

SOUTH

NORTH

START 880'
 60 SECS. @ 10 MPH
 (INCLUDES 4 SEC. FOR PMD-4R)
 (INCLUDES 26 SEC. FOR ADV. PRE-EMPTION)

START 880'
 60 SECS. @ 10 MPH
 (INCLUDES 4 SEC. FOR PMD-4R)
 (INCLUDES 26 SEC. FOR ADV. PRE-EMPTION)

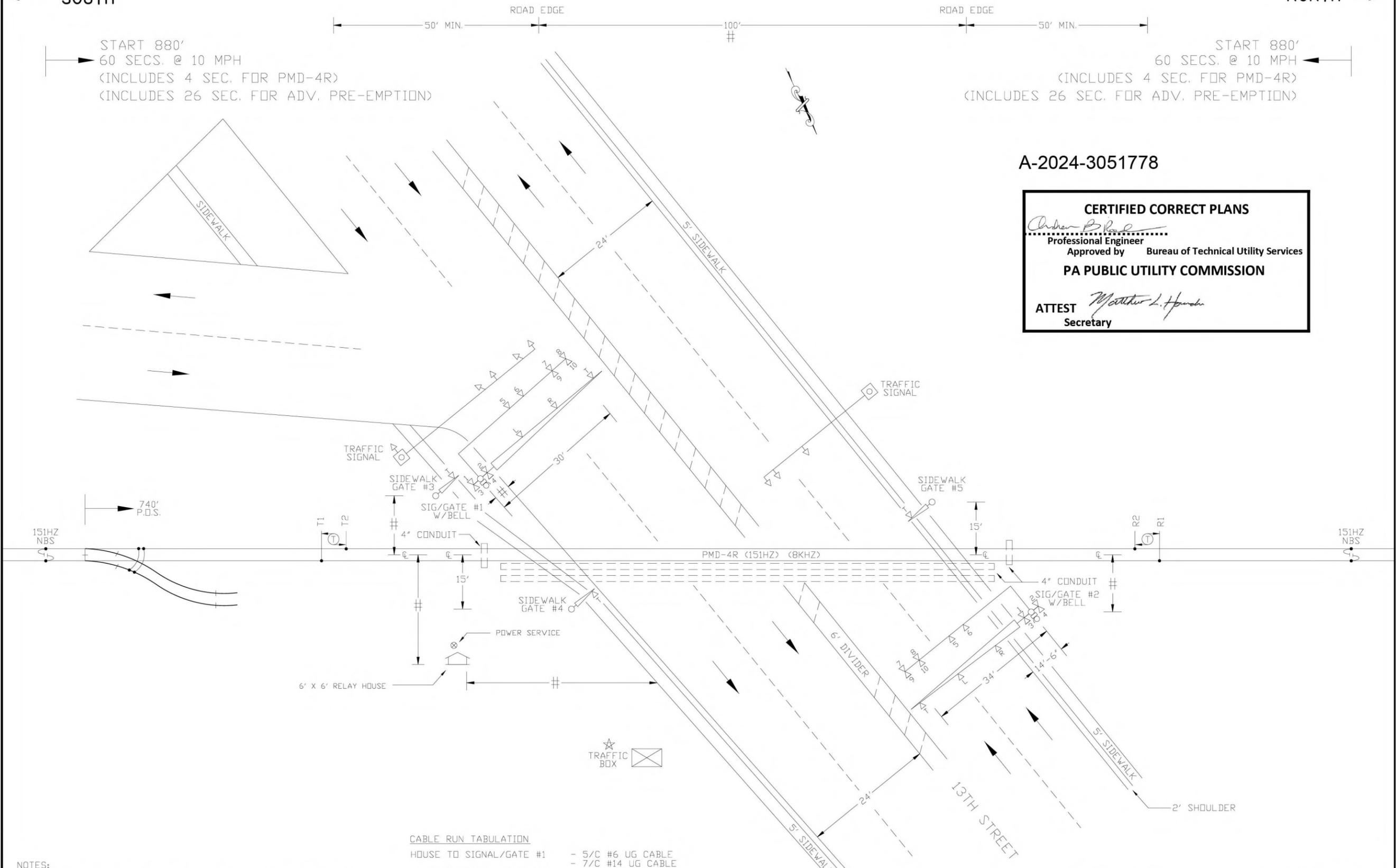
A-2024-3051778

CERTIFIED CORRECT PLANS

Arthur P. [Signature]
 Professional Engineer
 Approved by Bureau of Technical Utility Services

PA PUBLIC UTILITY COMMISSION

ATTEST *Matthew L. [Signature]*
 Secretary



NOTES:

- MATERIAL & INSTALLATION TO BE IN ACCORDANCE WITH MUTCD, STATE AND RAILROAD STANDARDS.
- ALL DIMENSIONS ARE APPROXIMATE AND MAY VARY DUE TO ACTUAL FIELD CONDITIONS.
- ALL FLASHING LIGHT SIGNALS TO BE LIGHT EMITTING DIODE (LED)
- ⊗ DENOTES TWIST PAIR.
- ISLAND CIRCUIT MUST BE A MINIMUM OF 120' IN LENGTH

- FIELD TO VERIFY ALL MEASUREMENTS
 ☆ - FIELD TO VERIFY LOCATION OF TRAFFIC BOX

CABLE RUN TABULATION

HOUSE TO SIGNAL/GATE #1	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO SIGNAL/GATE #2	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO SIDEWALK GATE #3	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO SIDEWALK GATE #4	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO SIDEWALK GATE #5	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO TRAFFIC BOX	- 5/C #14 UG CABLE
HOUSE TO AC SERVICE	- 3/C #6 UG CABLE
HOUSE TO T1 & T2	- 2/C #6 TWISTED PAIR
HOUSE TO R1 & R2	- 2/C #6 TWISTED PAIR

AS WIRED XX/XX/XX AS INSTALLED XX/XX/XX

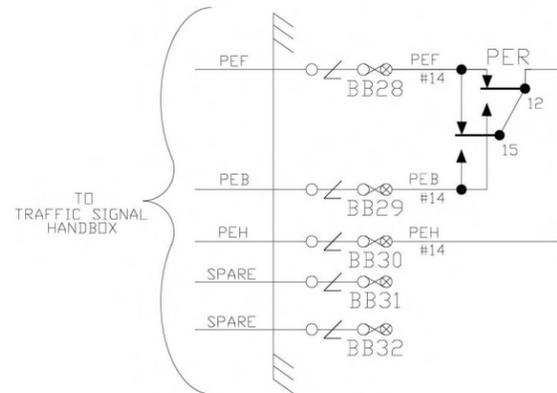
DIAMONDBACK SIGNAL

(410) 795-9601
 5965 EXCHANGE DRIVE
 SUITE "D"
 SYKESVILLE, MD
 21784

WESTERN NEW YORK & PENNSYLVANIA RAILROAD

SCALE: NONE	APPROVED BY:	DRAWN BY: NST
DATE: 11/01/2024		REVISED:
13TH ST. (SR 322) - DOT # 262 836S - MP OC 24.77		
FRANKLIN, VENANGO COUNTY, PA		
TRACK & CABLE PLAN		DRAWING NUMBER

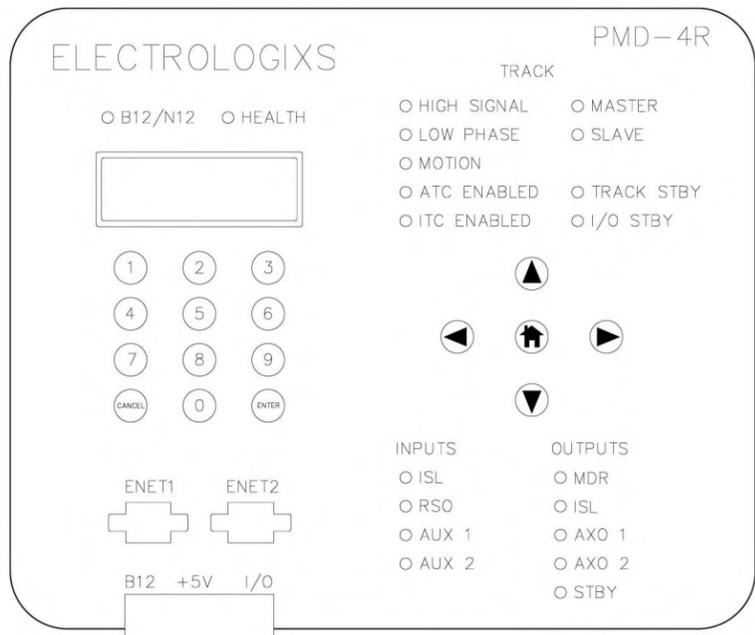
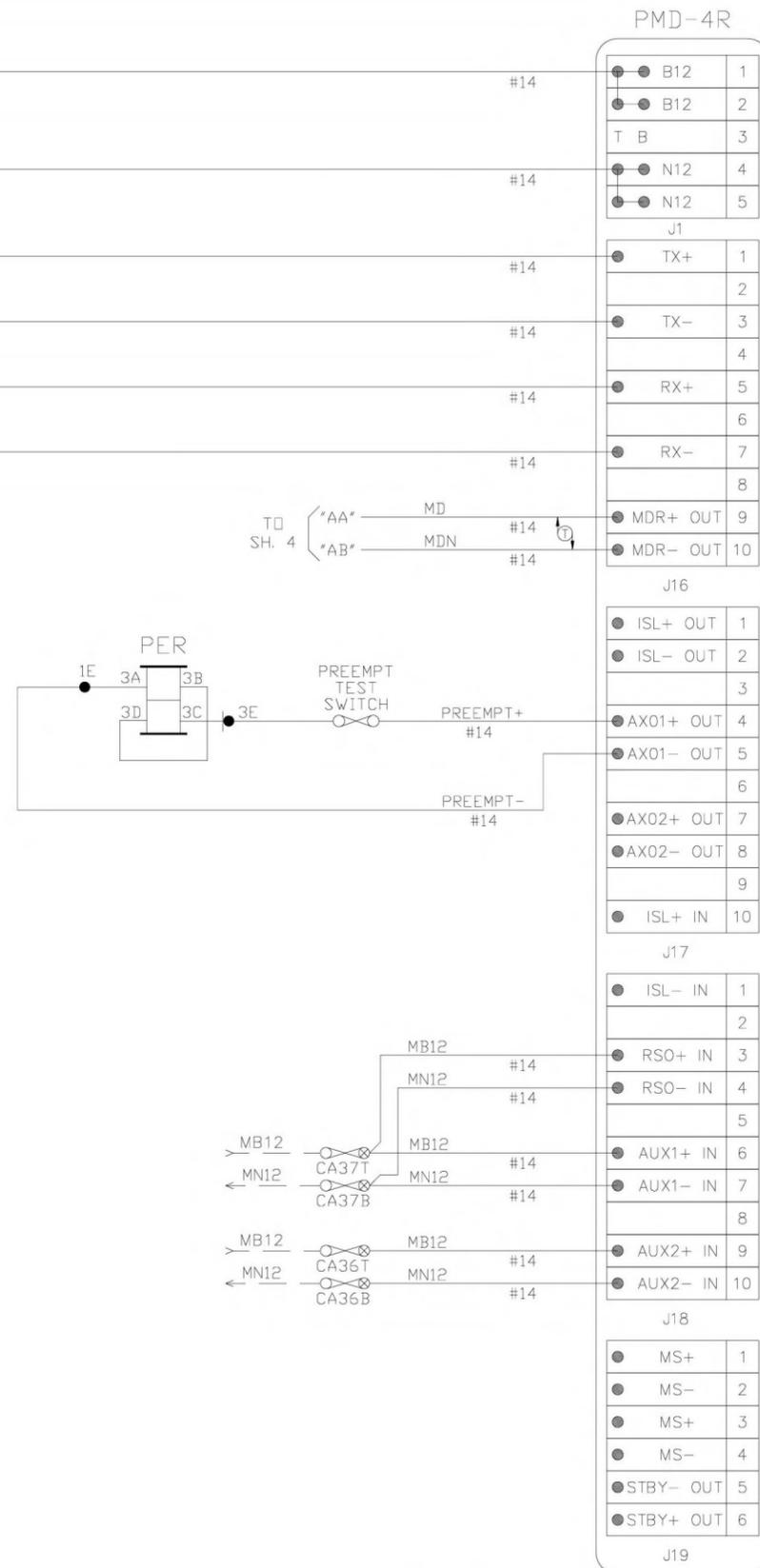
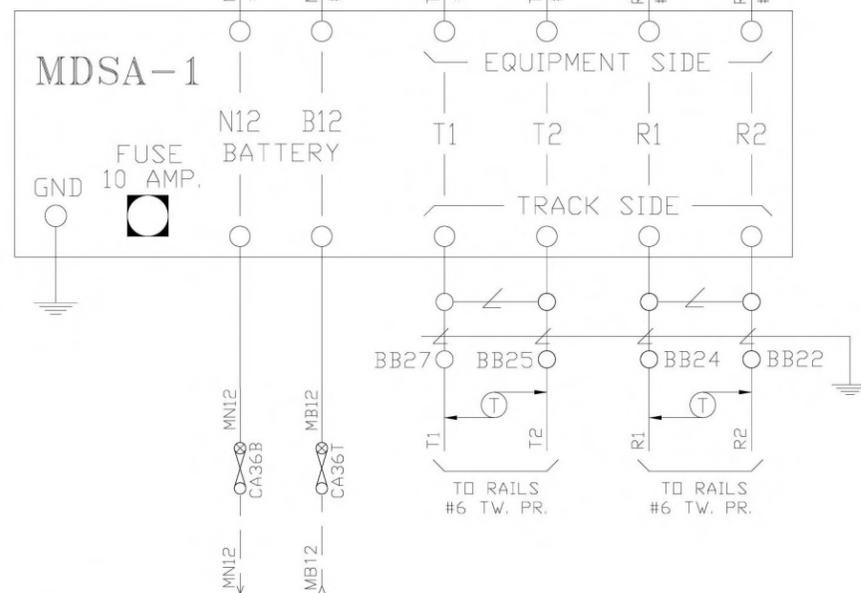
UPON THE APPROACH OF A TRAIN THE PER CONTACTS DROP 26 SECONDS PRIOR TO ACTIVATION OF THE RAILROAD FLASHERS/GATES



*** WARNING ***

HIGHWAY-RAIL GRADE CROSSING WARNING SYSTEM AND HIGHWAY TRAFFIC SIGNALS ARE INTERCONNECTED.

