



January 15, 2025

Rosemary Chiavetta, Secretary
Pennsylvania Public Utility Commission
400 North Street
Harrisburg, PA 17120

Re: PUC No. A-2024-3051778

Dear Secretary Chiavetta:

In accordance with ordering paragraph number 3 of PUC Secretarial Letter at Docket No. A-2024-3051778 dated January 9, 2025, please find attached for your approval a copy of the Situation and Circuitry Plans.

The Department of Transportation hereby avers that a complete set of the aforesaid Situation and Circuitry Plans are being sent to the following parties of record for examination in accordance with the attached Certificate of Service.

We respectfully request the approval of these plans and the subsequent issuance of a PUC Order or a Secretarial Letter. Should you have any questions or concerns, please feel free to contact me at 814.673.6117.

Sincerely,

Mohammad Arghoshi
Grade Crossing Engineer
Engineering District 1-0
Department of Transportation

Attachments

cc: Parties of Record
M. J. Chappell, P.E., Chief, Right-of-Way, Utilities, and Grade Crossing Division
Karen L. Cummings, Senior Counsel, Office of Chief Counsel
William M. Sinick, P.E., Supervisor, Rail Safety Engineering Section, PUC

Engineering District 1-0

255 Elm Street | Oil City, PA 16301 | 814.678.7015 | www.penndot.pa.gov

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Application of the Department of Transportation of the Commonwealth of Pennsylvania for approval to upgrade the public at grade crossing by the installation of new active traffic control devices where State Route 322 (13th Street) crosses at-grade the track(s) of Western New York & Pennsylvania Railroad DOT # 262 836S, located in the City of Franklin, Venango County *all in accordance with the Federal Grade Crossing Program* and the allocation of costs incident thereto.

Application
Docket No. A-2024-3051778

Electronically Filed

CERTIFICATE OF SERVICE

I hereby certify that I have this day served a true copy of the foregoing document upon the participants listed below by electronic email, in accordance with Emergency Order at M-2020-3019262.

Corey Zeh, General Manager
Western New York and Pennsylvania Railroad
3146 Constitution Avenue
Olean, NY 14760
corey.zeh@lalrr.com

Kyle Boehme
Norfolk Southern
Administrator, Grade Crossing Program
650 W. Peachtree Street NW, Box 41
Atlanta, GA 30308
Kyle.Boehme@nscorp.com

James Wetzel
City Manager
430 Thirteenth Street
Franklin, PA 16323
jwetzel@franklinpa.gov

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Charter Communications
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COMMUNICATIONS (CTV)
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Stephen Putt
Everstream Solutions LLC (F/O)
111 S. Independence Mall E, Suite
608
Philadelphia, PA. 19106
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Jason Fleek
National Fuel Gas Distribution
Corporation
6363 Main Street, Williamsville,
NY 14221
fleekj@natfuel.com

Eric Rodrigues
Verizon North LLC
20 East Tenth Street, Erie, PA 16501
eric.rodrigues@verizon.com

Sam Breene, Chairman
Venango County
1174 Elk Street
Courthouse Annex, 2nd Floor
Franklin, PA 16323
Sam.Breene@venangocountypa.gov

Nathan Smerker
Pennsylvania Electric Company
1600 West First Street, Oil City, PA
16301
nsmerker@firstenergycorp.com

Kurt McFadden
Franklin City Water
430 Thirteenth Street, Franklin, PA
16323
kmcfadden@franklinpa.gov

Blaise Bucha
Venango County Maintenance Manager
1460 Pittsburgh Road
Franklin, PA 16323
bbucha@pa.gov

