

BOOK 1 OF 1

CSX

TRANSPORTATION

EXERMONT, IL

CIRCUIT MODIFICATIONS AT EXERMONT

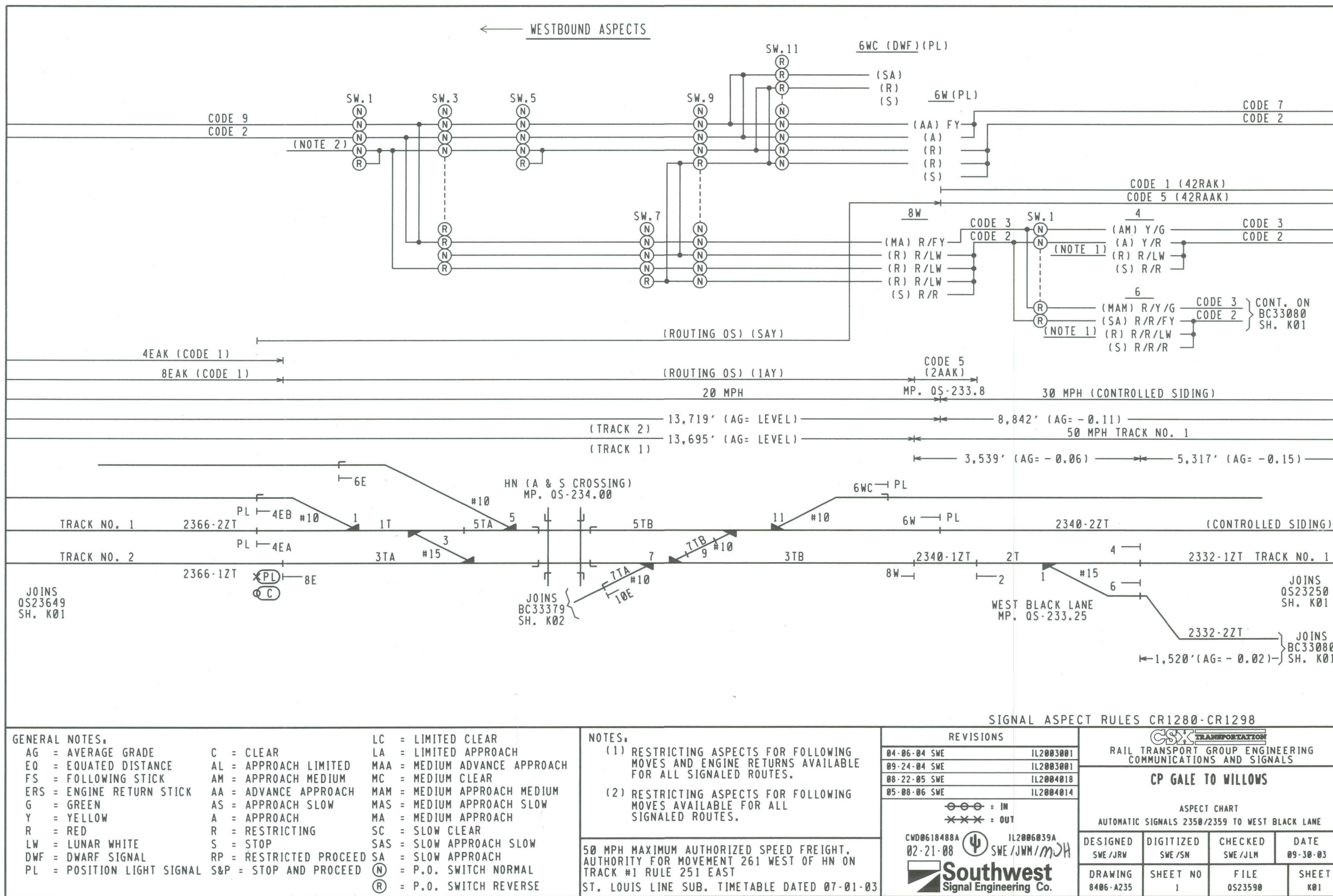
CWD06-18488A

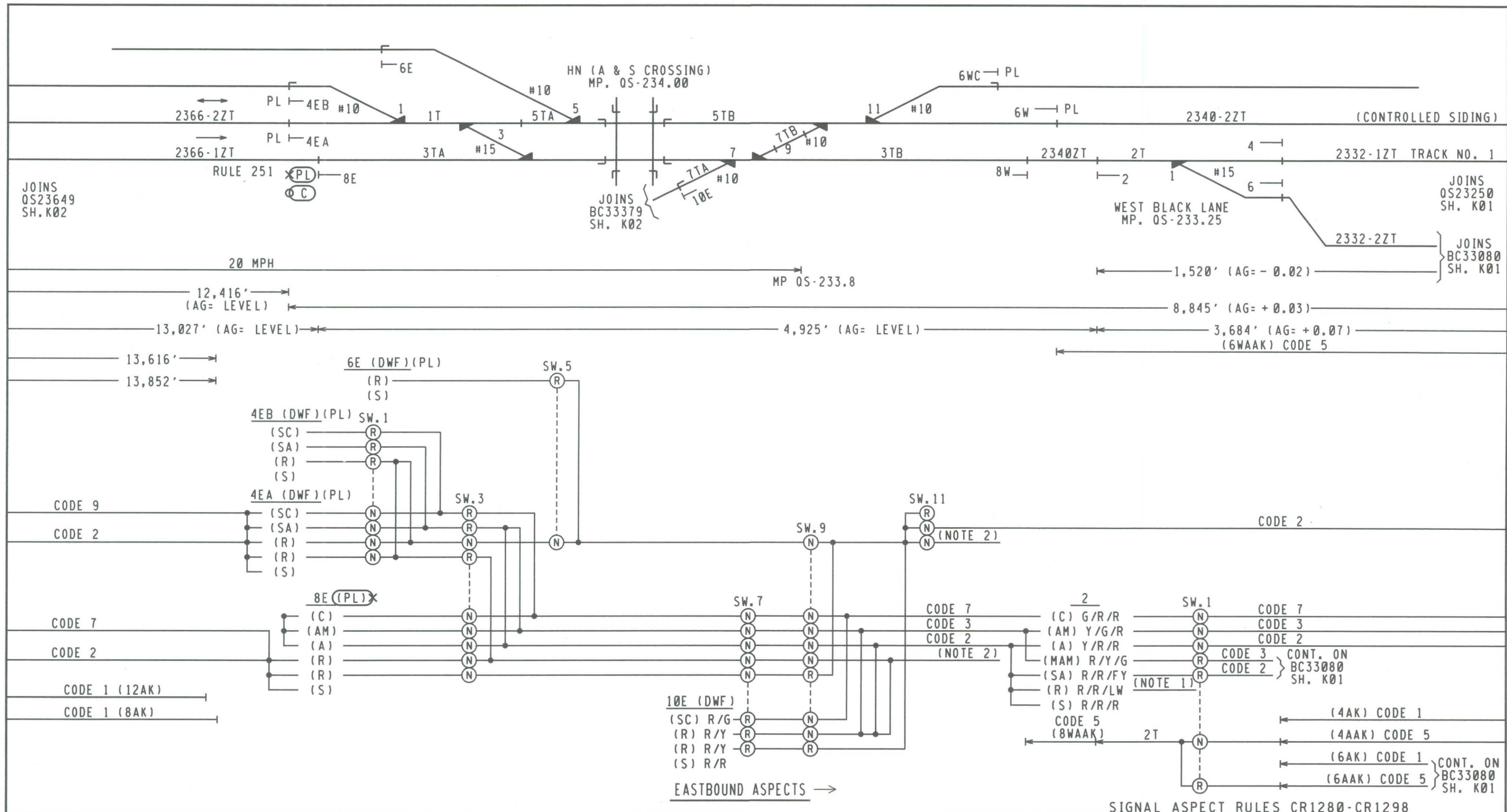
PROJECT NO.
IL2006039A

AFE
531

 **Southwest**
Signal Engineering Co.

7235 Bonneval Road - Jacksonville, FL 32256
904-443-0083





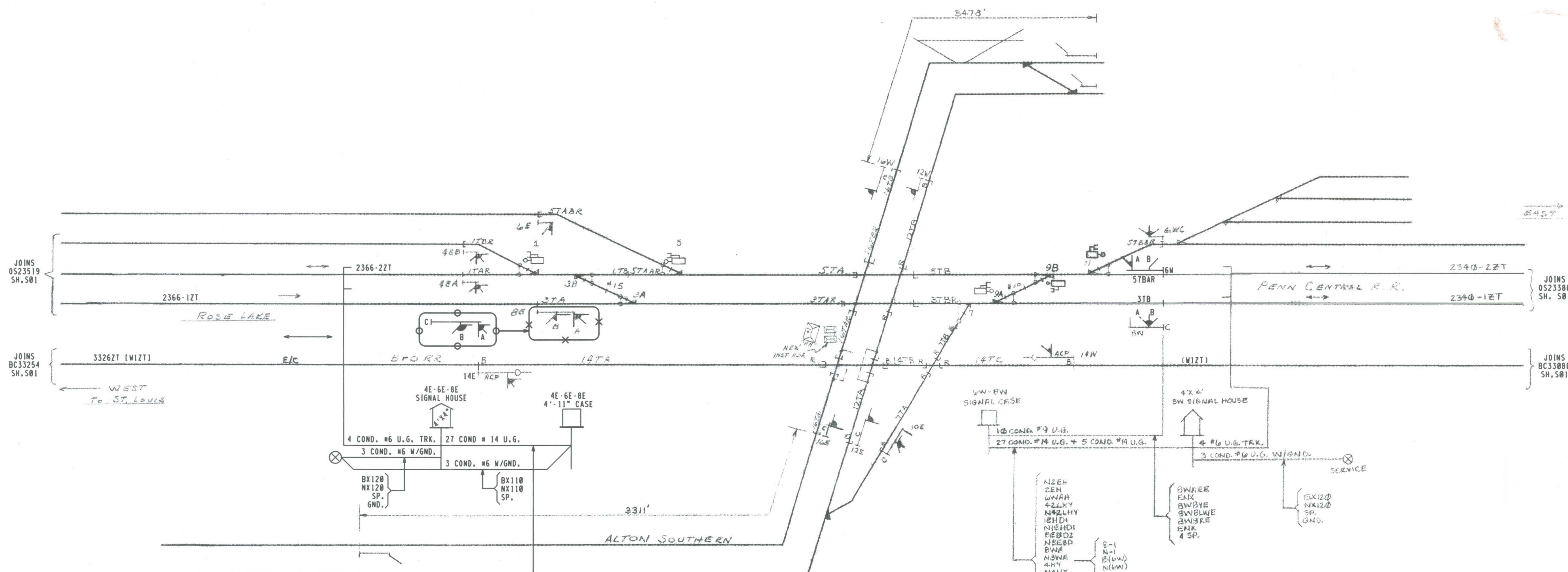
GENERAL NOTES:
 AG = AVERAGE GRADE
 EQ = EQUATED DISTANCE
 FS = FOLLOWING STICK
 ERS = ENGINE RETURN STICK
 G = GREEN
 Y = YELLOW
 R = RED
 LW = LUNAR WHITE
 DWF = DWARF SIGNAL
 PL = POSITION LIGHT SIGNAL
 C = CLEAR
 AL = APPROACH LIMITED
 AM = APPROACH MEDIUM
 AA = ADVANCE APPROACH
 AS = APPROACH SLOW
 A = APPROACH
 R = RESTRICTING
 S = STOP
 RP = RESTRICTED PROCEED
 S&P = STOP AND PROCEED
 LC = LIMITED CLEAR
 LA = LIMITED APPROACH
 MAA = MEDIUM ADVANCE APPROACH
 MC = MEDIUM CLEAR
 MAM = MEDIUM APPROACH MEDIUM
 MAS = MEDIUM APPROACH SLOW
 MA = MEDIUM APPROACH
 SC = SLOW CLEAR
 SAS = SLOW APPROACH SLOW
 SA = SLOW APPROACH
 P.O. SWITCH NORMAL (N)
 P.O. SWITCH REVERSE (R)

NOTES:
 (1) RESTRICTING ASPECTS FOR FOLLOWING MOVES AND ENGINE RETURNS AVAILABLE FOR ALL SIGNALLED ROUTES.
 (2) RESTRICTING ASPECTS FOR FOLLOWING MOVES AVAILABLE FOR ALL SIGNALLED ROUTES.
 50 MPH MAXIMUM AUTHORIZED SPEED FREIGHT.
 AUTHORITY FOR MOVEMENT 261
 ST. LOUIS LINE SUB. TIMETABLE DATED 07-01-03

REVISIONS	
04-06-04 SWE	IL2003001, IL2003001A
09-24-04 SWE	IL2003001
05-08-06 SWE	IL2004014

○○○○ = IN
 ×××× = OUT
 CW00610408A IL2006039A
 02-21-08 SWE/JWM/171 JH
Southwest
 Signal Engineering Co.

RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
CP GALE TO WILLOWS			
ASPECT CHART HN (A & S CROSSING) TO WEST BLACK LANE			
DESIGNED SWE/JRW	DIGITIZED SWE/SN	CHECKED SWE/JLM	DATE 09-30-03
DRAWING 8406-A235	SHEET NO 2	FILE 0523590	SHEET K02

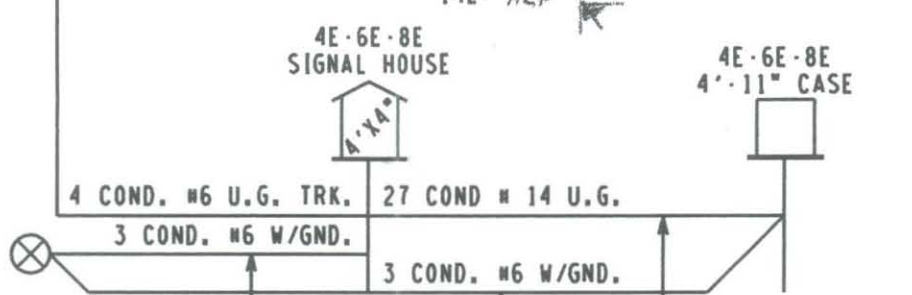


JOINS
0523519
SH. 501

JOINS
BC33254
SH. 501

JOINS
0523380
SH. 501

JOINS
BC33080
SH. 501



- 2WHP
- N2WHP
- 2WHP
- N2WHP
- 4EA
- BEA
- B(HA)
- 10HY
- W10HY
- BEAHP
- NBEAHP
- 10HYBP
- N10HYBP
- 4EHP
- N4EHP
- 4ERGP5
- N4ERGP
- 8ERGP4
- N8ERGP
- 8SP.

NOTE: EQUIPMENT BETWEEN A & S DISTANT SIGNALS AND HOME SIGNALS IS INSTALLED AND MAINTAINED BY A & S FORCE.

[] = FOR TAGGING PURPOSES ONLY.

THIS PLAN DOES DOES NOT
 SUPERSEDE PLAN DATED 11-05-06
 CSX PROJECT # IL2006039

⊙⊙⊙ = IN
 ⊗⊗⊗ = OUT

CWD0618488A IL2006039A
 02-21-08 SWE/JWH/MJH

 Southwest
 Signal Engineering Co.

REVISIONS		
1-27-94	IL94001	SWE
5-2-94	CTC	
12-16-94	FCS	
04-06-04	SWE	IL2003001, IL2003001A
05-08-06	VECTOR CREATED BY SWE	IL2004014
07-20-07	IRS	IL2005032
08-14-07	SAF	IL2005019C
DRAWING	SHEET NO	NEXT SH
1630-6	1	3

CSX TRANSPORTATION			
RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
BLACK LANE TO K TOWER			
HW CABIN, A & S CROSSING			
SWITCH AND SIGNAL ARRANGEMENT			
ROSE LAKE, IL M.P. BC-331.10			
DESIGNED	DIGITIZED	CHECKED	DATE
CSX	SWE	CSX	05-08-06
DRAWING	SHEET NO	NEXT SH	FILE
1630-6	1	3	BC33110
NEXT FILE	NEXT SH	FILE	SHEET
BC33110	S01A	BC33110	S01

← WEST TO BLACK LANE

108+22 S.I.S.

105+86 SIG.

105+50 S.I.B

105+19 P.S.

104+75 P.S.

101+88 P.S.

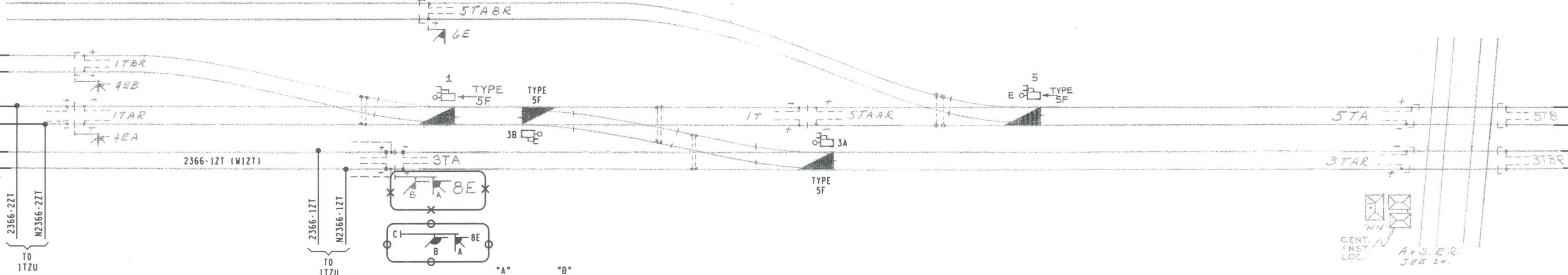
101+36 P.S.

100+00 E.XING.

99+86 E.XING.

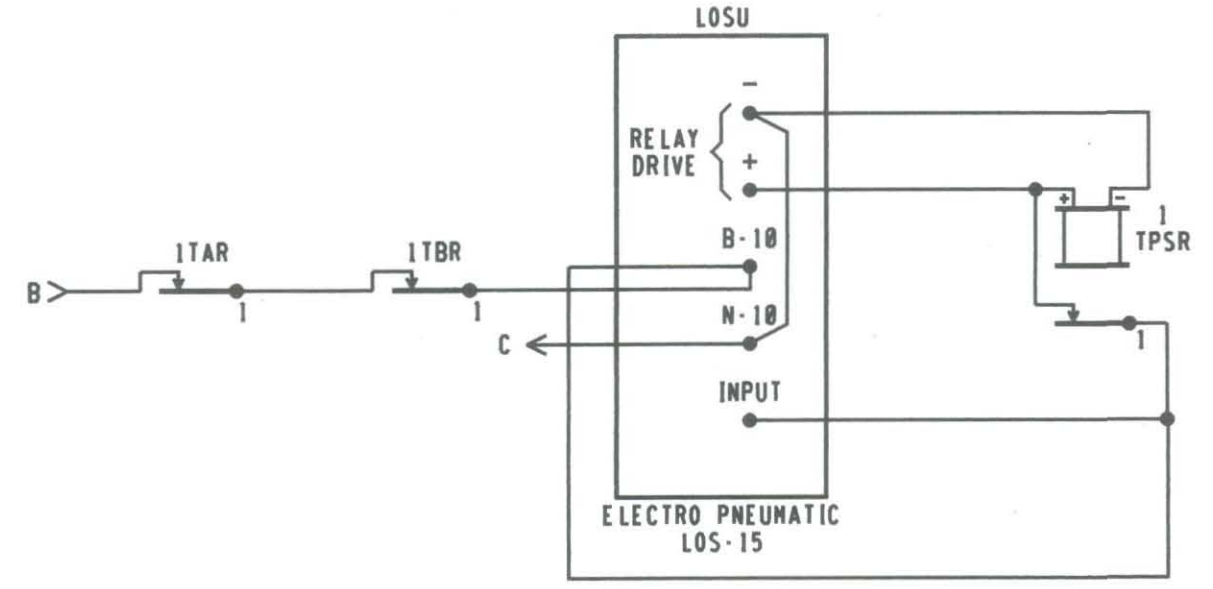
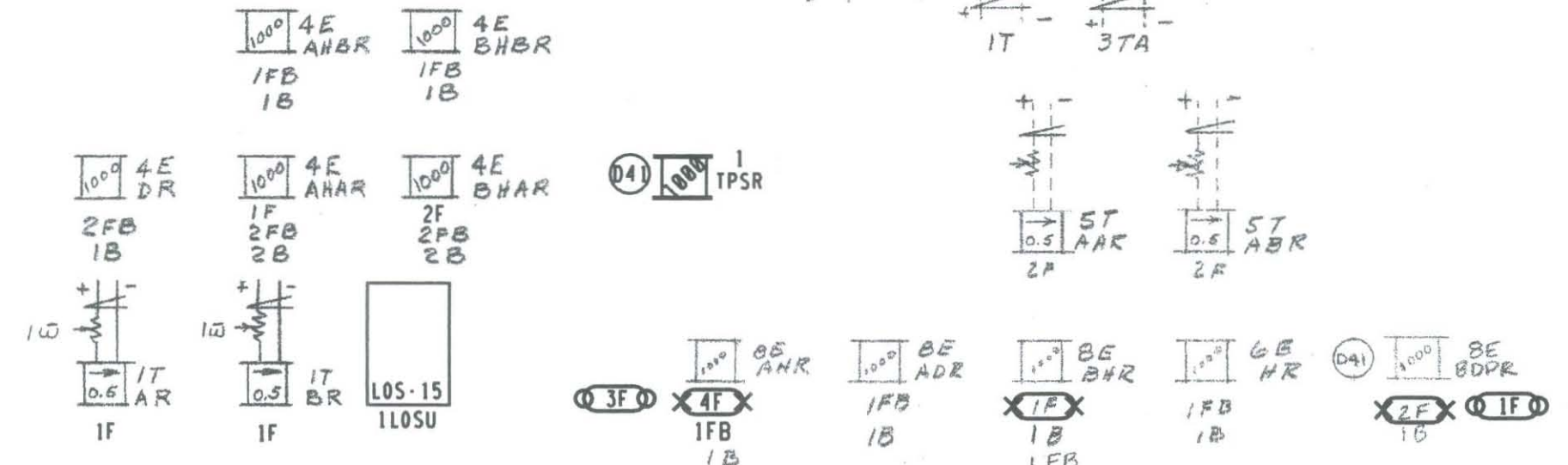
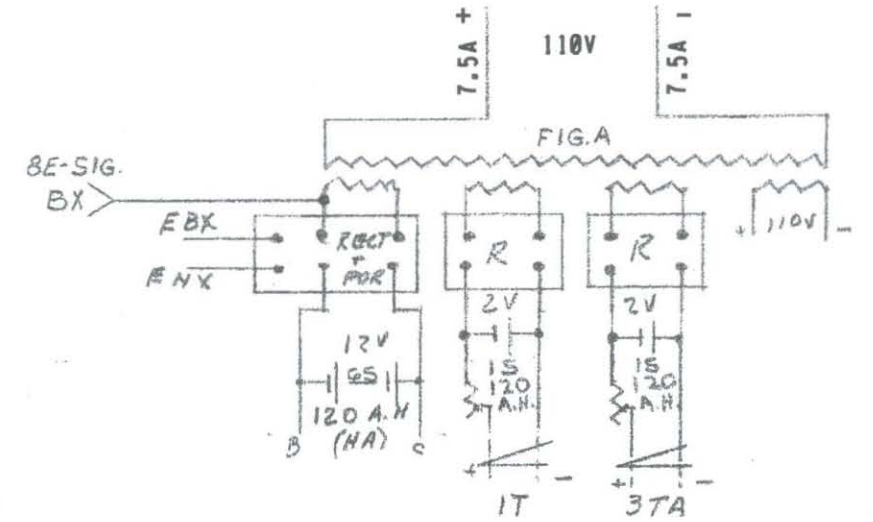
JOINS
0523519
SH.501

JOINS
BC33110
SH.501B



CENT.
INST.
LOC.
A.S.R.R.
SEE SH.

LOC. 4E-6E-8E
4"11" CASE



THIS PLAN DOES NOT
SUPERSEDE PLAN DATED 11-05-06
CSX PROJECT # IL2006039

⊙ = IN
⊗ = OUT

CWD0618488A 1L2006039A
02-21-08 SWE/JWH/mjh

Southwest
Signal Engineering Co.

REVISIONS	
5-21-93	IL93026 SWE
5-2-94	CTC
04-06-04	SWE IL2003001
05-08-06	VECTOR CREATED BY SWE IL2004014
12-15-06	SWE IL2005029

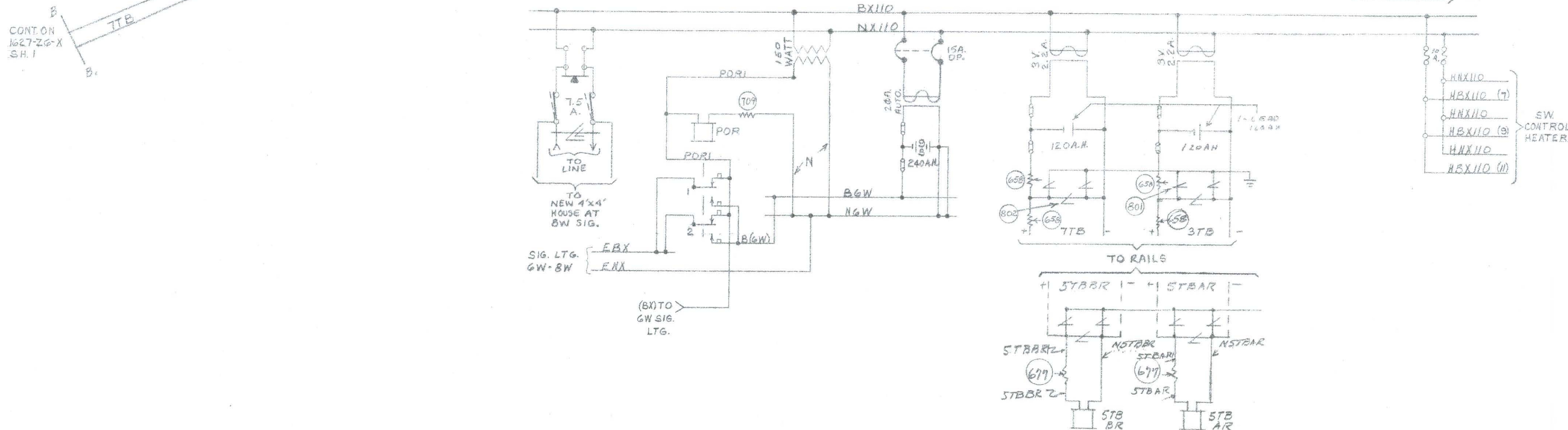
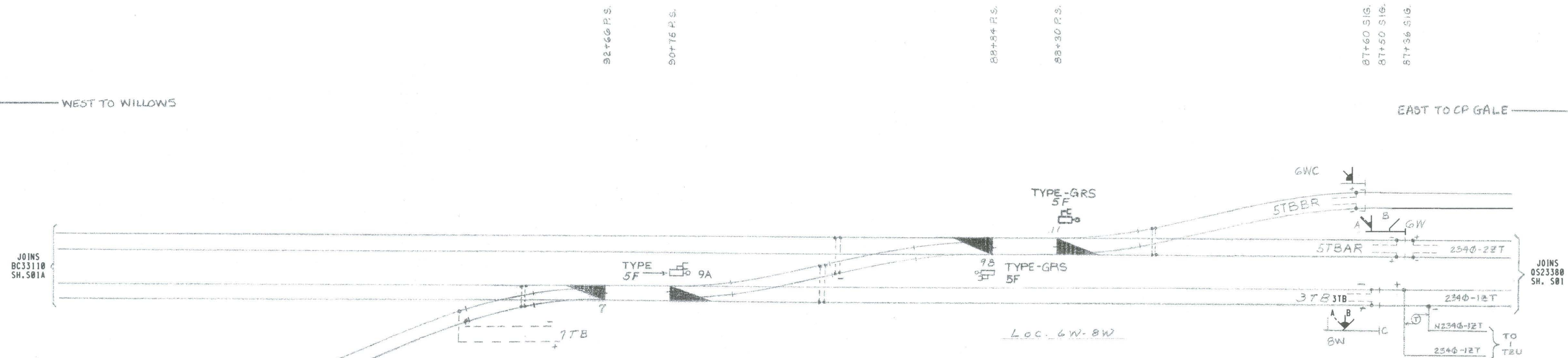
RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS

BLACK LANE TO K TOWER
HH CABIN, A & S CROSSING
TRACK AND SIGNAL ARRANGEMENT
ROSE LAKE, IL M.P. BC-331.10

DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	DATE
1630-6	3	4	BC33110	501B	BC33110	05-08-06

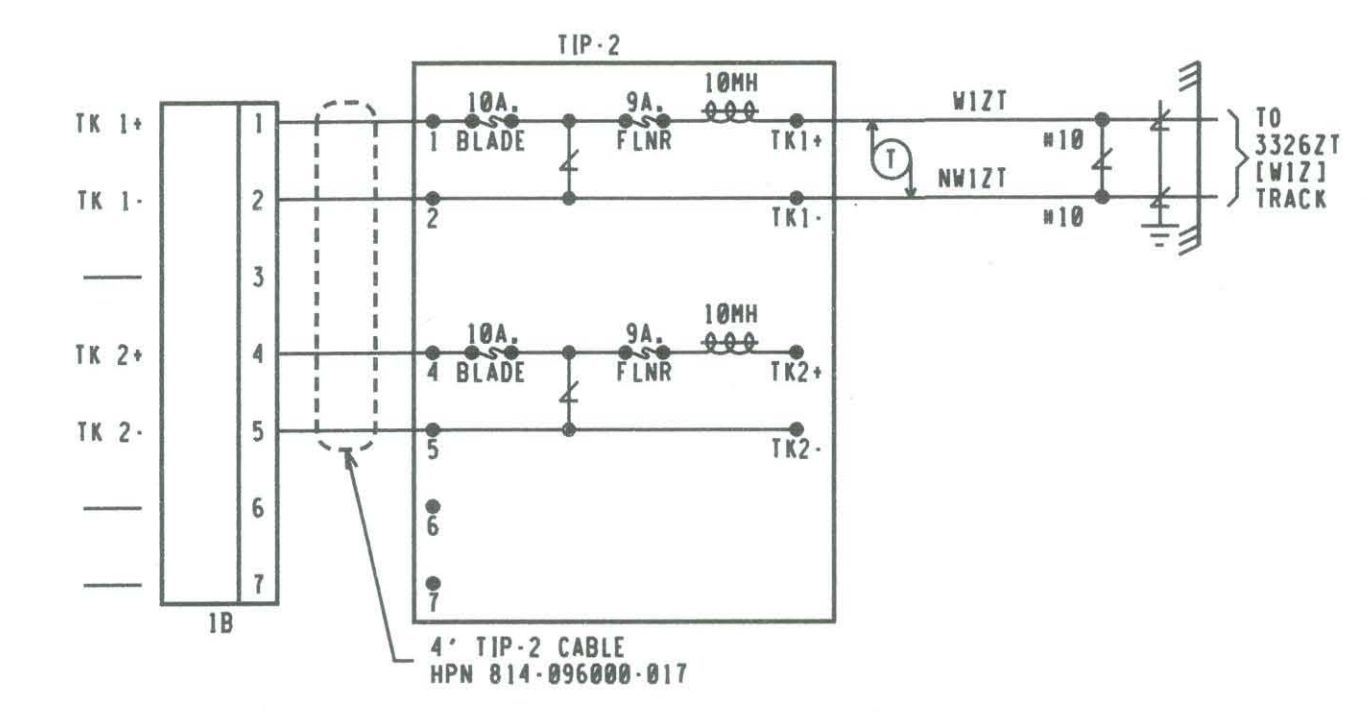
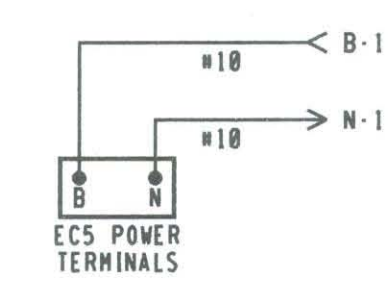
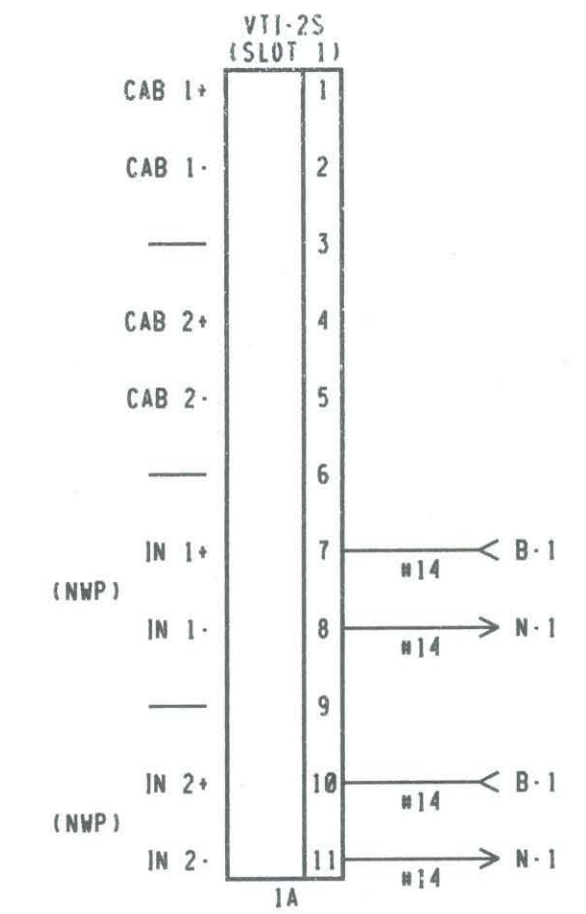
← WEST TO WILLOWS

→ EAST TO CP GALE



NO CHANGES
 CWD0618488A IL2006039A
 02-21-08 SWE/JWH/
Southwest
 Signal Engineering Co.

REVISIONS			 RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
5-21-93	IL93026	SWE	BLACK LANE TO K TOWER MM CABIN, A & S CROSSING TRACK AND SIGNAL ARRANGEMENT (EAST PORTION) ROSE LAKE, IL M.P. BC-331.10			
1-27-94	IL94001	SWE				
12-16-94	FCS					
04-06-04	SWE	IL2003001, IL2003001A				
05-08-06		IL2004014				
07-20-07	IRS	IL2005032	DESIGNED	DIGITIZED	CHECKED	DATE
			CSX	SWE	CSX	05-08-06
DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
1630-6	4	5	BC33110	C01	BC33110	S01B



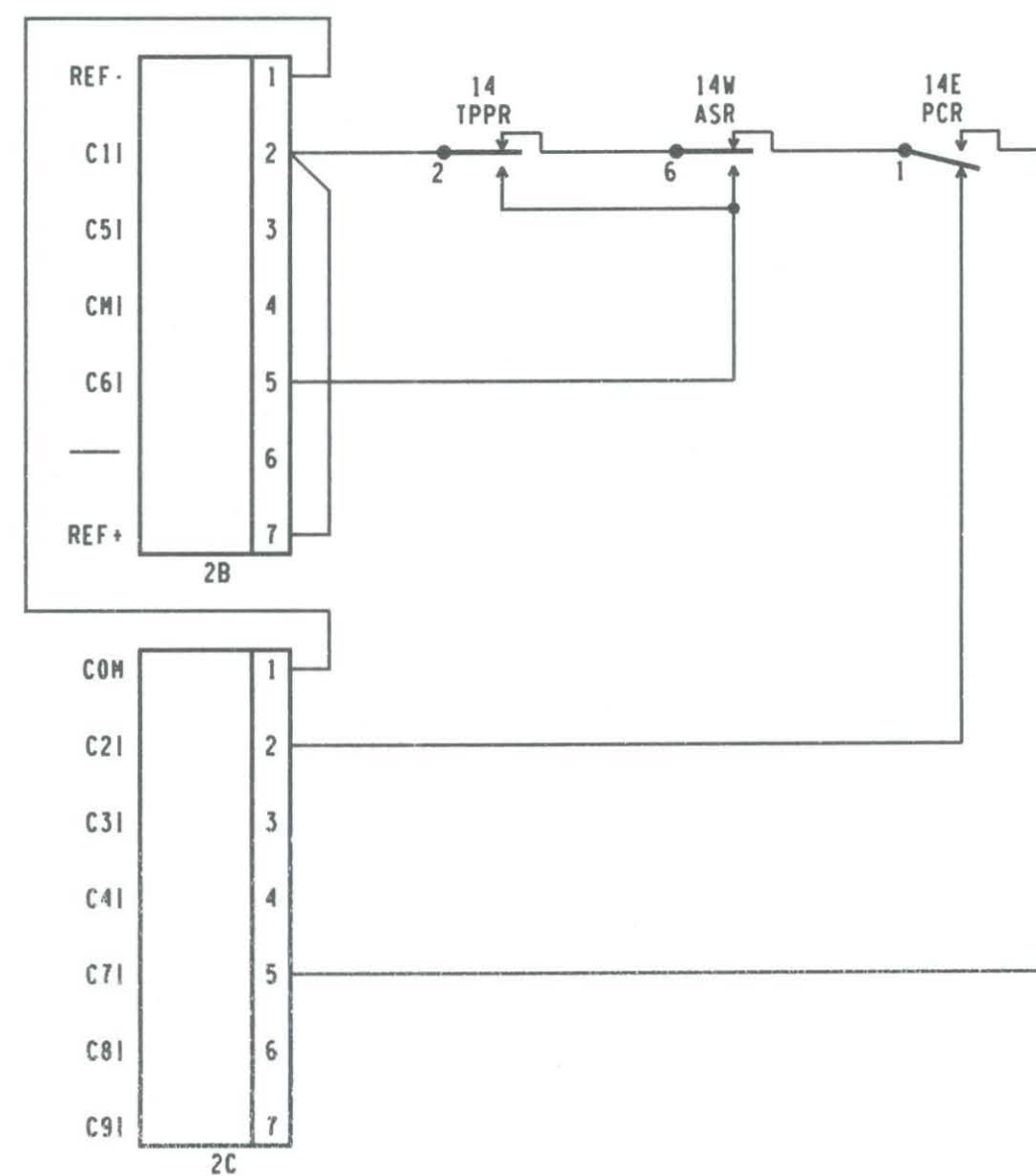
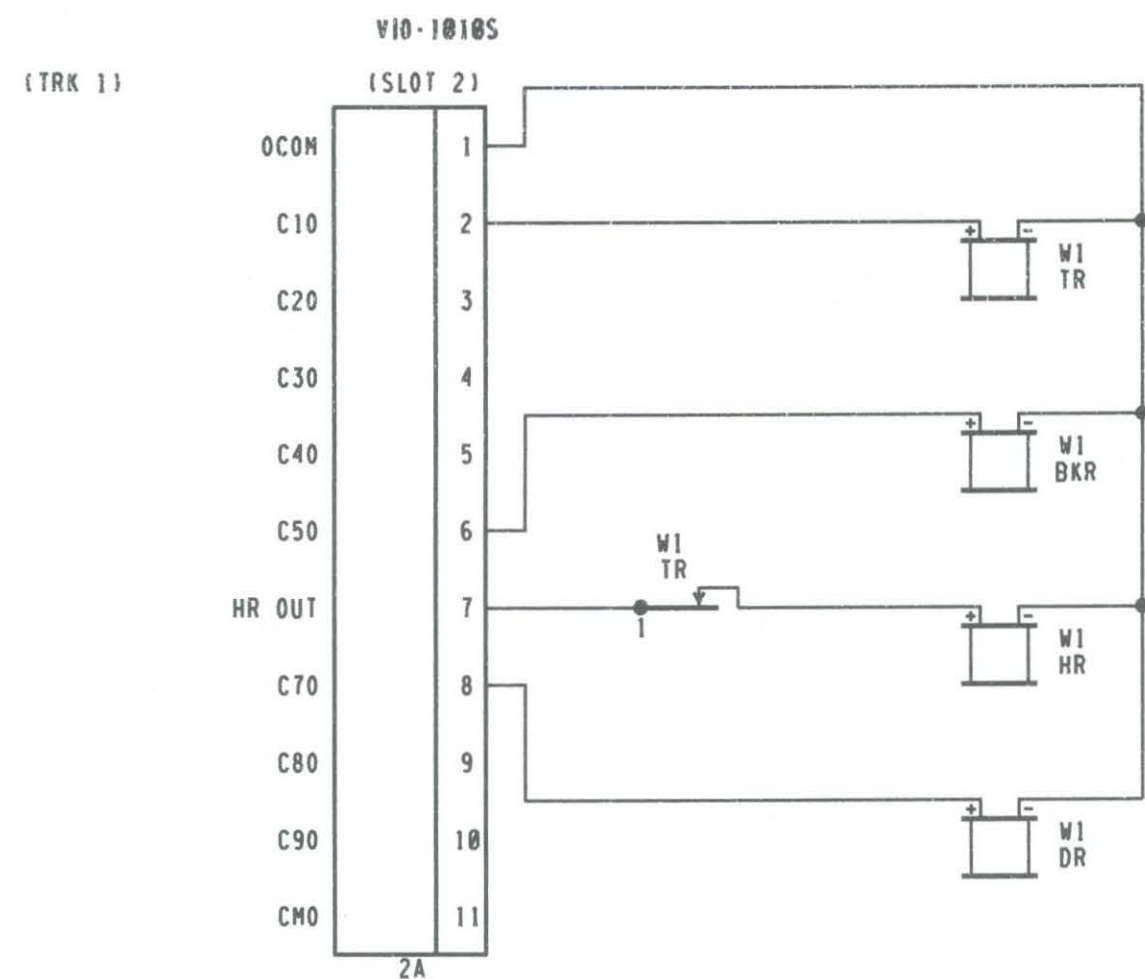
NOTE:
THE ROUTING OF TRACK WIRES WITHIN THE BUNGALOW SHOULD BE AS SHORT AND DIRECT AS POSSIBLE, ESPECIALLY FOR THE LONGER TRACK CIRCUITS.

