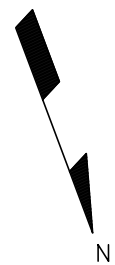
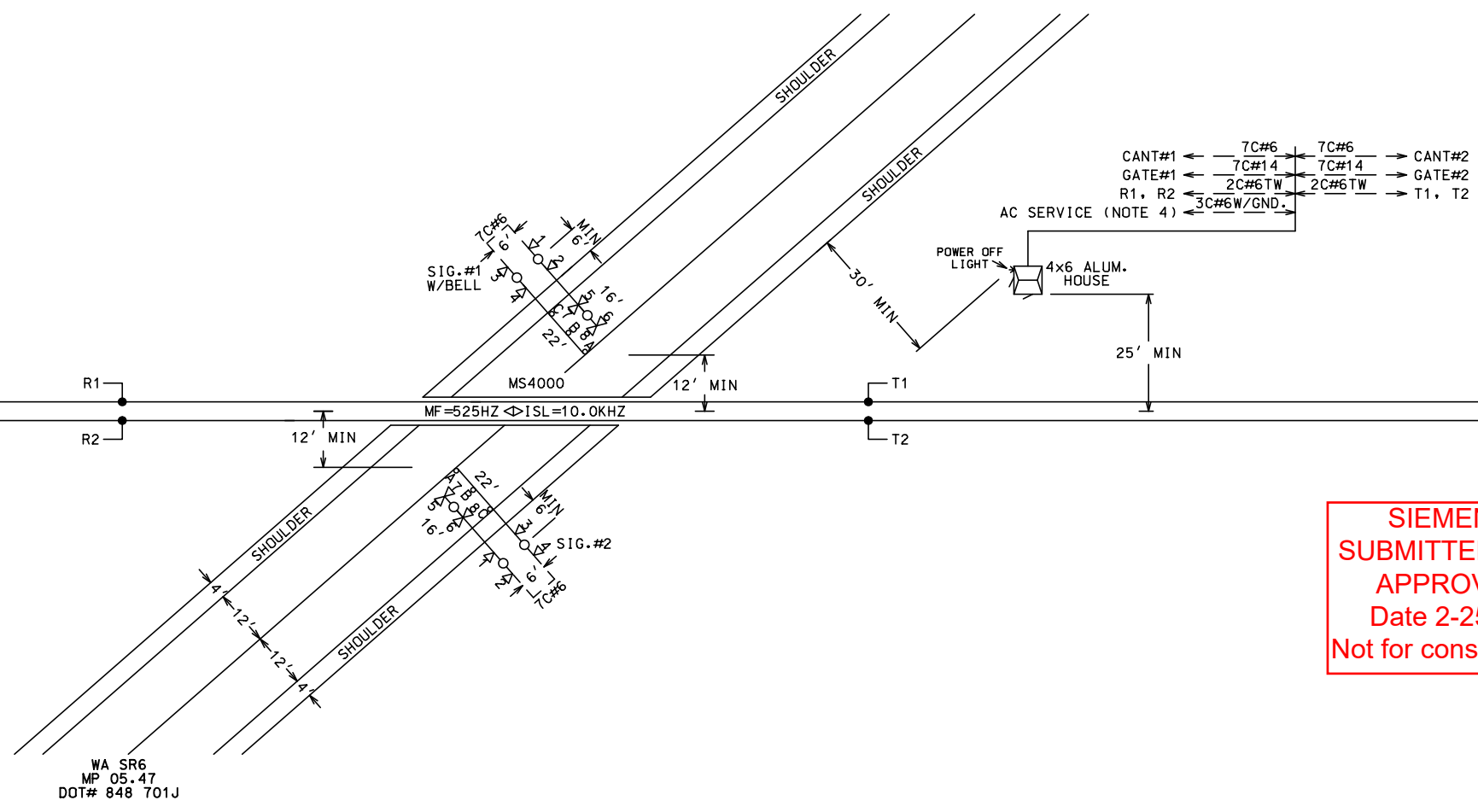


925' APPROACH 42 SEC. WARNING @ 15 M.P.H. (INCLUDES GCP RESPONSE TIME 5 SEC & 7 SEC CLEARANCE) | 170' ISLAND | 925' APPROACH 42 SEC. WARNING @ 15 M.P.H. (INCLUDES GCP RESPONSE TIME 5 SEC & 7 SEC CLEARANCE)



FIELD TO MOVE  
DHWS TO 925'

FIELD TO MOVE  
DHWS TO 925'



**SIEMENS  
SUBMITTED FOR  
APPROVAL  
Date 2-25-22  
Not for construction**

**LEGEND**  
 (A) = HEAVY DUTY ARRESTER NO. NYK:4000445850000  
 (B) = HEAVY DUTY EQUALIZER NO. NYK:4000447000000  
 (X) = TWISTED WIRE - 2 TURNS PER FOOT.

**NOTES:**  
 1) ALL DIMENSIONS ARE APPROXIMATE AND MAY VARY DUE TO ACTUAL FIELD CONDITIONS.  
 2) SIGNALS AND 4' X 6' HOUSE TO BE INSTALLED PER MUTCD, STATE AND OR RAILROAD STANDARDS.  
 3) ISLAND WIDTH MUST NOT EXCEED 30% OF LONGEST GCP APPROACH.  
 4) 120/240VAC FEED MUST NOT EXCEED 60AMP UNLESS PROPER CABLE SIZE USED.

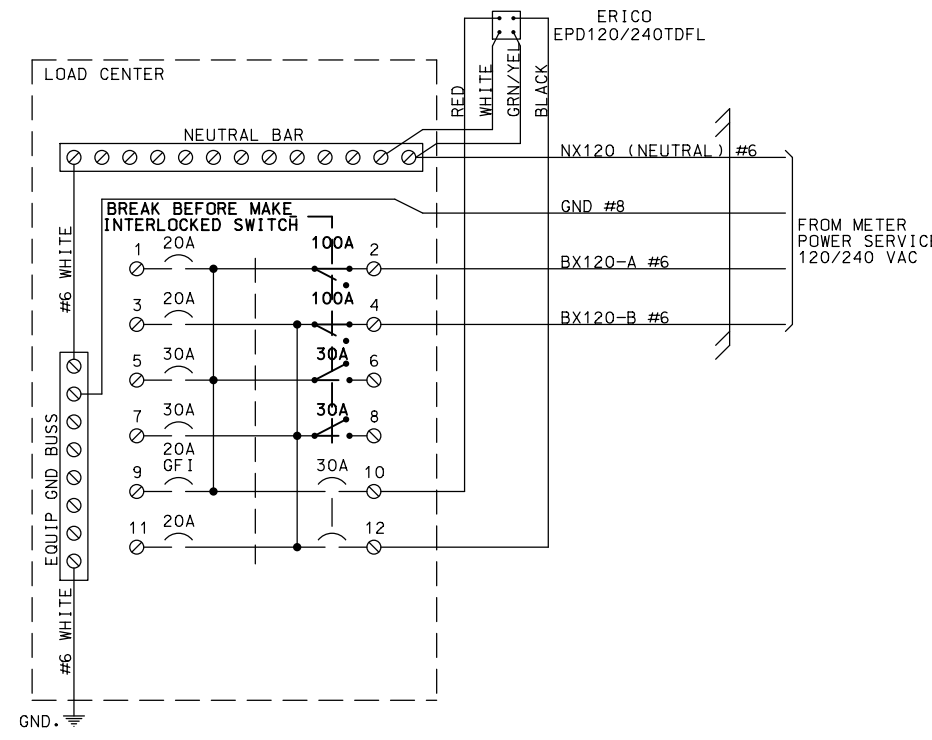
LOCATION PLAN  
NOT TO SCALE

DOT # 848-701J

NO.	DATE	DESCRIPTION	APP. BY

REVISIONS		SIEMENS RAIL AUTOMATION 2400 NELSON MILLER PARKWAY LOUISVILLE, KENTUCKY 40223	
THE OPERATION OF THE ORGANIZATION REPRESENTED HEREON CANNOT BE CHECKED FINALLY UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM OR AN EFFECTIVE PORTION THEREOF. SUCH SYSTEM OR PORTION MUST BE GIVEN COMPLETE CIRCUIT AND OPERATIONAL TEST BEFORE BEING PLACED IN REGULAR OPERATION.		<b>TITLE:</b> HIGHWAY GRADE CROSSING SIGNAL SYSTEM WA SR6 ADNA, WA	
<b>CUSTOMER:</b> CHEHALIS & CENTRALIA RAILROAD ASSOCIATION INSTALLER: MIDVALE INC.		<b>DES. :</b> KDF <b>CKD. :</b> STL <b>DRN. :</b> SMI	<b>DATE:</b> 02/18/22 <b>ISSUE DATE:</b> <b>CAD ID. :</b> 3009385170.01
<b>PLOT DATE:</b> 25-FEB-2022 <b>PLOT TIME:</b> 12:37		<b>PROJ. NO.:</b> 3009385170 <b>EST. NO.:</b> 5824-0 <b>SHEET</b> 1 OF 9	

NO.	DATE	BY	DESCRIPTION	APP.	BY



NOTE: ALL AC WIRING IS TO BE IN METALLIC CONDUIT WITH NO EXPOSED TERMINALS. ALL AC 120V AND 240V EQUIPMENT IS TO BE PROPERLY GROUNDED.