Dated this 14th Day of January 2025

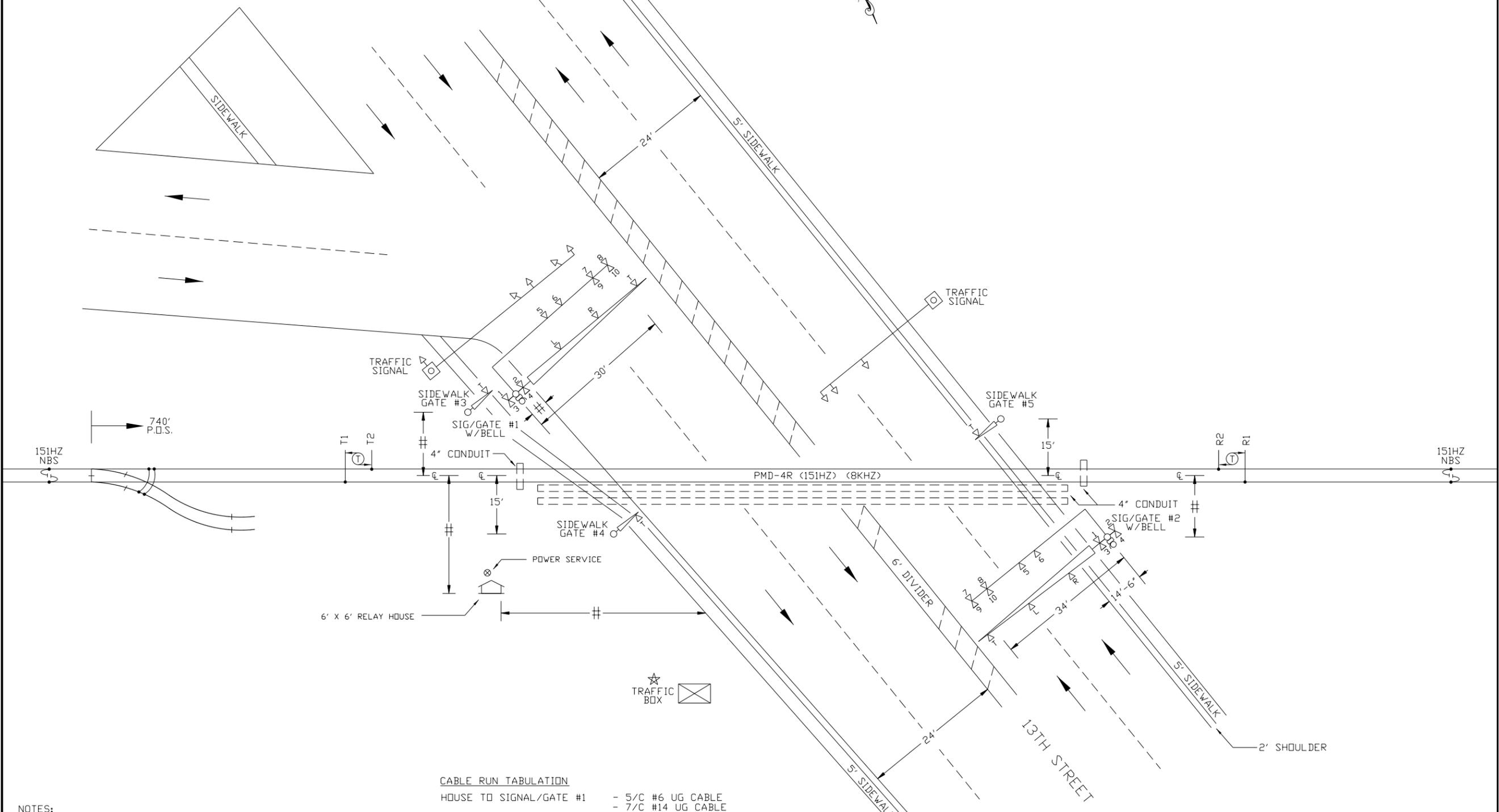
Mohammad Arghoshi
Grade Crossing Engineer
Engineering District 1-0
Department of Transportation
Phone: 814-673-6117

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)



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

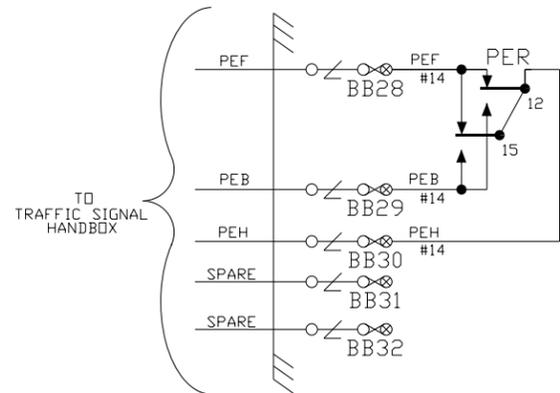
CABLE RUN TABULATION

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

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			
TRACK & CABLE PLAN			DRAWING NUMBER

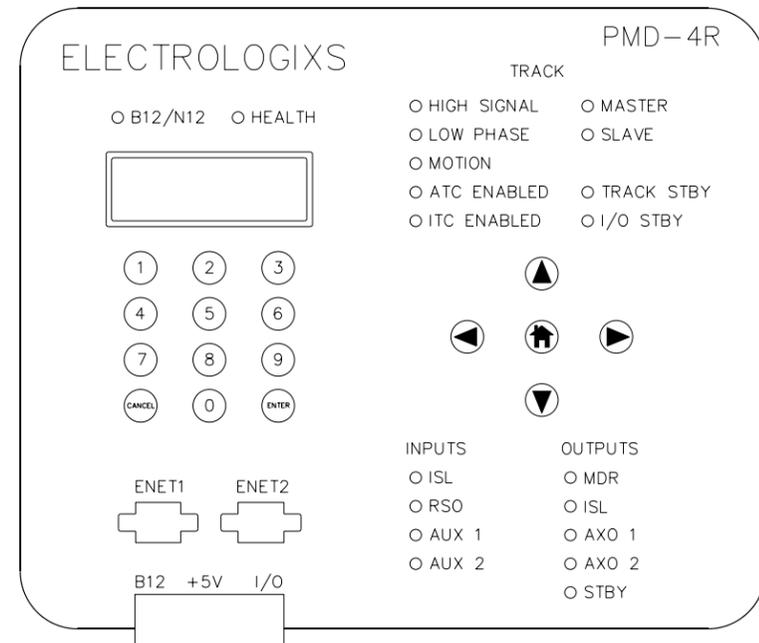
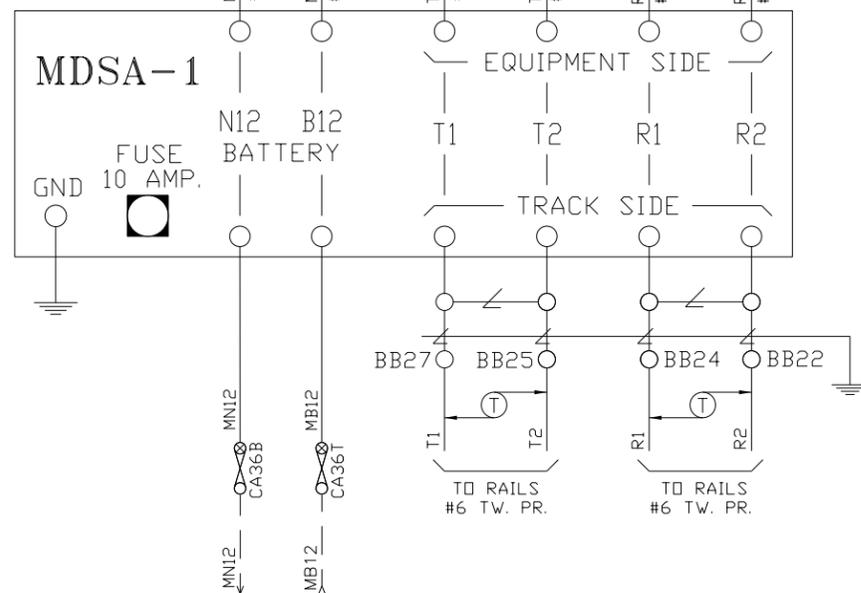
UPON THE APPROACH OF A TRAIN THE PER CONTACTS DROP 26 SECONDS PRIOR TO ACTIVATION OF THE RAILROAD FLASHERS/GATES