BEFORE MODIFICATION is made to any operation which connects to or controls the timing of an active railroad warning system and/or timing and phasing of a traffic signal the appropriate party(ies) shall be notified and, if necessary, a joint inspection conducted.



BI - DIRECTIONAL
TRK 1 151HZ - 8.0KHZ

- NOTES:
1. ALL WIRE THIS SHEET #10 UNLESS OTHERWISE NOTED.
 2. DENOTES TWISTED PAIR.

AS WIRED XX/XX/XX AS INSTALLED XX/XX/XX

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	WESTERN NEW YORK & PENNSYLVANIA RAILROAD	
	SCALE: NONE DATE: 11/01/2024	APPROVED BY: DRAWN BY: NST REVISED:
	13TH ST. (SR 322) - DOT # 262 836S - MP OC 24.77 FRANKLIN, VENANGO COUNTY, PA	
PMD-4R		DRAWING NUMBER

PMD-4R

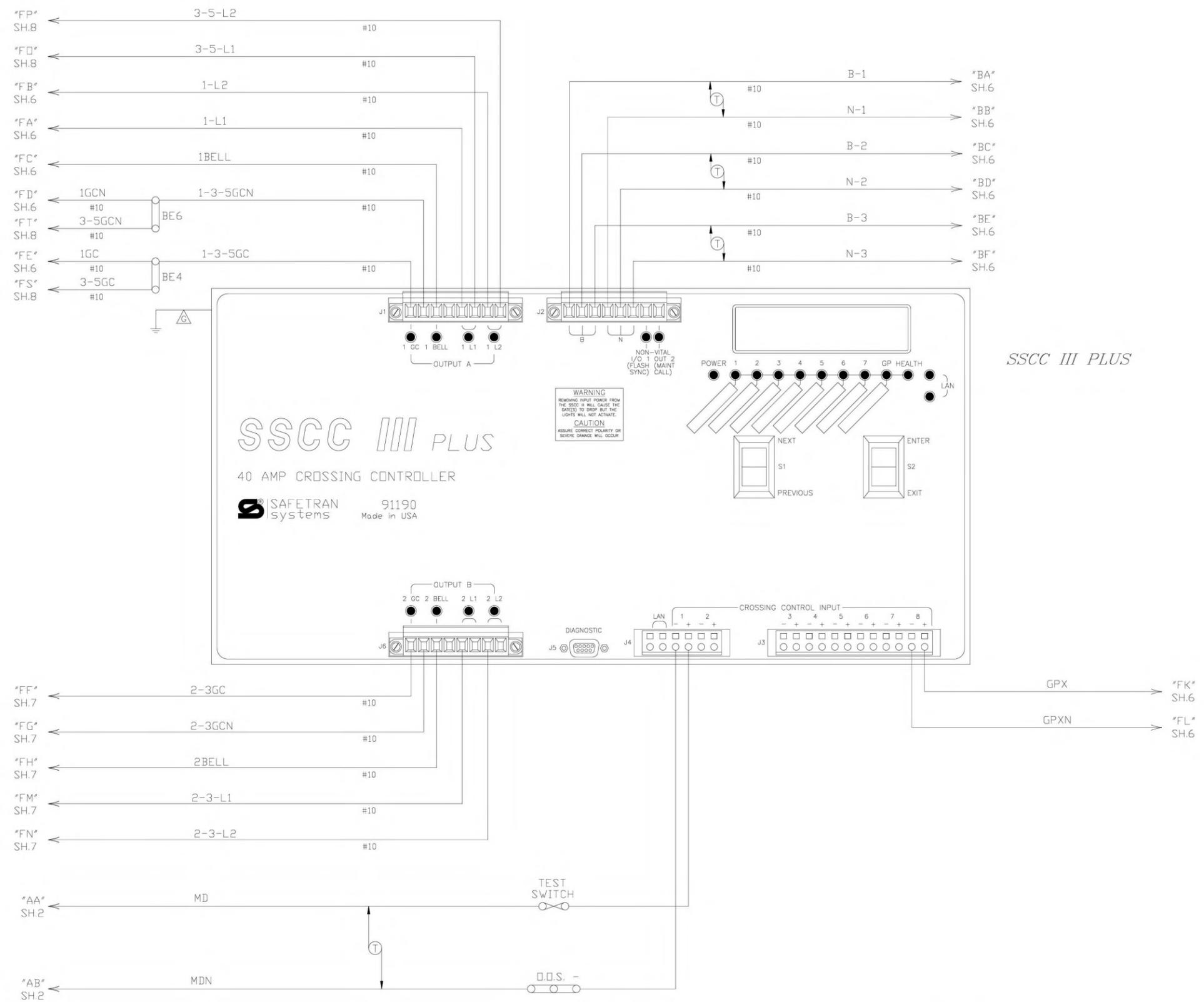
Parameter Name	Track 1
APPLICATION INFO	
APPLICATION	PMD-4R_CW[AP]
CHASSIS ID	4
MDR1	
WARNING TIME	30 SEC
CONSTANT WARNING/ MOTION DETECT MODE	CW
ADVANCE PREEMPTION TIME	26 SEC
AUX RECOVERY TIME	5 SEC
APPROACH SETTINGS	
APPROACH FREQUENCY	151 Hz
MASTER/SLAVE OPERATION	MASTER
TRANSMITTER GAIN	
TRANSMITTER CHECK ADJUSTMENT TCA = TCI - 5	**
TRANSMITTER CHECK IMPEDANCE	
APPROACH TRACK DIRECTION MODE BI / UNI	BI
LUMPED IMPEDANCE ADJUSTMENT	*
TRACK ISLAND ASSIGN	ISL_ASSIGN
APPROACH LENGTH	880'
AUTO RX ENABLE/DISABLE	ENABLE
ADVANCED APPROACH SETTINGS	
MD TIMER ENABLE	ENABLE
MD TIMER DELAY	10 MIN
FALSE SHUNT ENABLE	DISABLE
FALSE SHUNT RX	NA
FALSE SHUNT DELAY	NA
APPROACH RELEASE ENABLE	DISABLE
APPROACH RELEASE RX	NA
APPROACH RELEASE DELAY	NA
LOS TIME	16 SEC.
APPROACH SETTING	NORMAL
APPROACH MAINTENANCE	
APPROACH TRACK	ENABLED
APPROACH DISABLE TIMEOUT	2 HR.
BALLAST COMPENSATION	
PHASE COMPENSATION	
ISLAND SETTINGS	
ISLAND TYPE	INTERNAL
ISLAND ENABLED	ENABLED
ISLAND DISABLE TIMEOUT	2 HR.
ISLAND FREQUENCY	8.0KHz
LOS COUNT	2 SEC.
FAULT DELAY	2 SEC.
TRANSMITTER GAIN	

Note: ADL = Application Default Setting
 FDL = Factory Default Setting
 NA = Non Applicable
 * = Limited Predict Mode Only
 ** = Field Adjustment to be made according to the
 PMD-4R Instruction Manual and supplements

AS WIRED XX/XX/XX

AS INSTALLED XX/XX/XX

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	WESTERN NEW YORK & PENNSYLVANIA RAILROAD	
	SCALE: NONE	APPROVED BY:
	DATE: 11/01/2024	DRAWN BY: NST
	13TH ST. (SR 322) - DOT # 262 836S - MP OC 24.77 FRANKLIN, VENANGO COUNTY, PA	
PROGRAM INFORMATION		DRAWING NUMBER



NOTES:

1. ALL WIRING THIS SHEET TO BE #14 AWG, UNLESS OTHERWISE NOTED.
2. = TWISTED WIRE - 2 TURNS PER FOOT.

WARNING
 PLACING JUMPER ON THE
 OUT-OF-SERVICE TERMINALS
 COMPLETELY DISABLES THIS HIGHWAY
 CROSSING WARNING SYSTEM. PROPER
 AUTHORITIES MUST BE NOTIFIED
 PRIOR TO OUT-OF-SERVICE.

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED XX/XX/XX AS INSTALLED XX/XX/XX		
	WESTERN NEW YORK & PENNSYLVANIA RAILROAD		
	SCALE: NONE	APPROVED BY:	DRAWN BY: NST
	DATE: 11/01/2024		REVISED:
13TH ST. (SR 322) - DOT # 262 836S - MP OC 24.77 FRANKLIN, VENANGO COUNTY, PA			
SSCC III PLUS		DRAWING NUMBER	

SSCC III PLUS HISTORY CARD

Sheet 1 of 2

SITE SETUP DATA

Unit Serial No: _____		Crossing No: _____	
Date Installed: _____		Installed By: _____	
Crossing Controller (Common Return Gate Drive) <input checked="" type="checkbox"/> 40-ampere unit 91190 <input type="checkbox"/> 20-ampere unit 91195		Surge Panels (Common Return Gate Drive) <input type="checkbox"/> Other _____ <input type="checkbox"/> 91170-1 (Use with 40-Amp or 20-Amp common gate drive) <input checked="" type="checkbox"/> 91170-2 (Use with 40-Amp common gate drive only)	
Crossing Controller (Isolated Gate Drive) <input type="checkbox"/> 40-ampere unit 91200 <input type="checkbox"/> 20-ampere unit 91205		Surge Panels (Isolated Gate Drive) <input type="checkbox"/> Other _____ <input type="checkbox"/> 91181-1 (Use with 40-Amp or 20-Amp isolated gate drive) <input type="checkbox"/> 91190-2 (Use with 40-Amp isolated gate drive only)	

PROGRAM	Notes	Initial Setting By: _____ Date: _____	Setting Changed By: _____ Date: _____	Setting Changed By: _____ Date: _____
FLASHRATE:	30-70 flashes/minute Default = 50	50 flashes/minute	_____ flashes/minute	_____ flashes/minute
GATES USED:	YES/NO Default = YES	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO
1 GC DELAY:	3-20 sec. Default = 4	4 seconds	_____ seconds	_____ seconds
2 GC DELAY (410A):	3-20 sec. Default = 4	4 seconds	_____ seconds	_____ seconds
GATES RISING BELL:	ON/OFF Default = ON	<input type="checkbox"/> ON <input checked="" type="checkbox"/> OFF	<input type="checkbox"/> ON <input type="checkbox"/> OFF	<input type="checkbox"/> ON <input type="checkbox"/> OFF
ENABLED INPUTS:	Inputs 1 - 7 only	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7
GC2/I7	GC2 normal, I7 = normal GC2 inverted, I7 = normal GC2 prmt relay, I7 = fobk	<input checked="" type="checkbox"/> NORMAL <input type="checkbox"/> INVERTED <input type="checkbox"/> PRE-EMPT SIM <input type="checkbox"/> PRE-EMPT ADV	<input type="checkbox"/> NORMAL <input type="checkbox"/> INVERTED <input type="checkbox"/> PRE-EMPT SIM <input type="checkbox"/> PRE-EMPT ADV	<input type="checkbox"/> NORMAL <input type="checkbox"/> INVERTED <input type="checkbox"/> PRE-EMPT SIM <input type="checkbox"/> PRE-EMPT ADV
ADV PRE-EMPT TIME (40A):	1-60 sec., Default = 1	N/A seconds	_____ seconds	_____ seconds
MIN ACTIVATION TIME:	0-30 sec., Default = 20	N/A seconds	_____ seconds	_____ seconds
STICK RELEASE TIME:	5-30 min., Default = 15	N/A minutes	_____ minutes	_____ minutes
SUP ISLAND TIME:	5-20 min., Default = 20	_____ minutes	_____ minutes	_____ minutes
ENABLED OUTPUTS (40A):	Default = A+B	<input checked="" type="checkbox"/> A+B <input type="checkbox"/> A <input type="checkbox"/> B	<input type="checkbox"/> A+B <input type="checkbox"/> A <input type="checkbox"/> B	<input type="checkbox"/> A+B <input type="checkbox"/> A <input type="checkbox"/> B
DAYLIGHT SAVING:	Default = DISABLED	<input type="checkbox"/> Enabled <input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled <input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled <input type="checkbox"/> Disabled
DATE:	-	<input checked="" type="checkbox"/> Date Set	<input type="checkbox"/> Date Set	<input type="checkbox"/> Date Set
TIME:	24 - hour format	<input checked="" type="checkbox"/> Time Set	<input type="checkbox"/> Time Set	<input type="checkbox"/> Time Set
PASSWORD:	Default = DISABLED	<input type="checkbox"/> Enabled <input checked="" type="checkbox"/> Disabled	<input type="checkbox"/> Enabled <input type="checkbox"/> Disabled	<input type="checkbox"/> Enabled <input type="checkbox"/> Disabled

