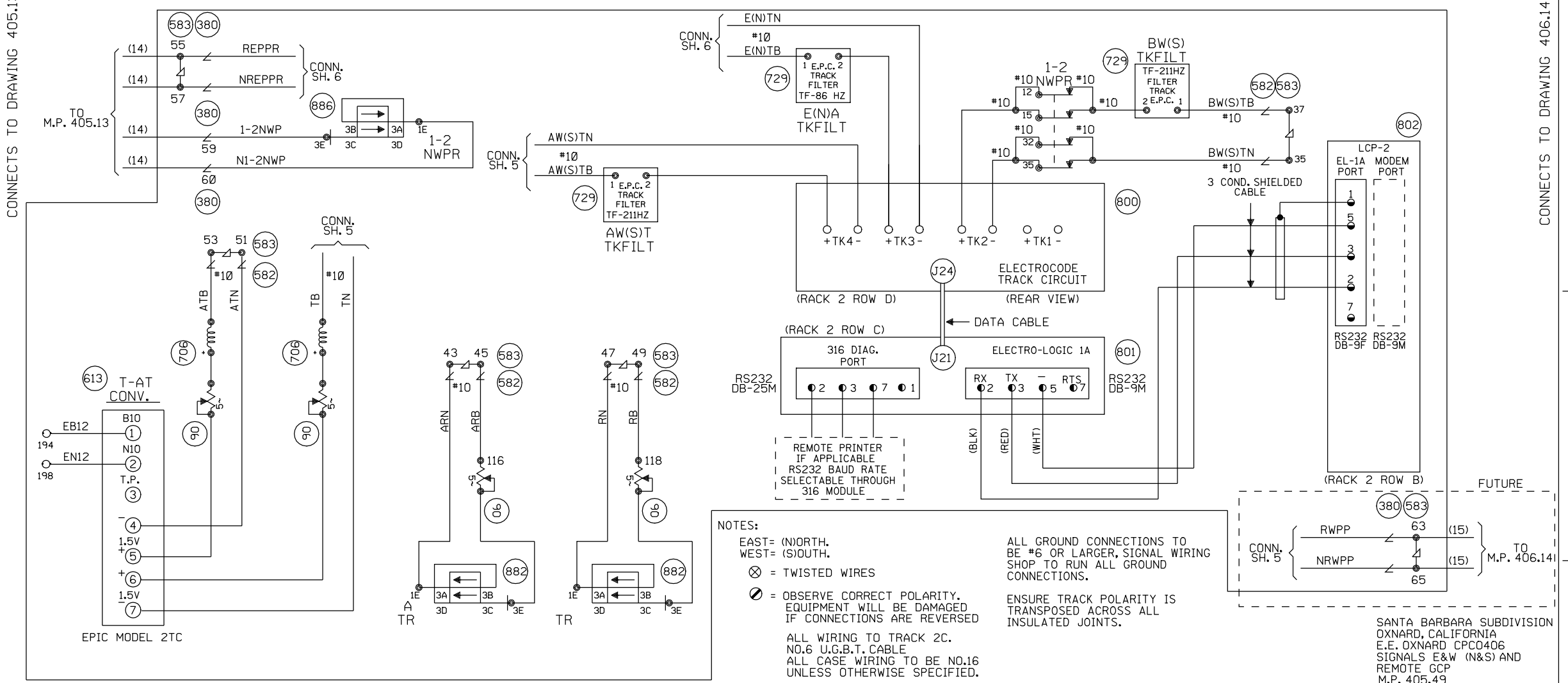
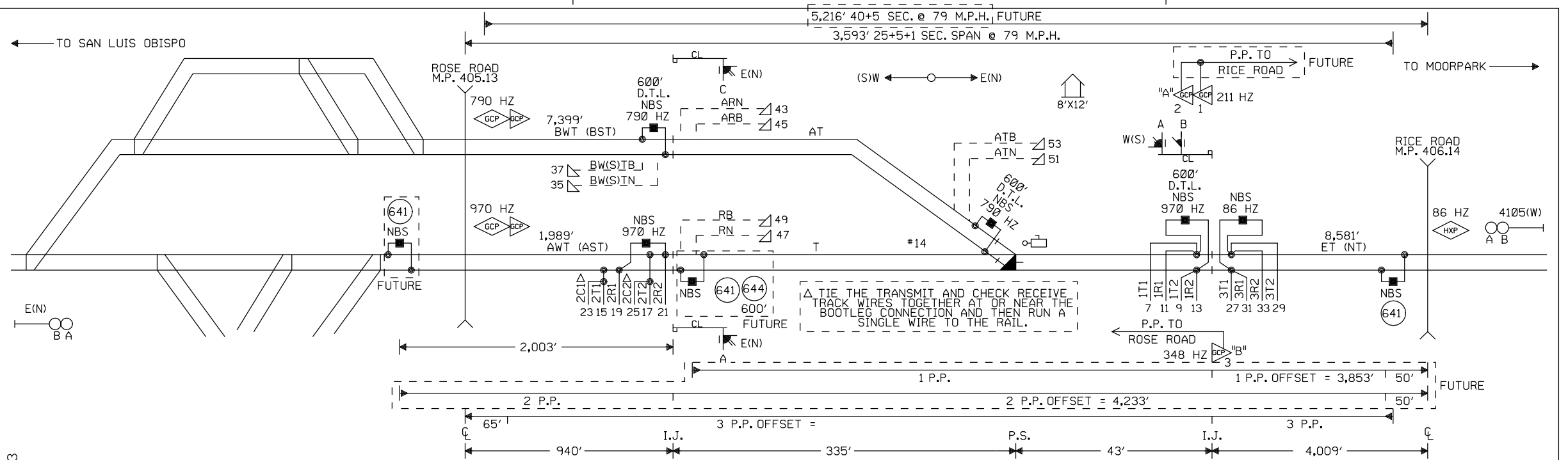


HWY-15-MH-006
Metrolink Train Collision and Derailment
with Service Truck and Trailer
Oxnard, CA
February 24, 2015

ATTACHMENT 3

Circuit Plans C0406 South Oxnard

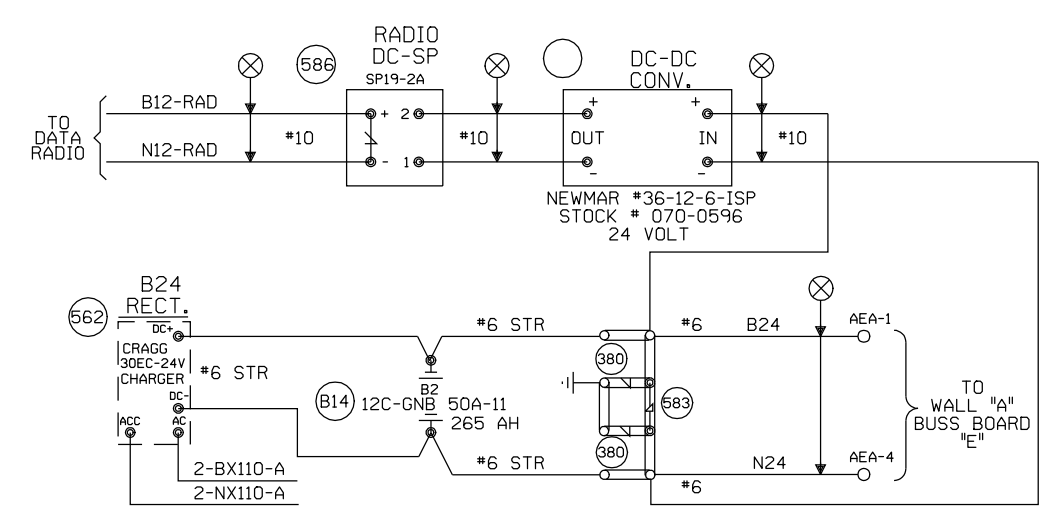
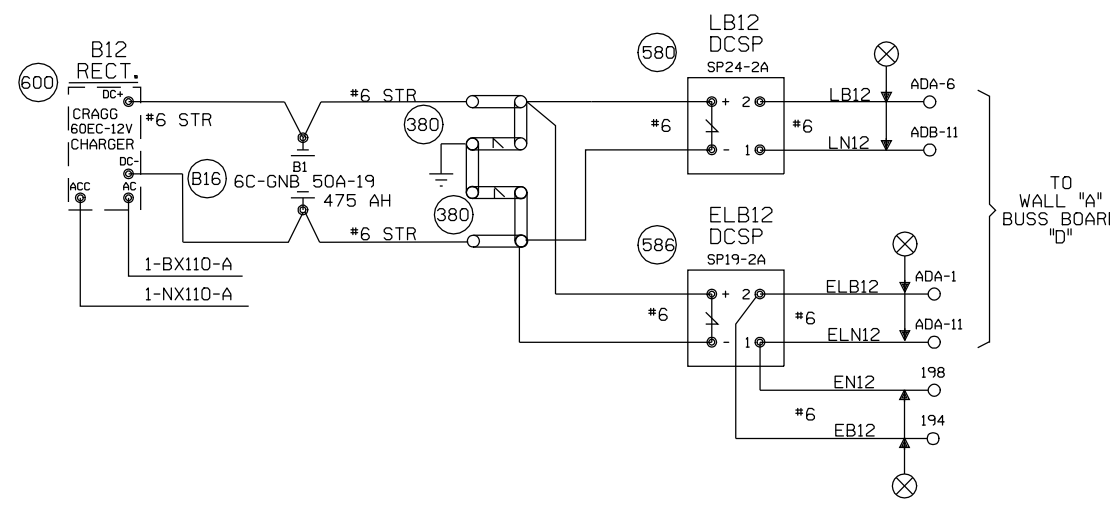
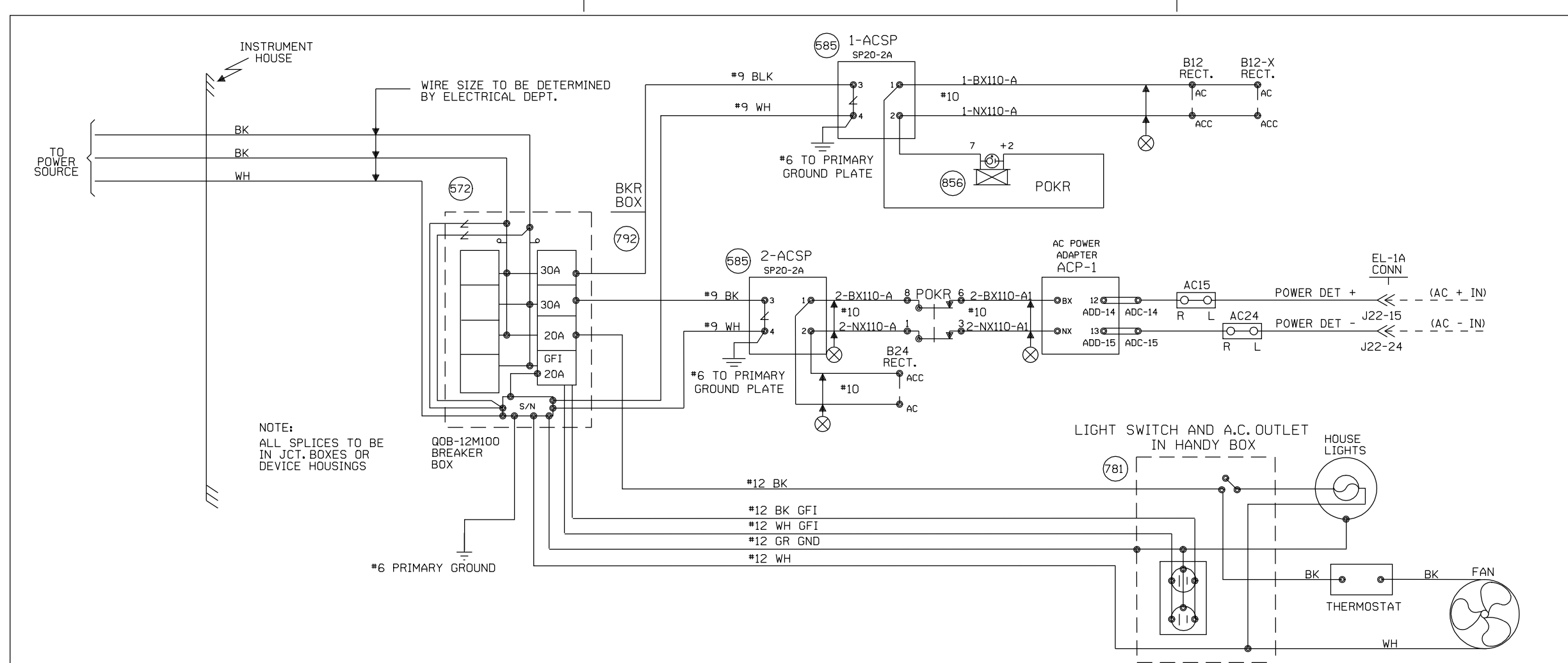


NOTES:
 EAST= (N)ORTH.
 WEST= (S)OUTH.
 ⊗ = TWISTED WIRES
 ⊙ = OBSERVE CORRECT POLARITY. EQUIPMENT WILL BE DAMAGED IF CONNECTIONS ARE REVERSED
 ALL WIRING TO TRACK 2C. NO.6 U.G.B.T. CABLE. ALL CASE WIRING TO BE NO.16 UNLESS OTHERWISE SPECIFIED.
 FOR CABLE TABULATION SEE SH. 4

ALL GROUND CONNECTIONS TO BE #6 OR LARGER, SIGNAL WIRING SHOP TO RUN ALL GROUND CONNECTIONS.
 ENSURE TRACK POLARITY IS TRANSPOSED ACROSS ALL INSULATED JOINTS.