*** WARNING ***

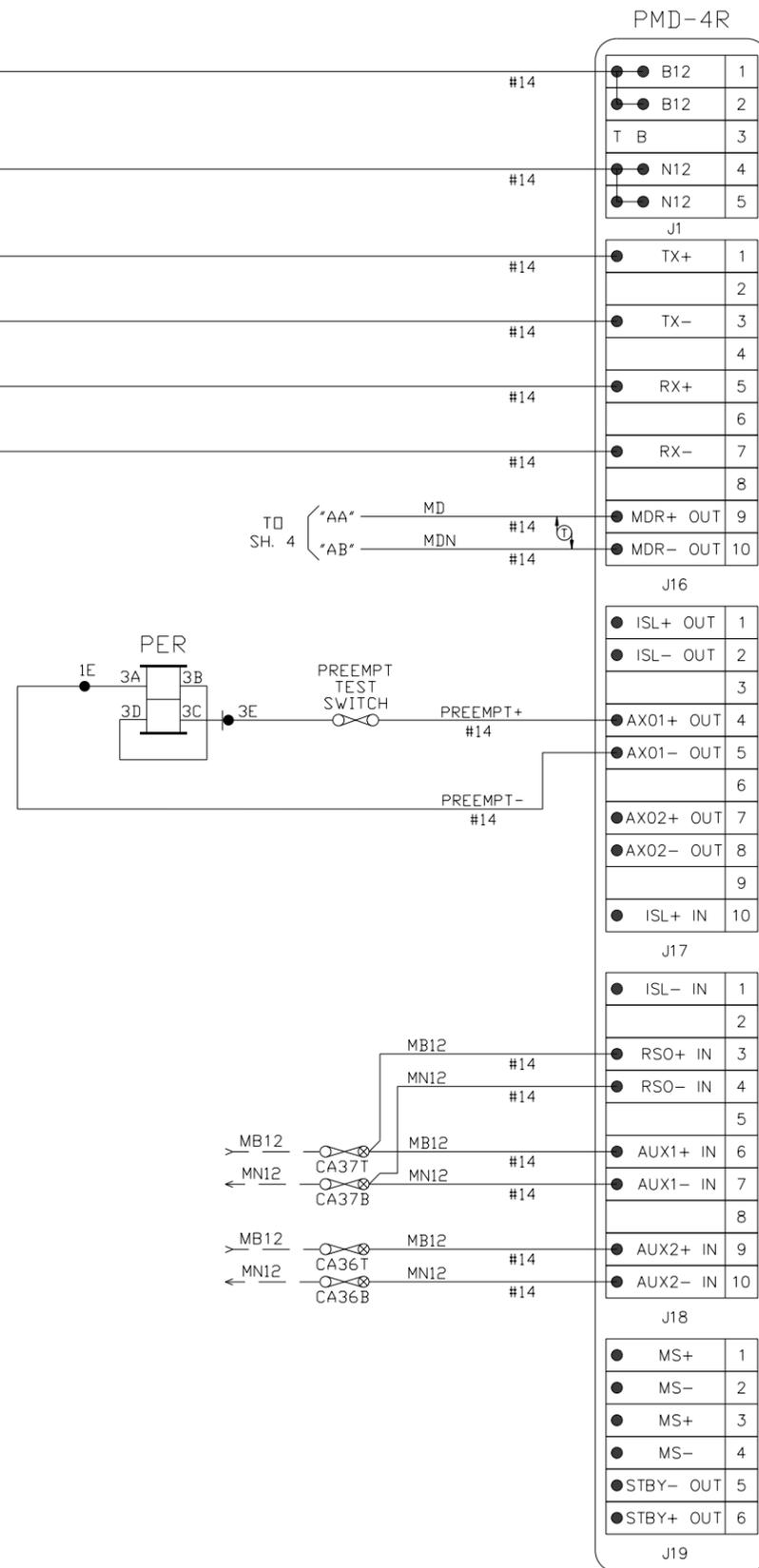
HIGHWAY-RAIL GRADE CROSSING WARNING SYSTEM AND HIGHWAY TRAFFIC SIGNALS ARE INTERCONNECTED.