CONFIGURE		1: _____ sec	5: _____ sec	1: _____ sec	5: _____ sec	1: _____ sec	5: _____ sec
LDS TIMERS: (MCF-dependent)	0-20 seconds, (Inputs 1 - 7, depending on MCF) Default = 0	2: _____ sec	6: _____ sec	2: _____ sec	6: _____ sec	2: _____ sec	6: _____ sec
		3: _____ sec	7: _____ sec	3: _____ sec	7: _____ sec	3: _____ sec	7: _____ sec
		4: _____ sec		4: _____ sec		4: _____ sec	
MCF:	-	MCF: BASIC	ID: 130	MCF: _____	ID: _____	MCF: _____	ID: _____
		CRC: 1D240612		CRC: _____		CRC: _____	
ATCS Address:	Default = 700000000000						

Document No: SSSCIIIPLUS_historycard Version: D

SSCC III PLUS HISTORY CARD

Sheet 2 of 2

SITE SETUP DATA continued

CONFIGURE				
LDW BATTERY:	9.0 - 15.0 volts, or Disabled Default = DISABLED	<input checked="" type="checkbox"/> Disabled <input type="checkbox"/> Enabled _____ volts	<input type="checkbox"/> Disabled <input type="checkbox"/> Enabled _____ volts	<input type="checkbox"/> Disabled <input type="checkbox"/> Enabled _____ volts
AUX I/O:	Default = NONVITAL OUTPUT	<input checked="" type="checkbox"/> NV Out <input type="checkbox"/> Fl Sync In <input type="checkbox"/> Flash Sync Out	<input type="checkbox"/> NV Out <input type="checkbox"/> Fl Sync In <input type="checkbox"/> Flash Sync Out	<input type="checkbox"/> NV Out <input type="checkbox"/> Fl Sync In <input type="checkbox"/> Flash Sync Out
DETECT LAMP NEUTRAL WIRE:	Default = Yes	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

TEST CONFIGURE				
LAMP TEST CANCEL TIMER:	1-15 min. Default = 5	_____ minutes	_____ minutes	_____ minutes
LAMP TEST DELAY TIMER:	30-120 sec. Default = 30	_____ seconds	_____ seconds	_____ seconds
LAMP TEST ON TIMER:	15-120 sec. Default = 15	_____ seconds	_____ seconds	_____ seconds

STANDARD SETUP LAMP VOLTAGES PROCEDURE USING TRUE RMS AC + DC METER, OR CONVERSION TABLE BELOW

SETUP LAMP VOLTAGES	Initial Setting By: _____ Date: _____ Meter: _____	Setting Changed By: _____ Date: _____ Meter: _____	Setting Changed By: _____ Date: _____ Meter: _____
FAR GATE	1 L1 = _____ volts	1 L1 = _____ volts	1 L1 = _____ volts
	1 L2 = _____ volts	1 L2 = _____ volts	1 L2 = _____ volts
	2 L1 = _____ volts	2 L1 = _____ volts	2 L1 = _____ volts
	2 L2 = _____ volts	2 L2 = _____ volts	2 L2 = _____ volts
SSCC III PLUS	1 L1 = _____ volts	1 L1 = _____ volts	1 L1 = _____ volts
	1 L2 = _____ volts	1 L2 = _____ volts	1 L2 = _____ volts
	2 L1 = _____ volts	2 L1 = _____ volts	2 L1 = _____ volts
	2 L2 = _____ volts	2 L2 = _____ volts	2 L2 = _____ volts
NEAR GATE	1 L1 = _____ volts	1 L1 = _____ volts	1 L1 = _____ volts
	1 L2 = _____ volts	1 L2 = _____ volts	1 L2 = _____ volts
	2 L1 = _____ volts	2 L1 = _____ volts	2 L1 = _____ volts
	2 L2 = _____ volts	2 L2 = _____ volts	2 L2 = _____ volts

Multimeter Reading Variance From Actual Lamp Voltage

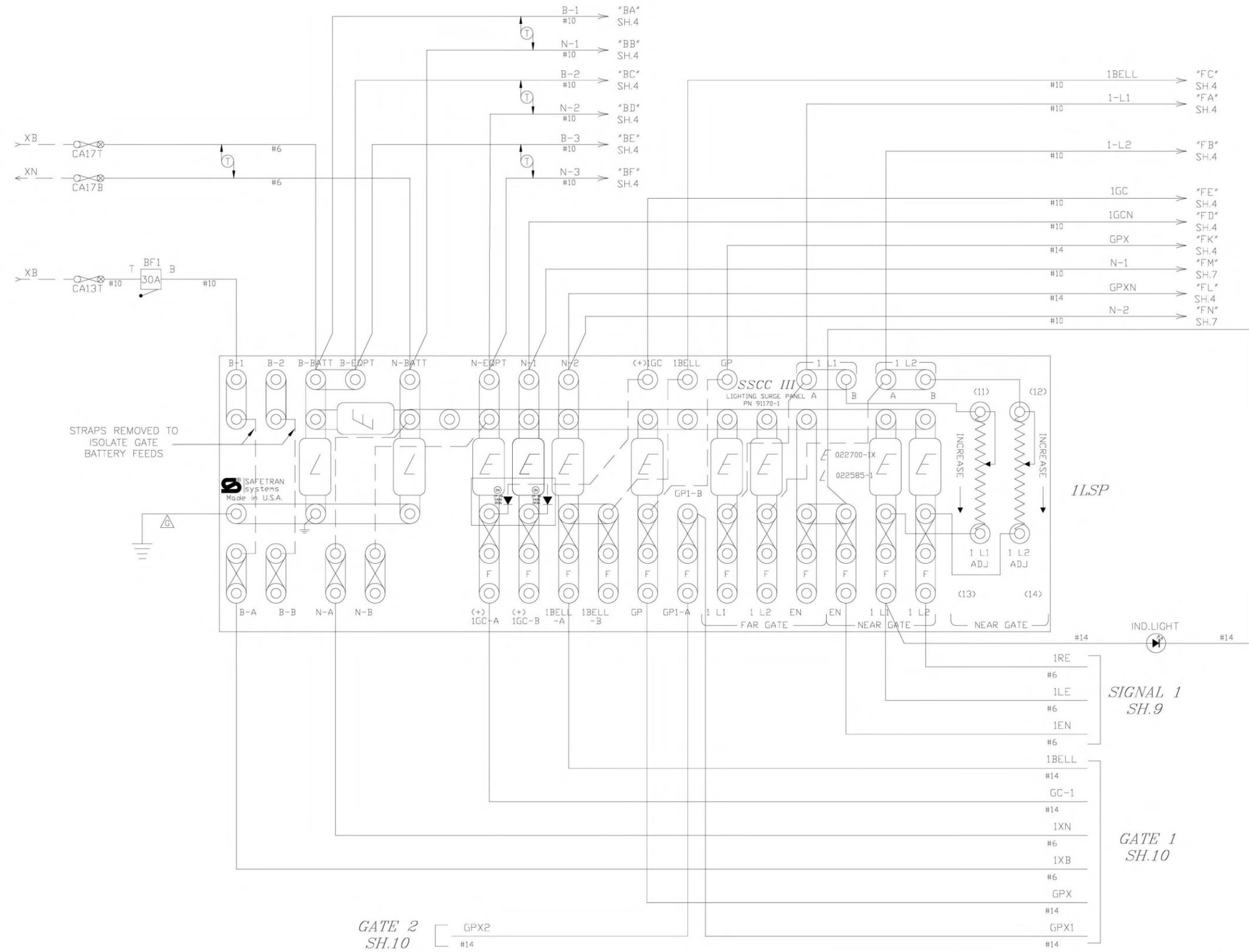
Battery Bank Voltages	Valid Lamp Output Range (in volts) [1]	Digital Meter (Fluke B7 or equivalent)	Analog Meter (Simpson 260 or TS111)
13.3	9.0 to 12.0	1.3 volts below actual value	0.6 volts below actual value
14.7	9.0 to 12.0	2.2 volts below actual value	1.1 volts below actual value
15.8	9.0 to 12.0	2.6 volts below actual value	2.0 volts below actual value

[1] For lamp output settings greater than 12.0 volts, reduce the listed values by 30%. Lamp voltage measurements should be accurate to 0.3 volts.

Document No: SSSCIIIPLUS_historycard Version: D

AS WIRED XX/XX/XX AS INSTALLED XX/XX/XX

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	WESTERN NEW YORK & PENNSYLVANIA RAILROAD	
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	DATE: 11/01/2024	DRAWN BY: NST
	13TH ST. (SR 322) - DOT # 262 836S - MP OC 24.77 FRANKLIN, VENANGO COUNTY, PA	
SSSC III PLUS PROGRAM CARD		DRAWING NUMBER



STRAPS REMOVED TO ISOLATE GATE BATTERY FEEDS

SAFETRAN Systems
Made in U.S.A.

SSCC III
LIGHTING SURGE PANEL A
PN 91170-1

1LSP

SIGNAL 1
SH.9

GATE 1
SH.10

GATE 2
SH.10

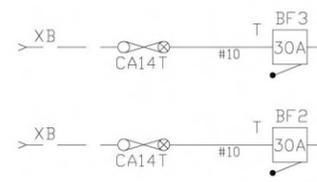
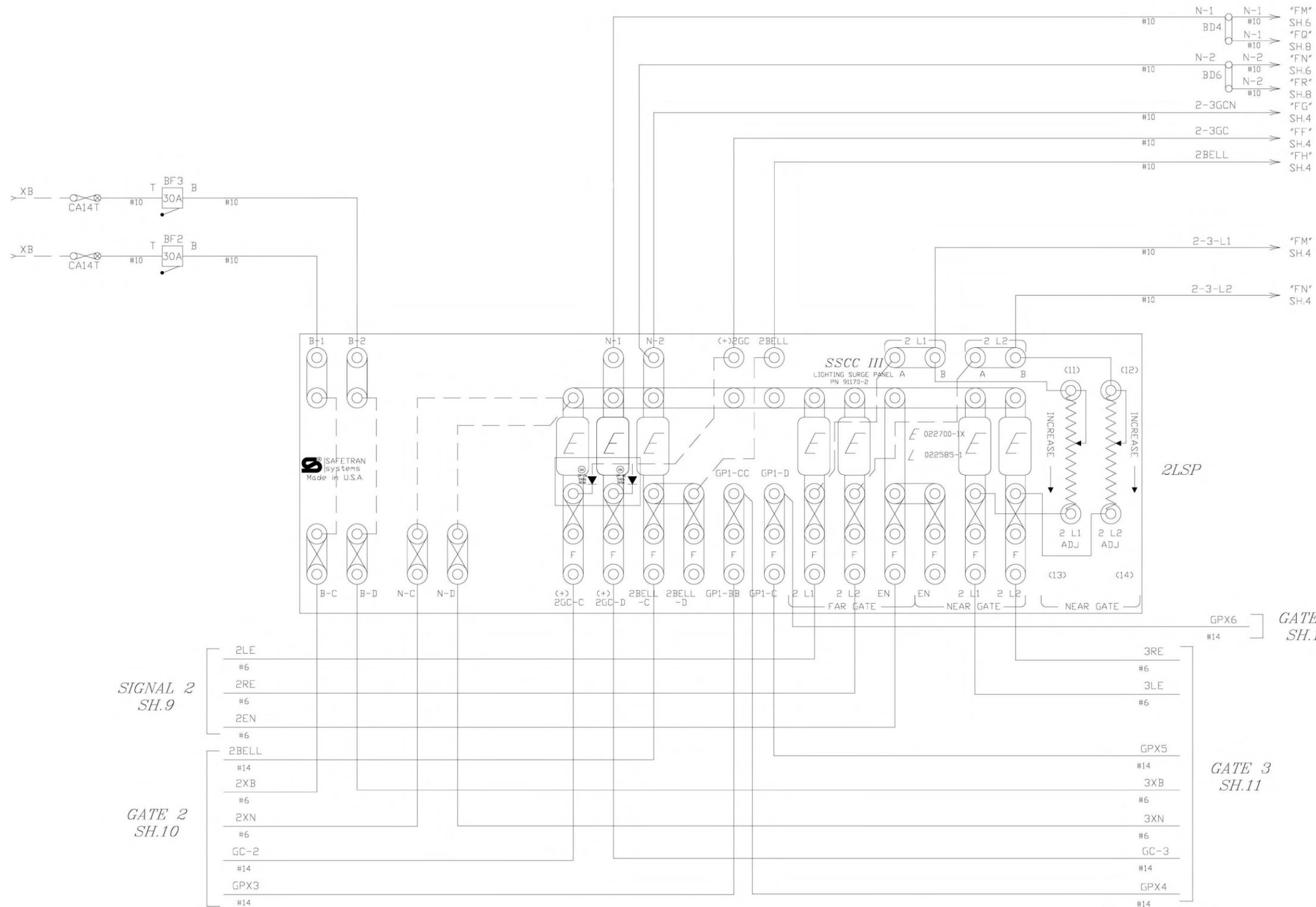
AS WIRED XX/XX/XX

AS INSTALLED XX/XX/XX

- NOTES:
1. ALL WIRING THIS SHEET TO BE #16 AWG, UNLESS OTHERWISE NOTED.
 2. = TWISTED WIRE - 2 TURNS PER FOOT.

