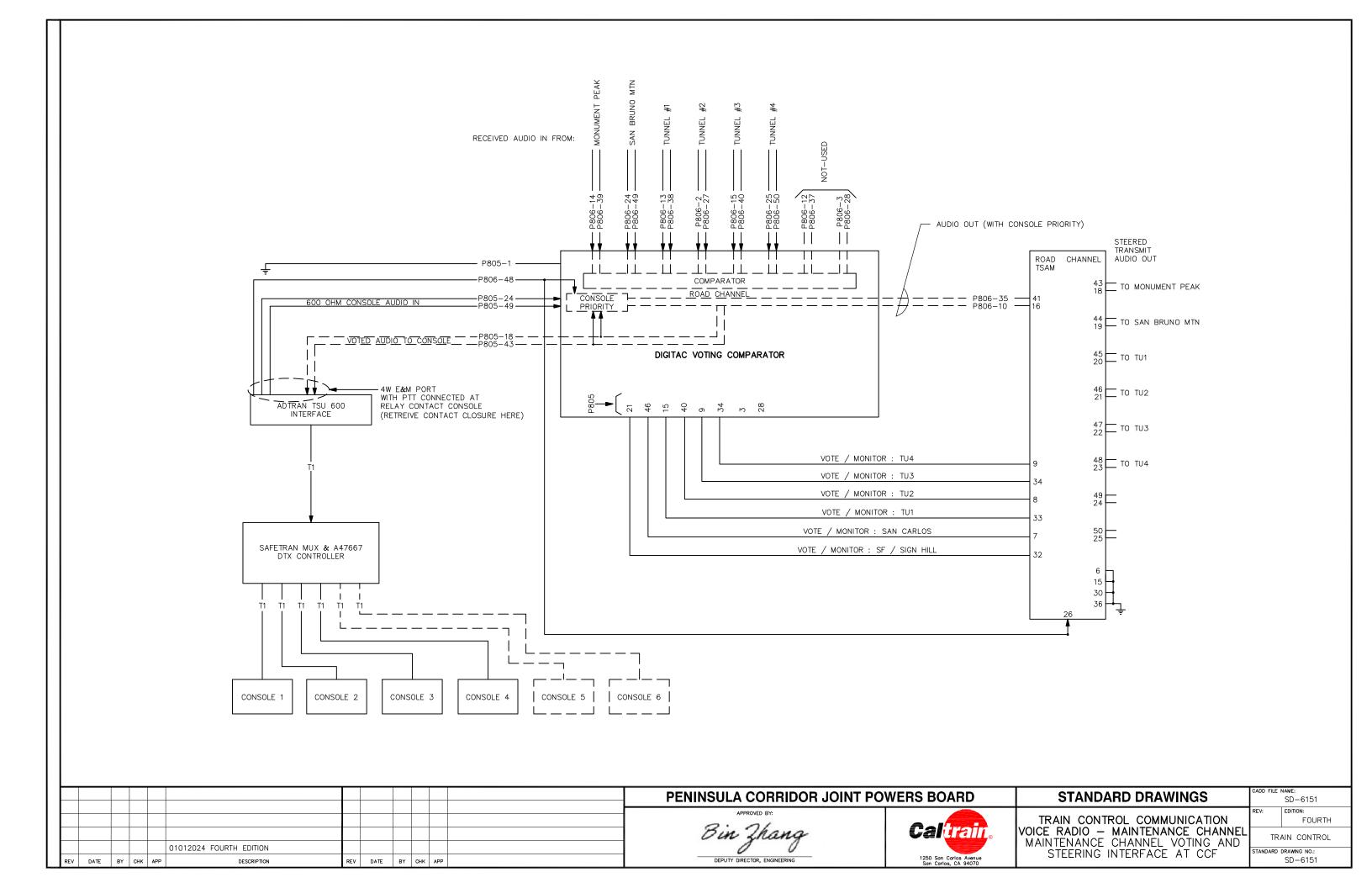


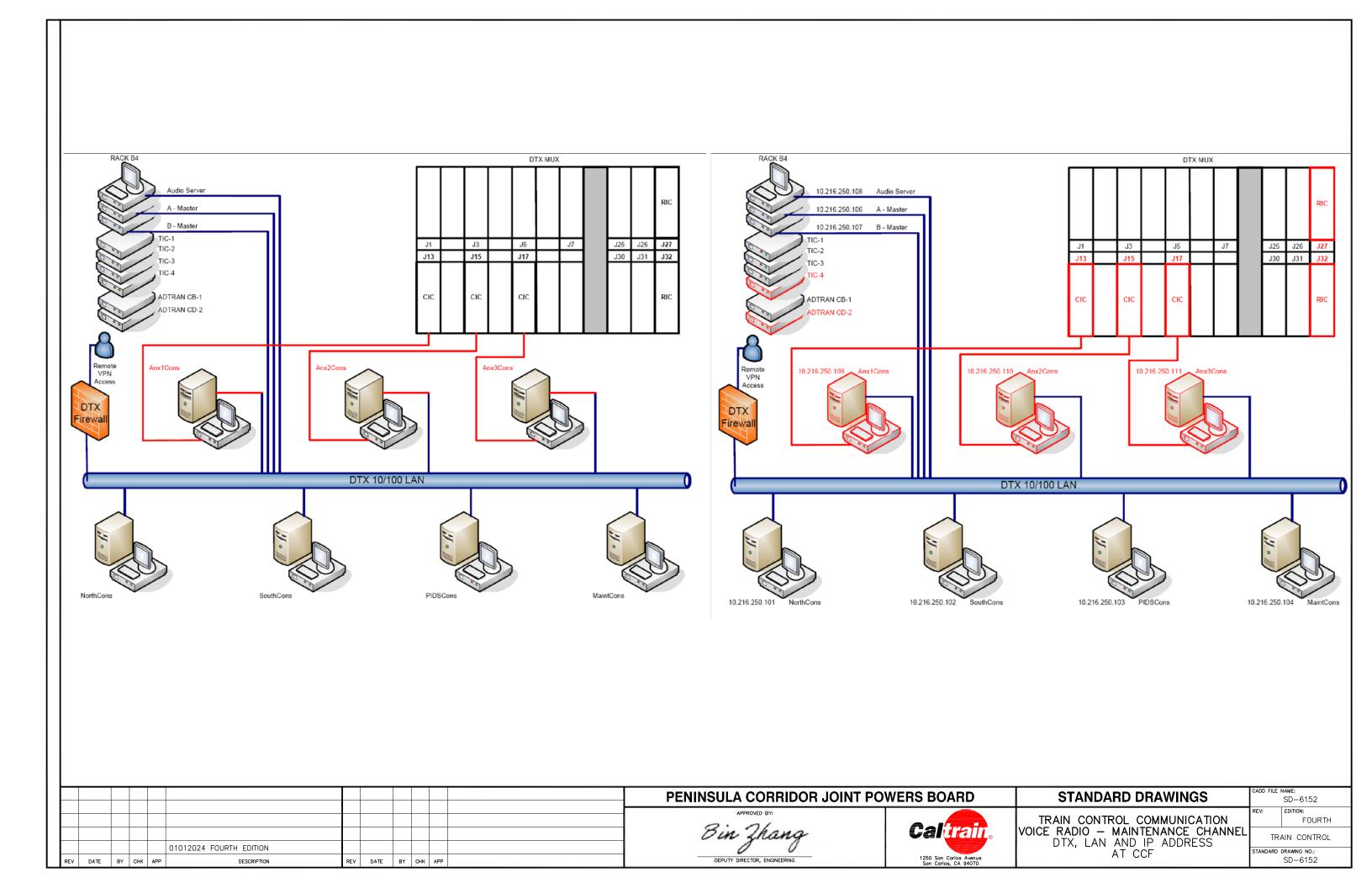


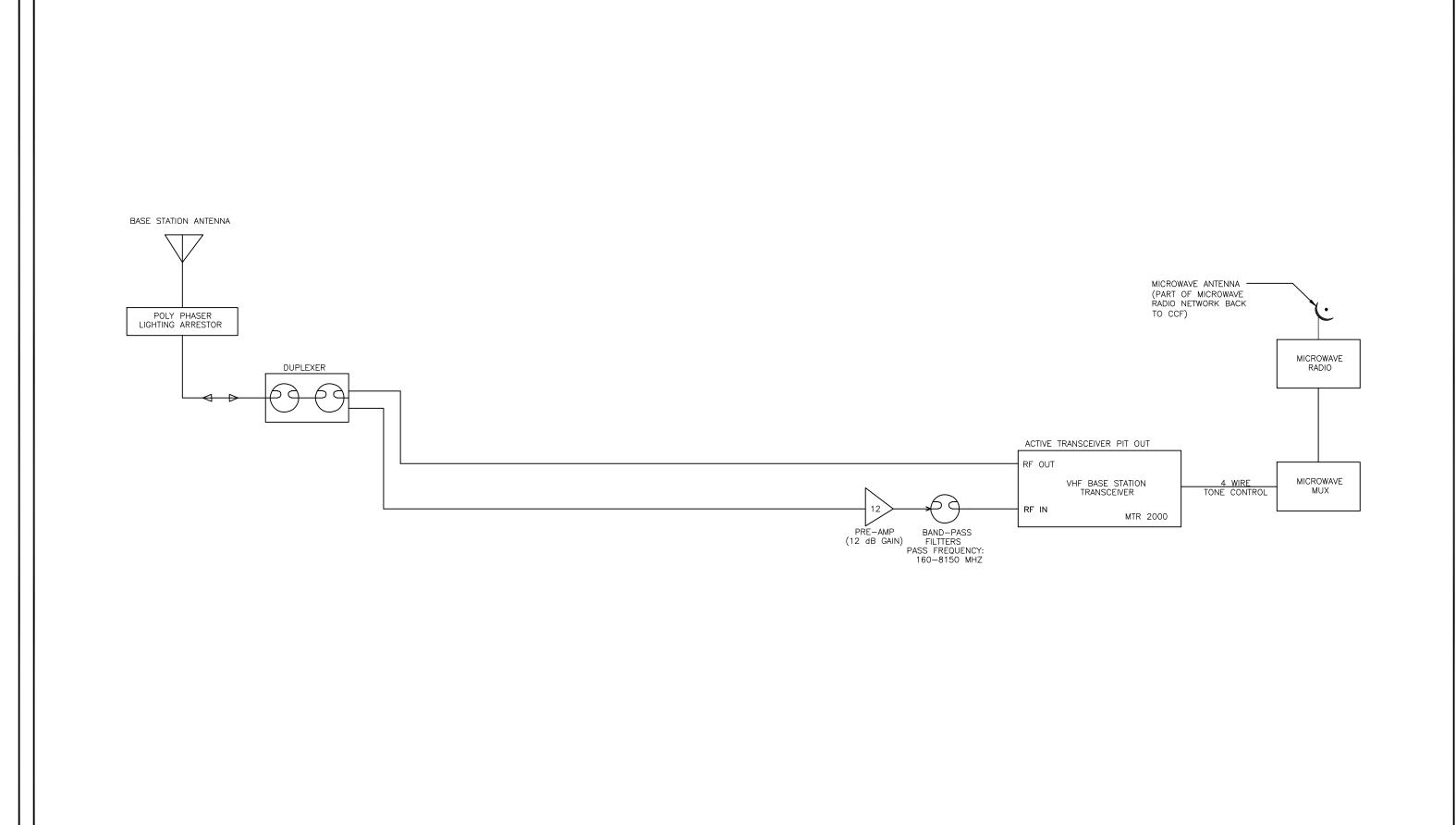




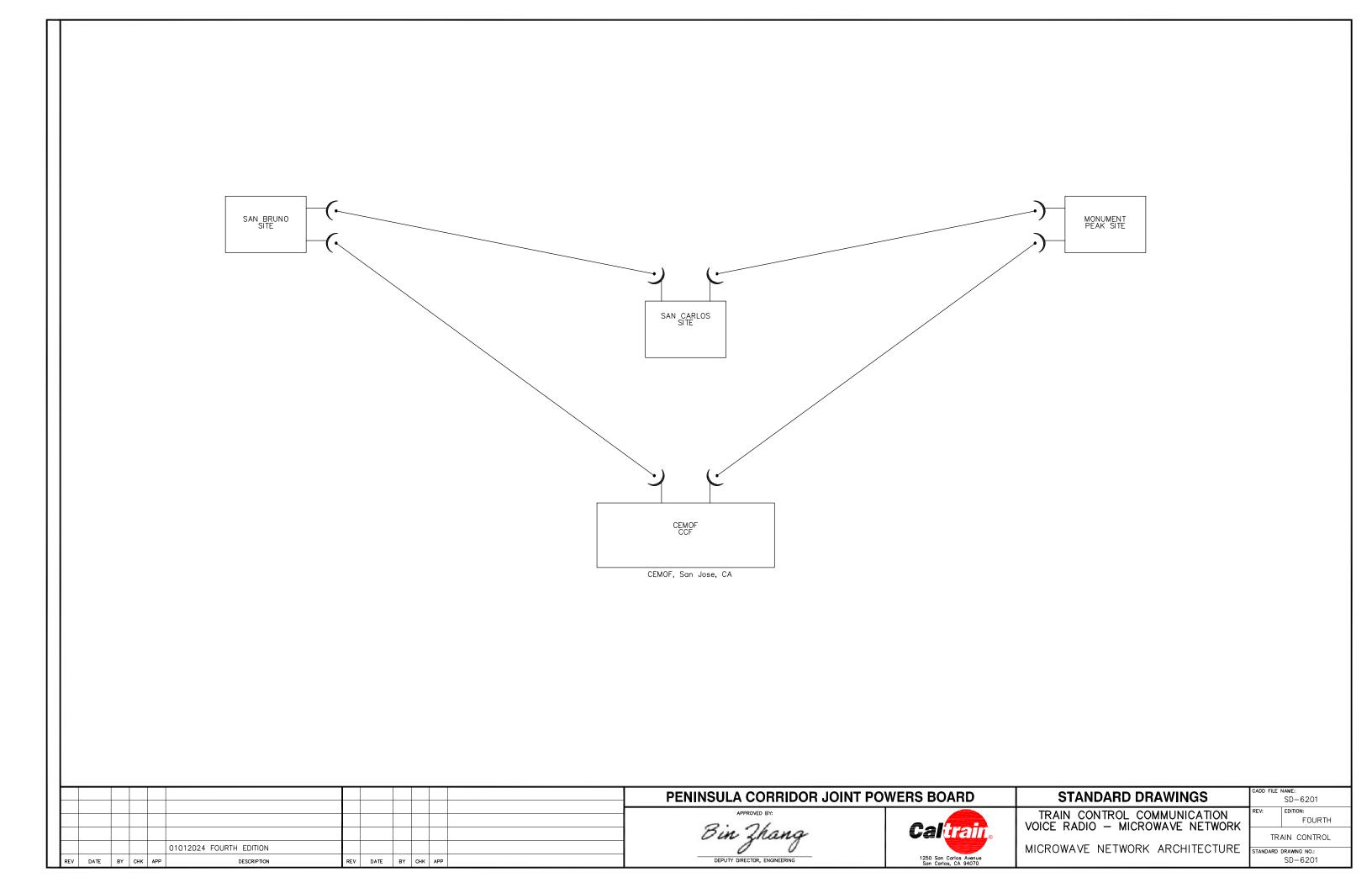
							PENINSULA CORRIDOR JOINT PO	WERS BOARD	STANDARD DRAWINGS	cadd file name: SD-6105
							Bin Zhang	Caltrain.	TRAIN CONTROL COMMUNICATION VOICE RADIO — CCF INTERFACE ROAD CHANNEL VOTING AND STEERING	REV: EDITION: FOURTH TRAIN CONTROL
EV DATE	ву снк	01012024 FOURTH EDITION APP DESCRIPTION	REV D	ATE E	BY CHK	APP	DEPUTY DIRECTOR, ENGINEERING	1250 San Carlos Avenue San Carlos, CA 94070	INTERFACE AT CCF SHEET 3 OF 3	STANDARD DRAWING NO.: SD-6105

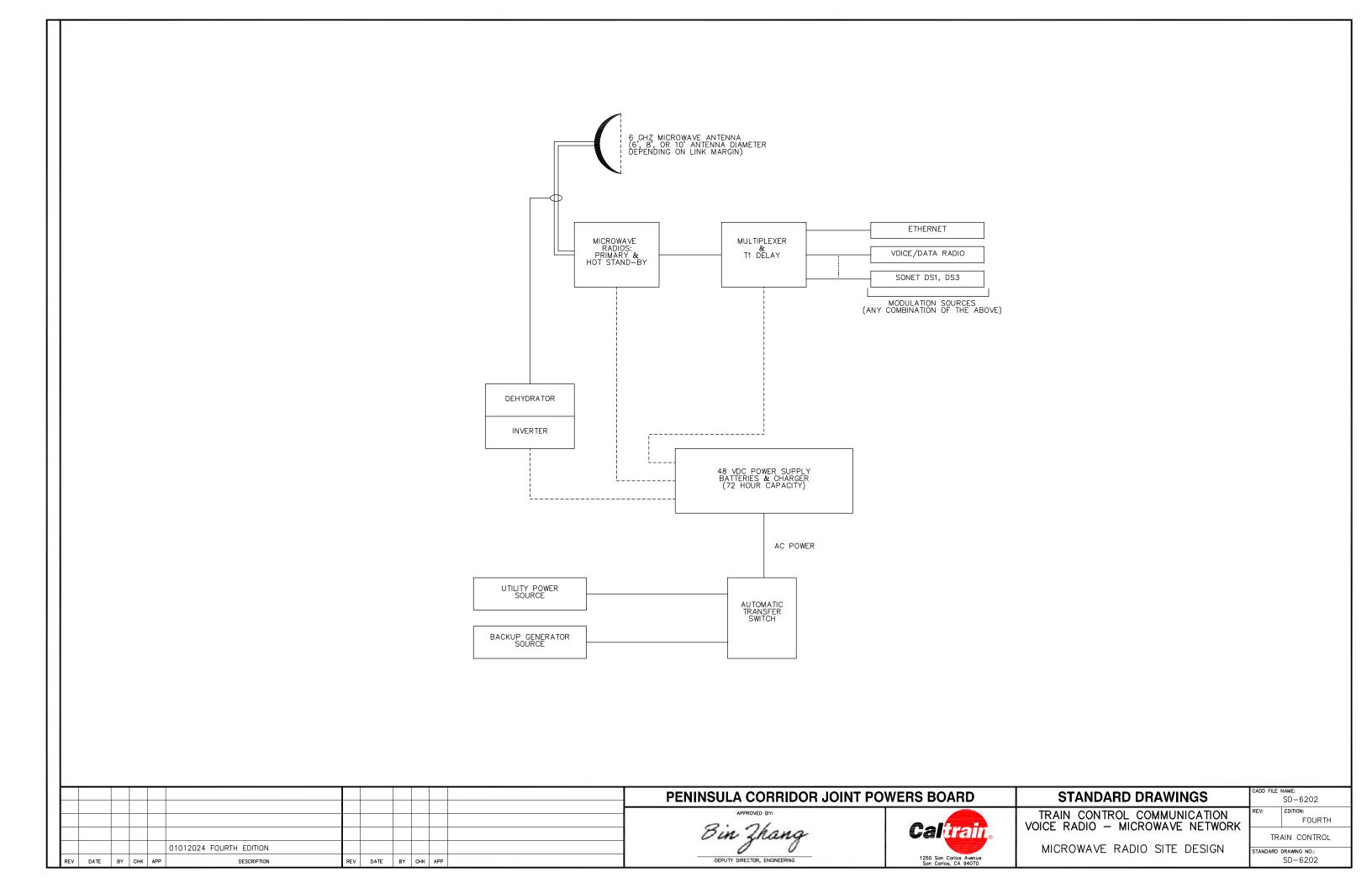


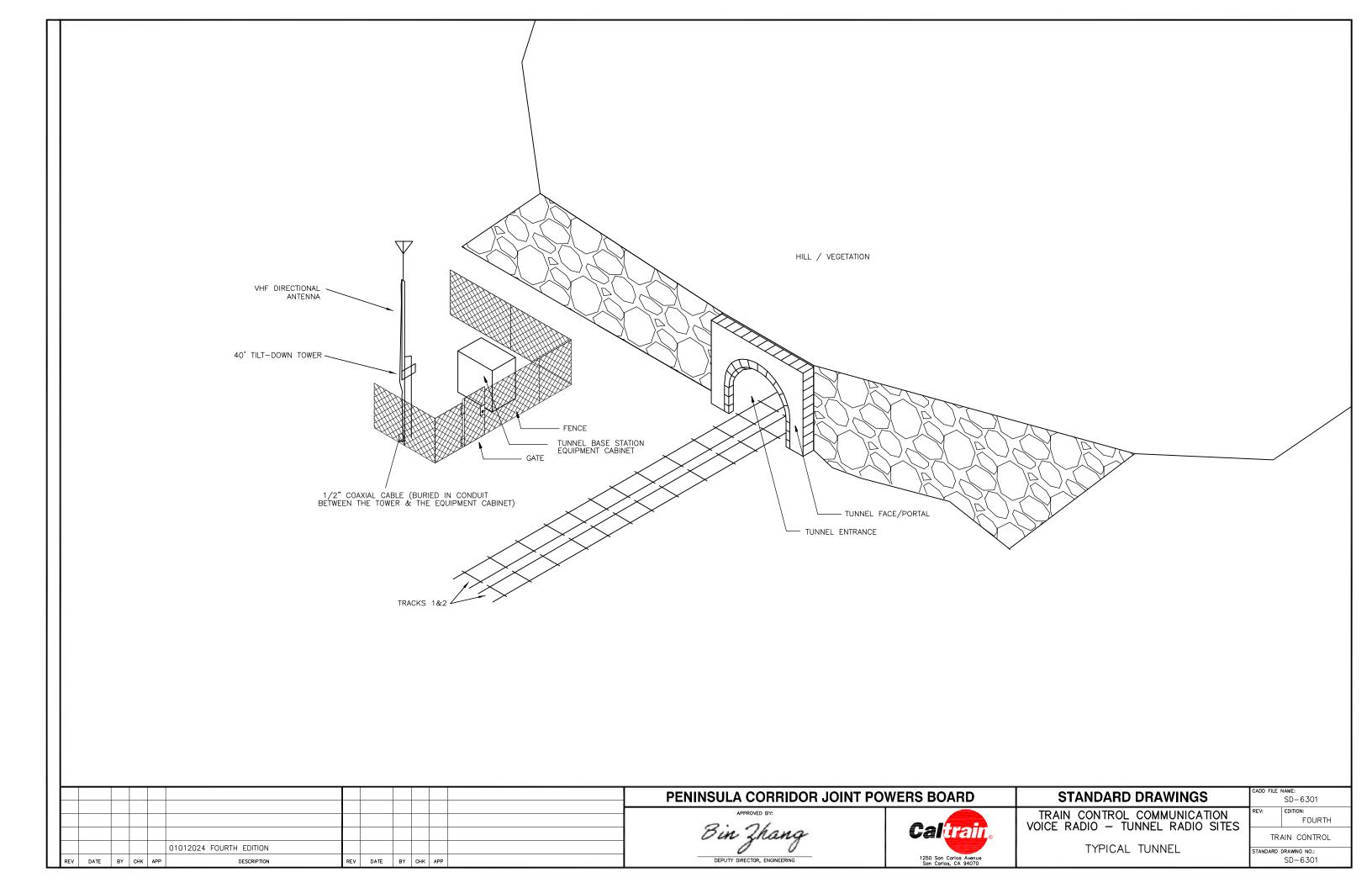




								PENINSULA CORRIDOR JOINT PO	WERS BOARD	STANDARD DRAWINGS	cadd file name: SD-6153
								Bin Zhang		TRAIN CONTROL COMMUNICATION VOICE RADIO — MAINTENANCE CHANNEL	
REV	DATE	BY CHK	01012024 FOURTH EDITION APP DESCRIPTION	REV	DATE	BY CHK	APP	DEPUTY DIRECTOR, ENGINEERING	1250 San Carlos Avenue San Carlos, CA 94070	MAINTENANCE CHANNEL BASE STATION TYPICAL OF MOUNTAIN TOPS	STANDARD DRAWING NO.: SD-6153