SQUARE "D" PART NUMBERS:

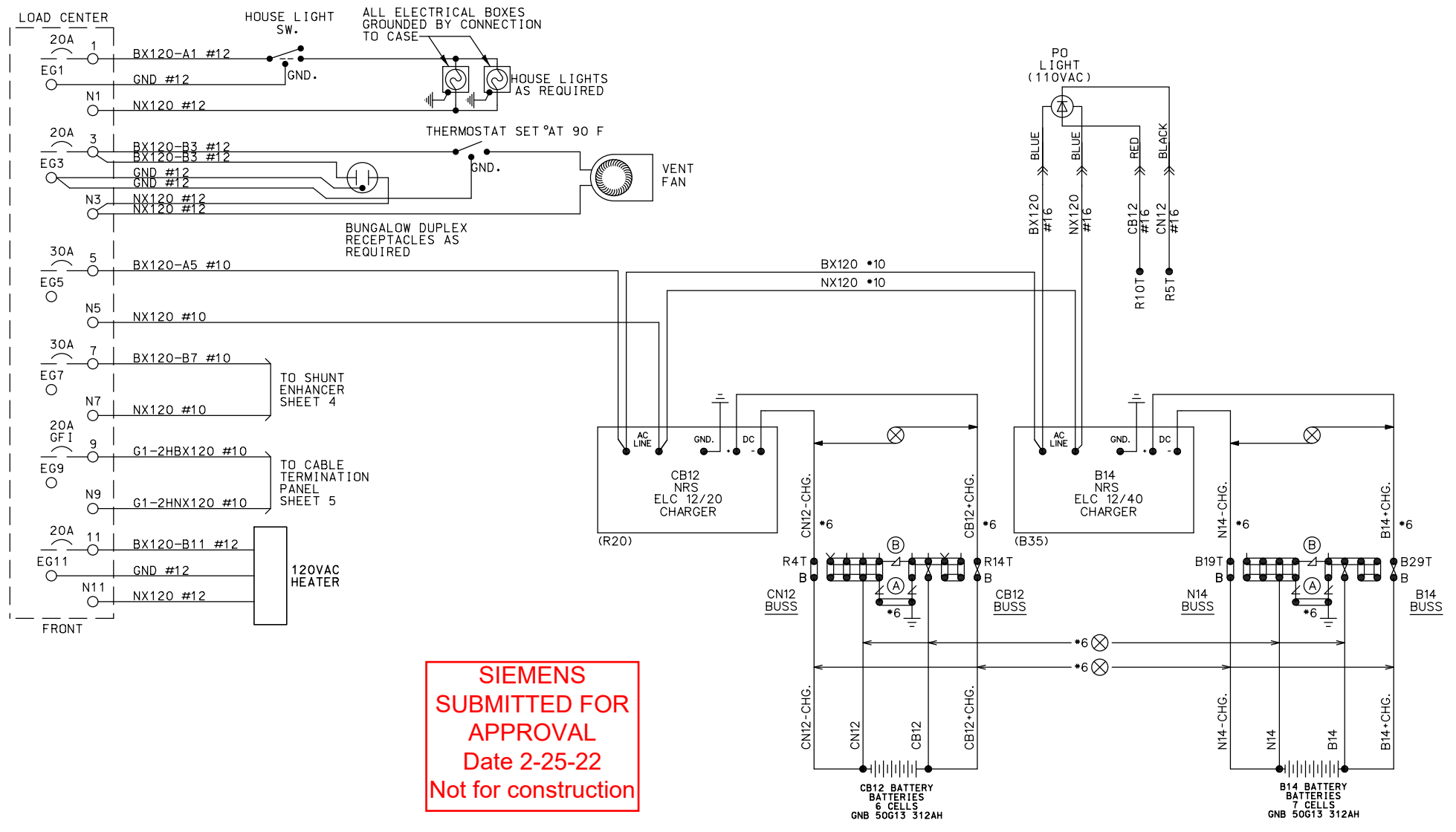
LOAD CENTER — 00112L125G

20A 1P CIR BKR — 00120

30A 1P CIR BKR — 00130

30A 2P CIR BKR — 00230

100A 2P CIR BKR — 002100



SIEMENS  
SUBMITTED FOR  
APPROVAL  
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Not for construction

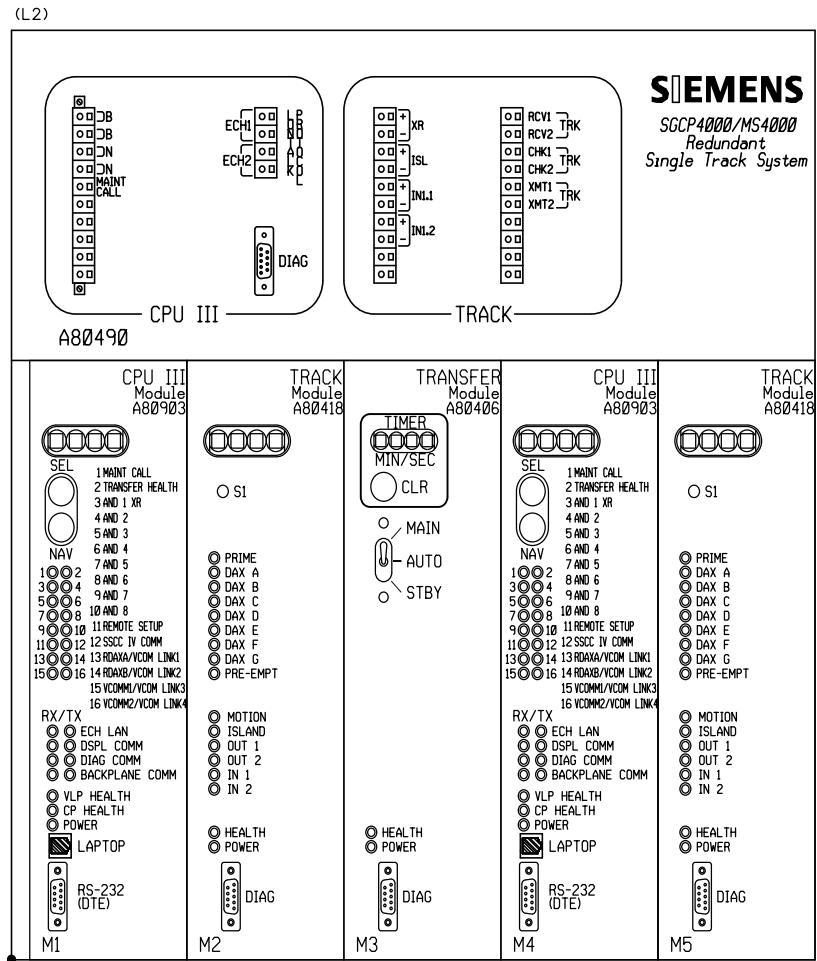
NOTES:

⊕ = DENOTES TWISTED PAIR

AC & DC POWER DISTRIBUTION

REVISIONS		<b>SIEMENS</b> RAIL AUTOMATION 2400 NELSON MILLER PARKWAY LOUISVILLE, KENTUCKY 40223	
		TITLE: HIGHWAY GRADE CROSSING SIGNAL SYSTEM WA SR6 ADNA, WA	
		CUSTOMER: CHEHALIS & CENTRALIA RAILROAD ASSOCIATION INSTALLER: MIDVALE INC.	
DES.: KDF	DATE: 02/18/22	PROJ. NO.: 3009385170	
CKD.: STL	ISSUE DATE:	EST. NO.: 5824-0	
DRN.: SMI	CAD ID.: 3009385170.02	SHEET 2 OF 9	
PLOT DATE: 25-FEB-2022		PLOT TIME: 12:37	

THE OPERATION OF THE ORGANIZATION REPRESENTED HEREON CANNOT BE CHECKED FINALLY UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM OR AN EFFECTIVE PORTION THEREOF. SUCH SYSTEM OR PORTION MUST BE GIVEN COMPLETE CIRCUIT AND OPERATIONAL TEST BEFORE BEING PLACED IN REGULAR OPERATION.