NO CHANGES
CWD0618488A IL2006039A
02-21-08 SWE/JWH/

NOTE:
[] = TAGGING PURPOSES ONLY
EC5 END UNIT TRACK I/O

Southwest
Signal Engineering Co.

REVISIONS		CSX TRANSPORTATION			
05-08-06 SWE	IL2004014	RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
BLACK LANE TO K TOWER					
HN CABIN, A & S CROSSING					
ELECTRO CODE 5 END UNIT TRACK I/O					
ROSE LAKE, IL M.P. BC-331.10					
DESIGNED SWE/DRJ	DIGITIZED SWE/TAL	CHECKED SWE	DATE 01-21-05		
DRAWING 1630-6	SHEET NO 5A	NEXT SH 5B	NEXT FILE BC33110	NEXT SH C03	SHEET C02



NO CHANGES

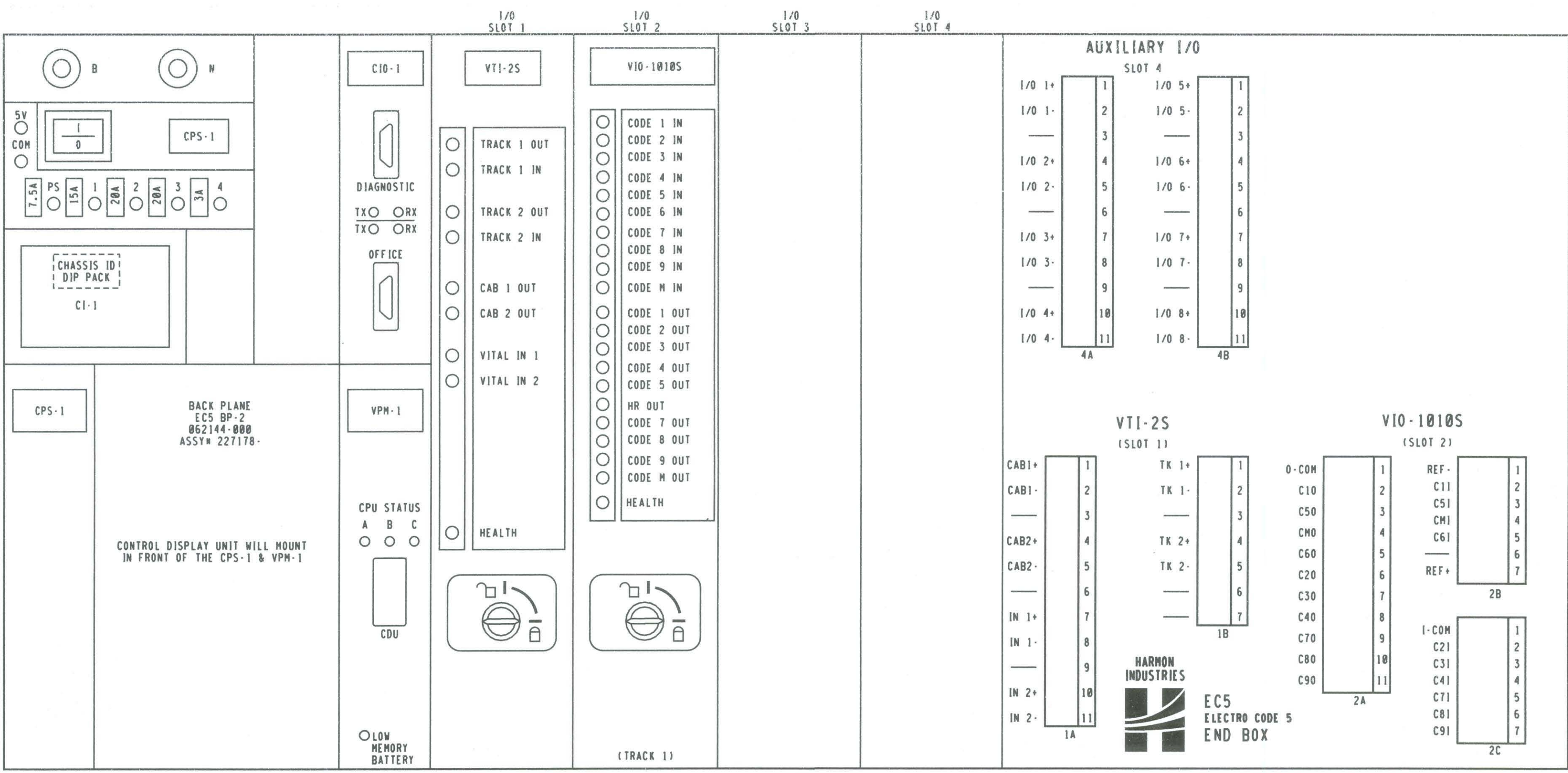
CWD0610408A 02-21-08
IL2006039A SWE/JWH/

Southwest
Signal Engineering Co.

NOTES:
RELAY CONSIST SHOWN ON SH. 43

WEST TRACK
EC5 END UNIT VITAL I/O

REVISIONS			RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
05-08-06 SWE	IL2004014		BLACK LANE TO K TOWER HW CABIN, A & S CROSSING ELECTRO CODE 5 END UNIT TRACK I/O (WEST TRACK) ROSE LAKE, IL M.P. BC-331.10			
DESIGNED SWE/DRJ	DIGITIZED SWE/TAL	CHECKED SWE				
DRAWING 1630-6	SHEET NO 5B	NEXT SH 5C	NEXT FILE BC33110	NEXT SH C04	FILE BC33110	SHEET C03

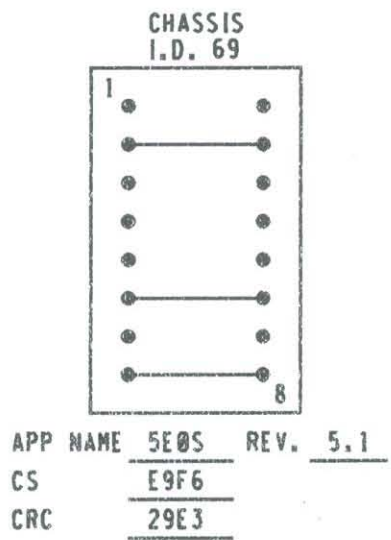


EC5 END BOX BACKPLANE (BP-2) WITZU

CDU-1 = CONTROL DISPLAY UNIT
 CPS-1 = CENTRAL POWER SUPPLY
 VPH-1 = VITAL PERIPHERAL MASTER MODULE
 CI-1 = CHASSIS INFORMATION MODULE
 CIO-1 = COMMUNICATION INPUT/OUTPUT : 1
 CIO-2 = COMMUNICATION INPUT/OUTPUT : 2
 VTI-2S = VITAL TRACK INTERFACE
 VIO-1010S = TRACK CODE SELECT INPUT/TRACK CODE DECODER OUTPUT MODULE

DIAGNOSTIC AND OFFICE PORT PIN ASSIGNMENT

PIN	SIGNAL	SIGNAL NAME
1	CD	CARRIER DETECT
2	RX	RECEIVE DATA
3	TX	TRANSMIT DATA
4	DTR	DTE
5	GND	COMMON SIGNAL RETURN
6	DSR	DCE
7	RTS	REQUEST TO SEND
8	CTS	CLEAR TO SEND
9	RI	RING INDICATOR



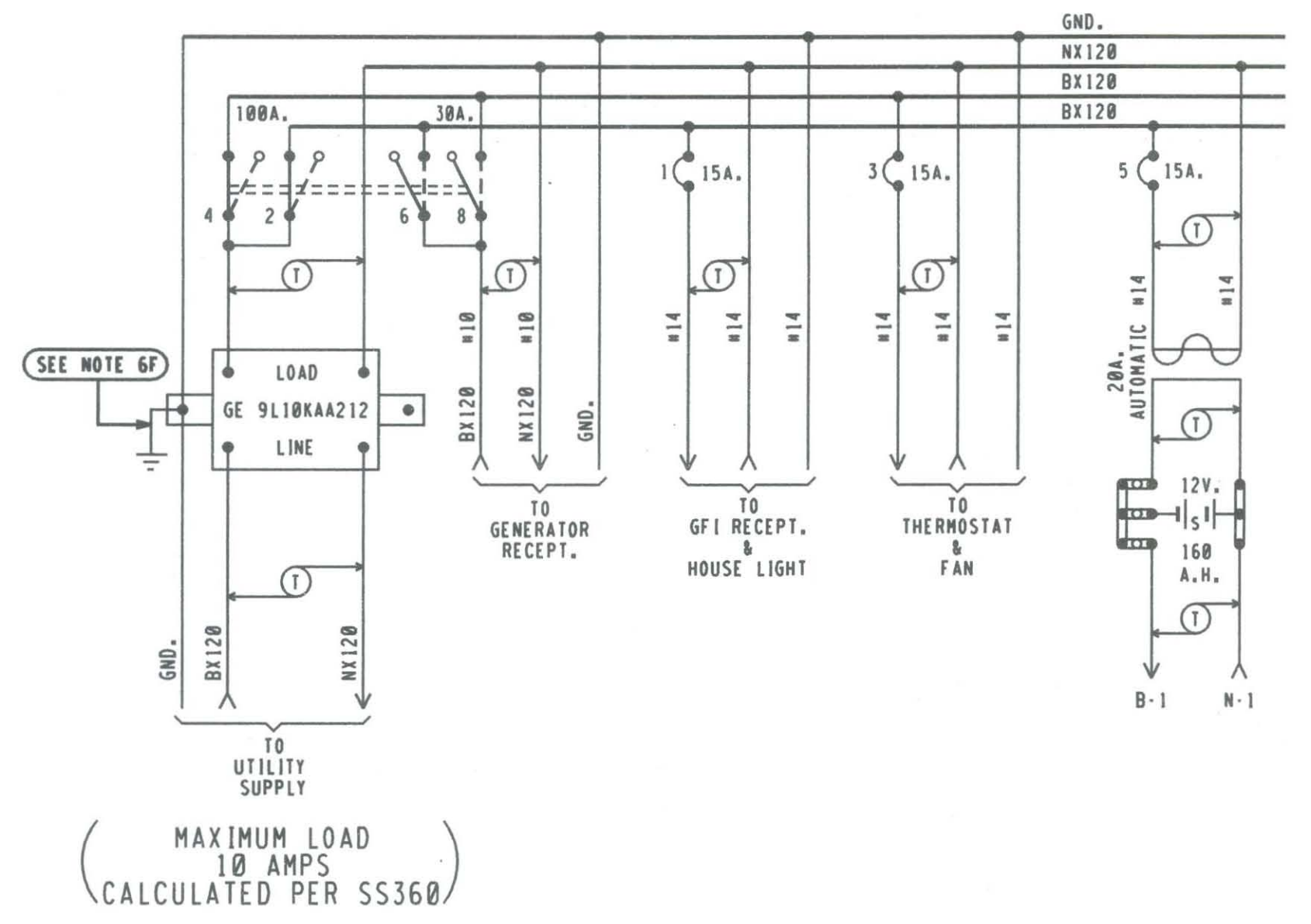
EC5 END UNIT (WITZU)

REVISIONS			CSX TRANSPORTATION			
05-08-06 SWE		1L2004014	RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
BLACK LANE TO K TOWER						
HW CABIN, A & S CROSSING						
ELECTRO CODE 5 END UNIT BOX BACKPLANE (BP-2)						
ROSE LAKE, IL H.P. BC-331.10						
DESIGNED SWE/DRJ	DIGITIZED SWE/TAL	CHECKED SWE	DATE 01-21-05			
DRAWING 1630-6	SHEET NO 5C	NEXT SH 5D	NEXT FILE BC33110	NEXT SH C05	FILE BC33110	SHEET C04

NO CHANGES
 CND0618488A 1L2006039A
 02-21-08 SWE/JWH/
Southwest
 Signal Engineering Co.

(TOP ROW)

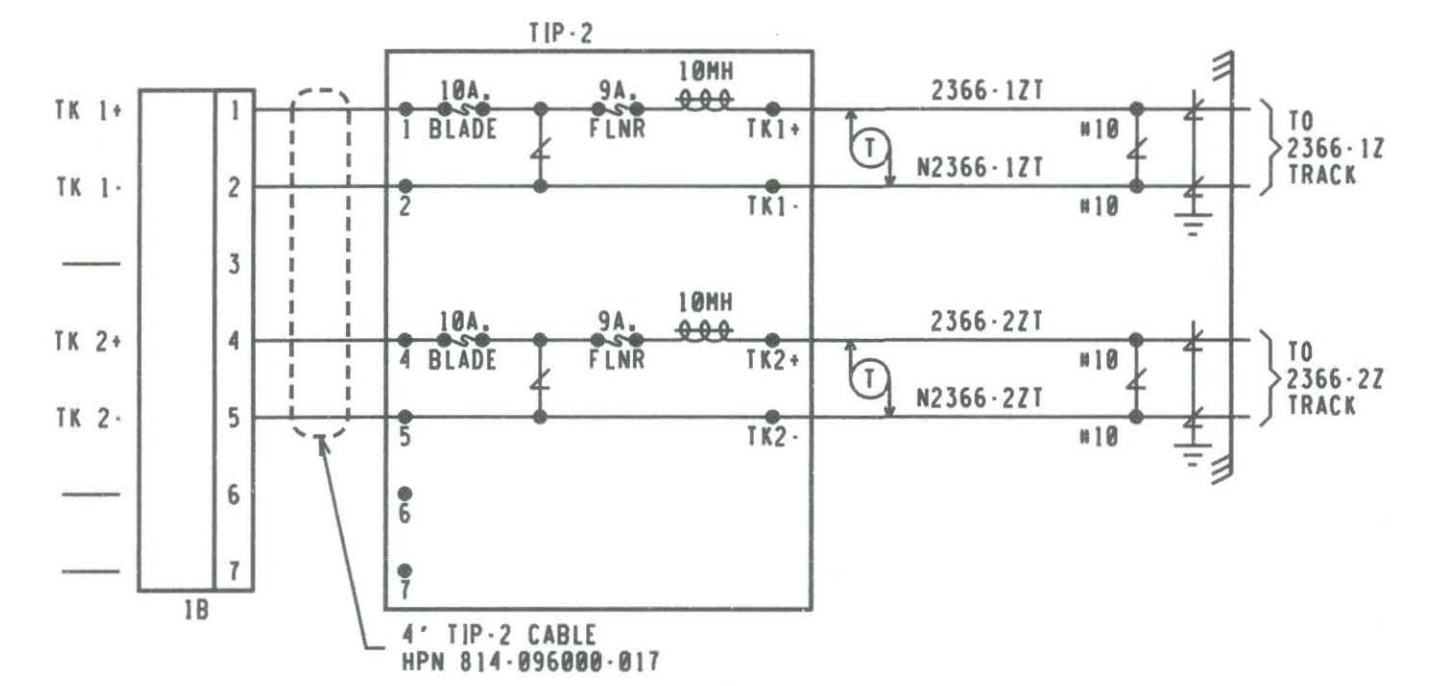
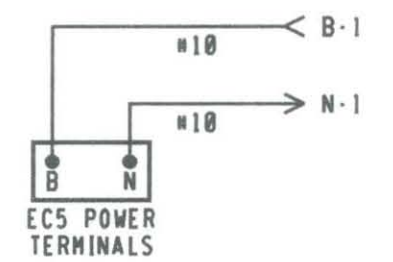
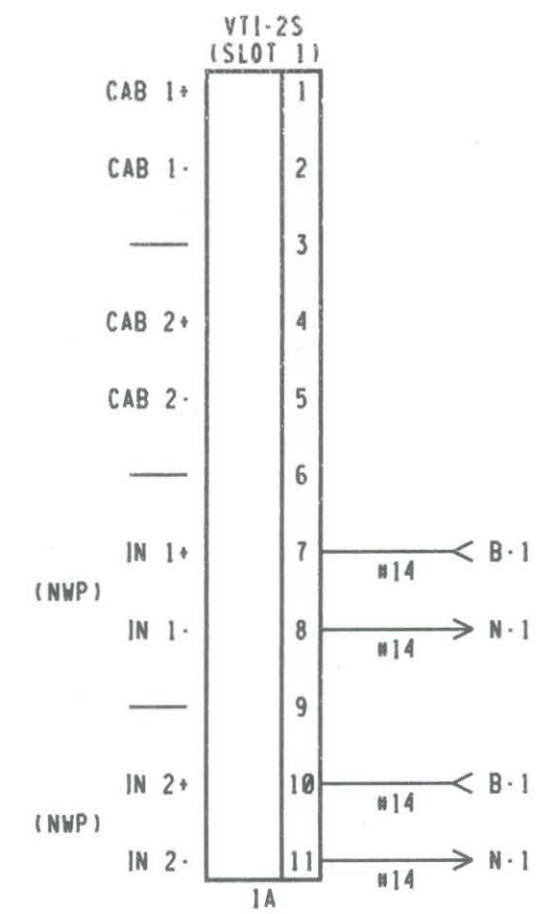
2366-1ZTR		2366-2ZTR		4EAHPR		8EAHPR		10HYR		2WHR		2WHR	
12	F	12	F	12	FB	12	FB	12	FB	12	FB	12	FB
15	B8	15	B8	15	B	15	B	15	B	15	B8	15	B8
22	C30	22	C30	22	B	22	B	22	B	22	C30	22	C30
23		23	F	23		23		23		23	F	23	F
25		25		25		25		25		25	F	25	F
32		32		32		32		32		32		32	
35		35		35		35		35		35		35	



- NOTES:
- 1 - REFERENCES ARE PER SCMS-13.
 - 2 - ARRESTERS ARE PER SS302.
 - 3 - SHELF RELAY PLACEMENT ON CONSIST CHART HAS NO SIGNIFICANCE.
 - 4 - PLUG-IN RELAYS ARE VIEWED FROM THE FRONT OF RACK.
 - 5 - BATTERY A.H. CAPACITY SHOWN IS THE MINIMUM REQUIREMENT.
 - 6 - WIRING
 - A - FEED TO ALL BUSES, LIGHT CIRCUITS, MOTOR CIRCUITS TO BE #10 FLEX.
 - B - 120-VOLT FEED FROM ENTRANCE TO POWER BUSS TO BE #10 FLEX.
 - C - ALL TRACK WIRES TO BE #10 FLEX.
 - D - ALL OTHERS TO BE #16 FLEX UNLESS NOTED.
 - E - BATTERY OUTPUTS TO BE #6 TWISTED PAIR PER SS360.
 - F - GROUND WIRE NOT NECESSARY WHEN GE ARRESTER IS MOUNTED ON GROUND PLANE OR METAL ENCLOSURE AFFIXED DIRECTLY TO BUNGALOW METALLIC STRUCTURAL MEMBER.
 - 7 - CIRCUIT INTERRUPTERS 2 & 4 ARE MECHANICALLY INTERLOCKED WITH CIRCUIT INTERRUPTERS 6 & 8.

4' X 4' RELAY HOUSE (4E-6E-8E SIGNAL HOUSE)

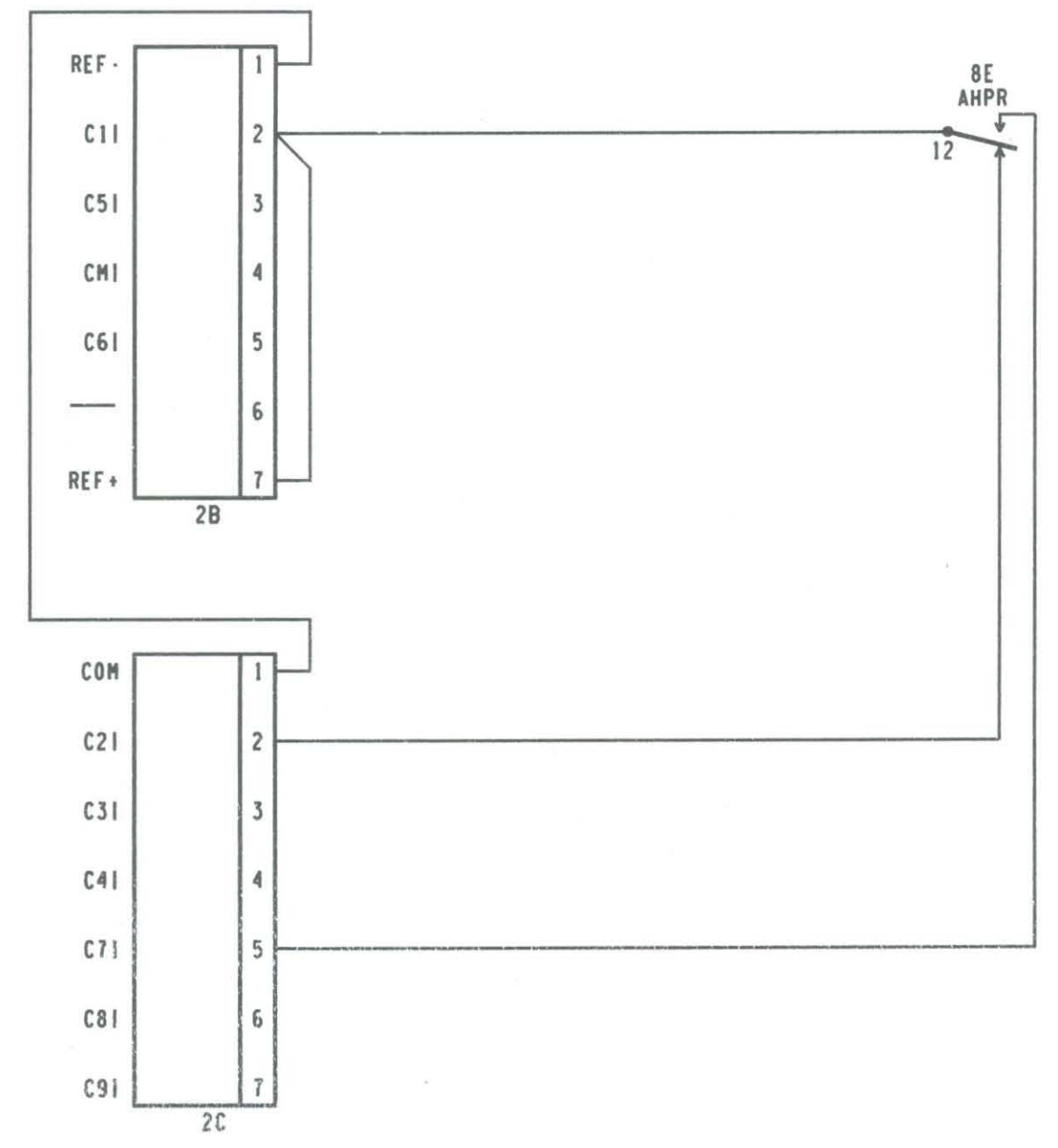
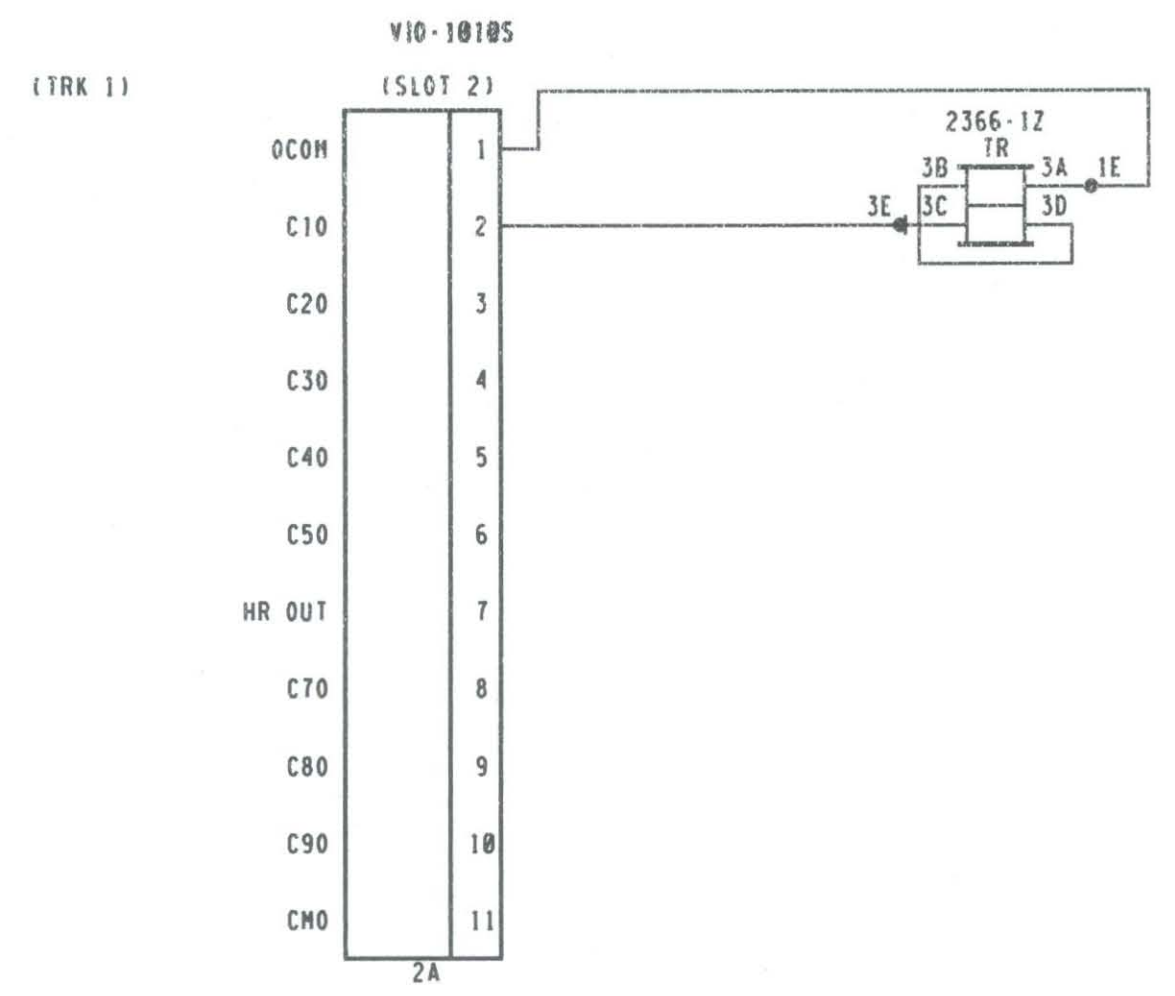
REVISIONS		CSX TRANSPORTATION RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
05-08-06 SWE	IL2004014	BLACK LANE TO K TOWER NN CABIN, A & S CROSSING POWER DISTRIBUTION ROSE LAKE, IL M.P. BC-331.10			
NO CHANGES CH00618488A 02-21-08 SWE/JWM/					
		DESIGNED SWE/DRJ	DIGITIZED SWE/TAL	CHECKED SWE	DATE 01-21-05
DRAWING 1630-6	SHEET NO 5D	NEXT SH 5E	NEXT FILE BC33110	NEXT SH C06	FILE BC33110



NOTE:
THE ROUTING OF TRACK WIRES WITHIN THE BUNGALOW SHOULD BE AS SHORT AND DIRECT AS POSSIBLE, ESPECIALLY FOR THE LONGER TRACK CIRCUITS.

NOTE:
[] = TAGGING PURPOSES ONLY
EC5 END UNIT TRACK I/O

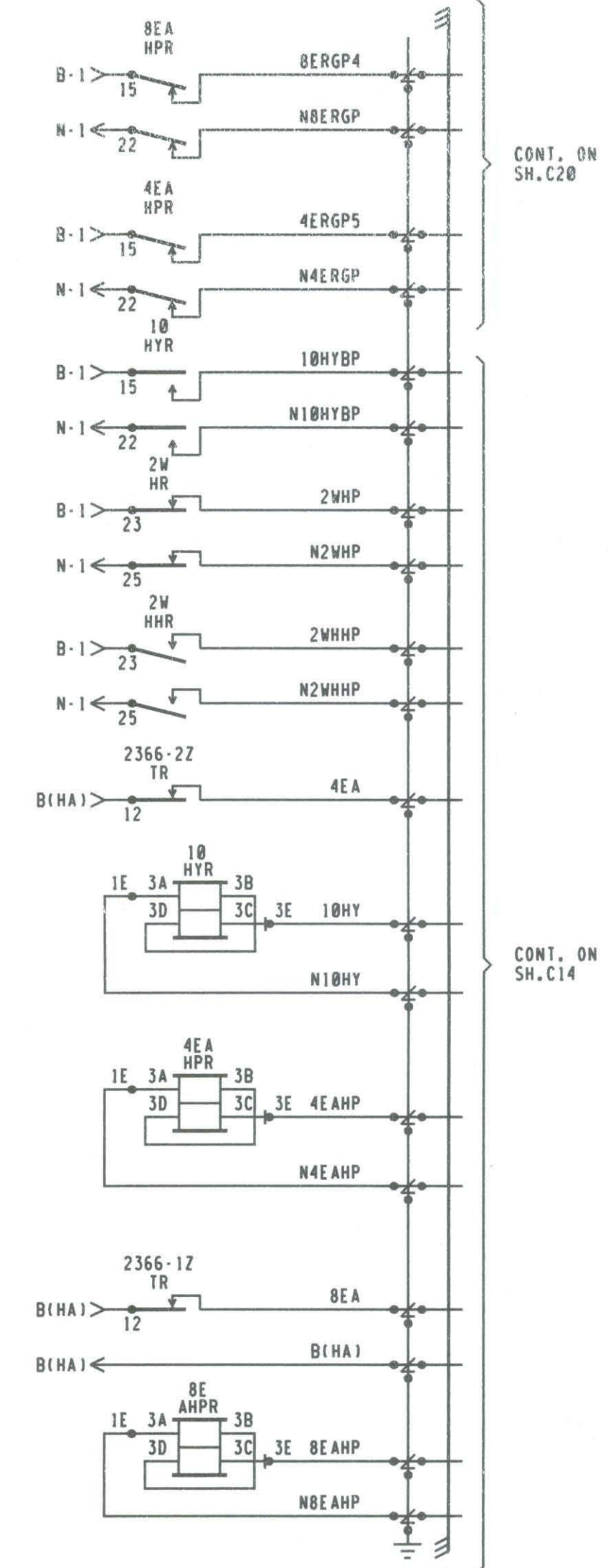
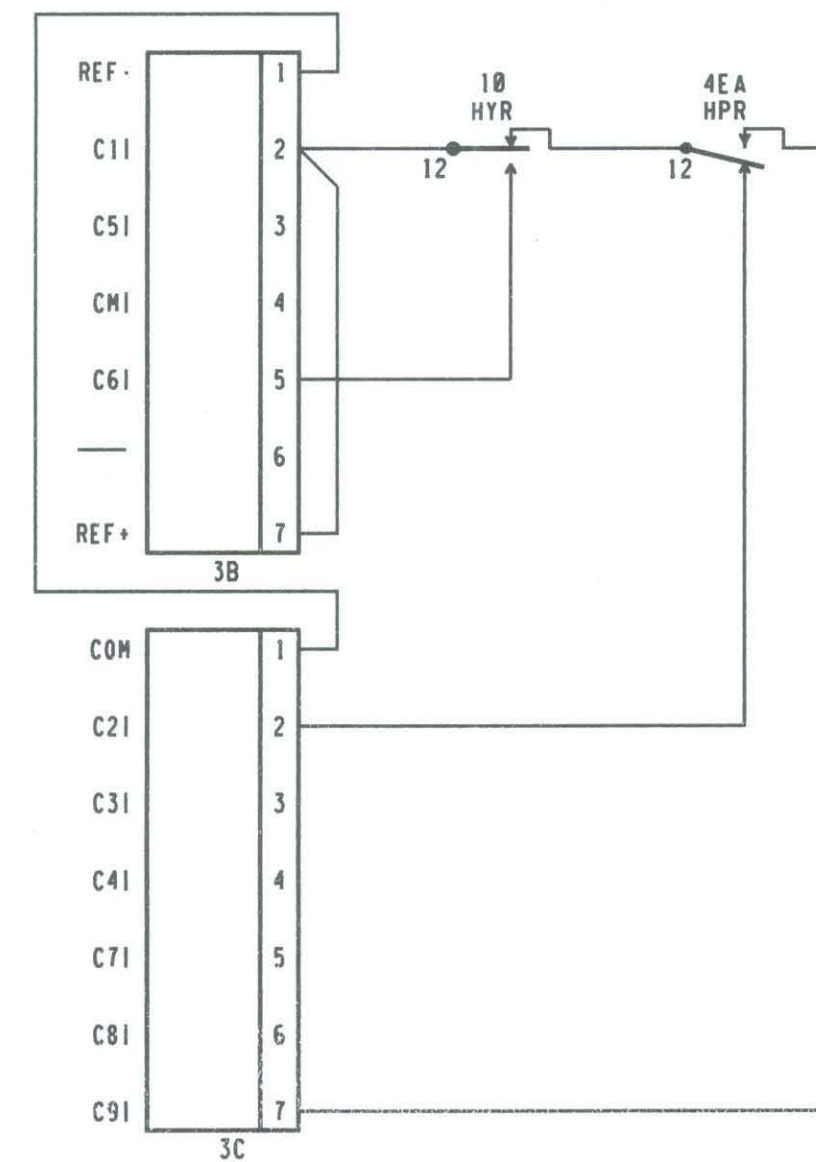
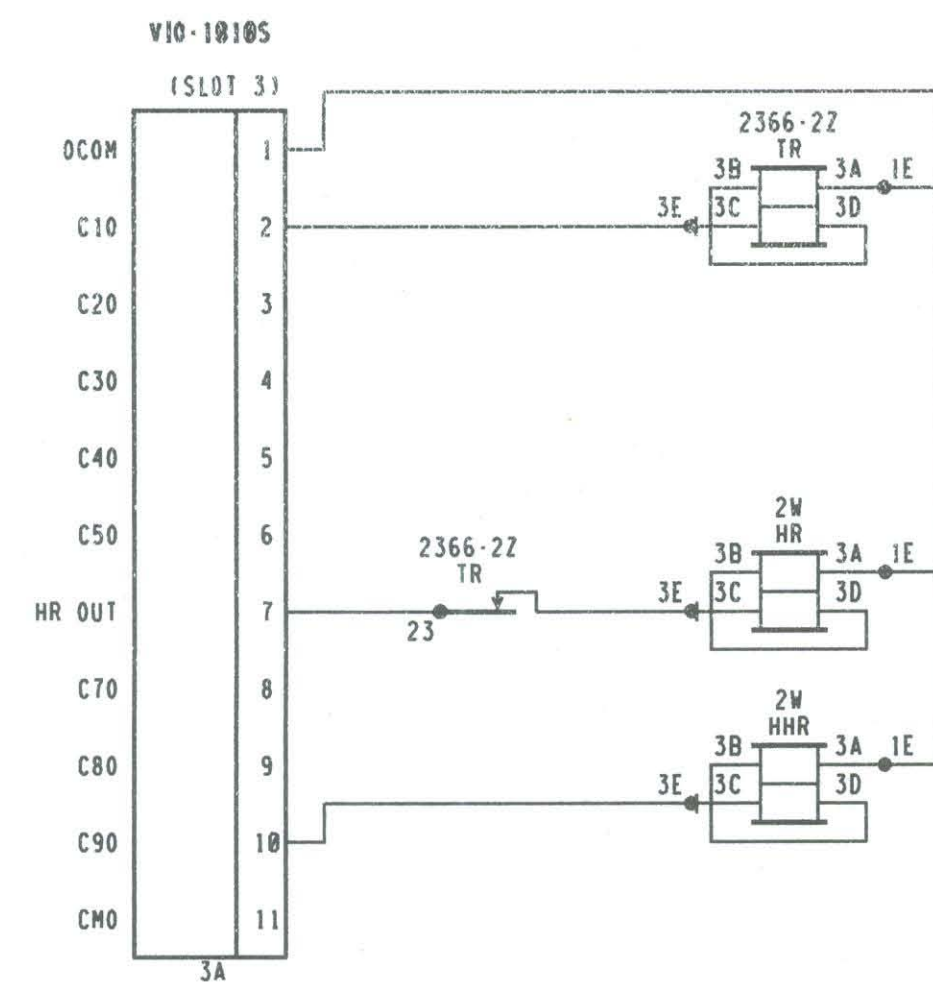
REVISIONS		CSX TRANSPORTATION			
05-08-06 SWE	IL2004014	RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
NO CHANGES		BLACK LANE TO K TOWER			
CWD0618408A 02-21-08 SWE/JWH/		NN CABIN, A & S CROSSING			
IL2006039A		ELECTRO CODE 5 END UNIT TRACK I/O			
Southwest Signal Engineering Co.		ROSE LAKE, IL M.P. BC-331.10			
DESIGNED SWE/DRJ	DIGITIZED SWE/TAL	CHECKED SWE	DATE 01-21-05		
DRAWING 1630-6	SHEET NO 5E	NEXT SH 5F	NEXT FILE BC33110	NEXT SH C07	SHEET C06