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		DRAWING NUMBER PMD-4R

PMD-4R

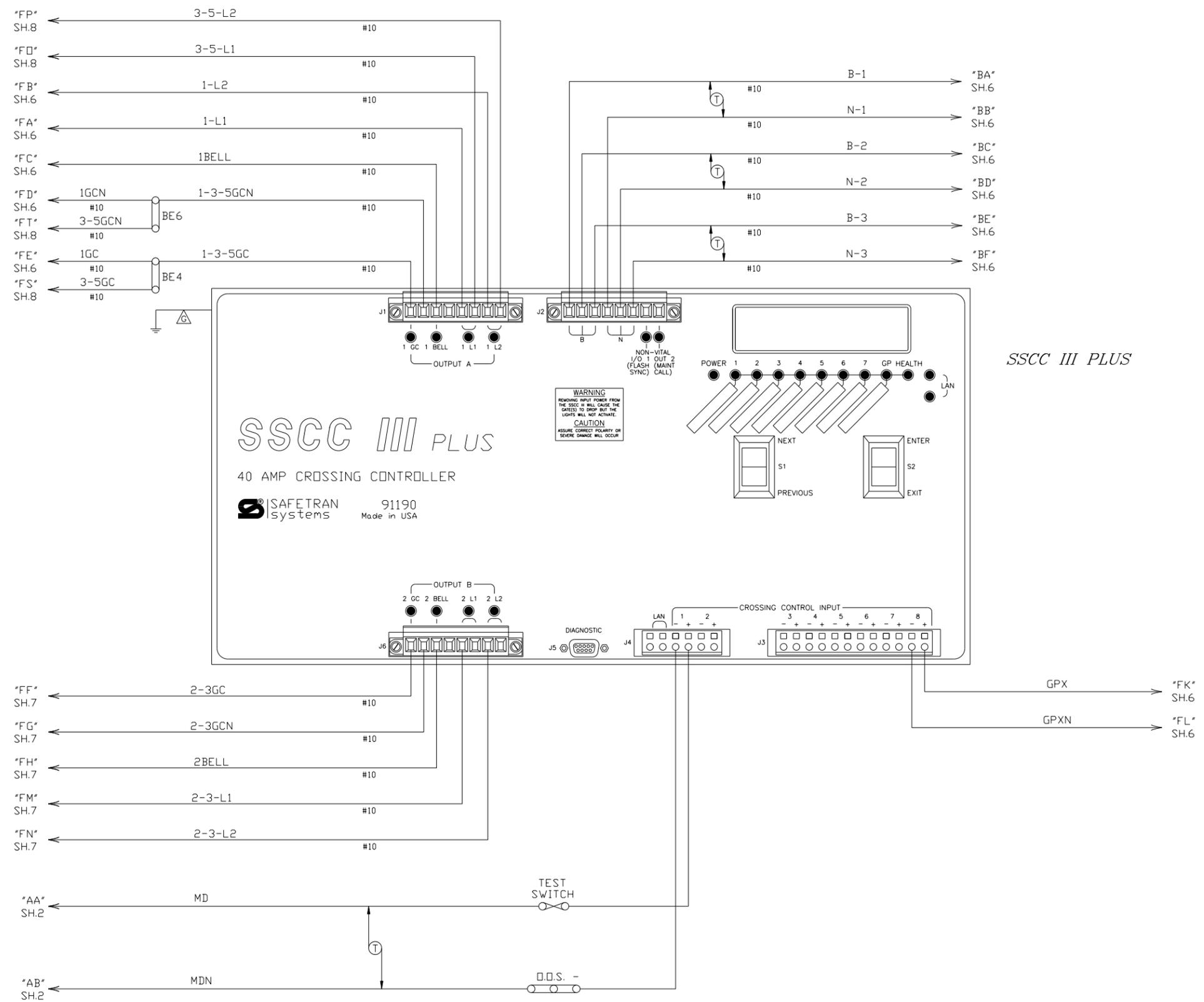
Parameter Name	Track_1
APPLICATION INFO	
APPLICATION	PMD-4R_CW[AP]
CHASSIS ID	4
MDR1	
WARNING TIME	30 SEC
CONSTANT WARNING/ MOTION DETECT MODE	CW
ADVANCE PREEMPTION TIME	26 SEC
AUX RECOVERY TIME	5 SEC
APPROACH SETTINGS	
APPROACH FREQUENCY	151 Hz
MASTER/SLAVE OPERATION	MASTER
TRANSMITTER GAIN	
TRANSMITTER 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:	DRAWN BY: NST
	DATE: 11/01/2024	REVISIONS:	
	13TH ST. (SR 322) - DOT # 262 836S - MP OC 24.77 FRANKLIN, VENANGO COUNTY, PA		
PROGRAM INFORMATION		DRAWING NUMBER	



SSCC III PLUS

40 AMP CROSSING CONTROLLER

SAFETRAN systems 91190 Made in USA

SSCC III PLUS

- 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	REVISID:		13TH ST. (SR 322) - DOT # 262 836S - MP OC 24.77
FRANKLIN, VENANGO COUNTY, PA			DRAWING NUMBER	
SSCC III PLUS				

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
GC2/17	GC2 normal, 17 = normal GC2 inverted, 17 = normal GC2 prmt relay, 17 = 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						

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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