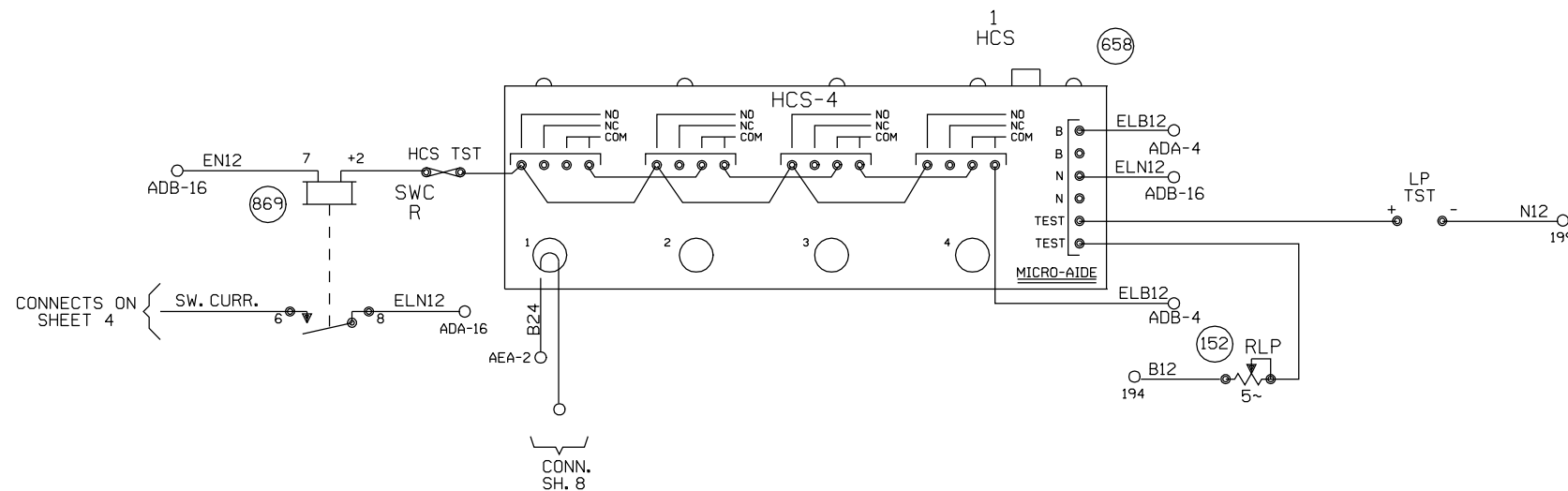
Revised: 01/21/14 UPDATED PLANS TO SHOW P.P. FOR RICE ROAD AS FUTURE PER FIELD AC. Rev#: 19114 W0#: Is: 03/18/13 DPA/NST/ /	Revised: 1-11-11 UPDATED MILE POST PER AC. Rev#: 17349 W0#: Is: 12-10-10 DPA/NST/ /	1 REV. 04-23-02 RELOCATE #14 TURNOUT AT W.E. OXNARD, CA. M.P. 407.29. A.F.E.: 25207 07-31-01 WCL KAS/WITT/CTC/GWS	1 REV. 04-23-02 INSTALL C.T.C. FROM SEACLIFF TO MOORPARK M.P. 388.60 TO M.P. 426.40 A.F.E.: 25206 07-31-01 DWR KAS/WITT/CTC/MDF	MODIFICATION LEVEL Q.A. LAST LEVEL CHK'D. CA LAST LEVEL MOD. THIS TYP. CA LAST LEVEL BY DESIGNER. CG CHANGED FROM TYP.? Y/N Y	CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN	DES: CTC DIG: CTC CHK: DWR A.F.E. 25206 ID: E40549.1S	UNION PACIFIC RAILROAD MOORPARK, CALIFORNIA TO SAN LUIS OBISPO, CALIFORNIA C.T.C. CIRCUITS Office of AVP Engineering - Signal OMAHA NEBR.	DATE 8-18-97 SHEET 1 DWG 405.49 RTE E
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(REV. 8/29/97) (ELOGEOS.1)



SANTA BARBARA SUBDIVISION
OXNARD, CALIFORNIA
E.E. OXNARD CPC0406
SIGNALS E&W (N&S) AND
REMOTE GCP
M.P. 405.49
8'X12' HOUSE

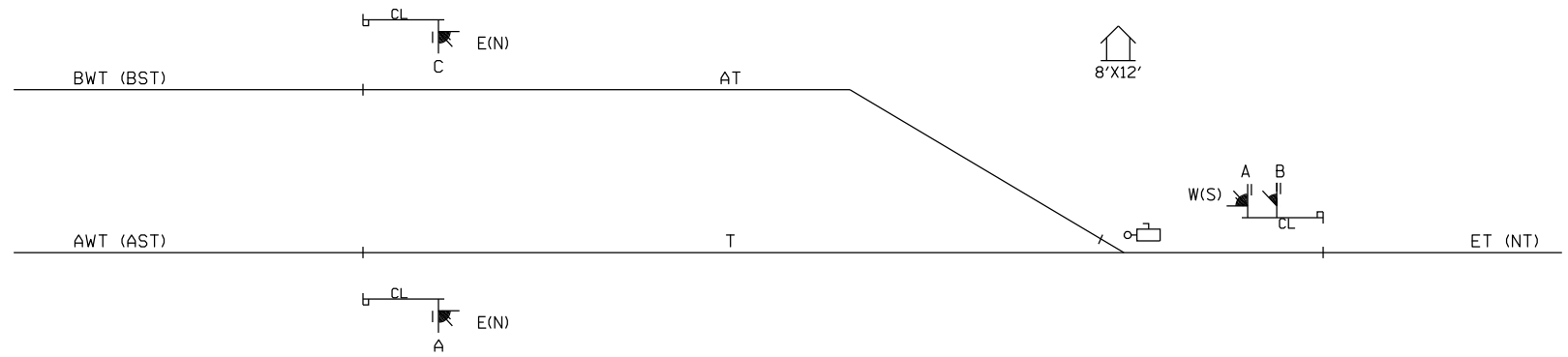
Revised: 1-11-11	1	REV. 04-23-02	MODIFICATION LEVEL	CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN	DES: CTC DIG: CTC CHK: DWR A.F.E. 25206 ID= E40549.25	UNION PACIFIC RAILROAD MOORPARK, CALIFORNIA TO SAN LUIS OBISPO, CALIFORNIA C.T.C. CIRCUITS Office of AVP Engineering - Signal	DATE 8-18-97 SHEET 2 DWG 405.49 RTE E
UPDATED MILE POST PER AC.		INSTALL C.T.C. FROM SEACLIFF TO MOORPARK M.P. 388.60 TO M.P. 426.40	Q.A. LAST LEVEL CHK'D. CA LAST LEVEL MOD. THIS TYP. CA LAST LEVEL BY DESIGNER. CG CHANGED FROM TYP.? Y/N Y				
Rec'd: 17349 WOP: 12-10-10 DPA/NST/		A.F.E.: 25206 07-31-01 DWR KAS/WITT/CTC/MDF					



- 4SWHCA96
 ANALOG #1:
 ANALOG #2:
 ANALOG #3:
 ANALOG #4:
 DIGITAL #1: SWPRIN
 DIGITAL #2:
 DIGITAL #3:
 DIGITAL #4:
 DIGITAL #5:
 DIGITAL #6:
 DIGITAL #7:
 DIGITAL #8:
 DIGITAL #9:
 DIGITAL #10:
 DIGITAL #11:
 DIGITAL #12: TEST
 DIGITAL #13:
 DIGITAL #14:
 OUT1
 OUT2
 OUT3
 OUT4
 OUT5
 OUT6
 OUT7

SANTA BARBARA SUBDIVISION
 OXNARD, CALIFORNIA
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 SIGNALS E&W (N&S) AND
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 M.P. 405.49
 8'X12' HOUSE

Revised: 1-11-11 UPDATED MILE POST PER AC.	1	REV. 04-23-02 INSTALL C.T.C. FROM SEACLIFF TO MOORPARK M.P. 388.60 TO M.P. 426.40	MODIFICATION LEVEL		CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN	DES: CTC	UNION PACIFIC RAILROAD MOORPARK, CALIFORNIA TO SAN LUIS OBISPO, CALIFORNIA C.T.C. CIRCUITS Office of AVP Engineering - Signal	DATE 8-18-97
			Q.A. LAST LEVEL CHK'D.	CF		DIG: CTC		SHEET 3
Rec#: 17349 WOP: 12-10-10 DPA/NST/	A.F.E. 25206 07-31-01 DWR KAS/WITT/CTC/MDF	LAST LEVEL MOD. THIS TYP.	CF	CHK: DWR	A.F.E. 25206	DWG 405.49		
		LAST LEVEL BY DESIGNER.	CG					
		CHANGED FROM TYP.? Y/N	Y	ID= E40549.35	OMAHA NEBR.	RTE E		



CABLE TABULATION

- CABLE NO. 1 5C.NO. 6 U.G.B.T. HOUSE TO SIG. E(N)C
- CABLE NO. 3 5C.NO. 6 U.G.B.T. HOUSE TO SIG. E(N)A
- CABLE NO. 5 5C.NO. 6 U.G.B.T. HOUSE TO SIG. W(S)A
- CABLE NO. 6 5C.NO. 6 U.G.B.T. HOUSE TO SIG. W(S)B
- CABLE NO. 7 5C.NO. 6 U.G.B.T. HOUSE TO SW.
- CABLE NO. 8 5C.NO.14 U.G.B.T. HOUSE TO SW.

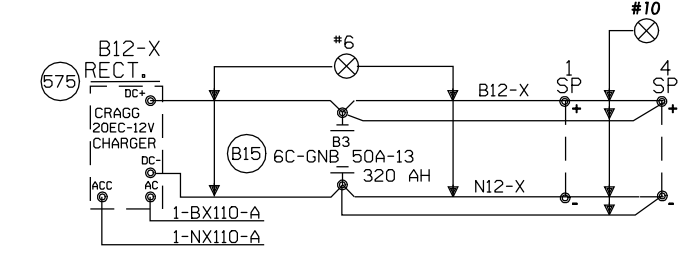
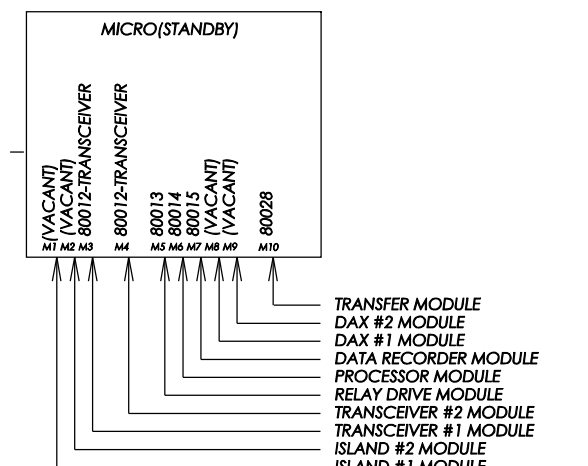
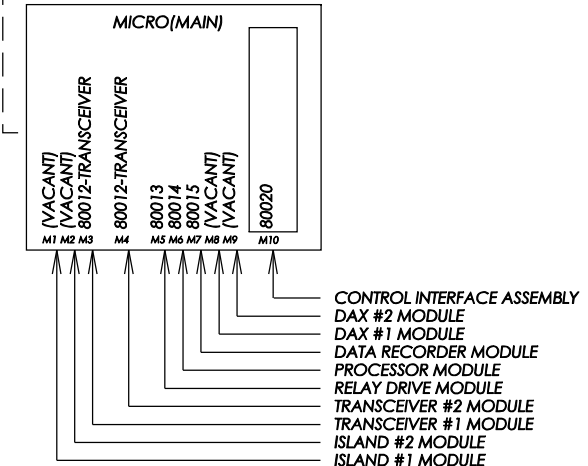
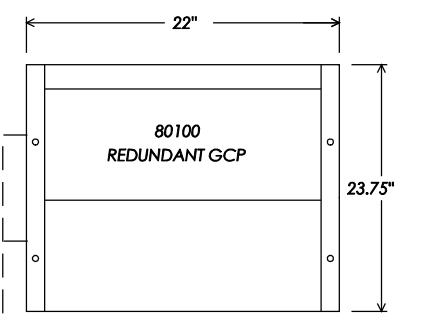
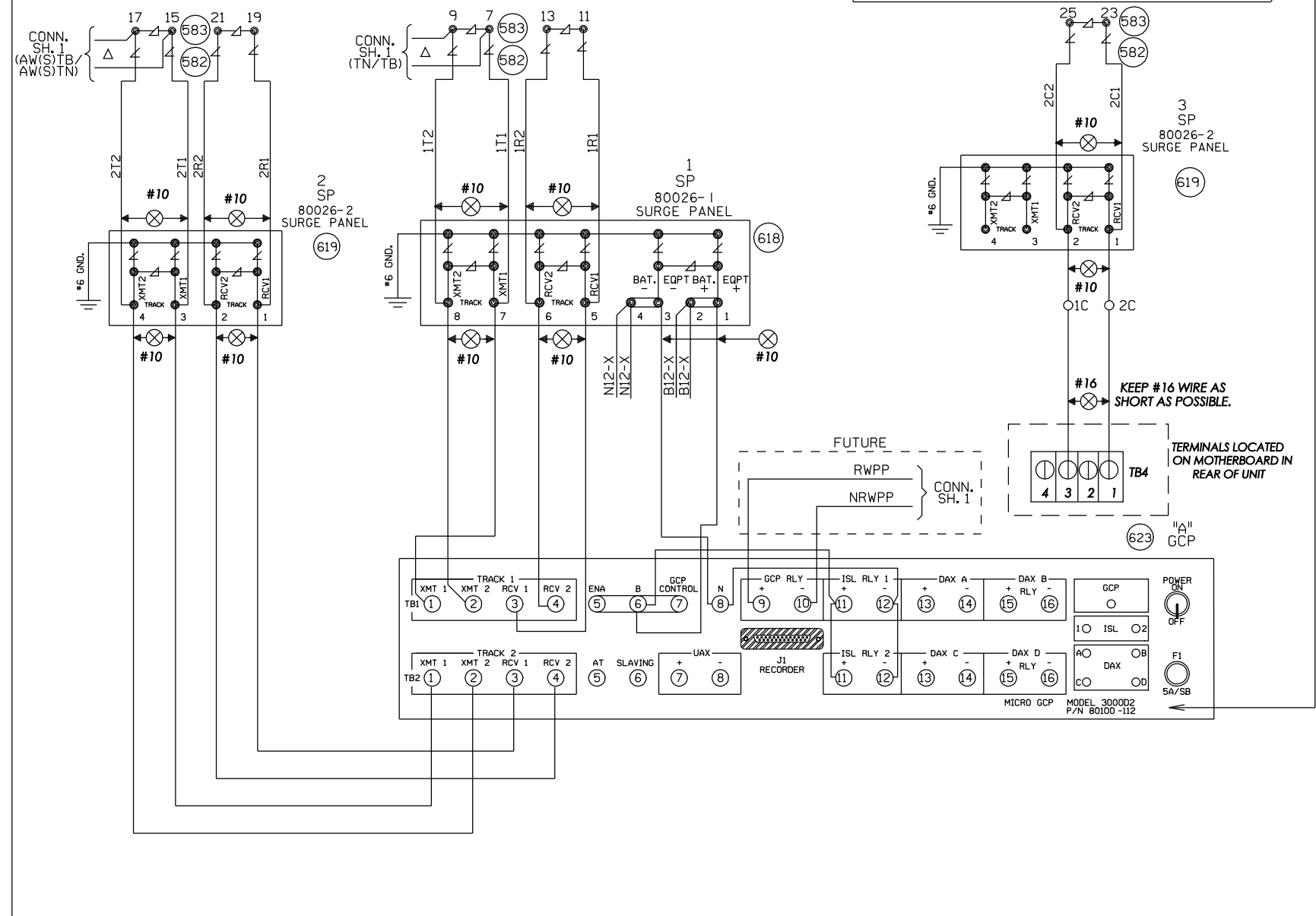
- CABLE NO.14 7C.NO.14 U.G.B.T. HOUSE TO M.P. 405.13.
- CABLE NO.15 7C.NO.14 U.G.B.T. HOUSE TO M.P. 406.14,
FUTURE