**SIEMENS**  
SSCP4000/MS4000  
Redundant  
Single Track System

4000 MS APPLICATION DESIGN CARD

PROGRAM	_____ 525 _____ HZ
AFRD..... (APPROACH FREQUENCY)	_____ HZ
DIRN..... (APPROACH DIRECTION)	UNI <input type="checkbox"/> BI <input checked="" type="checkbox"/> BIWD <input type="checkbox"/>
TLVL..... (TRANSMIT LEVEL)	MED <input checked="" type="checkbox"/> HI <input type="checkbox"/>
APKU..... (APPROACH PICKUP DELAY)	_____ 15 _____ SEC.
UAX..... (UPSTREAM ADJACENT CROSSING)	_____ 5 _____ SEC.
ISL..... (ISLAND FREQUENCY)	_____ 10.0 _____ KHZ
IPKU..... (ISLAND PICKUP DELAY)	_____ 0 _____ SEC.
INI..... (INPUT 1)	_____ UAX _____
IN2..... (INPUT 2)	_____ 00S _____
<b>ADVANCED MENU</b>	
PSTR..... (POSITIVE START)	_____ OFF _____
PTIM..... (POSITIVE START TIMER)	_____ N/A _____ MIN.
SHNT..... (SUDDEN SHUNT)	_____ OFF _____
LWEZ..... (LOW EZ DETECT)	_____ OFF _____
LWEX..... (LOW EX ADJUSTMENT)	_____ 39 _____
COMP..... (COMPENSATION LEVEL)	_____ 1300 _____
PRED..... (PREDICTOR)	_____ YES _____
WTIM..... (WARNING TIME)	_____ 42 _____ SEC.

FACTORY DEFAULT (IF FIELD ADJUSTMENTS ARE NEEDED REFER TO MS4000 MANUAL, (SIG 00-11-02).

**SIEMENS**  
**SUBMITTED FOR**  
**APPROVAL**  
 Date 2-25-22  
 Not for construction

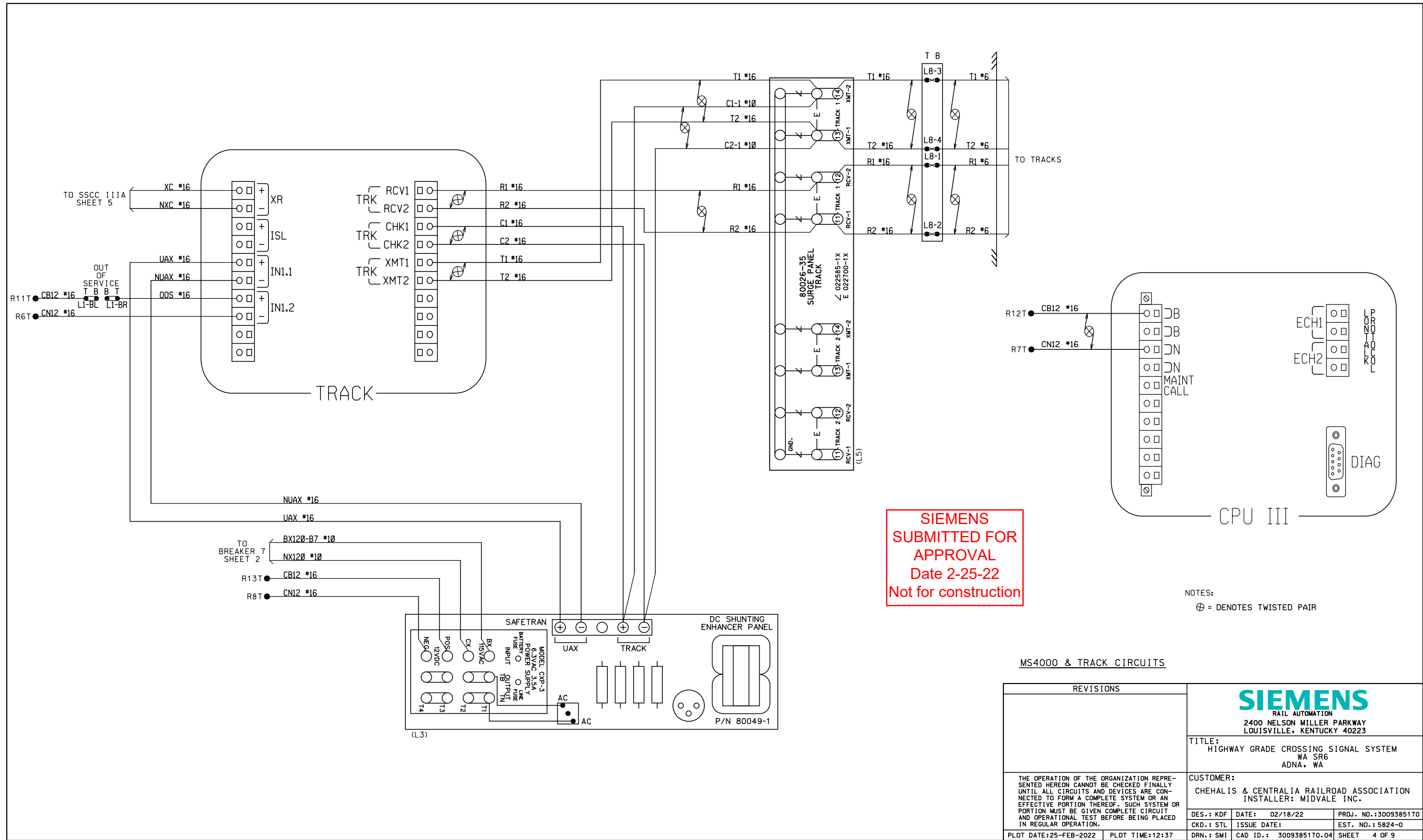
**ATTENTION!**  
TO COMMUNICATE WITH THE MS4000  
CONNECT STRAIGHT THROUGH SERIAL CABLE  
TO DIAG PORT ON CPUIII.

MS4000 LAYOUT & PROGRAM

NO.	DATE	BY	DESCRIPTION	APP. BY

REVISIONS		<b>SIEMENS</b> RAIL AUTOMATION 2400 NELSON MILLER PARKWAY LOUISVILLE, KENTUCKY 40223	
THE OPERATION OF THE ORGANIZATION REPRESENTED HEREON CANNOT BE CHECKED FINALLY UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM OR AN EFFECTIVE PORTION THEREOF. SUCH SYSTEM OR PORTION MUST BE GIVEN COMPLETE CIRCUIT AND OPERATIONAL TEST BEFORE BEING PLACED IN REGULAR OPERATION.		<b>TITLE:</b> HIGHWAY GRADE CROSSING SIGNAL SYSTEM WA SR6 ADNA, WA	
		<b>CUSTOMER:</b> CHEHALIS & CENTRALIA RAILROAD ASSOCIATION INSTALLER: MIDVALE INC.	
DES.: KDF	DATE: 02/18/22	PROJ. NO.: 3009385170	EST. NO.: 5824-0
CKD.: STL	ISSUE DATE:	DRN.: SMI	CAD ID.: 3009385170.03
PLOT DATE: 25-FEB-2022		PLOT TIME: 12:37	
		SHEET 3 OF 9	