DIAMONDBACK SIGNAL
 (410) 795-9601
 5965 EXCHANGE DRIVE
 SUITE "D"
 SYKESVILLE, MD
 21784

WESTERN NEW YORK & PENNSYLVANIA RAILROAD		
SCALE: NONE	APPROVED BY:	DRAWN BY: NST
DATE: 11/01/2024		REVISED:
13TH ST. (SR 322) - DOT # 262 836S - MP OC 24.77 FRANKLIN, VENANGO COUNTY, PA		
LSP-1	DRAWING NUMBER	



SIGNAL 2
SH.9

GATE 2
SH.10

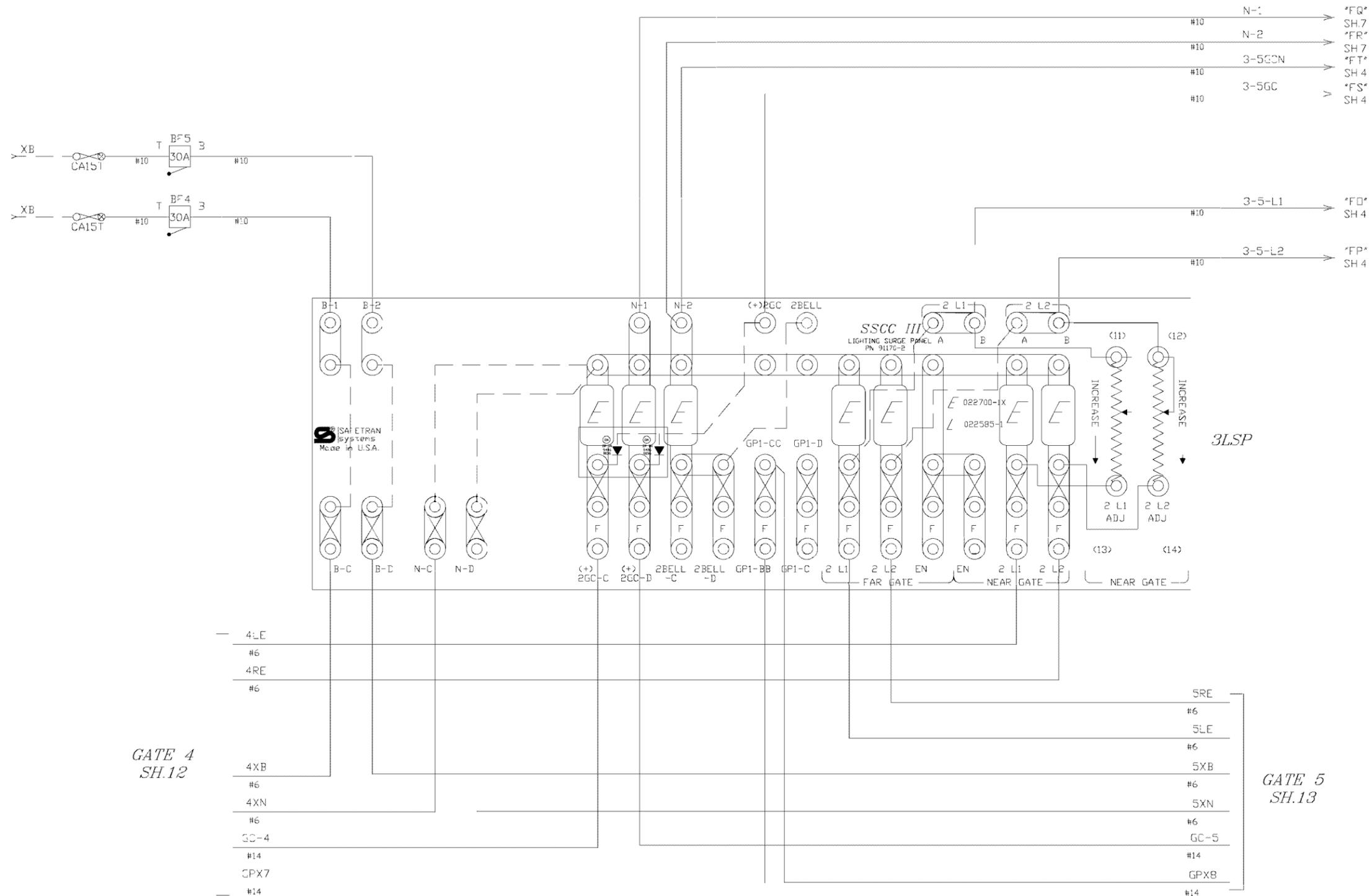
GATE 4
SH.12

GATE 3
SH.11

AS WIRED XX/XX/XX AS INSTALLED XX/XX/XX

- NOTES:
1. ALL WIRING THIS SHEET TO BE #16 AWG, UNLESS OTHERWISE NOTED.
 2. = TWISTED WIRE - 2 TURNS PER FOOT.

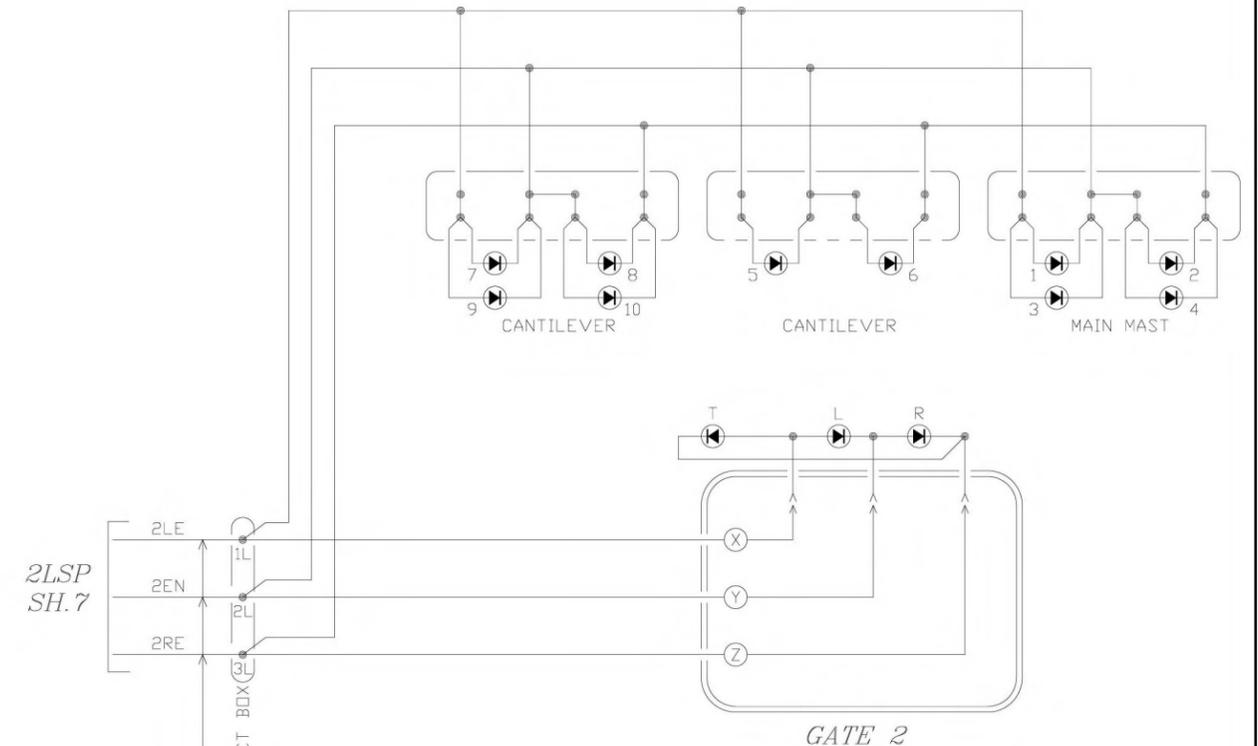
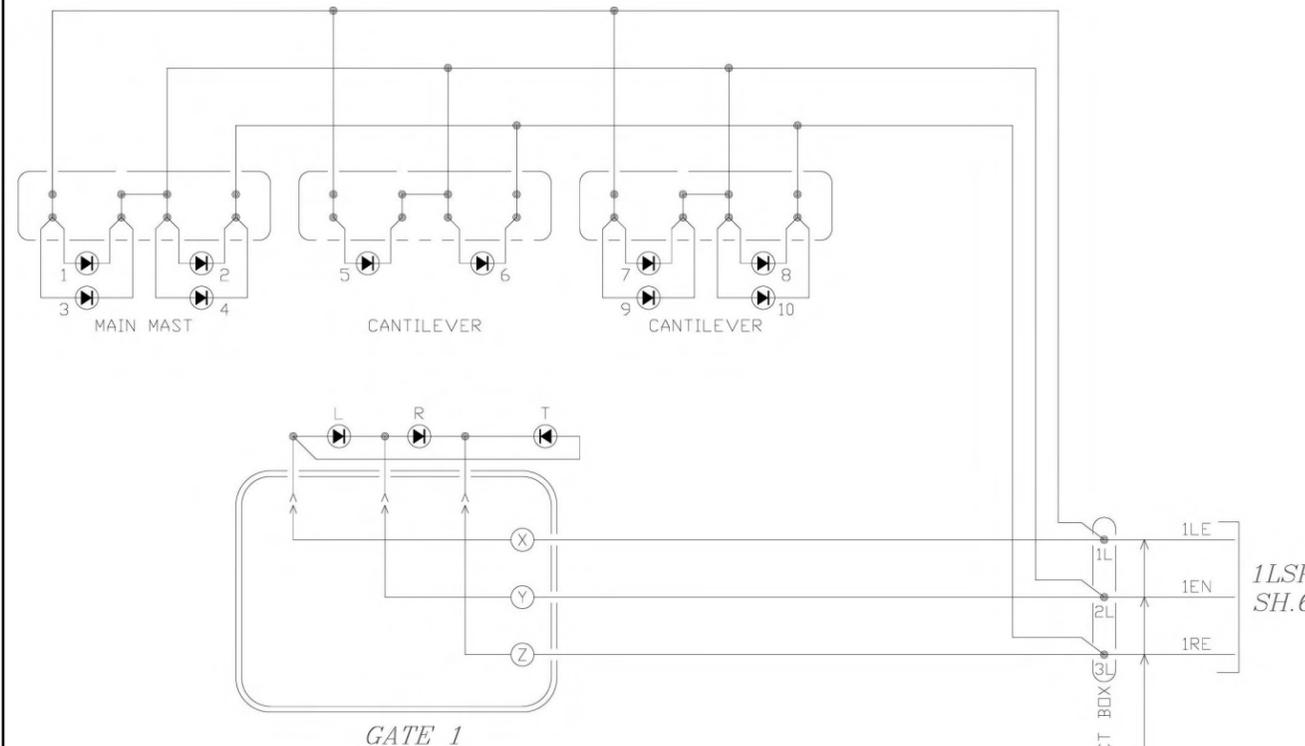
DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784		WESTERN NEW YORK & PENNSYLVANIA RAILROAD	
		SCALE: NONE DATE: 11/01/2024	APPROVED BY: DRAWN BY: NST REVISED:
13TH ST. (SR 322) - DOT # 262 836S - MP OC 24.77 FRANKLIN, VENANGO COUNTY, PA		LSP-2 DRAWING NUMBER	



NOTES:
 1. ALL WIRING THIS SHEET TO BE #16 AWG. UNLESS OTHERWISE NOTED.
 2. = TWISTED WIRE - 2 TURNS PER FOOT.

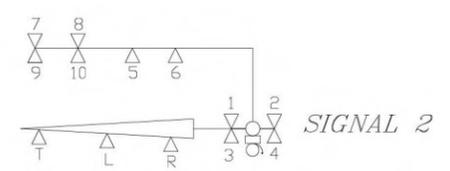
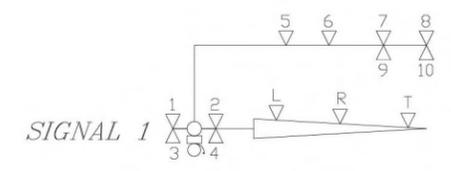
DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	WESTERN NEW YORK & PENNSYLVANIA RAILROAD	
	SCALE: NONE DATE: 11/01/2024	APPROVED BY: [Signature] DRAWN BY: NST
	13TH ST. (SR 322) - DOT # 262 836S - MP OC 24.77 FRANKLIN, VENANGO COUNTY, PA	
	LSP-3	DRAWING NUMBER