SANTA BARBARA SUBDIVISION
 OXNARD, CALIFORNIA
 E.E. OXNARD CPC0406
 SIGNALS E&W (N&S) AND
 REMOTE GCP
 M.P. 405.49
 8'x12' HOUSE

Revised: 01/21/14 UPDATED PLANS TO SHOW P.P. FOR RICE ROAD AS FUTURE PER FIELD AC. Rec#: 19114 WO#: IS: 03/18/13 DPA/NST/ /	Revised: 1-11-11 UPDATED MILE POST PER AC. Rec#: 17349 WO#: IS: 12-10-10 DPA/NST/ /	1 REV. 04-23-02 INSTALL C.T.C. FROM SEACLIFF TO MOORPARK M.P.388.60 TO M.P.426.40 A.F.E.:25206 07-31-01 DWR KAS/WITT/CTC/MDF	MODIFICATION LEVEL		CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN	DES: CTC	UNION PACIFIC RAILROAD MOORPARK, CALIFORNIA TO SAN LUIS OBISPO, CALIFORNIA C.T.C. CIRCUITS Office of AVP Engineering - Signal OMAHA NEBR.	DATE 8-18-97
			Q.A. LAST LEVEL CHK'D.	CA		DIG: CTC		SHEET 4
LAST LEVEL MOD. THIS TYP.	CA	CHK: DWR	DWG 405.49					
LAST LEVEL BY DESIGNER.	CG	A.F.E. 25206						
CHANGED FROM TYP.? Y/N	Y	ID= E40549.4S						

Δ FIELD ENSURE PROPER TRACK POLARITY AND "AC" ACCORDINGLY

THIS DRAWING WAS DESIGNED FOR A SPECIFIC APPLICATION. IF A MODIFICATION OR REDESIGN OF THIS DRAWING CAUSES ANY MODULES TO CHANGE, THE UNIT'S PART NUMBER MUST BE CHANGED TO CORRESPOND ACCORDINGLY.



NOTE: EACH TRANSMITTER TO RAIL WIRE FROM TB1-1 AND TB1-2 MUST NOT EXCEED THE MAXIMUM LENGTH SPECIFIED IN THE TABLE SHOWN BELOW. THE RECEIVER WIRE LENGTH IS NOT CRITICAL. DOES NOT APPLY TO #6 TRACK WIRE APPLICATION.

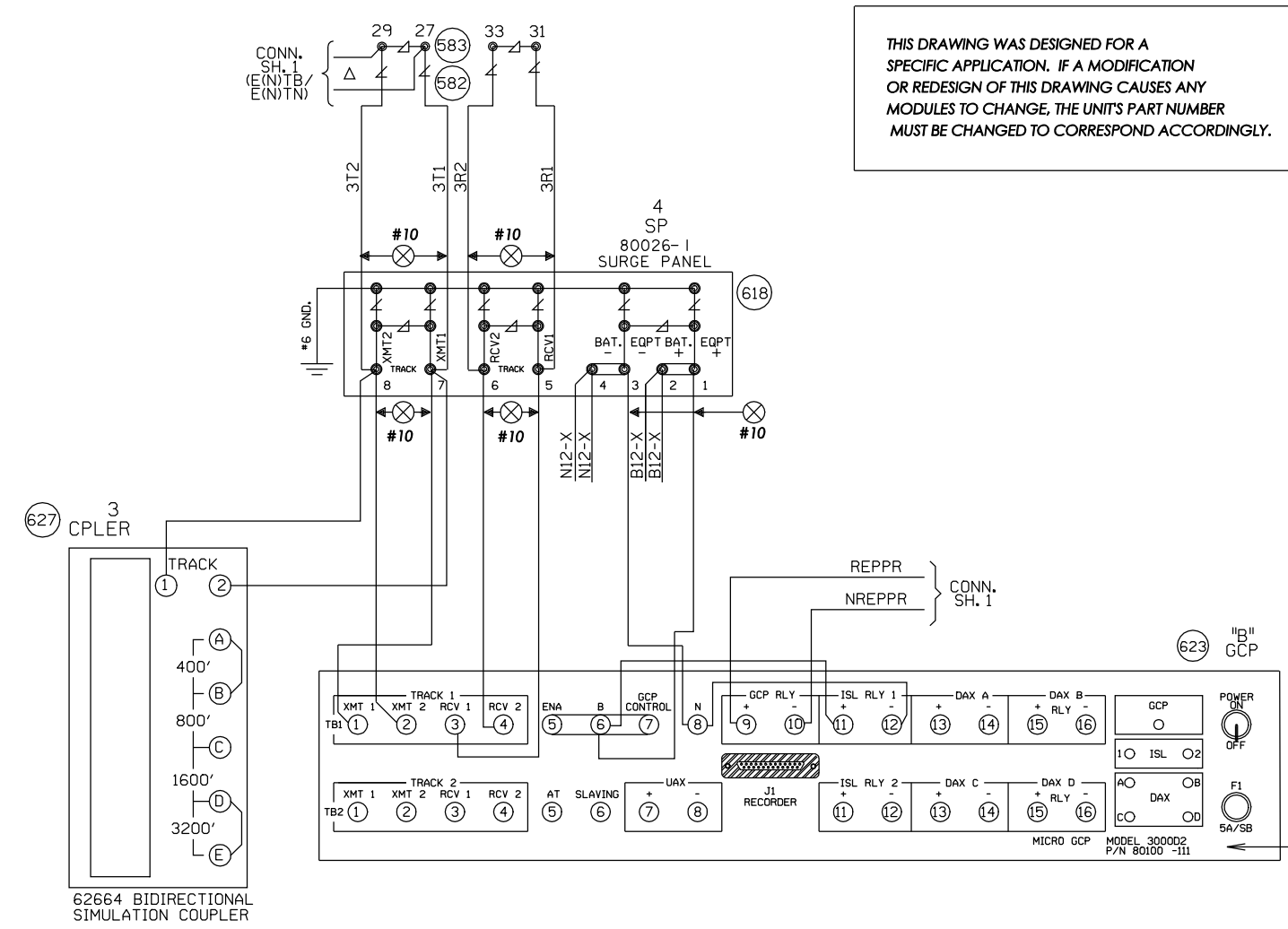
"MP" FREQUENCY (HZ)	MAXIMUM TRANSMIT WIRE LENGTH (FEET)
86	100
114	125
156	150
211	200
285-790	250

SANTA BARBARA SUBDIVISION
 OXNARD, CALIFORNIA
 E.E. OXNARD CPC0406
 SIGNALS E&W (N&S) AND
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 M.P. 405.49
 8'X12' HOUSE

Revised: 01/21/14 UPDATED PLANS TO SHOW P.P. FOR RICE ROAD AS FUTURE PER FIELD AC. Rec#: 19114 W0#: Is: 03/18/13 DPA/NST/	Revised: 1-11-11 UPDATED MILE POST PER AC. Rec#: 17349 W0#: Is: 12-10-10 DPA/NST/	1 REV. 04-23-02 INSTALL C.T.C. FROM SEACLIFF TO MOORPARK M.P.388.60 TO M.P.426.40 A.F.E.:25206 07-31-01 DWR KAS/WITT/CTC/MDF	MODIFICATION LEVEL Q.A. LAST LEVEL CHK'D. BM LAST LEVEL MOD. THIS TYP. BM LAST LEVEL BY DESIGNER. CG CHANGED FROM TYP.? Y/N Y	CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN	DES: CTC DIG: CTC CHK: DWR A.F.E. 25206 ID: E40549.5X	UNION PACIFIC RAILROAD MOORPARK, CALIFORNIA TO SAN LUIS OBISPO, CALIFORNIA C.T.C. CIRCUITS Office of AVP Engineering - Signal	DATE 8-18-97 SHEET 5 DWG 405.49 RTE E
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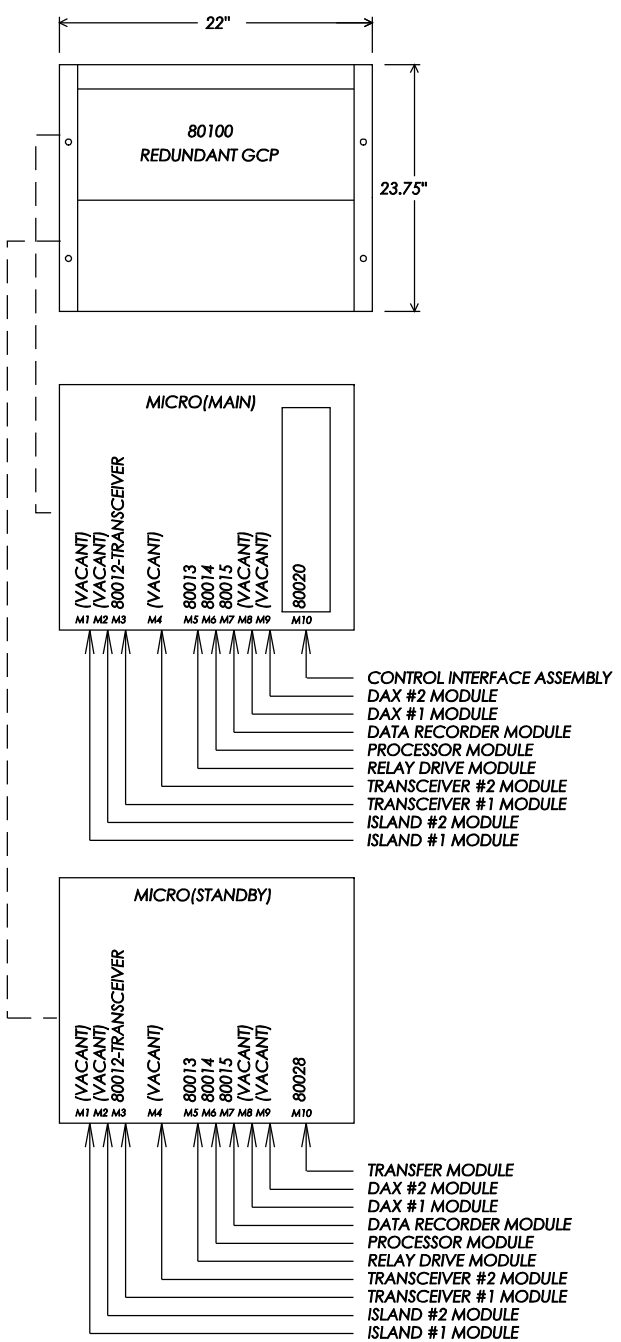
Δ FIELD ENSURE PROPER TRACK POLARITY AND "AC" ACCORDINGLY

THIS DRAWING WAS DESIGNED FOR A SPECIFIC APPLICATION. IF A MODIFICATION OR REDESIGN OF THIS DRAWING CAUSES ANY MODULES TO CHANGE, THE UNIT'S PART NUMBER MUST BE CHANGED TO CORRESPOND ACCORDINGLY.



NOTE: EACH TRANSMITTER TO RAIL WIRE FROM TB1-1 AND TB1-2 MUST NOT EXCEED THE MAXIMUM LENGTH SPECIFIED IN THE TABLE SHOWN BELOW. THE RECEIVER WIRE LENGTH IS NOT CRITICAL. DOES NOT APPLY TO #6 TRACK WIRE APPLICATION.