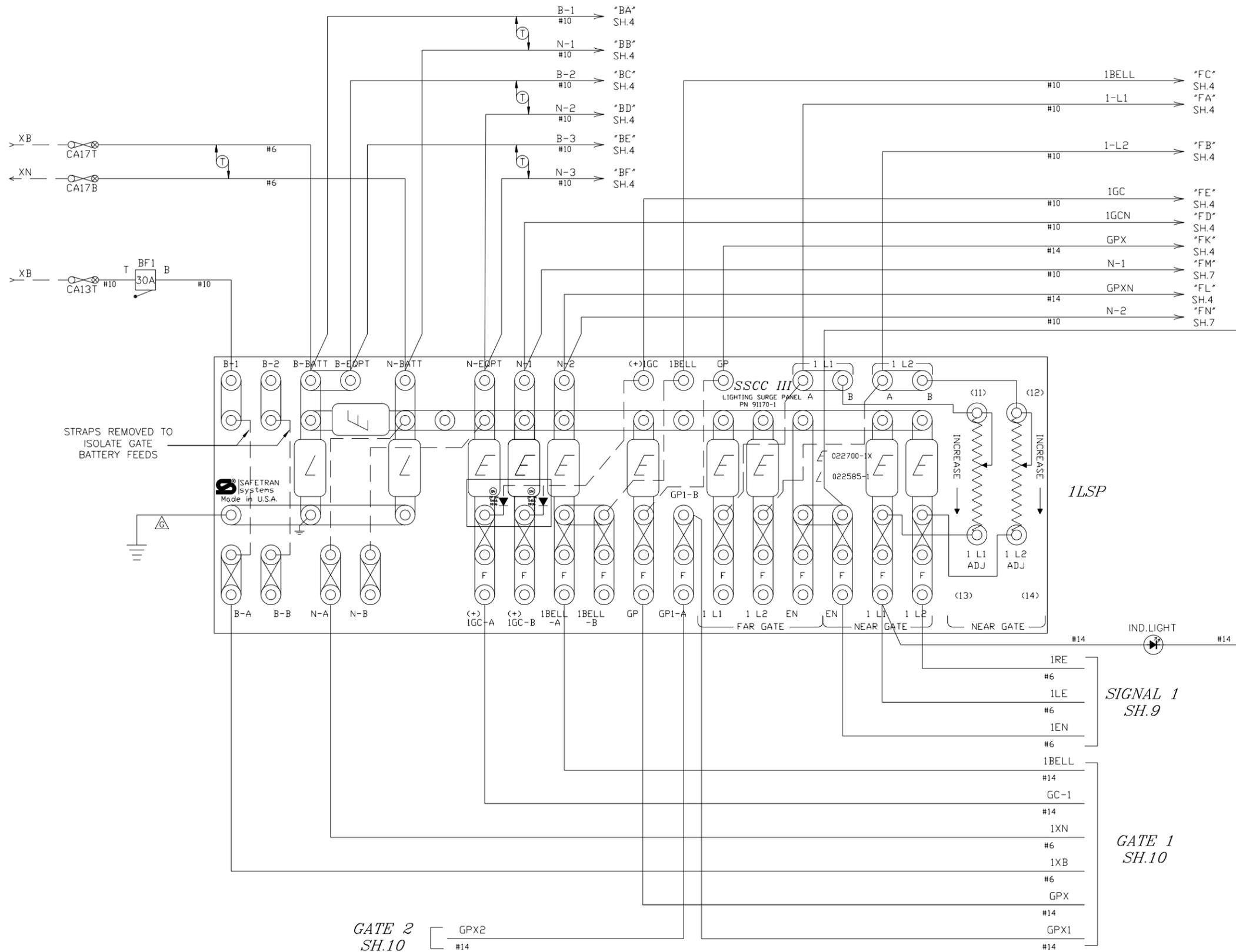
Battery Bank Voltages	Valid Lamp Output Range (in volts) [1]	Digital Meter (Fluke 87 or equivalent)	Analog Meter (Simpson 260 or TS111)
13.3	9.0 to 12.0	1.3 volts below actual value	0.6 volts below actual value
14.7	9.0 to 12.0	2.2 volts below actual value	1.1 volts below actual value
15.8	9.0 to 12.0	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.

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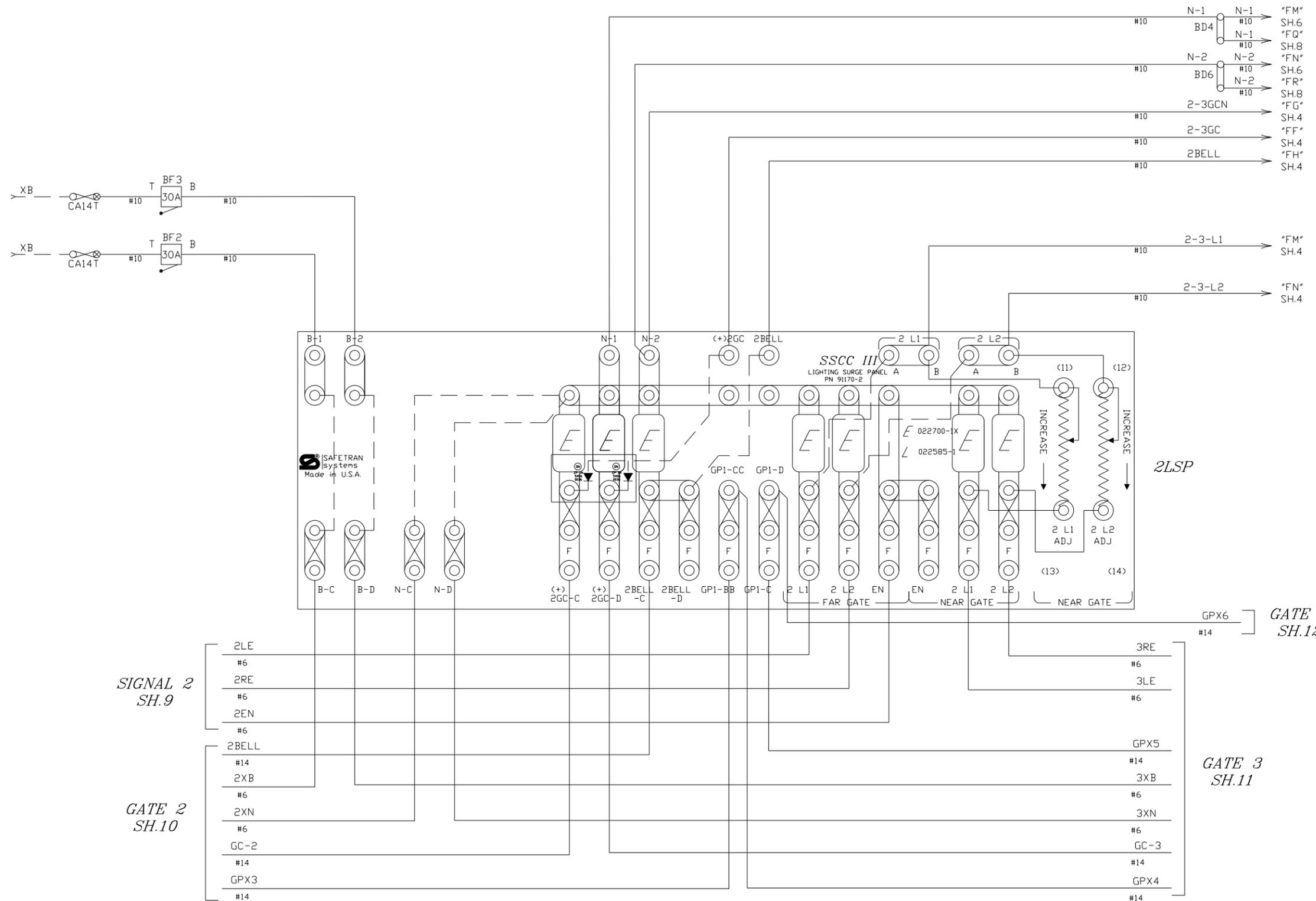
AS WIRED XX/XX/XX AS INSTALLED XX/XX/XX