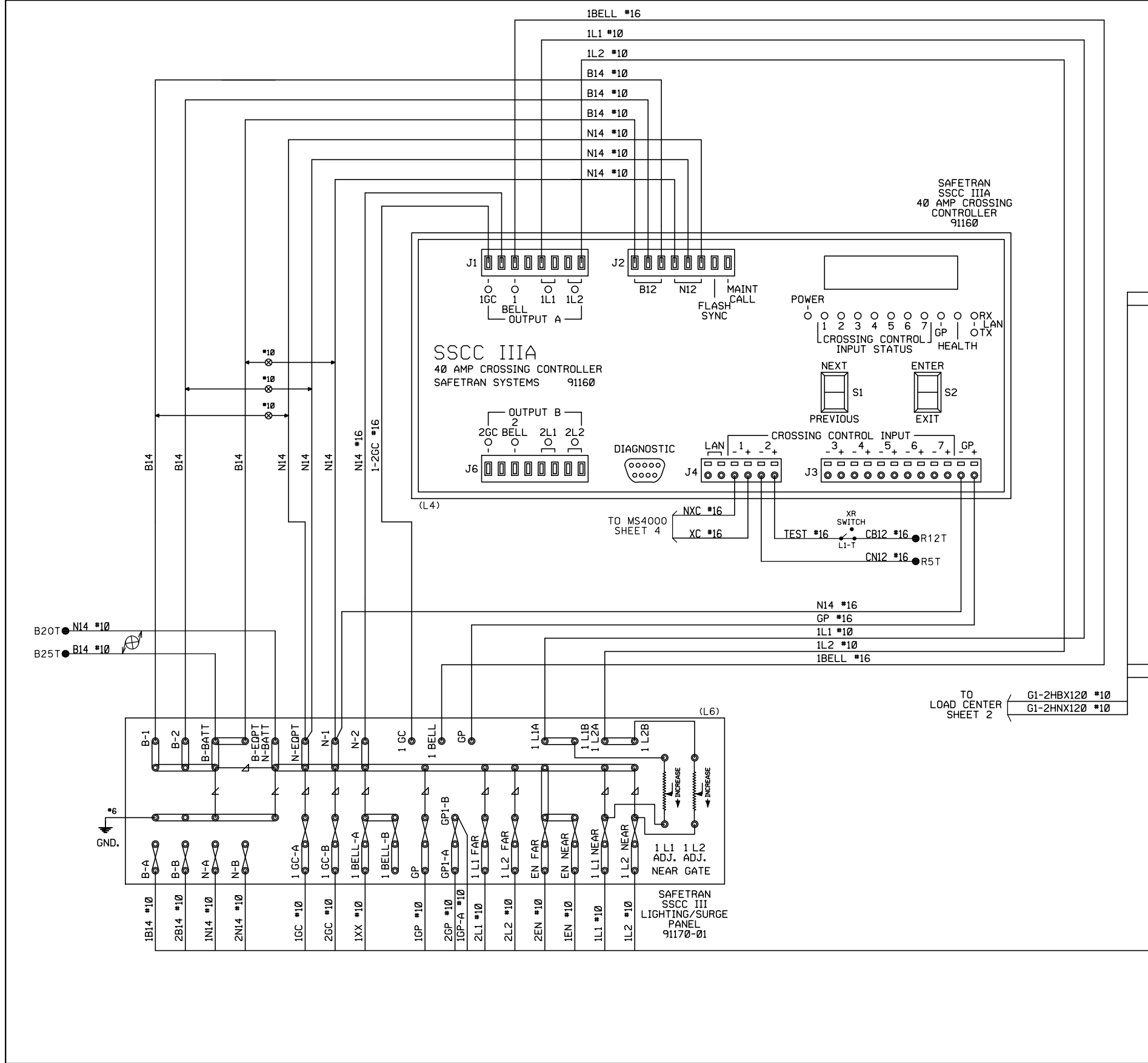
NO.	DATE	BY	DESCRIPTION	APP.	BY



MS4000 & TRACK CIRCUITS

REVISIONS		
2400 NELSON MILLER PARKWAY LOUISVILLE, KENTUCKY 40223		
TITLE: HIGHWAY GRADE CROSSING SIGNAL SYSTEM WA SR6 ADNA, WA		
CUSTOMER: CHEHALIS & CENTRALIA RAILROAD ASSOCIATION INSTALLER: MIDVALE INC.		
DES.: KDF	DATE: 02/18/22	PROJ. NO.: 3009385170
CKD.: STL	ISSUE DATE:	EST. NO.: 5824-0
PLOT DATE: 25-FEB-2022	PLOT TIME: 12:37	DRN.: SMI CAD ID.: 3009385170.04 SHEET 4 OF 9

NO.	DATE	BY	DESCRIPTION	APP. BY



**PROGRAM SETTINGS**

MCF NAME	BASIC.MCF
FLASH RATE	50 FPM *
1GC DELAY	6 SEC
2GC DELAY	6 SEC
GATE RISING BELL	ON *
MIN ACTIVATE TIMER	0 SEC *
ENABLED INPUTS	1 THRU 2 *
ENABLED OUTPUTS	A AND B *
TIME	HH:MM:SS
DATE	YYYY MMM DD
DAYLIGHT SAVING	DISABLED *
PASSWORD	DISABLED

**CONFIGURATION SETTINGS**

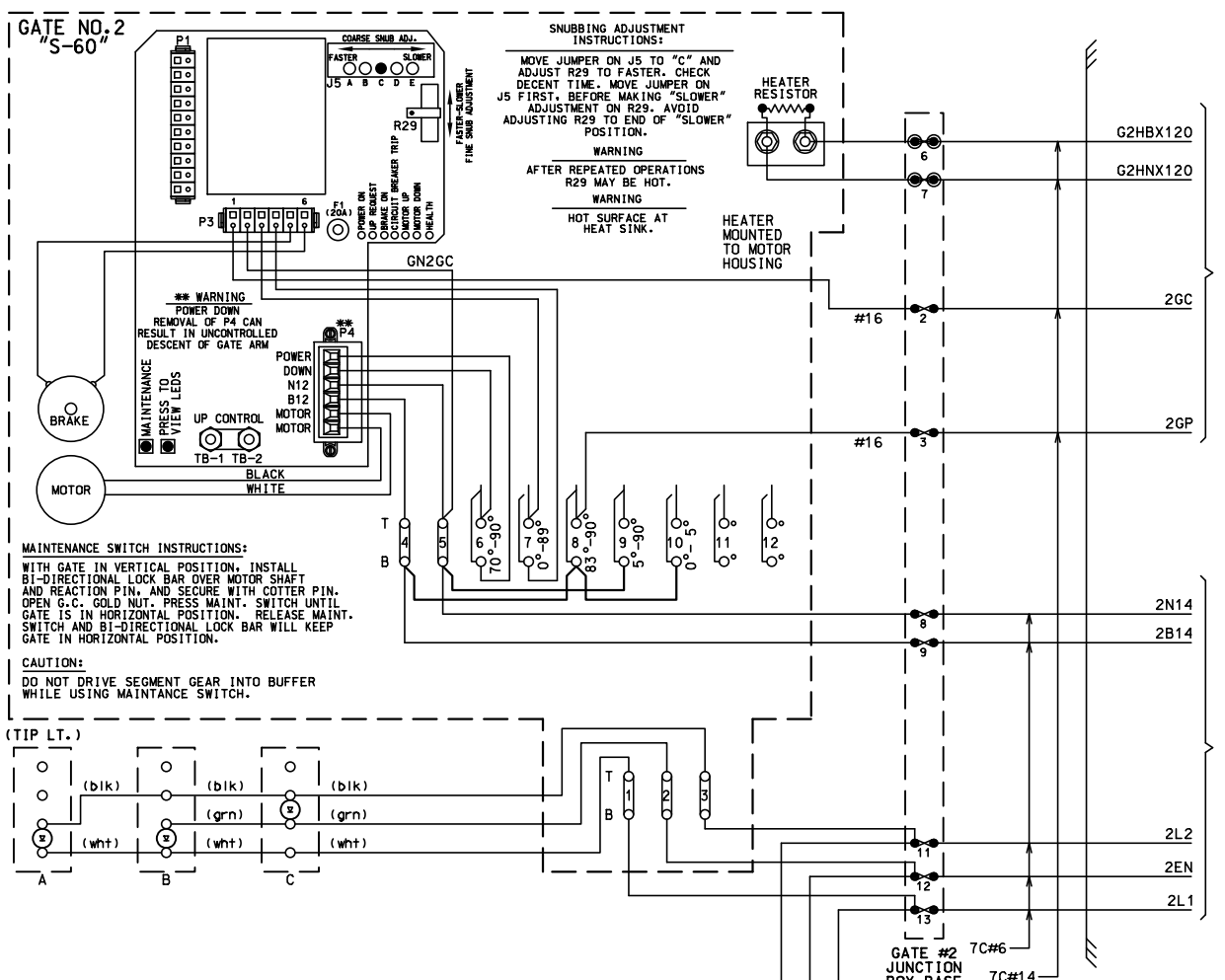
INPUT 1 LOS	0 SEC *
INPUT 2 LOS	0 SEC *
INPUT 3 LOS	DISABLED *
INPUT 4 LOS	DISABLED *
INPUT 5 LOS	DISABLED *
INPUT 6 LOS	DISABLED *
INPUT 7 LOS	DISABLED *
ATCS OUTPUT	700000000000 *
LOW BATTERY	12.0 VOLTS *
AUX I/O	NON-VITAL OUT
DETECT LAMP NEUT	NO *

- PROGRAM NOTES:**
- PROGRAM VERSION 9V610-A001F OR LATER
  - \* = DEFAULT PROGRAM VALUE
  - \*\* = ADJUSTMENTS TO BE MADE ACCORDING TO SSCCIII A MANUAL