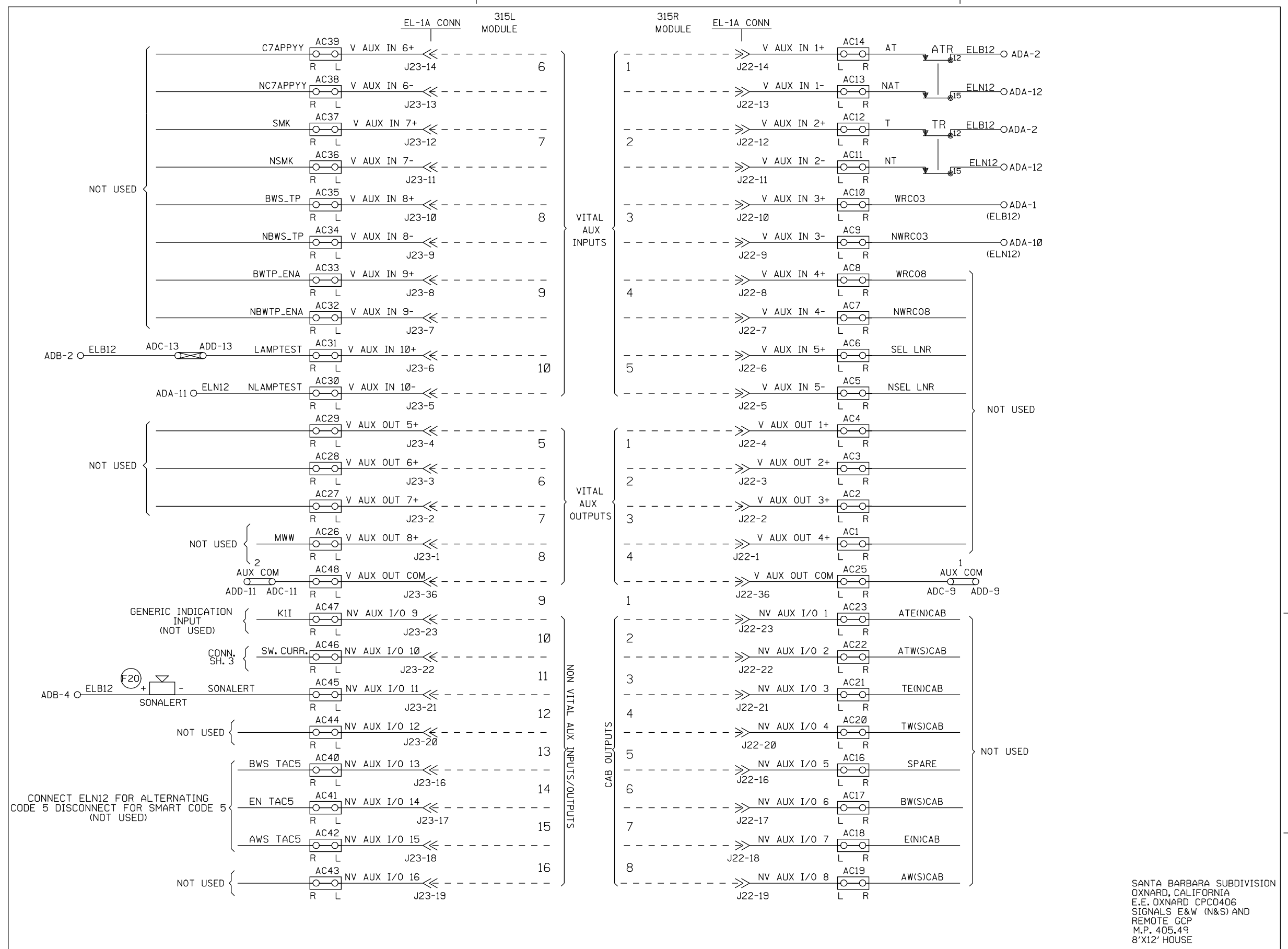
"M" FREQUENCY (HZ)	MAXIMUM TRANSMIT WIRE LENGTH (FEET)
86	100
114	125
156	150
211	200
285-790	250



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 M.P. 405.49
 8'X12' HOUSE

Revised: 1-11-11 1	REV. 04-23-02 INSTALL C.T.C. FROM SEACLIFF TO MOORPARK M.P. 388.60 TO M.P. 426.40	MODIFICATION LEVEL		CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN	DES: CTC	UNION PACIFIC RAILROAD MOORPARK, CALIFORNIA TO SAN LUIS OBISPO, CALIFORNIA C.T.C. CIRCUITS	DATE 8-18-97
		Q.A. LAST LEVEL CHK'D.	BM		DIG: CTC		SHEET 6
Rec#: 17349 Is: 12-10-10 DPA/NST/	WO#: 07-31-01 KAS/WITT/CTC/MDF	LAST LEVEL MOD. THIS TYP.	BM	CHK: DWR	A.F.E. 25206	Office of AVP Engineering - Signal	DWG 405.49
		LAST LEVEL BY DESIGNER.	CG	A.F.E. 25206	ID= E40549.6X	OMAHA NEBR.	RTE E
		CHANGED FROM TYP.? Y/N	Y				

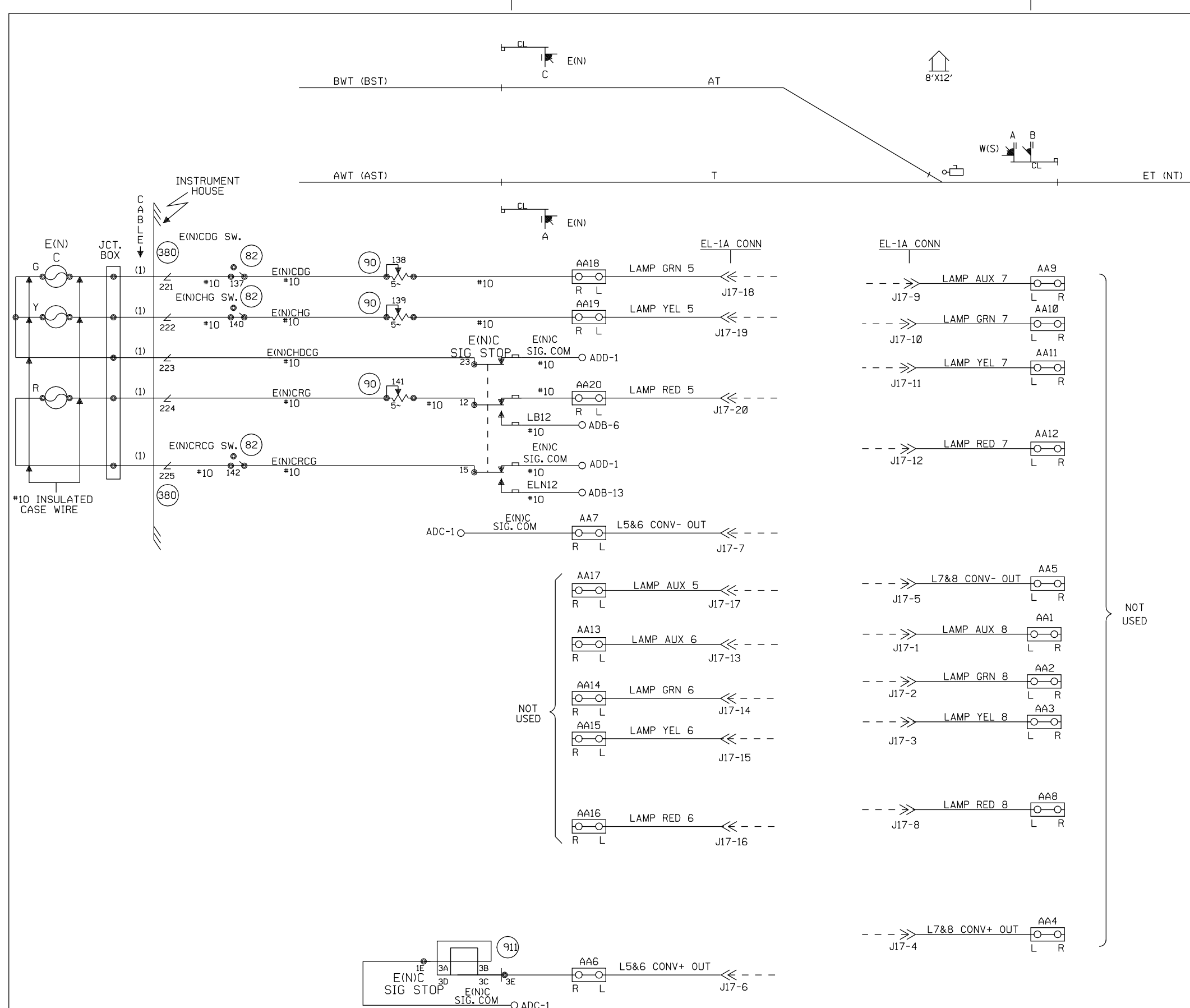
(REV. 11-11-96) (GCPRMOTE.3)



CONNECT ELN12 FOR ALTERNATING CODE 5 DISCONNECT FOR SMART CODE 5 (NOT USED)

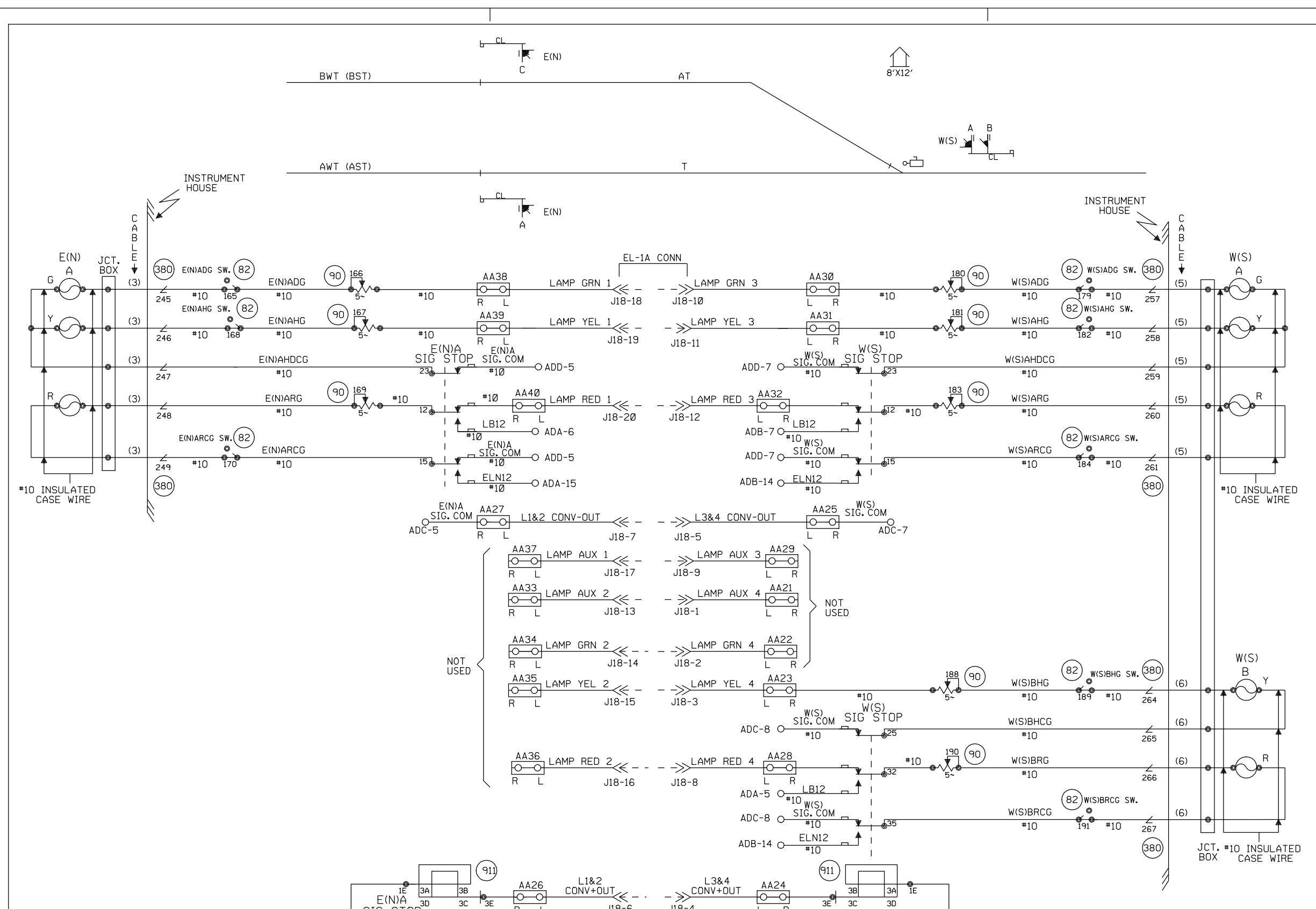
SANTA BARBARA SUBDIVISION
 OXNARD, CALIFORNIA
 E.E. OXNARD CPC0406
 SIGNALS E&W (N&S) AND
 REMOTE GCP
 M.P. 405.49
 8'X12' HOUSE

Revised: 1-11-11 UPDATED MILE POST PER AC.	1	REV. 04-23-02 INSTALL C.T.C. FROM SEACLIFF TO MOORPARK M.P. 388.60 TO M.P. 426.40	MODIFICATION LEVEL		CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN	DES: CTC DIG: CTC CHK: DWR A.F.E. 25206 ID= E40549.75	UNION PACIFIC RAILROAD MOORPARK, CALIFORNIA TO SAN LUIS OBISPO, CALIFORNIA C.T.C. CIRCUITS Office of AVP Engineering - Signal	DATE 8-18-97
			Q.A. LAST LEVEL CHK'D.	CA				SHEET 7
Rec'd: 17349 WOP: 12-10-10 DPA/NST/		A.F.E. 25206 07-31-01 KAS/WITT/CTC/MDF	LAST LEVEL MOD. THIS TYP.	CA	CHANGED FROM TYP.? Y/N	Y	DWG 405.49	RTE E
			LAST LEVEL BY DESIGNER.	CG				