1 TRACK
EC5 END UNIT VITAL I/O

REVISIONS			CSX TRANSPORTATION RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
05-08-06 SWE		IL2004014	BLACK LANE TO K TOWER NW CABIN, A & S CROSSING ELECTRO CODE 5 END UNIT VITAL I/O (WEST TRACK #1) ROSE LAKE, IL M.P. BC-331.10			
NO CHANGES CWD0610400A IL2006039A 02-21-08 SWE/JWM/						
			DESIGNED SWE/DRJ	DIGITIZED SWE/TAL	CHECKED SWE	DATE 01-21-05
DRAWING 1630-6	SHEET NO 5F	NEXT SH 5G	NEXT FILE BC33110	NEXT SH C00	FILE BC33110	SHEET C07

(TRK 2)

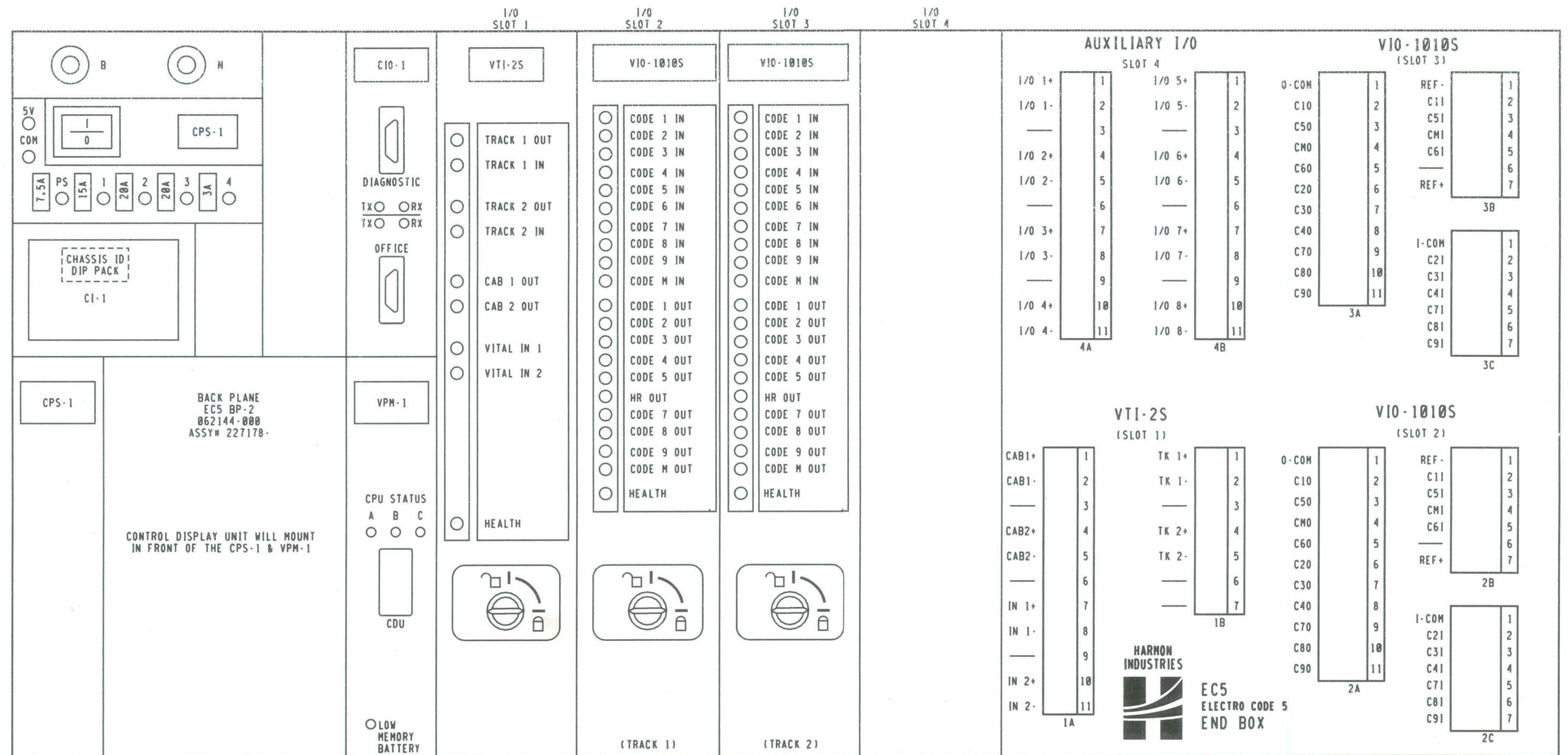


CONT. ON SH. C20

CONT. ON SH. C14

2 TRACK
EC5 END UNIT VITAL I/O

REVISIONS				CSX TRANSPORTATION			
05-08-06 SWE		IL2004014		RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
NO CHANGES				BLACK LANE TO K TOWER			
CWD0618488A		IL2006039A		HW CABIN, A & S CROSSING			
02-21-08		SWE/JWM/		ELECTRO CODE 5 END UNIT VITAL I/O (WEST TRACK #2)			
				ROSE LAKE, IL W.P. BC-331.10			
DESIGNED SWE/DRJ	DIGITIZED SWE/TAL	CHECKED SWE	DATE 01-21-05	FILE BC33110	SHEET C08		
DRAWING 1630-6	SHEET NO 5G	NEXT SH 5H	NEXT FILE BC33110	NEXT SH C09	FILE BC33110		



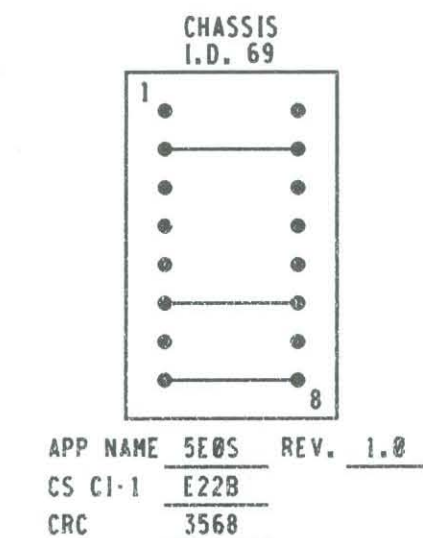
EC5 END BOX BACKPLANE (BP-2)

CDU-1 = CONTROL DISPLAY UNIT
 CPS-1 = CENTRAL POWER SUPPLY
 VPM-1 = VITAL PERIPHERAL MASTER MODULE
 CI-1 = CHASSIS INFORMATION MODULE
 CIO-1 = COMMUNICATION INPUT/OUTPUT - 1
 CIO-2 = COMMUNICATION INPUT/OUTPUT - 2
 VTI-25 = VITAL TRACK INTERFACE
 VIO-1010S = TRACK CODE SELECT INPUT/TRACK CODE DECODER OUTPUT MODULE

1T2U

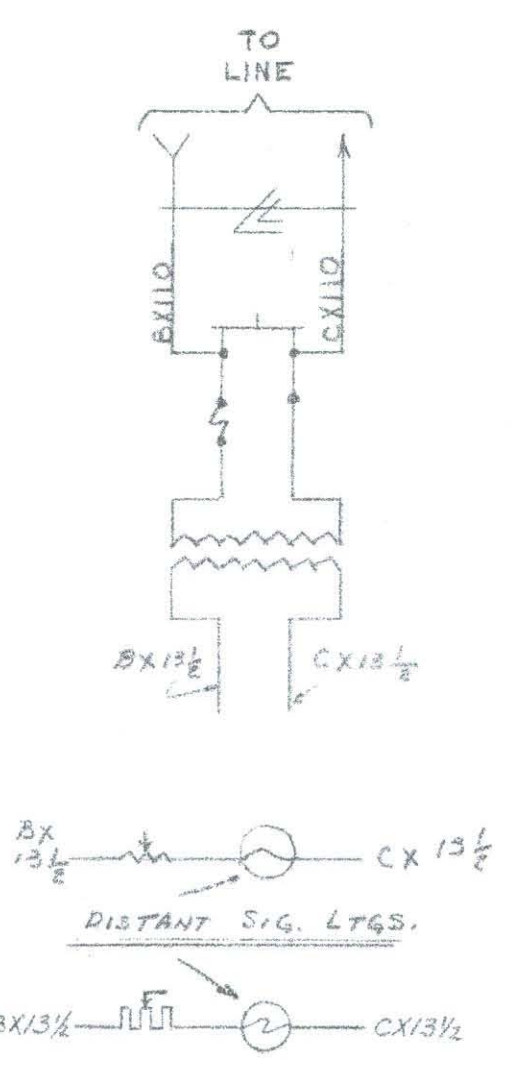
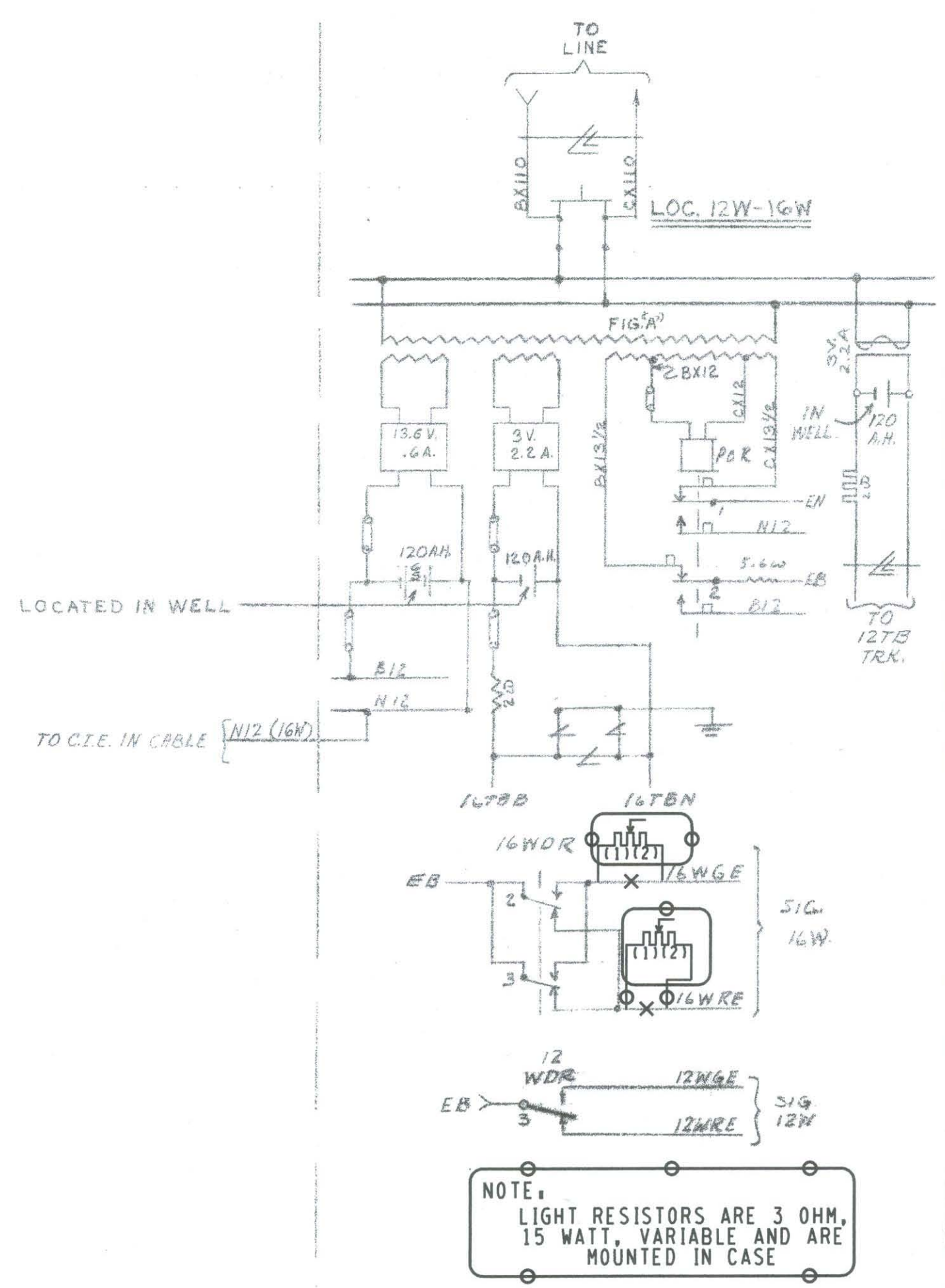
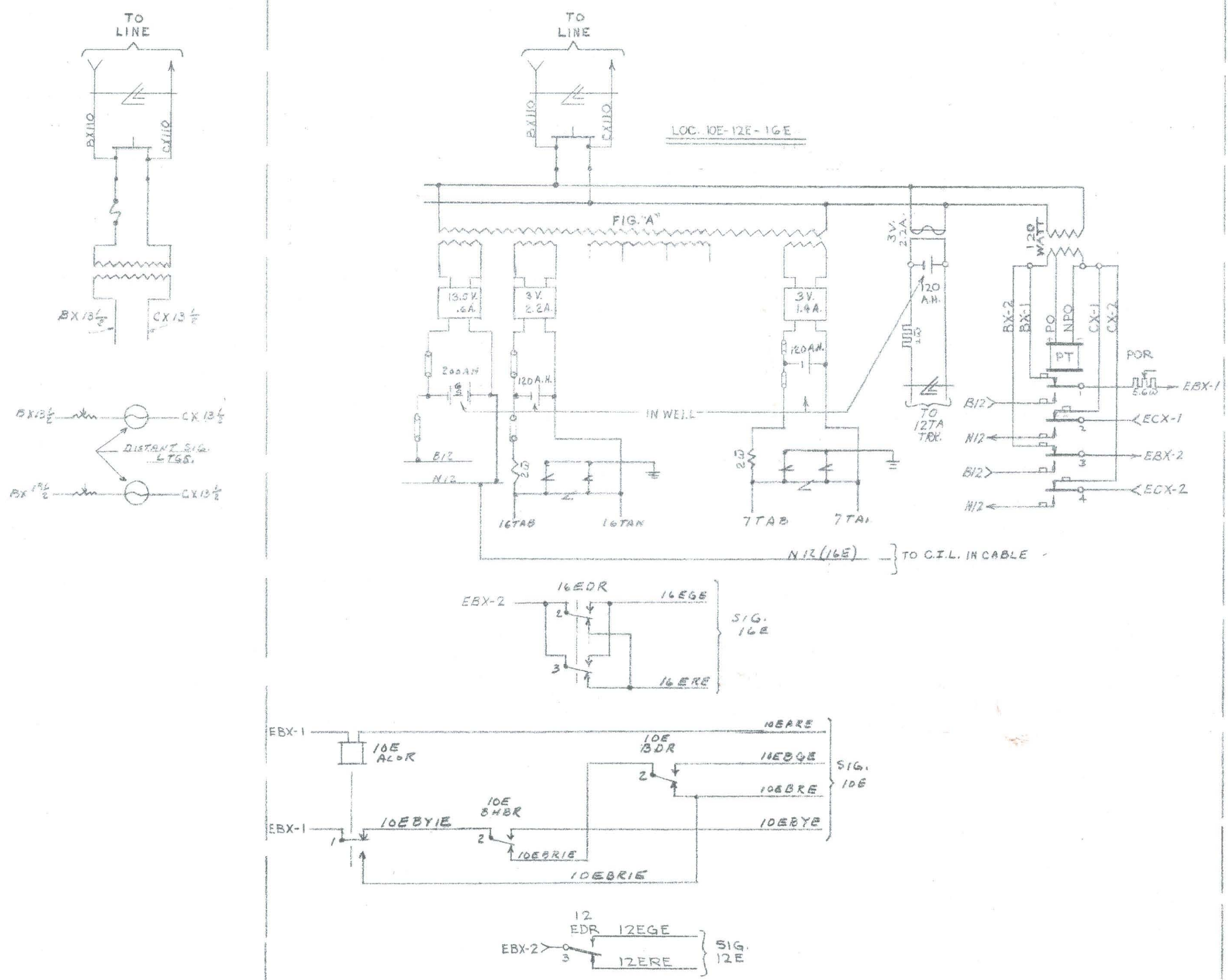
DIAGNOSTIC AND OFFICE PORT PIN ASSIGNMENT

PIN	SIGNAL	SIGNAL NAME
1	CD	CARRIER DETECT
2	RX	RECEIVE DATA
3	TX	TRANSMIT DATA
4	DTR	DTE
5	GND	COMMON SIGNAL RETURN
6	DSR	DCE
7	RTS	REQUEST TO SEND
8	CTS	CLEAR TO SEND
9	RI	RING INDICATOR



EC5 END UNIT

REVISIONS		CSX TRANSPORTATION	
05-08-06 SWE	IL2004014	RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS	
NO CHANGES		BLACK LANE TO K TOWER	
CMD0618488A	IL2006039A	NN CABIN, A & S CROSSING	
02-21-08	SWE/JWM	ELECTRO CODE 5 END UNIT BACKPLANE (BP-2)	
Southwest Signal Engineering Co.		ROSE LAKE, IL N.P. BC-331.10	
DESIGNED SWE/DRJ	DIGITIZED SWE/TAL	CHECKED SWE	DATE 01-21-05
DRAWING 1630-6	SHEET NO 5H	NEXT FILE BC33110	NEXT SH C10
NEXT SH 6	FILE BC33110	SHEET C09	



THIS PLAN DOES DOES NOT
 SUPERSEDE PLAN DATED 11-05-06
 CSX PROJECT # IL2006039

○ = IN
 × = OUT

CND0618488A 112006039A
 02-21-08 SWE/JWH/MJH

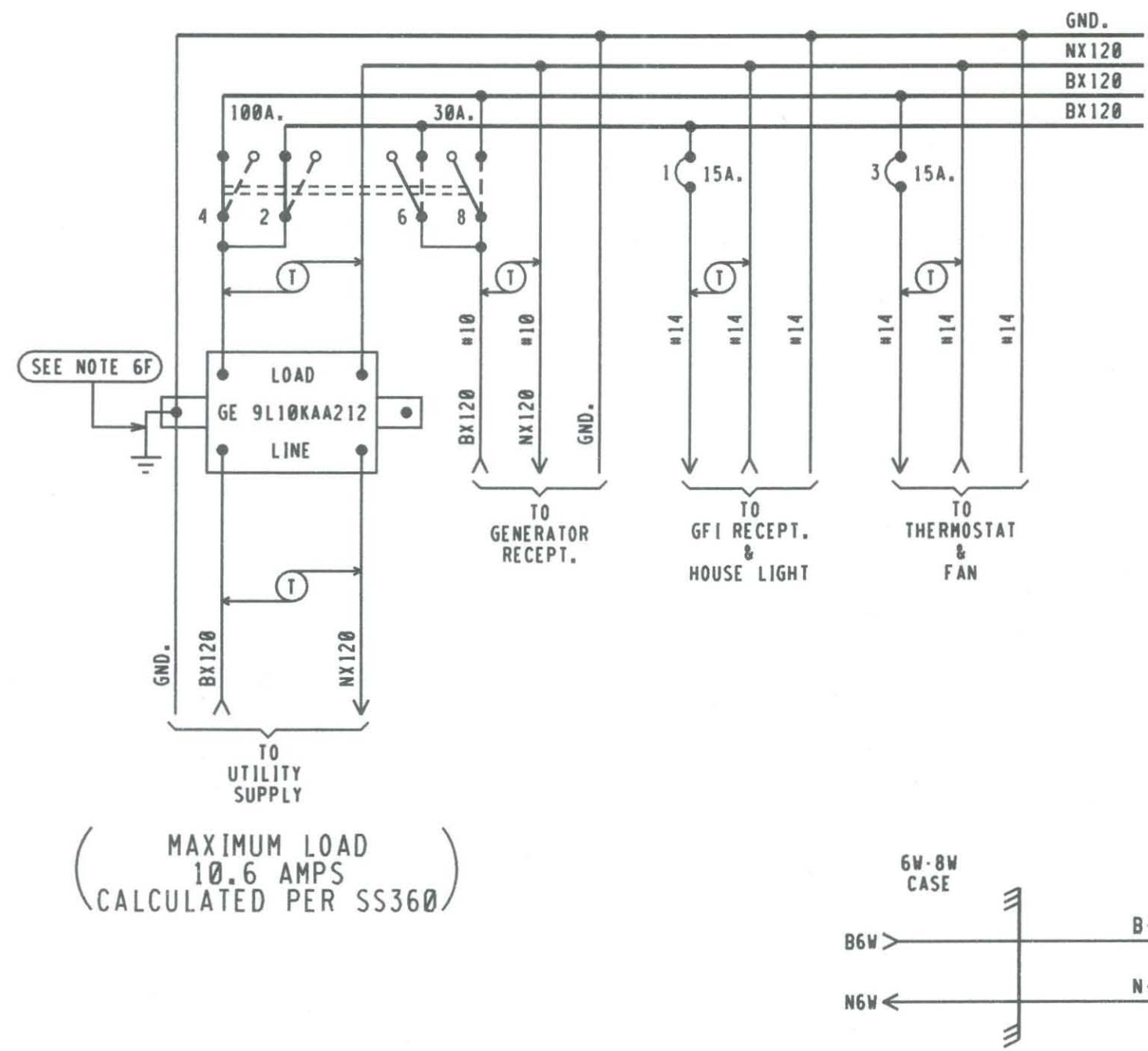
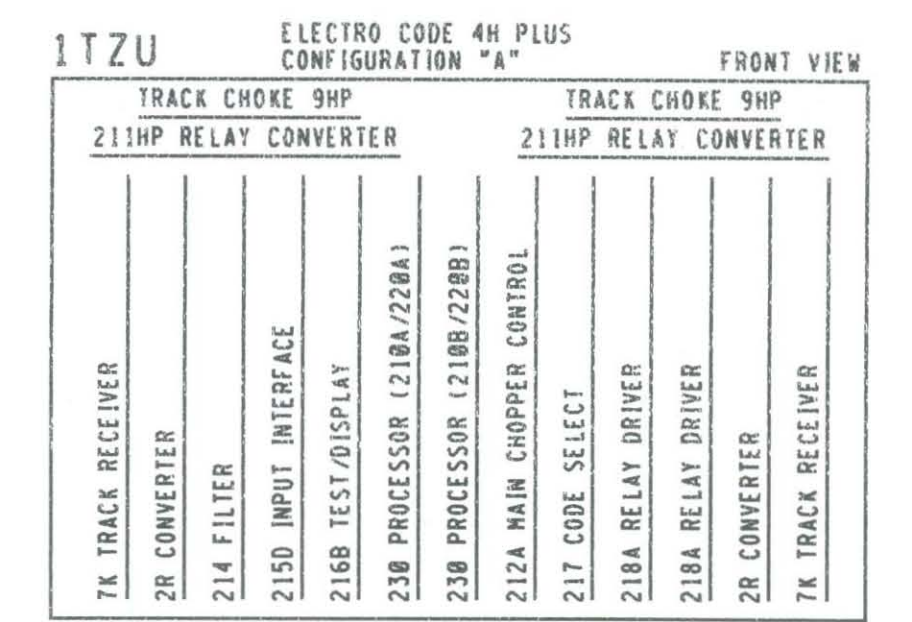
Southwest
 Signal Engineering Co.

REVISIONS		CSX TRANSPORTATION			
12-13-72 REPORT M.D.H. 10-5-72		RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
05-08-06 VECTOR CREATED BY SWE		112004014			
BLACK LANE TO K TOWER					
HW CABIN, A & S CROSSING POWER SUPPLY & SIGNAL LIGHTING ROSE LAKE, IL M.P. BC-331.10					
DESIGNED CSX	DIGITIZED SWE	CHECKED CSX	DATE 05-08-06		
DRAWING 1630-6	SHEET NO 6	NEXT SH 7	NEXT FILE BC33110	NEXT SH C11	FILE BC33110
				SHEET C10	

(TOP ROW)

8WAAR		8EDR		8EBDR		8EHR		4EHR		6WAAR		42LHYR		4HYR	
12		12	FB B8	12	FB B8	12	FB B8	12	FB B8	12	FB B8	12	FB B8	12	FB B8
15	C30	15	FB C30	15	FB C30	15	FB C30	15	FB C30	15	FB C30	15	FB C30	15	FB C30
22		22		22	B C30	22	B C30	22		22		22		22	
23	F	23		23	F	23	F	23	F	23	F	23		23	
25	F	25		25	F	25	F	25	F	25	F	25		25	
32		32		32		32		32		32		32		32	
35		35		35		35		35		35		35		35	

SAYR		IAYR	
12	B8	12	B8
15	C30	15	C30
22		22	
23	F	23	F
25		25	
32		32	
35		35	



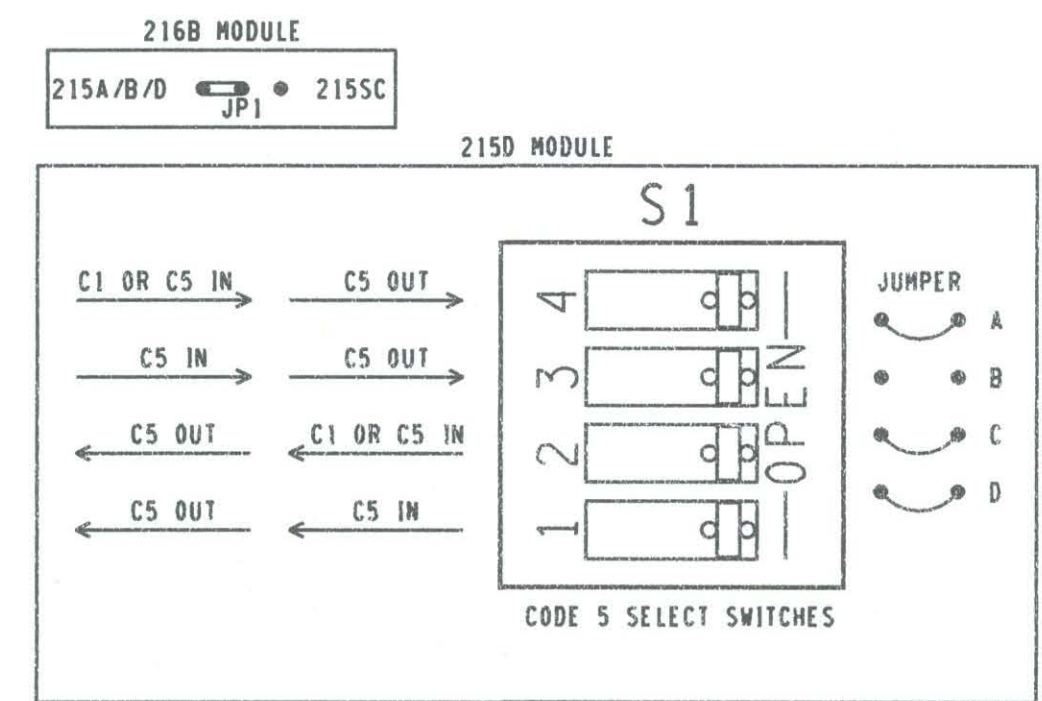
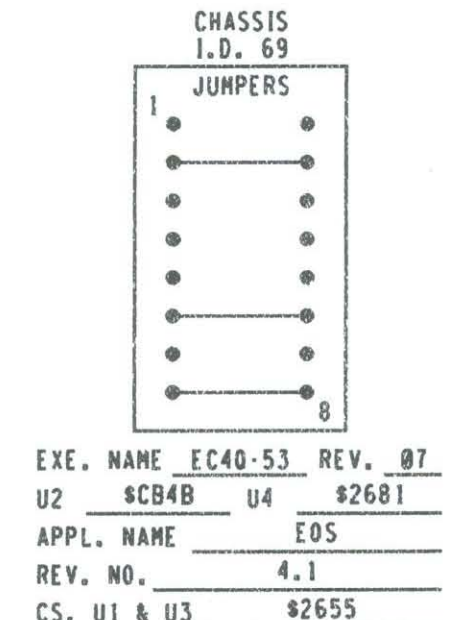
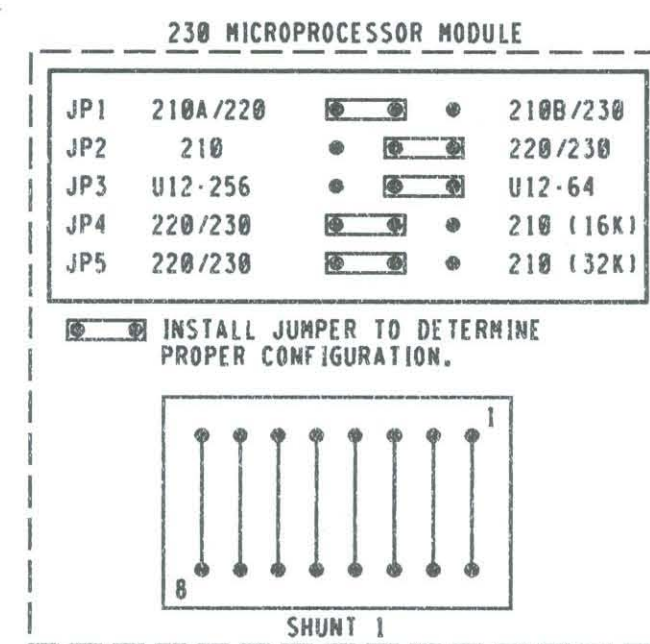
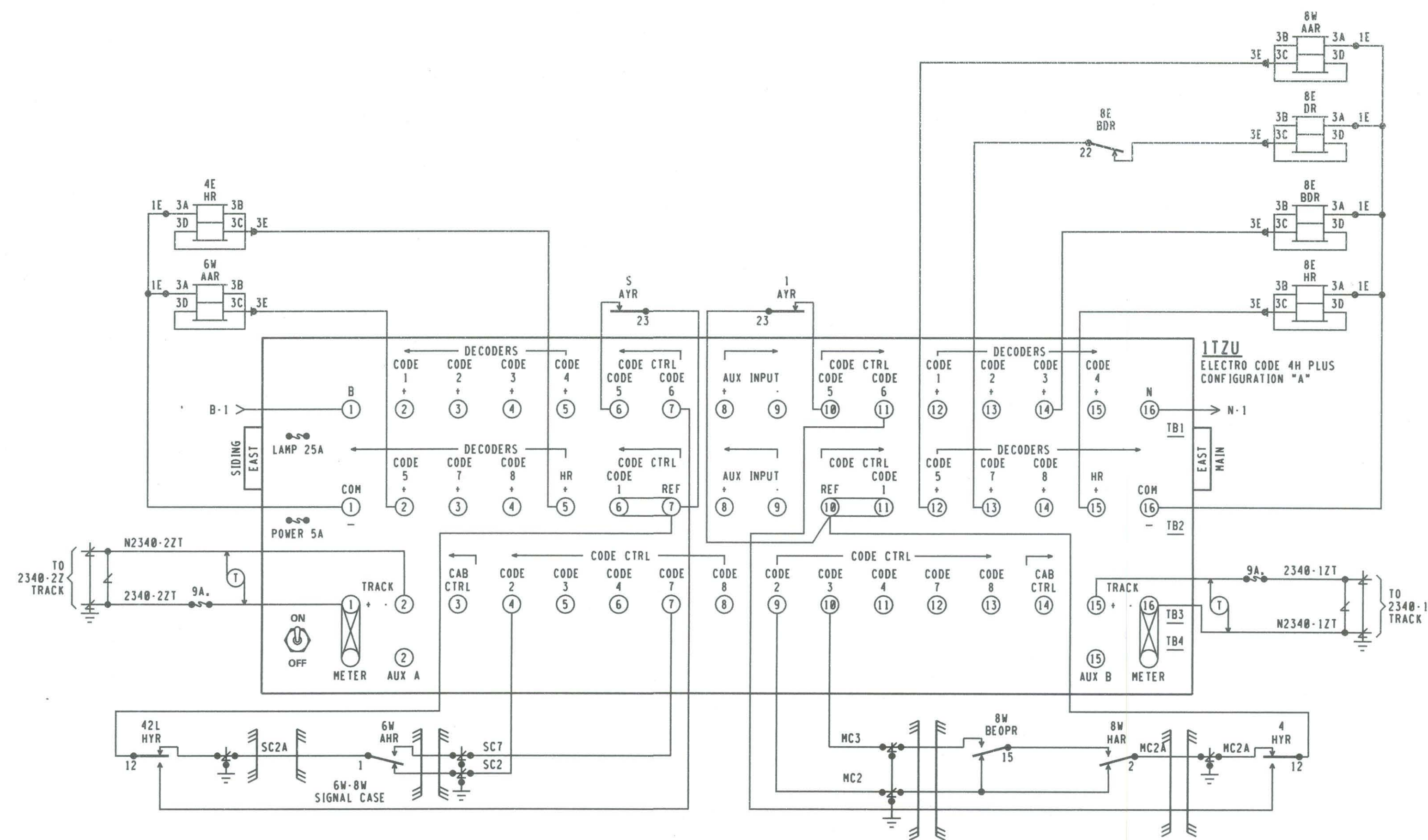
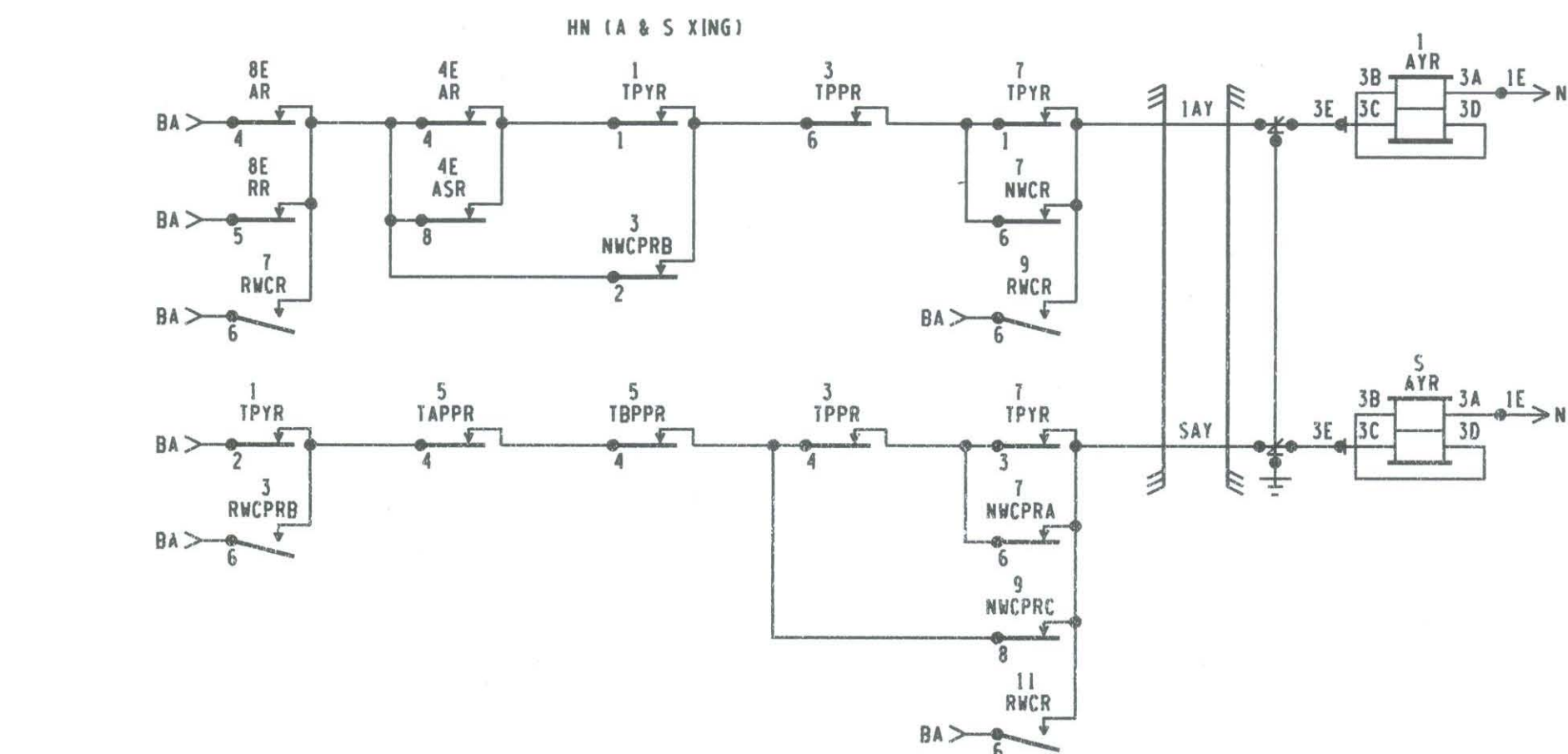
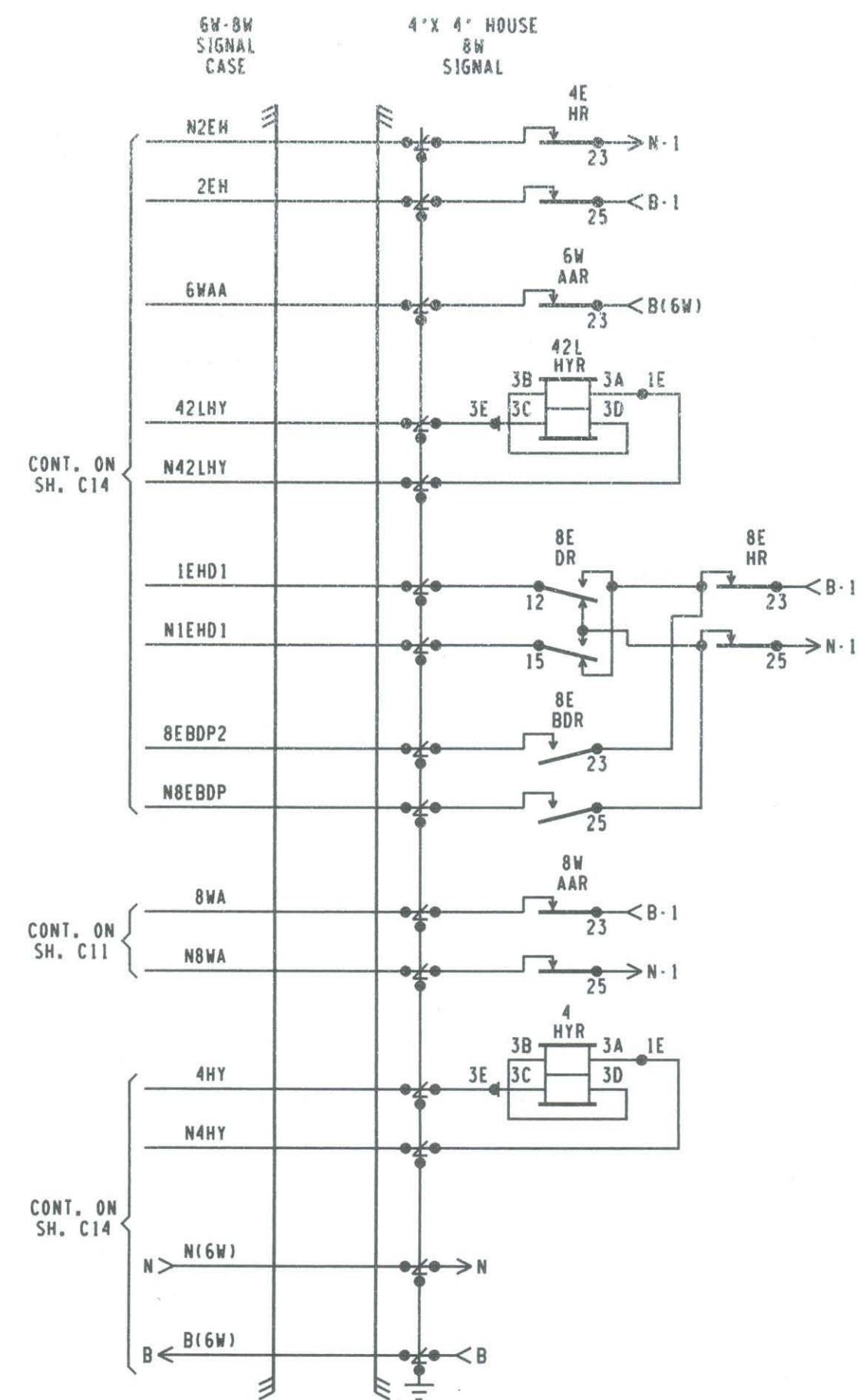
- NOTES:
- REFERENCES ARE PER SCHS-13.
 - ARRESTERS ARE PER SS302.
 - SHELF RELAY PLACEMENT ON CONSIST CHART HAS NO SIGNIFICANCE.
 - PLUG-IN RELAYS ARE VIEWED FROM THE FRONT OF RACK.
 - BATTERY A.H. CAPACITY SHOWN IS THE MINIMUM REQUIREMENT.
 - WIRING
 - A - FEED TO ALL BUSSES, LIGHT CIRCUITS, MOTOR CIRCUITS TO BE #10 FLEX.
 - B - 120-VOLT FEED FROM ENTRANCE TO POWER BUSS TO BE #10 FLEX.
 - C - ALL TRACK WIRES TO BE #10 FLEX.
 - D - ALL OTHERS TO BE #16 FLEX UNLESS NOTED.
 - E - BATTERY OUTPUTS TO BE #6 TWISTED PAIR PER SS360.
 - F - GROUND WIRE NOT NECESSARY WHEN GE ARRESTER IS MOUNTED ON GROUND PLANE OR METAL ENCLOSURE AFFIXED DIRECTLY TO BUNGALOW METALLIC STRUCTURAL MEMBER.
 - CIRCUIT INTERRUPTERS 2 & 4 ARE MECHANICALLY INTERLOCKED WITH CIRCUIT INTERRUPTERS 6 & 8.
 - ⚡ = LPC-10512-1 (15A, BLUE LEAD) HYBRID LOW VOLTAGE ARRESTER, UNLESS NOTED.