AS WIRED XX/XX/XX AS INSTALLED XX/XX/XX



BATT WIRES ON SH. 10
ALSO IN THIS CABLE → 5C#6

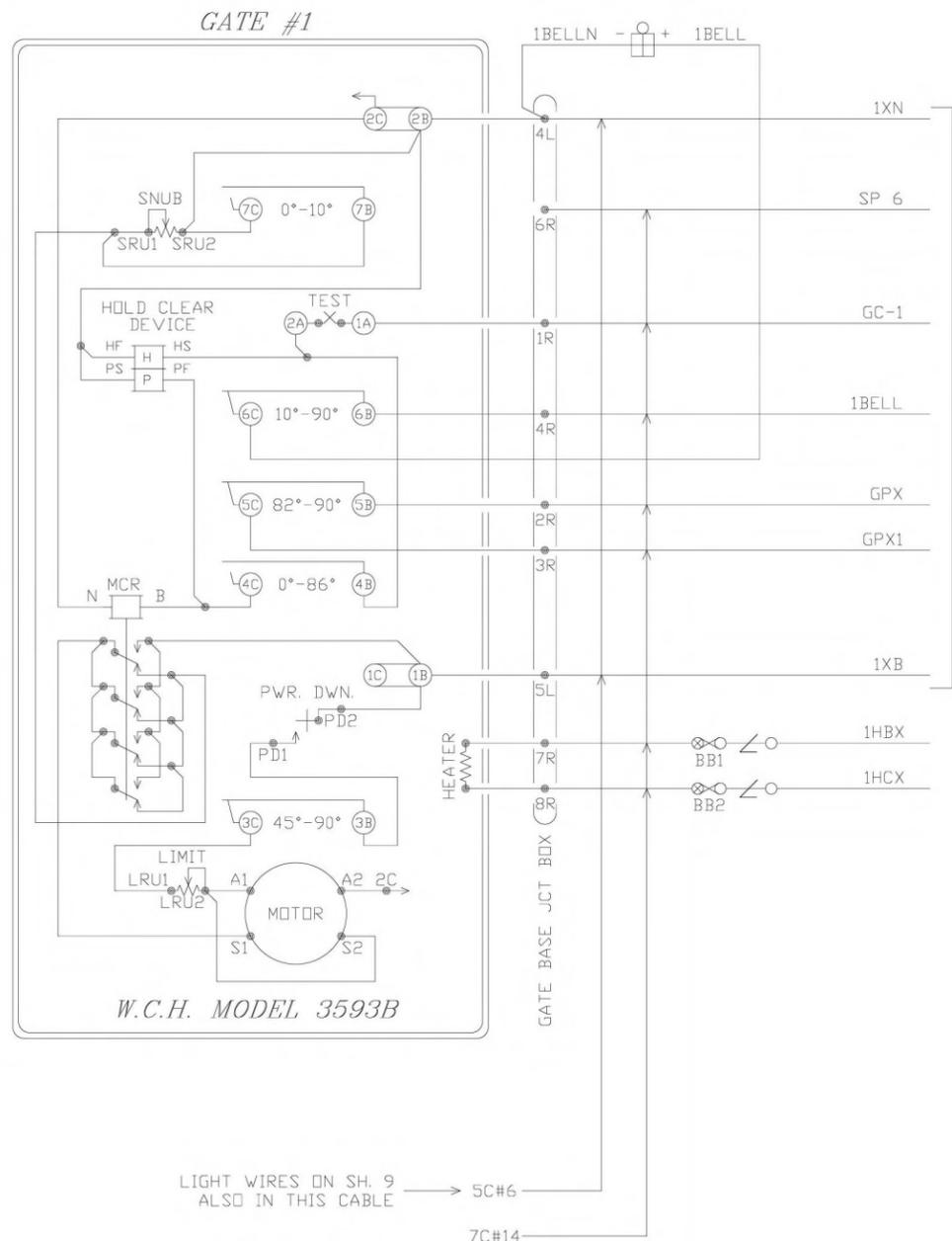
← 5C#6 BATT WIRES ON SH. 10
ALSO IN THIS CABLE



NOTES:
1. ALL WIRING TO BE #14 AWG UNLESS OTHERWISE NOTED.

AS WIRED XX/XX/XX AS INSTALLED XX/XX/XX

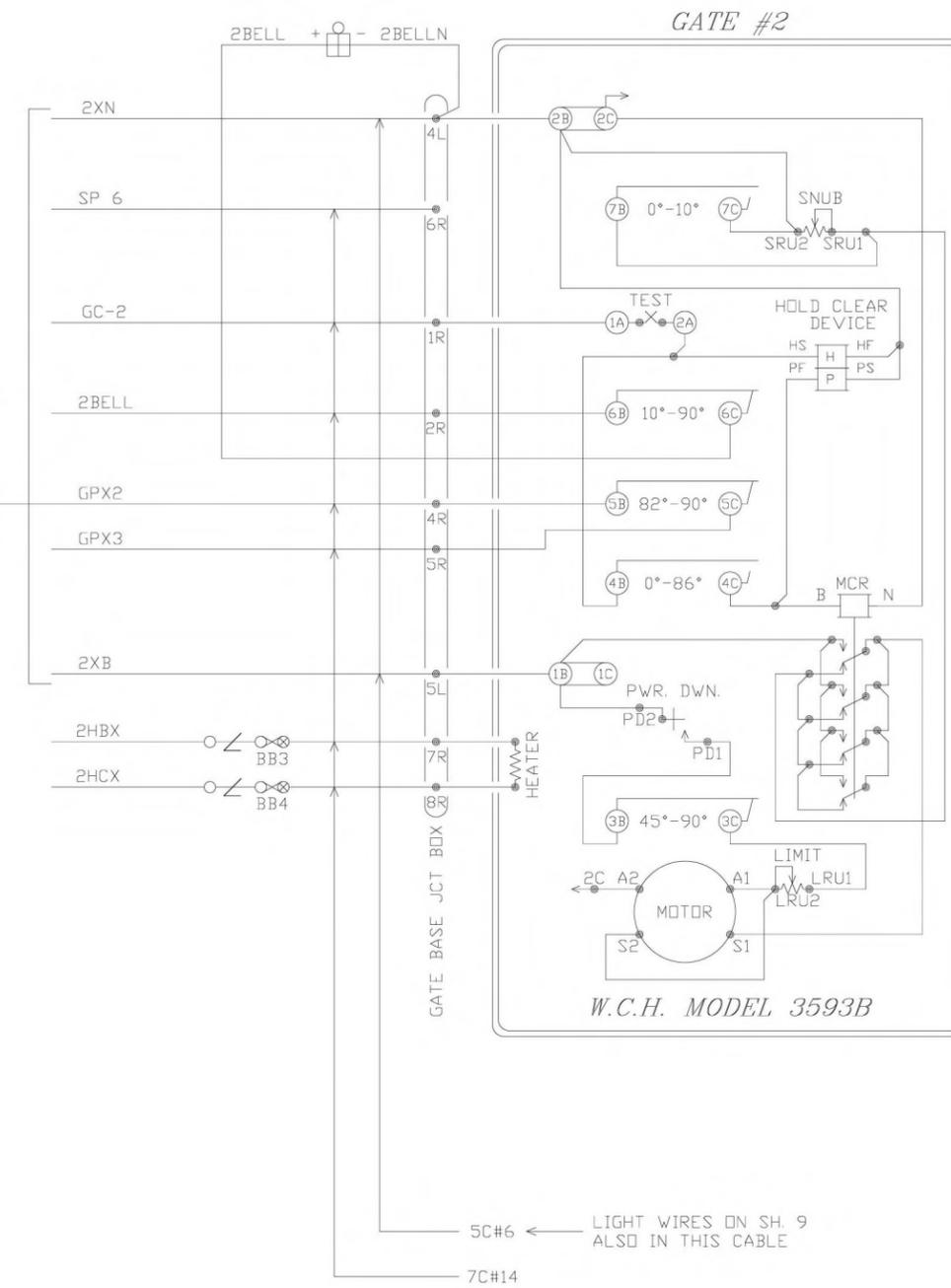
DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	WESTERN NEW YORK & PENNSYLVANIA RAILROAD		
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	DATE: 11/01/2024		REVISED:
	13TH ST. (SR 322) - DOT # 262 836S - MP OC 24.77		DRAWING NUMBER
FRANKLIN, VENANGO COUNTY, PA			
FLASHERS 1&2 CIRCUIT PLAN			



1LSP
SH. 6

2LSP
SH. 7

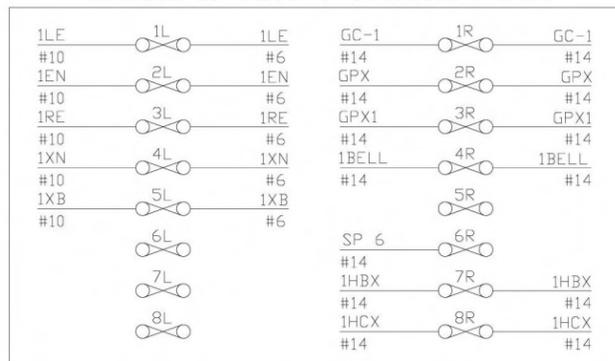
1LSP
SH. 6



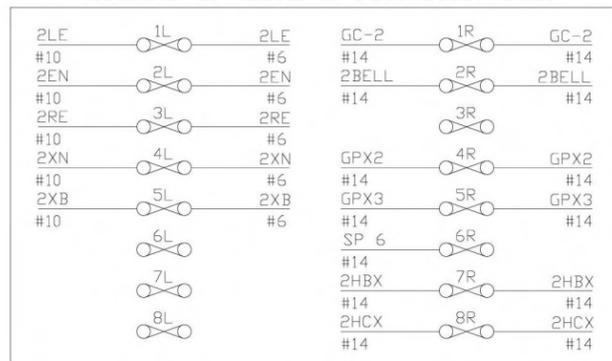
LIGHT WIRES ON SH. 9
ALSO IN THIS CABLE

LIGHT WIRES ON SH. 9
ALSO IN THIS CABLE

SIGNAL & GATE 1 JUNCTION BOX



SIGNAL & GATE 2 JUNCTION BOX



NOTES:
1. ALL WIRING TO BE #14 AWG UNLESS OTHERWISE NOTED.

AS WIRED XX/XX/XX

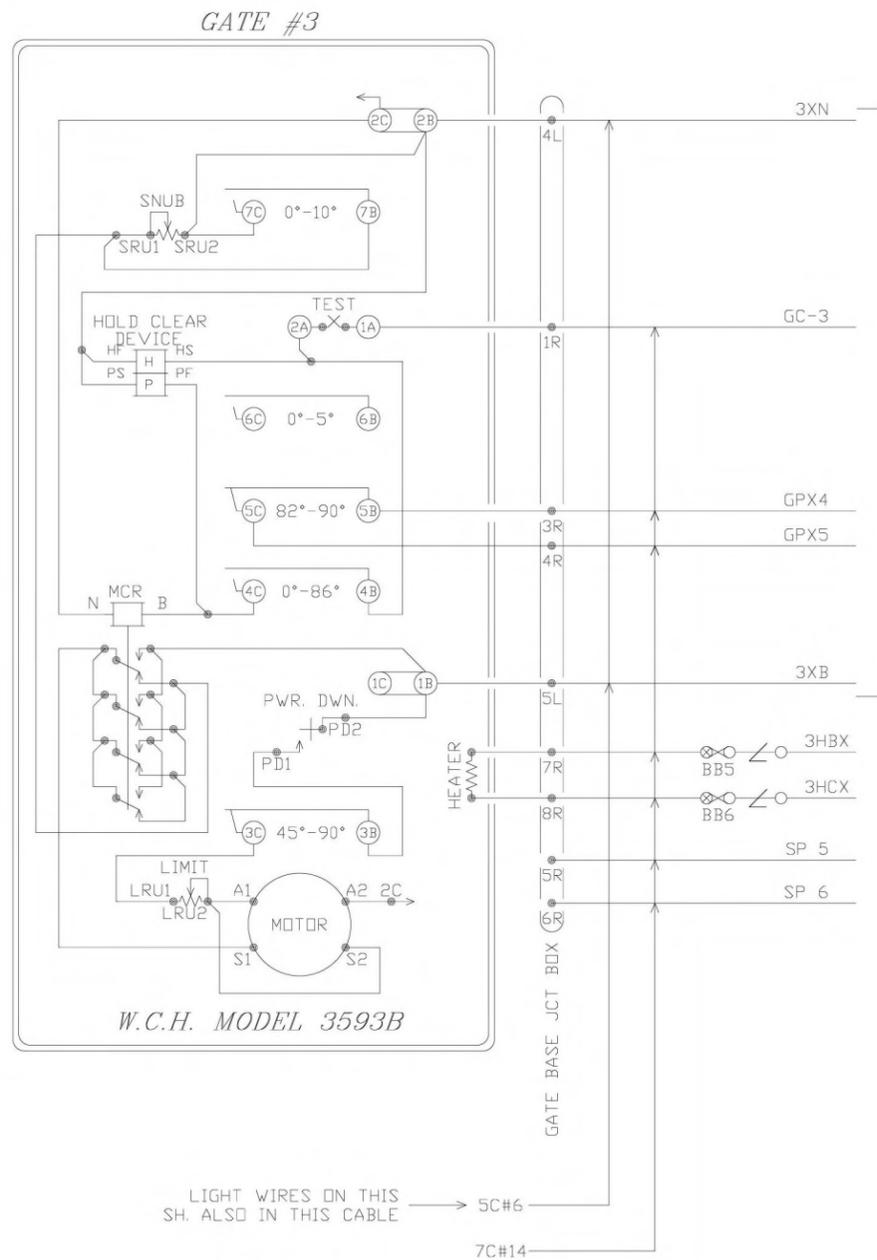
AS INSTALLED XX/XX/XX

DIAMONDBACK SIGNAL

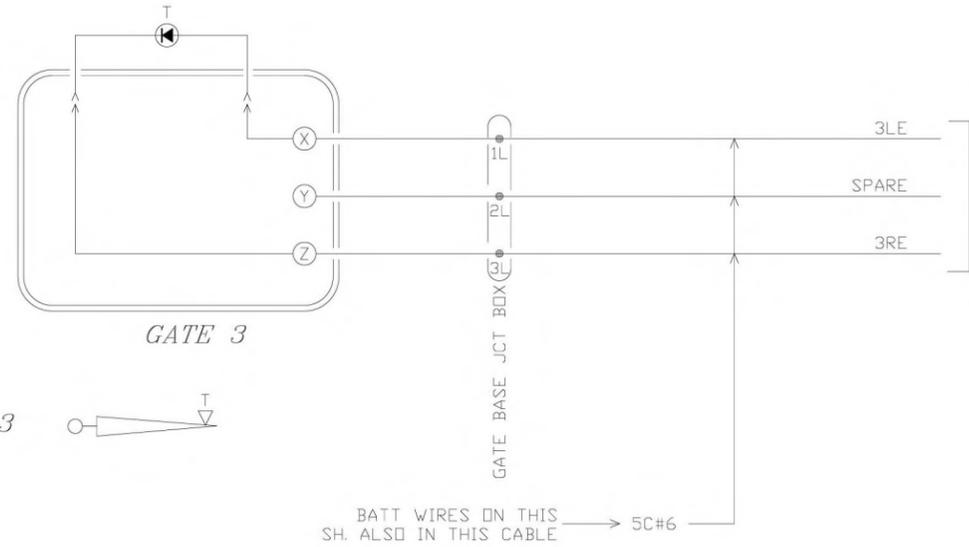
(410) 795-9601
5965 EXCHANGE DRIVE
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WESTERN NEW YORK & PENNSYLVANIA RAILROAD

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DATE: 11/01/2024		REVISED:
13TH ST. (SR 322) - DOT # 262 836S - MP OC 24.77		
FRANKLIN, VENANGO COUNTY, PA		
GATE 1 & 2 CIRCUIT PLAN		DRAWING NUMBER

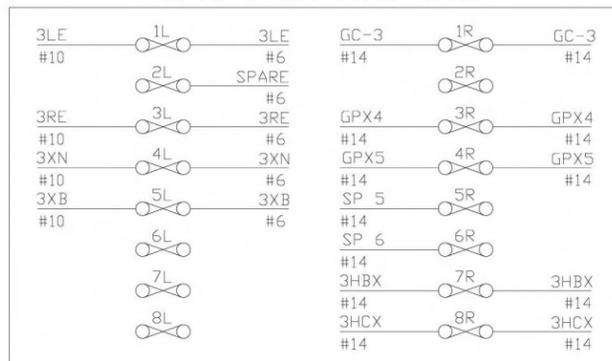


2LSP
SH.7



2LSP
SH.7

GATE 3 JUNCTION BOX



NOTES:
1. ALL WIRING TO BE #14 AWG UNLESS OTHERWISE NOTED.