**SIEMENS  
SUBMITTED FOR  
APPROVAL  
Date 2-25-22  
Not for construction**

**NOTES:**  
⊕ = DENOTES TWISTED PAIR

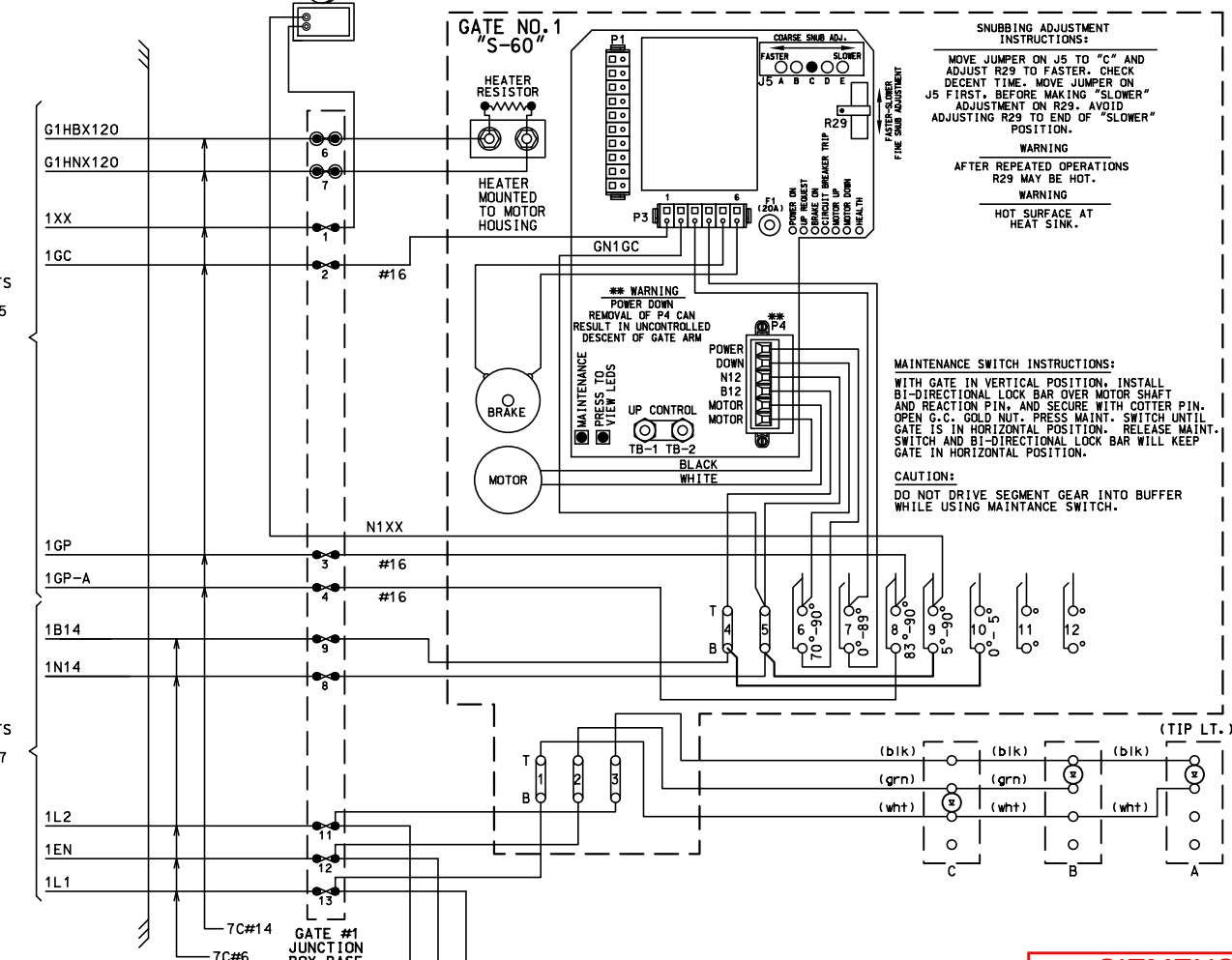
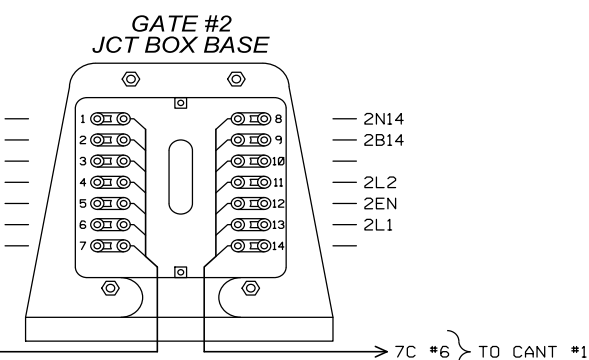
REVISIONS		<b>SIEMENS</b> RAIL AUTOMATION 2400 NELSON MILLER PARKWAY LOUISVILLE, KENTUCKY 40223	
<small>THE OPERATION OF THE ORGANIZATION REPRESENTED HEREON CANNOT BE CHECKED FINALLY UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM OR AN EFFECTIVE PORTION THEREOF. SUCH SYSTEM OR PORTION MUST BE GIVEN COMPLETE CIRCUIT AND OPERATIONAL TEST BEFORE BEING PLACED IN REGULAR OPERATION.</small>		<b>TITLE:</b> HIGHWAY GRADE CROSSING SIGNAL SYSTEM WA SR6 ADNA, WA	
<small>PLOT DATE: 25-FEB-2022    PLOT TIME: 12:37</small>		<b>CUSTOMER:</b> CHEHALIS & CENTRALIA RAILROAD ASSOCIATION INSTALLER: MIDVALE INC.	
DES.: KDF	DATE: 02/18/22	PROJ. NO.: 3009385170	EST. NO.: 5824-0
CKD.: STL	ISSUE DATE:	DRN.: SMJ	CAD ID.: 3009385170.05
SHEET 5 OF 9			



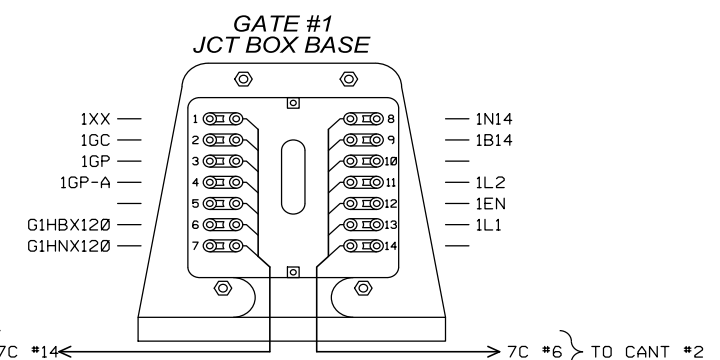
**NOTES:**

**MAINTENANCE SWITCH INSTRUCTIONS:**  
 WITH GATE IN VERTICAL POSITION, INSTALL BI-DIRECTIONAL LOCK BAR OVER MOTOR SHAFT AND REACTION PIN, AND SECURE WITH COTTER PIN. OPEN G.C. GOLD NUT. PRESS MAINT. SWITCH UNTIL GATE IS IN HORIZONTAL POSITION. RELEASE MAINT. SWITCH AND BI-DIRECTIONAL LOCK BAR WILL KEEP GATE IN HORIZONTAL POSITION.

**CAUTION:**  
 DO NOT DRIVE SEGMENT GEAR INTO BUFFER WHILE USING MAINTENANCE SWITCH.



**NOTE:**  
 ALL WIRING FROM MASTS JUNCTION BOX BASES TO GATE MECHANISMS, BELL, AND FLASHING LIGHT UNITS TO BE #10 AWG FLEX, UNLESS OTHERWISE NOTED.