4' X 4' RELAY HOUSE

REVISIONS		 RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS				
04-06-04 SWE	IL2003001	BLACK LANE TO K TOWER HW CABIN, A & S CROSSING POWER DISTRIBUTION 8W SIGNAL HOUSE, H.P. BC-331.10				
09-24-04 SWE	IL2003001					
05-08-06 SWE	IL2004014					
DESIGNED SWE/JRW	DIGITIZED SWE/JSH	CHECKED SWE/JLM	DATE 09-30-03			
DRAWING 1630-6	SHEET NO 8	NEXT SH 9	NEXT FILE BC33110	NEXT SH C13	FILE BC33110	SHEET C12

NO CHANGES
 CVD0610488A 02-21-08
 IL2006039A SWE/JWW/

 Southwest Signal Engineering Co.



NO CHANGES
CWD0618488A 1L2006039A
02-21-08 SWE/JWH/

Southwest Signal Engineering Co.

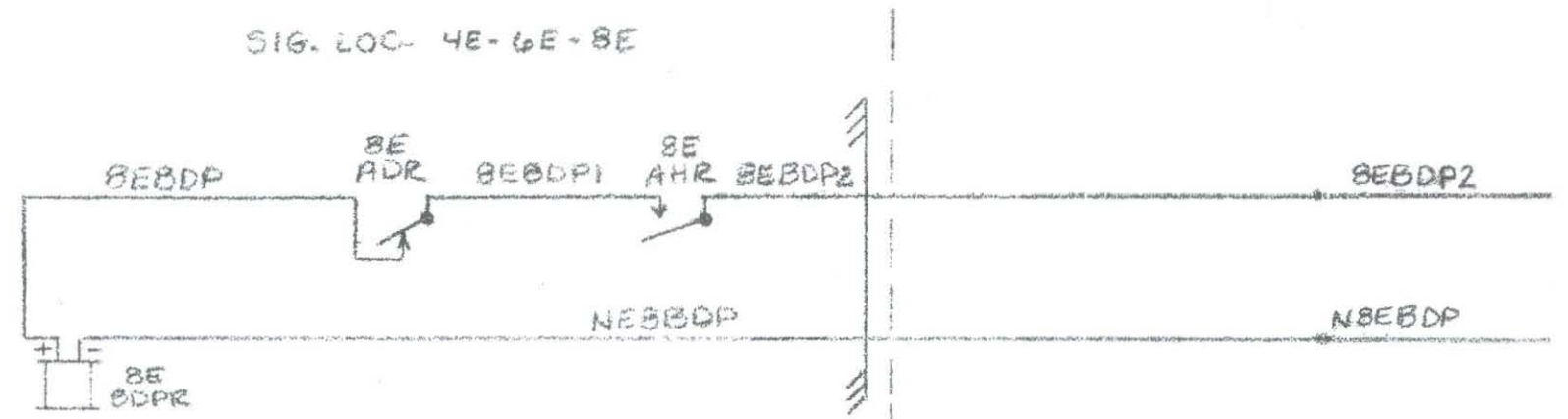
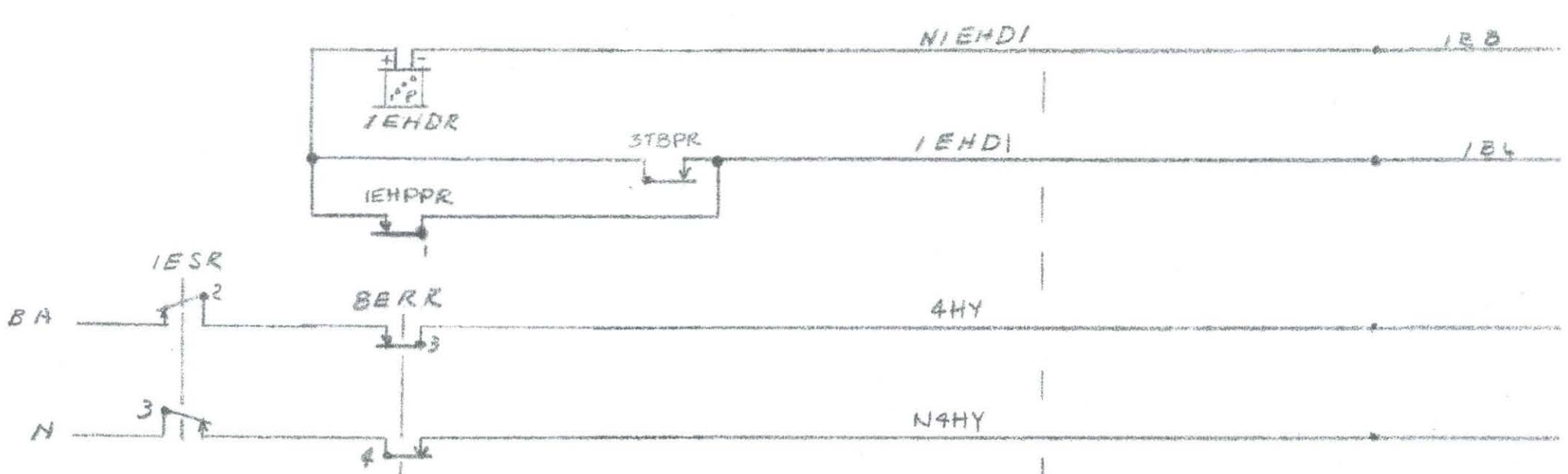
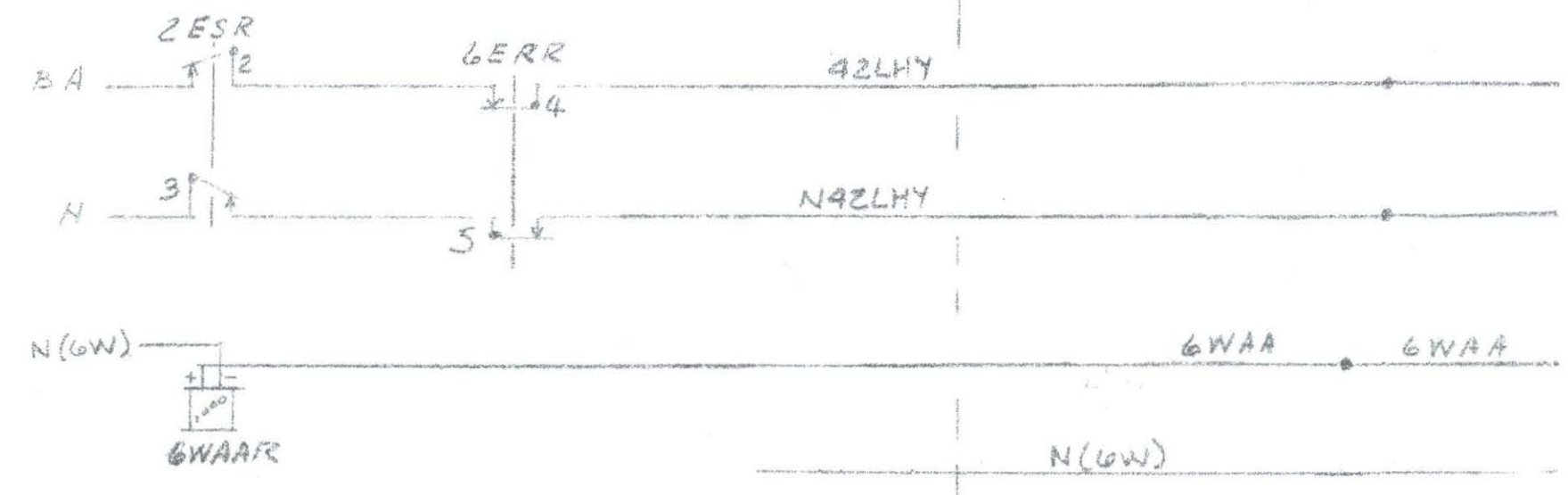
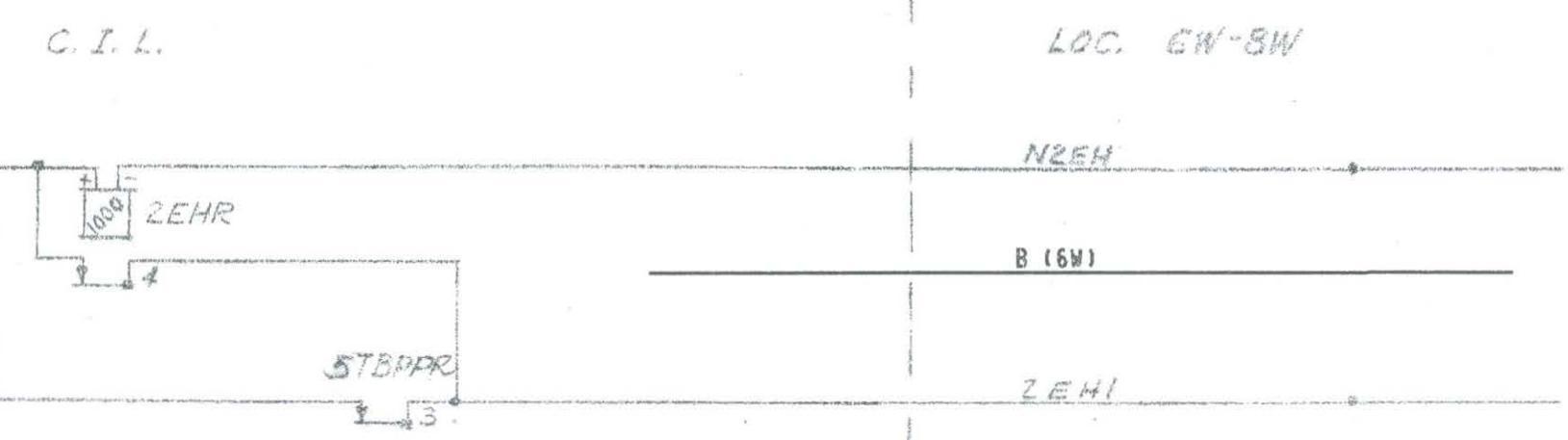
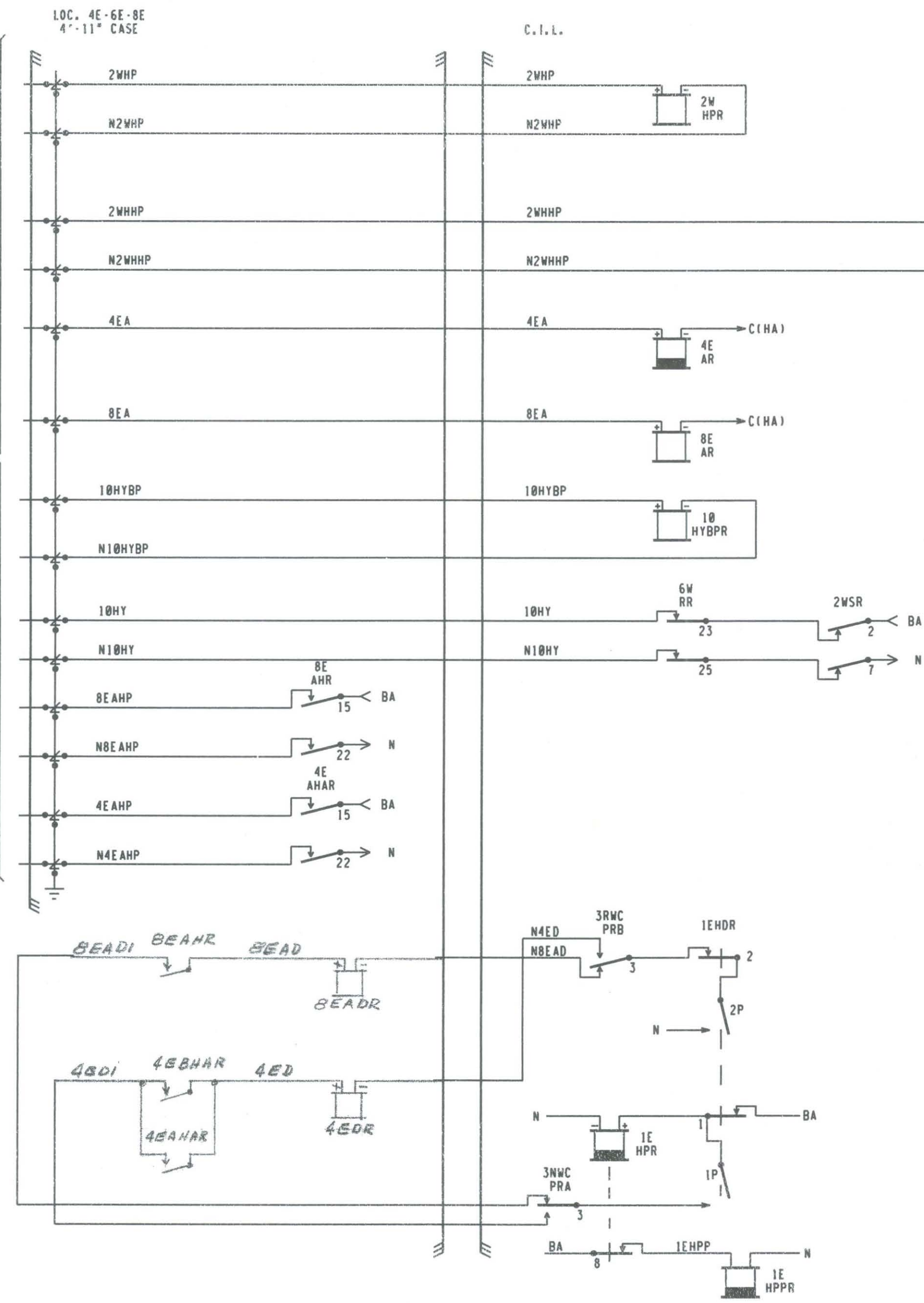
NOTES:
1. CODE 2 DECODER TERMINALS TB1-3 & TB1-13 PROGRAMMED TO OUTPUT CODE M.
2. AUX INPUT TERMINALS TB1-8 & TB1-9 ARE USED TO TRANSMIT "M" CODE TO THE RIGHT.
3. AUX INPUT TERMINALS TB2-8 & TB2-9 ARE USED TO TRANSMIT "M" CODE TO THE LEFT.
IF "M" CODE IS NOT NEEDED, DO NOT HOOK UP.
4. LVC-10512-1 (15A, BLUE LEAD) HYBRID LOW VOLTAGE ARRESTER, UNLESS NOTED.

4' X 4' RELAY HOUSE

REVISIONS		DRAWING	
04-06-04 SWE	1L2003001, 1L2003001A	1630-6	9
09-24-04 SWE	1L2003001		
08-22-05 SWE	1L2004010		
05-08-06 SWE	1L2004014		

RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
BLACK LANE TO K TOWER			
RR CABIN, A & S CROSSING			
EC4H PLUS CIRCUITS			
8W SIGNAL LOCATION, H.P. BC-331.10			
DESIGNED	DIGITIZED	CHECKED	DATE
SWE/JRW	SWE/JSH	SWE/JJM	09-30-03
DRAWING	SHEET NO	NEXT SH	NEXT FILE
1630-6	9	10	BC33110
NEXT SH	FILE	SHEET	
C14	BC33110	C13	

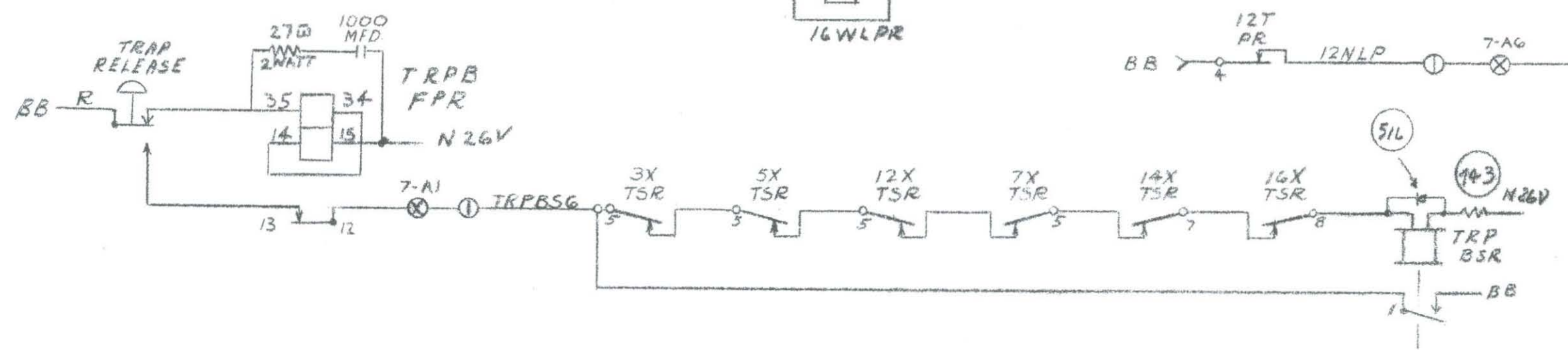
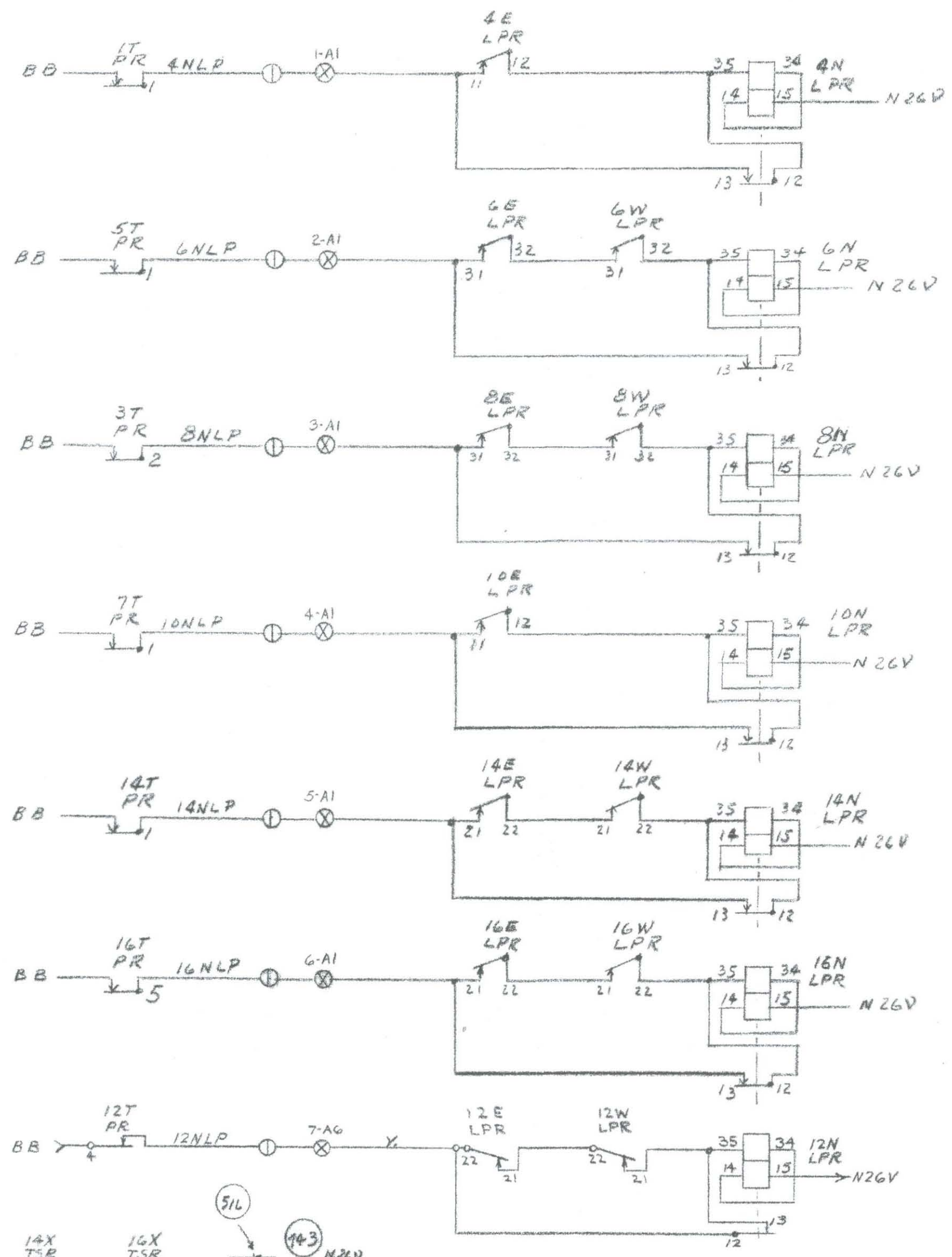
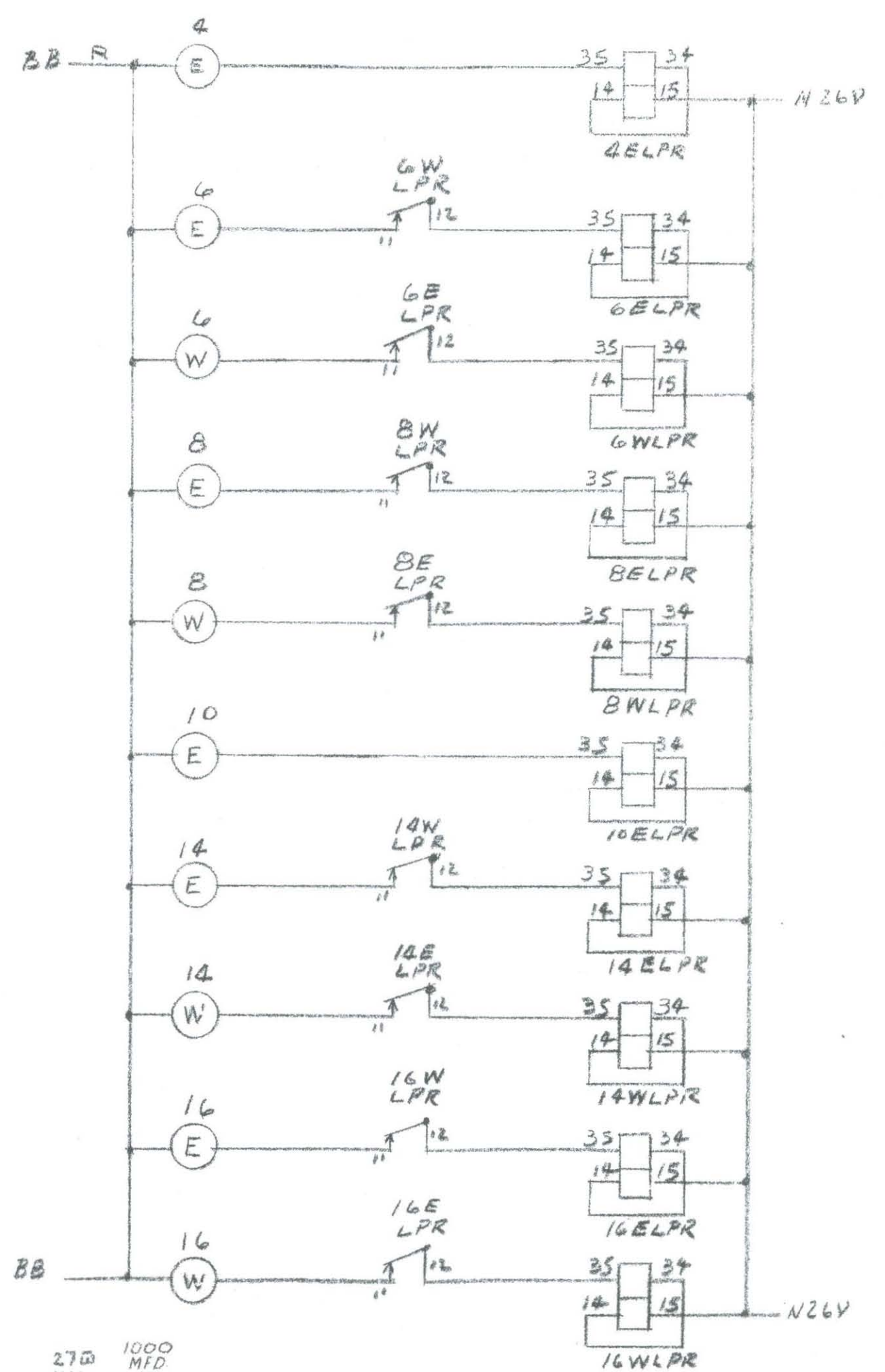
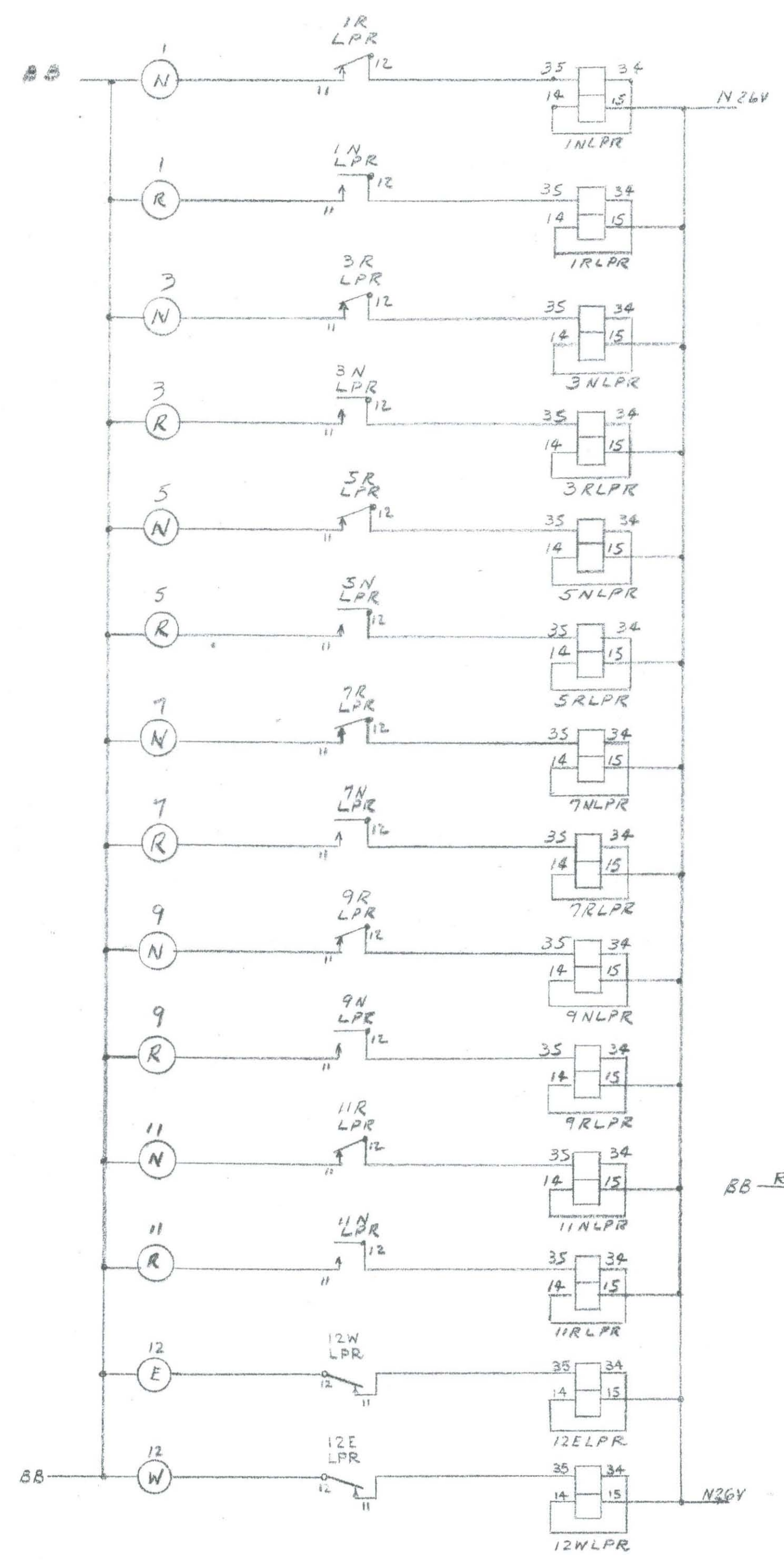
CONT. ON SH. C08



CONT. ON SH. C13

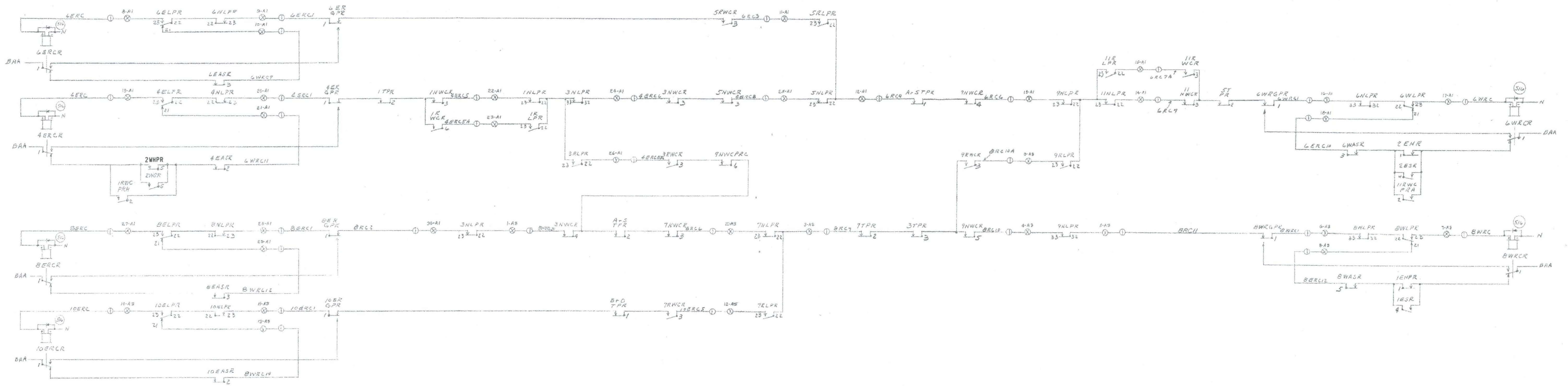
NO CHANGES
 CW00618488A 02-21-08
 IL2006039A SWE/JWM/
Southwest
 Signal Engineering Co.

REVISIONS		CSX TRANSPORTATION				
04-06-04 SWE	IL2003001	RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS				
05-08-06 VECTOR CREATED BY SWE	IL2004014	BLACK LANE TO K TOWER				
		MM CABIN, A & S CROSSING				
		"HD" LINE CIRCUITS				
		ROSE LAKE, IL M.P. BC-331.10				
DESIGNED	DIGITIZED	CHECKED	DATE			
CSX	SWE	CSX	01-21-05			
DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
1630-6	10	11	BC33110	C15	BC33110	C14



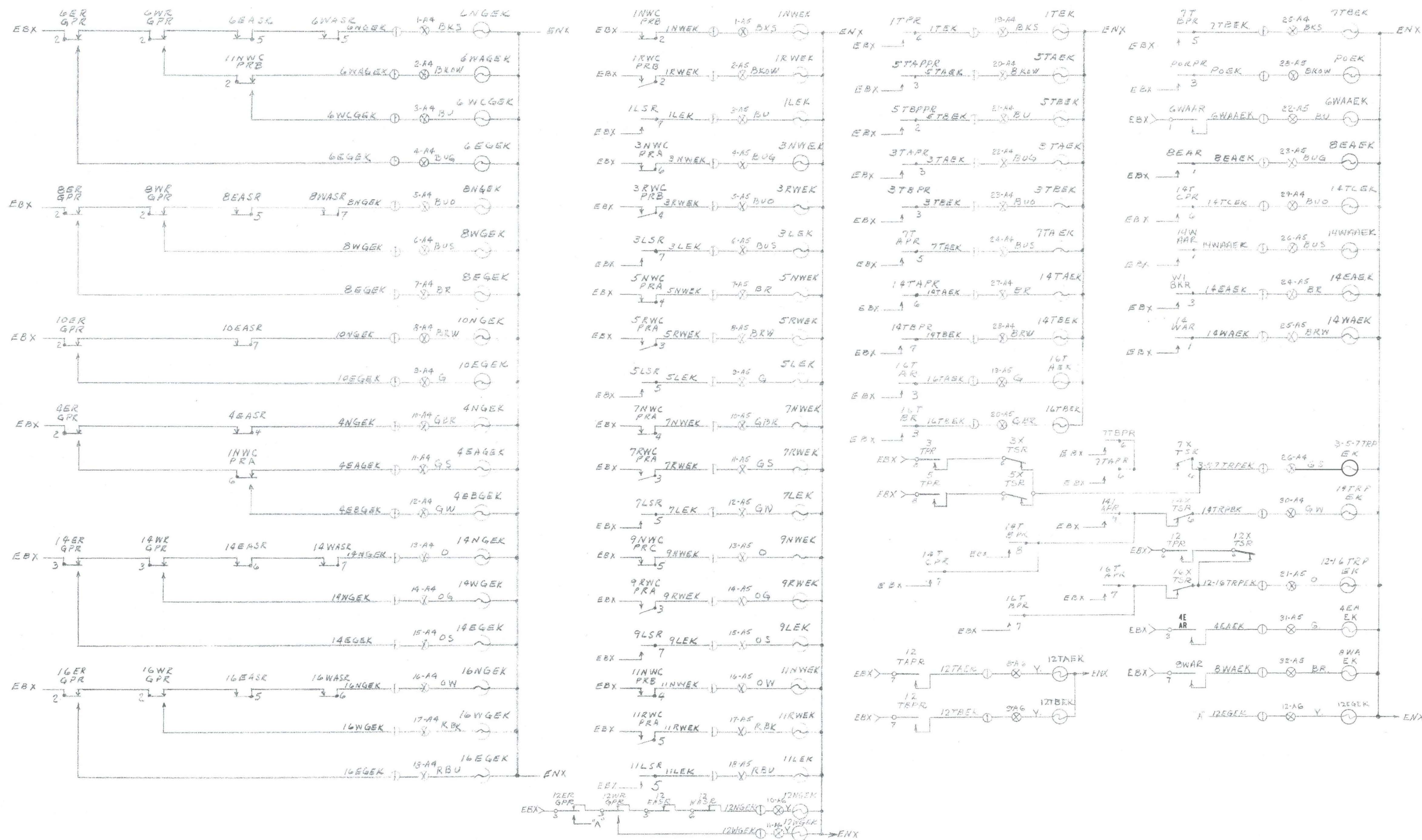
NO CHANGES
 CWD0618488A IL2006039A
 02-21-08 SWE/JWM/
Southwest
 Signal Engineering Co.