AS WIRED XX/XX/XX AS INSTALLED XX/XX/XX

DIAMONDBACK SIGNAL

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SYKESVILLE, MD
21784

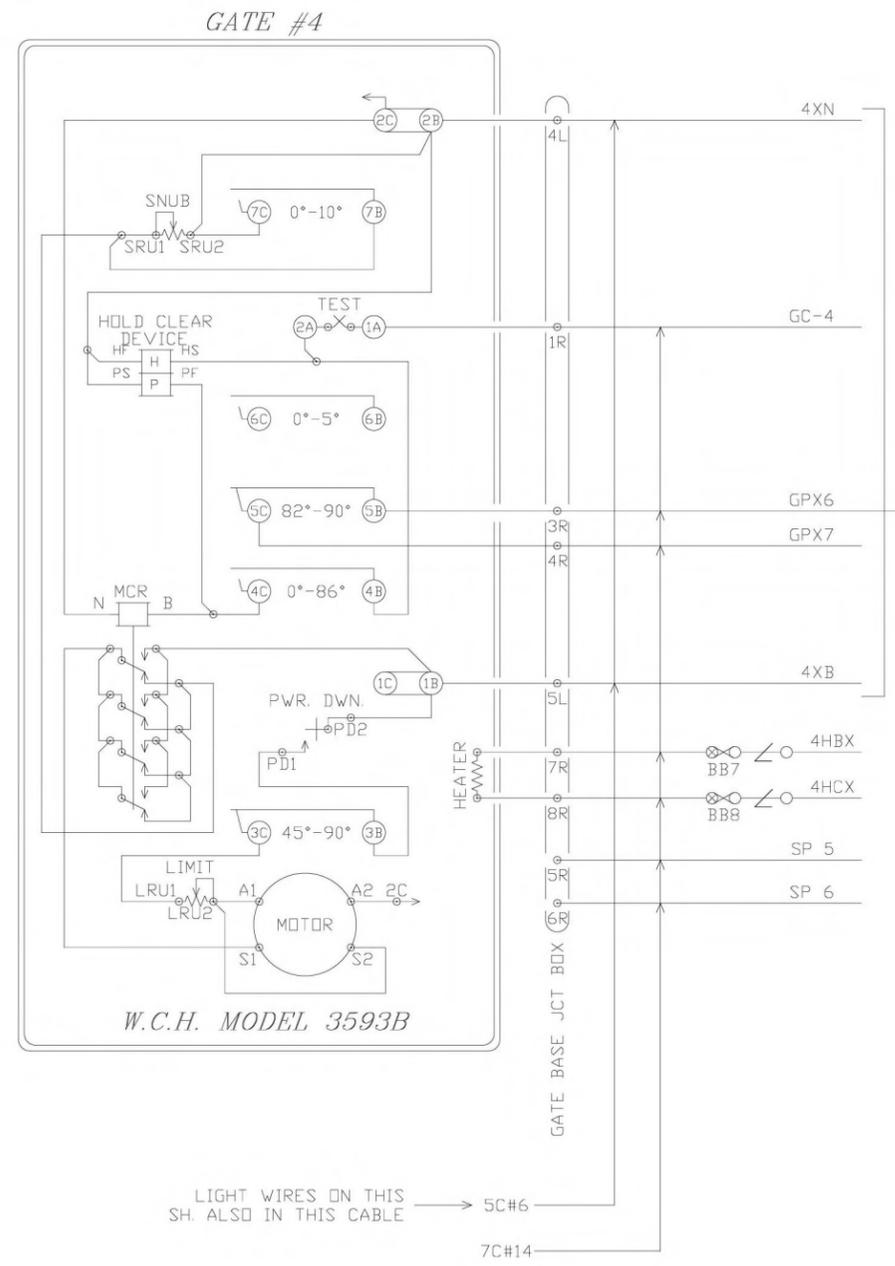
WESTERN NEW YORK & PENNSYLVANIA RAILROAD

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DATE: 11/01/2024 REVISED:

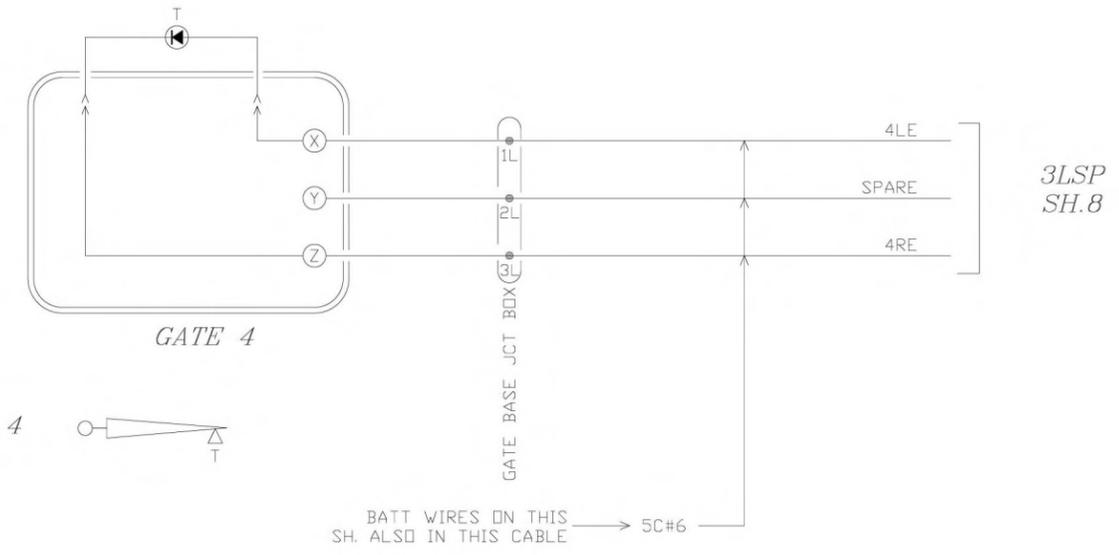
13TH ST. (SR 322) - DOT # 262 836S - MP OC 24.77
FRANKLIN, VENANGO COUNTY, PA

GATE 3 CIRCUIT PLAN

DRAWING NUMBER



3LSP SH.8
2LSP SH.7



GATE 4 JUNCTION BOX

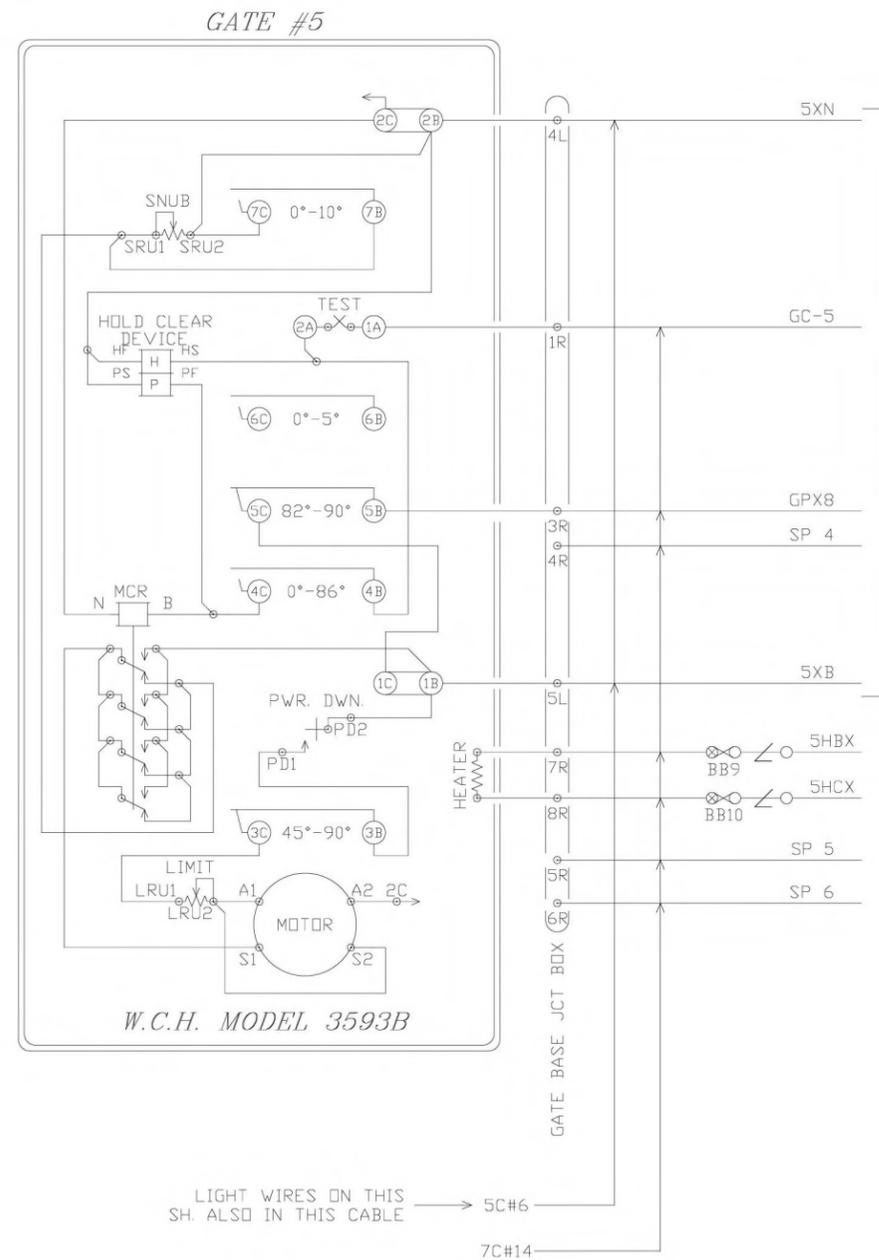
4LE #10	1L	4LE #6	GC-4 #14	1R	GC-4 #14
	2L	SPARE #6		2R	
4RE #10	3L	4RE #6	GPX6 #14	3R	GPX6 #14
4XN #10	4L	4XN #6	GPX7 #14	4R	GPX7 #14
4XB #10	5L	4XB #6	SP 5 #14	5R	
	6L		SP 6 #14	6R	
	7L		4HBX #14	7R	4HBX #14
	8L		4HCX #14	8R	4HCX #14

NOTES:
1. ALL WIRING TO BE #14 AWG UNLESS OTHERWISE NOTED.

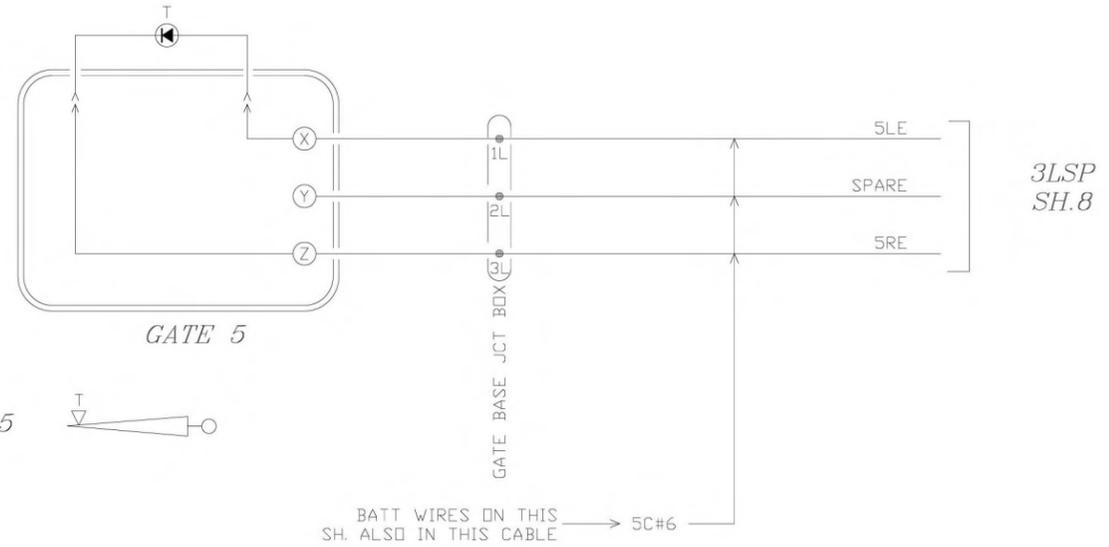
AS WIRED XX/XX/XX AS INSTALLED XX/XX/XX

DIAMONDBACK SIGNAL
(410) 795-9601
5965 EXCHANGE DRIVE
SUITE "D"
SYKESVILLE, MD 21784

WESTERN NEW YORK & PENNSYLVANIA RAILROAD		
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13TH ST. (SR 322) - DOT # 262 836S - MP OC 24.77		
FRANKLIN, VENANGO COUNTY, PA		
GATE 4 CIRCUIT PLAN		DRAWING NUMBER