**S60 GATES #1 & #2**

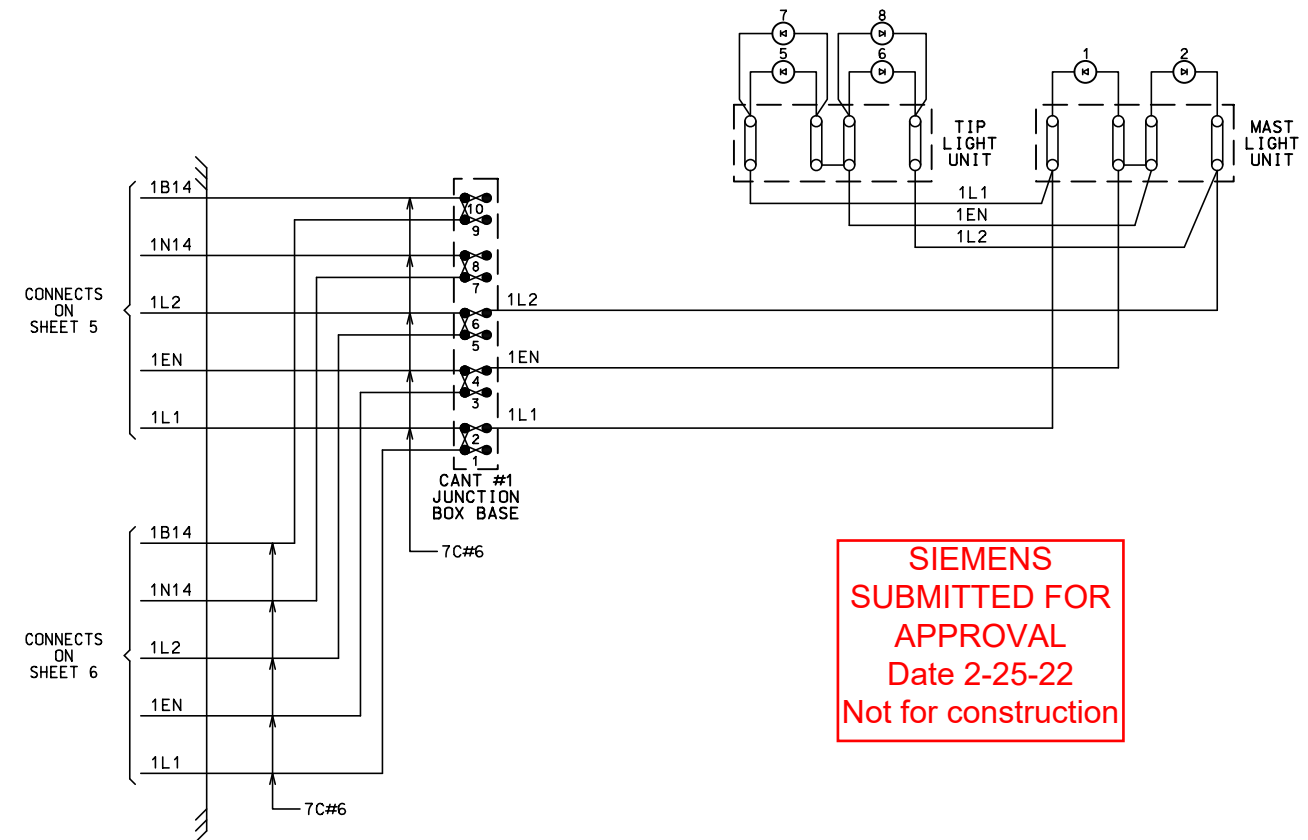
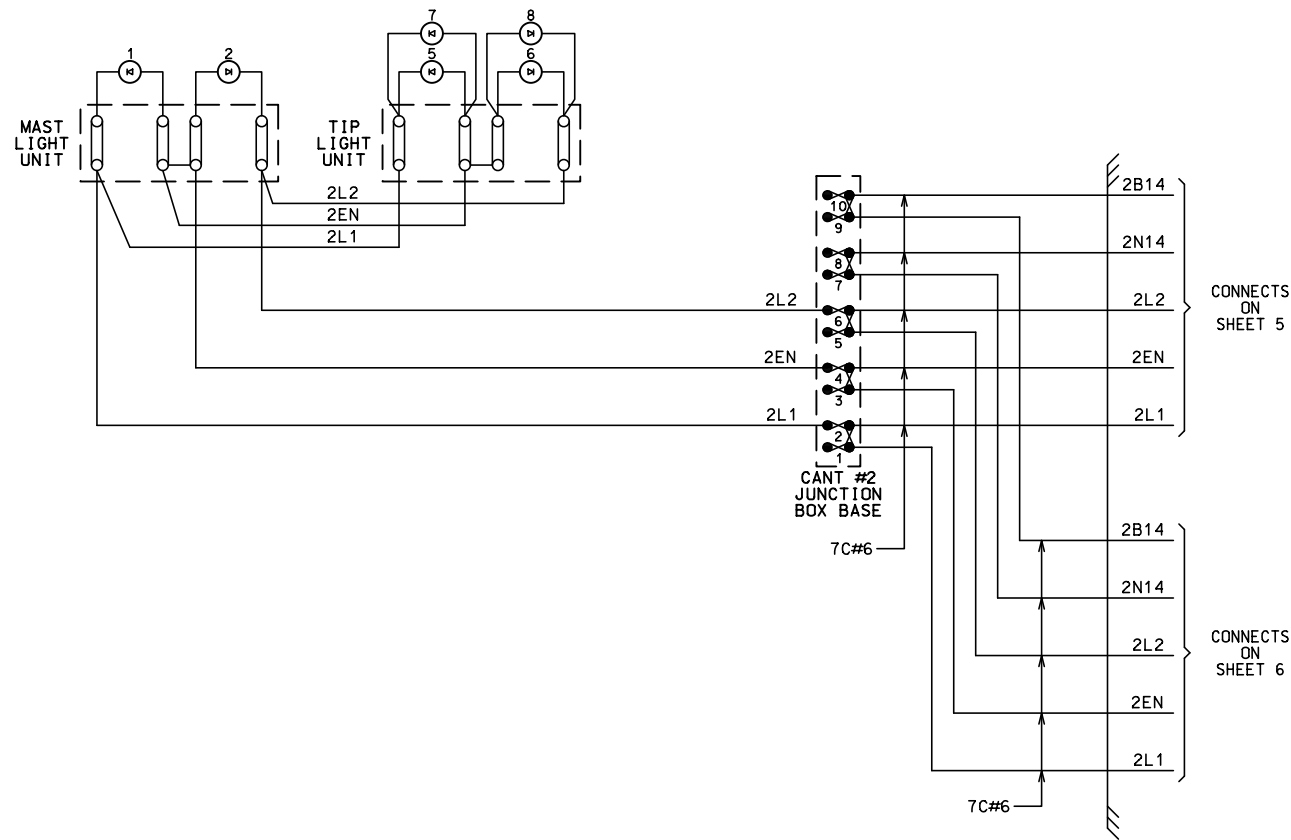
REVISIONS		SIEMENS RAIL AUTOMATION 2400 NELSON MILLER PARKWAY LOUISVILLE, KENTUCKY 40223	
THE OPERATION OF THE ORGANIZATION REPRESENTED HEREON CANNOT BE CHECKED FINALLY UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM OR AN EFFECTIVE PORTION THEREOF. SUCH SYSTEM OR PORTION MUST BE GIVEN COMPLETE CIRCUIT AND OPERATIONAL TEST BEFORE BEING PLACED IN REGULAR OPERATION.		TITLE: HIGHWAY GRADE CROSSING SIGNAL SYSTEM WA SR6 ADNA, WA	
CUSTOMER: CHEHALIS & CENTRALIA RAILROAD ASSOCIATION INSTALLER: MIDVALE INC.		DES.: KDF	DATE: 02/18/22
CKD.: STL	ISSUE DATE:	PROJ. NO.: 3009385170	EST. NO.: 5824-0
DRN.: SMI	CAD ID.: 3009385170.06	SHEET 6 OF 9	
PLOT DATE: 25-FEB-2022		PLOT TIME: 12:37	

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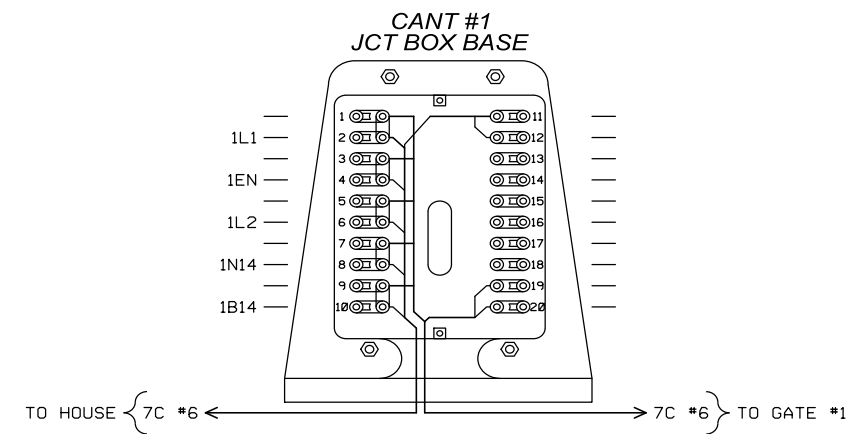
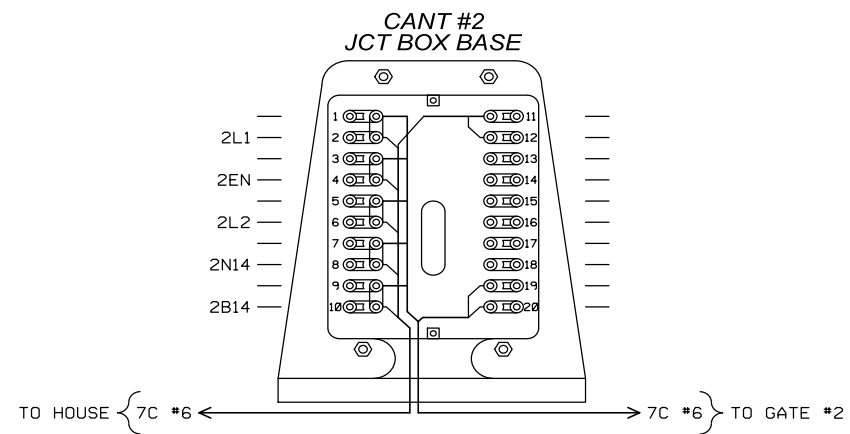
NO.	DATE	DESCRIPTION	APP. BY

NOTES:

- 1.) ALL WIRING FROM MASTS JUNCTION BOX BASES TO SIGNALS, AND FLASHING LIGHT UNITS TO BE #10 AWG FLEX, UNLESS OTHERWISE NOTED.