REVISIONS		CSX TRANSPORTATION	
04-06-04 SWE	IL2003001	RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS	
05-08-06	IL2004014	VECTOR CREATED BY SWE	
BLACK LANE TO K TOWER			
MIN CABIN, A O S CROSSING NON-VITAL RELAY CONTROLS ROSE LAKE, IL H.P. BC-331.10			
DESIGNED CSX	DIGITIZED SWE	CHECKED CSX	DATE 05-08-06
DRAWING 1630-6	SHEET NO 11	NEXT SH 12	NEXT FILE BC33110
			NEXT SH C16
			FILE BC33110
			SHEET C15



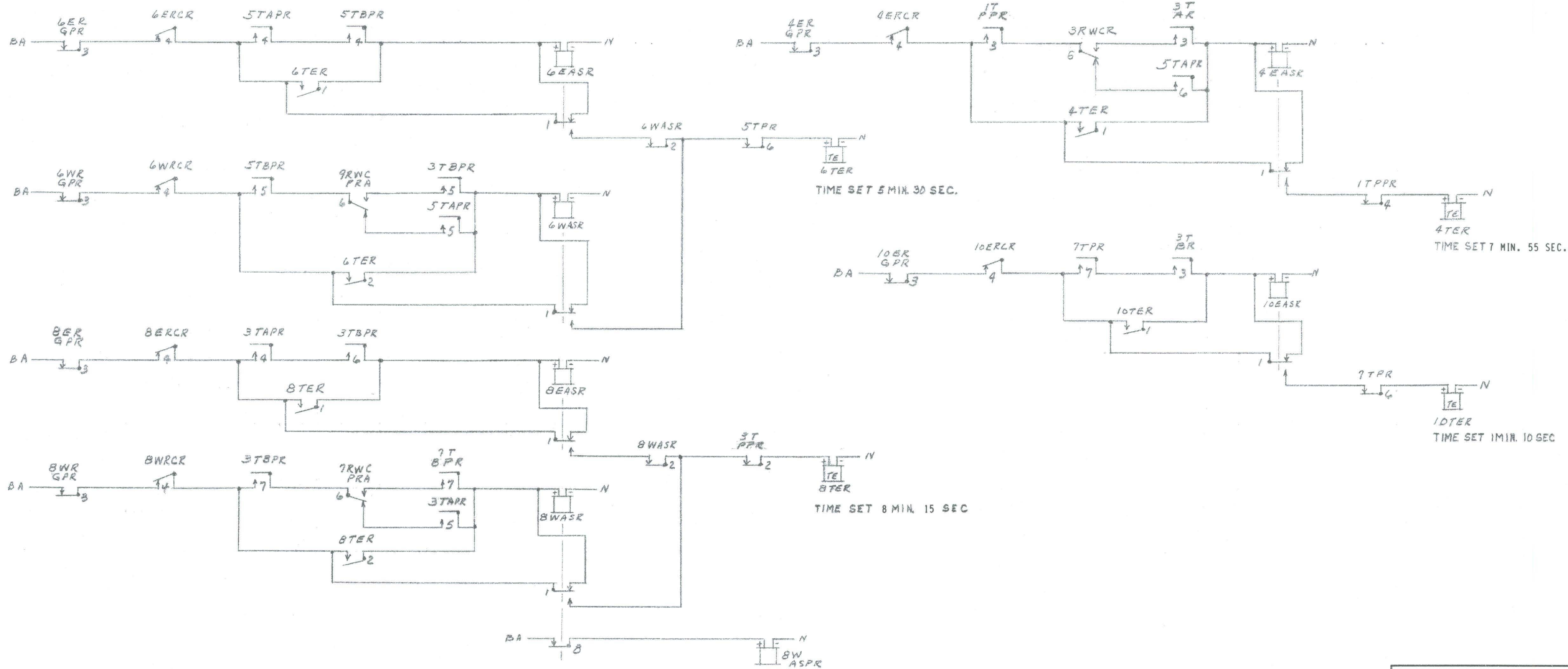
NO CHANGES
 CWD0618488A 02-21-08 SWE/JWM/ IL2006039A
 Southwest Signal Engineering Co.

REVISIONS		CSX TRANSPORTATION			
3-24-72 REPORT R.W.A. 1-12-72		RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
05-08-06 VECTOR CREATED BY SWE IL2004014		BLACK LANE TO K TOWER NN CABIN, A & S CROSSING ROUTE CHECK NETWORK ROSE LAKE, IL H.P. BC-331.10			
DESIGNED CSX	DIGITIZED SWE	CHECKED CSX	DATE 05-08-06		
DRAWING 1630-6	SHEET NO 12	NEXT SH 13	NEXT FILE BC33110	NEXT SH C17	SHEET C16



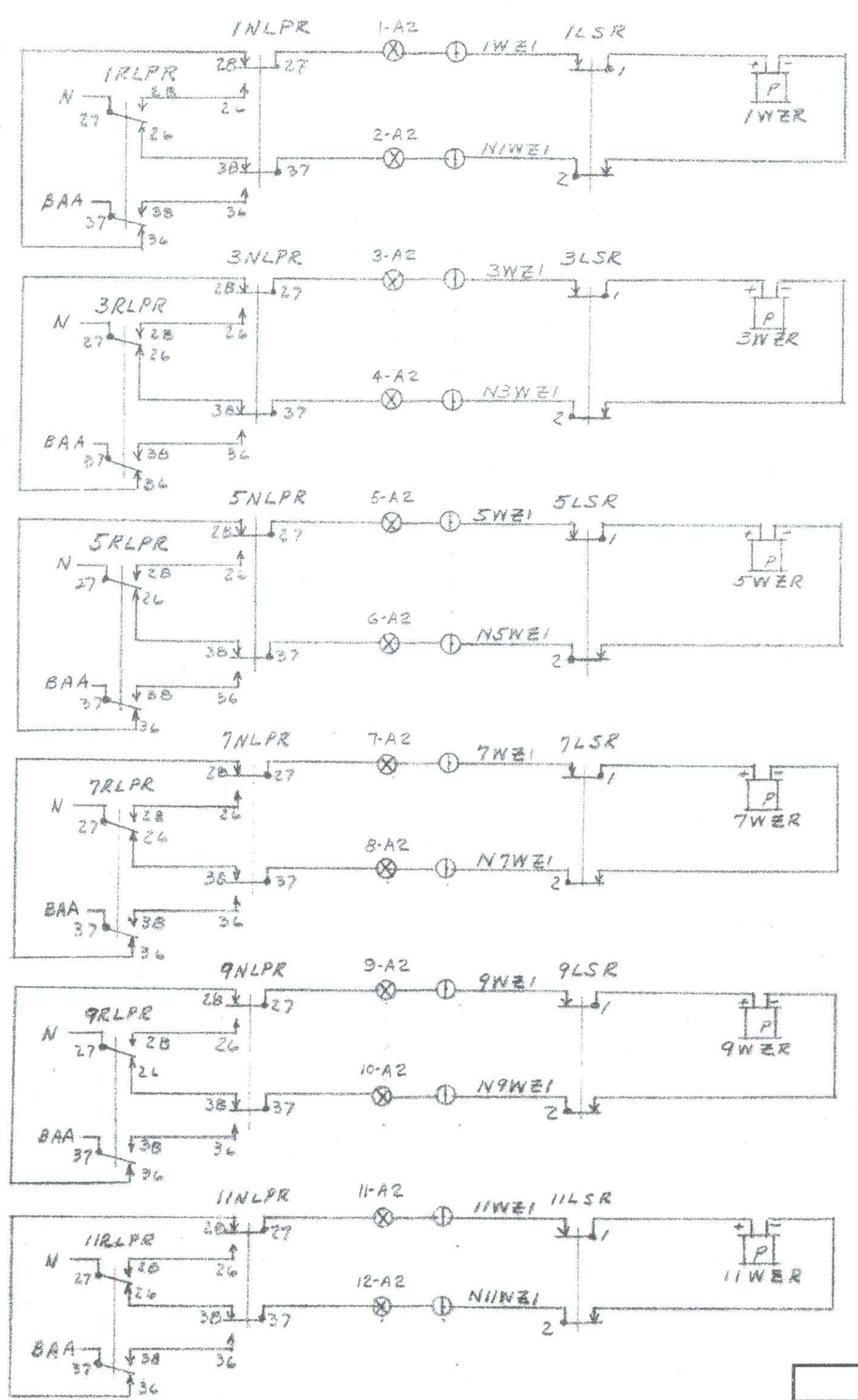
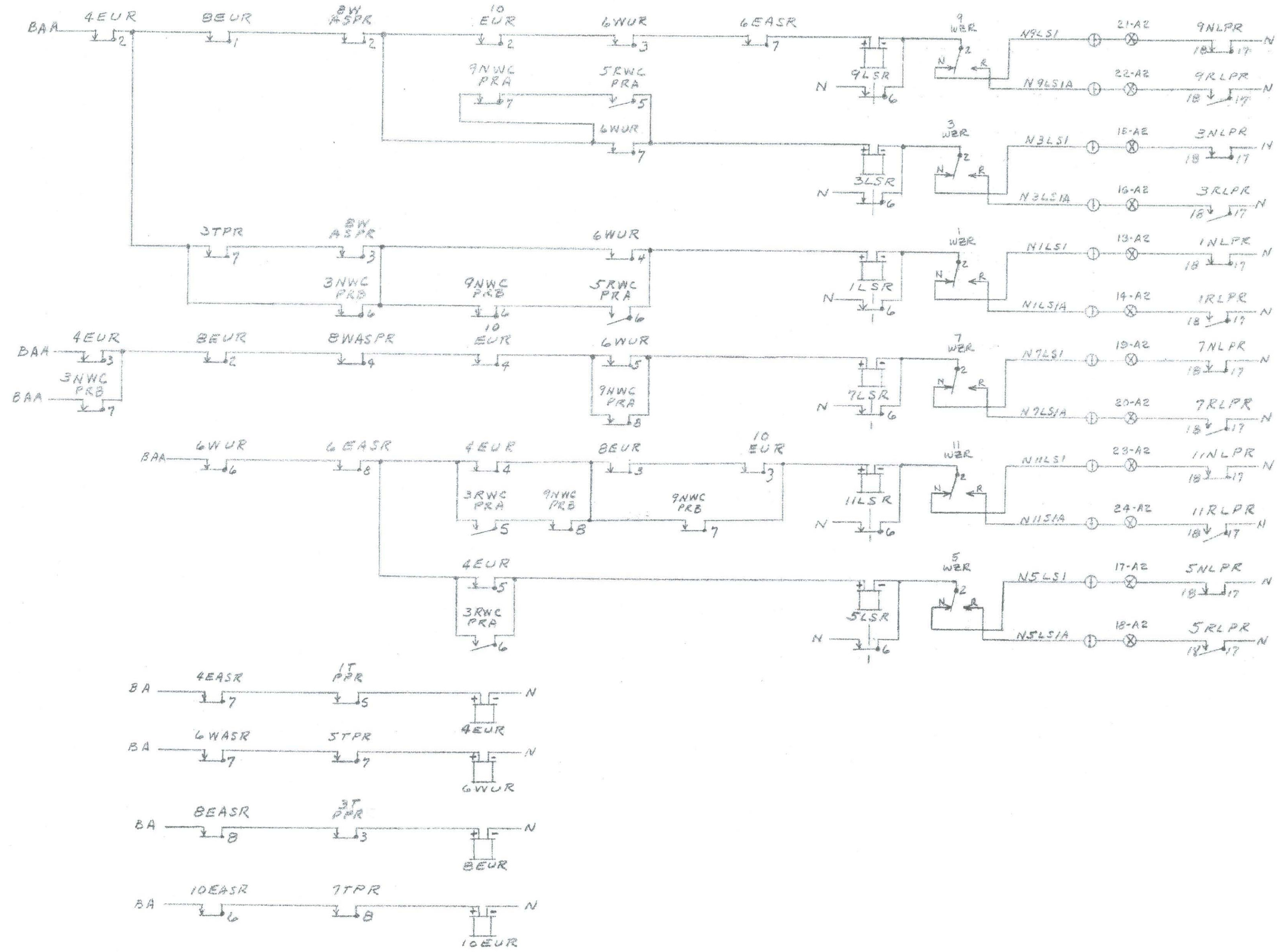
NO CHANGES
 CWD0618488A 1L2006039A
 02-21-08 SWE/JWM/
Southwest
 Signal Engineering Co.

REVISIONS			CSX TRANSPORTATION RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
10-7-93	IL92069	SWE	BLACK LANE TO K TOWER HW CABIN, A & S CROSSING INDICATION LIGHTS ROSE LAKE, IL H.P. BC-331.10			
04-06-04	SWE	IL2003001	DESIGNED	DIGITIZED	CHECKED	DATE
05-08-06	VECTOR CREATED BY SWE	IL2004014	CSX	SWE	CSX	05-08-06
DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
1630-6	15	16	BC33110	C20	BC33110	C19



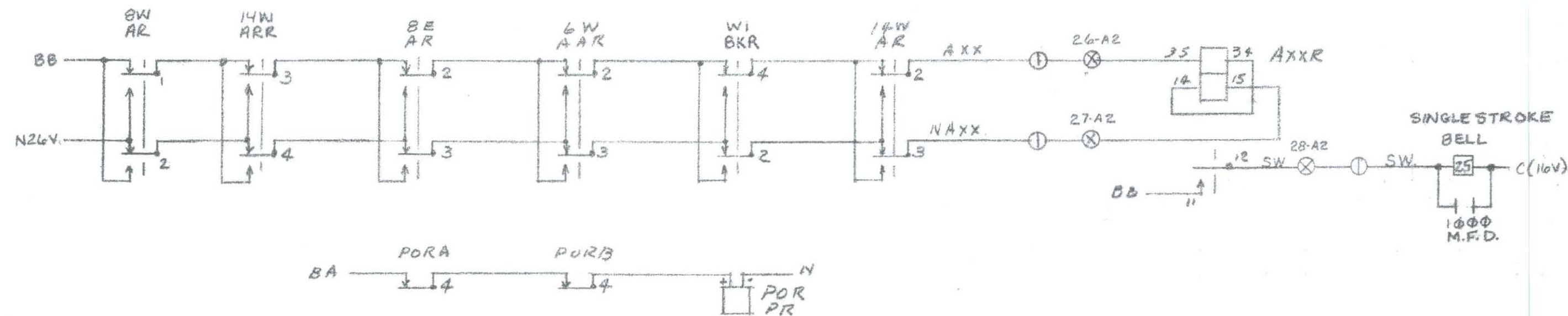
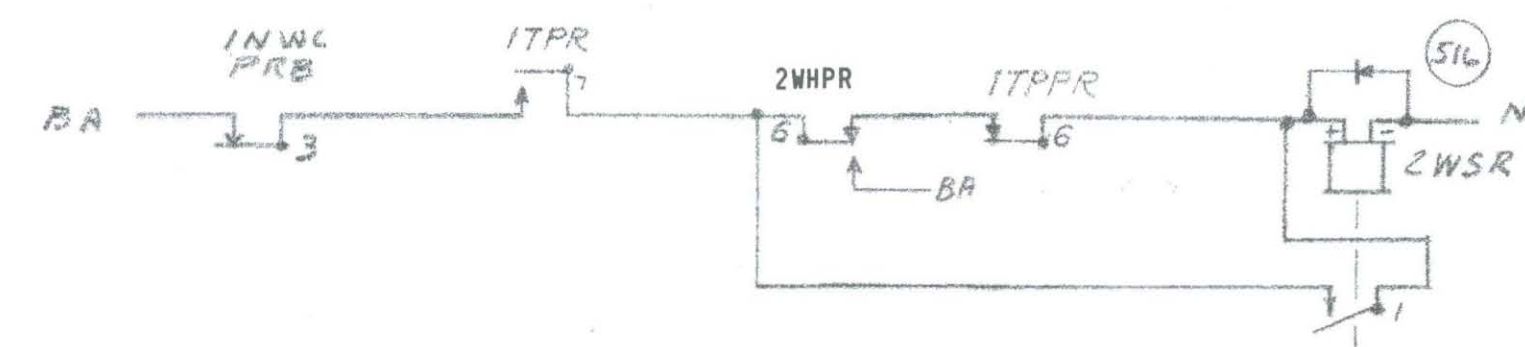
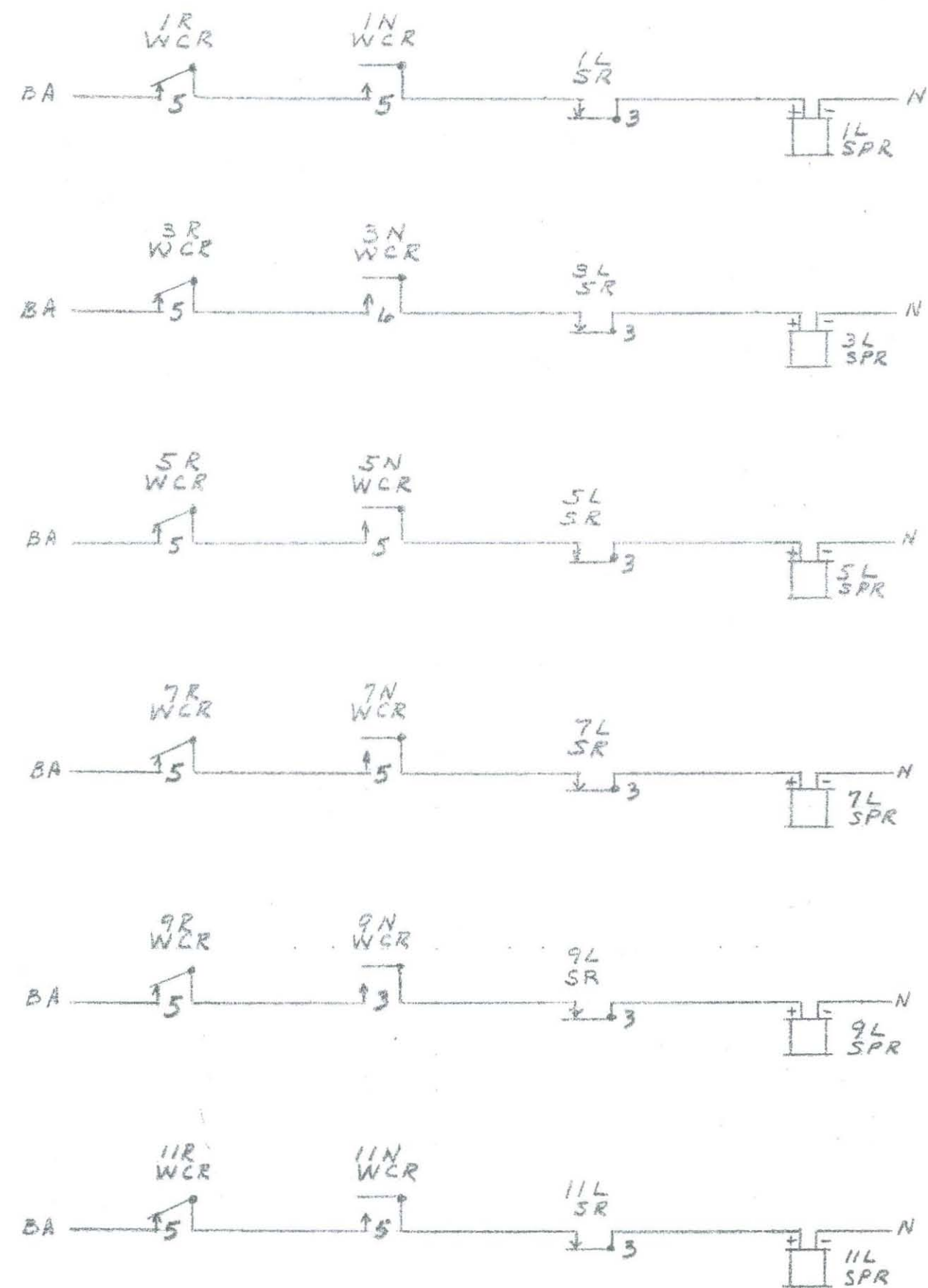
NO CHANGES
 CW00618488A 112006039A
 02-21-08 SWE/JWM/
Southwest
 Signal Engineering Co.

REVISIONS				CSX TRANSPORTATION			
3-24-72 REPORT R.W.A. 1-12-72				RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
05-08-06 VECTOR CREATED BY SWE IL2004014				BLACK LANE TO K TOWER HW CABIN, A & S CROSSING SIGNAL INDICATION CIRCUITS ROSE LAKE, IL M.P. BC-331.10			
DESIGNED	DIGITIZED	CHECKED	DATE	DESIGNED	DIGITIZED	CHECKED	DATE
CSX	SWE	CSX	05-08-06	CSX	SWE	CSX	05-08-06
DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET	
1630-6	17	18	BC33110	C22	BC33110	C21	



NO CHANGES
 CWD0618488A 1L2003001
 02-21-08 SWE/JWH/
Southwest
 Signal Engineering Co.

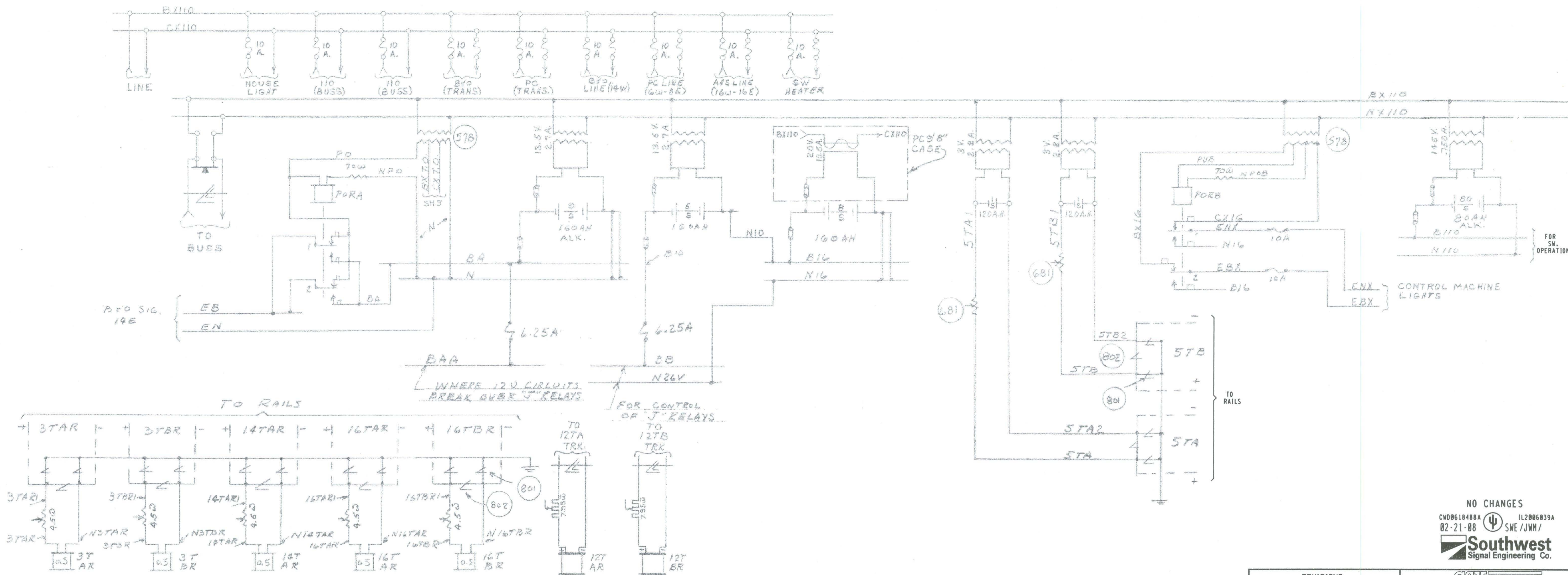
REVISIONS		CSX TRANSPORTATION			
04-06-04 SWE	1L2003001	RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
05-08-06	VECTOR CREATED BY SWE	1L2004014			
BLACK LANE TO K TOWER					
HW CABIN, A & S CROSSING SWITCH LOCKING & CONTROL RELAYS ROSE LAKE, IL M.P. BC-331.10					
DESIGNED CSX	DIGITIZED SWE	CHECKED CSX	DATE 05-08-06		
DRAWING 1630-6	SHEET NO 18	NEXT SH 19	NEXT FILE BC33110	NEXT SH C23	SHEET C22



NO CHANGES
 CWD0618488A IL2006039A
 02-21-08 SWE/JWM/
Southwest
 Signal Engineering Co.

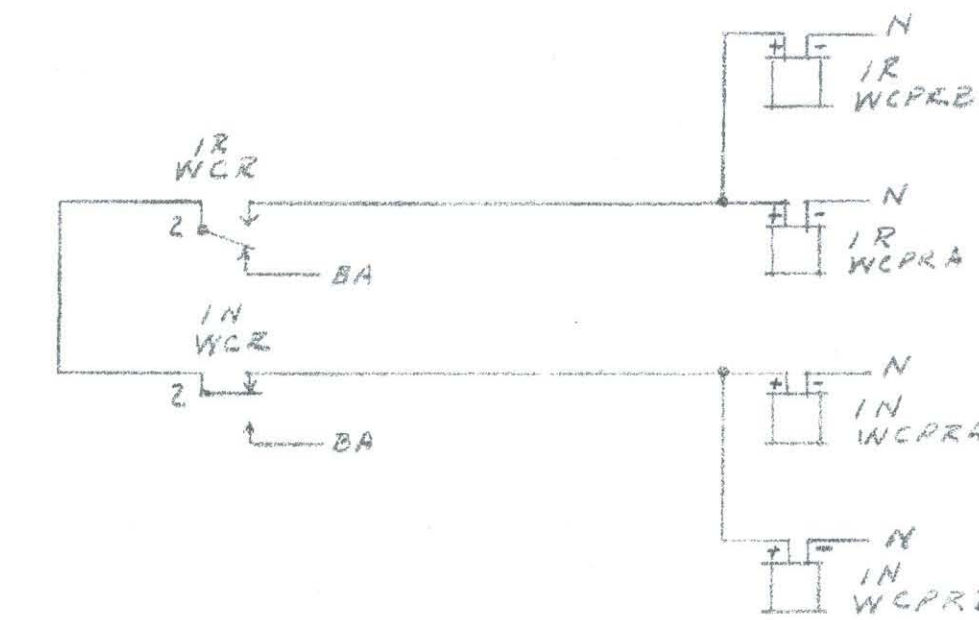
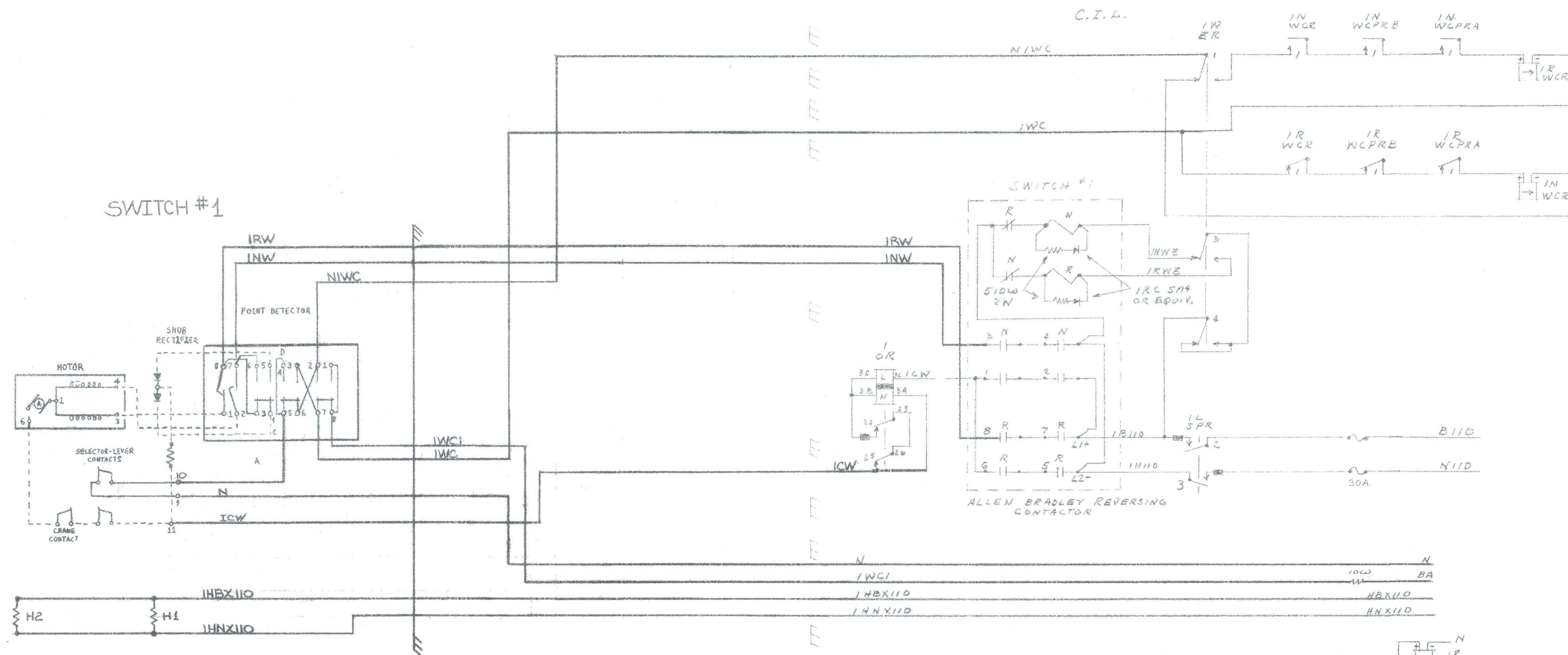
REVISIONS			
10-7-93	IL92069	SWE	
04-06-04	SWE	IL2003001, IL2003001A	
05-08-06	VECTOR CREATED BY SWE	IL2004014	

 RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
BLACK LANE TO K TOWER HW CABIN, A & S CROSSING TRAFFIC CONTROL CIRCUIT-WEST #2 TX ROSE LAKE, IL H.P. BC-331.10			
DESIGNED CSX	DIGITIZED SWE	CHECKED CSX	DATE 05-08-06
DRAWING 1630-6	SHEET NO 19	NEXT SH 20	NEXT FILE BC33110
			NEXT SH C24
			FILE BC33110
			SHEET C23



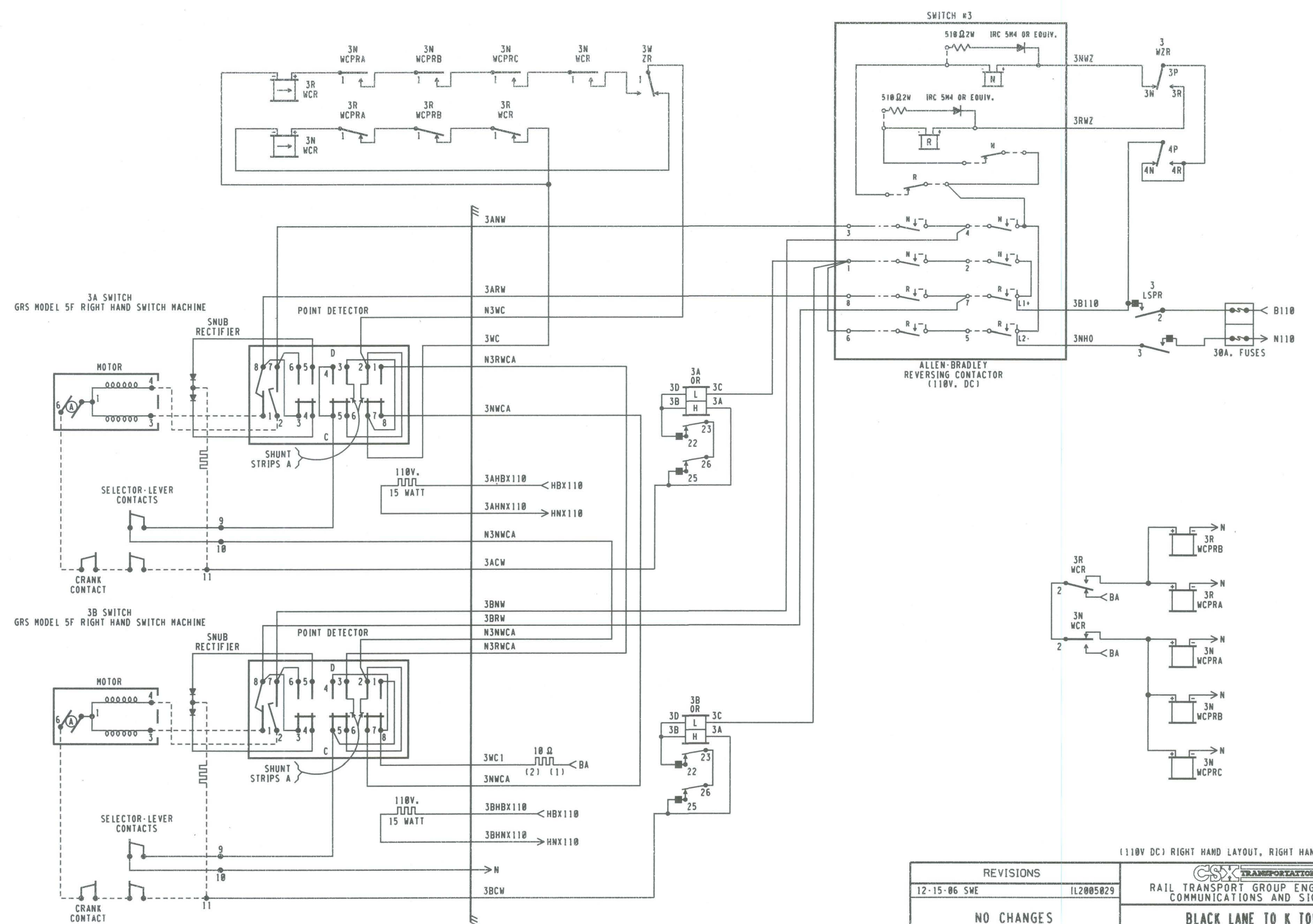
NO CHANGES
 CVD0618488A IL2006039A
 02-21-08 SWE/JWH/
Southwest
 Signal Engineering Co.

REVISIONS		CSX TRANSPORTATION				
04-06-04 SWE	IL2003001	RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS				
05-08-06	IL2004014	BLACK LANE TO K TOWER NN CABIN, A & S CROSSING POWER ARRANGEMENT ROSE LAKE, IL N.P. BC-331.10				
DESIGNED	DIGITIZED	CHECKED	DATE			
CSX	SWE	CSX	05-08-06			
DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
1630-6	20	21	BC33110	C25	BC33110	C24



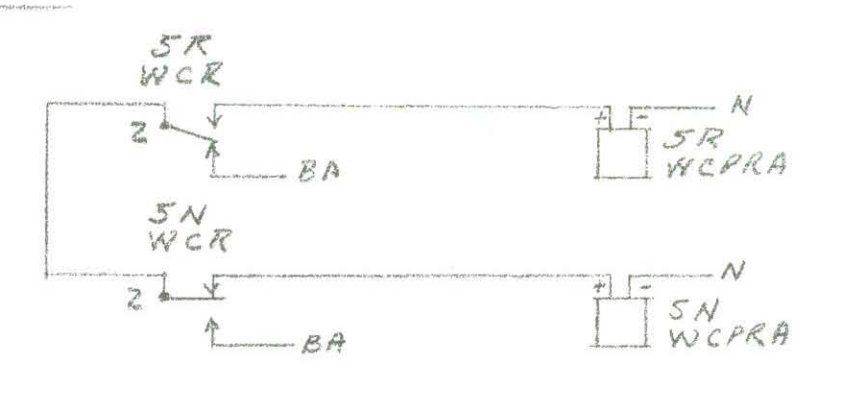
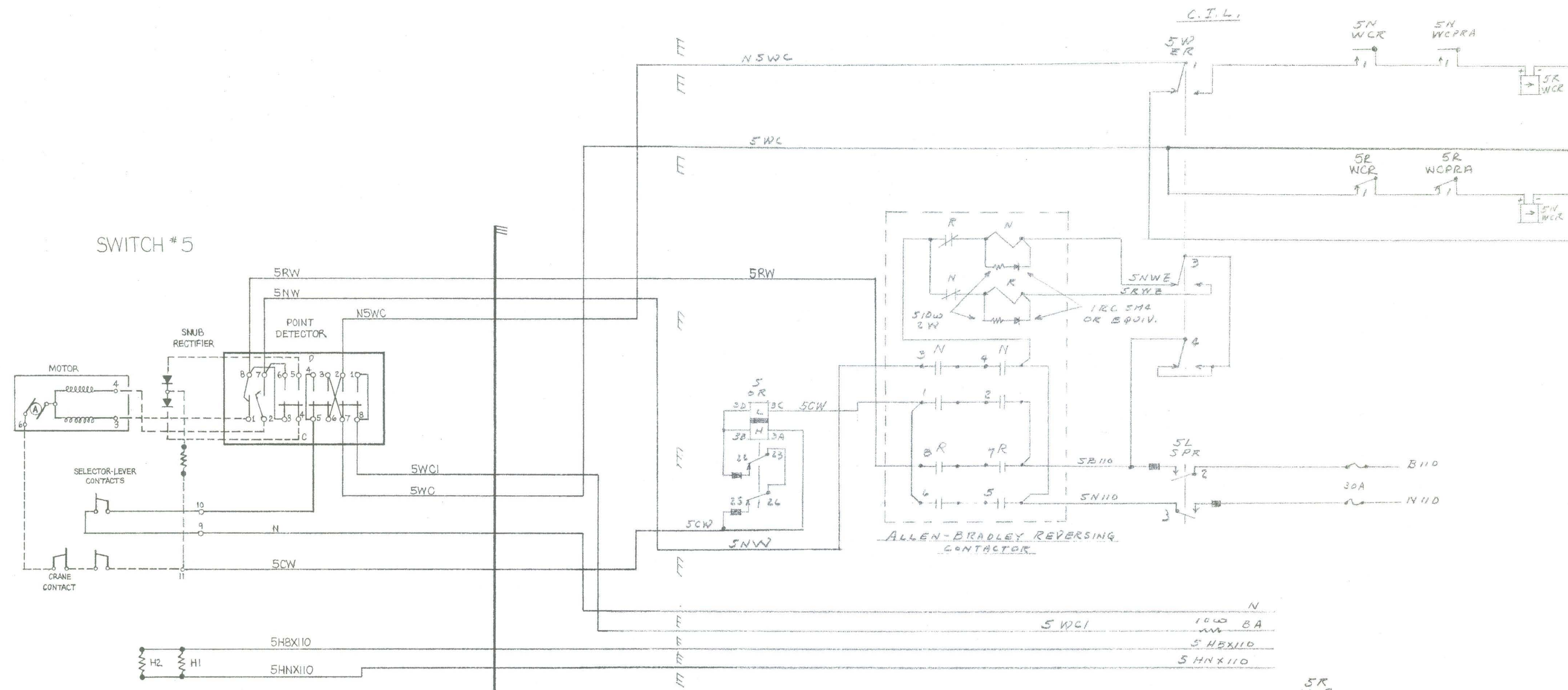
NO CHANGES
 CWD0618488A 1L2006039A
 02-21-08 SWE/JWM/
Southwest
 Signal Engineering Co.

REVISIONS			CSX TRANSPORTATION			
05-21-93 SWE	1L93026		RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
04-06-04 SWE	1L2003001		BLACK LANE TO K TOWER HW CABIN, A & S CROSSING #1 SWITCH CONTROL & INDICATION ROSE LAKE, IL M.P. BC-331.10			
05-08-06	VECTOR CREATED BY SWE	1L2004014				
DESIGNED	DIGITIZED	CHECKED	DATE			
CSX	SWE	CSX	05-08-06			
DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
1630-6	21	22	BC33110	C26	BC33110	C25



(110V DC) RIGHT HAND LAYOUT, RIGHT HAND POINT CLOSED.