1. A SINGLE 7/8" RADIATING CABLE IS INSTALLED ON THE ROOF OF EACH TUNNEL

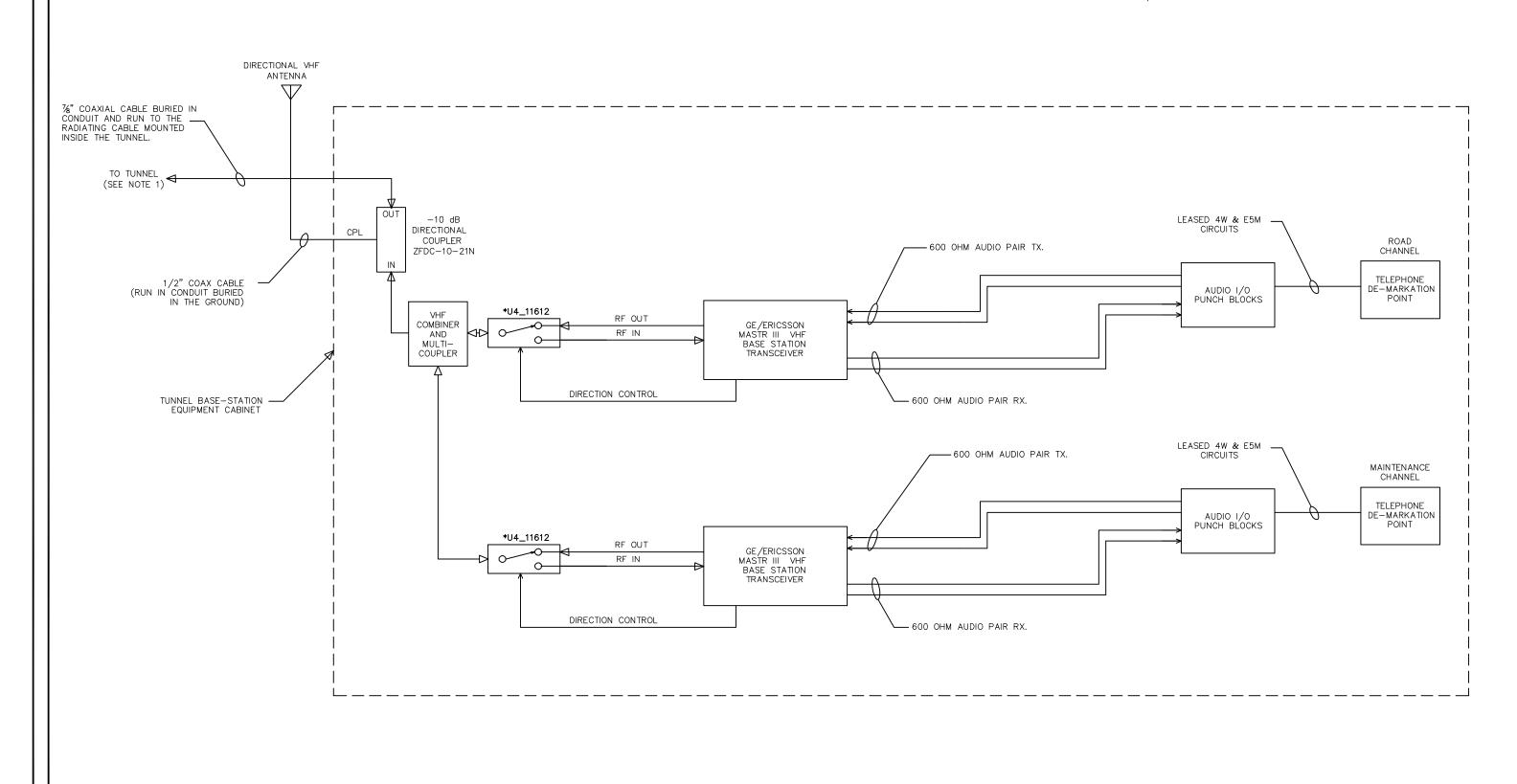
SD-6302

TRAIN CONTROL

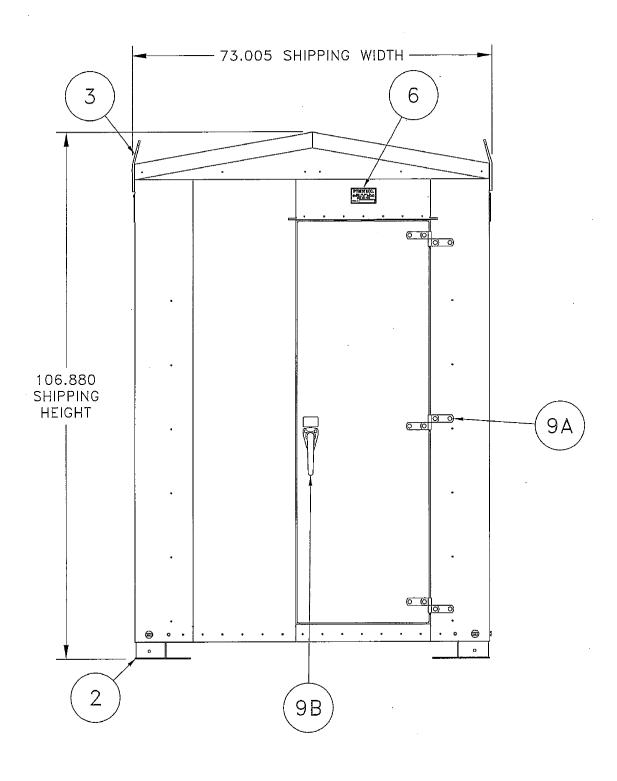
SD-6302

STANDARD DRAWING NO.:

FOURTH



										PENINSULA CORRIDOR JOINT PO	WERS BOARD	STANDARD DRAWINGS
REV	DATE	ву сн	K APF	01012024 FOURTH EDITION DESCRIPTION	REV	/ DATE	BY	CHK AP	90	APPROVED BY: Bin Zhang DEPUTY DIRECTOR, ENGINEERING	Calcrain 1250 San Carlos Avenue San Carlos, CA 94070	TRAIN CONTROL COMMUNICATION VOICE RADIO - TUNNEL RADIO SITES TUNNEL VOICE RADIO BASE STATIONS CONFIGURATION



GENERAL NOTES OF MATERIALS AND PROCEDURES

(SEE REFERENCE ON SHEET 1 THROUGH 3)

EXTERIOR FEATURES (1 THROUGH 8):

- 1. HOUSE CONSTRUCTED OF ALUMINUM WITH PVC PEEL COAT TO PROTECT EXTERIOR SURFACE DURING MANUFACTURING (PEEL COAT REMOVED PRIOR TO SHIPPING TO CUSTOMER) FOR WALLS DOORS AND ROOF. FLOOR CONSTRUCTED OF MILL FINISH ALUMINUM
- ENCLOSURE EQUIPPED WITH INNER WALL TYPE FOUNDATIONS CONSTRUCTED OF GALVANIZED STEEL MINIMUM 60" LONG WITH 12" SQUARE FOOTING PLATE AND ADJUSTABLE FROM 36" TO 52" IN 1" INCREMENTS
- 3. ENCLOSURE EQUIPPED WITH LIFTING LUGS LOCATED AT THE FOUR REINFORCED ROOF CORNERS
- 4. INTAKE AND EXHAUST VENTS LOCATED AT GABLE ENDS OF ROOF WITH REUSABLE FILTERS
- 5. ALL EXTERIOR SEAMS SEALED WITH GRAY SILICONE CAULK
- 6. MANUFACTURER'S NAME PLATE WITH SERIAL NUMBER LOCATED ABOVE THE FRONT DOOR
- 7. AERIAL CABLE ENTRIES PROVIDED AS SHOWN
- 8. FOUR GROUNDING PIGTAILS LOCATED BELOW THE FLOOR

DOORS (9):

- 9. DOORS TO INCLUDE THE FOLLOWING:
- A. VANDAL RESISTANT BOLT ON STAINLESS STEEL HINGES WITH GREASE FILLING
- B. HEAVY DUTY THREE PAINT LOCKING SYSTEM WITH EXTERIOR HANDLE THAT WILL ACCEPT A STANDARD RAILROAD PADLOCK
- C. PROP ROD TO HOLD DOOR OPEN AT 90 AND 160 DEGREES
- D. EPDM EXTRUDED RUBBER GASKET PROVIDING A WEATHER TIGHT SEAL

INTERIOR FEATURES:

- 10. WALLS INSULATED WITH 1" RIGID INSULATION AND 2" IN THE DOORS.

 CEILING INSULATED WITH 2" .030 CLASS A WHITE PLASTIC LAMINATED INSULATION
- 11. WALLS COVERED WITH 34" PLYWOOD WITH 0.030" CLASS A WHITE PLASTIC LAMINATE BETWEEN THE KEYWAYS
- 12. FLOOR COVERED WITH ½" RIGID INSULATION, $\%_6$ " OSB PLYWOOD AND %" RUBBER MATTING
- 13. WIRE CHASE IS A PURCHASED OPEN LADDER STYLE MODULAR ALUMINUM ASSEMBLY
- 14. TWO 24-1/4" X 84-1/8" ALUMINUM RACKS PROVIDED WITH #12-24 TAPPED HOLES ON E.I.A. UNIVERSAL SPACING
- 15. SIX 4-5/8" DIAMETER CABLE ENTRY HOLES PROVIDED WITH SHIPPING COVER PLATES

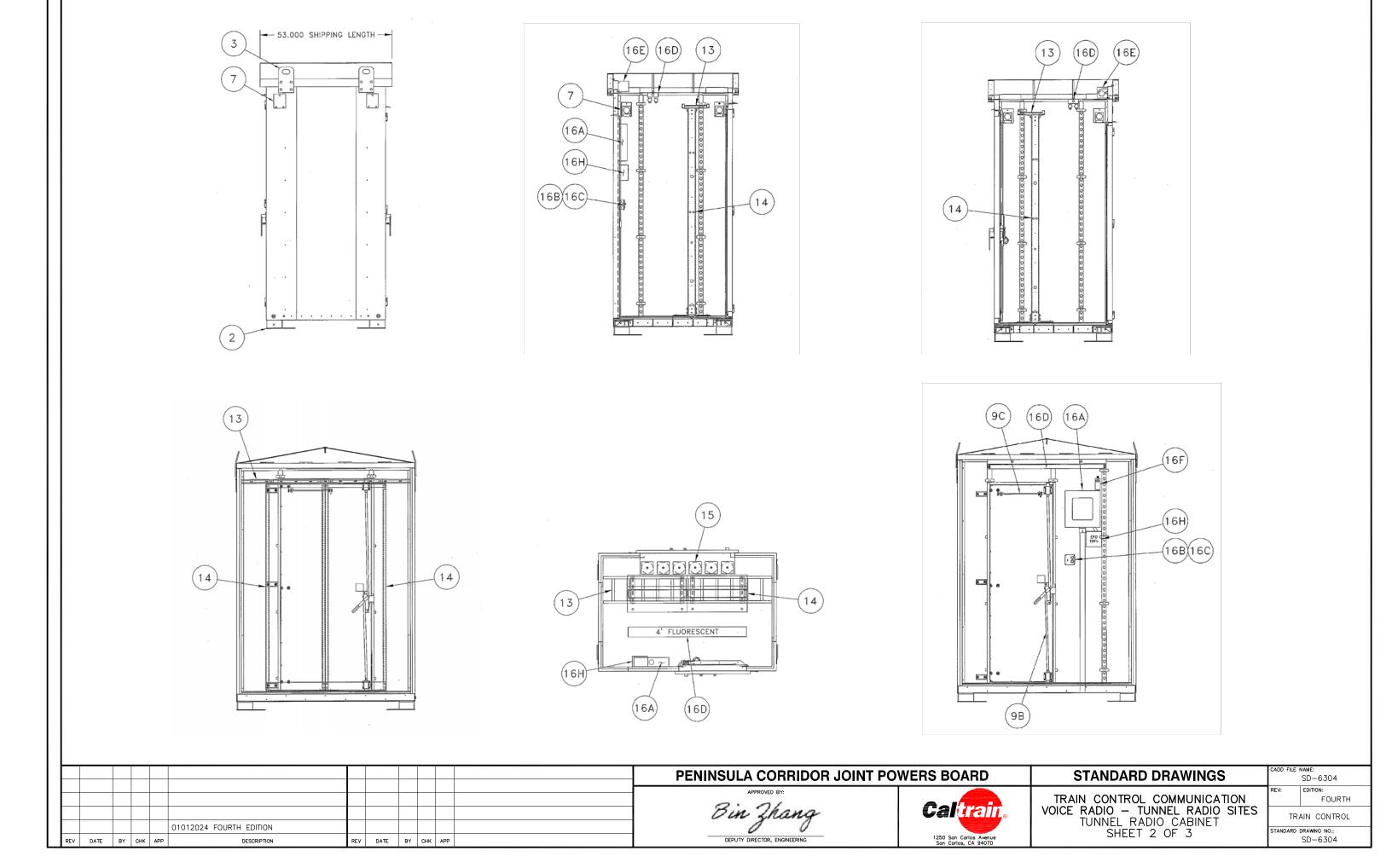
ELECTRICAL:

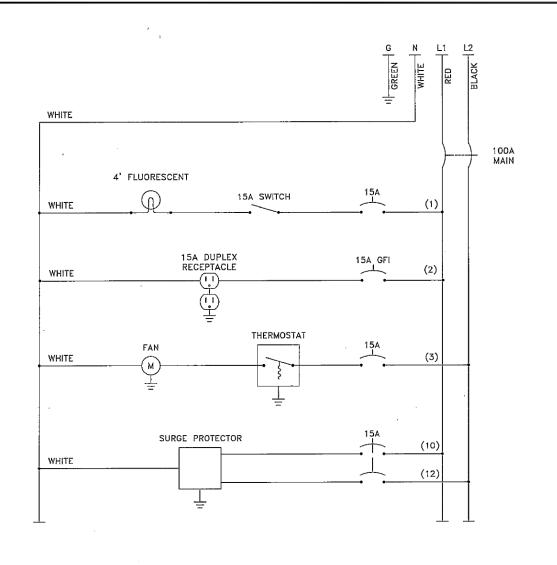
- 16. ALL SUPPLIED ELECTRICAL COMPONENTS TO BE UL LISTED. ALL POWER CIRCUITS TO BE RUN IN CONDUIT AND SECURED TO HOUSE STRUCTURE. ELECTRICAL SYSTEM TO INCLUDE THE FOLLOWING ITEMS INSTALLED BY THE MANUFACTURER:
- A. (1 EACH) 100A 12 SPACE MAIN CIRCUIT BREAKER LOAD CENTER (SQUARE D #Q0112M100)
- B. (1 EACH) 15A LIGHT SWITCH
- C. (1 EACH) 15A DUPLEX RECEPTACLE
- D. (1 EACH) 4" 2 BULB FLOURESCENT LIGHT FIXTURE (T-8) WITH LAMPS, SHATTER GUARDS AND TUBE LOCKS
- E. (1 EACH) 110V VENTILATION FAN 292 CFM
- F. (1 EACH) 110V 30' TO 110' RANGE THERMOSTAT
- G. (6' LONG) LENGTH OF 2" EMT CONDUIT FOR POWER ENTRY
- H. (1 EACH) 120 / 240 VOLT SURGE PROTECTOR (ERICO # EPD120/ 240TDFL)

SHIP LOOSE ITEMS:

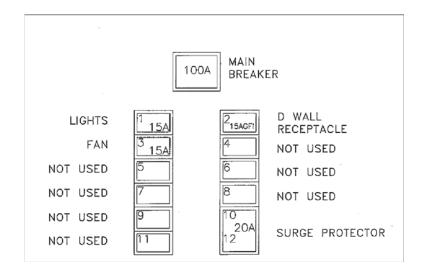
- 17. THE FOLLOWING ITEMS SHIP LOOSE WITH HOUSE:
- A. (1 EACH) 3 FOOT LENGTH OF 2" LIQUID TIGHT CONDUIT WITH 2" EMT COMPRESSION CONNECTOR, 2" STRAIGHT CONNECTOR, 2" NPT COUPLING AND PLASTIC CAP
- B. (6 EACH) 24" LENGTHS OF 4" SCH 40 PVC CONDUIT WITH COUPLINGS, LOCK RINGS AND PLASTIC BUSHINGS

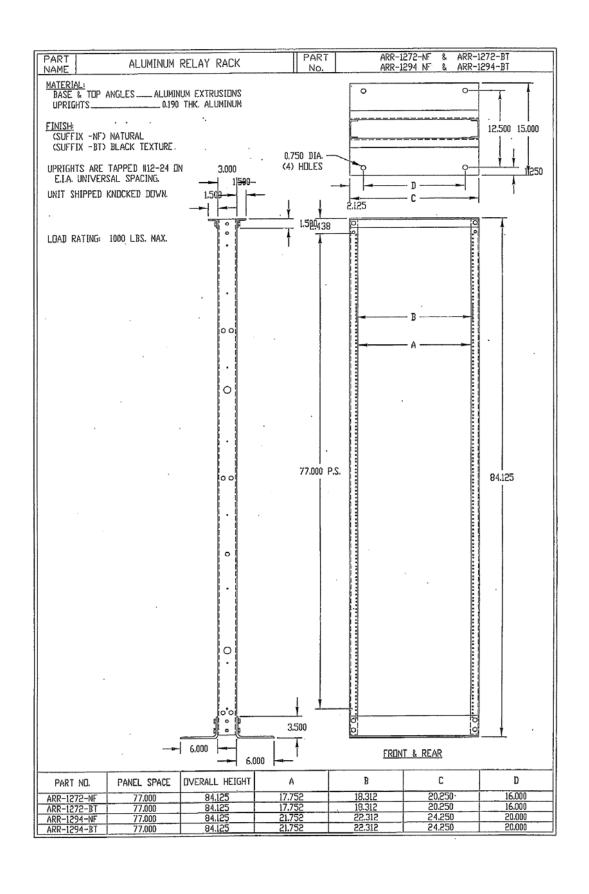
STANDARD DRAWINGS PENINSULA CORRIDOR JOINT POWERS BOARD SD-6303 TRAIN CONTROL COMMUNICATION FOURTH Caligani VOICE RADIO - TUNNEL RADIO SITES TRAIN CONTROL TUNNEL RADIO CABINET 01012024 FOURTH EDITION SHEET 1 OF 3 TANDARD DRAWING NO. 1250 San Carlos Avenue San Carlos, CA 94070 DEPUTY DIRECTOR, ENGINEERING DATE BY CHK APP REV DATE BY CHK APP SD - 6303





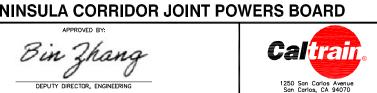
ELECTRICAL SCHEMATIC





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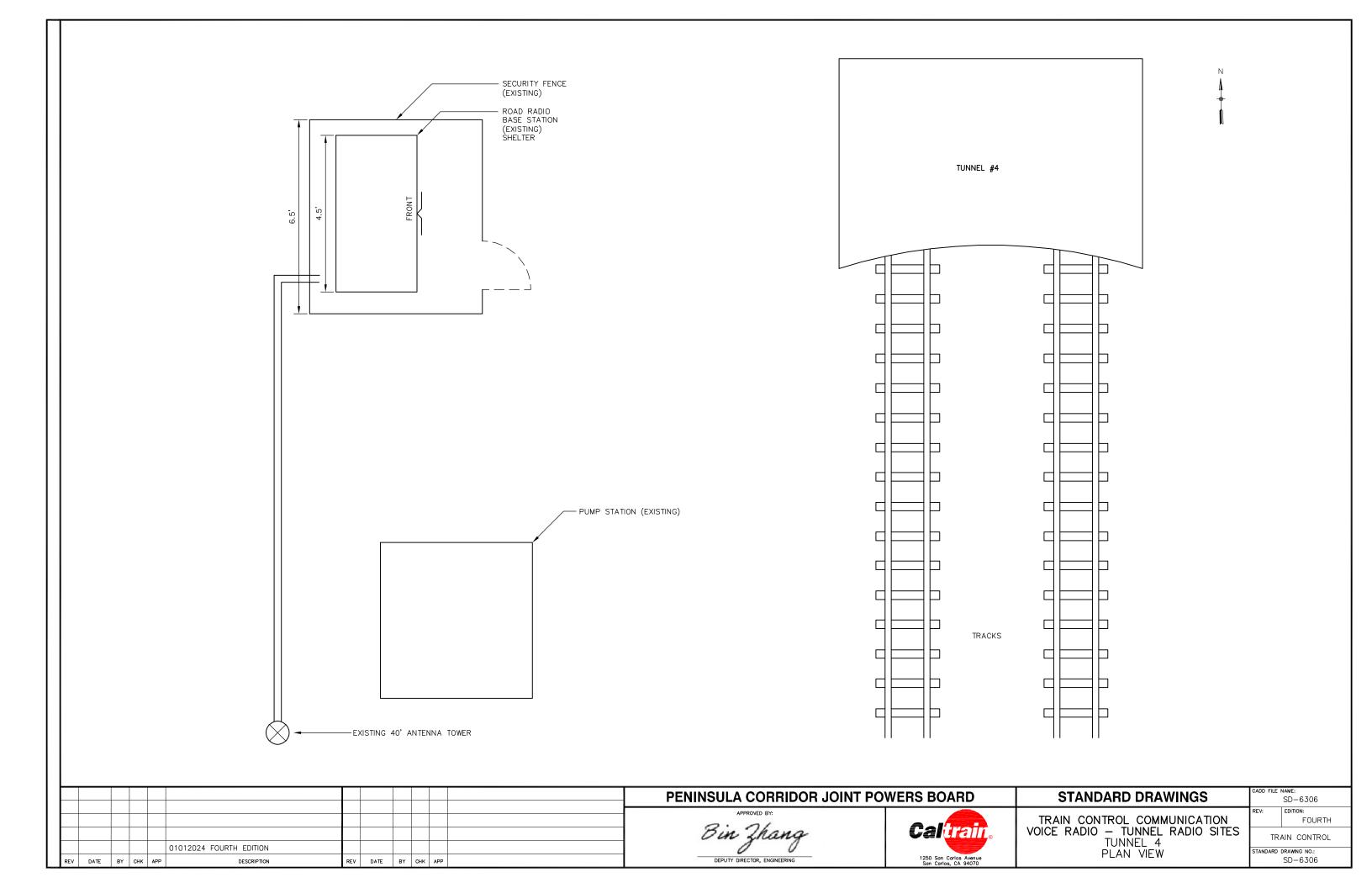