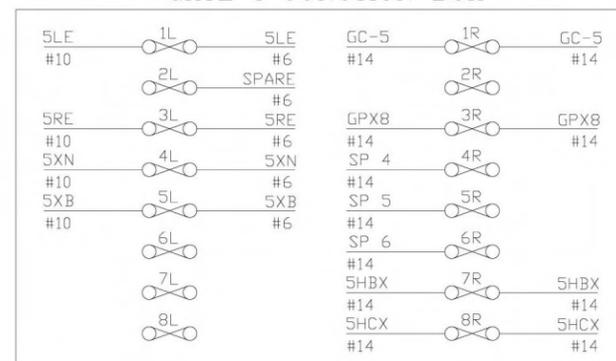


*3LSP
SH.8*



*3LSP
SH.8*

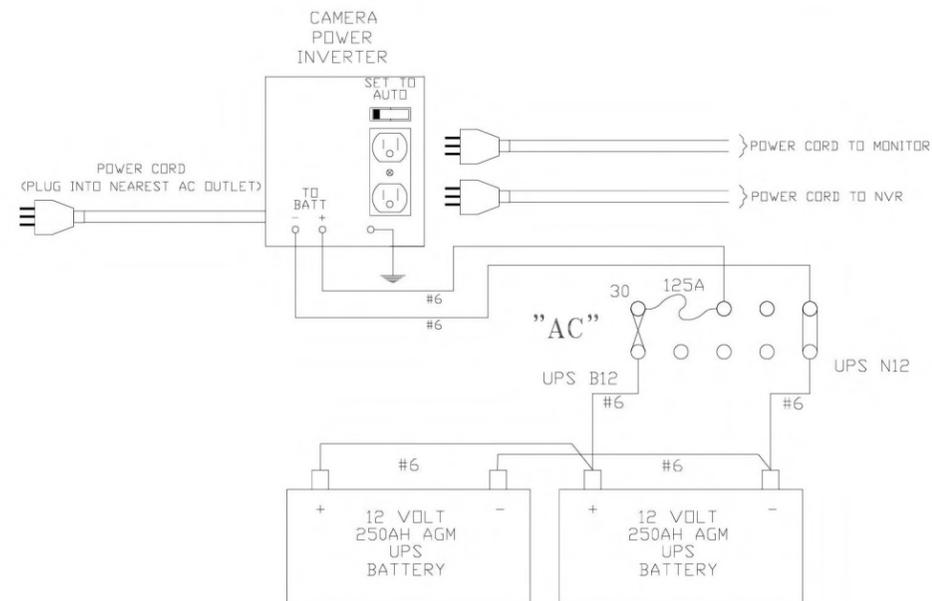
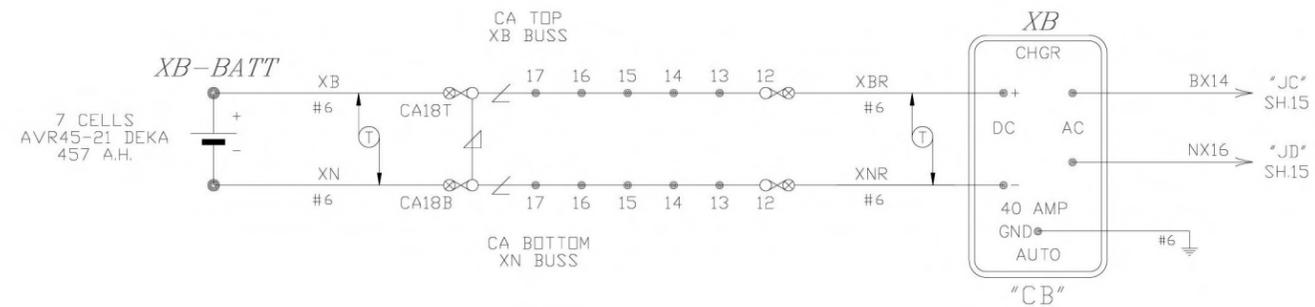
GATE 5 JUNCTION BOX



NOTES:
1. ALL WIRING TO BE #14 AWG UNLESS OTHERWISE NOTED.

AS WIRED XX/XX/XX AS INSTALLED XX/XX/XX

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	WESTERN NEW YORK & PENNSYLVANIA RAILROAD		
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GATE 5 CIRCUIT PLAN		DRAWING NUMBER	



AS WIRED XX/XX/XX

AS INSTALLED XX/XX/XX

NOTES:

1. ALL WIRING THIS SHEET TO BE #10 AWG, UNLESS OTHERWISE NOTED.
2. = TWISTED WIRE - 2 TURNS PER FOOT.
3. ALL 110 VOLT TERMINALS TO BE COVERED OR TO USE INSULATED NUTS.

DIAMONDBACK SIGNAL

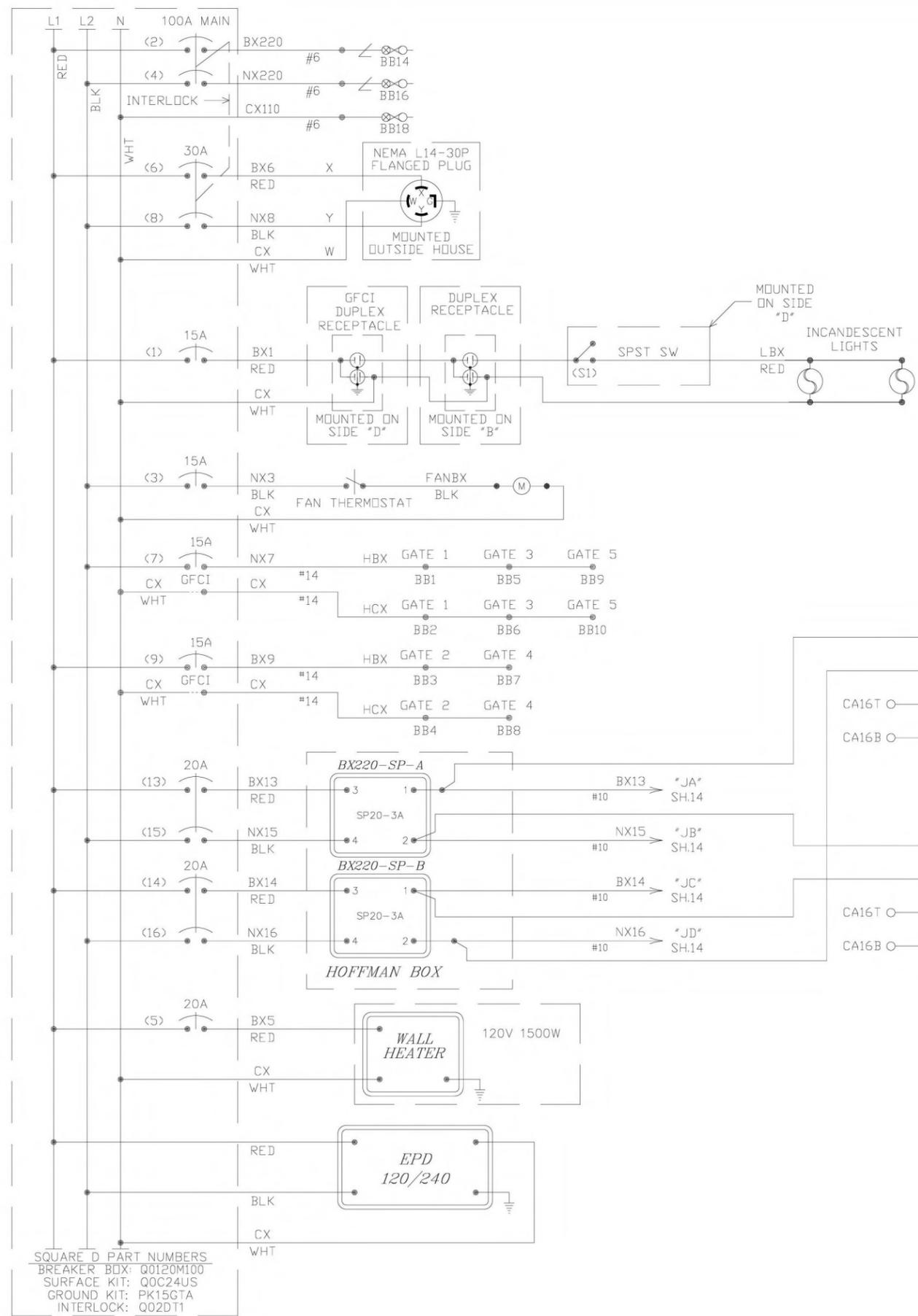
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21784

WESTERN NEW YORK & PENNSYLVANIA RAILROAD

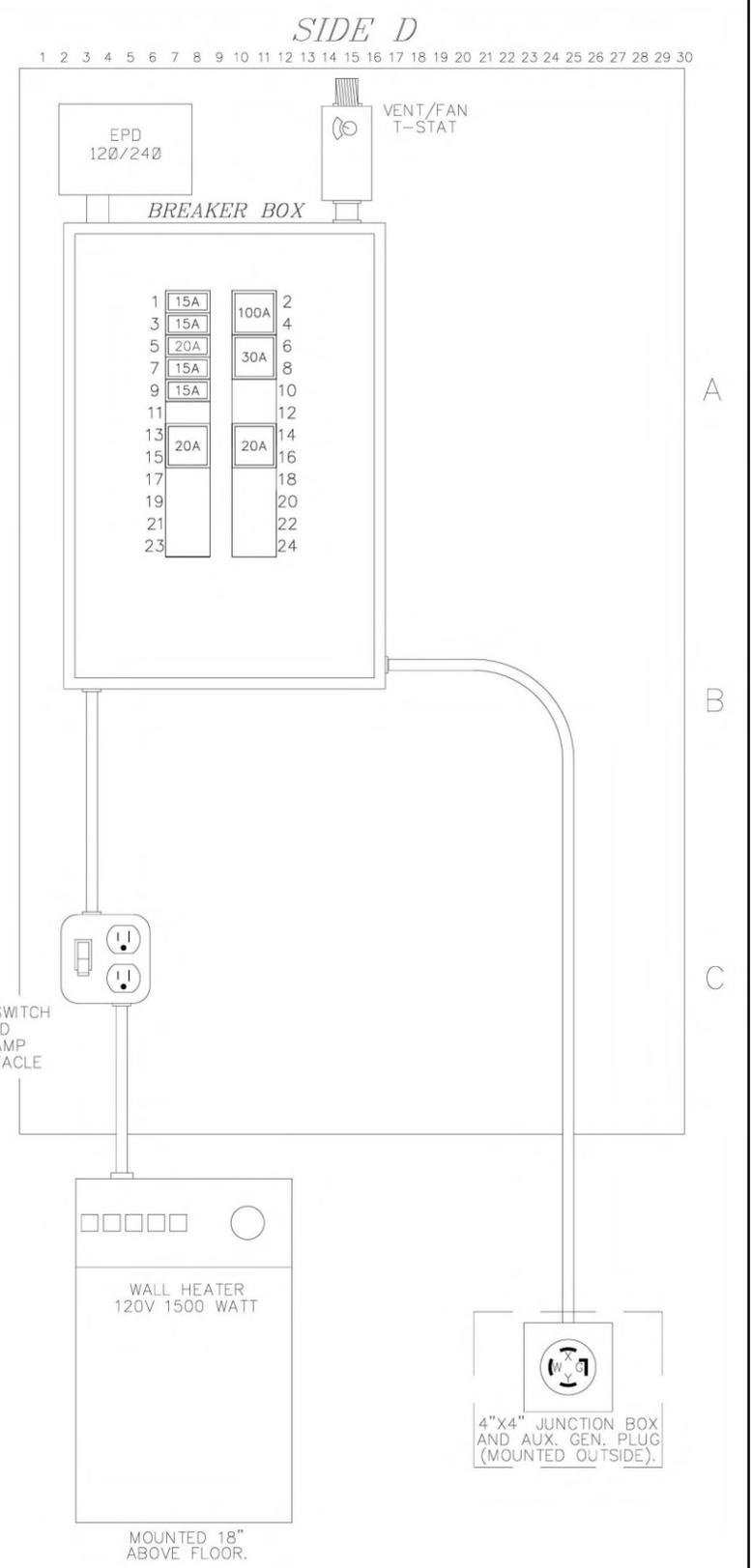
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FRANKLIN, VENANGO COUNTY, PA		