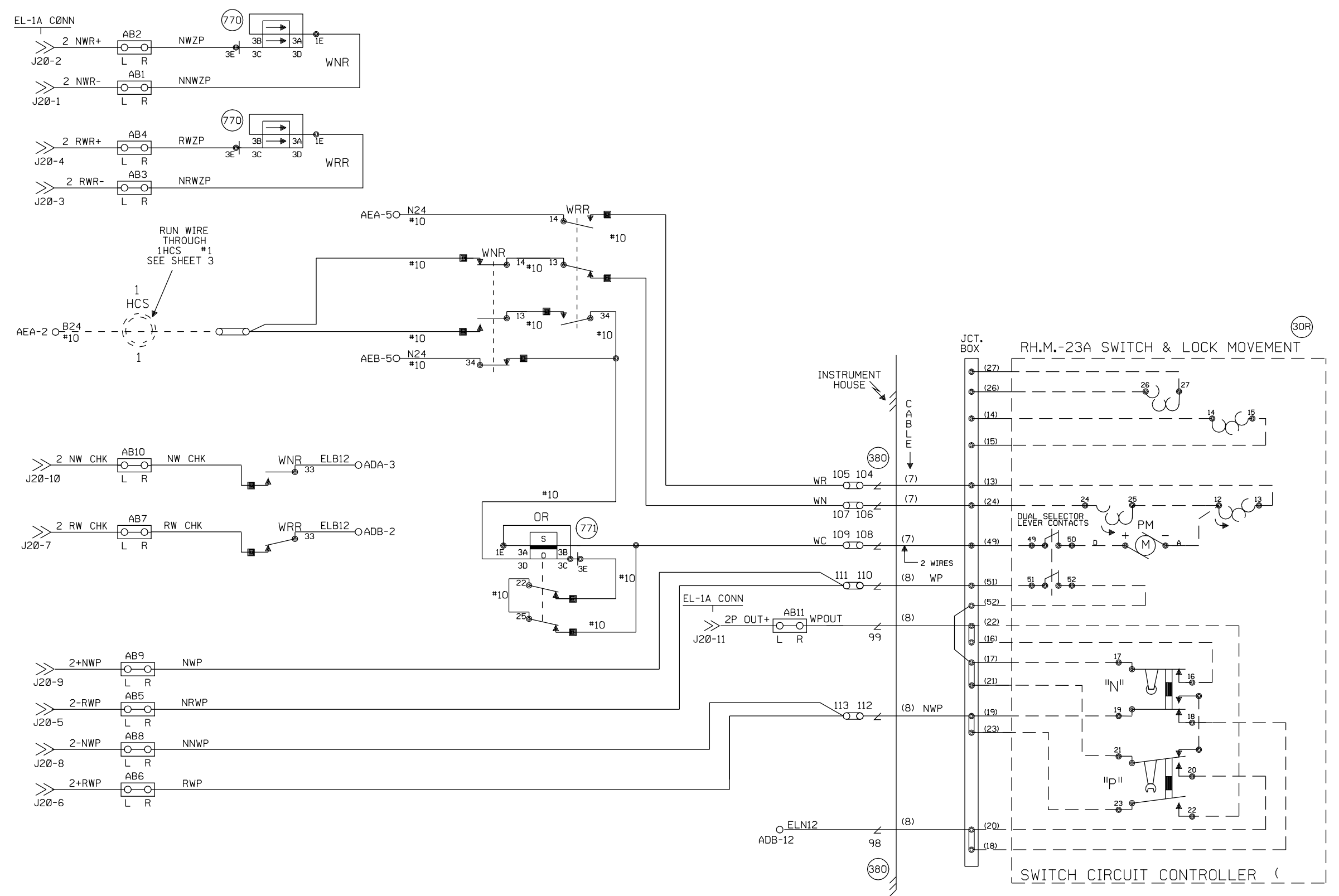
SANTA BARBARA SUBDIVISION
 OXNARD, CALIFORNIA
 E.E. OXNARD CPC0406
 SIGNALS E&W (N&S) AND
 REMOTE GCP
 M.P. 405.49
 8'X12' HOUSE

Revised: 1-11-11 UPDATED MILE POST PER AC. Rec#: 17349 WOP: IS: 12-10-10 DPA/NST/	1 REV. 04-23-02 INSTALL C.T.C. FROM SEALIFF TO MOORPARK M.P. 388.60 TO M.P. 426.40 A.F.E.: 25206 07-31-01 DWR KAS/WITT/CTC/MDF	MODIFICATION LEVEL Q.A. LAST LEVEL CHK'D. CA LAST LEVEL MOD. THIS TYP. CA LAST LEVEL BY DESIGNER. CG CHANGED FROM TYP.? Y/N Y		CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN	DES: CTC DIG: CTC CHK: DWR A.F.E. 25206 ID: E40549.85	UNION PACIFIC RAILROAD MOORPARK, CALIFORNIA TO SAN LUIS OBISPO, CALIFORNIA C.T.C. CIRCUITS Office of AVP Engineering - Signal	DATE 8-18-97 SHEET 8 DWG 405.49 RTE E
		(REV. 8/29/97) (X)ELOGEOS.5			OMAHA NEBR.		



SANTA BARBARA SUBDIVISION
 OXNARD, CALIFORNIA
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 SIGNALS E&W (N&S) AND
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 M.P. 405.49
 8'X12' HOUSE

Revised: 1-11-11 UPDATED MILE POST PER AC.	1 REV. 04-23-02 INSTALL C.T.C. FROM SEALIFF TO MOORPARK M.P. 388.60 TO M.P. 426.40	MODIFICATION LEVEL		CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN	DES: CTC	UNION PACIFIC RAILROAD MOORPARK, CALIFORNIA TO SAN LUIS OBISPO, CALIFORNIA C.T.C. CIRCUITS Office of AVP Engineering - Signal	DATE 8-18-97
		Q.A. LAST LEVEL CHK'D.	CA		DIG: CTC		SHEET 9
Rec'd: 17349 WDP: 12-10-10 DPA/NST/	A.F.E.: 25206 07-31-01 DWR KAS/WITT/CTC/MDF	LAST LEVEL MOD. THIS TYP.	CA	DESIGNED BY: DWR	CHK: DWR	DWG 405.49 RTE E	
		LAST LEVEL BY DESIGNER.	CG		CHANGED FROM TYP.? Y/N		
					ID: E40549.95	OMAHA NEBR.	



SANTA BARBARA SUBDIVISION
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 M.P. 405.49
 8'X12' HOUSE

ALL WIRING #16 UNLESS OTHERWISE NOTED

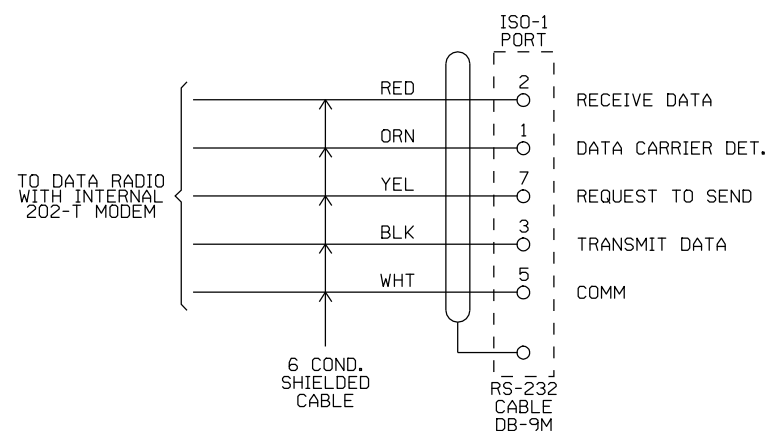
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		INSTALL C.T.C. FROM SEACLIFF TO MOORPARK M.P. 388.60 TO M.P. 426.40	Q.A. LAST LEVEL CHK'D.	CA		DIG: CTC		SHEET 10
A.F.E. 25206	LAST LEVEL MOD. THIS TYP.	CA	CHK: DWR	DWG 405.49				
07-31-01 DWR	LAST LEVEL BY DESIGNER.	CG	A.F.E. 25206					
KAS/WITT/CTC/MDF	CHANGED FROM TYP.? Y/N	Y	ID= E40549.10S	RTE E				

(REV. 8/29/97) (ELOGE05.7)

	0	1	2	3	4	5	6	7
CONTROL WORD 1	NWZ	RWZ	AW(S) BLZ	E(N) BLZ	E(N) GZ	W(S) GZ	MCZ	SP
CONTROL WORD 2	SP	TESTZ	BW(S) BLZ	SP	CO GZ	SP	SP	SP

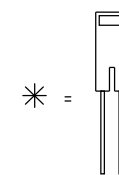
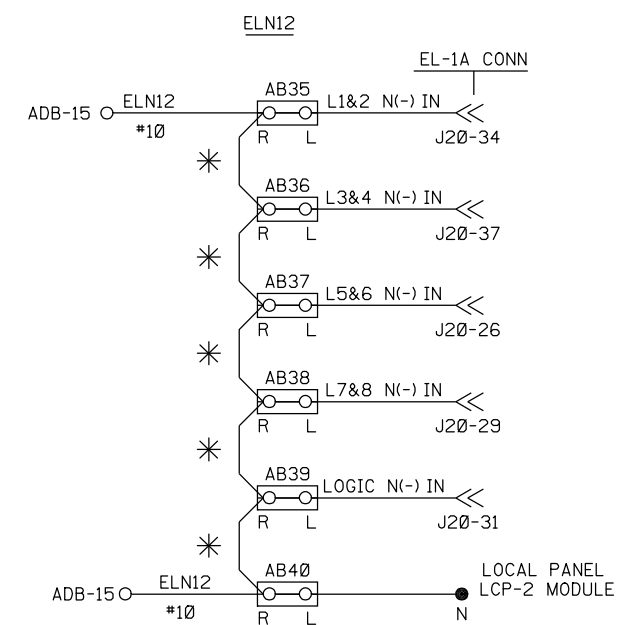
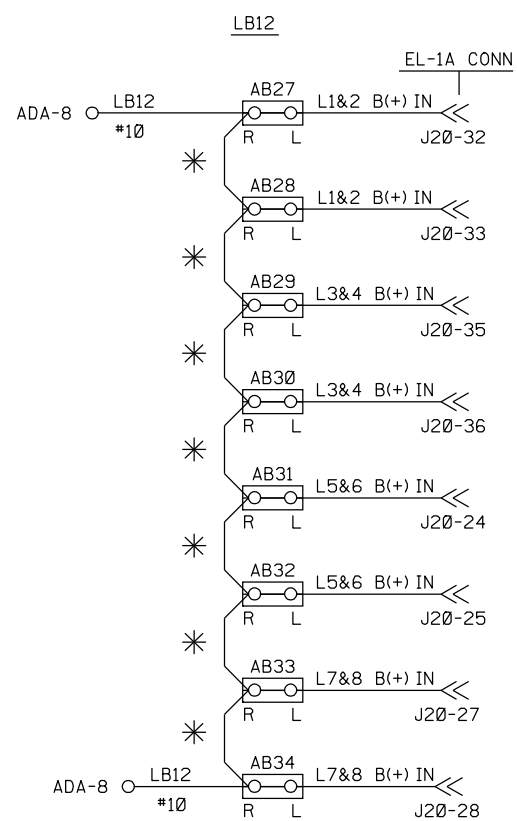
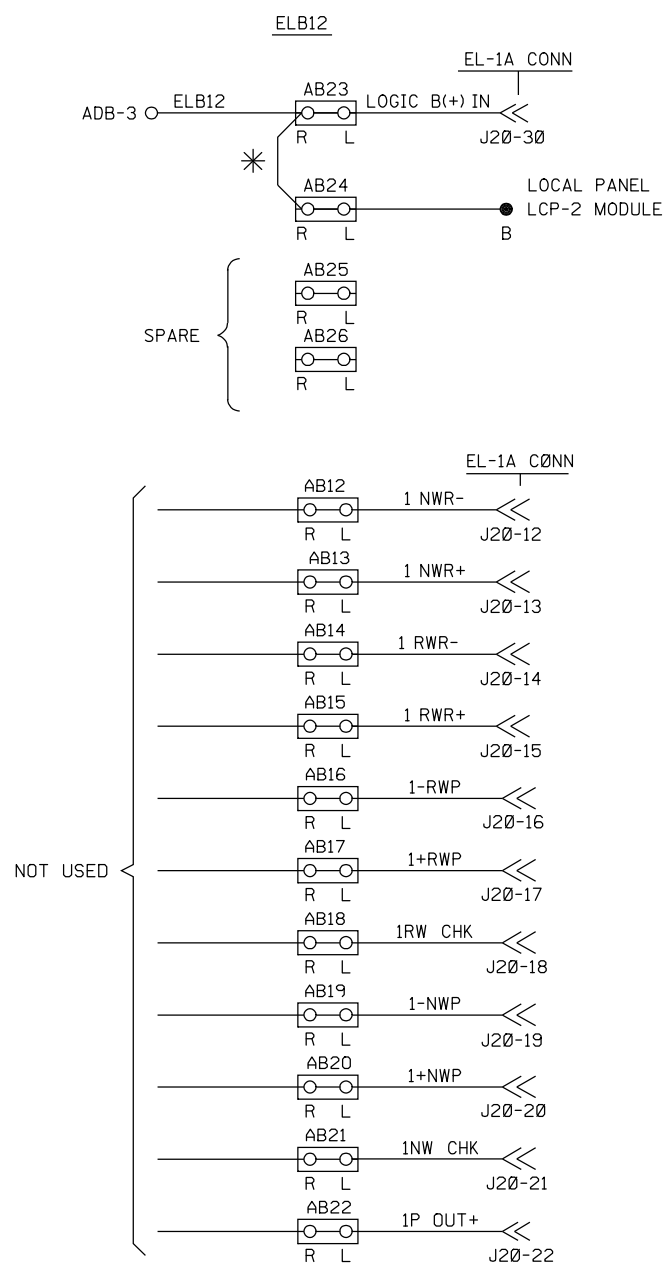
	0	1	2	3	4	5	6	7
INDICATION WORD 1	SP	SP	SP	SP	AW(S) BLK	E(N) BLK	NWK	RWK
INDICATION WORD 2	E(N) GK	W(S) GK	TK	SP	AW(S) TK	E(N) AK	BW(S) TK	POK
INDICATION WORD 3	SP	SW CURR	TESTK	BW(S) BLK	SP	LOK	EL1AK	SP

SCS-128 PROTOCOL



SANTA BARBARA SUBDIVISION
 OXNARD, CALIFORNIA
 E.E. OXNARD CPC0406
 SIGNALS E&W (N&S) AND
 REMOTE GCP
 M.P. 405.49
 8'X12' HOUSE

Revised: 1-11-11 UPDATED MILE POST PER AC. Rec#: 17349 WOP: ISI 12-10-10 DPA/NST/ /	1 REV. 04-23-02 INSTALL C.T.C. FROM SEACLIFF TO MOORPARK M.P. 388.60 TO M.P. 426.40 A.F.E.: 25206 07-31-01 DWR KAS/WITT/CTC/MDF	MODIFICATION LEVEL		CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN	DES: CTC	UNION PACIFIC RAILROAD MOORPARK, CALIFORNIA TO SAN LUIS OBISPO, CALIFORNIA C.T.C. CIRCUITS Office of AVP Engineering - Signal OMAHA NEBR.	DATE 8-18-97
		Q.A. LAST LEVEL CHK'D.	CF		DIG: CTC		SHEET 11
LAST LEVEL MOD. THIS TYP.	CF	CHK: DWR	DWG 405.49				
LAST LEVEL BY DESIGNER.	CG	A.F.E. 25206					
		CHANGED FROM TYP.? Y/N	Y	ID= E40549.115		RTE E	