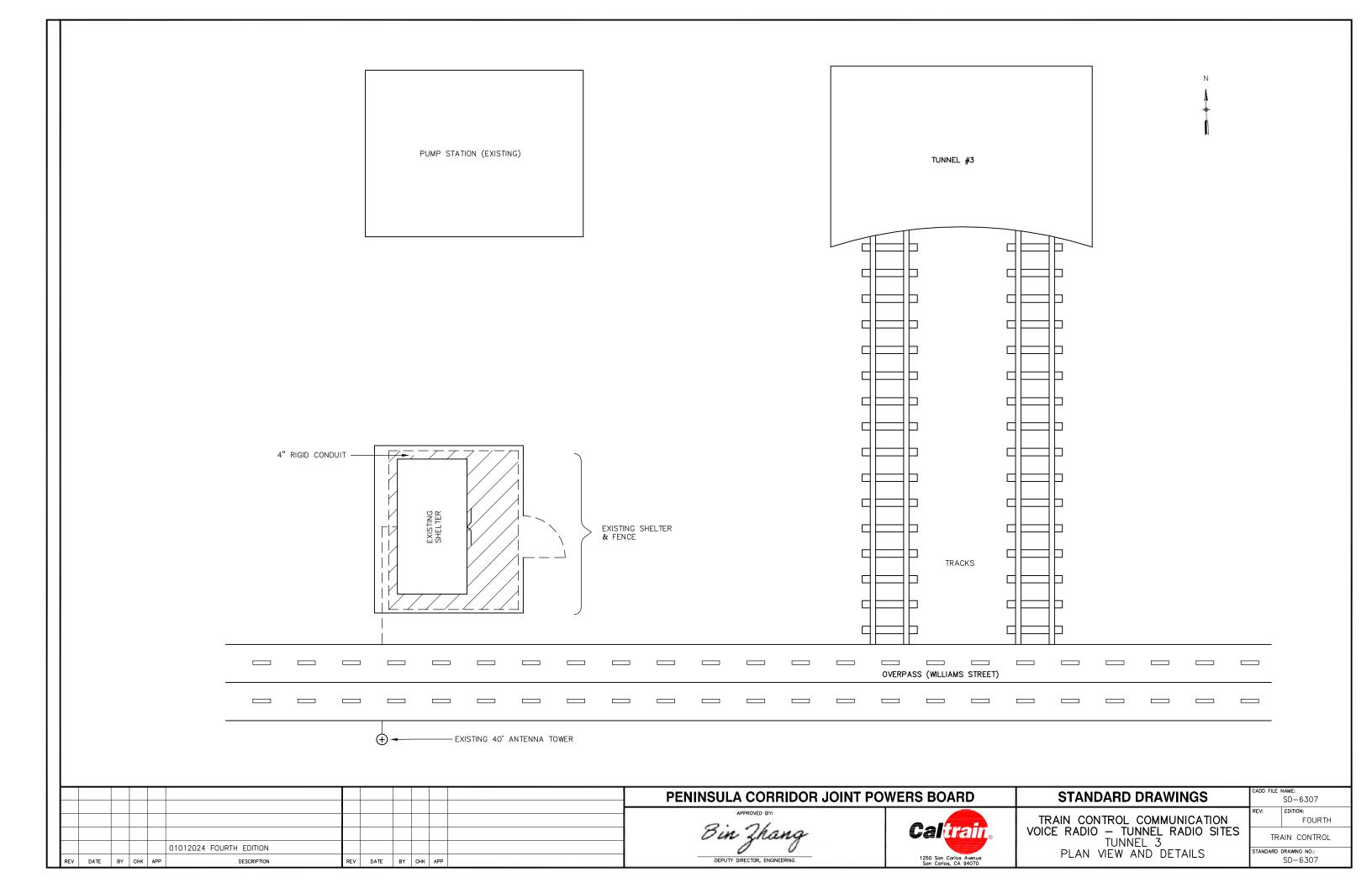
TRAIN CONTROL COMMUNICATION
VOICE RADIO - TUNNEL RADIO SITES
TUNNEL RADIO CABINET SHEET 3 OF 3

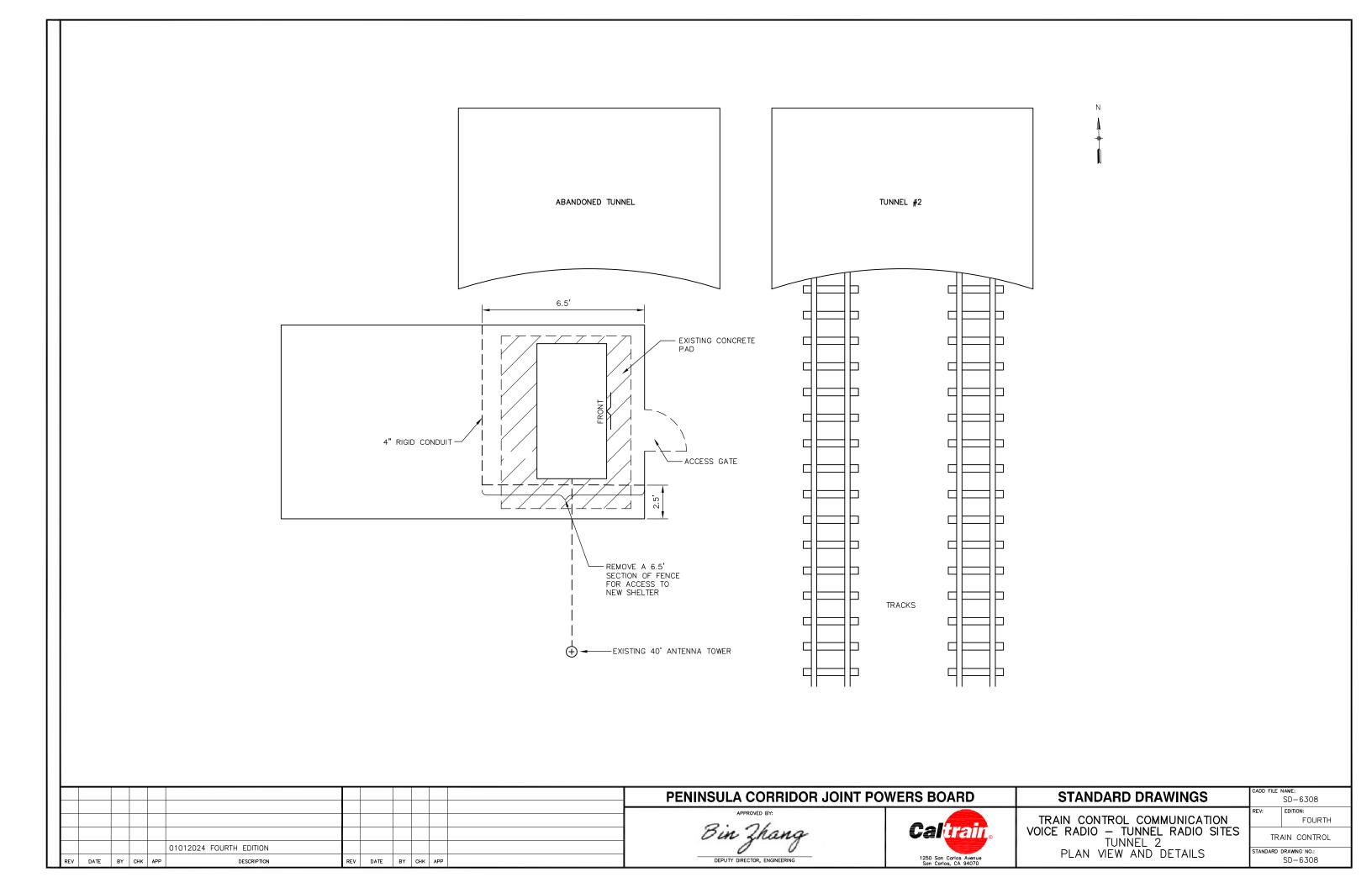
STANDARD DRAWINGS

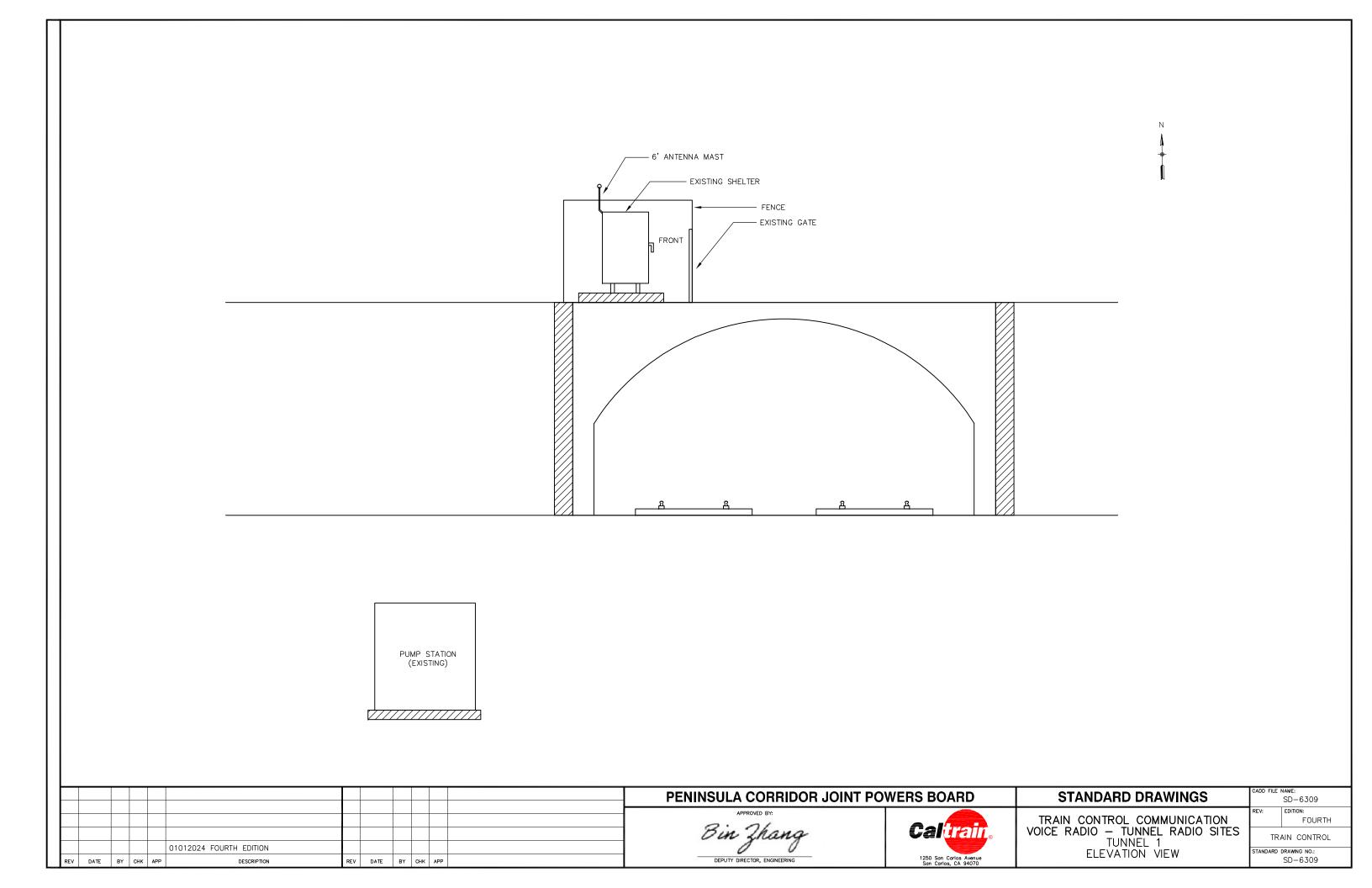
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			FOURTH
	TR	AIN	CONTROL
	ADD	DRAW	NO NO.

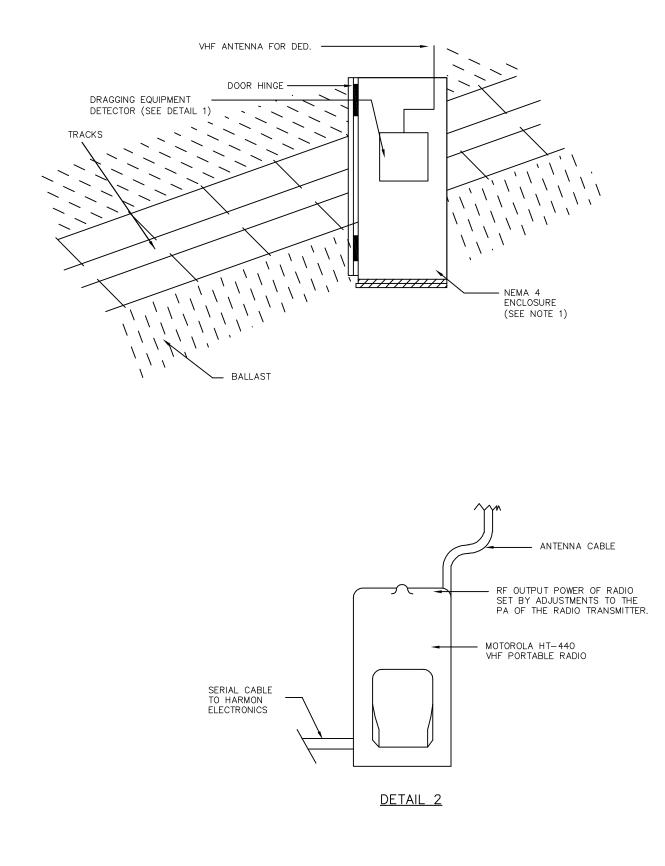
SD-6305











VHF ANTENNA

SEE DETAIL 2

DRAGGING EQUIPMENT

SYSTEM)