**SIEMENS**  
 SUBMITTED FOR  
 APPROVAL  
 Date 2-25-22  
 Not for construction

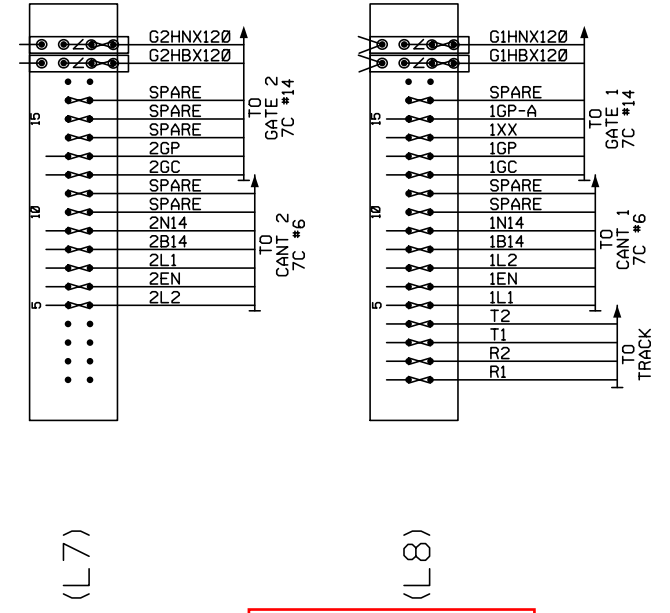
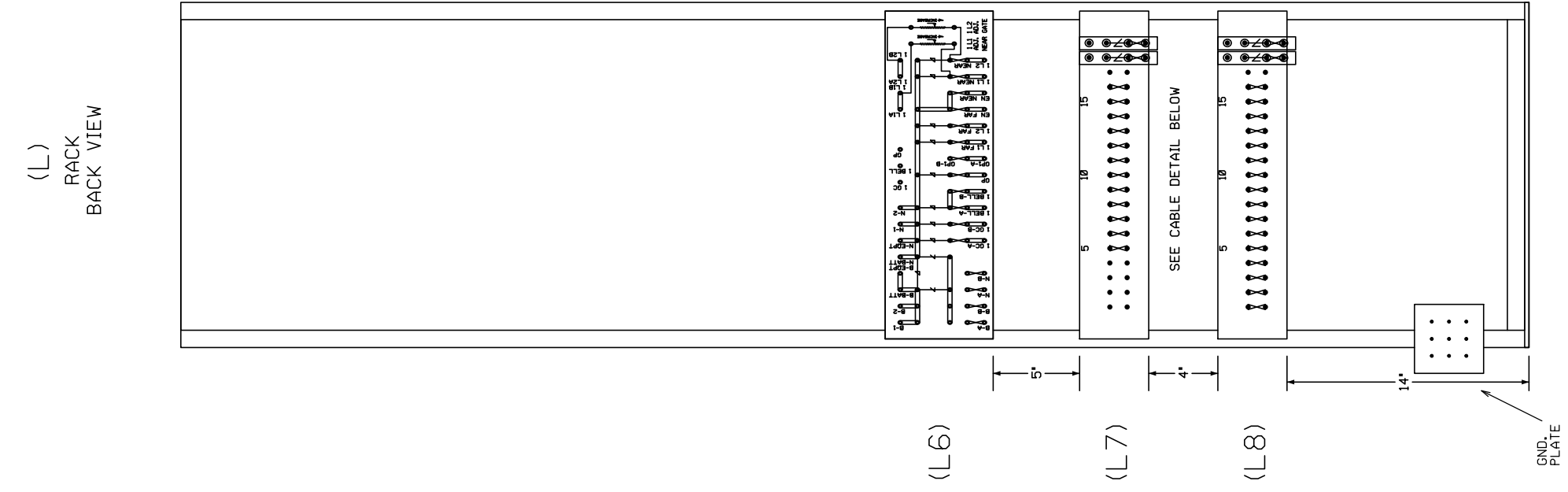
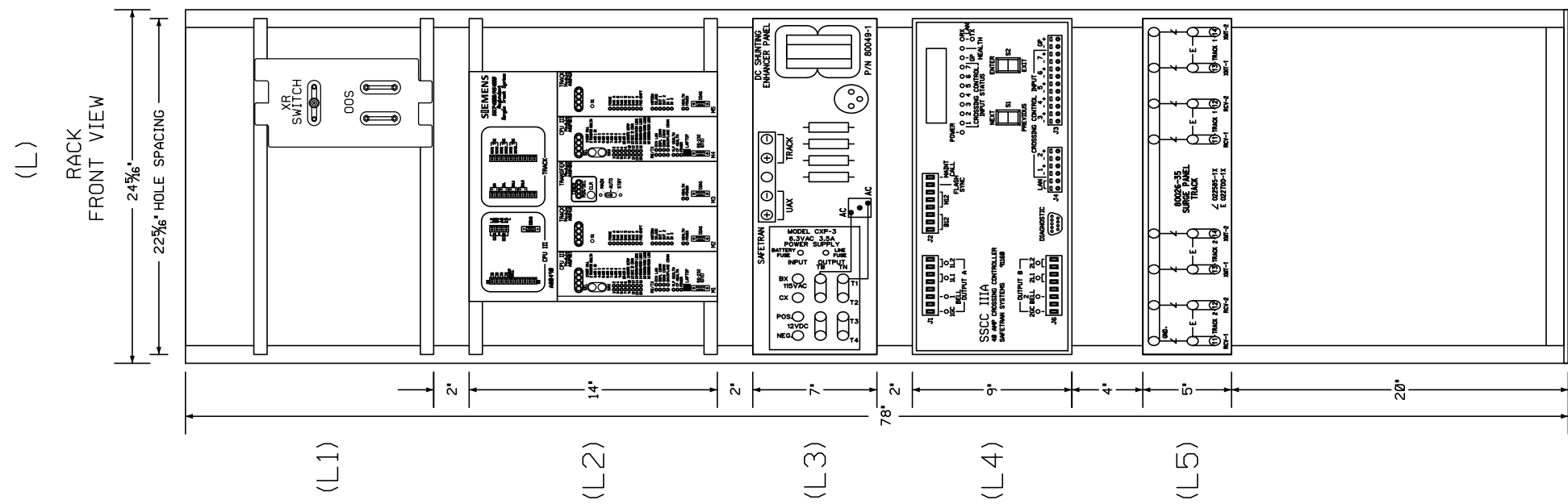


CANT #1 & #2

REVISIONS			
		2400 NELSON MILLER PARKWAY LOUISVILLE, KENTUCKY 40223	
<b>TITLE:</b> HIGHWAY GRADE CROSSING SIGNAL SYSTEM WA SR6 ADNA, WA			
<b>CUSTOMER:</b> CHEHALIS & CENTRALIA RAILROAD ASSOCIATION INSTALLER: MIDVALE INC.			
DES.: KDF	DATE: 02/18/22	PRJ. NO.: 3009385170	
CKD.: STL	ISSUE DATE:	EST. NO.: 5824-0	
PLOT DATE: 25-FEB-2022	PLOT TIME: 12:37	DRN.: SMI	CAD ID.: 3009385170.07
		SHEET 7 OF 9	