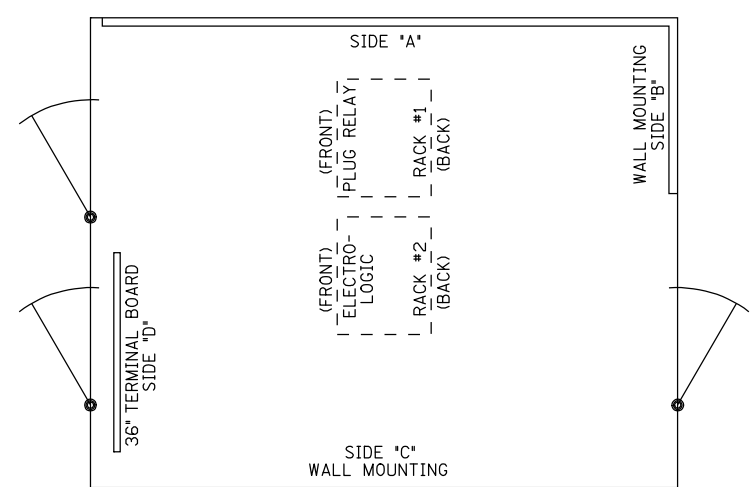


* = WAGO HORIZONTAL JUMPER

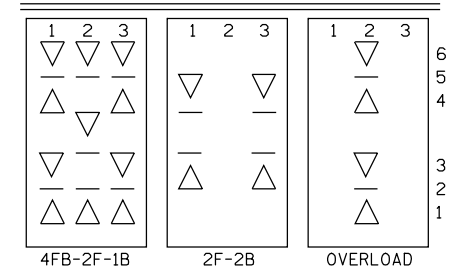
SANTA BARBARA SUBDIVISION
 OXNARD, CALIFORNIA
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 SIGNALS E&W (N&S) AND
 REMOTE GCP
 M.P. 405.49
 8'X12' HOUSE

Revised: 1-11-11 UPDATED MILE POST PER AC.	1 INSTALL C.T.C. FROM SEACLIFF TO MOORPARK M.P. 388.60 TO M.P. 426.40	MODIFICATION LEVEL		CIRCuits MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN	DES: CTC	UNION PACIFIC RAILROAD MOORPARK, CALIFORNIA TO SAN LUIS OBISPO, CALIFORNIA C.T.C. CIRCUITS Office of AVP Engineering - Signal	DATE 8-18-97
		Q.A. LAST LEVEL CHK'D.	CA		DIG: CTC		SHEET 12
LAST LEVEL MOD. THIS TYP.	CA	CHK: DWR	DWG 405.49				
LAST LEVEL BY DESIGNER.	CG	A.F.E. 25206					
CHANGED FROM TYP.? Y/N	N	ID= E40549.125	RTE E				

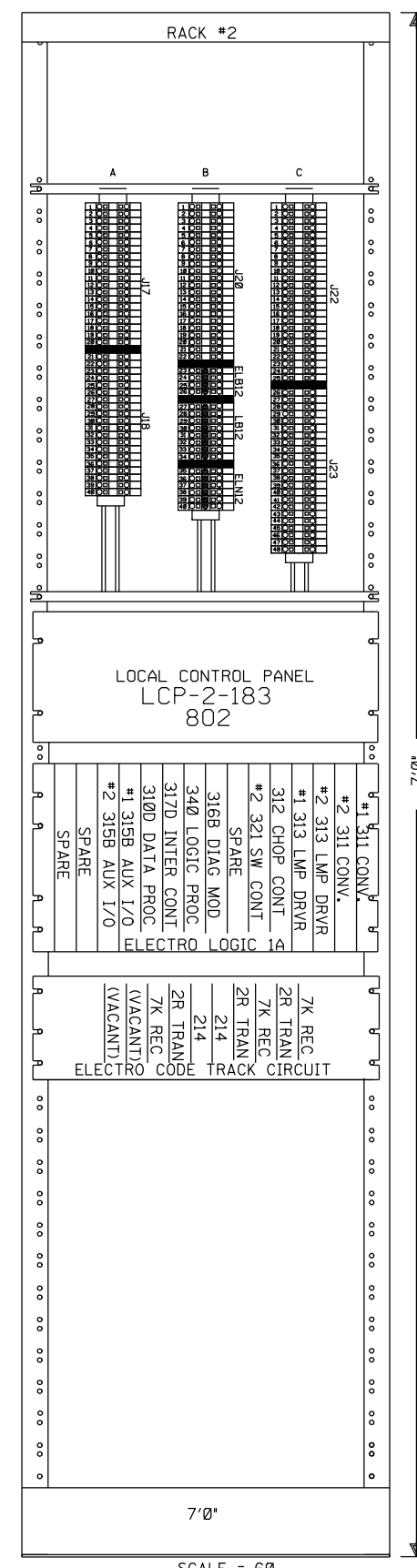
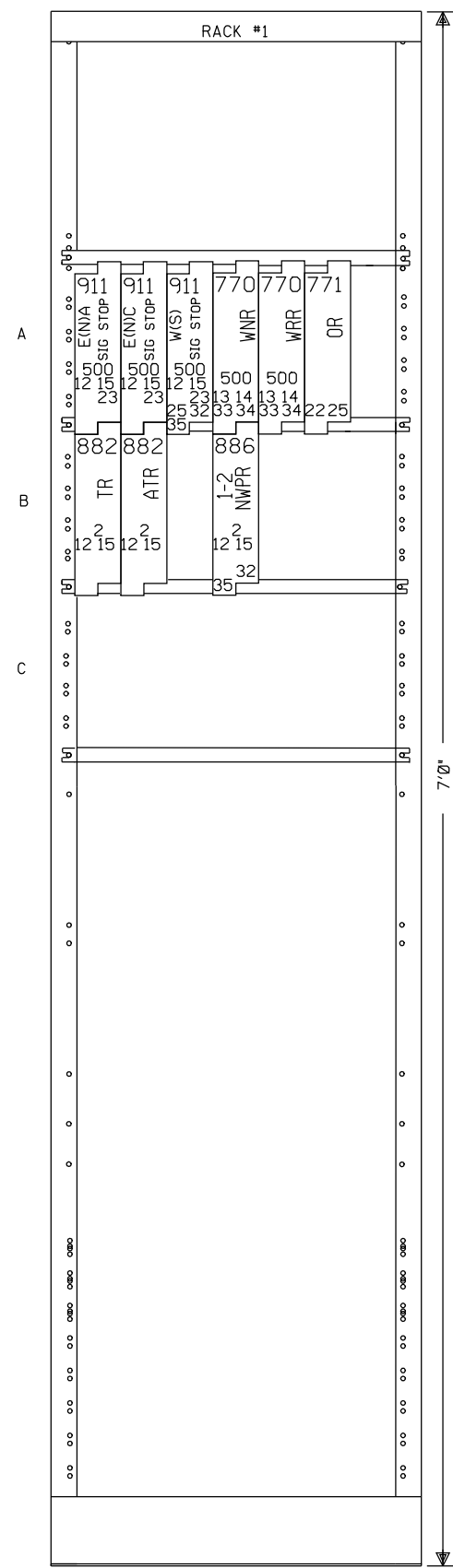
PLAN VIEW
8'x12' HOUSE
-NO SCALE-



TYPICAL CONTACT CONFIGURATIONS FOR PLUG-IN RELAYS



LEGEND
 — = CONTACT HEEL
 ▽ = CONTACT FRONT
 △ = CONTACT BACK



SONALERT MOUNTED ON BACK OF LCP PANEL

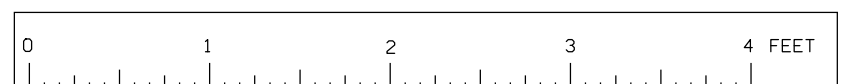
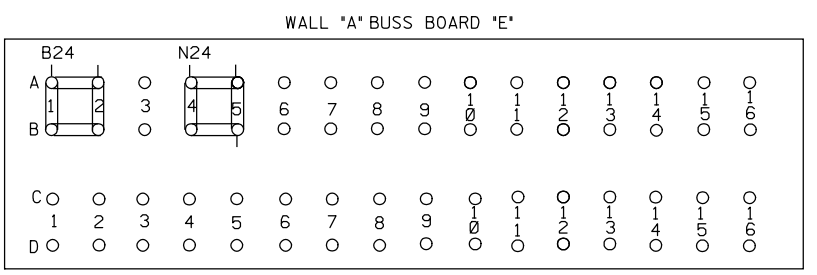
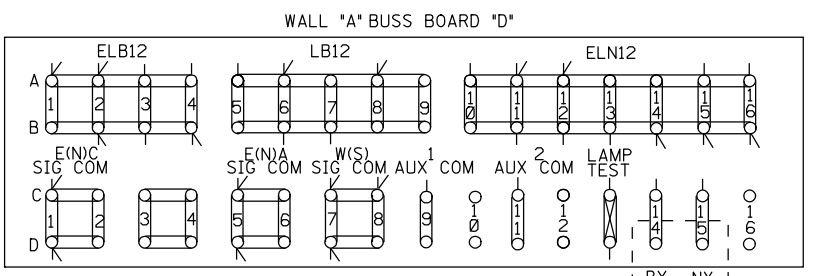
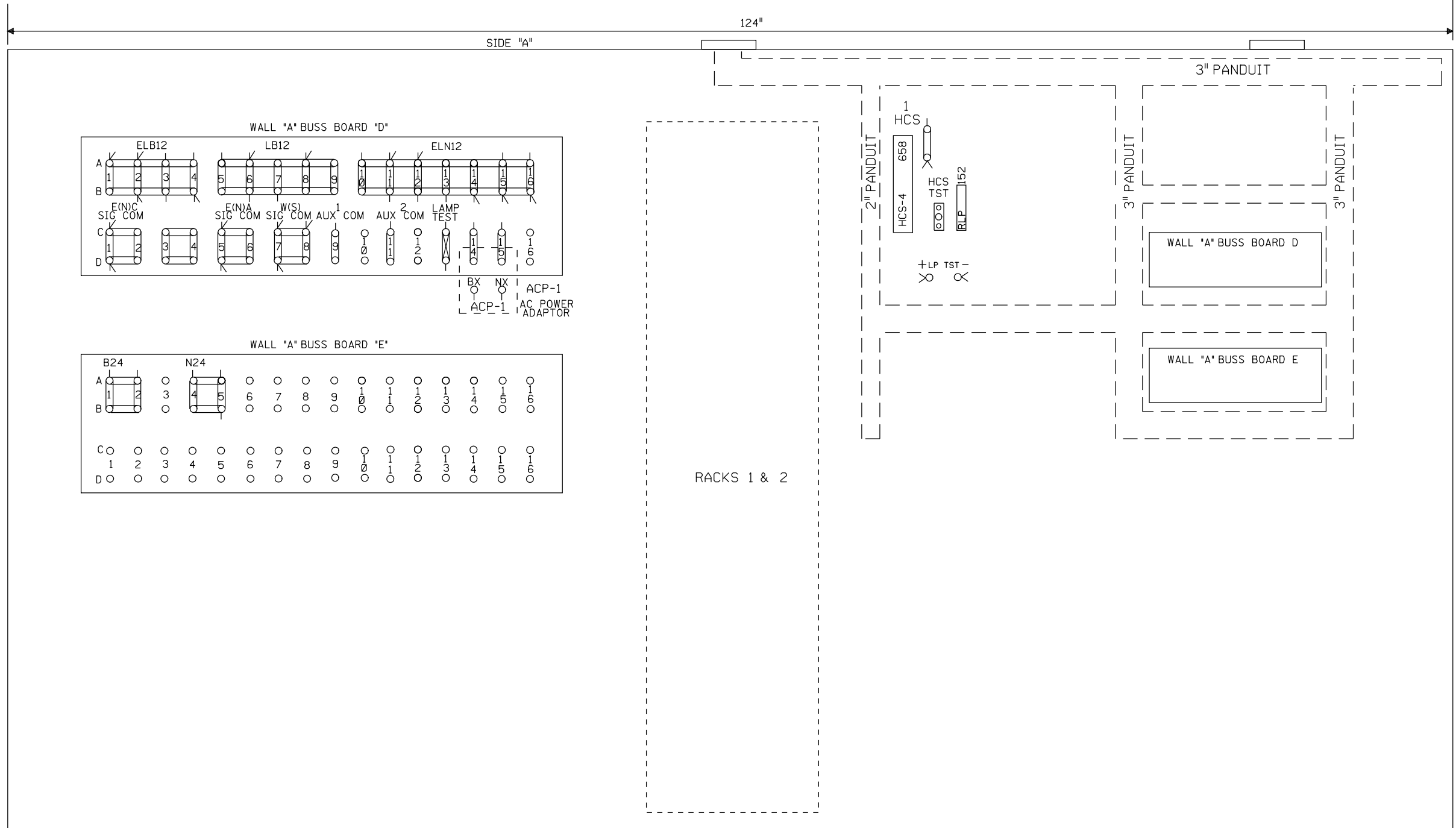
EL-1A 801

1-2ELTK 800

SCALE = 60

SANTA BARBARA SUBDIVISION
 OXNARD, CALIFORNIA
 E.E. OXNARD CPC0406
 SIGNALS E&W (N&S) AND
 REMOTE GCP
 M.P. 405.49
 8'X12' HOUSE