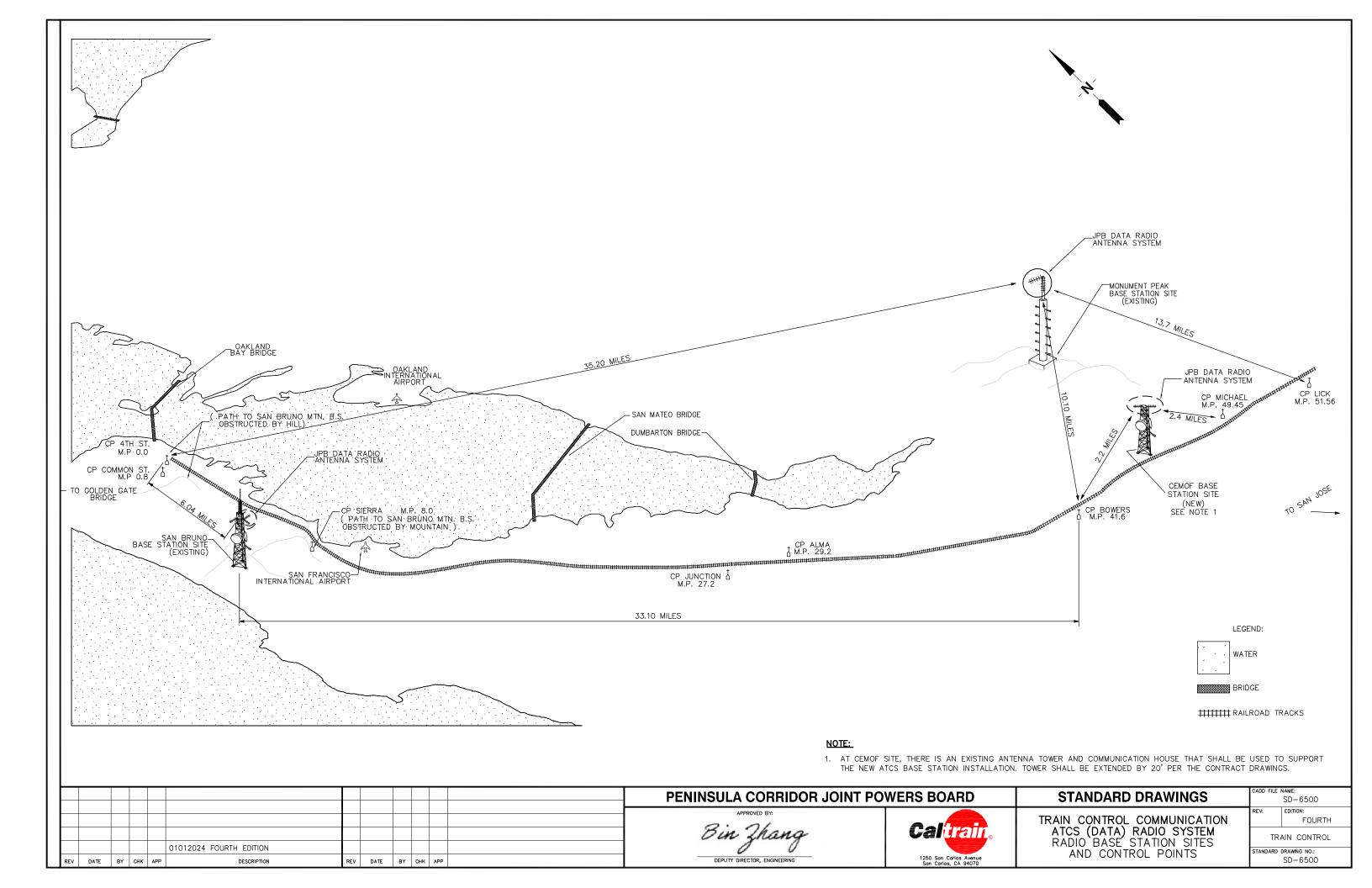
(HARMON ELECTRONICS WCO-46 TALKER

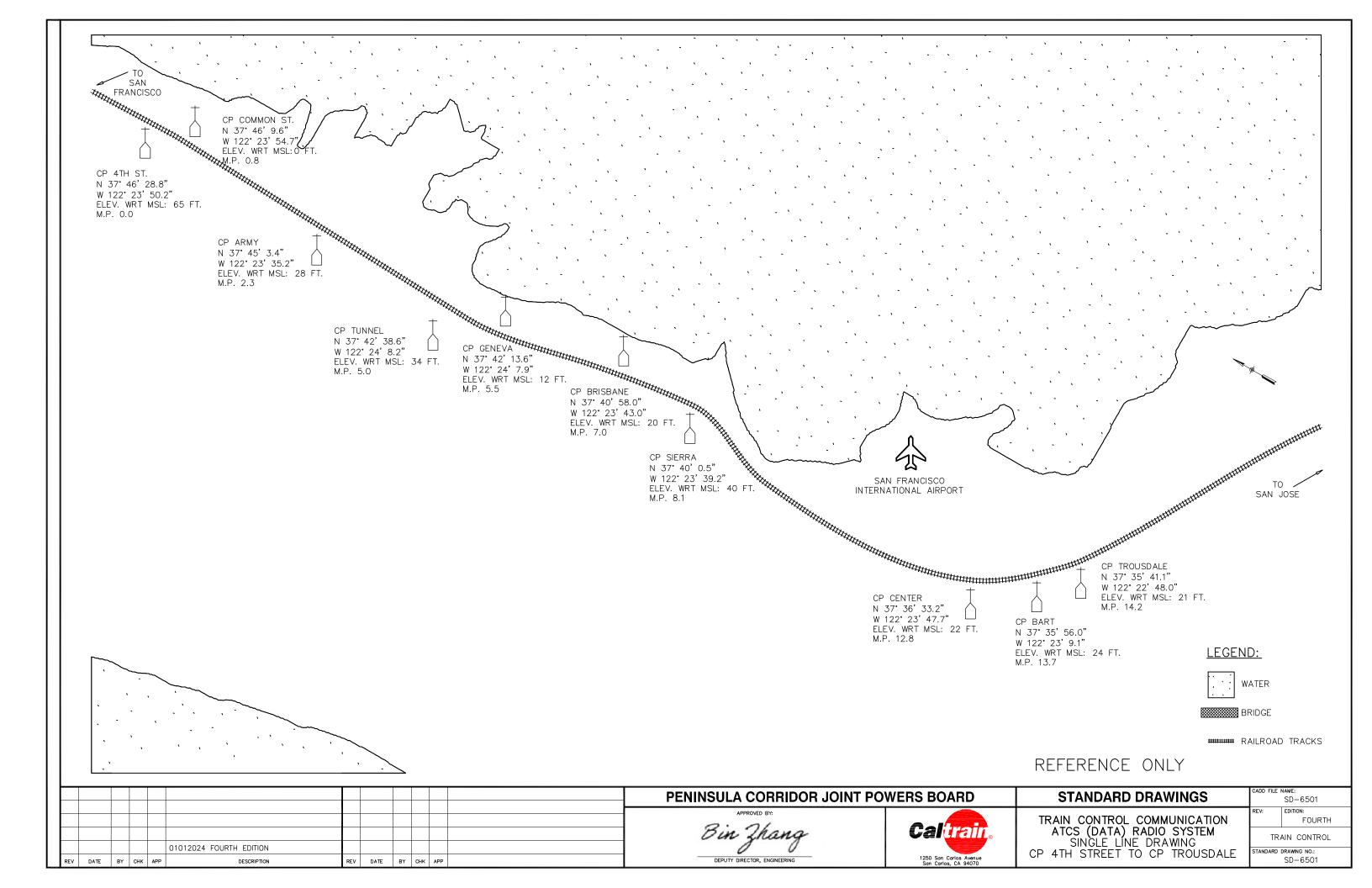
DETAIL 1

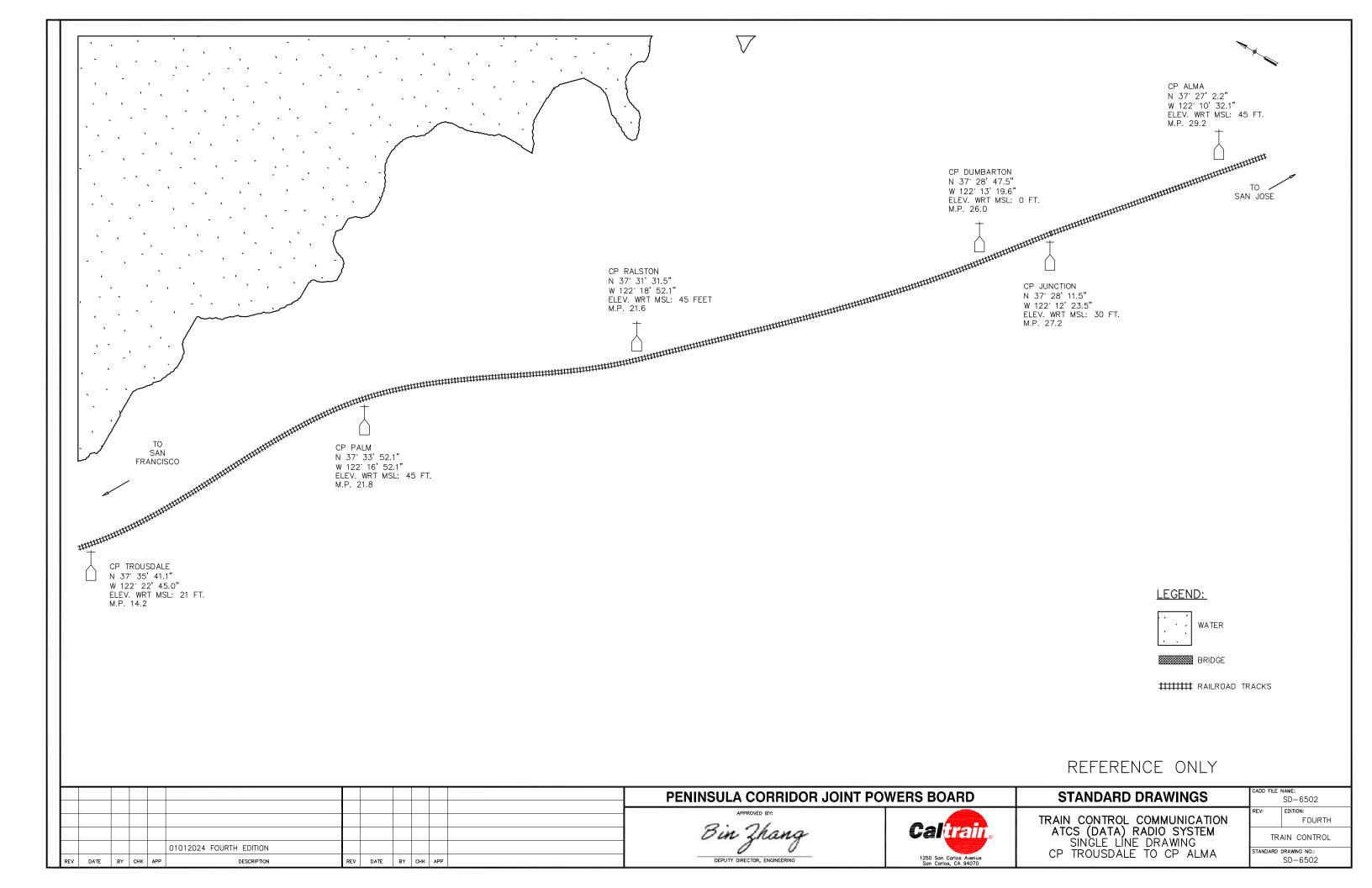
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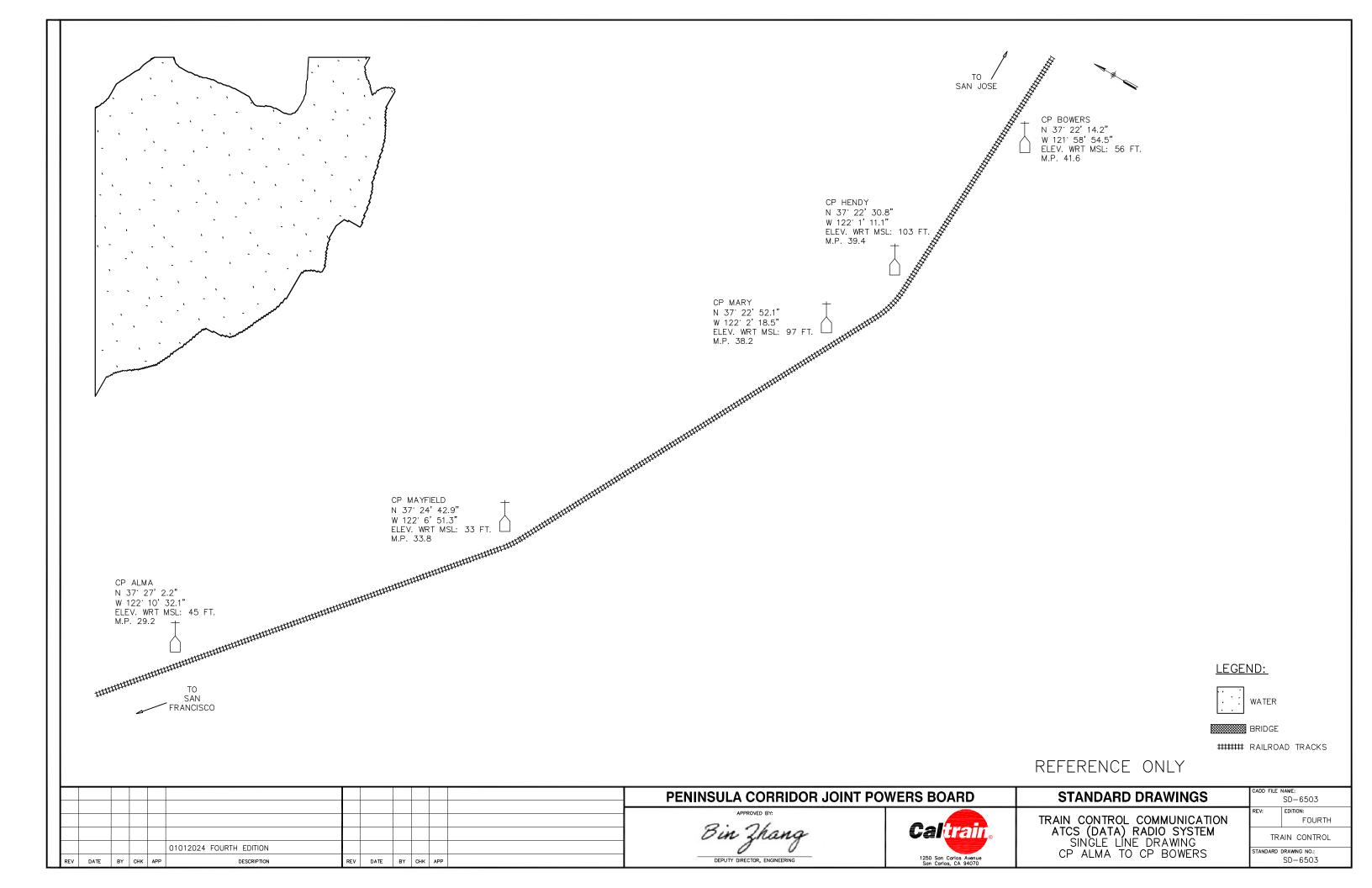
- THE TRANSMIT POWER OF EACH DED SHALL BE REDUCED TO AN ERP (DEPENDENT ON THE TERRAIN IN THE IMMEDIATE VICINITY OF THE DED) THAT WILL RESTRICT RADIO COVERAGE TO PROVIDE A RECEIVE INTENSITY OF -109 dbm WITHIN A +/- 3 MILE REGION OF TRACK.
- 2. DED SHALL ALSO BE RECEIVED BY THE NEAREST BASE STATION SITE, SO IMPROVEMENT ARE SIMULTANEOUSLY REQUIRED TO THE BASE STATION RF FRONT END

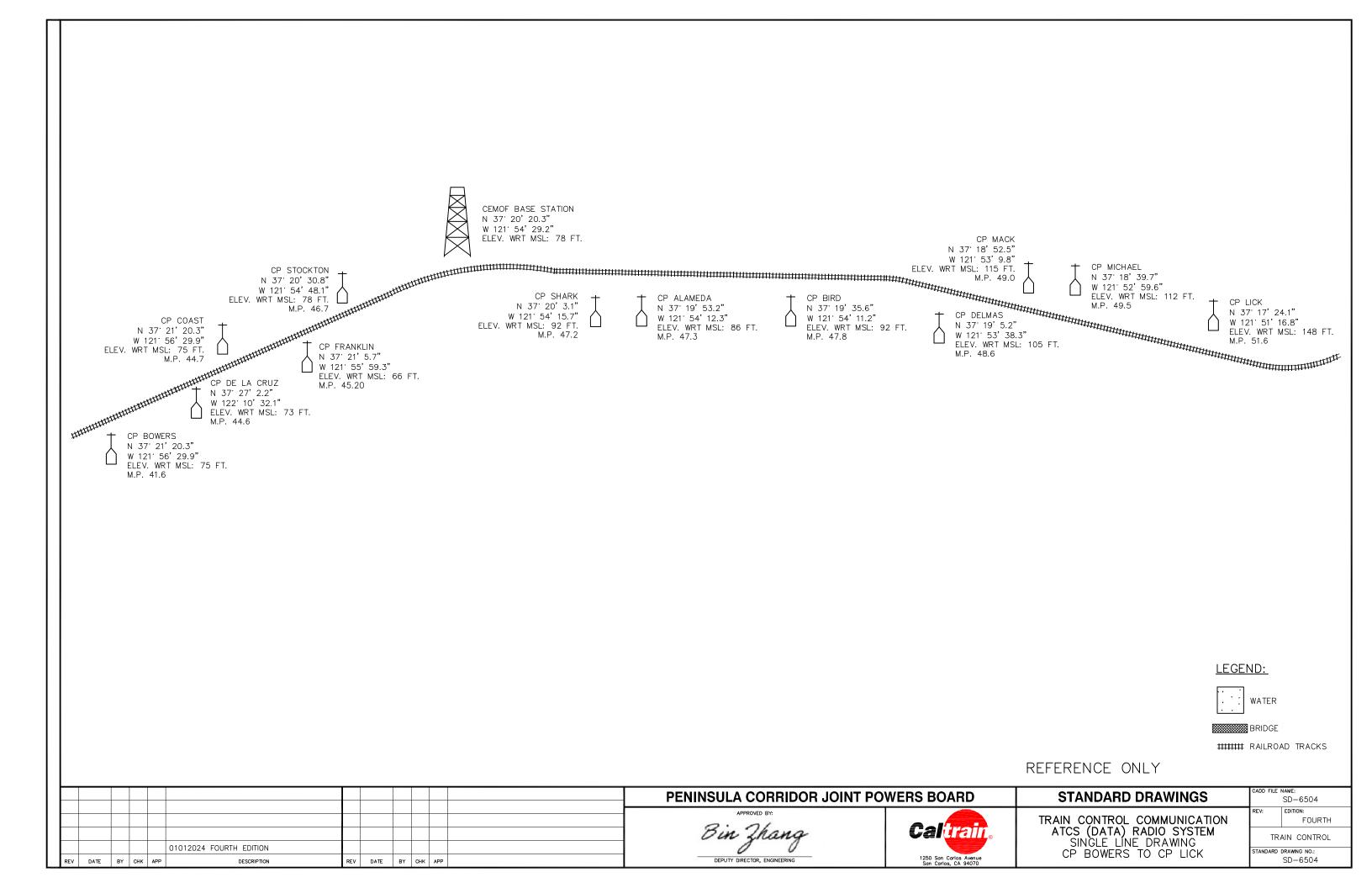
PENINSULA CORRIDOR JOINT POWERS BOARD STANDARD DRAWINGS SD-6351 TRAIN CONTROL COMMUNICATION VOICE RADIO — DED SITES FOURTH Calirain TRAIN CONTROL TYPICAL DRAGGING 01012024 FOURTH EDITION STANDARD DRAWING NO.: EQUIPMENT DETECTOR 1250 San Carlos Avenue San Carlos, CA 94070 DEPUTY DIRECTOR, ENGINEERING SD-6351 REV DATE BY CHK APP REV DATE BY CHK APP