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	
SSCC III PLUS PROGRAM CARD		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	APPROVED BY:	DRAWN BY: NST
	DATE: 11/01/2024	REVISION:	
	13TH ST. (SR 322) - DOT # 262 836S - MP OC 24.77 FRANKLIN, VENANGO COUNTY, PA		
AS WIRED XX/XX/XX		AS INSTALLED XX/XX/XX	
LSP-1		DRAWING NUMBER	



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

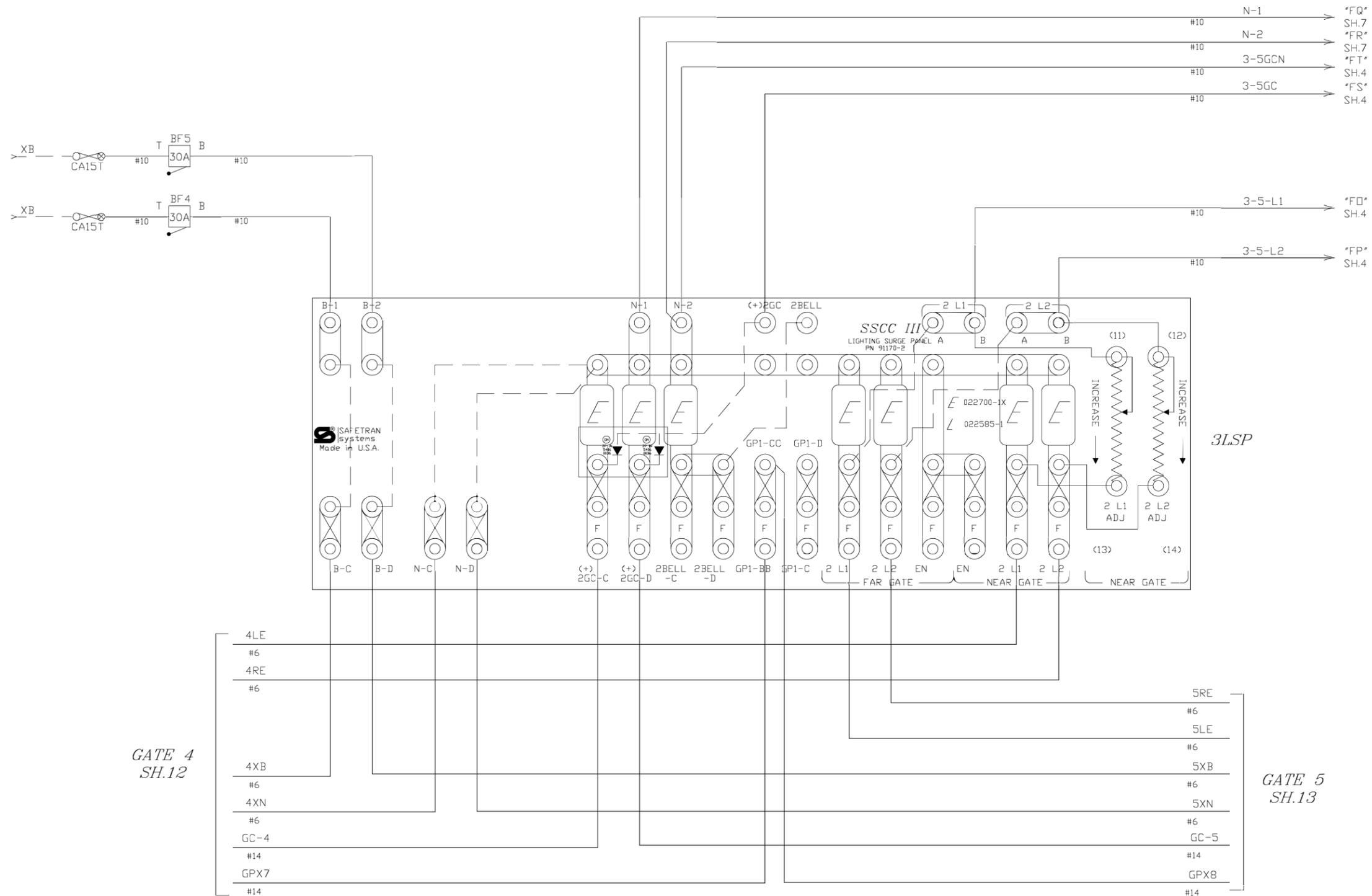
(410) 795-9601
5965 EXCHANGE DRIVE
SUITE "D"
SYKESVILLE, MD
21784