Revised: 12/14/11 REPLACED 310D CARD WITH 340 CARD PER FIELD AC. Rec#: 18149 W0#: 10325 IS: 11/23/11 AJB/WIT/	Revised: 1-11-11 UPDATED MILE POST PER AC. Rec#: 17349 W0#: 12-10-10 DPA/NST/	1 REV. 04-23-02 INSTALL C.T.C. FROM SEACLIFF TO MOORPARK M.P. 388.60 TO M.P. 426.40 A.F.E.: 25206 07-31-01 DWR KAS/WITT/CTC/MDF	MODIFICATION LEVEL Q.A. LAST LEVEL CHK'D. CA LAST LEVEL MOD. THIS TYP. CA LAST LEVEL BY DESIGNER. CG CHANGED FROM TYP.? Y/N Y	CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN	DES: CTC DIG: CTC CHK: DWR A.F.E. 25206 ID= E40549.13S	UNION PACIFIC RAILROAD MOORPARK, CALIFORNIA TO SAN LUIS OBISPO, CALIFORNIA C.T.C. CIRCUITS Office of AVP Engineering - Signal OMAHA NEBR.	DATE 8-18-97 SHEET 13 DWG 405.49 RTE E
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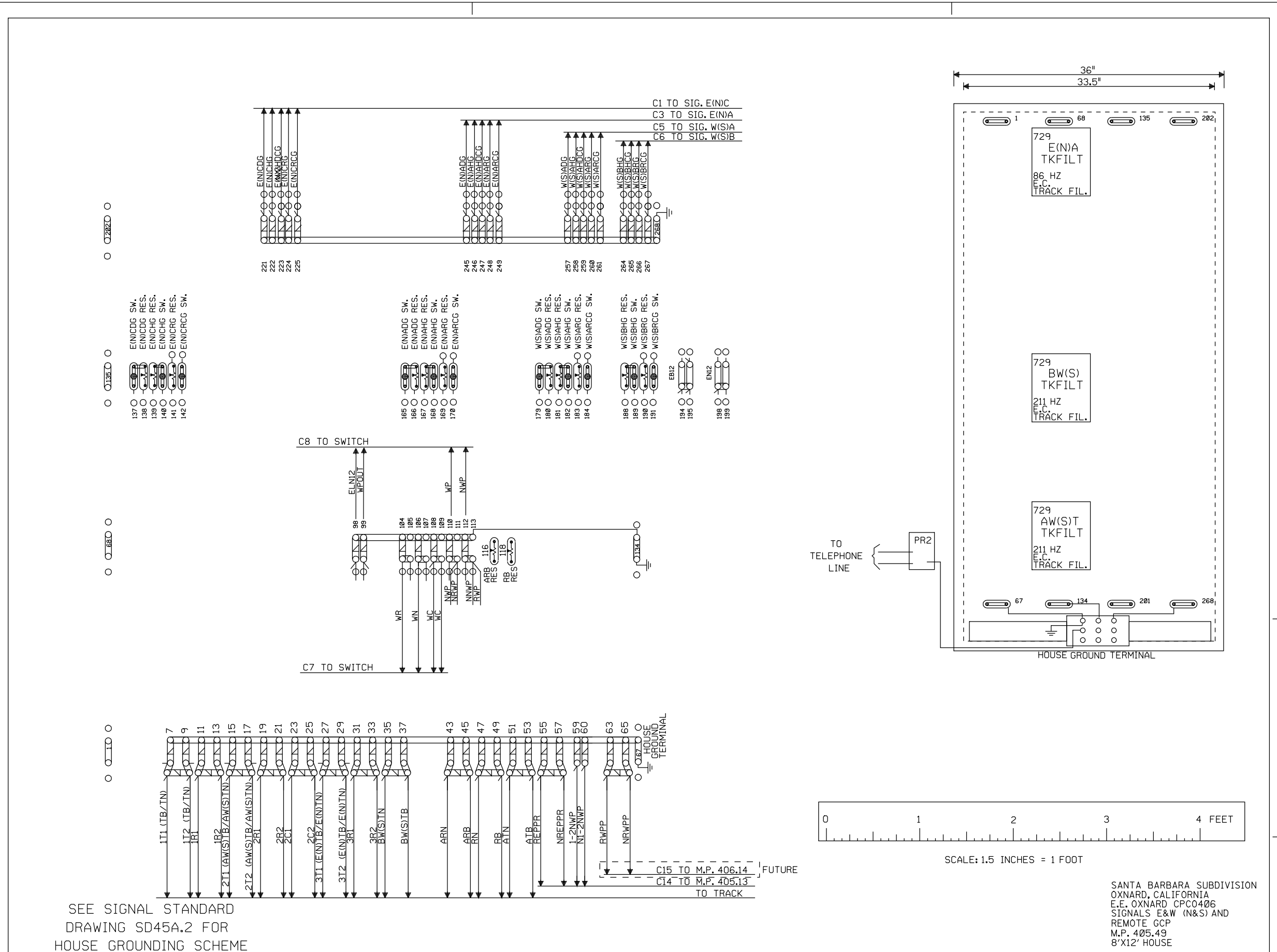


SCALE: 1.5 INCHES = 1 FOOT

SANTA BARBARA SUBDIVISION
 OXNARD, CALIFORNIA
 E.E. OXNARD CPC0406
 SIGNALS E&W (N&S) AND
 REMOTE GCP
 M.P. 405.49
 8'X12' HOUSE

Revised: 1-11-11 UPDATED MILE POST PER AC. Reo: 17349 W0: IS: 12-10-10 DPA/NST/	1 REV. 04-23-02 INSTALL C.T.C. FROM SEA CLIFF TO MOORPARK M.P. 388.60 TO M.P. 426.40 A.F.E.: 25206 07-31-01 DWR KAS/WITT/CTC/MDF	MODIFICATION LEVEL		CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN	DES: CTC	UNION PACIFIC RAILROAD MOORPARK, CALIFORNIA TO SAN LUIS OBISPO, CALIFORNIA C.T.C. CIRCUITS Office of AVP Engineering - Signal OMAHA NEBR.	DATE 8-18-97
		Q.A. LAST LEVEL CHK'D.	CA		DIG: CTC		SHEET 14
		LAST LEVEL MOD. THIS TYP.	CA		CHK: DWR		DWG 405.49
		LAST LEVEL BY DESIGNER.	CG		A.F.E. 25206		
CHANGED FROM TYP.? Y/N		Y	ID= E40549.14S	RTE E			

(REV. 8/29/97) (ELOGEOS.11)

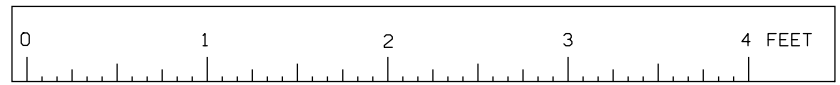
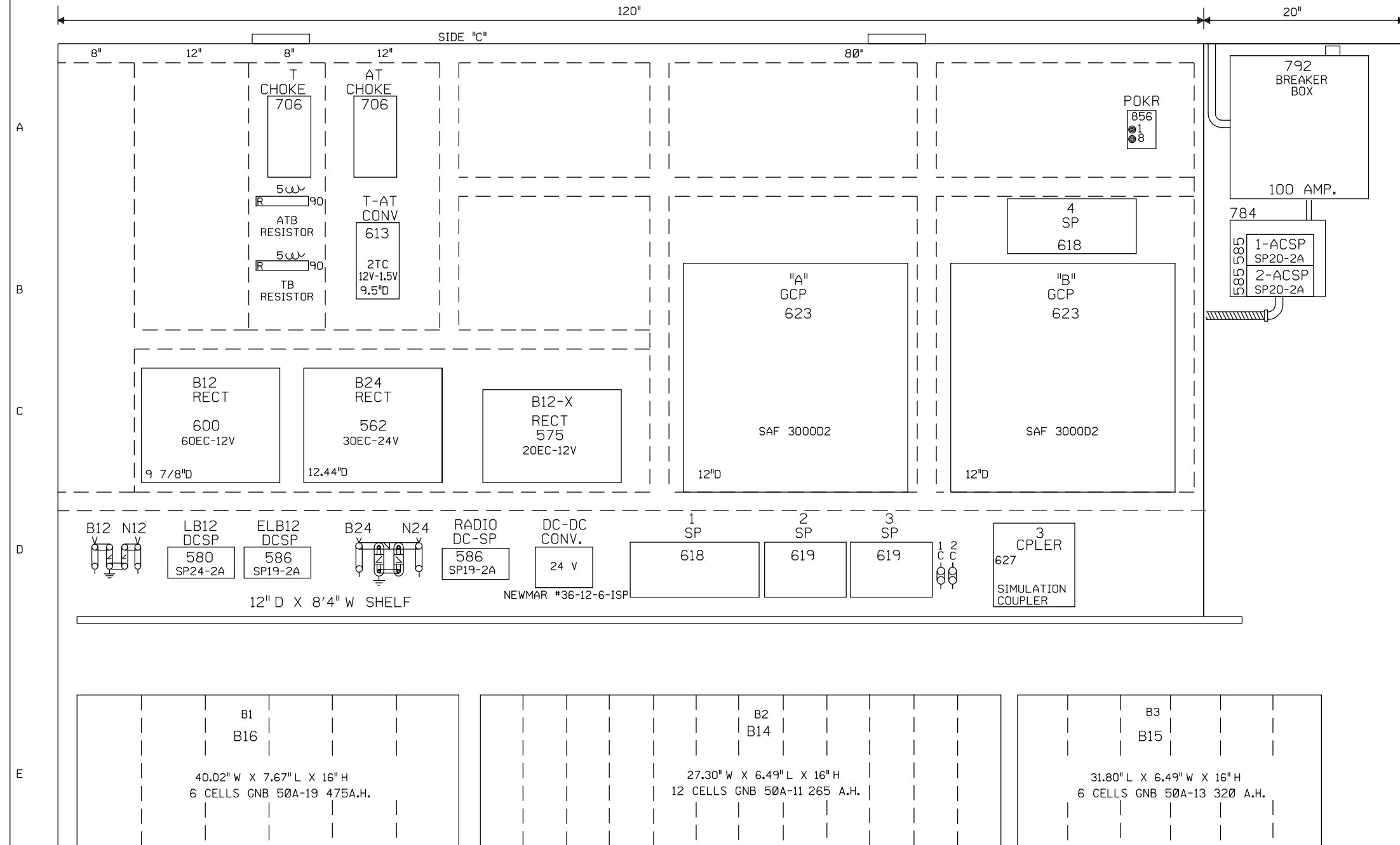


SEE SIGNAL STANDARD
DRAWING SD45A.2 FOR
HOUSE GROUNDING SCHEME

Revised: 01/21/14 UPDATED PLANS TO SHOW R.P. FOR RICE ROAD AS FUTURE PER FIELD AC. Rec#: 19114 W0#: 15: 03/18/13 DPA/NST/	Revised: 1-11-11 UPDATED MILE POST PER AC. Rec#: 17349 W0#: 15: 12-10-10 DPA/NST/	2 REV. 04-23-02 RELOCATE #14 TURNOUT AT W.E. OXNARD, CA. M.P. 407.29. A.F.E.: 25207 07-31-01 WCL KAS/WITT/CTC/GWS	1 REV. 04-23-02 INSTALL C.T.C. FROM SEARLIFF TO MOORPARK M.P. 388.60 TO M.P. 426.40 A.F.E.: 25206 07-31-01 DWR KAS/WITT/CTC/MDF	<table border="1"> <tr><th colspan="2">MODIFICATION LEVEL</th></tr> <tr><td>Q.A. LAST LEVEL CHK'D.</td><td>CA</td></tr> <tr><td>LAST LEVEL MOD. THIS TYP.</td><td>CA</td></tr> <tr><td>LAST LEVEL BY DESIGNER.</td><td>CG</td></tr> <tr><td>CHANGED FROM TYP.? Y/N</td><td>Y</td></tr> </table>	MODIFICATION LEVEL		Q.A. LAST LEVEL CHK'D.	CA	LAST LEVEL MOD. THIS TYP.	CA	LAST LEVEL BY DESIGNER.	CG	CHANGED FROM TYP.? Y/N	Y	CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN	DES: CTC DIG: CTC CHK: DWR A.F.E. 25206 ID= E40549.15S	UNION PACIFIC RAILROAD MOORPARK, CALIFORNIA TO SAN LUIS OBISPO, CALIFORNIA C.T.C. CIRCUITS Office of AVP Engineering - Signal	DATE 8-18-97 SHEET 15 DWG 405.49 RTE E
MODIFICATION LEVEL																		
Q.A. LAST LEVEL CHK'D.	CA																	
LAST LEVEL MOD. THIS TYP.	CA																	
LAST LEVEL BY DESIGNER.	CG																	
CHANGED FROM TYP.? Y/N	Y																	

(REV. 8/29/97) (ELOGEOS.12)

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E.E. OXNARD CPC0406
SIGNALS E&W (N&S) AND
REMOTE GCP
M.P. 405.49
8'X12' HOUSE

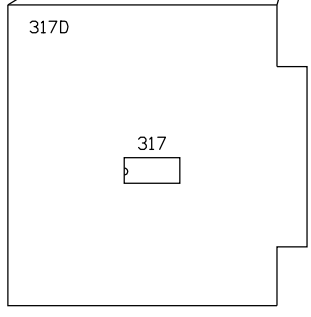
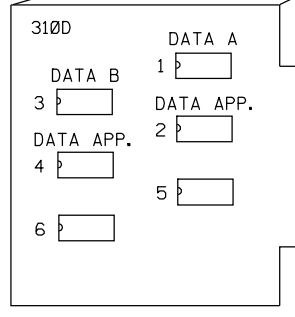
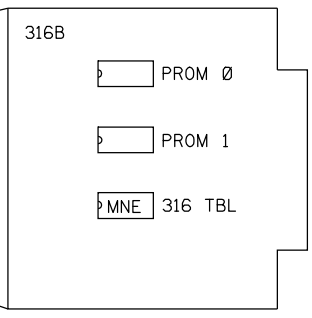
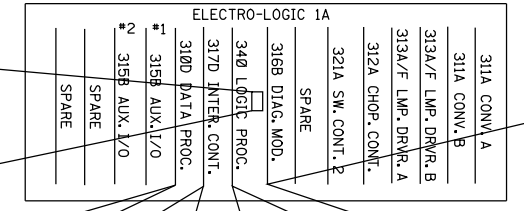
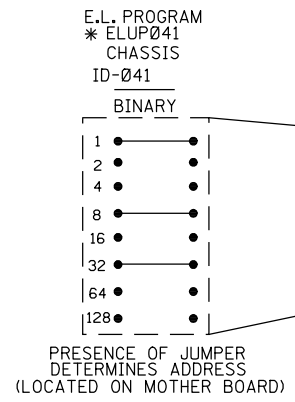