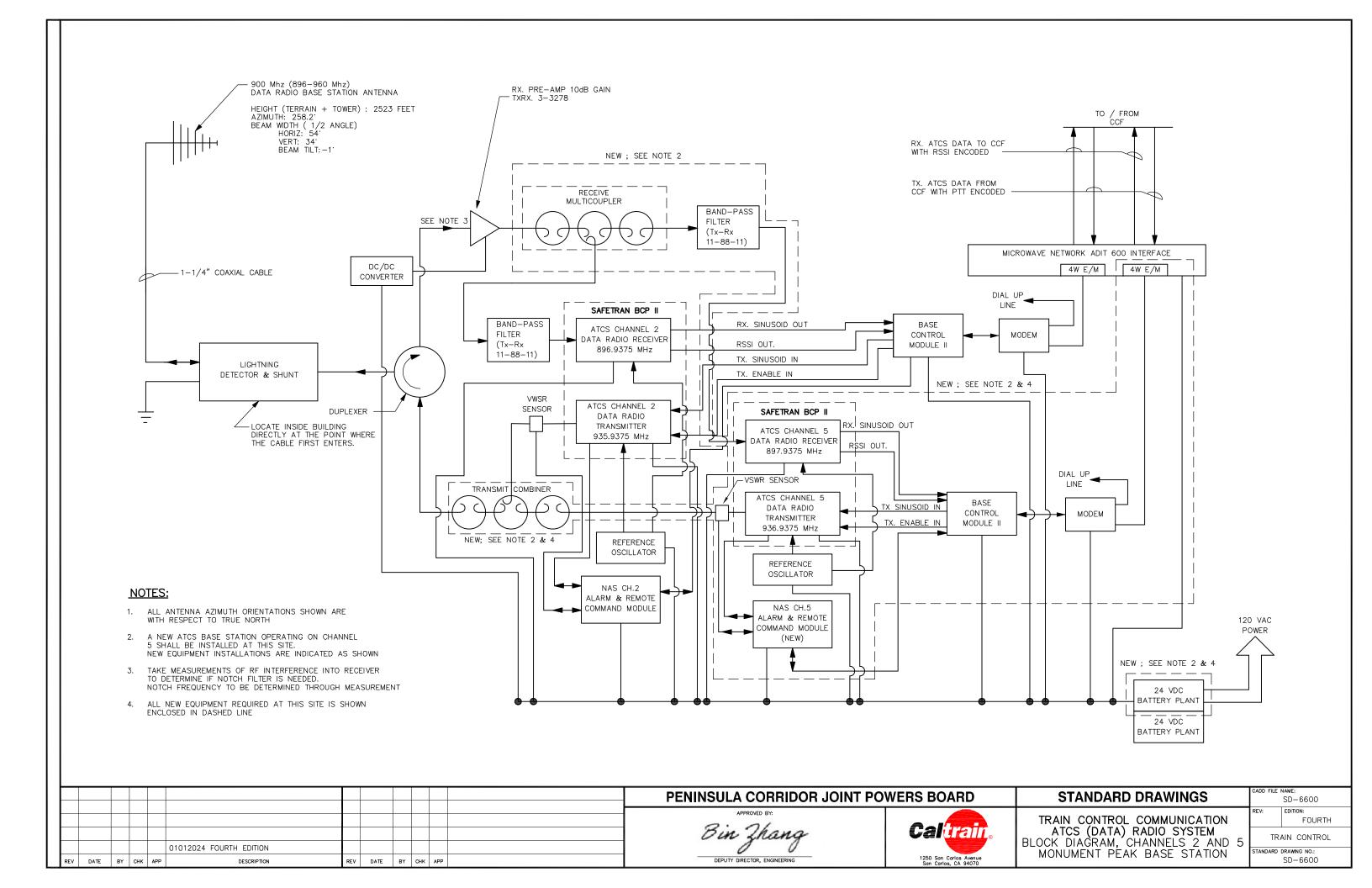




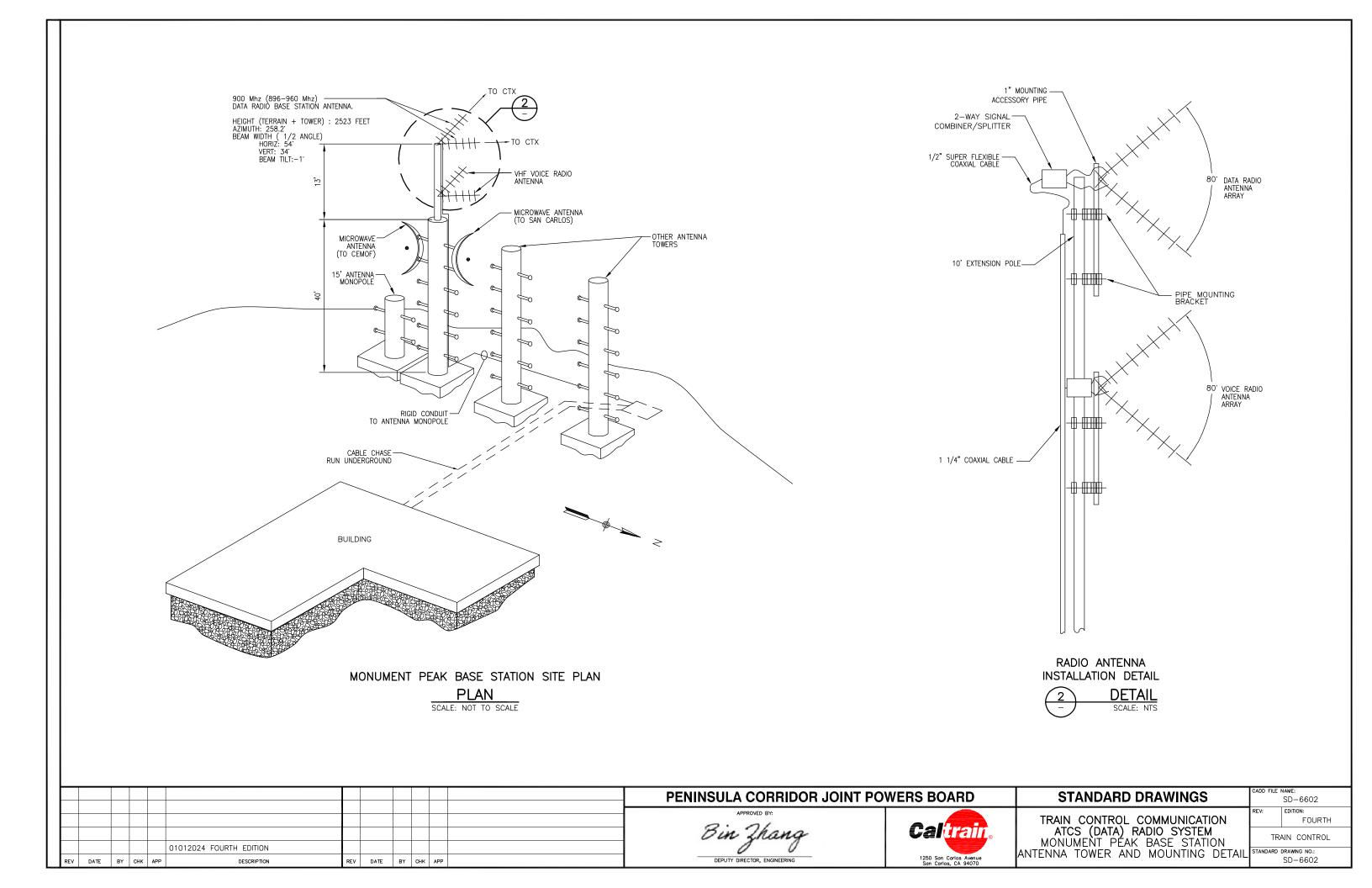


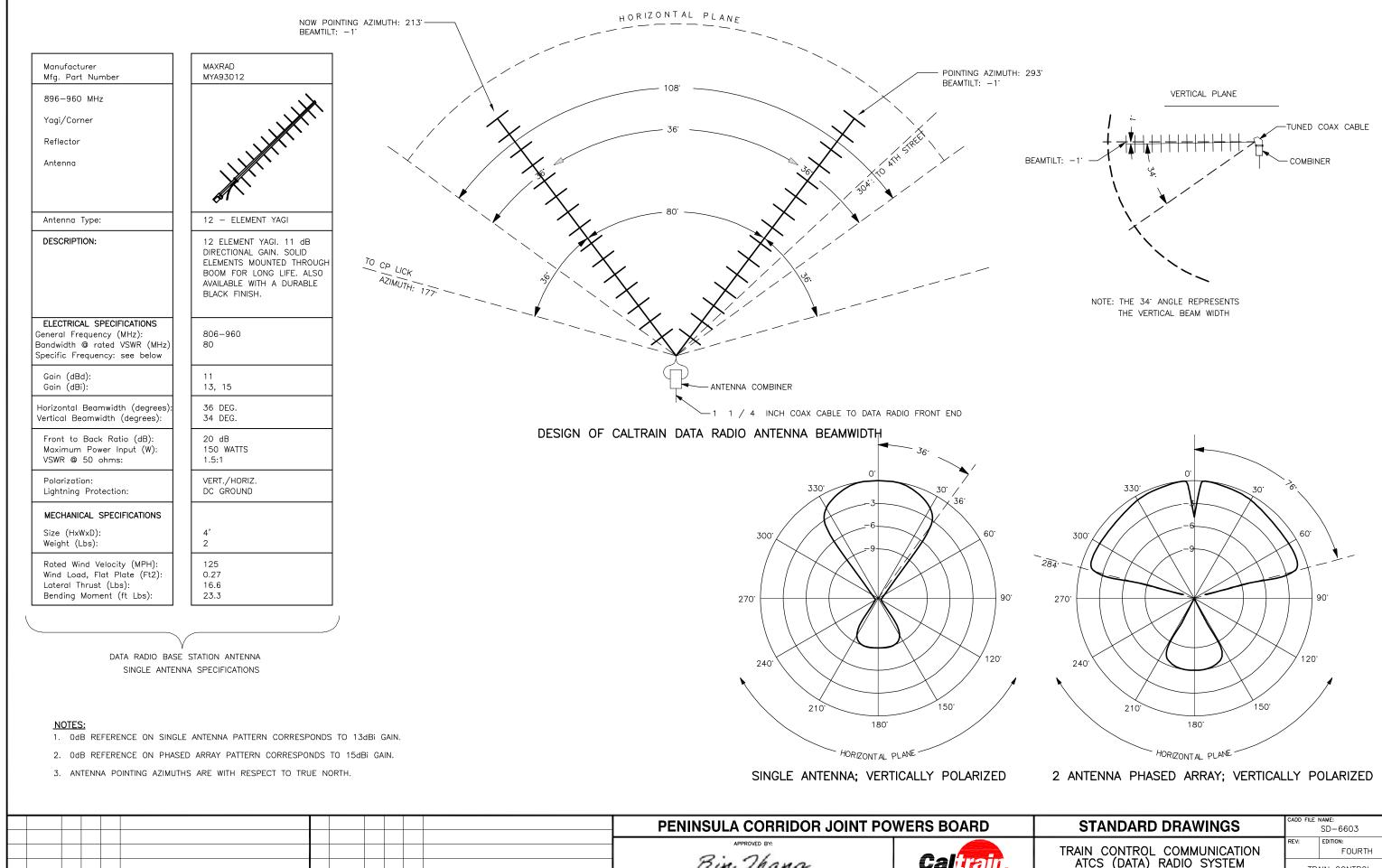




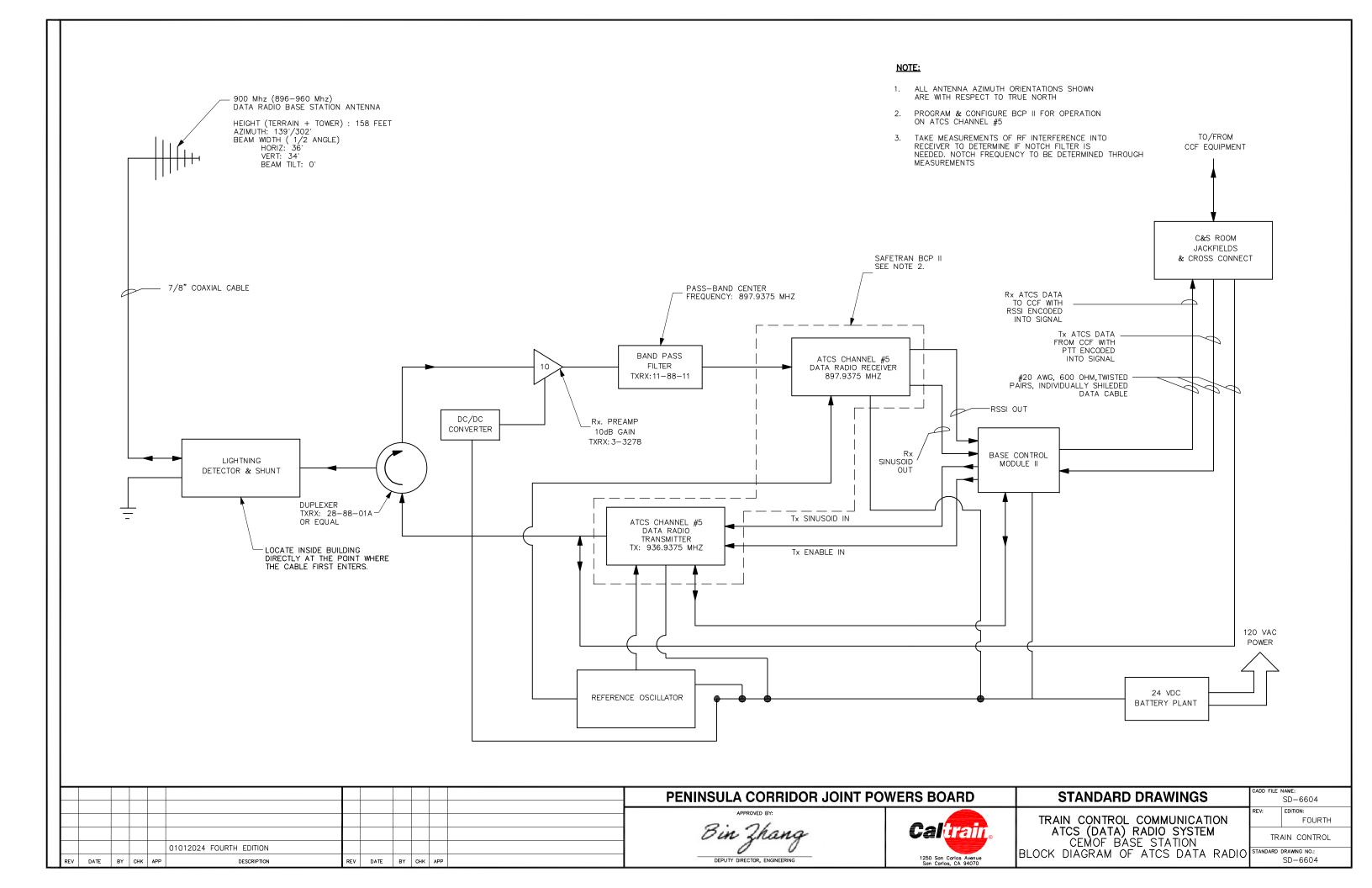


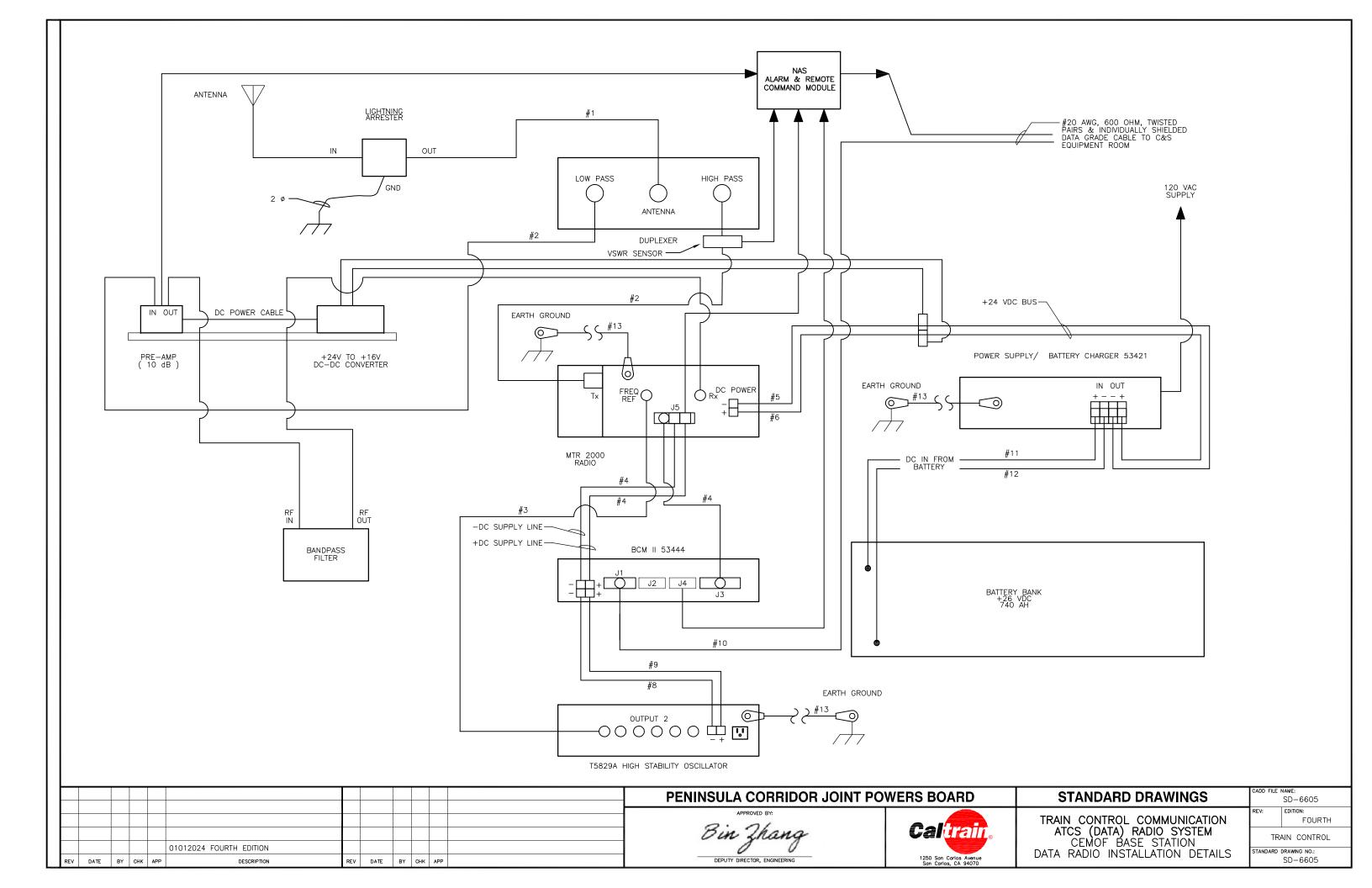
FRONT AND REAR ELEVATIONS SHOW RACK WITH DOORS REMOVED 26" 24" REED RELAY DOOR SWITCH TEMPERATURE SENSOR FRONT OF EQUIPMENT RACK -DUPLEXER -ALARM RELAY RACK LOSS OF AC FAIL--DUPLEXER -LOSS OF DC FAIL DUPLEXER -+24V TO +16V DC-DC CONVERTER -PRE-AMP (DC POWERED) -PRE-AMP (DC POWERD) PRE-AMP (DC POWERED) +24V TO +16V-DC-DC CONVERTER -MTR 2000 RADIO MTR 2000 RADIO MTR 2000 RADIO -BCM II 53444 BCM II 53444 BCM II 53444 -2" DIA. HOLE TYP 4 TOTAL ¼" COAX-T5829A HIGH STABILITY OSCILLATOR T5829A HIGH STABILITY OSCILLATOR -T5829A HIGH STABILITY OSCILLATOR 7'-0" CAVITY-FILTER BANDPASS-FILTER -CAVITY FILTER BYPASS-FILTER -CAVITY FILTER RF/VSWR-ALARM MODULE RF/VSWR-ALARM MODULE TELECOM-CONDUIT -AC POWER CONDUIT -POWER SUPPLY/BATTERY CHARGER 53432 -ALARM PUNCH BLOCK -ALARM PUNCH BLOCK POWER SUPPLY/ BATTERY CHARGER 53421 POWER SUPPLY/ BATTERY CHARGER 53421 FRONT OF EQUIPMENT RACK **EQUIPMENT RACK EQUIPMENT RACK EQUIPMENT RACK EQUIPMENT RACK** SIDE ELEVATION VIEW FRONT ELEVATION VIEW REAR ELEVATION VIEW TOP ELEVATION VIEW NOT TO SCALE NOT TO SCALE NOT TO SCALE NOT TO SCALE PENINSULA CORRIDOR JOINT POWERS BOARD STANDARD DRAWINGS SD-6601 TRAIN CONTROL COMMUNICATION ATCS (DATA) RADIO SYSTEM MONUMENT PEAK BASE STATION FOURTH Calirain TRAIN CONTROL 01012024 FOURTH EDITION STANDARD DRAWING NO. EQUIPMENT RACK 1250 San Carlos Avenue San Carlos, CA 94070 SD-6601 DEPUTY DIRECTOR, ENGINEERING REV DATE BY CHK APP REV DATE BY CHK APP





ATCS (DATA) RADIO SYSTEM MONUMENT PEAK BASE STATION TRAIN CONTROL 01012024 FOURTH EDITION ATCS ANTENNA ARRAY DETAILS TANDARD DRAWING NO.: 1250 San Carlos Avenue San Carlos, CA 94070 SD-6603 DEPUTY DIRECTOR, ENGINEERING DATE BY CHK APP REV DATE BY CHK APP





ACCORDING TO ANSI/EIA-222-F 1996

ACCORDING TO ANSI/EIA-222-1 1990									
90 mph/78 + 1/2" RADIAL ICE W/ (3 second gust) PER OBC AND IBC									
	CaAa	FLAT PLATE AREA	WEIGHT	ELEVATION					
NO ICE	40.0 SQ.FT	22.22 SQ.FT	1200 LBS	60.0 FT					
1/2 ICE	49.5 SQ.FT	27.50 SQ.FT	1600 LBS	60.0 FT					
NO ICE	71.5 SQ.FT	39.72 SQ.FT	900 LBS	60 FT TO 30 FT					
1/2 ICE	87.0 SQ.FT	48.33 SQ.FT	1700 LBS	60 FT TO 30 FT					
	(1) - 7/8 COAX ELEVATION 0 FT TO 60 FT								
	CLIMBING LADDER ELEVATION 0 FT TO 40 FT								

70 mph/51 mph + 1/2" RADIAL ICE (FASTEST MPH) PER EIA-222-F									
	CaAa	FLAT PLATE AREA	WEIGHT	ELEVATION					
NO ICE	42.0 SQ.FT	23.33 SQ.FT	1200 LBS	60.0 FT					
1/2 ICE	52.0 SQ.FT	28.89 SQ.FT 42.50 SQ.FT	1600 LBS 900 LBS	60.0 FT					
NO ICE	76.5 SQ.FT			60 FT TO 30 FT					
1/2 ICE	93.0 SQ.FT	51.67 SQ.FT	1700 LBS	60 FT TO 30 FT					
(1) - 7/8 COAX ELEVATION O FT TO 60 FT									
	CLIMBING LADDER ELEVATION 0 FT TO 40 FT								

LEGS	2.375" X 0.154"	1.9" X 0.145"	2.0 X 10 GA	*	
DIAGONALS	L1 3/4 X 1 3/4 X 1/8	L1 1/2 X 1 1/2 X 1/8	L1 3/4 X 1 3/4 X 1/8	A36	
GIRTS	L1 3/4 X 1 3/4 X 1/8	L1 1/2 X 1 1/2 X 1/8	L1 1/4 X 1 1/4 X 1/8	AJ6	≥
BRACE BOLTS	(1) - 5	5/8" DIA	- SHOP WELDED -		ASTM
SPLICE BOLTS		(4) - 1/2" DIA	92) - 1/2" DIA	A307 GRADE B	
ANCHOR BOLTS		(4) - 3/4" DIA (C1			

* PIPE LEGS 42 KSI MIN YIELD 10GA TUBE LEGS 30KSI MIN YIELD

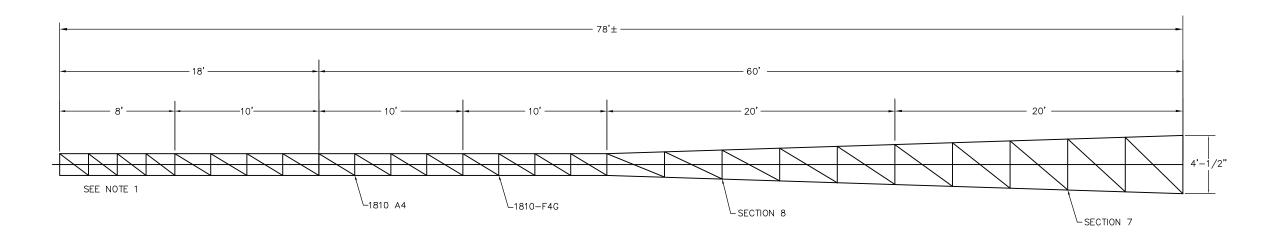


INTERIOR BRACING (NOT REQUIRED)

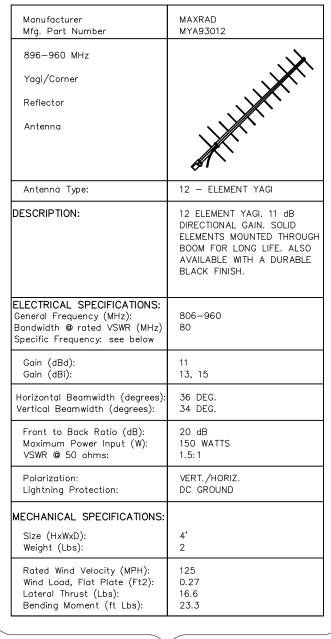
FOUNDATION REACTIONS:

TOTAL MOMENT: 90.7 FT-KIPS
TOTAL SHEAR: 4 KIPS
TOTAL DOWNLOAD: 3 KIPS

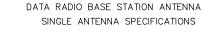
NEW TOWER SHALL BE ENGINEER APPROVED EQUAL OR BETTER THAN TOWER SHOWN HERE



	PENINSULA CORRIDOR JOINT PO	STANDARD DRAWINGS	CADD FILE NAME: SD-6606	
	APPROVED BY: Bin Zhang DEPUTY DIRECTOR, ENGINEERING	Calirain 1250 San Carlos Avenue San Carlos, CA 9407D	TRAIN CONTROL COMMUNICATION ATCS (DATA) RADIO SYSTEM CEMOF BASE STATION TOWER EXTENSION DETAILS	REV: EDITION: FOURTH TRAIN CONTROL STANDARD DRAWING NO.: SD-6606

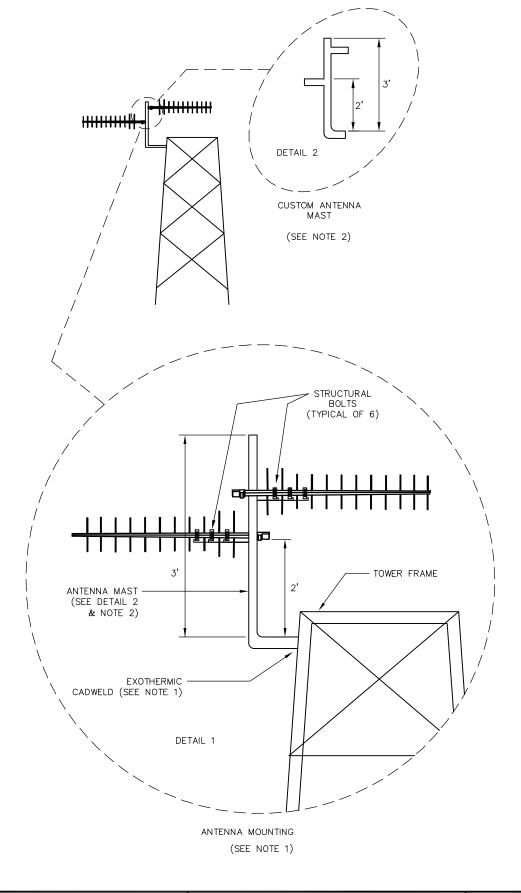


NORTH-FACING ELEMENT HEIGHT (TERRAIN + TOWER): 158 FEET POINTING AZIMUTH: 302 BEAMWIDTH: H-36', V-34' BEAMTILT: 0 _____ ANTENNA COMBINER -SOUTH-FACING ELEMENT HEIGHT (TERRAIN + TOWER): 158 FEET POINTING AZIMUTH: 139 BEAMWIDTH: H-36', V-34 LIGHTNING ARRESTER %" COAXIAL CABLE BASE STATION DUPLEXER 1/2" COAXIAL CABLE - SINGLE GROUND CONNECTION CONNECTOR GROUND PLATE SINGLE LINE DRAWING OF ANTENNA SYSTEM



NOTES:

- 1. ANTENNA MASTS SHALL USE AN 'EXOTHERMIC' CADWELD TO THE TOWER FRAME. THIS CADWELD SHALL POSSESS THE STRENGTH TO MEET THE STRUCTURAL AND WIND LOADING REQUIREMENTS OF THE TECHNICAL SPECIFICATION. THE CONTRACTOR'S REGISTERED CIVIL/STRUCTURAL ENGINEER SHALL DETERMINE THE APPROPRIATE EXOTHERMIC AND STRUCTURAL WELD AND SUBMIT THE CALCULATIONS TO CALTRAIN FOR REVIEW AND APPROVAL.
- 2. A CUSTOM ANTENNA MAST IS REQUIRED. MAST SHALL BE OF AN EXCELLENT CONDUCTOR. ANTENNA SHALL BE GROUNDED THROUGH THE MAST AND TOWER TO GROUND. CONTRACTOR SHALL USE THIS CONFIGURATION OR ENGINEER APPROVED EQUAL.
- 3. ANTENNA POINTING AZIMUTHS ARE WITH RESPECT TO TRUE NORTH.