NO.	DATE	DESCRIPTION	BY	APP.	BY

NO.	DATE	BY	DESCRIPTION	APP. BY

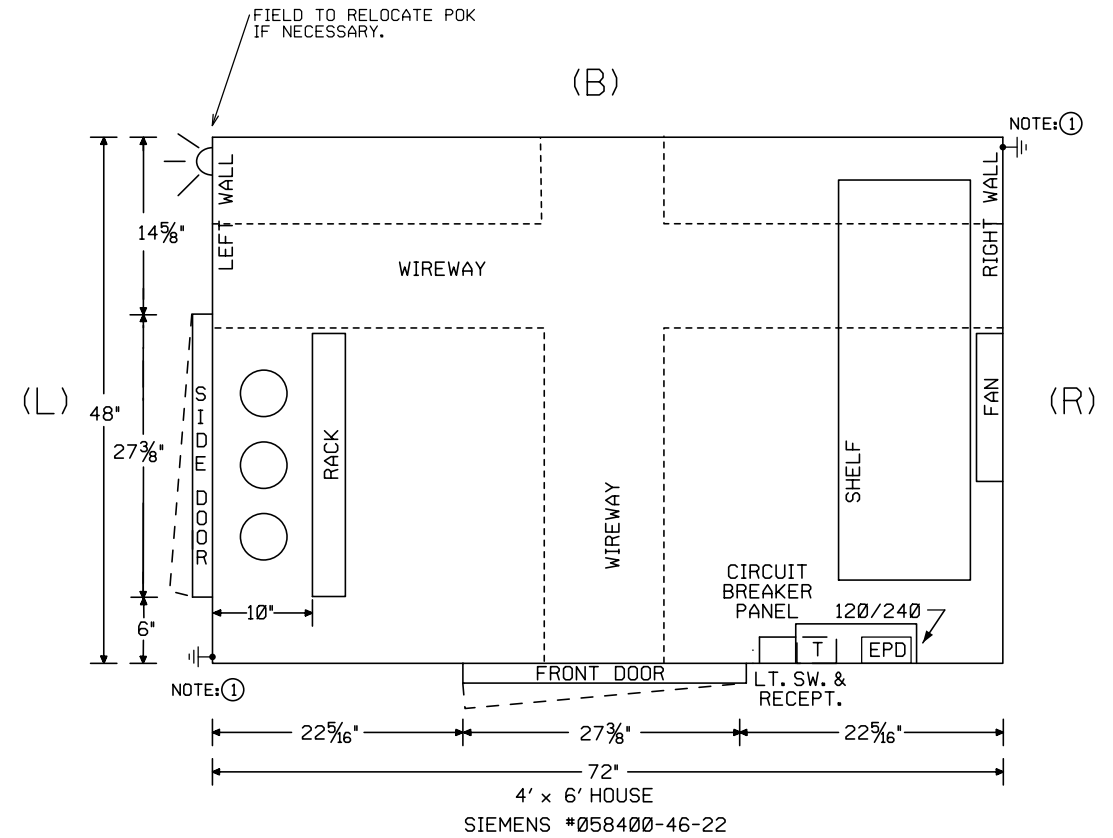
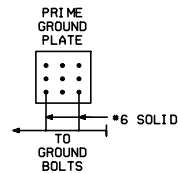
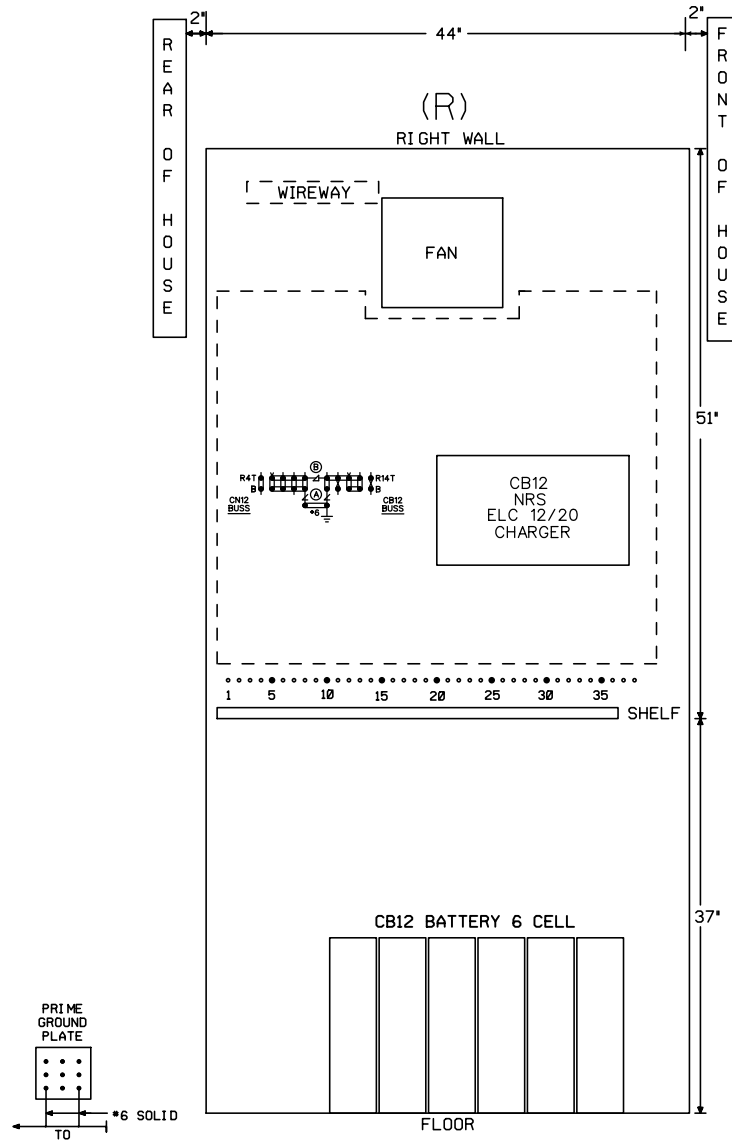
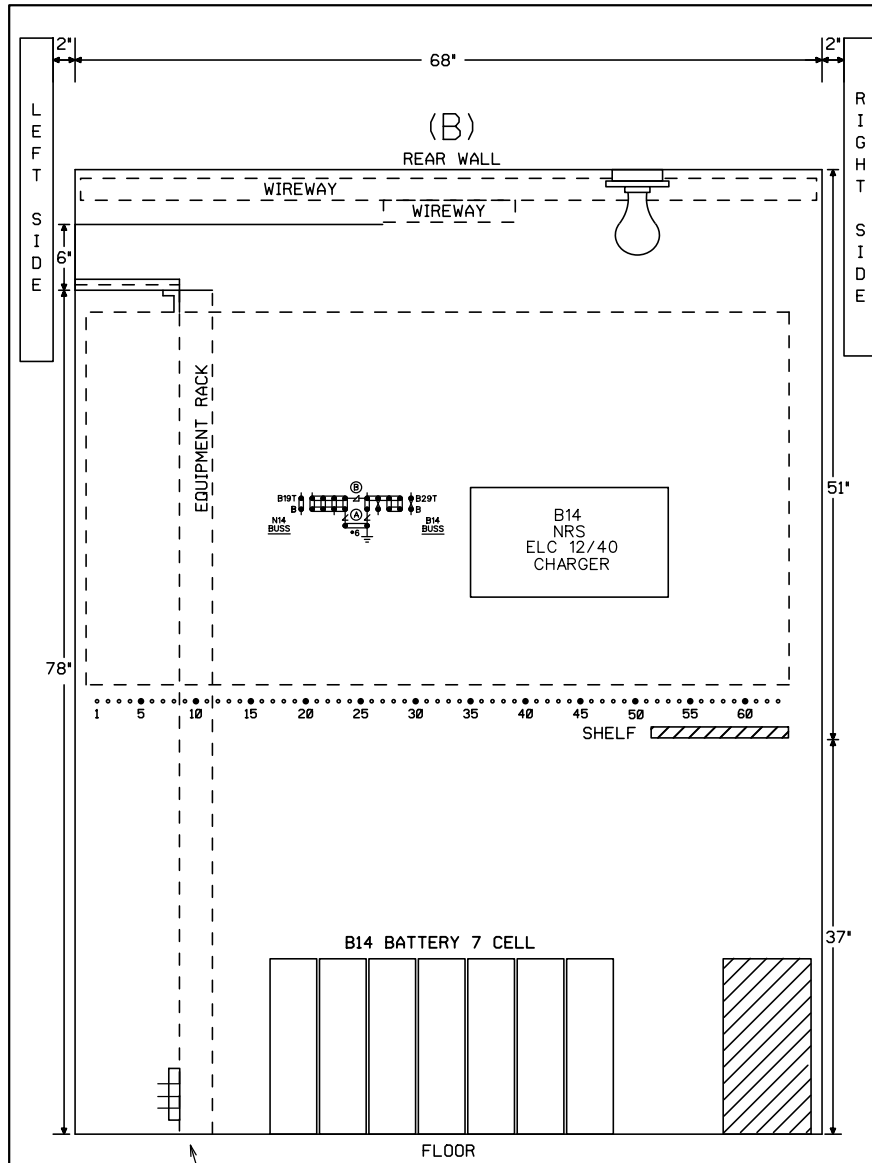


SIEMENS  
 SUBMITTED FOR  
 APPROVAL  
 Date 2-25-22  
 Not for construction

RACK DETAIL

REVISIONS		<b>SIEMENS</b> RAIL AUTOMATION 2400 NELSON MILLER PARKWAY LOUISVILLE, KENTUCKY 40223	
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		CUSTOMER: CHEHALIS & CENTRALIA RAILROAD ASSOCIATION INSTALLER: MIDVALE INC.	
DES.: KDF	DATE: 02/18/22	PROJ. NO.: 3009385170	
CKD.: STL	ISSUE DATE:	EST. NO.: 5824-0	
PLOT DATE: 25-FEB-2022	PLOT TIME: 12:37	DRN.: SM1	CAD ID.: 3009385170.08 SHEET 8 OF 9





**SIEMENS  
SUBMITTED FOR  
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Date 2-25-22  
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NO.	DATE	BY	DESCRIPTION	APP. BY

PRIME GROUND PLATE (SEE DETAIL)

① TWO ERICO GROUND PIGTAILS WELDED TO FLOOR (2 PLACES).

HOUSE LAYOUT  
NOT TO SCALE

REVISIONS			
2400 NELSON MILLER PARKWAY LOUISVILLE, KENTUCKY 40223			
TITLE: HIGHWAY GRADE CROSSING SIGNAL SYSTEM WA SR6 ADNA, WA			
CUSTOMER: CHEHALIS & CENTRALIA RAILROAD ASSOCIATION INSTALLER: MIDVALE INC.			
DES.: KDF	DATE: 02/18/22	PRJ. NO.: 3009385170	
CKD.: STL	ISSUE DATE:	EST. NO.: 5824-0	
DRN.: SMI	CAD ID.: 3009385170.09	SHEET 9 OF 9	
PLOT DATE: 25-FEB-2022		PLOT TIME: 12:37	

THE OPERATION OF THE ORGANIZATION REPRESENTED HEREON CANNOT BE CHECKED FINALLY UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM OR AN EFFECTIVE PORTION THEREOF. SUCH SYSTEM OR PORTION MUST BE GIVEN COMPLETE CIRCUIT AND OPERATIONAL TEST BEFORE BEING PLACED IN REGULAR OPERATION.