SCALE: 1.5 INCHES = 1 FOOT

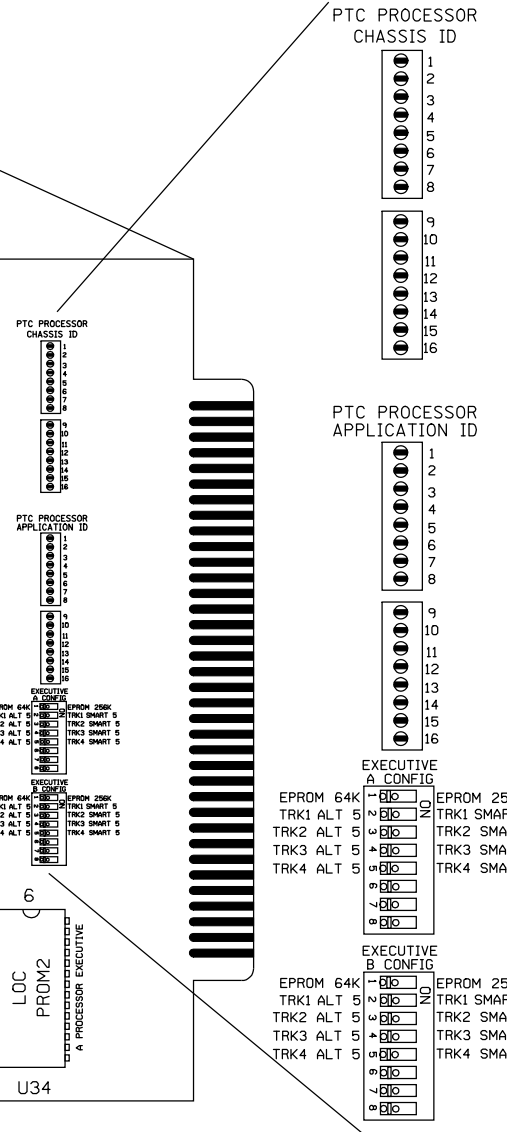
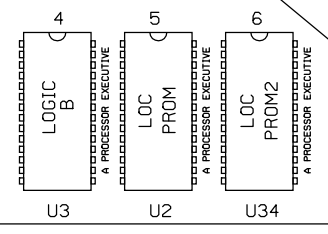
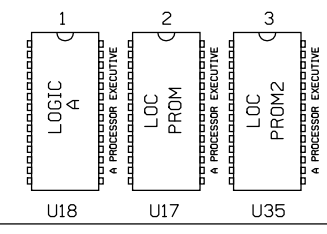
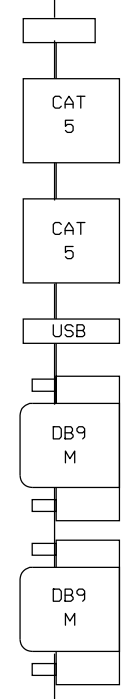
SANTA BARBARA SUBDIVISION
OXNARD, CALIFORNIA
E.E. OXNARD CPC0406
SIGNALS E&W (N&S) AND
REMOTE GCP
M.P. 405.49
8'X12' HOUSE

Rec#: 17349 Iss: 12-10-10 DPA/NST/ /	Revised: 1-11-11 UPDATED MILE POST PER AC.	1 REV. 04-23-02 INSTALL C.T.C. FROM SEACLIFF TO MOORPARK M.P. 388.60 TO M.P. 426.40	MODIFICATION LEVEL Q.A. LAST LEVEL CHK'D. CA LAST LEVEL MOD. THIS TYP. CA LAST LEVEL BY DESIGNER. CG CHANGED FROM TYP.? Y/N Y	CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN	DES: CTC DIG: CTC CHK: DWR A.F.E. 25206 ID= E40549.16S	UNION PACIFIC RAILROAD MOORPARK, CALIFORNIA TO SAN LUIS OBISPO, CALIFORNIA C.T.C. CIRCUITS Office of AVP Engineering - Signal OMAHA NEBR.	DATE 8-18-97 SHEET 16 DWG 405.49 RTE E

(REV. 8/29/97) (ELOGEOS.13)



	CHKSUM	CRC	REV LEVEL
DATA A	D036	3627	F
DATA B	37EC	0875	F
(2EA) DATA APP	1F32	5B3F	NC
317	9FC5	C4C8	A
LOGIC A			
LOGIC B			
* (2EA) LOC PROM	F5BA	2BE7	A * ELUP041H.MAP
** (OPTIONAL) (2EA) DATA APP			* EL .MAP
316 PROM 0	9C4F	E034	01
316 PROM 1	D9F1	C7B7	01
* 316 TBL	154C	5E15	* ELUP041H.MNE



NOTE:

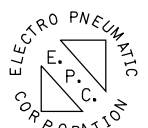
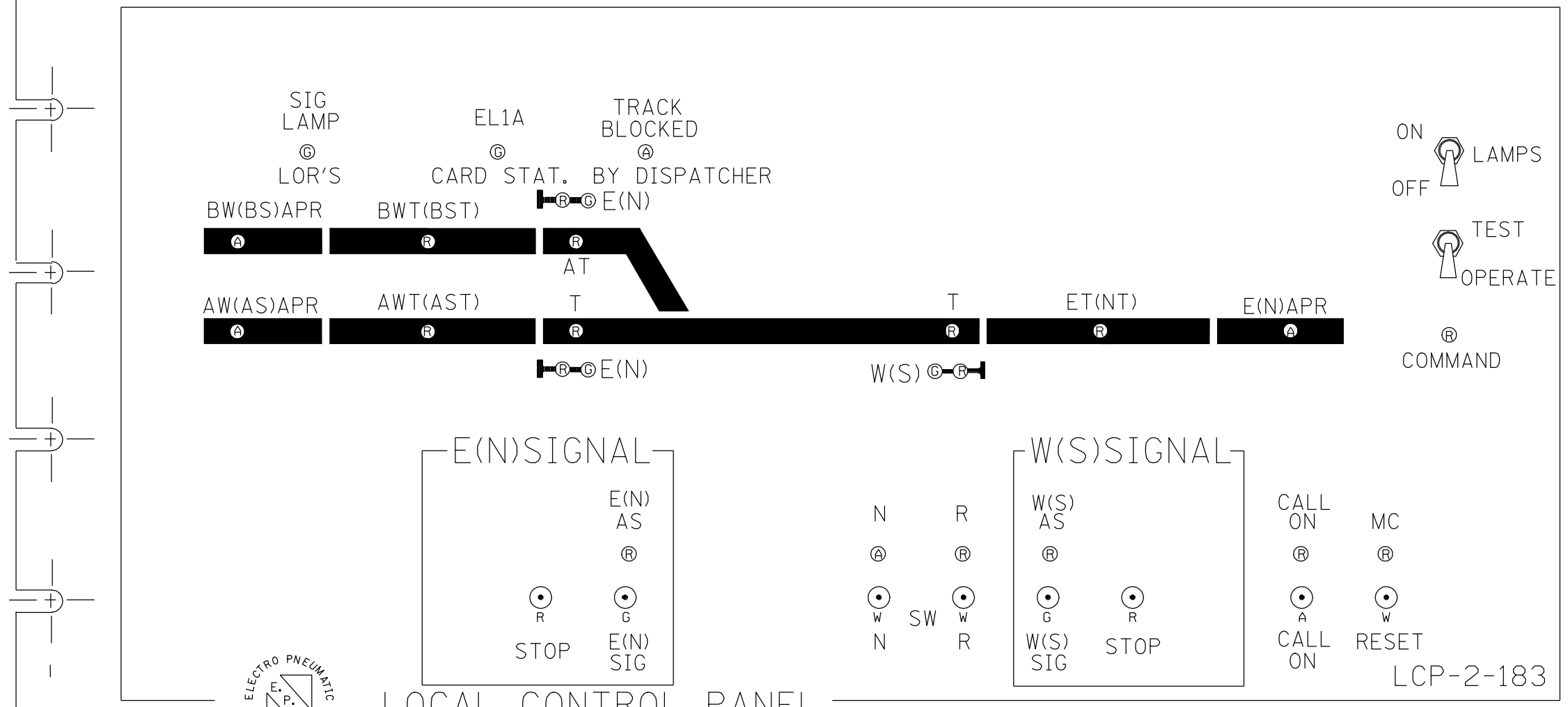
1. ALL ELECTRO-LOGIC MODULES ARE INTERCHANGEABLE. THE LOC. PROMS AND THE 316 TBL PROM ARE UNIQUE TO ONE LOCATION ONLY. DO NOT ATTEMPT TO USE AT ANY OTHER LOCATION.

2. ASR TIME= 8'12"

* = PROMS SUPPLIED BY DESIGN OFFICE

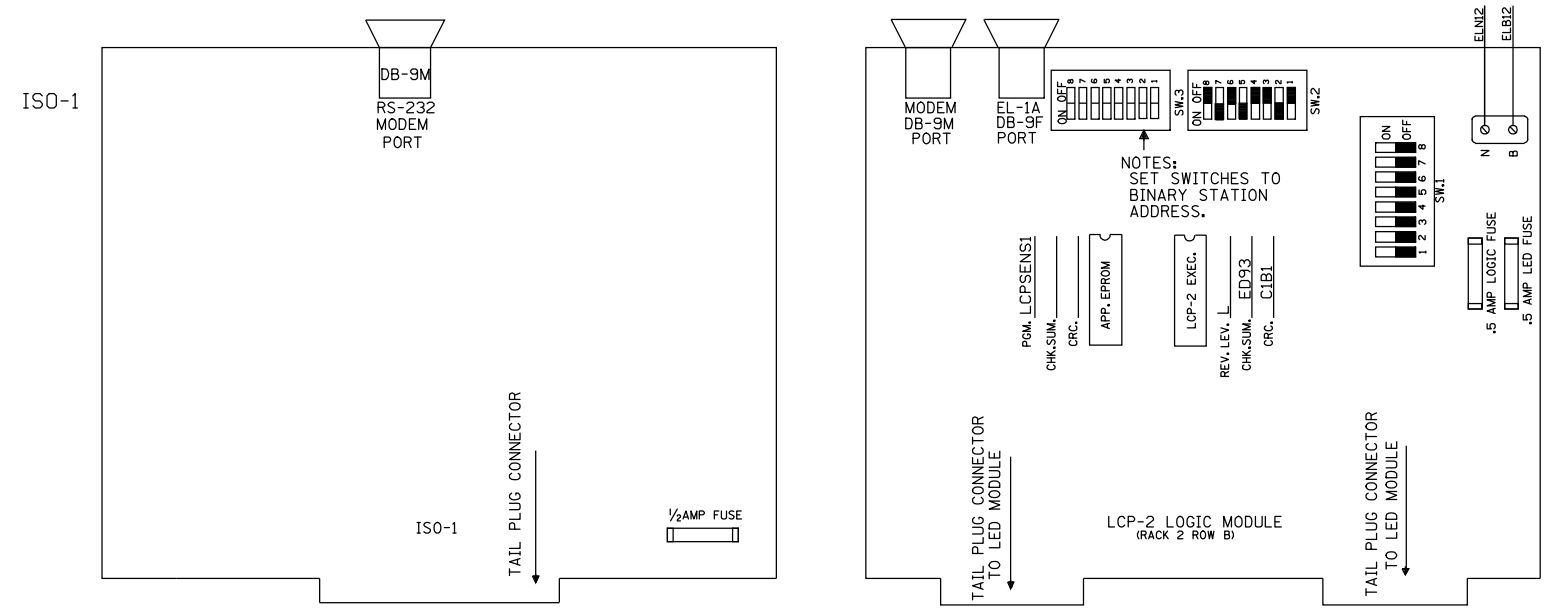
SANTA BARBARA SUBDIVISION
OXNARD, CALIFORNIA
E.E. OXNARD CPC0406
SIGNALS E&W (N&S) AND
REMOTE GCP
M.P. 405.49
8'X12' HOUSE

Revised: 12/14/11 REPLACED 310D CARD WITH 340 CARD PER FIELD AC. Rec#: 18149 W0*: 10325 Is: 11/22/11 AJB/WIT/	Revised: 1-11-11 E-LOGIC PROGRAM CHANGE PER AC. Rec#: 17349 W0*: Is: 12-10-10 DPA/NST/	1 REV. 04-23-02 INSTALL C.T.C. FROM SEACLIFF TO MOORPARK M.P.388.60 TO M.P.426.40 A.F.E.:25206 07-31-01 DWR KAS/WITT/CTC/MDF	MODIFICATION LEVEL Q.A. LAST LEVEL CHK'D. CA LAST LEVEL MOD. THIS TYP. CA LAST LEVEL BY DESIGNER. CG CHANGED FROM TYP.? Y/N N	CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN	DES: CTC DIG: CTC CHK: DWR A.F.E. 25206 ID= E40549.175	UNION PACIFIC RAILROAD MOORPARK, CALIFORNIA TO SAN LUIS OBISPO, CALIFORNIA C.T.C. CIRCUITS Office of AVP Engineering - Signal	DATE 8-18-97 SHEET 17 DWG 405.49 RTE E
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LOCAL CONTROL PANEL

LCP-2-183



(RACK 2 ROW B)

NOTES:

SIG LAMP LOR'S - ON IF NO LIGHT OUTS ON WAYSIDE SIGNALS.

EL1A CARD STAT - ON IF CARDS IN ELECTROLOGIC ARE OPERATIONAL

"AS" INDICATOR LIGHTS
ON IF NO TIME RUNNING
OFF IF SIGNAL CLEAR
FLASHING IF IN TIME.

APR LIGHTS - CODE 5 INDICATOR LIGHTS

TRK LIGHTS - CODE 1 TRACK LIGHTS.

FLASHING TRACK LIGHTS - TRACK BLOCK BY DISPATCHER

PROMS SUPPLIED BY DESIGN OFFICE

SANTA BARBARA SUBDIVISION
OXNARD, CALIFORNIA
E.E. OXNARD CPC0406
SIGNALS E&W (N&S) AND
REMOTE GCP
M.P. 405.49
8'X12' HOUSE

Revised: 1-11-11	1	REV. 04-23-02	MODIFICATION LEVEL	CIRCUIT MODIFICATIONS ARE NOT TO BE MADE WITHOUT AUTHORITY FROM THE OFFICE OF SIGNAL DESIGN	DES: CTC	UNION PACIFIC RAILROAD MOORPARK, CALIFORNIA TO SAN LUIS OBISPO, CALIFORNIA C.T.C. CIRCUITS Office of AVP Engineering - Signal	DATE 8-18-97
UPDATED MILE POST PER AC.	INSTALL C.T.C. FROM SEACLIFF TO MOORPARK M.P. 388.60 TO M.P. 426.40	Q.A. LAST LEVEL CHK'D.	CA	DIG: CTC	SHEET 18		
Rec'd: 17349 WDP: 12-10-10 DPA/NST/	A.F.E.: 25206 07-31-01 KAS/WITT/CTC/MDF	LAST LEVEL MOD. THIS TYP.	CA	CHK: DWR	DWG 405.49		
		LAST LEVEL BY DESIGNER.	CG	A.F.E. 25206			
		CHANGED FROM TYP.? Y/N	Y	ID= E40549.185		RTE E	