REVISIONS		RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS	
12-15-06 SWE	IL2005029	BLACK LANE TO K TOWER MN CABIN, A & S CROSSING SWITCH 3 CIRCUITS ROSE LAKE, IL M.P. BC-331.10	
NO CHANGES CWD0618488A 112006039A 02-21-08 SWE/JWH/			
DESIGNED SWE/LGB	DIGITIZED SWE/JMF	CHECKED SWE	DATE 08-05-05
DRAWING 1630-6	SHEET NO 22	NEXT FILE BC33110	SHEET C26



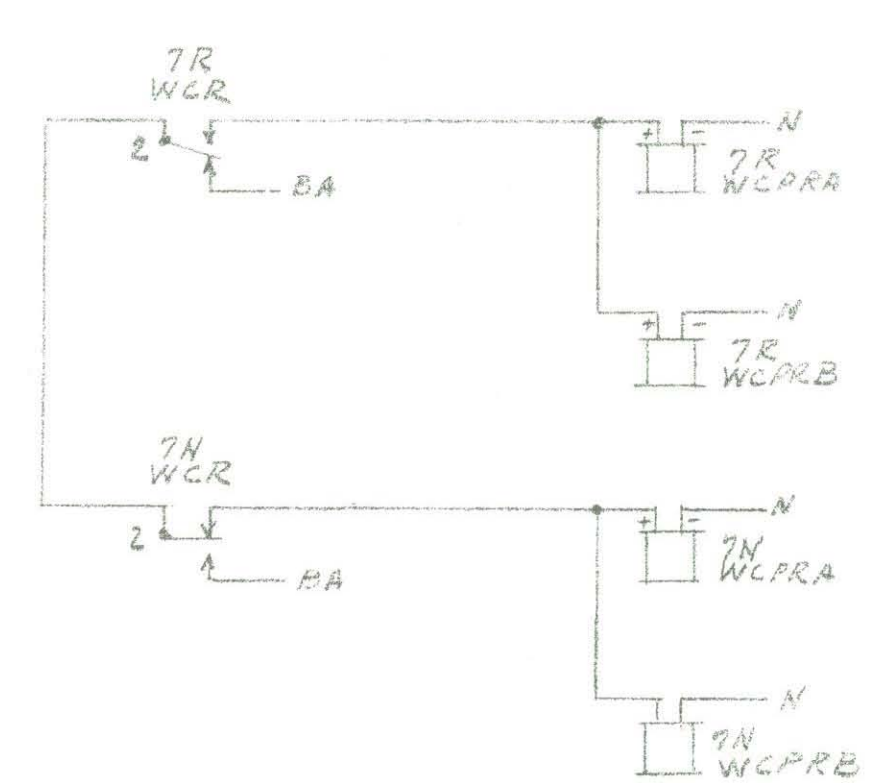
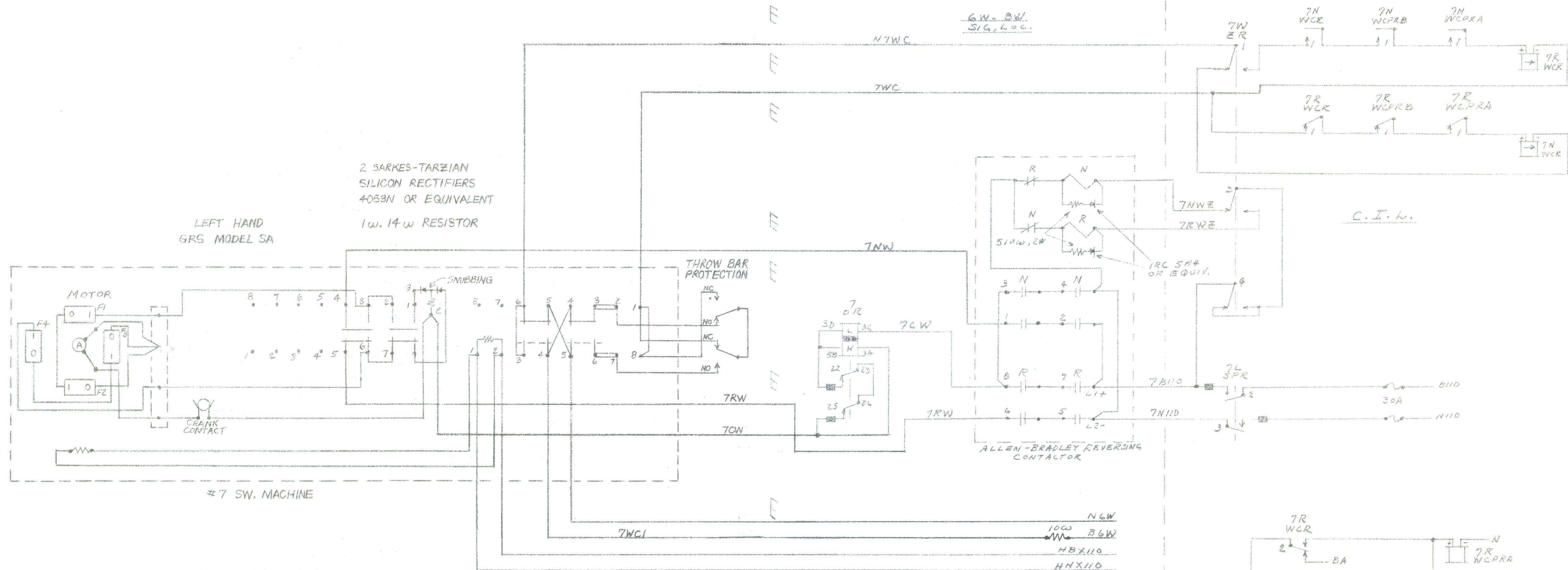
SWITCH #5

ALLEN-BRADLEY REVERSING CONTACTOR

C.I.L.

NO CHANGES
 CVD0618488A IL2006039A
 02-21-08 SWE/JWH/
Southwest
 Signal Engineering Co.

REVISIONS				CSX TRANSPORTATION RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
05-02-94	CTC			BLACK LANE TO K TOWER NN CABIN, A & S CROSSING #5 SWITCH CONTROL & INDICATION ROSE LAKE, IL M.P. BC-331.10			
04-06-04	SWE	IL2003001					
05-08-06	VECTOR CREATED BY SWE	IL2004014					
DESIGNED	DIGITIZED	CHECKED	DATE	DESIGNED	DIGITIZED	CHECKED	DATE
CSX	SWE	CSX	01-21-05	CSX	SWE	CSX	01-21-05
DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET	
1630-6	23	24	BC33110	C28	BC33110	C27	



LEFT HAND
GRS MODEL SA

2 SARKES-TARZIAN
SILICON RECTIFIERS
4053N OR EQUIVALENT

1w.14w RESISTOR

THROW BAR
PROTECTION

ALLEN-BRADLEY REVERSING
CONTACTOR

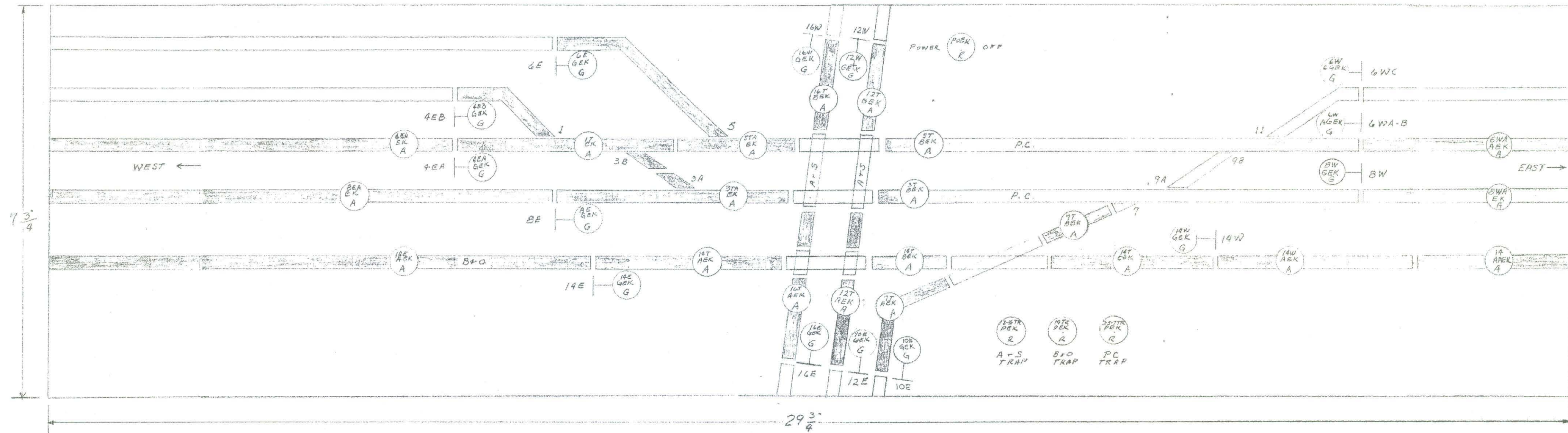
C.I.L.

NO CHANGES

CWD0618488A 02-21-08 SWE/JWH/

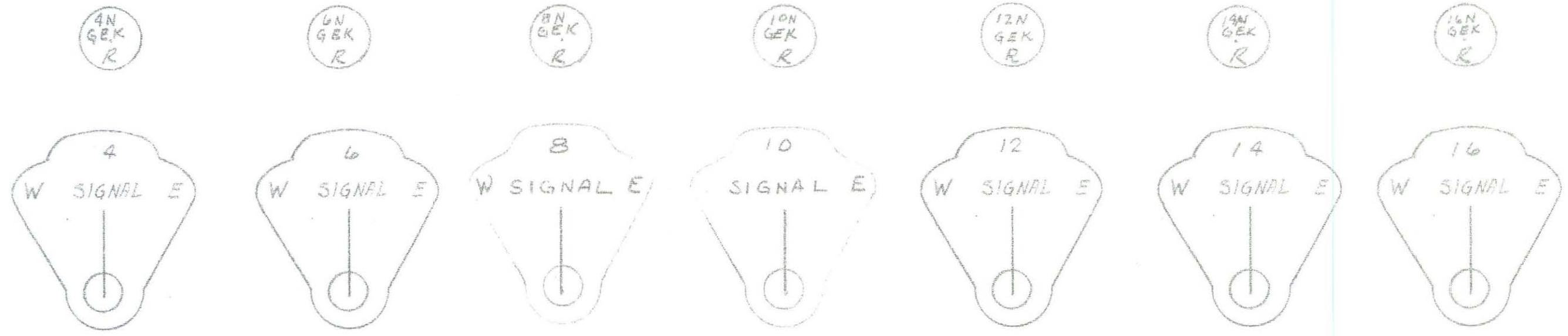
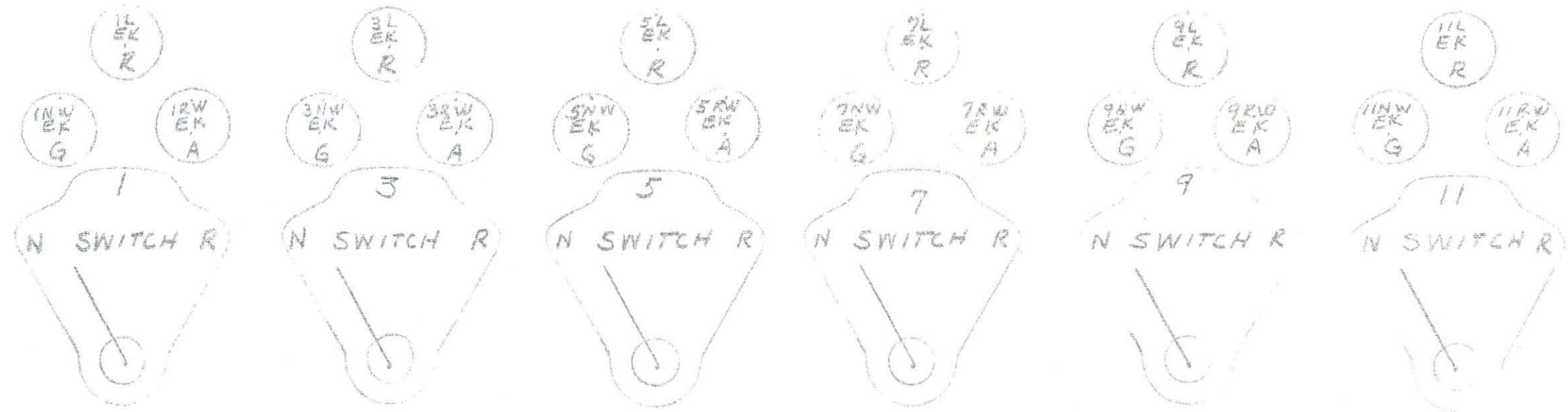
Southwest
Signal Engineering Co.

REVISIONS		CSX TRANSPORTATION			
04-06-04 SWE	IL2003001	RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
05-08-06 VECTOR CREATED BY SWE	IL2004014	BLACK LANE TO K TOWER HN CABIN, A & S CROSSING #7 SWITCH CONTROL & INDICATION ROSE LAKE, IL M.P. BC-331.10			
DESIGNED CSX	DIGITIZED SWE	CHECKED CSX	DATE 05-08-06		
DRAWING 1630-6	SHEET NO 24	NEXT SH 25	NEXT FILE BC33110	NEXT SH C29	SHEET C28



NO CHANGES
 CWD0618488A IL2006039A
 02-21-08 SWE/JWM/
Southwest
 Signal Engineering Co.

REVISIONS			CSX TRANSPORTATION			
04-06-04 SWE	IL2003001		RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
05-08-06 VECTOR CREATED BY SWE	IL2004014		BLACK LANE TO K TOWER			
			HW CABIN, A & S CROSSING			
			TRACK CHART CONTROL MACHINE			
			ROSE LAKE, IL H.P. BC-331.10			
DESIGNED	DIGITIZED	CHECKED	DATE			
CSX	SWE	CSX	01-21-05			
DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
1630-6	31	32	BC33110	C36	BC33110	C35



NO CHANGES
 CWD0618488A 02-21-08 SWE/JMM/ IL2006039A
 Southwest Signal Engineering Co.

REVISIONS			CSX TRANSPORTATION RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
04-06-04 SWE	IL2003001		BLACK LANE TO K TOWER HW CABIN, A & S CROSSING LEVEL ARRANGEMENT CONTROL MACHINE ROSE LAKE, IL M.P. BC-331.10			
05-08-06 VECTOR CREATED BY SWE	IL2004014					
DESIGNED CSX	DIGITIZED SWE	CHECKED CSX	DATE 05-08-06			
DRAWING 1630-6	SHEET NO 32	NEXT SH 39	NEXT FILE BC33110	NEXT SH C37	FILE BC33110	SHEET C36


1 (87) NWCR	1 (73) NWLCPRA	1 (70) NWLCPRB	1 (87) RWCR	1 (73) RWCPRA	1 (70) RWCPRB	1 (182) WZR	1 (76) LSR	1 (66) LSPR	1-OR 56001 786 GR.1	
B1 1RWCR 2 1WCP F3 4ERC5 F4 NILSI B5 1LSP1 6	B1 1RWCR F2 4EAHAI F3 6WH5 F4 6WHY2 5 6 4EAGEKI	B1 1RWCR F2 1NWEK 3 4	B1 1NWE2 2 1WCP 3 F4 NILSIA B5 1LSP2 F6 4ERC5A	B1 1NWC F2 6WRCT F3 4EBHAI F4 6WH4 F5 6WR2A 6	B1 1NWC1 F2 1RWEK 3 4	P1 1NWC P2 NILS P3 1NWE 1RWE P4 1CWI	F1 1WE F2 1NWE1 F3 1LSP B4 4EHG 5 F6 NILS B7 1LEK 8	F1 F2 1B110 F3 1N110 4		
3 (87) NWCR	3 (73) NWLCPRA	3 (76) NWLCPRB	3 (87) RWCR	3 (73) RWCPRA	3 (73) RWCPRB	3 (182) WZR	3 (76) LSR	3 (66) LSPR	3A-OR 56001 786 GR.1	3B-OR 56001 786 GR.1
B1 3RWCR 2 3WCP F3 4ERC7 F4 BRCA F5 B6 3LSP1	B1 3RWCR 2 3 BEAD2 F4 4EHB F5 BH4 F6 3NWEK	B1 3RWCR F2 1AY F3 BER4B F4 6WR4C F5 6WR3C F6 1LS2A F7 7LSS 8	B1 3NWC2 2 3WCP F3 4ERC9A F4 NLSIA B5 3LSP2 6 4EAS2	B1 3NWC F2 4EH9A F3 8WHY1 F4 6ERC F5 1LS2B F6 5LSA	B1 3NWC1 2 3 N8EADI F4 3RWEK F5 4EHI F6 SAY	P1 3NWC P2 NLS 3 N8EADI F4 3RWEK F5 4EHI F6 SAY	P1 3WE F2 3NWE1 F3 3LSP B4 4EH7 B5 EHO F6 NLS B7 3LEK 8	F1 F2 3B110 F3 3N110 4		
5 (87) NWCR	5 (73) NWLCPRA		5 (87) RWCR	5 (76) RWCPRA		5 (182) WZR	5 (73) LSR	5 (66) LSPR	5-OR 56001 786 GR.1	
B1 5RWCR 2 5WCP F3 4ERC8 F4 B5 5LSP1	B1 5RWCR F2 6H2 F3 6WHY1 F4 5NWEK 5 6		B1 5NWC1 2 5WCP F3 6RC3 F4 B5 5LSP2 6	B1 5NWC F2 6EH3 F3 5RWEK F4 6WR2D F5 3LSA F6 1LSA F7 8		P1 5NWC P2 NLS P3 5NWE 5RWE P4 5CWI	F1 5WE F2 5NWE1 F3 5LSP B4 6H5 B5 5LEK F6 NLS	F1 F2 5B110 F3 5N110 4		
7 (87) NWCR	7 (73) NWLCPRA	7 (70) NWLCPRB	7 (87) RWCR	7 (73) RWCPRA	7 (73) RWCPRB	7 (182) WZR	7 (73) LSR	7 (71) LSPR		
B1 7RWCR2 2 7WCP F3 BRCL6 F4 N7LS1 B5 7LSP1 F6 SAY	B1 7RWCR F2 BH7 F3 BWHY F4 7NWEK 5 F6 1AY	B1 7RWCR1 F2 PCTPBA 3 4	B1 7NWC2 2 7WCP F3 10ERC5 F4 N7LSIA B5 7LSP2 F6 1AY	B1 7NWC F2 10EH7 F3 7RWEK F4 6WR4D F5 6WR2C 6 8WAS2	B1 7NWC1 F2 PCTPAA F3 PCTPAA 4 5 F6 3TBPA	P1 7NWC P2 N7LS P3 7NWE 7RWE P4 7CWI	F1 7WE F2 7NWE1 F3 7LSP B4 BH9 B5 7LEK F6 N7LS	F1 F2 7B110 F3 7N110 4		

(K70)
CTR
B1
B2
B3
B4
BL26TB2

NO CHANGES
CWD0618488A 1L2006039A
02-21-08 SWE/JWM/
Southwest
Signal Engineering Co.

REVISIONS		CSX TRANSPORTATION RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
9-1-91 D.E.I.		BLACK LANE TO K TOWER			
04-06-04 SWE	1L2003001	NN CABIN, A & S CROSSING			
05-08-06		P.C. RELAY DETAILS			
VECTOR CREATED BY SWE	1L2004014	ROSE LAKE, IL M.P. BC-331.10			
DESIGNED CSX	DIGITIZED SWE	CHECKED CSX	DATE 05-08-06		
DRAWING 1630-6	SHEET NO 39	NEXT SH 40	NEXT FILE BC33110	NEXT SH C38	SHEET C37

9 (87) NWCR B1 9RWC3 2 9WCP B3 9LSP1 F4 6RC6 F5 BRC10 F6	9 (76) NWCPR B1 9RWC F2 BEAH1 F3 10EBDI F4 4EHIDA F5 6H7 F6 BH13 F7 3LSIA F8 7LSA	9 (76) NWPRB B1 9RWL1 F2 6ER3B F3 6ER2B F4 6WRID F5 1ES3 F6 1LSIA F7 1LSA F8 1LSIA	9 (76) NWCPRC B1 9RWL2 F2 PCTPB F3 4EHY F4 6WHY F5 9NWEK F6 4ERCID 7 F8 SAY	9 (87) RWCR B1 9NWL2 2 9WCP F3 BRC10A F4 N9LSIA B5 9LSP2 F6 IAY	9 (73) RWLPR B1 9NWL F2 BEH13A F3 9RWEK F4 BERB F5 6WRIC 6 6WAS2	9 (70) RWLPRB B1 9NWL1 F2 PCTBAIB 3 F4 5TBPA	9 (182) WER P1 N9WC P2 N9LS P3 9NWE 9RWE P4 9CWI	9 (76) LSR F1 9WZ F2 N9W21 F3 9LSP B4 6H7 B5 BHID F6 N9LS B7 9LEK 8	9 (66) LSPR F1 F2 9B110 F3 9N110 4	11 (87) NWCR B1 11RWC2 2 11WCP F3 6RCB F4 N1LS1 B5 11LSP1 6	11 (70) NWCPR B1 11RWC F2 6EH3 F3 6WAH1 4	11 (73) NWPRB B1 11RWCI 2 6WAGEK1 3 F4 11NWEK F5 2ES2 6	11 (87) RWCR B1 11NWC1 2 11WCP F3 6RCBA F4 N1LSIA B5 11LSP2 F6 SAY	11 (73) RWLPR B1 11NWC F2 6ERCIS F3 6EH2 F4 6WCHAI F5 11RWEK F6 6ERD	5 (K7) TAPPR F1 5TP2 F2 PCTPA B3 5TAEK F4 SAY	11 (182) WER P1 N11WC P2 N11LS P3 11NWE 11RWE P4 11CWI	11 (73) LSR F1 11WZ F2 N11W21 F3 11LSP B4 6HID B5 11LEK F6 N11LS	11 (71) LSPR F1 16RCS F2 16D5 F3 11N110 4 F4 12E04	PC (70) TPRA F1 14RCS F2 14C7 F3 F4	PC (70) TPRB F1 5TP1 B2 5TBK F3 2EH1 4 SAY	5 (K7) TBPPR F1 5TP1 B2 5TBK F3 2EH1 4 SAY
8W (76) AR	3 (K15) XTSR	1 (113) TPR	1 (73) TPPR	3 (39) TAR	3 (115) TAPR	3 (39) TBR	3 (113) TBPR	3 (76) TPR	3 (115) TPPR	5 (115) TAPR	5 (115) TBPR										
1 ANX 2 NAXX F3 F4 B5 B6 8WAEK B7 8	F1 3TAP B2 3TPS F3 3TBP F4 3XTSA B5 TRPBS5 B6 3-5-7TRPEKB B7 8	F1 4NLP F2 4ERC4 F3 4EHS B4 ITEK F5 1TPY F6 6ER7 B7 2WS2 8	1F BERS 2F 6WR B3 4EAS2 F4 4TE 4 F5 4EU F6 2WS1	F1 3TAPI F2 N3TAP B3 4EAS 4 F5 4EU F6 2WS1	1 3TPS2 2 PCTPA7 B3 3TAEK B4 BEAS1 B5 8WASA F6 3TAPA	F1 3TBP F2 N3TBP B3 10EAS B4 1ES2	F1 3TPS1 2 PCTPB3 B3 3TBK B4 3XTS B5 6WAS B6 BEAS B7 8WAS2 F8 3TBPA	F1 PCTPA F2 BNL F3 BRC9 F4 BH12 F5 6ER4 F6 BER1 F7 1LS2 B8 3-5-7TRPEKIB	F1 6WR4 F2 BTE F3 BEU F4 SAY 5 F6 IAY	1 5TAPP B2 5XTSIA F3 5TAPA B4 6EAS1 B5 6WASA B6 4EASA	B1 5XTS F2 5TBPA B3 2ES1 B4 6EAS B5 6WAS2 6 5TBPP										
5 (76) TPR	7 (115) TAPR	7 (113) TBPR	7 (76) TPR	7 (65) XTSR	TRP (K10) BSR	4 (70) ERGPR	6 (70) ERGPR	6 (70) WRGPR	8 (70) ERGPR	8 (70) WRGPR	10 (70) ERGPR										
F1 6NLP F2 6RC9 F3 6H11 F4 GER F5 6WRI F6 6TE F7 6WU B8 3-5-7TRPEKIA	F1 7TAP F2 7TP2 B3 7XTS1 B4 7XTSA B5 7TAEK B6 3-5-7TRPEK1 B7 8	F1 7TBPA F2 7TP1 B3 7XTS B4 7XTSIA B5 7TBK B6 3-5-7TRPEK2 B7 8WAS 8	F1 10NLP F2 BRCB F3 8H11 F4 6ER3 F5 8ER F6 10TE B7 10EAS1 F8 10EU	F1 7XTS F2 7TAP F3 7TBP B4 7TP B5 TRPBS2 B6 3-5-7TRPEK F7 12XTSC 8	F1 TRPBSA F2 7XTSZA F3 14XTS3A F4 14XTSZA F5 3XTSC F6 5XTSC F7 12XTSC 8	1 4ERCI 2 4NGEK1 F3 4EAS4 4	1 6ERCI 2 6NGEK3 F3 6EAS3 4	1 6WRCI 2 6NGEK3 F3 6WAS4 4	1 BERCI 2 8NGEK3 F3 8EAS3 4	1 BWRCI 2 8NGEK3 F3 8WAS4 4	1 10ERCI 2 10NGEK1 F3 10EAS3 4										
5 (K15) XTSR				ITPYR (141)	7TPYR (141)	3TPSR (151)	5TPSR (151)														
F1 5TAP B2 5TP F3 5TBP F4 5XTSA B5 TRPBS4 B6 3-5-7TRPEKA				F1 IAY F2 2AY F3 1TPP 4	F1 IAY F2 7TP F3 SAY 4	F1 3TPS F2 3TP	F1 5TPS F2 5TP														

NO CHANGES
 CWD0618488A 1L2006039A
 02-21-08 SWE/JWH/


REVISIONS		CSX TRANSPORTATION RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
04-06-04 SWE	IL2003001	BLACK LANE TO K TOWER HW CABIN, A & S CROSSING P.C. RELAY DETAILS ROSE LAKE, IL M.P. BC-331.10			
05-08-06 VECTOR CREATED BY SWE	IL2004014				
DESIGNED CSX	DIGITIZED SWE	CHECKED CSX	DATE 05-08-06		
DRAWING 1630-6	SHEET NO 40	NEXT SH 41	NEXT FILE BC33110	NEXT SH C39	FILE BC33110

4 EASR (76)
 1 4EASC
 F2 6WRC11
 3 4EH3
 F4 4NGEK
 F5 6ERG
 F6 8ER4
 F7 4EUI
 F8 IAY

4 TER (195)
 7:55"
 F1 4EASB
 2
 B 4EH4
 CK
 B3 4EH3 1/2
 4

6 EASR (76)
 1 6EASB
 F2 PCTPA3
 F3 6WRC9
 4 6EH2
 F5 6NGEK1
 F6 6ERI
 F7 9LS
 F8 11LS3

6 WASR (76)
 1 6WASC
 F2 6TE1
 F3 6ERCID
 4 6H11
 F5 6NGEK
 F6 6WR2
 F7 6WUI
 8

6 TER (175)
 6:30
 F1 6EASA
 F2 6NASB
 B 6HB
 CK
 B3 6H7 1/2
 4

8 EASR (76)
 1 8EASB
 F2 PCTPA5
 F3 8WRC12
 4 8H3
 F5 8NGEK1
 F6 8ERS
 F7 8ER3
 F8 8EUI

8 WASR (76)
 1 8WASC
 F2 8TE1
 F3 PCTPA1
 F4 PCTPA1
 F5 8ERC12
 6 8H13
 F7 8NGEK
 F8 8WASP

8 WASPR (70)
 F1 6WRS
 F2 9LS3
 F3 1LS1
 F4 7LS2

8 TER (175)
 8:00"
 F1 8EASA
 F2 8WASB
 B 8HB
 CK
 B3 8H7 1/2
 4

10 EASR (76)
 1 10EASB
 F2 8WRC14
 3 10EH4
 F4 6ERL
 F5 8ER2
 F6 10EUI
 F7 10NGEK
 8

10 TER (174)
 1:10
 F1 10EASA
 2
 B 10EHG
 CK
 B3 10EH3 1/2
 4

4 EUR (73)
 F1 PCTPA6
 F2 9LS5
 F3 7LS4
 F4 11LS2
 F5 5LS
 6

6 WUR (76)
 F1 PCTPA2
 F2 PCTPB2
 F3 9LS1
 F4 1LS
 F5 9LS
 F6 11LS4
 F7 3LS
 8

8 EUR (70)
 F1 9LS4
 F2 7LS3
 F3 11LS1
 4

10 EUR (70)
 F1 PCTPB
 F2 9LS2
 F3 11LS
 F4 7LS1

6 ERR (73)
 F1 6ERA
 F2 6ERIA
 F3 6ER8
 F4 42LHT2
 F5 42LHT9
 6

6 WRR (73)
 F1 6WRA
 F2 6WR1B
 F3 6WRS
 F4 10HY
 F5 10HY
 6

8 ERR (70)
 F1 8ERA
 F2 8ERG
 F3 44LHT2
 F4 44LHT10
 F5 IAY
 F6 IES

1 ESR (73)
 F1 IESA
 B2 44LHT1
 B3 44LHT10
 F4 8ERC15
 F5 8EH15
 6

2 ESR (73)
 F1 2ESA
 B2 42LHT1
 B3 42LHT9
 F4 6ERC13
 F5 6EH15
 6

2 WSR (76)
 F1 2WSA
 B2 10HY
 3
 4
 F5 6WRC15
 F6 6WHS
 B7 10HY
 8

2W HPR (57)
 1
 2
 F3 6WHY3
 4
 F5 6WRC12
 6 2WS1
 F7 6WHG
 8

10 HYBPR (50)
 1
 F2 6WHT
 3
 4

2 EHR (70)
 F1 6ERC11
 F2 6EH14
 3 2ESI
 F4 2EH1A

1 EHDR (182)
 F1 IEHP
 F2 NYEAD1
 F3 10EBD1
 4
 F1 BEADZ
 P2 NYEAD1
 P3 10EBD
 P4

1 EHPR (57)
 F1 BERCL3
 F2 BEAH
 F3 NYEH
 F4 NYEBD
 F5 4EHY2
 F6 BEH14
 7
 F8 IEHPP

4EAR (63)
 1
 2
 B3 4EAEK
 F4 IAY

6 WAAR (70)
 B1 6WAAEK
 2 AXK2
 3 NAXK2
 4

8 EAR (70)
 B1 8EAEK
 2 AXK3
 3 NAXK3
 F4 IAY

4 EHYR (70)
 F1 N4EH
 2 4EBHA
 3 4EAHA
 4

6 WHYR (70)
 1 6WCHA
 F2 NGWH1
 3 6WAH
 4

8 WHYR (70)
 F1 8WHA
 F2 8BWH1
 3
 4

4 ERCR (70)
 1 4ERC2
 F2 4EBHAZ
 F3 N4EH
 B4 4EAS3

6 ERCR (70)
 1 6ERC2
 F2 6EH
 F3 N6EH
 B4 6EAS2

6 WRCLR (70)
 1 6WRCL2
 F2 6WH2
 F3 N6WH1
 B4 6WAS3

8 ERCR (70)
 1 8ERC2
 F2 8EAH2
 F3 N8EH
 B4 8EAS2

8 WRCLR (70)
 1 8WRCL2
 F2 8WH1
 F3 N8WH1
 B4 8WAS3

10 ERCR (70)
 1 10ERC2
 F2 10EH2
 F3 N10EBD1
 B4 10EAS2

10+ PORA (104)
 1 EB
 2 EB
 3
 F4 PORP1

10+ PORB (104)
 1 CX16
 2 BX16
 3
 F4 PORP

1
 2
 B3 POEK
 4

1 EHPPR
 F1 IEHDI
 2 IES1

NO CHANGES
 CND0618488A 02-21-08
 IL2006039A SWE/JWH/
 Southwest Signal Engineering Co.

REVISIONS				CSX TRANSPORTATION			
04-06-04 SWE	IL2003001	RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS		BLACK LANE TO K TOWER		HH CABIN, A & S CROSSING	
05-08-06	VECTOR CREATED BY SWE	IL2004014	P.C. RELAY DETAILS		ROSE LAKE, IL M.P. BC-331.18		
DESIGNED	DIGITIZED	CHECKED	DATE	CSX	SWE	CSX	05-08-06
DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET	
1630-6	41	42	BC33110	C40	BC33110	C39	

5 (39)
TBAR
 F1 NSTBPI
 F2 STBP
 3
 4

5 (39)
TBBR
 F1 NSTBPI
 F2 STBPI
 3
 4

8 (73)
WHAR
 B1 BWHB
 FB2 MCZA
 FB3 BWRGP1
 4 BWBRE
 FB5 BWBEO
 6

8 (70)
WHBR
 B1 BWRGP
 2 BWBGE
 3
 4

(D185)
BWALOR
 F1 BWHA
 2

8W BEOR		8W BEOPR	
12	BWBEO	B76	B8
15	BWBYE	C30	C30
32		C40	C40
35			

6 (76)
WAHR
 F1 SCZA
 2
 B3 GWBH
 F4 GWANE
 5 GWAHIE
 F6 GWAEO
 7
 B8 GWRGP

6 (70)
WBHR
 F1 GWRGP1
 F2 GWBHE
 F3 GWBIE
 4

(70)
2WHHR
 F1 GWAEO
 2
 3
 4
 POR (159)
 1 EBX
 2 EBX

7-
OR

6 (73)
WCHAR
 B1 GWCHB
 B2 GWRGP2
 3
 4
 5 GWCRSE
 6

6 (70)
WCHBR
 B1 GWRGP3
 2 GWCHB
 3
 4

9A
OR


6W AEOR	
12	B
15	B
32	
35	


9B
OR

FOR DETAILS SEE CIRCUIT PLAN
 (GRS 56001 786 GR.1)

7 9 11
ALLEN BRADLY CONTROLLERS

FOR DETAILS SEE CIRCUIT PLAN
 BULLETIN 205 TYPE 1, STYLE R, SIZE 1
 #205-BA 623C

NO CHANGES
 CWDB618488A 1L2006039A
 02-21-08 SWE/JWM/


REVISIONS			 RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
04-06-04	SWE	1L2003001	BLACK LANE TO K TOWER NW CABIN, A & S CROSSING LOC. 6W-8W SIGNAL ROSE LAKE, IL H.P. BC-331.10			
08-22-05	SWE	1L2004018				
05-08-06	VECTOR CREATED BY SWE	1L2004014				
DESIGNED	DIGITIZED	CHECKED	DATE			
CSX	SWE	CSX	05-08-06			
DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
1630-6	42	43	BC33110	C41	BC33110	C40

C. I. L.

14 (39) TAR	14 (76) TAPR	14 (76) TBPR	14 (76) TCPR	14 (76) TPR	14 (59) XTSR
F1 14TAPI F2 N14TAP 3 4	F1 14TAPA F2 14TP3 B3 14XTS2 B4 14XTS2A B5 14WAS B6 14TAEK B7 14TRPEK1 8	F1 14TBPA F2 14TP2 B3 14XTS1 B4 14XTS1A B5 14EAS B6 14WAS1 B7 14TRBEK B8 14TRPEK2	F1 14TAPA F2 14TP1 B3 14XTS B4 14XTSA B5 14EAS1 B6 14TLEK B7 14TRPEK3 8	F1 14NLP F2 14RC3 F3 14ACS F4 14TE F5 14TPR 6 3326HD6 7 14EHD 8 L28HD6	F1 14XTSA F2 14TAP F3 14TBP F4 14TLP B5 14TP B6 14TRPEK B7 TRPBI 8

14 (73) WSR	14 (187) EMDR 40000 P	14 (K15) EBPR	14 (63) WAR
F1 14WS3 2 B3 3326HD4 4F 14WAC10 5F 14WRC9	1 14EBP 2 3 4 P1 14EYIE P2 P3 14EPC P4	F1 14ERC9 F2 14EAC3 F3 14EPCI 4 14ES2 B5 6 14EY2E	B1 14WAEK 2 AXX 3 NAXX 4

14 (70) ERCR	14 (70) WRGR	14 (73) EASR	14 (76) WASR	14 (195) TER 4'-04"	14 (70) ESR	14 (93) EACR
1 14ERC2 B2 14EAS2 F3 14EAC F4 N14EAC	1 14WRC1 B2 14WAS2 F3 14WAC F4 N14WAC	1 14EASB F2 B10TPI 3 14AC4 F4 14WRCL F5 L28HD4 F6 14NGEK1	1 14WASB F2 14TE1 F3 B10TP 4 14ACB F5 14EKC6 FB6 WITZU F7 14NGEK 8	F1 14EASA F2 14WASA B 14ACB CK B3 14AC7 1/2 4	F1 14ES3 B2 L28HD3 3F 14ERC9 4F 14EAC10	B1 14ERG4 F2 14EPCI 3 F4 14ES 5 14ERE2 6

14 (70) ERGR	14 (70) WRGR	14W (70) AAR	14E (70) PCR	B=O (K9) TPR	14TPPR (K7) 1000
F1 14EAS3 2 14ERCI 3 14NGEK3 4 CAO-TL XMTR	F1 14WAS3 2 14WRC1 3 14NGEK3 B4 14WS1	B1 14WAEK 2 3 AXX4 4 NAXX4	1 WIZUTB-3-4 2 3 B4 14ERGPI	F1 10ERL4 F2 10EHS F3 16RC4 F4 16D4 F5 12ERC4 F6 12ED3	1 FB2 WITZU 3 CAO-TL XMTR 4

WITR (K7) 1000	WIHR (K9) 1000	WIDR (K7) 1000	WIBKR (K7) 1000
1F WIH 2 3 4	F1 14RC7 F2 14WAC9 F3 14WIHP F4 14WS2 F5 14NWIHP 6	F1 14WPC1 F2 N14WPC1	1 CAO-TL XMTR 2 NAXX B3 14EAEK 4 AXX

SIG. 14W

14 (73) WACR	W1 HPR	14 (63) WER	14 (159) POR	14 (70) WPCR
1 14WRE1 2 B3 14WRGPI 4 5F 14WPC B6 N14WRGP	1 14WYE B1 14WRE	B1 14WRE1 B2 3. 14WA 4	1 EN 2 EB	1 2 L28HD2 3 NL28HD2 4

INTERCHANGE TRACK CROSSING
LOC.

14 (39) TBR	14 (39) TCR	7 (39) TAR	7 (39) TBR
F1 N14TBP F2 14TRPI 3 4	F1 N14TLP F2 14TLP1 3 4	F1 N7TAP F2 7TAPI 3 4	F1 N7TBP F2 7TBP1 3 4

NO CHANGES
CND8618488A 02-21-08
IL2006039A SWE/JWM/
Southwest
Signal Engineering Co.

REVISIONS				CSX TRANSPORTATION			
9-1-92 D.E.L.				RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
10-7-93 1L92069 SWE				BLACK LANE TO K TOWER			
04-06-04 SWE IL2003001				HW CABIN, A & S CROSSING			
05-08-06 VECTOR CREATED BY SWE IL2004014				B & O RELAY DETAILS			
08-14-07 SAF 1L2005019C				ROSE LAKE, IL M.P. BC-331.10			
DESIGNED CSX	DIGITIZED SWE	CHECKED CSX	DATE 05-08-06	DESIGNED CSX	DIGITIZED SWE	CHECKED CSX	DATE 05-08-06
DRAWING 1630-6	SHEET NO 43	NEXT SH 44	NEXT FILE BC33110	NEXT SH C42	FILE BC33110	SHEET C41	

CENT. INST. LOC.