					01012024 FOURTH EDITION						
REV	DATE	BY	СНК	APP	DESCRIPTION	REV	DATE	BY	СНК	APP	

APPROVED BY:

Bin Zhang

DEPUTY DIRECTOR, ENGINEERING

PENINSULA CORRIDOR JOINT POWERS BOARD



TRAIN CONTROL COMMUNICATION ATCS (DATA) RADIO SYSTEM CEMOF BASE STATION TOWER INSTALLATION DETAILS

STANDARD DRAWINGS

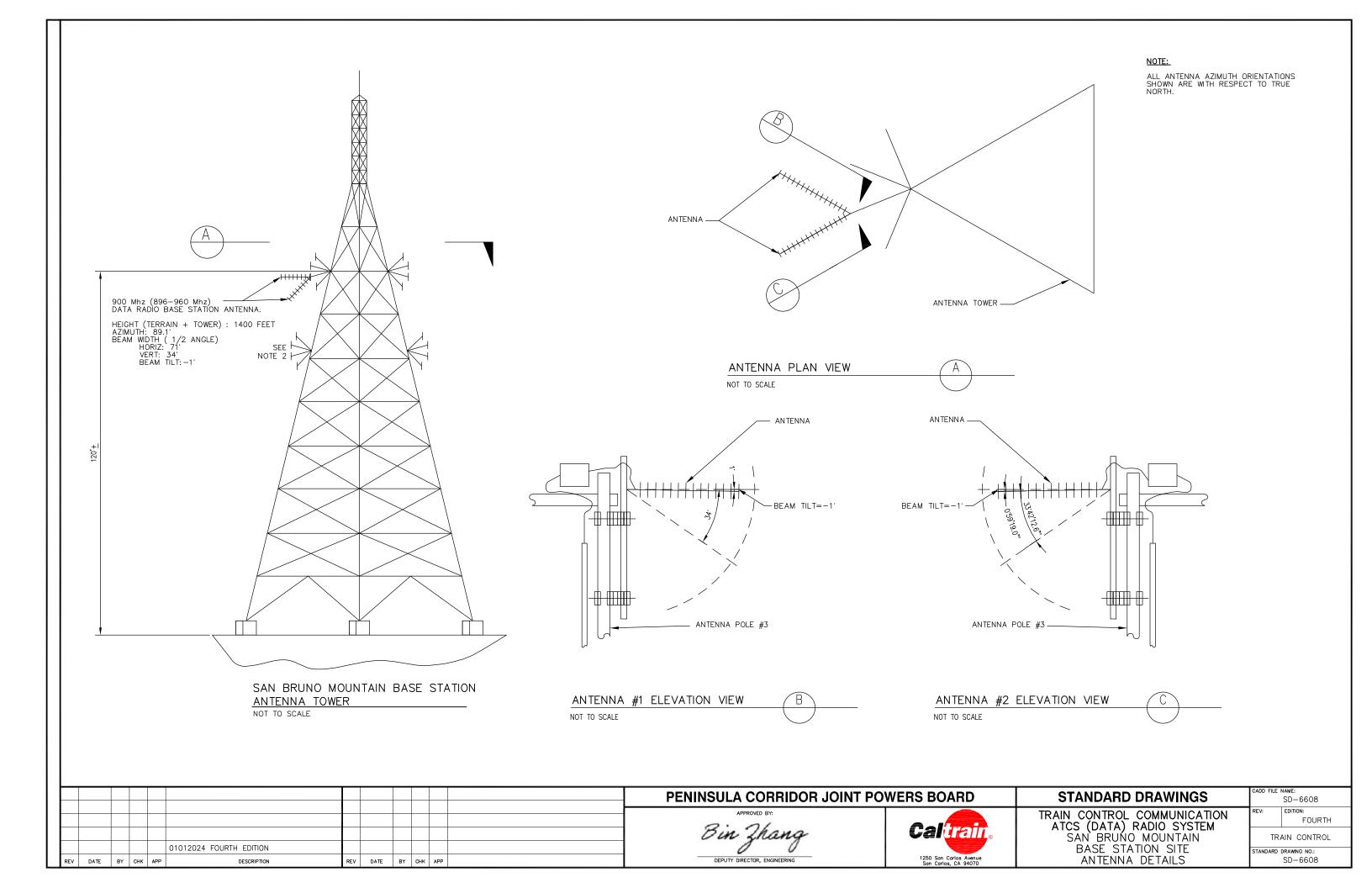
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SD-6607

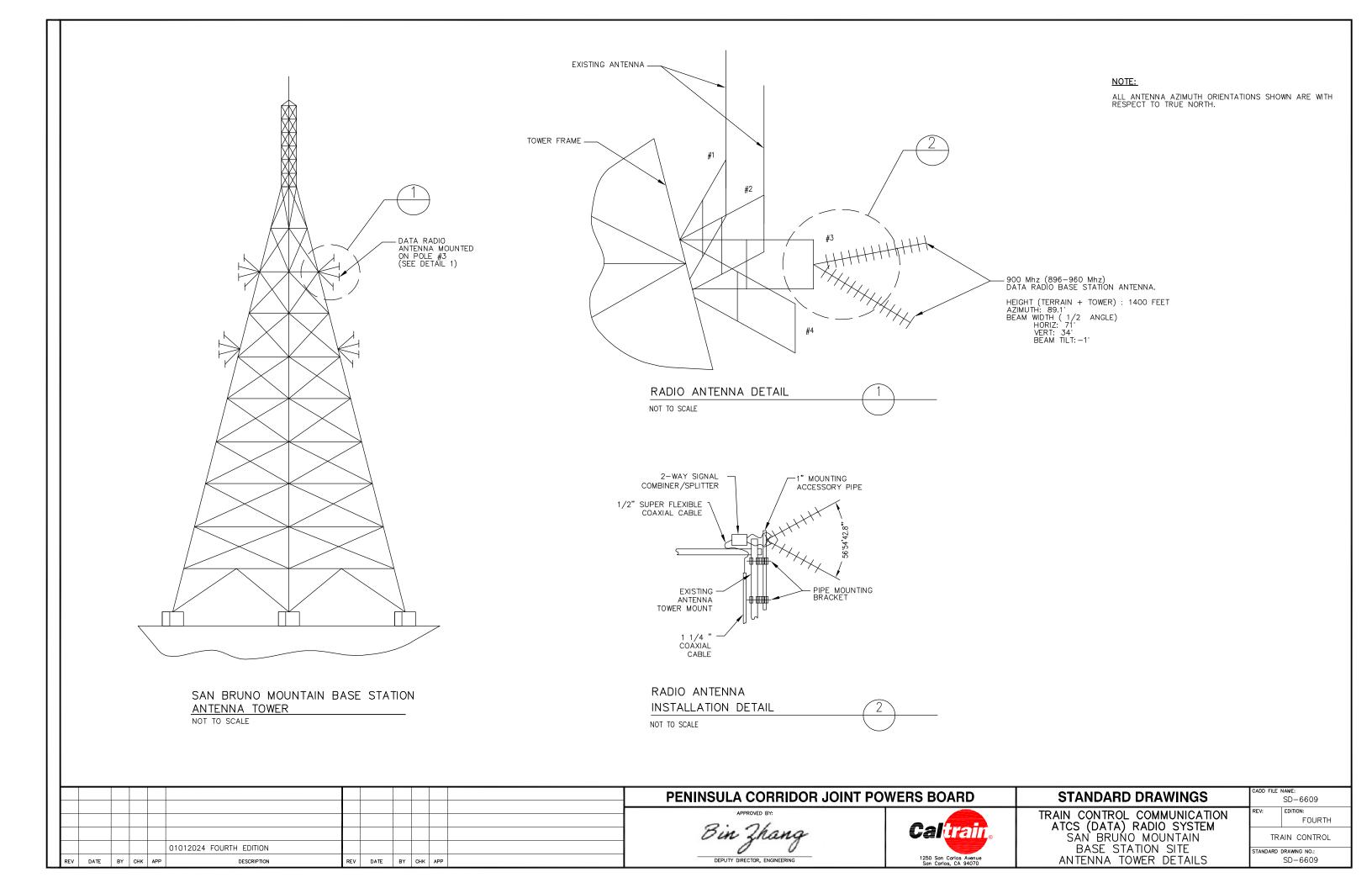
REV: EDITION:
FOURTH

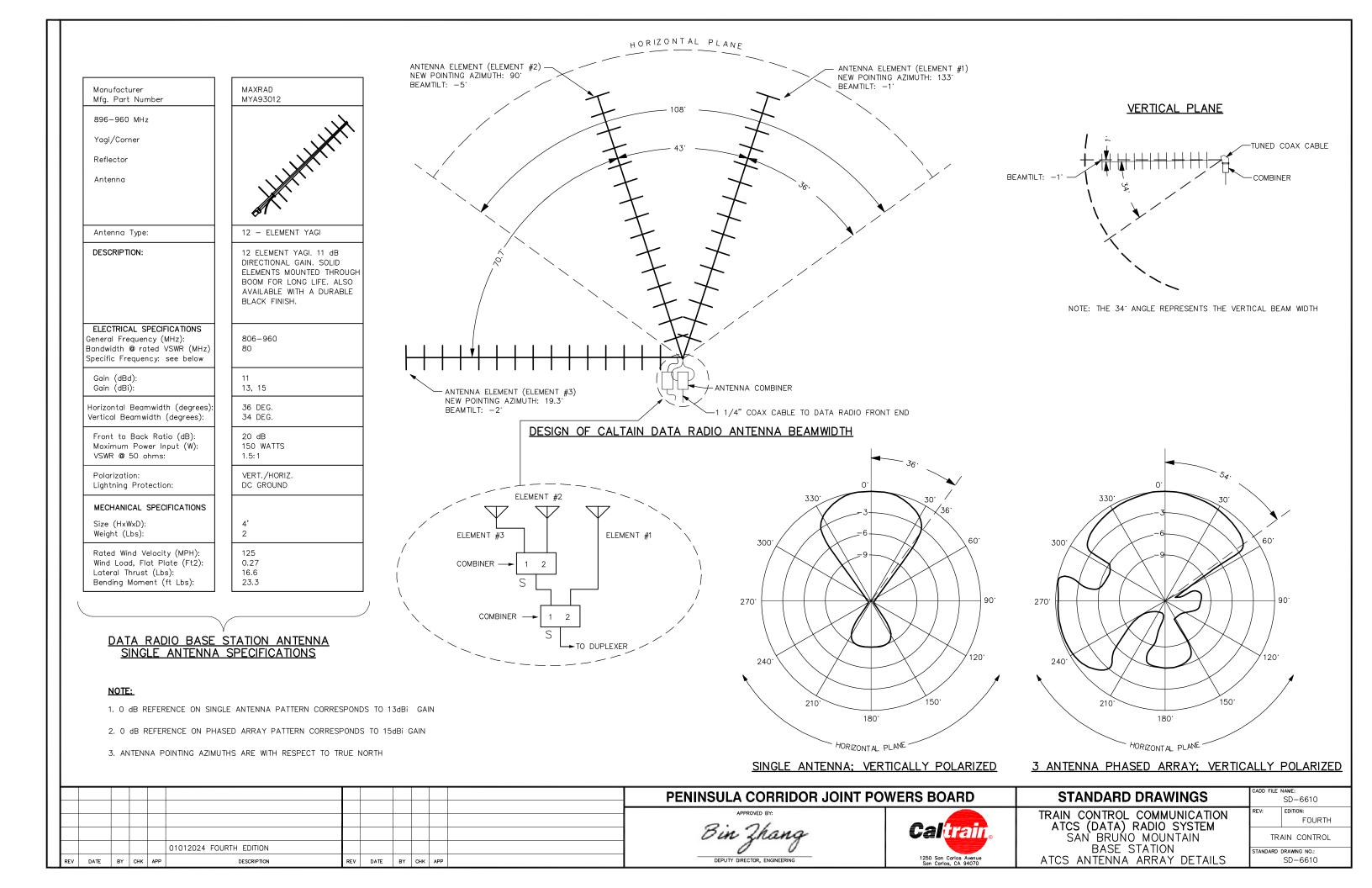
TRAIN CONTROL

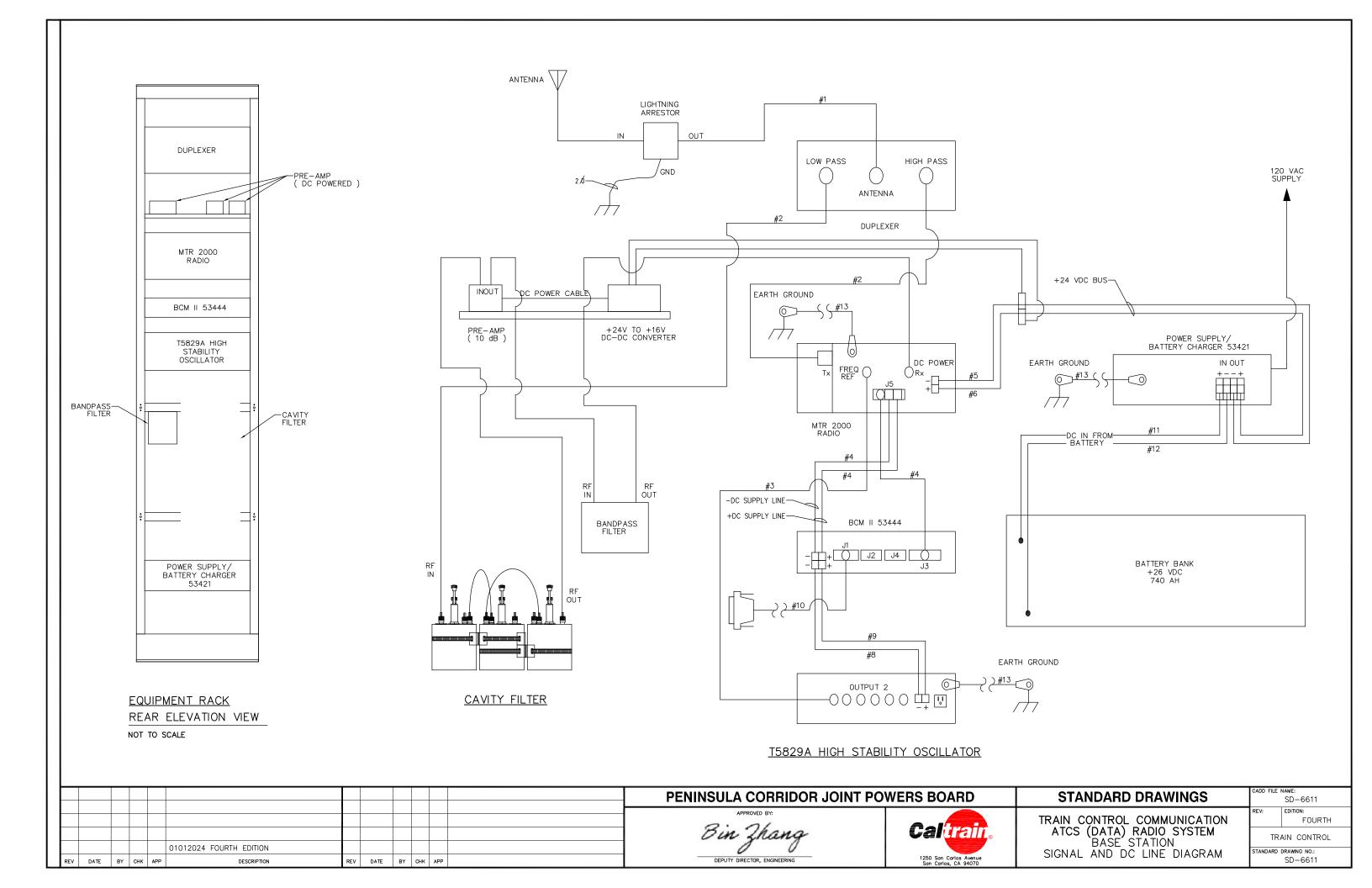
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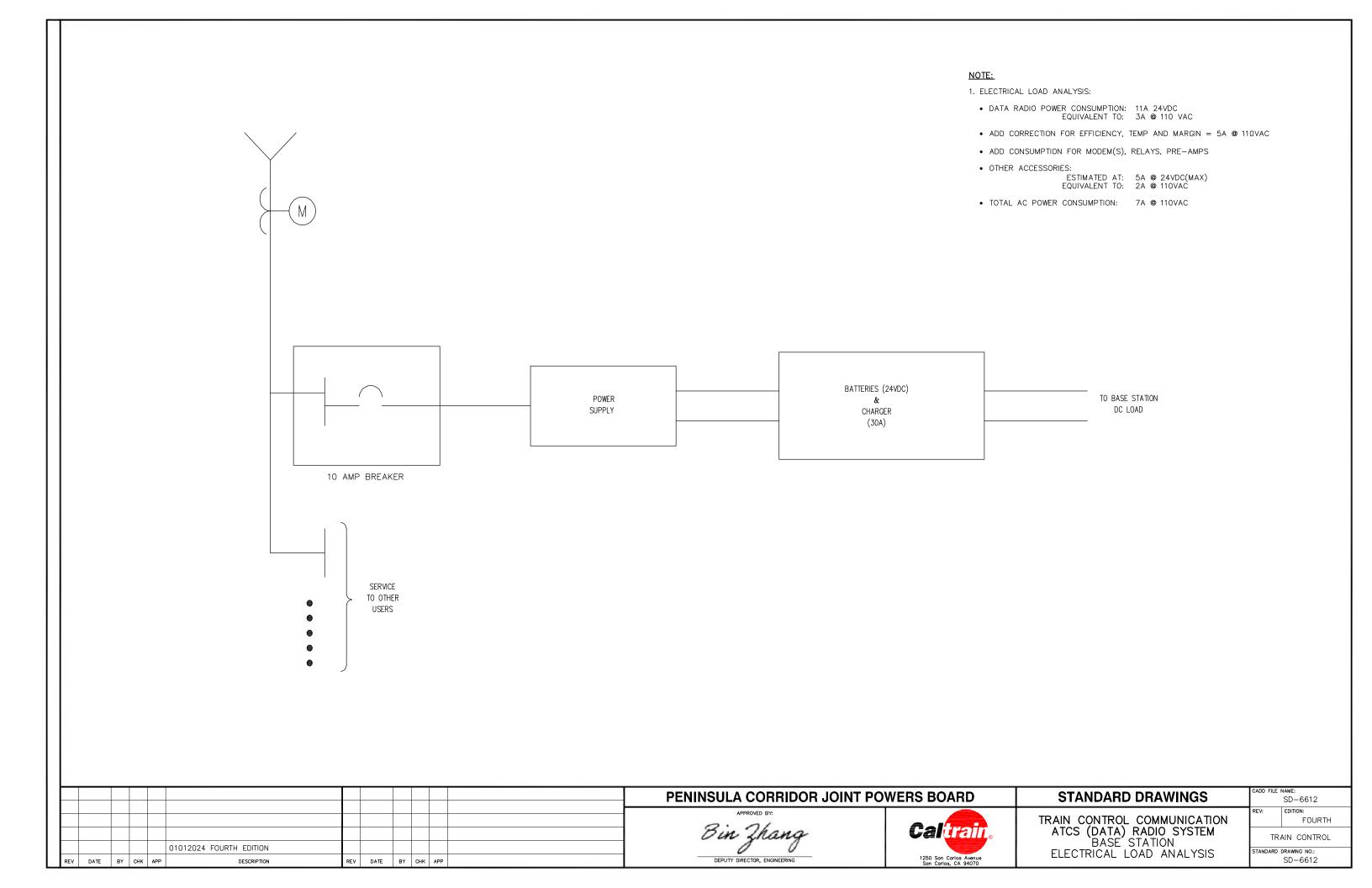
SD-6607