DC POWER DISTRIBUTION

DRAWING NUMBER



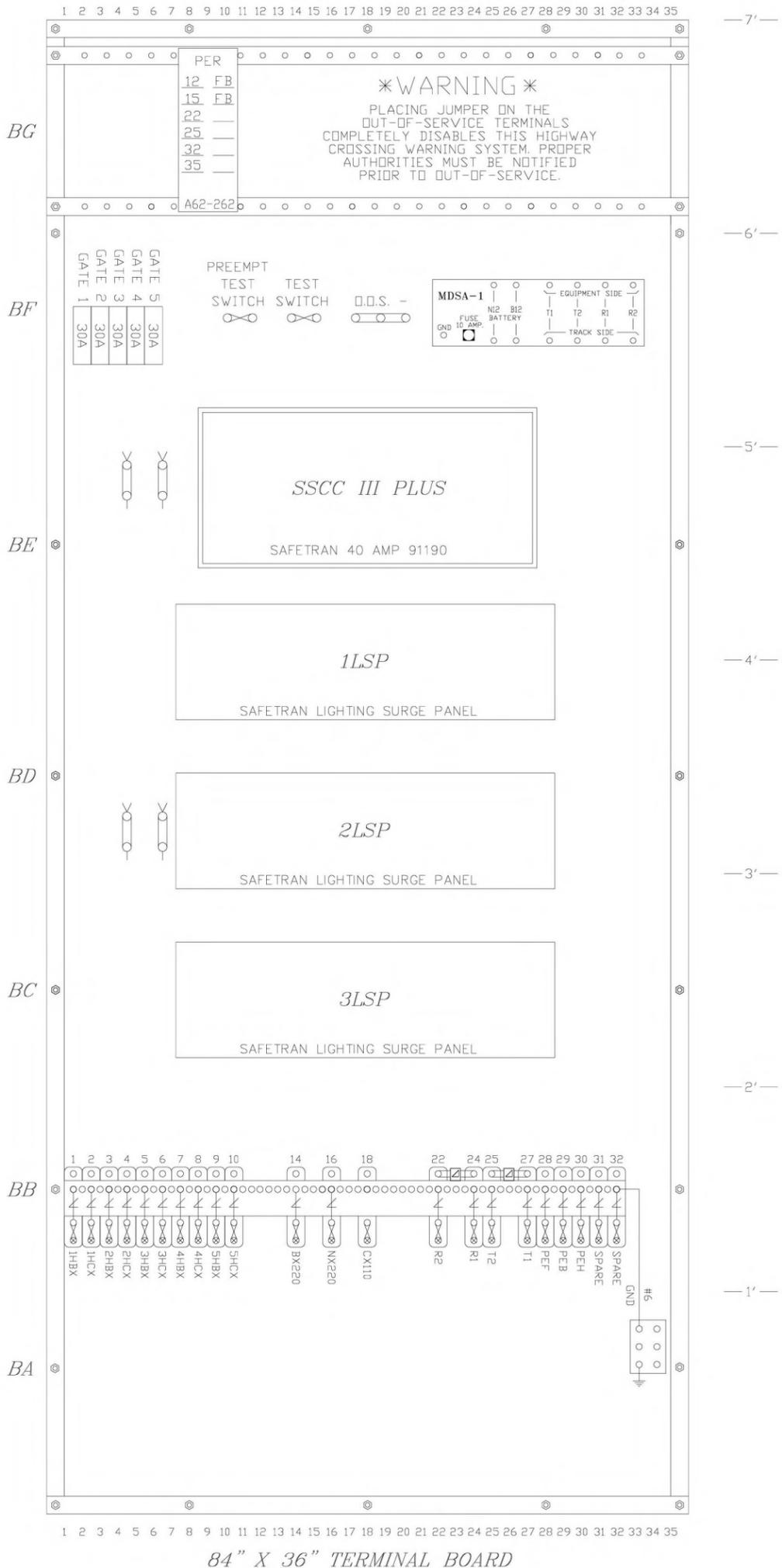
- NOTES:
- USE THE FOLLOWING COLOR CODE:
 GRN - GREEN - SAFETY EQUIPMENT GROUND
 WHT - WHITE - CX110 (NEUTRAL)
 BLK - BLACK - NX220 (L2)
 RED - RED - BX220 (L1)
 - WIRE NUT
 - MINIMUM WIRE SIZE
 10 AMP - NO. 14 AWG THHN OR THWN SOLID
 20 AMP - NO. 12 AWG THHN OR THWN SOLID
 30 AMP - NO. 10 AWG THHN OR THWN SOLID
 - GROUND FAULT INTERRUPT (GFCI) MUST BE USED ON ALL CIRCUITS SERVING CONVENIENCE OUTLETS AND ANY EQUIPMENT OUTSIDE THE BUNGALOW. RECEPTACLE MOUNTED OUTSIDE GFCI MAY BE USED INSTEAD OF BREAKER TYPE.
 - ISOLATION TRANSFORMER IF INSTALLED. JUMPER WIRES BLK TO BLK/RED WITH NX7 (BLK)
 - ALL GROUND WIRES RUN TO BREAKER BOX GROUND BUSS



SQUARE D PART NUMBERS
 BREAKER BOX: Q0120M100
 SURFACE KIT: Q0C24US
 GROUND KIT: PK15GTA
 INTERLOCK: Q02D11

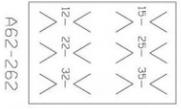
DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED XX/XX/XX AS INSTALLED XX/XX/XX	
	WESTERN NEW YORK & PENNSYLVANIA RAILROAD	
	SCALE: NONE DATE: 11/01/2024	APPROVED BY: DRAWN BY: NST REVISED:
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AC POWER DISTRIBUTION		DRAWING NUMBER

TERMINAL BOARD FRONT VIEW



RELAY CROSS REFERENCE

ALSTOM	SIEMENS
A62-262	4000000



AS WIRED XX/XX/XX

AS INSTALLED XX/XX/XX

DIAMONDBACK SIGNAL
 (410) 795-9601
 5965 EXCHANGE DRIVE
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 SYKESVILLE, MD 21784

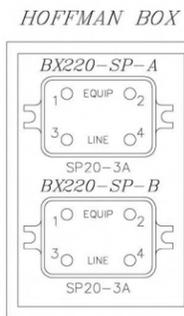
WESTERN NEW YORK & PENNSYLVANIA RAILROAD
 APPROVED BY: _____
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 DATE: 11/01/2024

13TH ST. (SR 322) - DOT # 262 836S - MP OC 24.77
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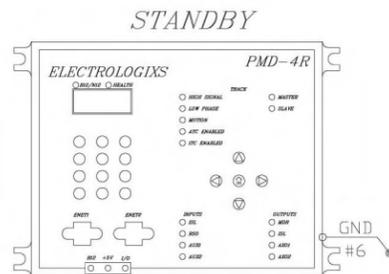
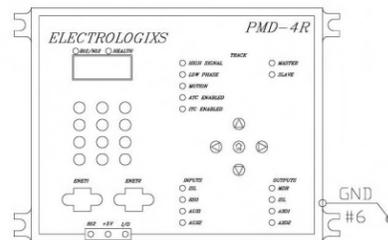
TERMINAL BOARD LAYOUT
 DRAWING NUMBER

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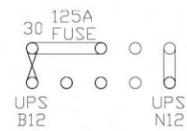
"AA"



"AB"



"AC"



12 VOLT
250AH AGM
UPS
BATTERY

12 VOLT
250AH AGM
UPS
BATTERY

BATTERY TRAY
HOUSE FLOOR
SIDE "A"

AS WIRED XX/XX/XX AS INSTALLED XX/XX/XX

DIAMONDBACK SIGNAL

(410) 795-9601
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WESTERN NEW YORK &
PENNSYLVANIA RAILROAD

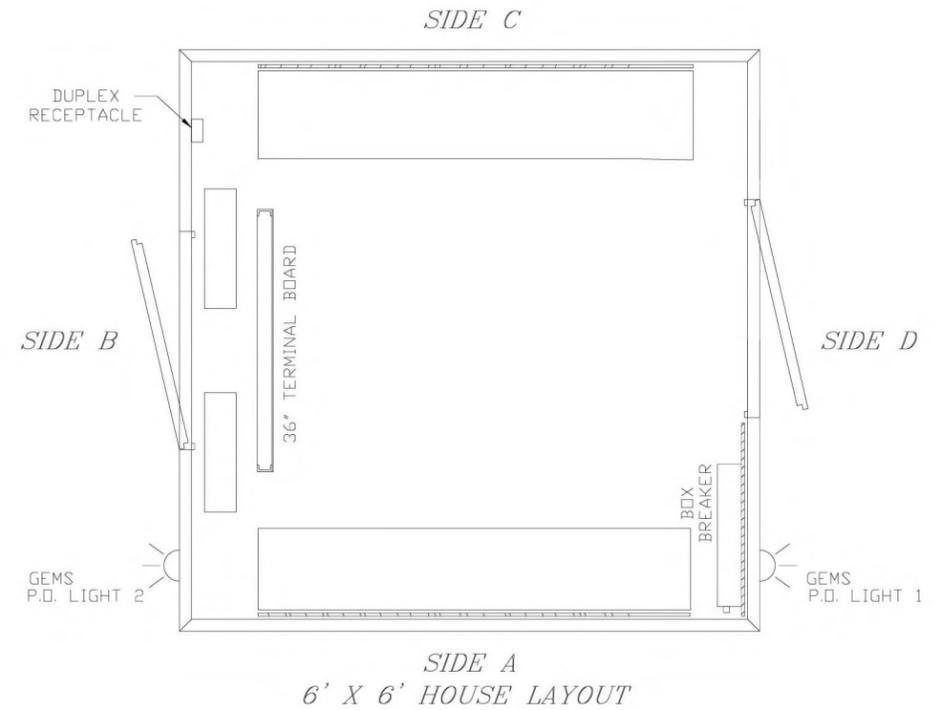
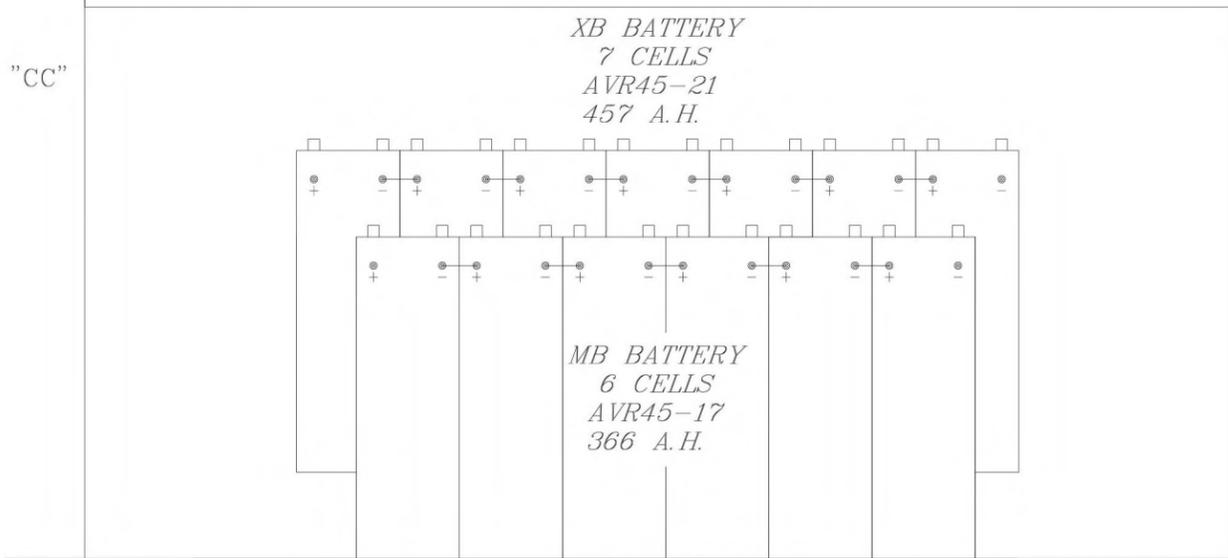
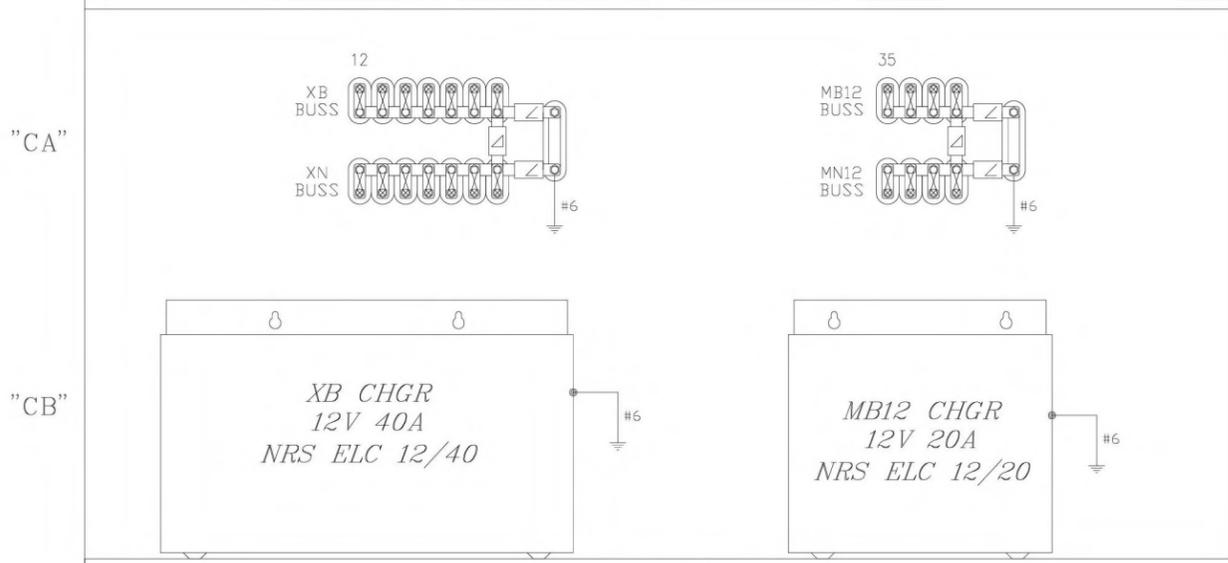
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WALL A LAYOUT

DRAWING NUMBER

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49



AS WIRED XX/XX/XX AS INSTALLED XX/XX/XX

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	SCALE: NONE DATE: 11/01/2024	APPROVED BY: _____	DRAWN BY: NST REVISED:
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