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-2

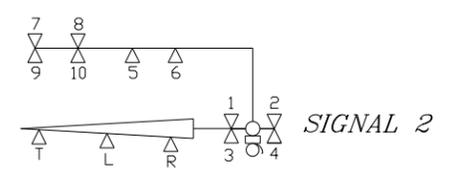
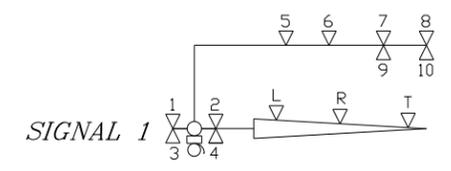
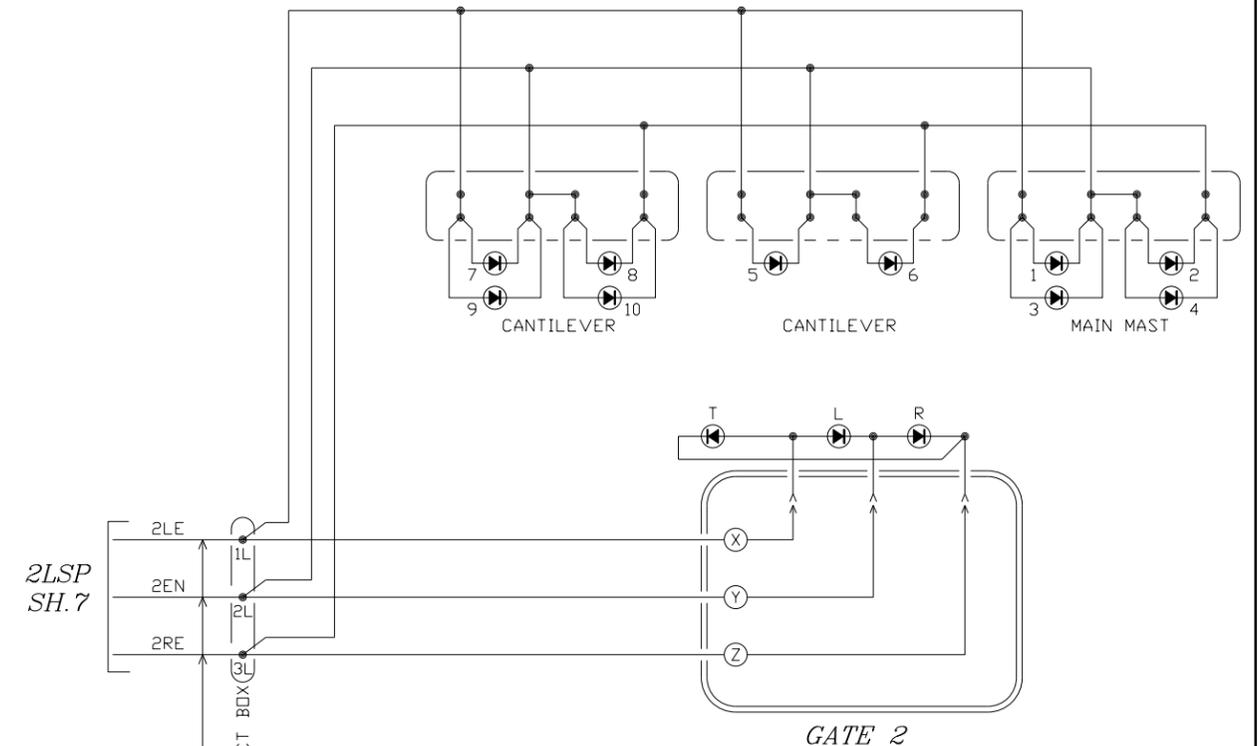
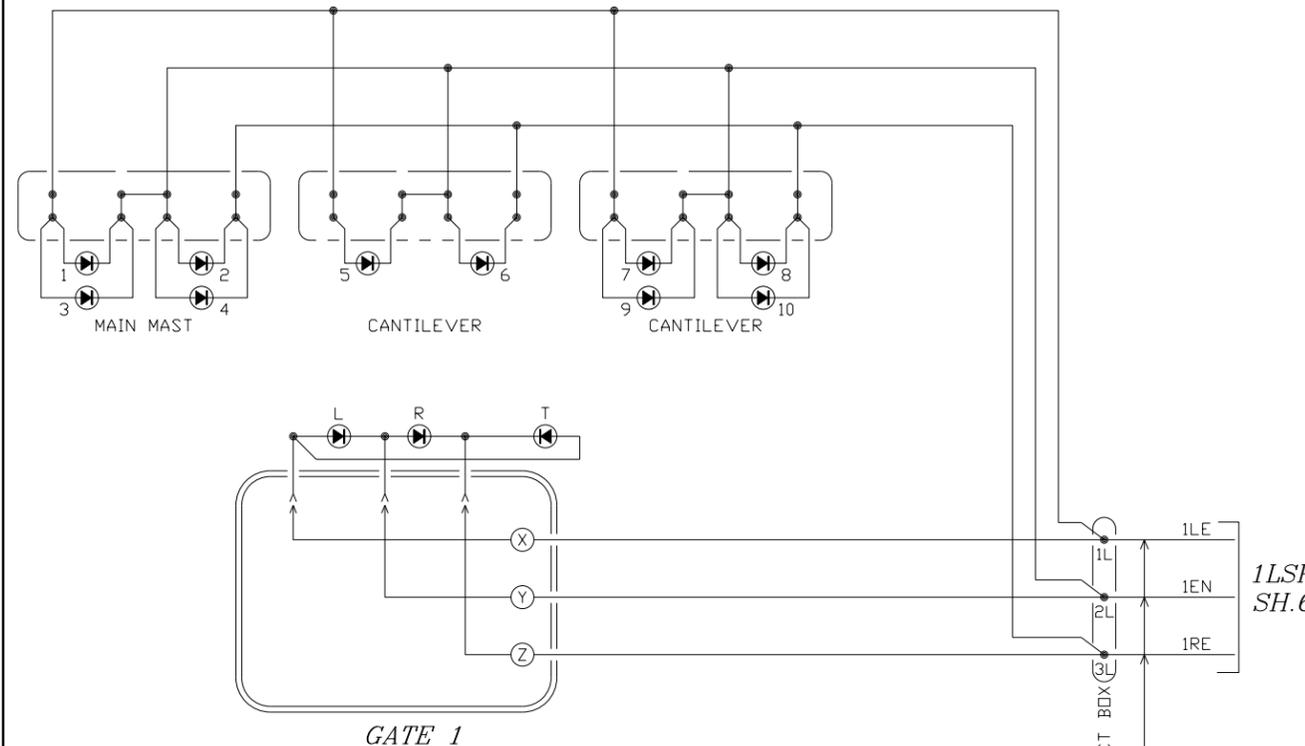
DRAWING NUMBER