16 (39) TAR	16 (76) TAPR	16 (39) TBR	16 (76) TBPR	16 (65) XTSR	
F1 16TAPI F2 16TAP B3 16TAEK 4	F1 16TAPA F2 16TPI B3 16XTS B4 16XTSA B5 16EAS B6 16WASI B7 12-16TRPEK1 8	F1 16TBP1 F2 16TBP B3 16TBEK	F1 16TBP F2 16TP2 B3 16XTS1 B4 16XTS1A B5 16EAS1 B6 16WAS B7 12-16TRPEK2 8	F1 16XTSA F2 16TAP F3 16TBP B4 16TP B5 12-16TRPEK B6 TRPBS	
16 (70) ERCR	16 (70) WRGR	16 (70) ERGPR	16 (70) WRGR	16 (73) TPR	
1 16ERC2 F2 16ED F3 16NED B4 16EAS2	1 16WRCL F2 16WD F3 16NWD B4 16WAS2	F1 16EAS3 2 16NGEK3 3 16ERC1 4	F1 16WAS3 2 16NGEK3 3 16WRCL 4	F1 A+STP2 F2 16TE F3 16RC3 F4 16D3 F5 16NLP 6	
16 (73) EASR	16 (73) WASR	16 (74) TER 3:00	A+S (73) TPR	12 (K10) TAPR	
1 16EASB F2 16WRCL F3 A+STP1 4 16D2 F5 16NGEK1 6	1 16WASB F2 16TE1 F3 16ERC6 F4 A+STP 5 16D6 F6 16NGEK	F1 16EASA F2 16WASA B3 16D5/2 4 B 16D6 CK	F1 6RC5 F2 BRCS F3 6H6 F4 8H5 F5 14RC4 F6 14AC6	B1 12WAS1 B2 12EAS F3 12TAPA B4 12XTS1 B5 12XTS1A F6 12TP1 B7 12TAEK 8	
12 (K10) TBPR	12 (K15) XTSR	12 (K13) ERCR	12 (K13) WRGR	12 (K7) ERGPR	12 (K2) TAR
B1 12WAS B2 12EAS1 F3 12TSPA B4 12XTS1 B5 12XTS1B F6 12TP2 B7 12BEK 8	F1 12TAP F2 12TBP F3 12XTSA B4 12TP B5 TRPBS B6 12-16TRPEKA	1 12WRCL F2 12ED F3 12NED B4 12EAS2	1 12ERCL F2 12ND F3 12NWD B4 12WAS2	1 12ERC1 F2 12EAS3 3 12NGEK3 4	F1 12TAPI 2 3 4
12 (K7) WRGR	12 (K9) EASR	12 (K9) WASR	12 (K9) TPR	12 (K9) TER	12 (K2) TBR
1 12WRCL F2 12WAS3 3 12NGEK3 4	F1 12WRCL 2 12ED2 3 12EAS1A F4 A+STP4 F5 12NGEK1 6	F1 12ERC6 2 12ED6 3 12WAS1A 4 12TE1 F5 A+STP3 F6 12NGEK	F1 12ERC3 F2 12ED2 F3 12TE F4 12NLP F5 A+STP5 B6 12-16TRPEK1A	F3 12WASB F7 12EASB B10 12ED5 12	F1 12TBP1 2 3 4

10E-12E-16E LOC.

16 (70) EDR	POR (K73)
B1 16ERG 2 16EGE 3 16ERE 4	1 EBX-1 2 ECX-1 3 EBX-2 4 ECX-2
10 (70) EDR	10 (K7) EBER
B1 10ERG 2 10EBR1E B3 10EBHB 4	B1 10ERG1 2 10EBY1E 3 4
10 EALOR	GRS 500.084 DWG# 53000 285-56
1 10EBY1E 2	
12 (K7) EDR	
B1 12ERG B2 12ERG 3 12ERE 4	

12W-16W LOC.

16 (K7) WDR	POR (K22)	12 (K7) WDR
B1 16WRGP 2 16WGE 3 16WRE 4	1 EN 2 EB 3 4	B1 12WRGP B2 12WRGP 3 12WRE 4

NO CHANGES
 CWDB618488A 02-21-08
 IL2006039A SWE/JWM/
Southwest
 Signal Engineering Co.

REVISIONS					
12-13-72 REPORT M.D.H. 10-5-72					
05-08-06 VECTOR CREATED BY SWE IL2004014					
RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS BLACK LANE TO K TOWER NW CABIN, A & S CROSSING A & S RELAY DETAILS ROSE LAKE, IL M.P. BC-331.10					
DESIGNED CSX	DIGITIZED SWE	CHECKED CSX	DATE 05-08-06		
DRAWING 1630-6	SHEET NO 44	NEXT SH 45	NEXT FILE BC33110	NEXT SH C43	SHEET C42

LOC. #	C.I.L.
1	2HA #9
2	CHA #9
3	
4	ITP #9
5	NITP #9
6	2WHP #9
7	N2WHP #9
1	4EA
2	N4EA
3	8EA
4	N8EA
5	4ERG
6	N4EBNA
7	4EBNA
8	N4EBNB
9	4EBNB1
10	4EAHA
11	4EAHB1
12	NAED
13	NXEAH
14	BGAH
15	NXEBH
16	BEBH1
17	BERGP
18	GERGP
19	N6EH
20	6EH
21	STAP
1	NSTAP
2	NBEAD
3	BEAD1
4	4ED1
1	2WHHP
2	N2WHHP
3	
4	BEEDP2
5	NBEEDP
6	10HY
7	N10HY
8	10HYBP
9	N10HYBP #9

#1 SW	C.I.L.
1	N1WC
2	1WC
3	N
4	1WCI
5	1HBX110
6	1HNX110
7	SP1
8	SP2
9	SP3
10	SP4
11	SP5
12	SP6
13	1RW #8
14	1CW #8
15	1NW #8

#5 SW	C.I.L.
1	N5WC
2	5WC
3	N
4	5WCI
5	5HBX110
6	5HNX110
7	SP1
8	SP2
9	SP3
10	SP4
11	SP5
12	SP6
13	5RW #8
14	5CW #8
15	5NW #8

3B SW	C.I.L.
1	N
2	3WCI
3	3HBX110
4	3BNX110
5	SP1
6	N3NWCA
7	N3RWCA
8	3NWCA
9	SP5
10	SP2
11	SP3
12	SP4
13	3BRW #8
14	3BCW #8
15	3BNW #8

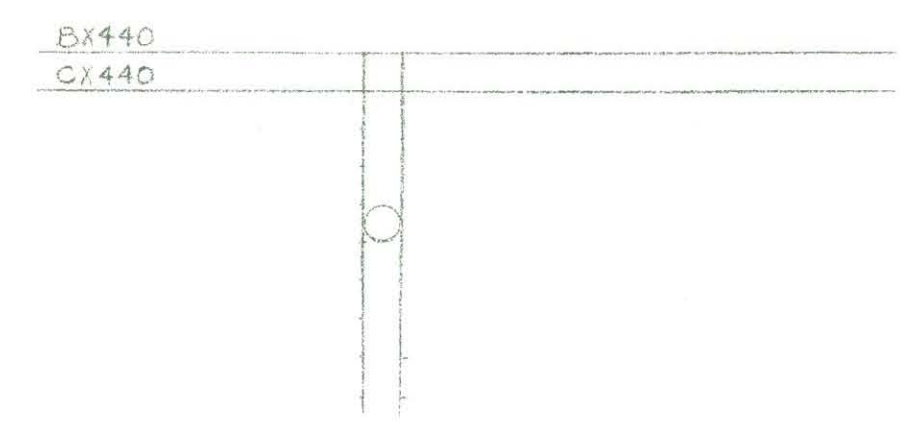
3A SW	C.I.L.
1	N3WC
2	3WC
3	3AHBX110
4	3AHNX110
5	SP1
6	N3NWCA
7	N3RWCA
8	3NWCA
9	SP5
10	SP2
11	SP3
12	SP4
13	3ARW #8
14	3ACW #8
15	3ANW #8

C.I.L.	LOC. SIG. GW-BW
1	NSTAP
2	STAP
3	NBWA
4	BWA
5	N4LTOP
6	42LTOP
7	N2EH1
8	2EH2
9	42LHY
10	N42LHY
11	N1EHDI
12	1EHDI
13	GWAA1
14	N(LW)
15	4HY
16	N4HY
17	GWCHA
18	N6WCHA
19	GWCHB1
20	N6WCHB
21	GWAH
22	GWBH1
23	BWHA
24	BWHB1
25	GWGRP
26	BWRGP
27	N6W
28	SP
29	SP
30	SP
31	SP
32	NBWA
33	2WHHP
34	N2WHHP
35	SP
36	SP
37	BWD1
1	N7WC
2	7WC
3	7NWZ
4	7RWZ
5	N9WC
6	9WC
7	9NWZ
8	9RWZ
9	7B110 (#6)
10	7N110 (#6)
11	9B110 (#6)
12	9N110 (#6)
13	SP (#6)
14	BEEDP2
15	NBEEDP

C.I.L.	LOC. (PC LINE TRANS) #9
1	BX110 (PC LINE TRANS) #9
2	CX110 (PC LINE TRANS) #9
3	BX110 (PC POLE LINE TO GW-BE LOC) #9
4	CX110 (PC POLE LINE TO GW-BE LOC) #9
1	BX110 (B/O 460 LINE) #9
2	CX110 (B/O 460 LINE) #9

C.I.L.	LOC. GW-BW
1	NW11C
2	11WC
3	11NWZ
4	11RWZ
5	SP
6	SP
7	SP
8	SP
9	SP
10	SP
11	11B110 #6
12	11N110 #6
13	SP #6
14	N(LW) #6
15	N #6

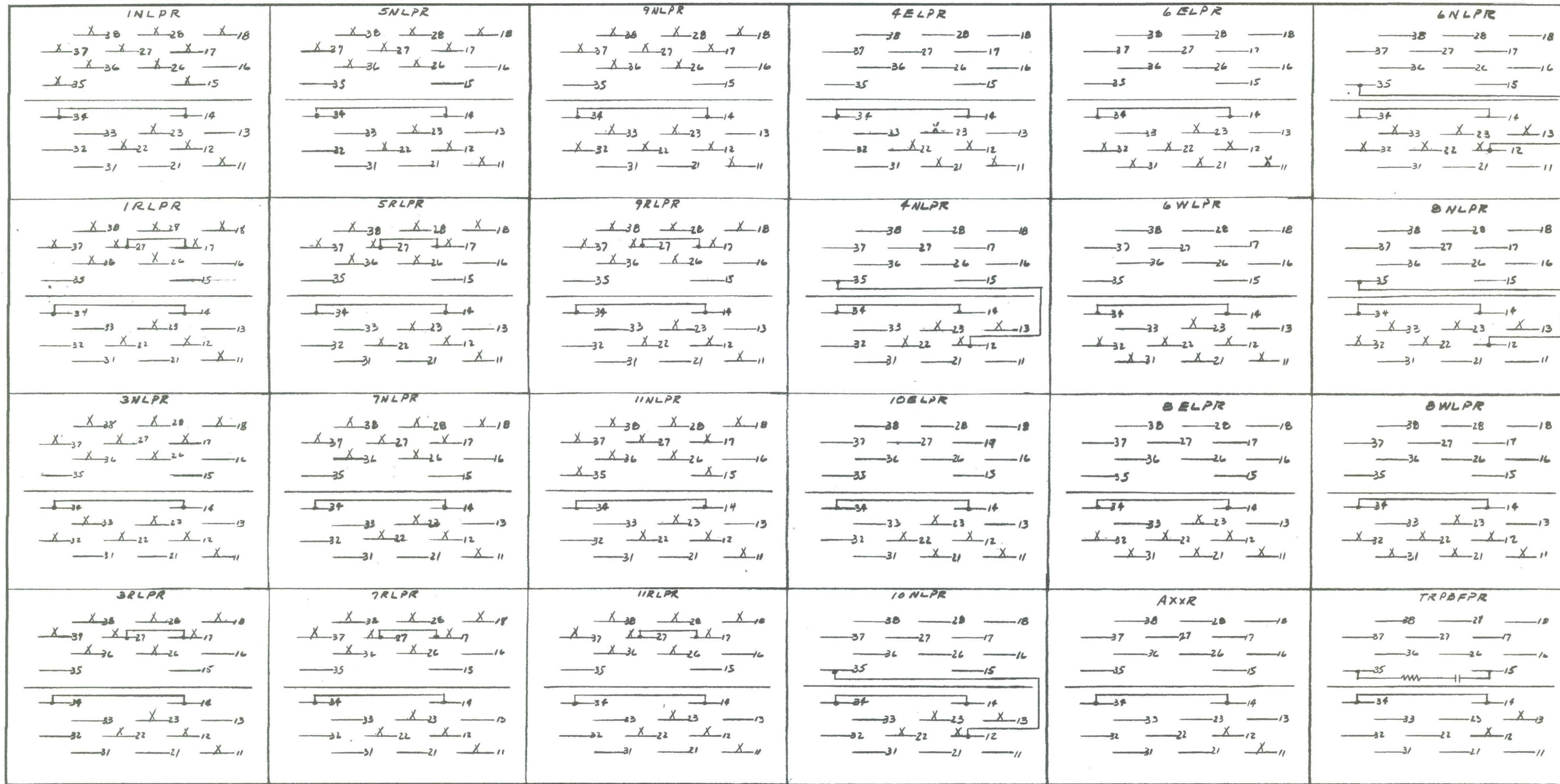
NOTE: ALL CONDUCTORS #14 EXCEPT AS INDICATED
C.I.L. = CENTRAL INST. LOC.



NO CHANGES
CVD061848A 02-21-08
112006039A SWE/JWH/



REVISIONS			CSX TRANSPORTATION			
04-06-04 SWE	IL2003001		RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
05-08-06 VECTOR CREATED BY SWE	IL2004014		BLACK LANE TO K TOWER			
12-15-06 SWE	IL2005029		NR CABIN, A & S CROSSING			
			CABLE ARRANGEMENT & POLELINE			
			ROSE LAKE, IL M.P. BC-331.10			
DESIGNED CSX	DIGITIZED SWE	CHECKED CSX	DATE 05-08-06			
DRAWING 1630-6	SHEET NO 45	NEXT SH 46	NEXT FILE BC33110	NEXT SH C44	FILE BC33110	SHEET C43



CONTACT ARRANGEMENT REAR VIEW TYPE "J" RELAYS

FRONT	HEEL	BACK
13	12	11
18	17	16
23	22	21
28	27	26
33	32	31
38	37	36

FRONT COIL 34—35
 REAR COIL 14—15

RELAYS 31500 GRS GRI

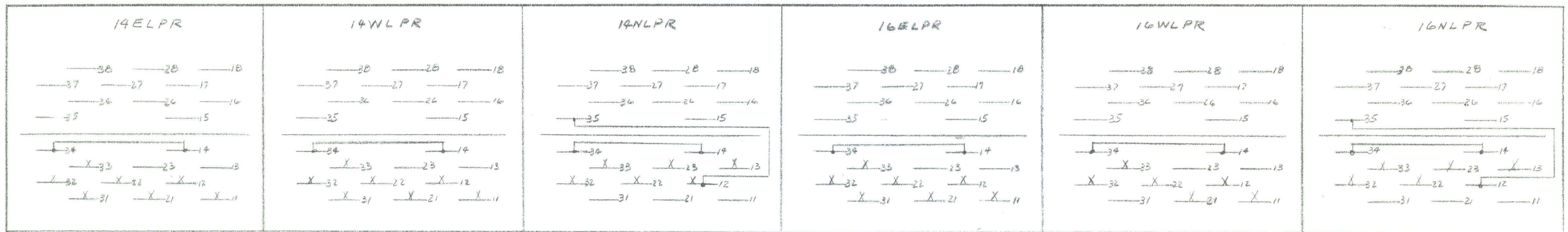
(RACK) NON-VITAL
 RELAYS WIRED #18 SLATE

X = IN USE

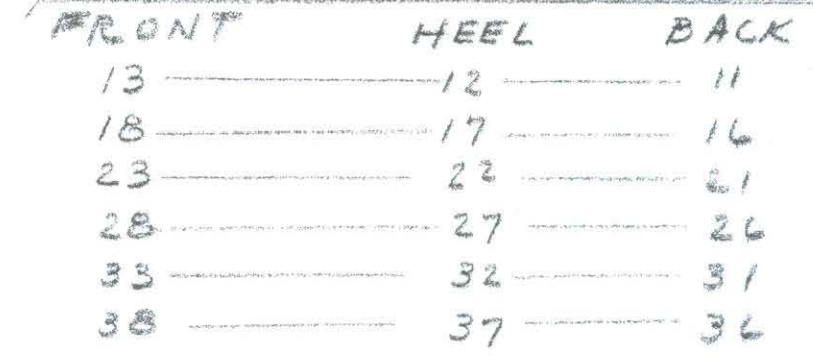
NO CHANGES

CW08618488A 02-21-88
IL2006039A SWE/JWM/

REVISIONS			RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS							
3-24-72 REPORT R.W.A. 1-12-72			BLACK LANE TO K TOWER HW CABIN, A & S CROSSING NON-VITAL RELAY DETAILS ROSE LAKE, IL M.P. BC-331.10							
05-88-06	VECTOR CREATED BY SWE	IL2004014								
DESIGNED CSX	DIGITIZED SWE	CHECKED CSX	DATE 05-88-06	DRAWING 1630-6	SHEET NO 46	NEXT SH 47	NEXT FILE BC33110	NEXT SH C45	FILE BC33110	SHEET C44



CONTACT ARRANGEMENT REAR VIEW TYPE "J" RELAYS

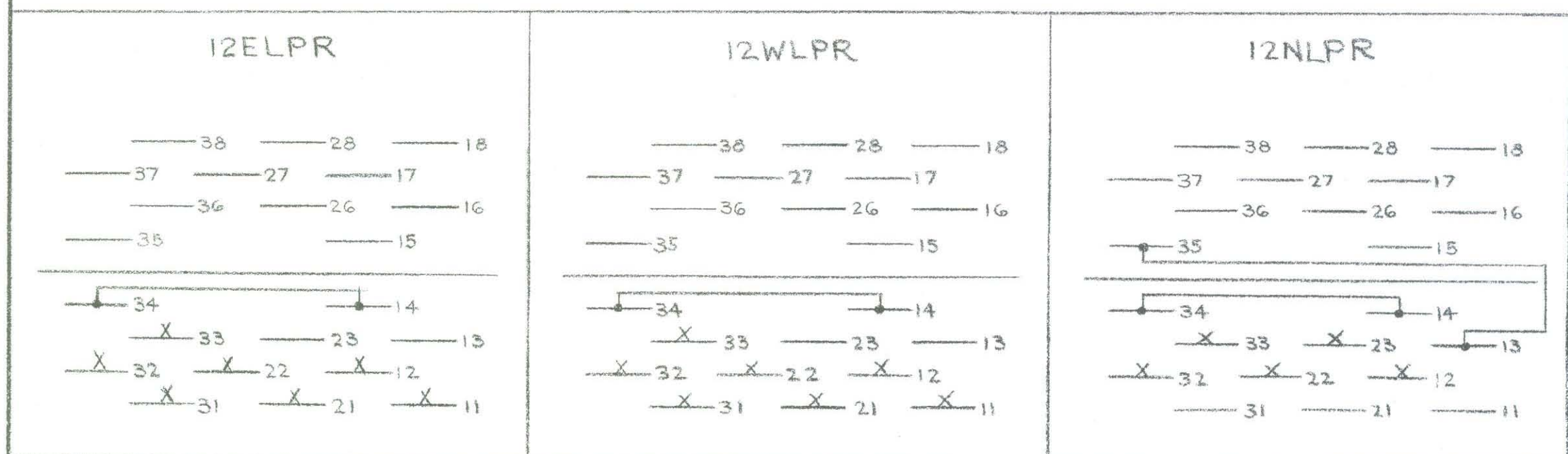


FRONT COIL 34-35
REAR COIL 14-15

X= IN SERVICE
(RELAYS WIRED SLATE)
#18 FLEX

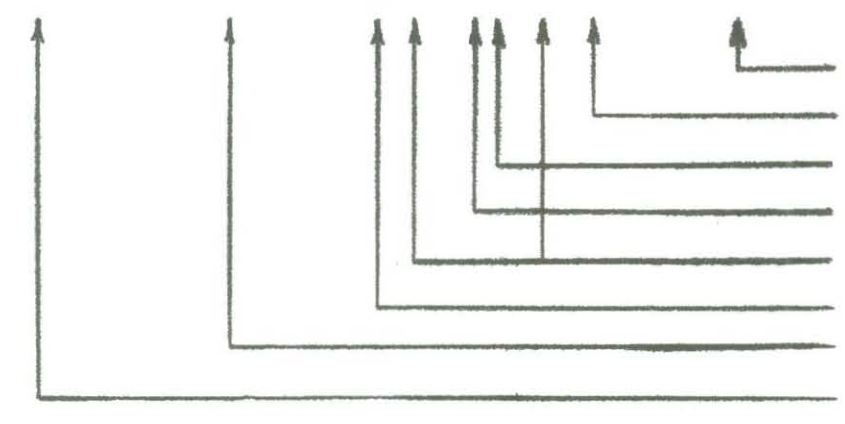
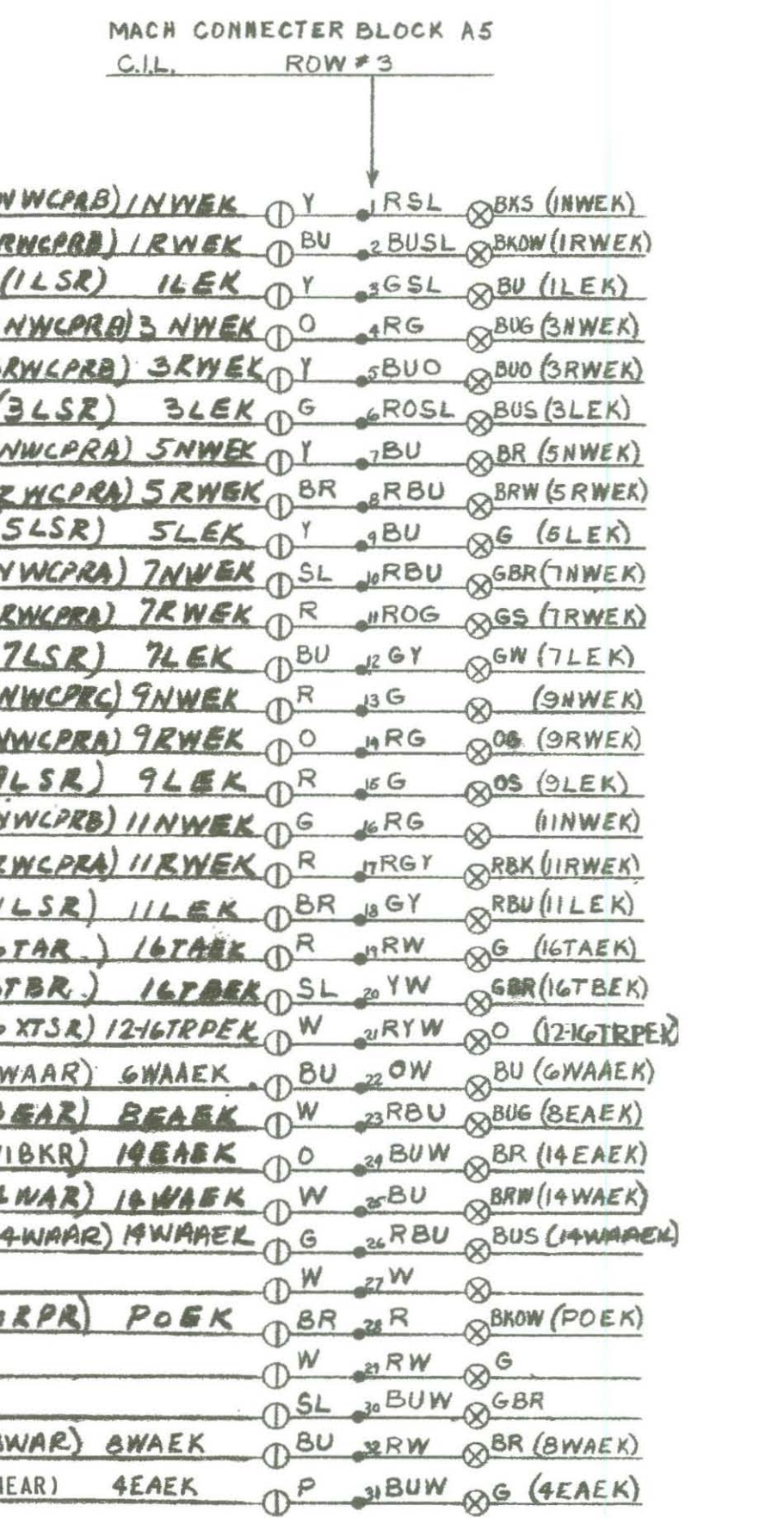
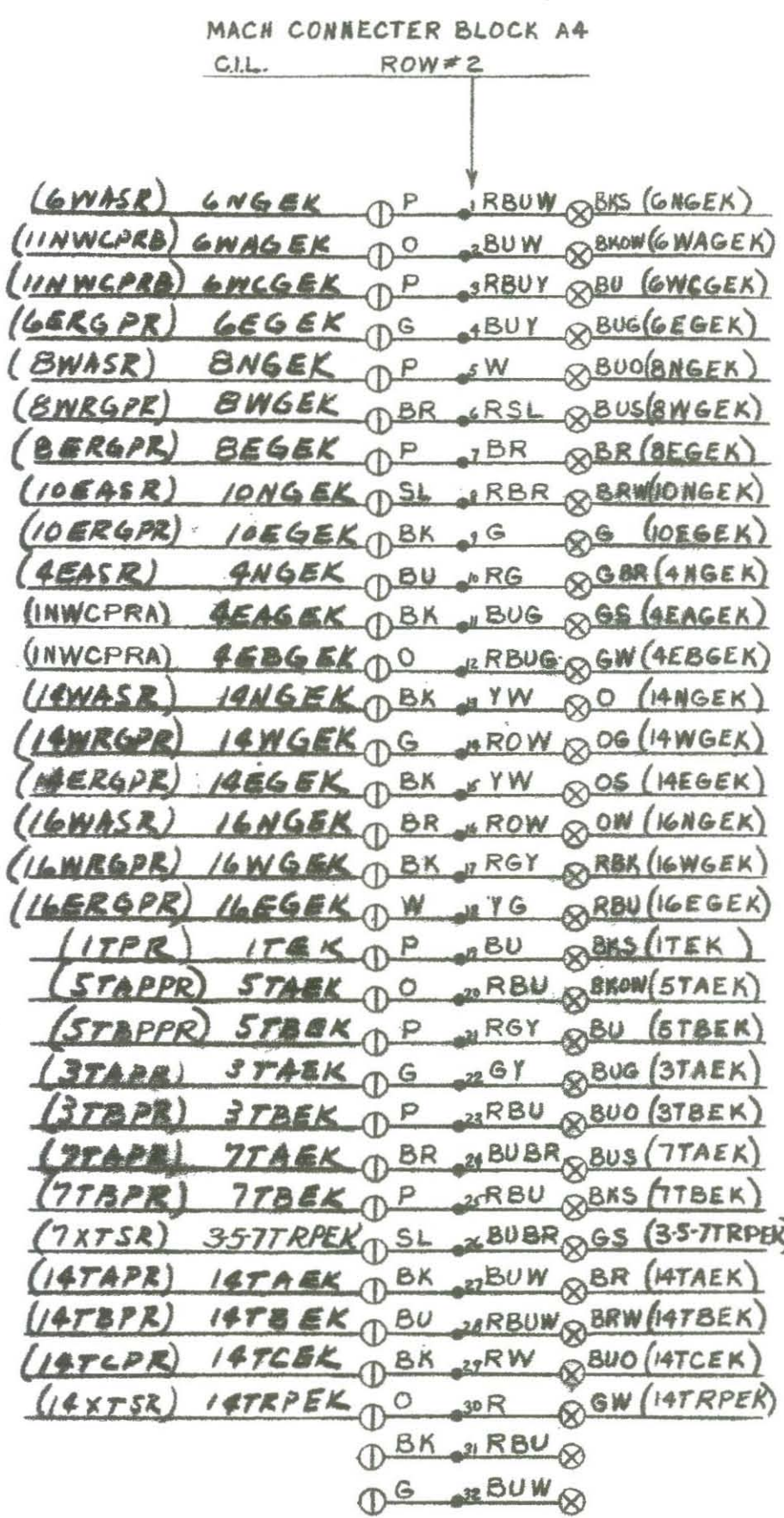
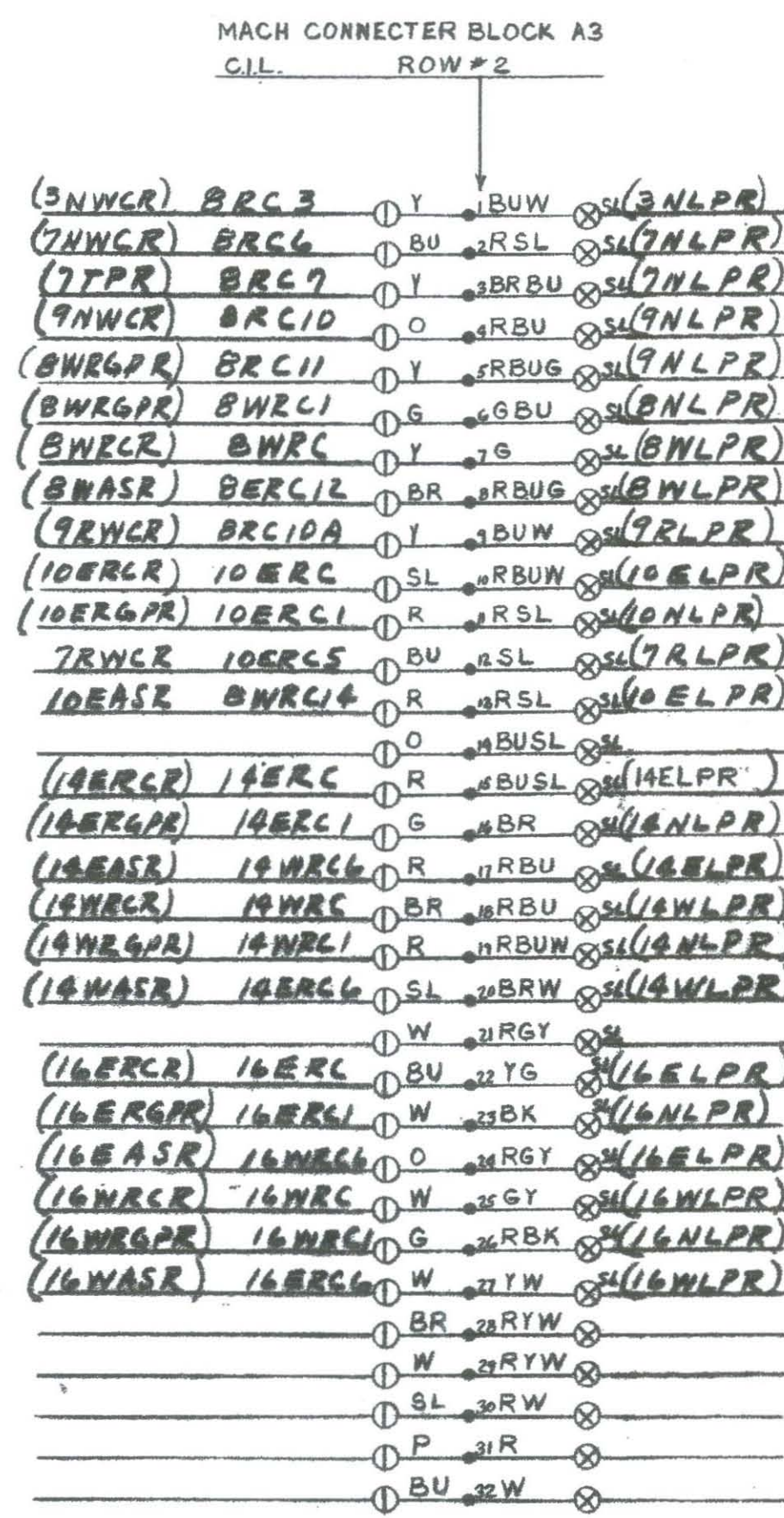
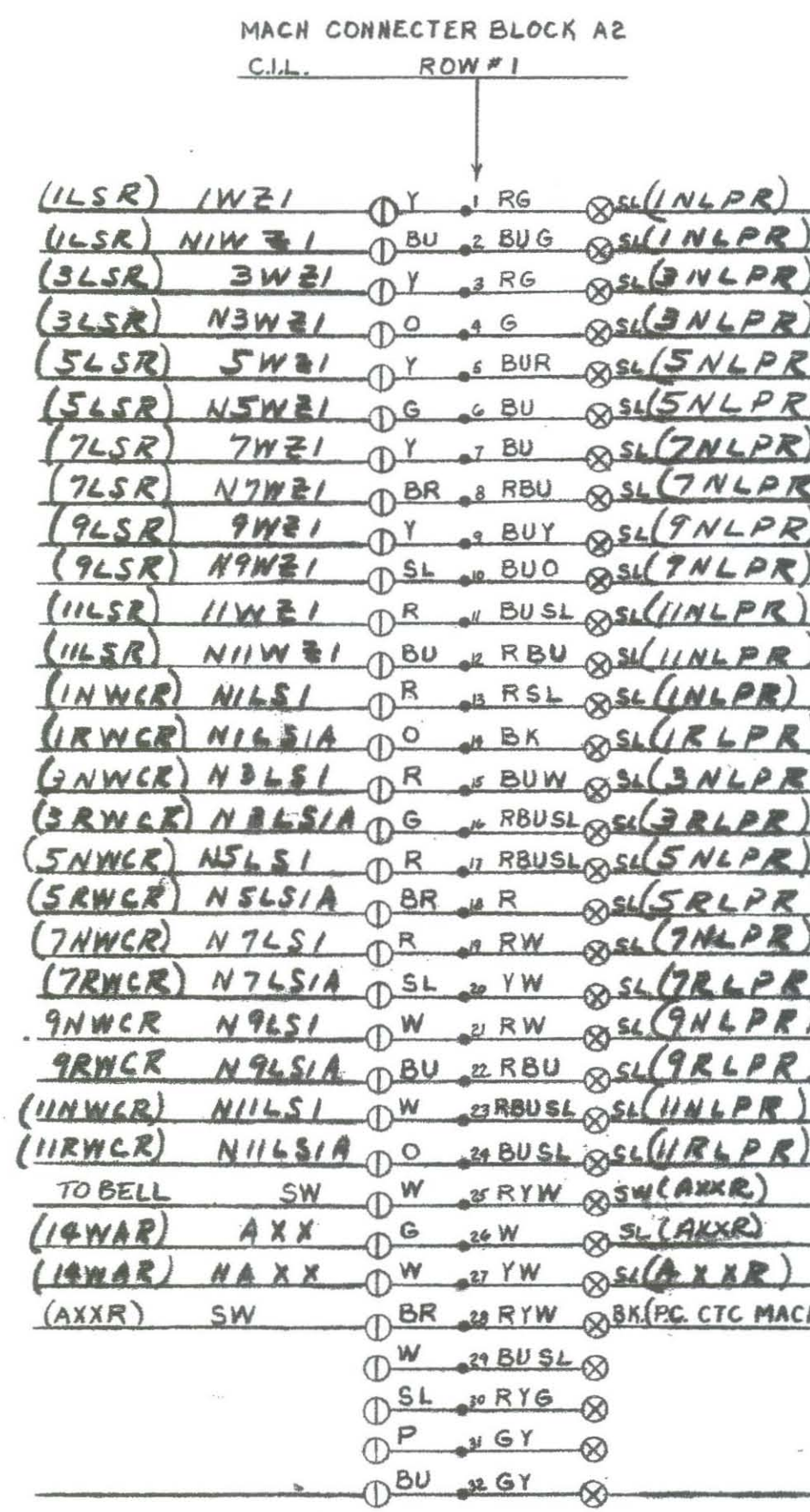
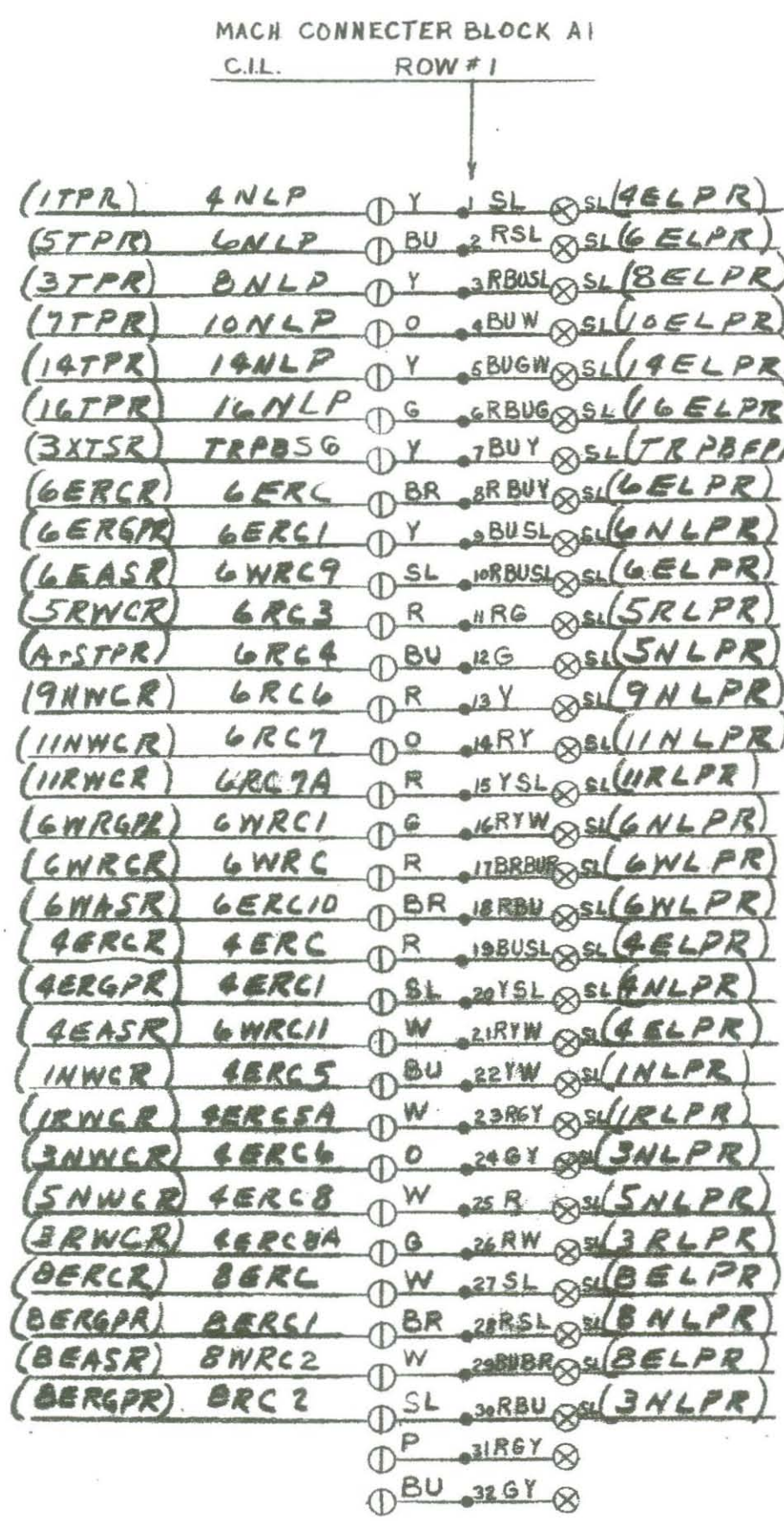
1NLPR	5NLPR	9NLPR	4ELPR	6ELPR	6NLPR
1RLPR	5RLPR	9RLPR	4NLPR	6WLPR	6NLPR
3NLPR	7NLPR	11NLPR	10ELPR	8ELPR	8WLPR
3RLPR	7RLPR	11RLPR	10NLPR	AXXR	TRBPR
14ELPR	14WLPR	14NLPR	16ELPR	16WLPR	16NLPR
12ELPR	12WLPR	12NLPR			

NON-VITAL RELAY RACK
31500 GRS GR1



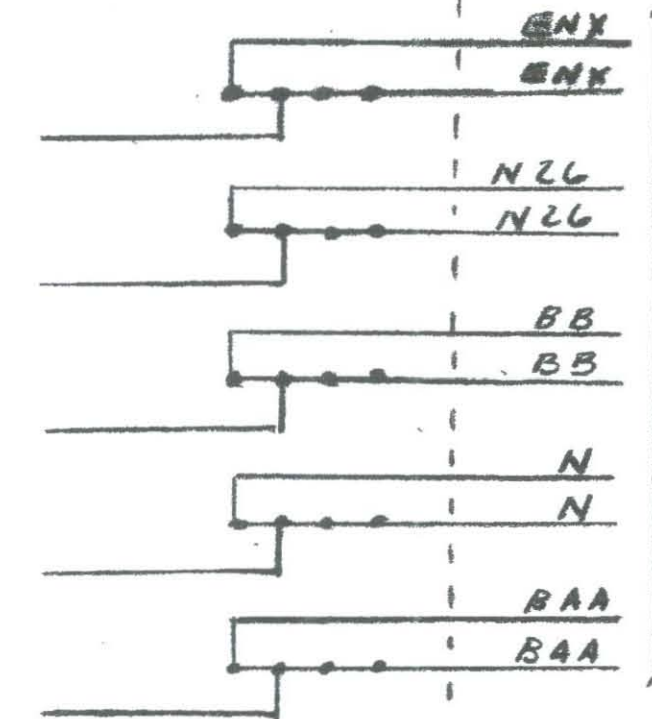
NO CHANGES
CWD0618488A 1L2006039A
02-21-08 SWE/JWH/
Southwest
Signal Engineering Co.