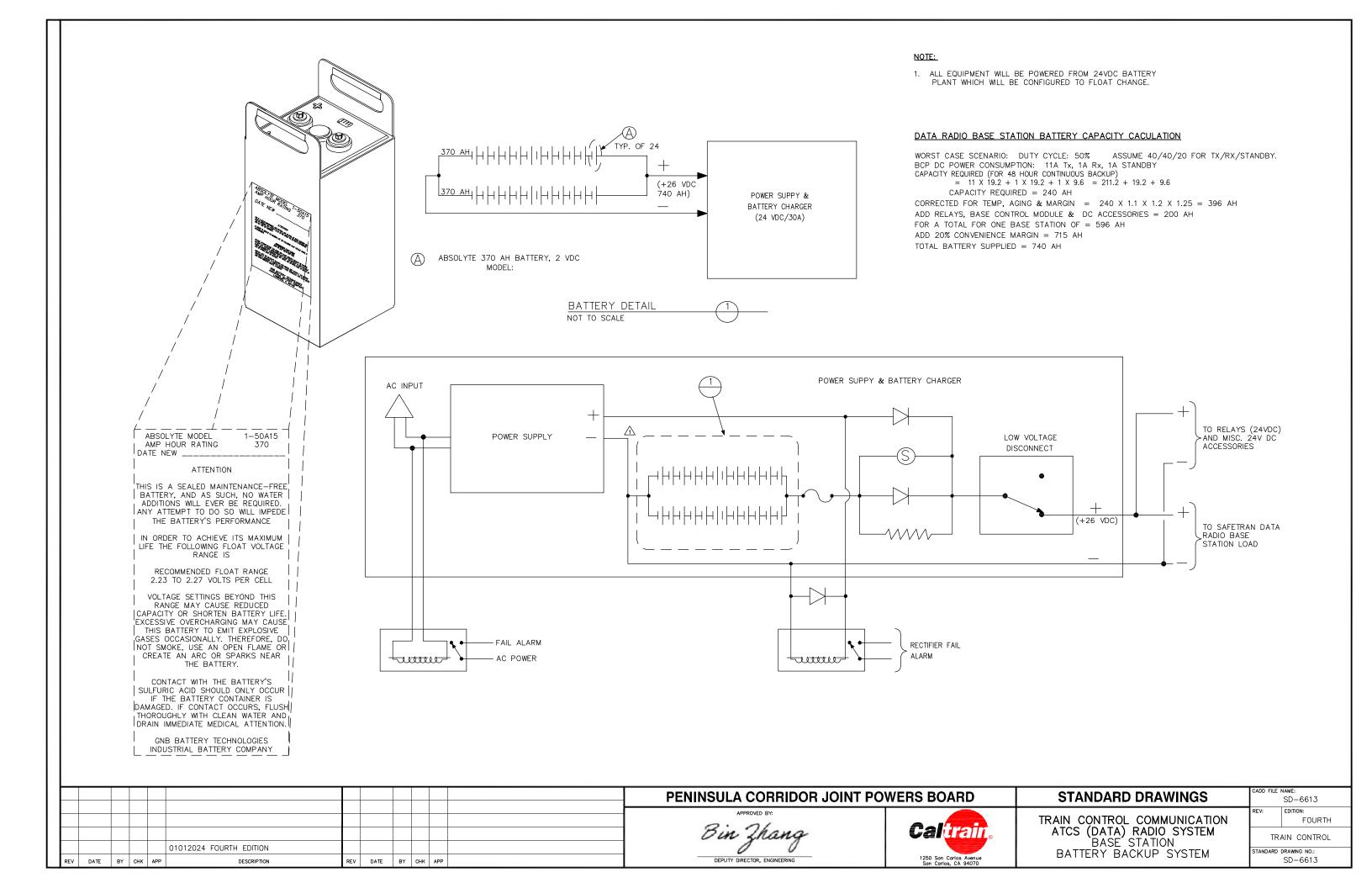


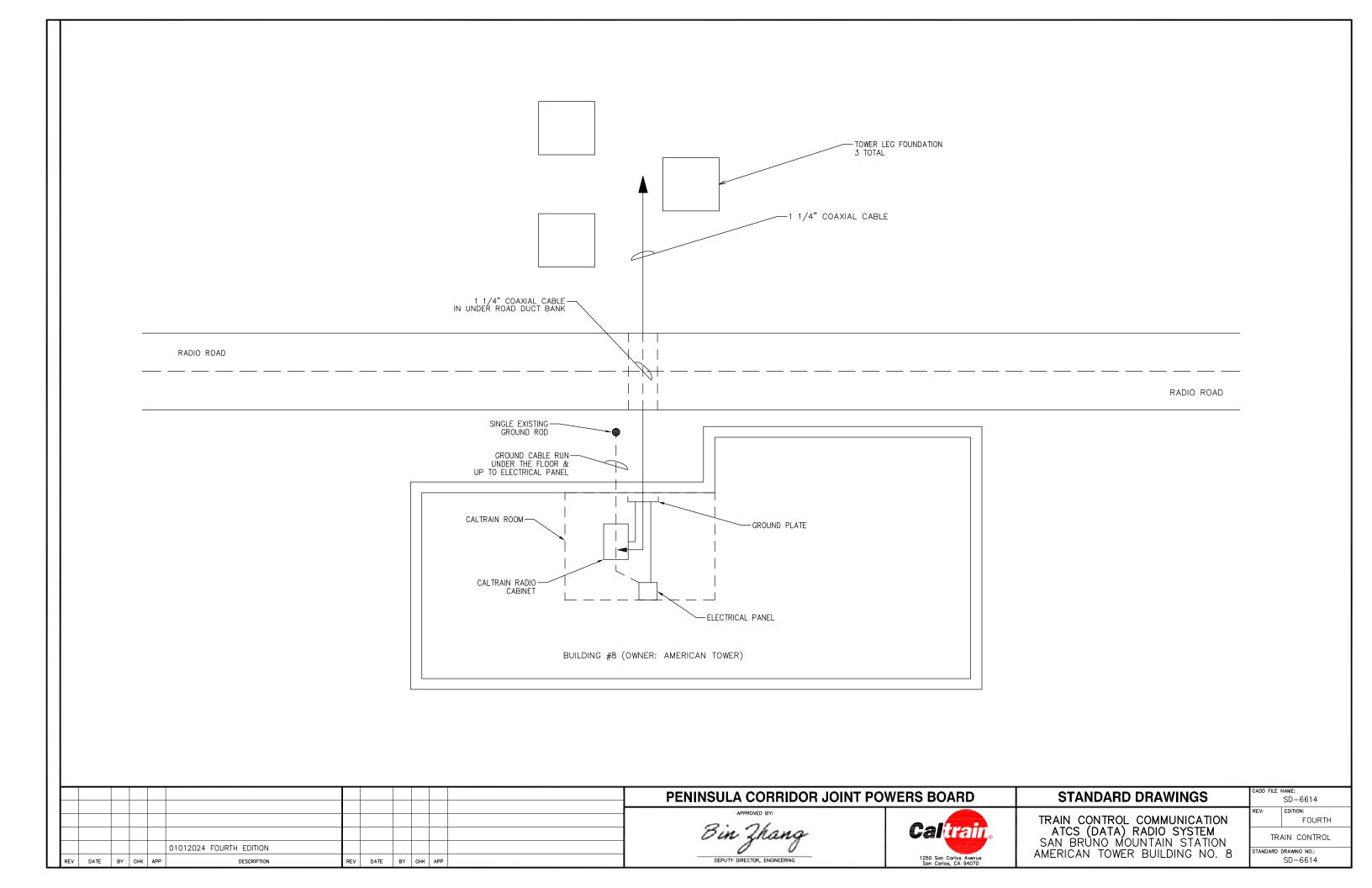


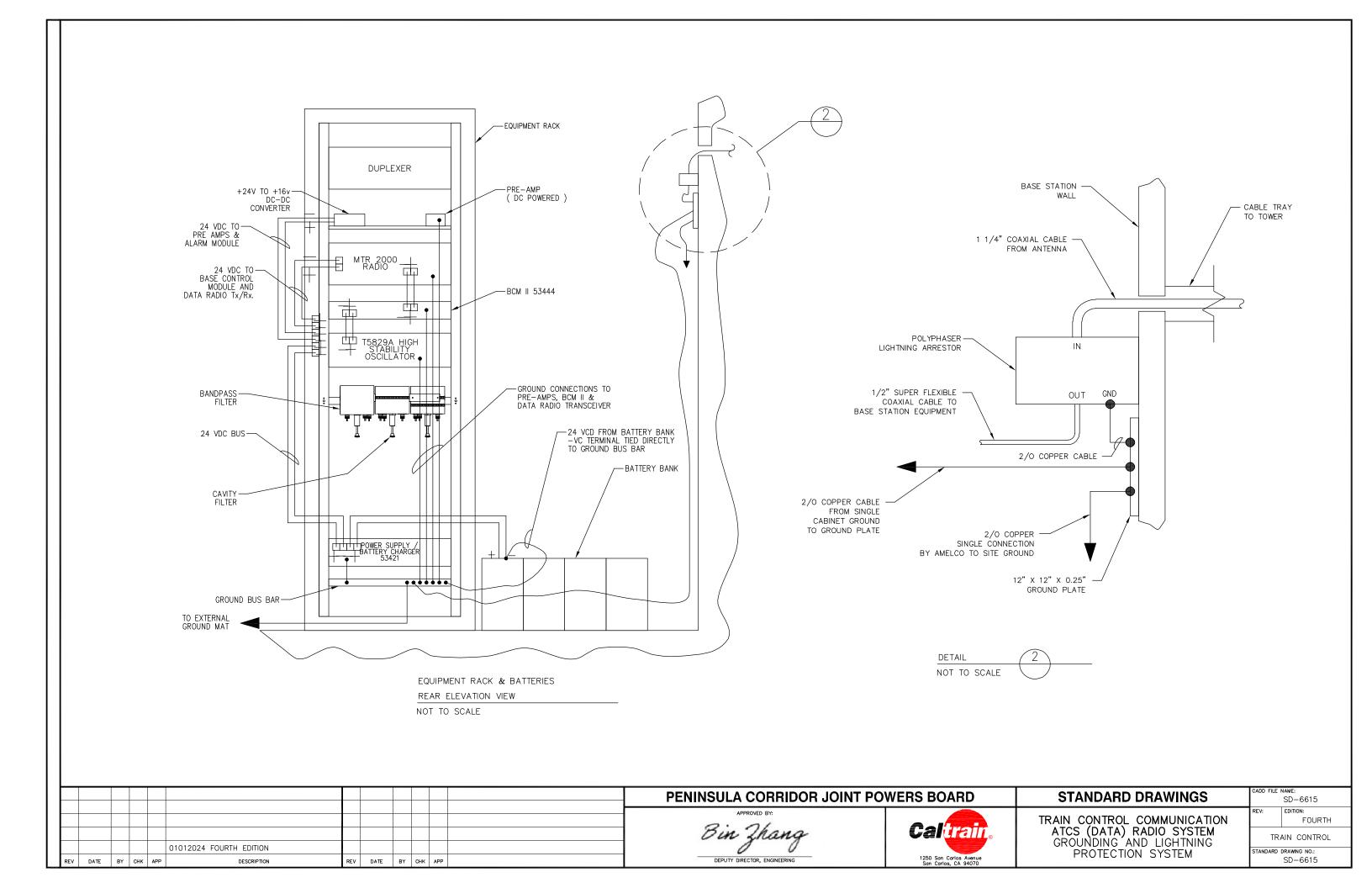


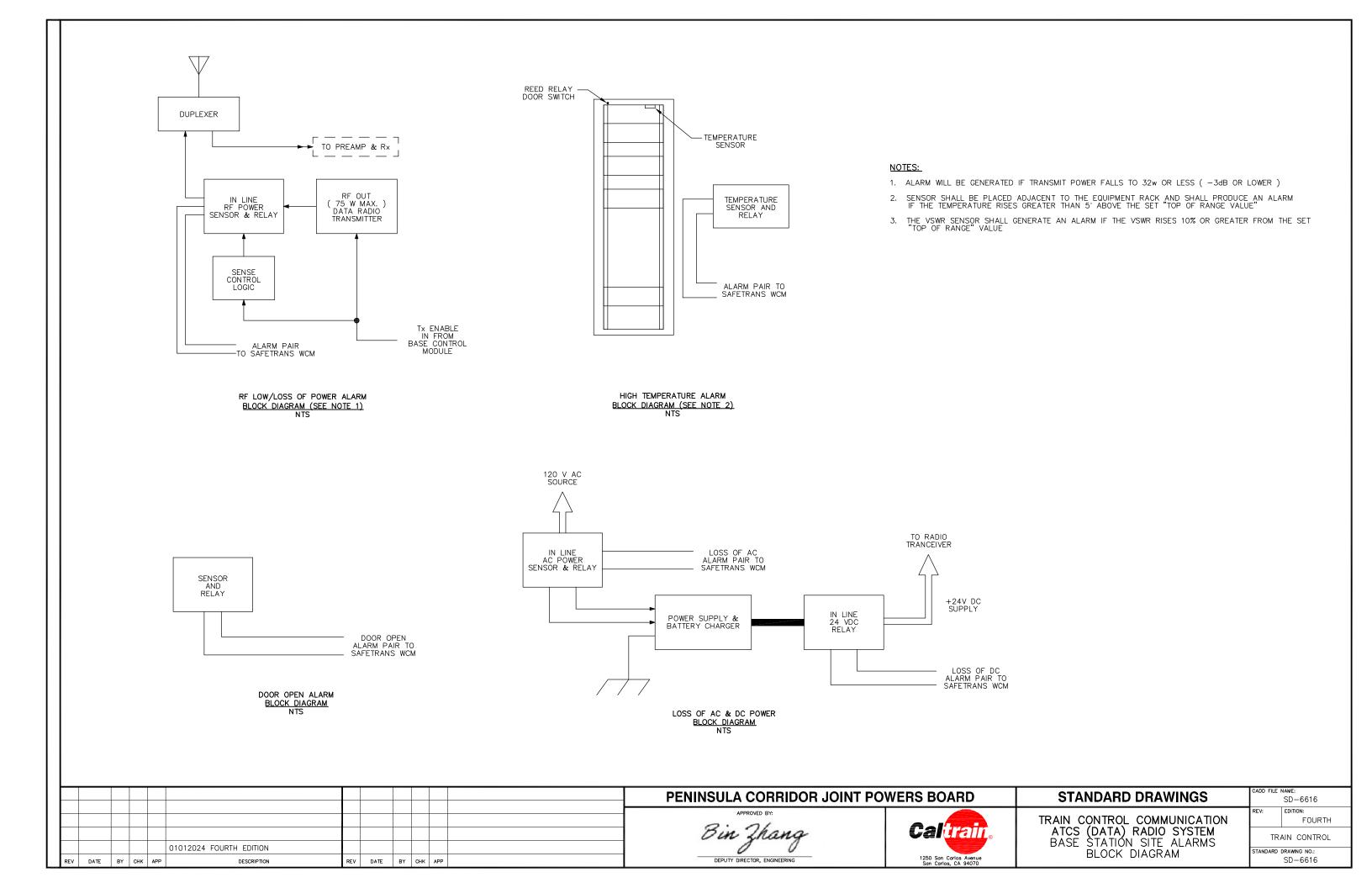


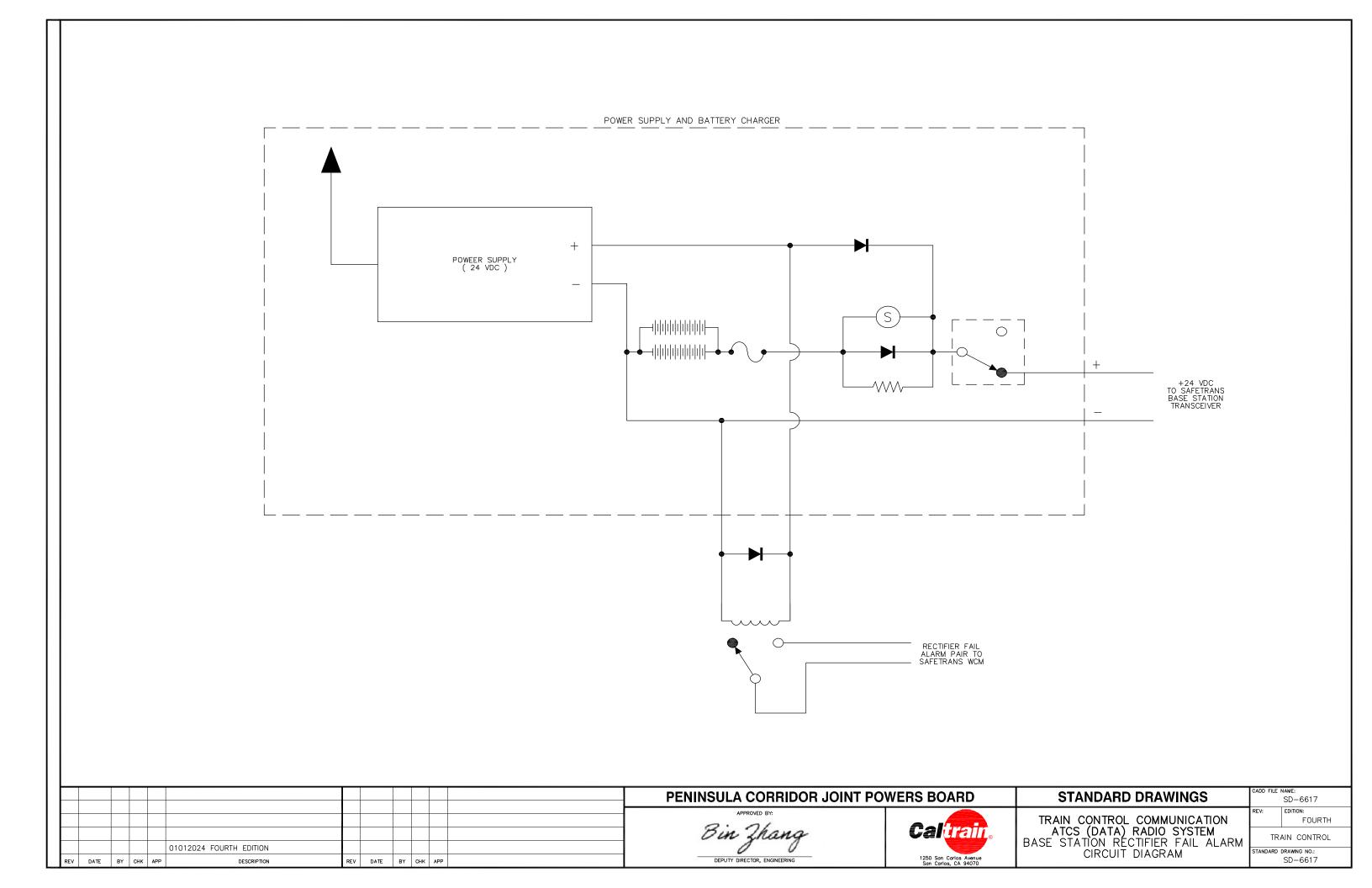












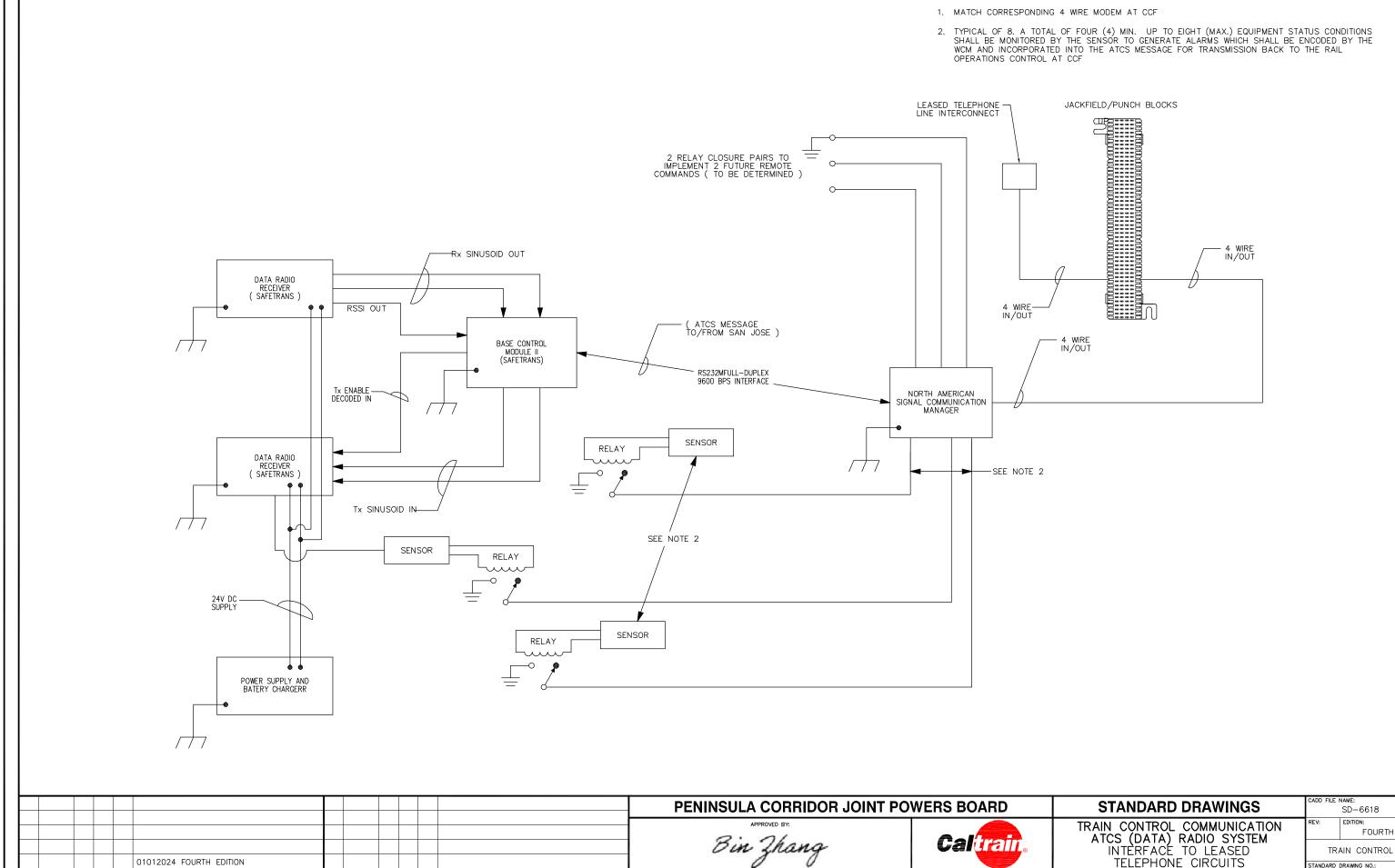
NOTES: 1. MATCH CORRESPONDING 4 WIRE MODEM AT CCF 2. TYPICAL OF 8. A TOTAL OF FOUR (4) MIN. UP TO EIGHT (MAX.) EQUIPMENT STATUS CONDITIONS SHALL BE MONITORED BY THE SENSOR TO GENERATE ALARMS WHICH SHALL BE ENCODED BY THE WCM AND INCORPORATED INTO THE ATCS MESSAGE FOR TRANSMISSION BACK TO THE RAIL OPERATIONS CONTROL AT CCF

1250 San Carlos Avenue San Carlos, CA 94070

STANDARD DRAWING NO.:

SD-6618

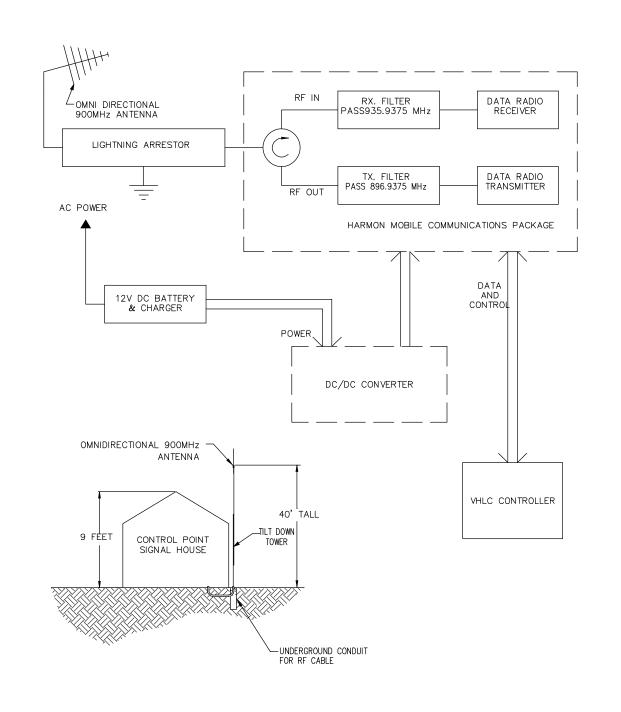
CIRCUIT DIAGRAM



DEPUTY DIRECTOR, ENGINEERING

REV DATE BY CHK APP

REV DATE BY CHK APP



CONTROL POINT RADIO
RACK ASSEMBLY DETAIL
NOT TO SCALE

—19" EIA RACK

HARMON MCP-

DATA RADIO {

DC/DC CONVERTER

DC/DC CONVERTER-

2 0 CONNECTION -TO GROUND -

SPACE RESERVED FOR SIGNALING EQUIPMENT

7 · 图 · 图 · 图 · 图 · 图 · 图 · 图

 $\mathrel{\perp_{\mathsf{SHELF}}}$ BRACKET

HOUSE CEILING -1/2" COAXIAL RF IN / OUT CABLE TO ANTENNA

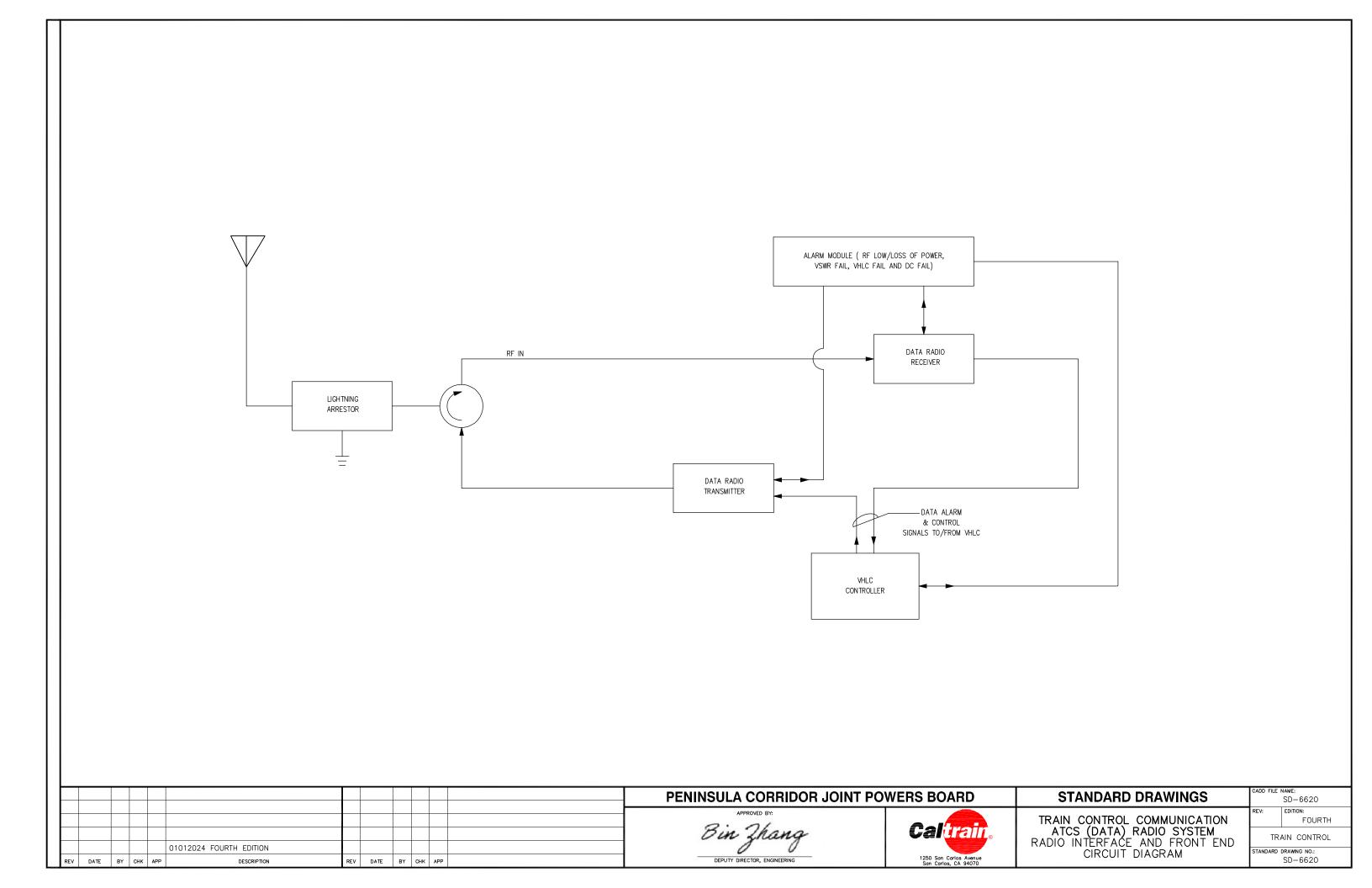
ARRESTER

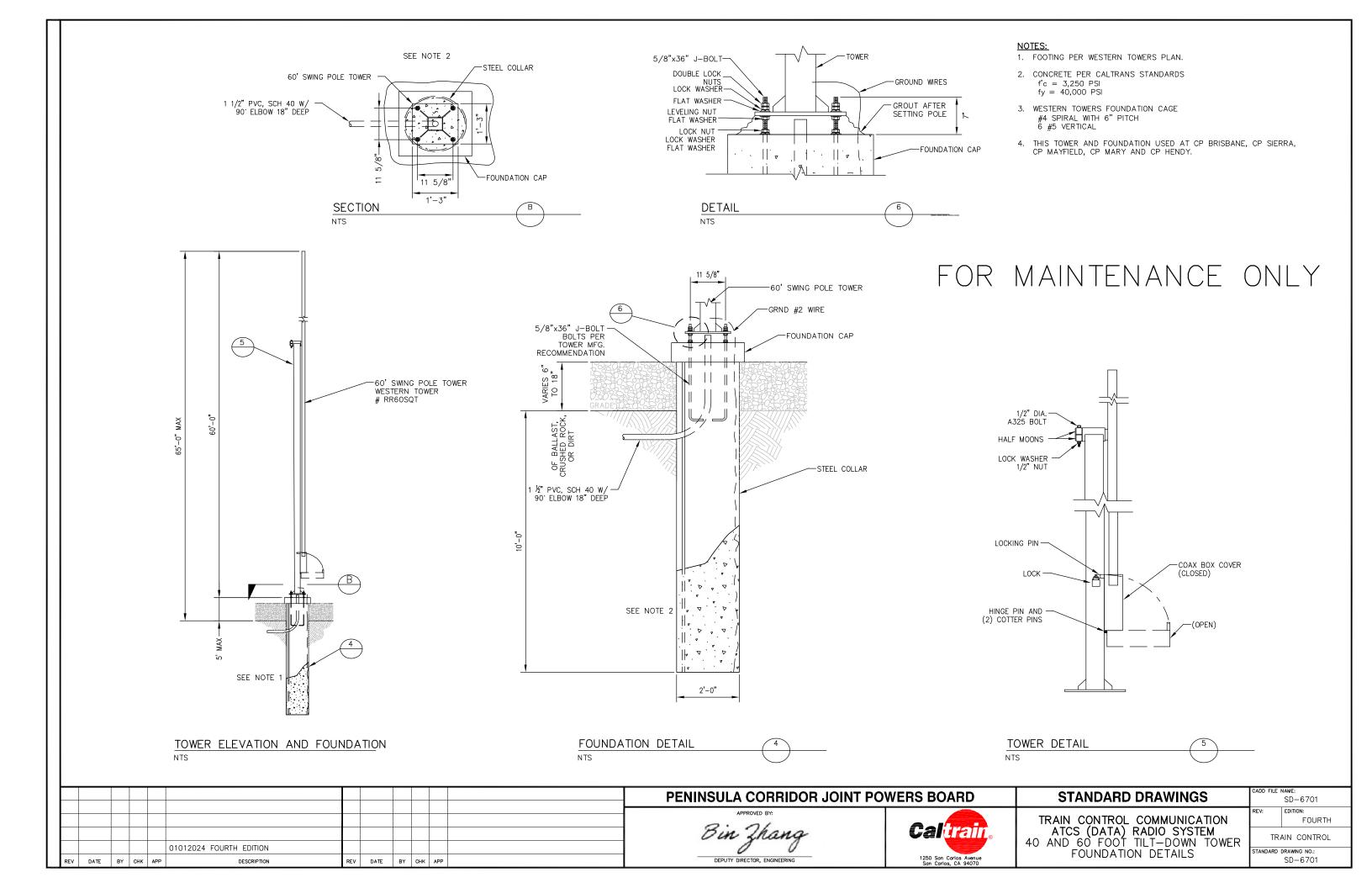
_1/2" SUPERFLEX COAX TO RF IN / OUT OF DATA RADIO

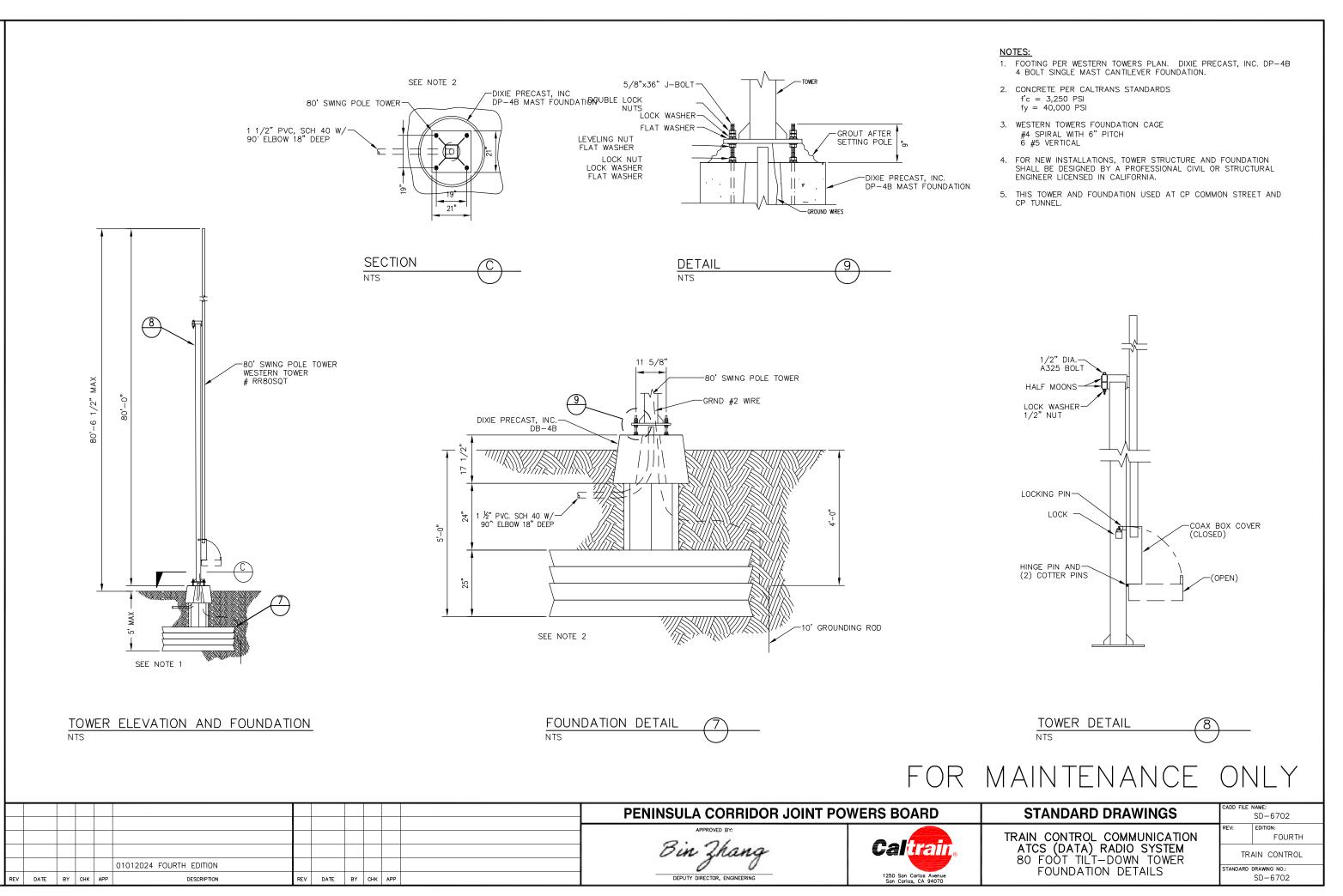
-RF/VSWR ALARM MODULE

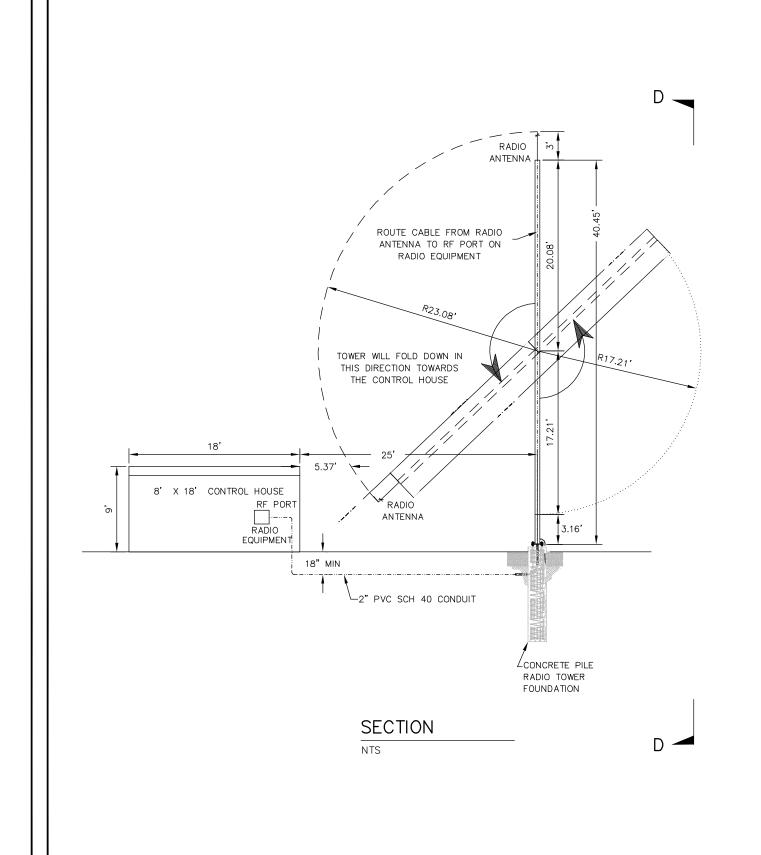
CONTROL POINT RADIO
HUT & ANTENNA DETAIL
NOT TO SCALE

1 L												
									PENINSULA CORRIDOR JOINT PO	WERS BOARD	STANDARD DRAWINGS	cadd file name: SD-6619
									APPROVED BY:	Caltrain	TRAIN CONTROL COMMUNICATION	REV: EDITION: FOURTH
				01012024 FOURTH EDITION					Bin Thang	Caluell.	ATCS (DATA) RADIO SYSTEM MOBILE DATA RADIO SYSTEM	TRAIN CONTROL
Ц	REV [DATE	BY CHK	APP DESCRIPTION	RE	V DATE	BY CH	APP	DEPUTY DIRECTOR, ENGINEERING	1250 San Carlos Avenue San Carlos, CA 94070	BLOCK DIAGRAM	SD-6619





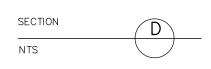




NOTES:

- 1. CONFIGURE TOWER SO THAT IT TILTS DOWN PARALLEL TO THE TRACKS.
- 2. FOR NEW INSTALLATIONS, TOWER TILT MECHANISM SHALL BE DESIGNED BY A PROFESSIONAL ELECTRICAL ENGINEER LICENSED IN CALIFORNIA.
- 3. THIS DRAWING SHOWS A GENERIC ANTENNA LAYOUT FOR THE FOLLOWING CP LOCATIONS:

CON	TROL POINTS WITH 4	0 FT TOWERS
CP NO.	CP NAME	M.P.
3	CP GENEVA	5.5
6	CP CENTER	12.8
8	CP TROUSDALE	14.2
9	CP PALM	18.2
10	CP RALSTON	21.6
11	CP DUMBARTON	26.0
12	CP JUNCTION	27.2
13	CP ALMA	29.2
17	CP BOWERS	41.6



EQUIPMENT

TRACKS WILL BE VIEWED ON THIS SIDE FOR THESE ANTENNA STATIONS ONLY

RADIO

ANTENNA

∽RADIO ANTENNA CABLE

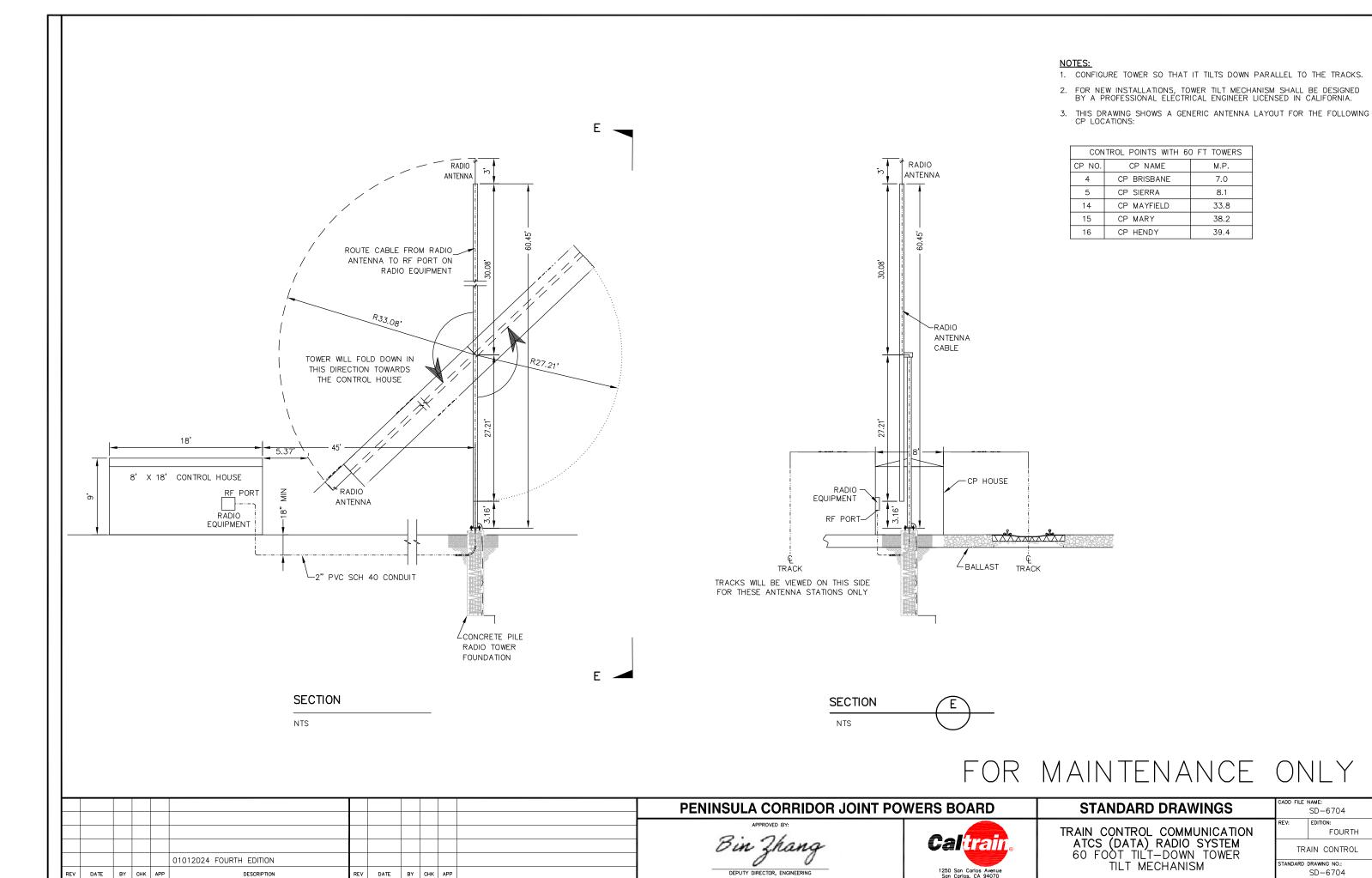
- CP HOUSE

∠_{BALLAST}

€ TRACK

FOR MAINTENANCE ONLY

					PENINSULA CORRIDOR JOINT PO	WERS BOARD	STANDARD DRAWINGS	CADD FILE NAME: SD-6703
REV DATE	BY CHK	01012024 FOURTH EDITION APP DESCRIPTION	DATE	BY CHK	APPROVED BY: Bin Zhang DEPUTY DIRECTOR, ENGINEERING	Calcrain® 1250 San Carlos Avenue San Carlos, CA 94070	TRAIN CONTROL COMMUNICATION ATCS (DATA) RADIO SYSTEM 40 FOOT TILT—DOWN TOWER TILT MECHANISM	REV: EDITION: FOURTH TRAIN CONTROL STANDARD DRAWING NO.: SD-6703



REV DATE BY CHK APP

REV DATE BY CHK APP

SD-6704

TRAIN CONTROL

SD-6704

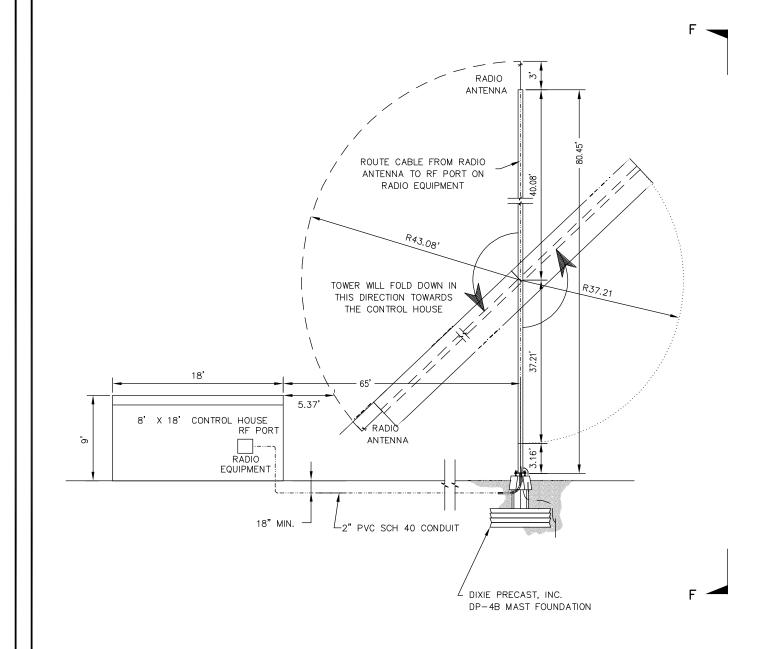
STANDARD DRAWING NO.:

FOURTH

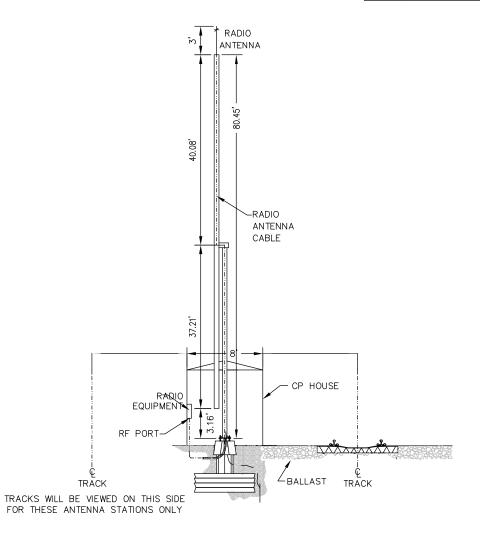
NOTES:

- 1. CONFIGURE TOWER SO THAT IT TILTS DOWN PARALLEL TO THE TRACKS.
- FOR NEW INSTALLATIONS, TOWER TILT MECHANISM SHALL BE DESIGNED BY A PROFESSIONAL ELECTRICAL ENGINEER LICENSED IN CALIFORNIA.
- 3. THIS DRAWING SHOWS A GENERIC ANTENNA LAYOUT FOR THE FOLLOWING CP LOCATIONS:

CONTROL POINTS WITH 80 FT TOWERS							
CP NO.	CP NAME	M.P.					
1	CP COMMON ST.	0.8					
2	CP TUNNEL	5.0					



SECTION NTS



SECTION F

FOR MAINTENANCE ONLY

ΙL				
\perp		PENINSULA CORRIDOR JOINT POWERS BOARD	STANDARD DRAWINGS	ADD FILE NAME: SD-6705
		APPROVED BY:	TRAIN CONTROL COMMUNICATION	EV: EDITION: FOURTH
	OLOMONA FOURTH FOLTON	Bin Zhang Califalli.	ATCS (DATA) RADIO SYSTEM 80 FOOT TILT-DOWN TOWER	TRAIN CONTROL
F		DEPUTY DIRECTOR, ENGINEERING 1250 San Carlos Avenue San Carlos, CA 94070	TILT MECHANISM	randard drawing no.: SD-6705