REVISIONS					
12-13-72 REPORT H.D.H. 10-5-72					
05-08-06 VECTOR CREATED BY SWE 1L2004014					
RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS					
BLACK LANE TO K TOWER NW CABIN, A & S CROSSING NON-VITAL RELAY DETAILS ROSE LAKE, IL M.P. BC-331.10					
DESIGNED CSX	DIGITIZED SWE	CHECKED CSX	DATE 05-08-06		
DRAWING 1630-6	SHEET NO 47	NEXT SH 48	NEXT FILE BC33110	NEXT SH C46	SHEET C45



NON-VITAL RELAY OR IND. LAMP.
 TERMINAL AT NON-VITAL RELAY RACK
 CONNECTING CABLE
 TERMINAL BOX IN TOWER
 COLOR CODE
 TERMINAL AT VITAL RELAY RACK
 WIRE TAG
 VITAL RELAY

① #18 SOLID #22 SOLID
 (25 PAIR CABLES)
 (SPARES UNLESS SHOWN)



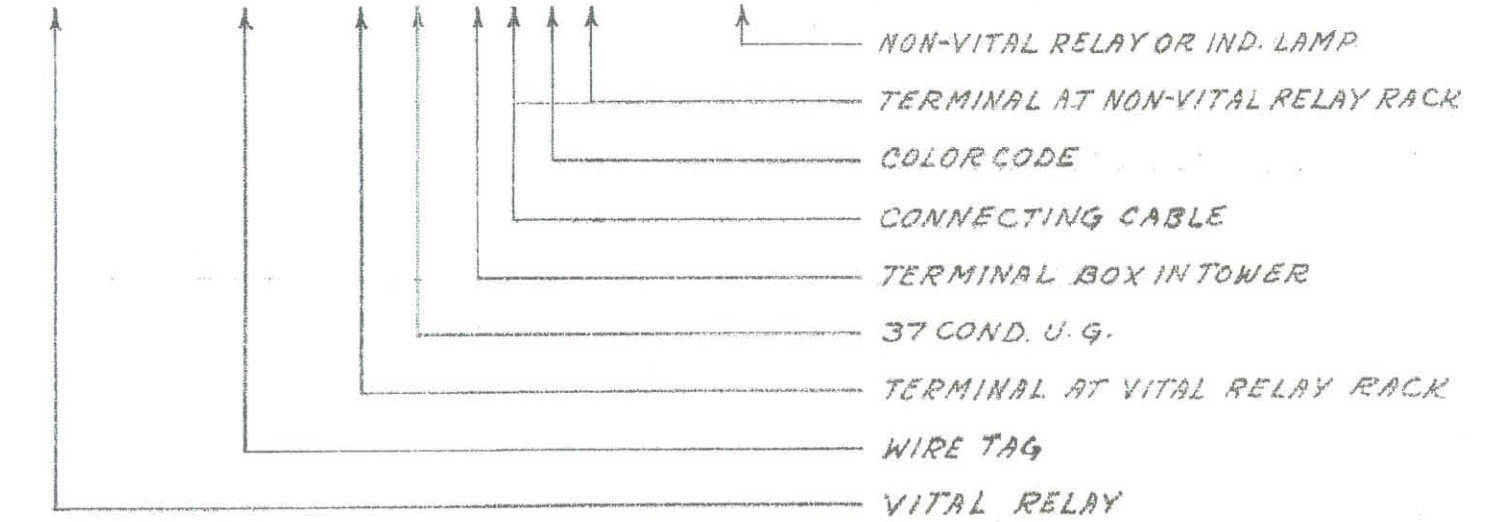
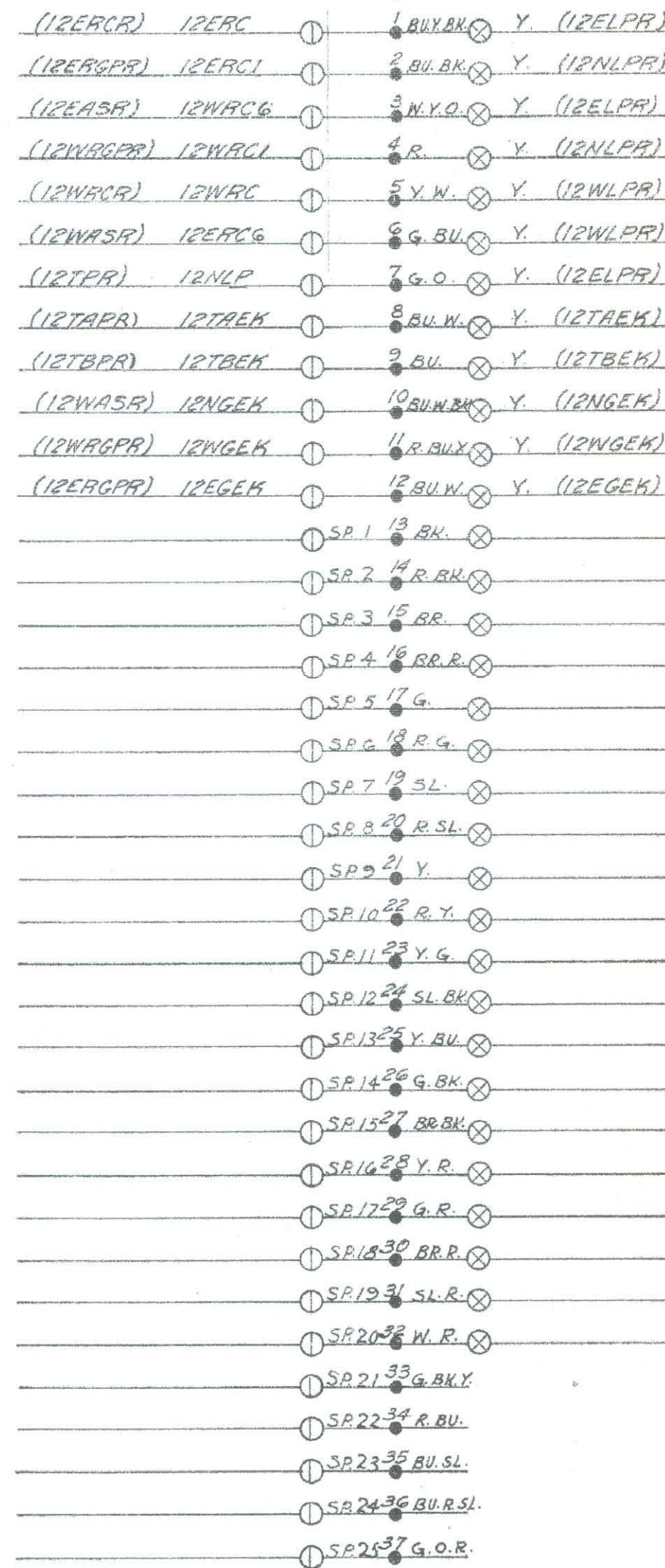
POWER BUSES
 IN NON-VITAL RELAY RACK
 IN CONTROL MACHINE

TO MAIN
 HOUSE BUSES
 (2-7 COND. #9 U.S.)

NO CHANGES
 CWD0618488A IL2006039A
 02-21-08 SWE/JWW/
 Southwest
 Signal Engineering Co.

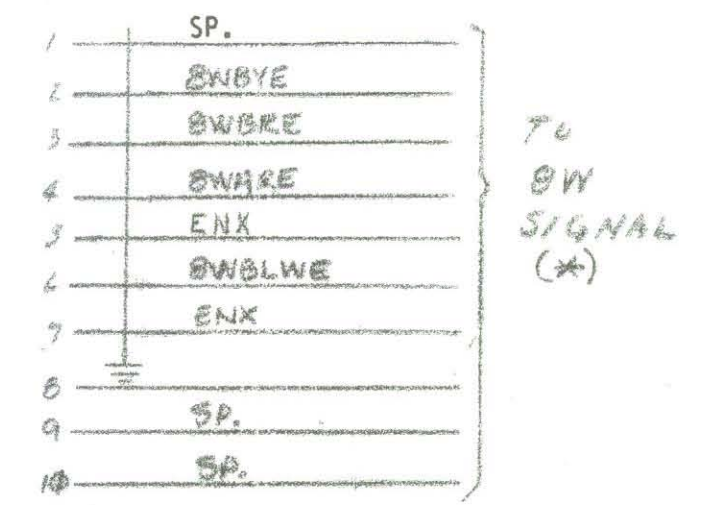
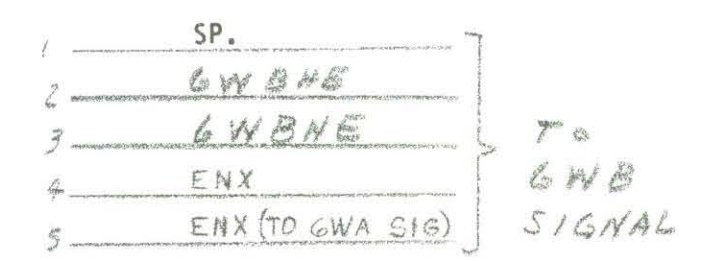
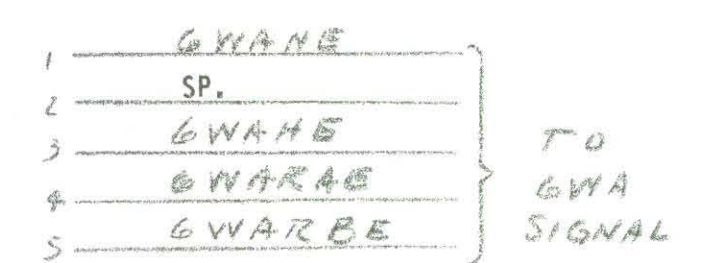
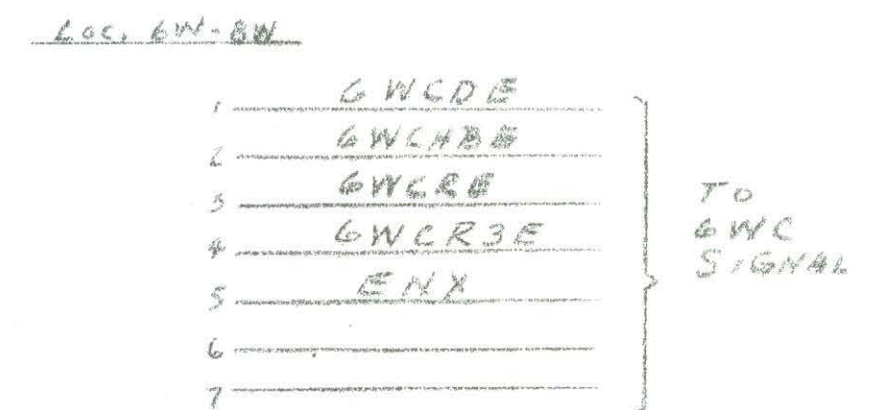
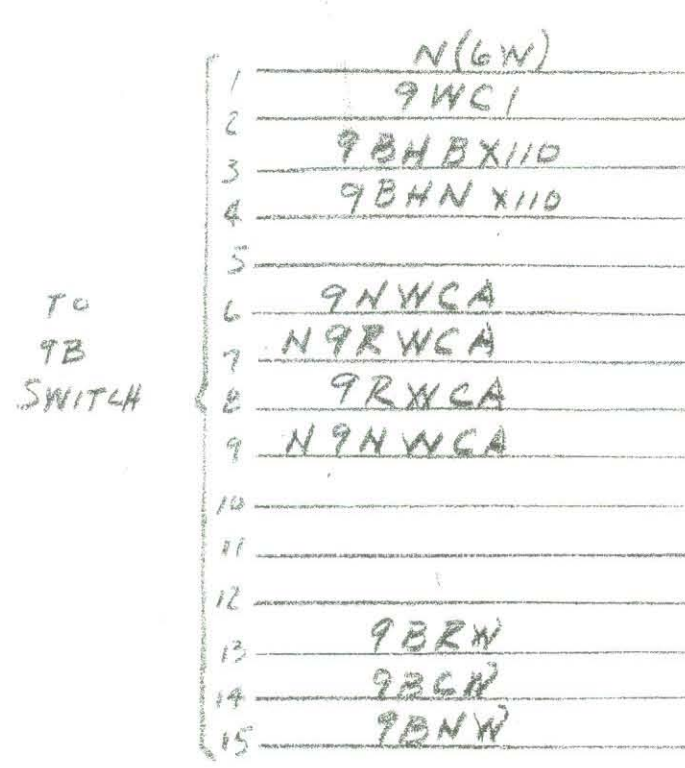
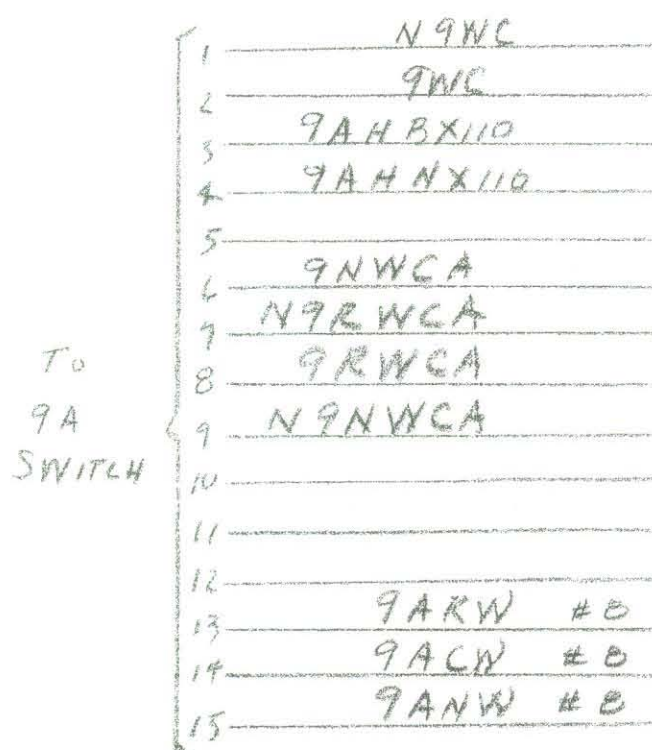
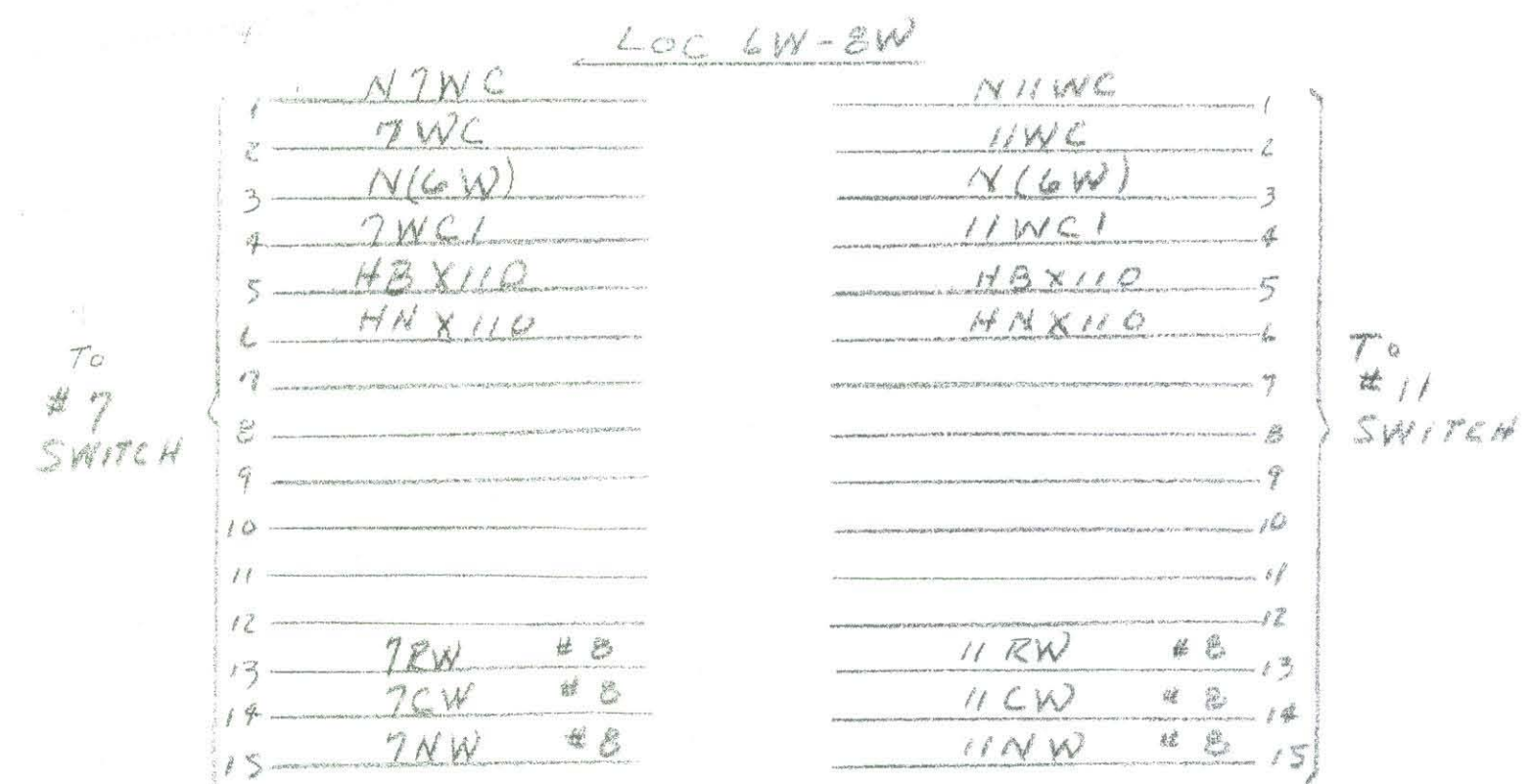
REVISIONS			RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
10-7-93	IL92069	SWE				
04-06-04	SWE		IL2003001			
05-08-06	VECTOR CREATED BY SWE		IL2004014			
			BLACK LANE TO K TOWER NN CABIN, A & S CROSSING CONNECTING CABLES VITAL RELAY TO CONTROL MACHINE ROSE LAKE, IL M.P. BC-331.10			
DESIGNED	DIGITIZED	CHECKED	DATE			
CSX	SWE	CSX	05-08-06			
DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
1630-6	48	48-1	BC33110	C47	BC33110	C46

MACH. CONNECTOR BLOCK AG
C.I.L. ROW # 3




NO CHANGES
 CWD0618488A IL2006039A
 02-21-08 SWE/JWM/
Southwest
 Signal Engineering Co.

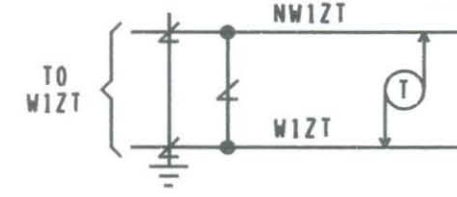
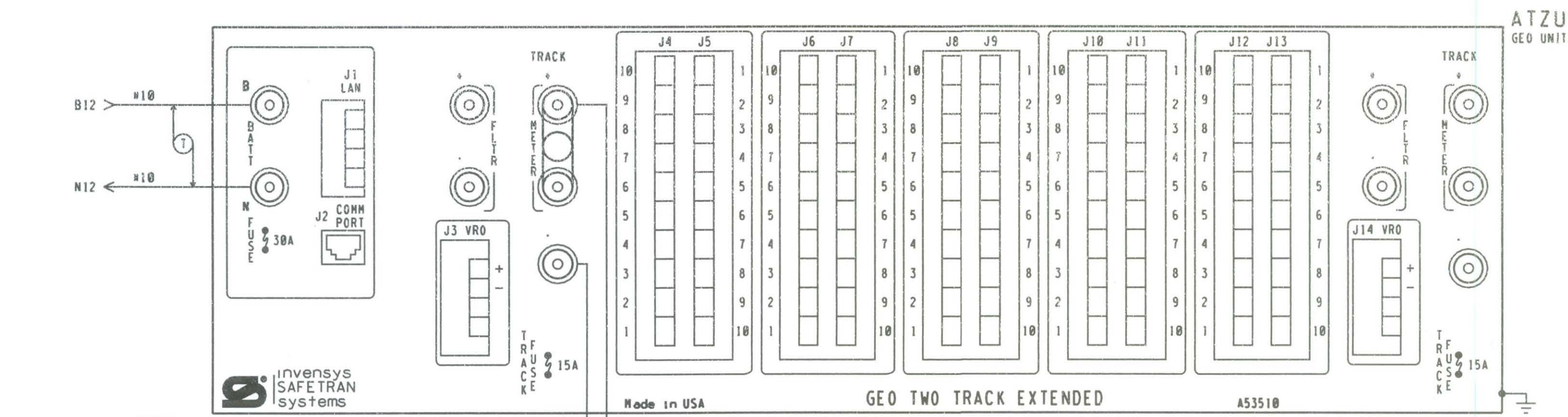
REVISIONS			
12-13-72 REPORT M.D.H. 10-5-72			
05-08-06 VECTOR CREATED BY SWE IL2004014			
BLACK LANE TO K TOWER NW CABIN, A & S CROSSING CONNECTING CABLES VITAL RELAY TO CONTROL MACHINE ROSE LAKE, IL M.P. BC-331.10			
DESIGNED CSX	DIGITIZED SWE	CHECKED CSX	DATE 05-08-06
DRAWING 1630-6	SHEET NO 48-1	NEXT SH 49	NEXT FILE BC33110
	NEXT SH C48	FILE BC33110	SHEET C47



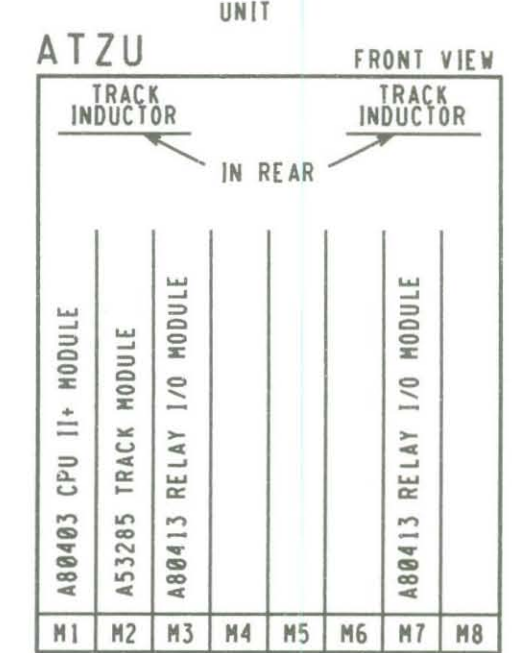
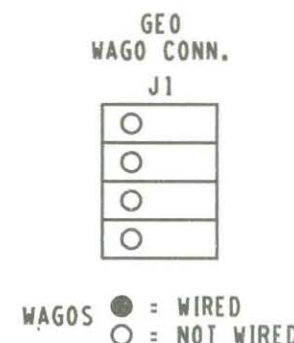
(*) = 10 COND. #9 U.G.
SIG. CABLE 7 COND. #14
" " 5 COND. #14
SW. CABLE 15 COND.
3-#8 + 12-#14

NO CHANGES
CWD0618488A IL2006039A
02-21-08 SWE/JWH/
Southwest
Signal Engineering Co.

REVISIONS			
04-06-04 SWE	IL2003001, IL2003001A		
05-08-06	VECTOR CREATED BY SWE	IL2004014	
08-14-07 SAF	IL2005019C		
 RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS BLACK LANE TO K TOWER NN CABIN, A & S CROSSING SWITCH AND SIGNAL CABLES (LOC 6W-8W) ROSE LAKE, IL M.P. BC-331.10			
DESIGNED	DIGITIZED	CHECKED	DATE
CSX	SWE	CSX	05-08-06
DRAWING	SHEET NO	NEXT SH	NEXT FILE
1630-6	49	50	BC33110
			NEXT SH
			FILE
			BC33110
			SHEET
			C48



(J1)	(J3)		(J14)	
ECH1	VR01+	NOT USED	VR01+	NOT USED
ECH2	VR01-	NOT USED	VR01-	NOT USED
NOT USED	NOT USED	NOT USED	NOT USED	NOT USED
NOT USED	NOT USED	NOT USED	NOT USED	NOT USED



PIN	MODULE 3 (J4)		MODULE 4 (J6)		MODULE 5 (J8)		MODULE 6 (J10)		MODULE 7 (J12)	
10	VR01 +		VR01 +		VR01 +		VR01 +		VR01 +	
9	VR01 -		VR01 -		VR01 -		VR01 -		VR01 -	
8	VR02 +	14EHR	VR02 +		VR02 +		VR02 +		VR02 +	
7	VR02 -	N14EHR	VR02 -		VR02 -		VR02 -		VR02 -	
6	VR03 +	14WER (WAR)	VR03 +		VR03 +		VR03 +		VR03 +	14WAAR
5	VR03 -	N14WER (WAR)	VR03 -		VR03 -		VR03 -		VR03 -	N14WAAR
4	VR04 +	14EDR	VR04 +		VR04 +		VR04 +		VR04 +	
3	VR04 -	N14EDR	VR04 -		VR04 -		VR04 -		VR04 -	
2	VP11 +	LCODE ENA	VP11 +		VP11 +		VP11 +		VP11 +	
1	VP11 -	NLCODE ENA	VP11 -		VP11 -		VP11 -		VP11 -	
PIN	MODULE 3 (J5)		MODULE 4 (J7)		MODULE 5 (J9)		MODULE 6 (J11)		MODULE 7 (J13)	
1	VP12 +	LCODE2	VP12 +		VP12 +		VP12 +		VP12 +	E1AR
2	VP12 -	NLCODE2	VP12 -		VP12 -		VP12 -		VP12 -	N1EAR
3	VP13 +	LCODE6	VP13 +		VP13 +		VP13 +		VP13 +	
4	VP13 -	NLCODE6	VP13 -		VP13 -		VP13 -		VP13 -	
5	VP14 +	LCODE7	VP14 +		VP14 +		VP14 +		VP14 +	
6	VP14 -	NLCODE7	VP14 -		VP14 -		VP14 -		VP14 -	
7	NOT USED	NOT USED	NOT USED		NOT USED		NOT USED		NOT USED	NOT USED
8	NOT USED	NOT USED	NOT USED		NOT USED		NOT USED		NOT USED	NOT USED
9	NOT USED	NOT USED	NOT USED		NOT USED		NOT USED		NOT USED	NOT USED
10	NOT USED	NOT USED	NOT USED		NOT USED		NOT USED		NOT USED	NOT USED

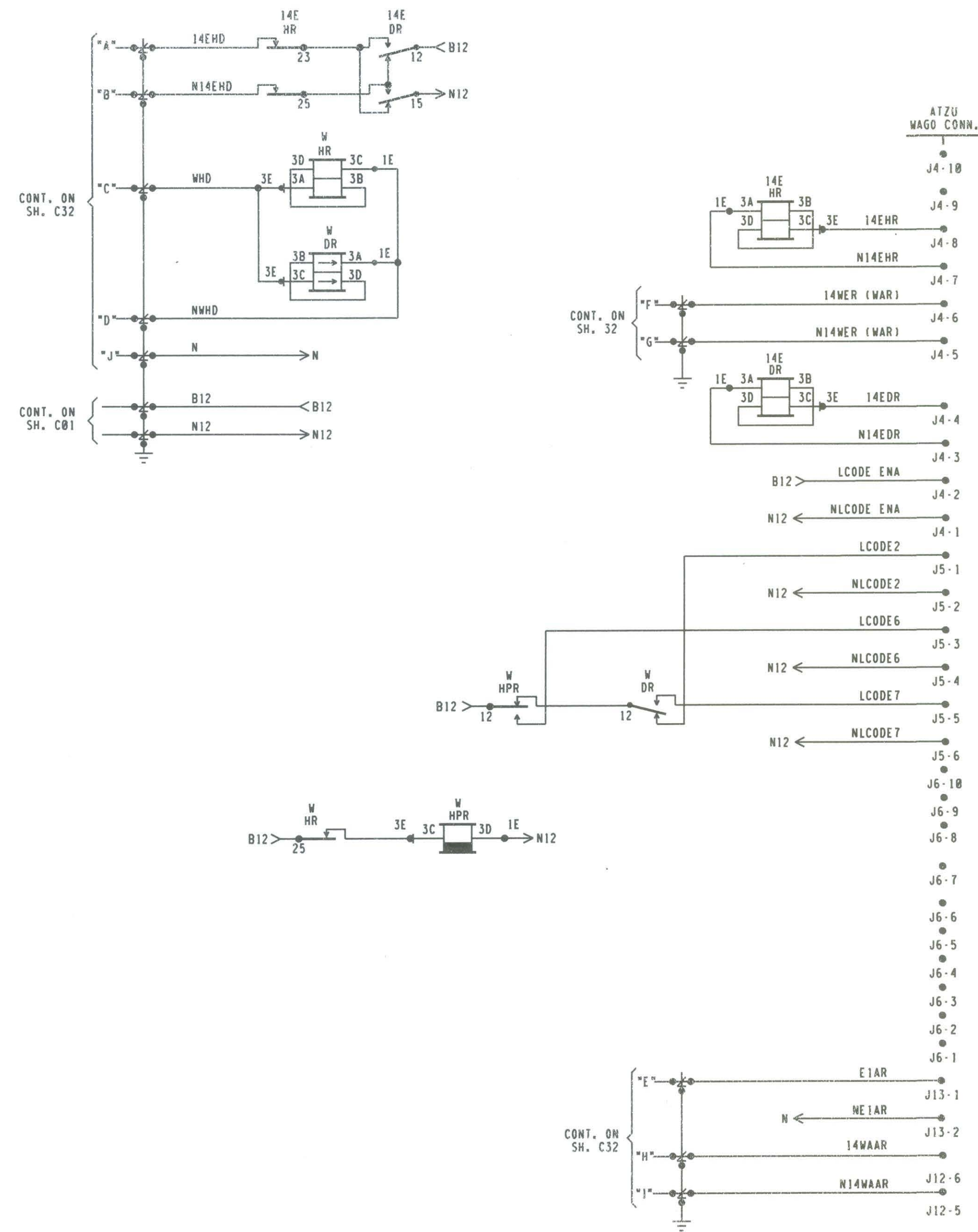
MCF NAME	CSXAME0001
MCF CRC	3D1AFAB0
UCN	26699B62
SIN	712526400902

NO CHANGES
 CWD0618488A IL2006039A
 02-21-08 SWE/JJM/
Southwest
 Signal Engineering Co.

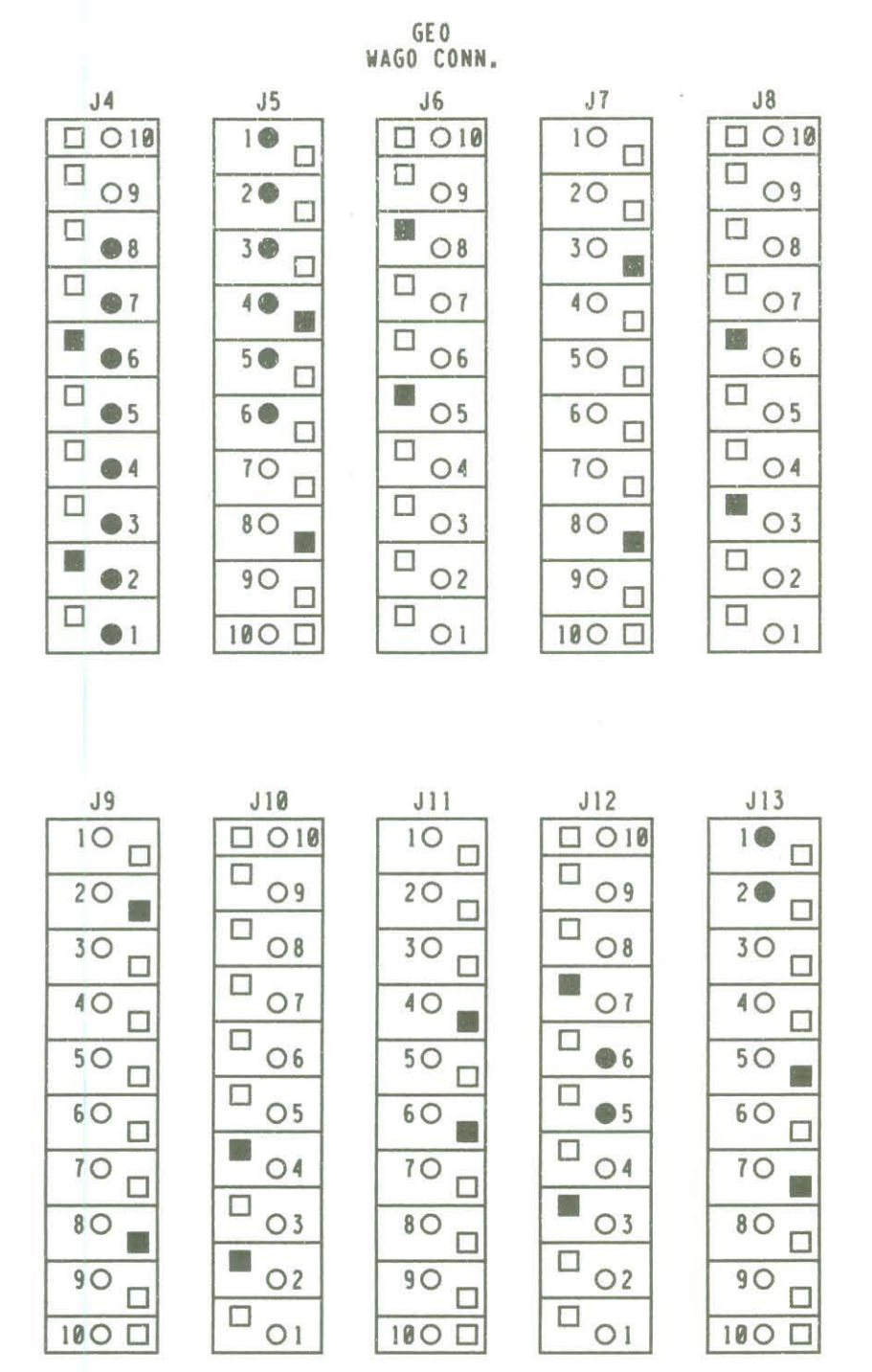
NOTES:
 1. [] : TAGGING PURPOSES ONLY.

LOGICAL / OBJECT CONFIG.	
TIMERS	SETTING
E0B1 VVCT	2 SEC.
E0B1 CNDT	15 SEC.
E0B2 VVCT	2 SEC.
E0B2 CNDT	15 SEC.
PHYSICAL / MODULE / VLP2 CONFIG.	
OPTIONS	SETTING
DAYLIGHT SAVINGS	ON
UNITS	STANDARD
LOW BATT ENABLE	OFF
LOW BATT LEVEL	90 dV
RADIO SUBNODE	1
PASSWORD ACCESS	OFF
PASSWORD	1111
PHYSICAL / MODULE / SL2 CONFIG.	
OPTIONS	SETTING
CODE 5	ALTERNATING
EC4 COMPATIBILITY	EC4 PLUS
NON-VITAL CHANGE	2
VITAL CHANGE	2
SHUNT DROP	2
SHUNT PICK	5
PHYSICAL / MODULE / SL8 CONFIG.	
OPTIONS	SETTING
CODE 5	ALTERNATING
EC4 COMPATIBILITY	EC4 PLUS
NON-VITAL CHANGE	2
VITAL CHANGE	2
SHUNT DROP	2
SHUNT PICK	5

REVISIONS				RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
08-14-07 SAF IL2005019C				BLACK LANE TO K TOWER ROSE LAKE, IL (A&S CROSSING) GEO CIRCUITS MP, BC-331.10			
DESIGNED	DIGITIZED	CHECKED	DATE				
SAF/WRP	SAF/WRP	SAF/GFS	03-28-06				
DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET	
1630-6	50	51	BC33110	C50	BC33110	C49	



MHR	WDR	WVHR	14EHR	14EDR
12	FB	FB	B8	FB
15	C30	C30	C30	FB
22	C41			C30
23			F	C42
25	F		F	
32				
35				



● WIRED
 ○ NOT WIRED
 ■ CUT
 □ NOT CUT

NO CHANGES
 CWD0618488A IL2006039A
 02-21-08 SWE/JWM/
Southwest
 Signal Engineering Co.

REVISIONS		RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS			
08-14-07 SAF IL2005019C		BLACK LANE TO K TOWER ROSE LAKE, IL (A&S CROSSING) GEO RELAY CIRCUITS HP. BC-331.10			
DESIGNED SAF/AVB	DIGITIZED SAF/AVB	CHECKED AVB/RJD	DATE 12-05-05		
DRAWING 1630-6	SHEET NO 51	NEXT SH	NEXT FILE	NEXT SH	FILE BC33110