- 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: _____ DRAWN BY: NST REVISED: _____
	13TH ST. (SR 322) - DOT # 262 836S - MP OC 24.77 FRANKLIN, VENANGO COUNTY, PA	
	LSP-3	DRAWING NUMBER

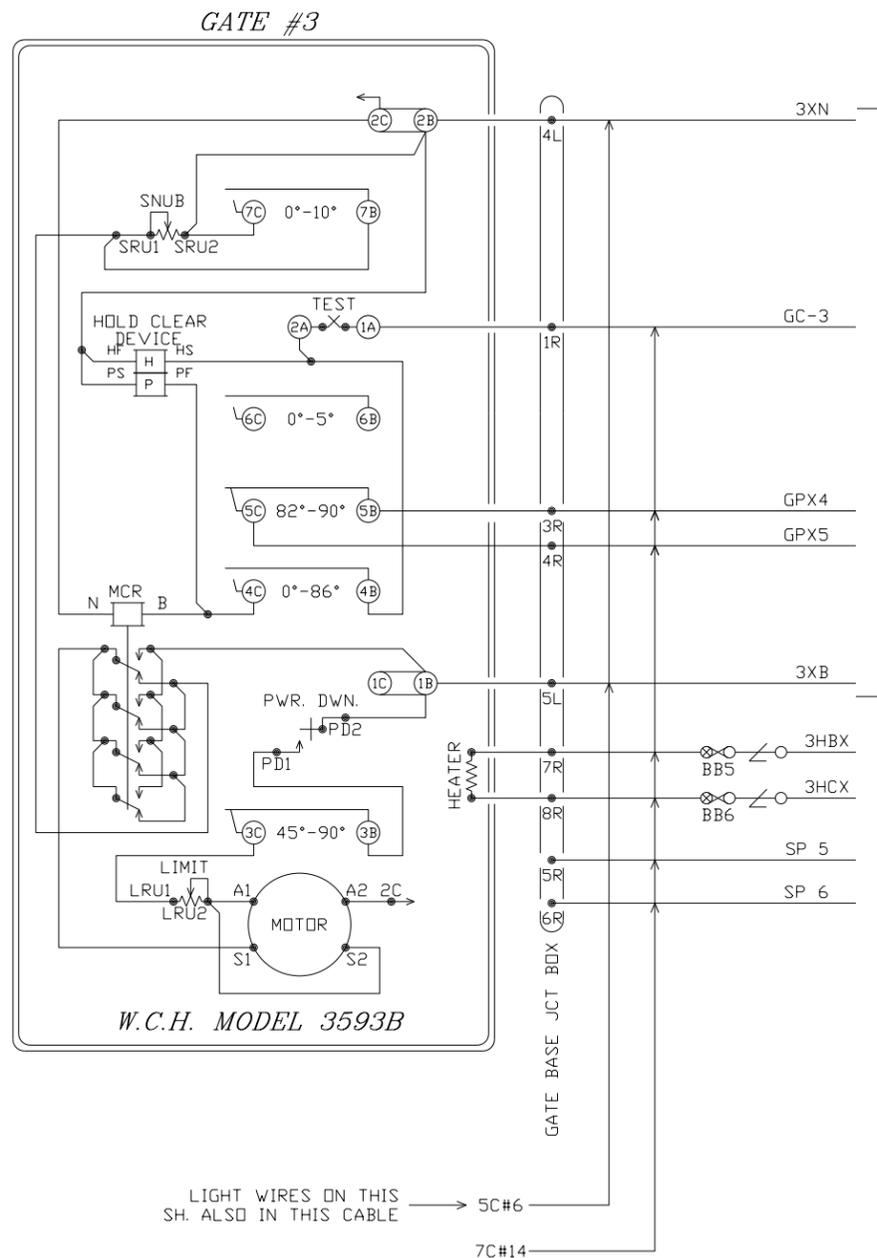
AS WIRED XX/XX/XX AS INSTALLED XX/XX/XX



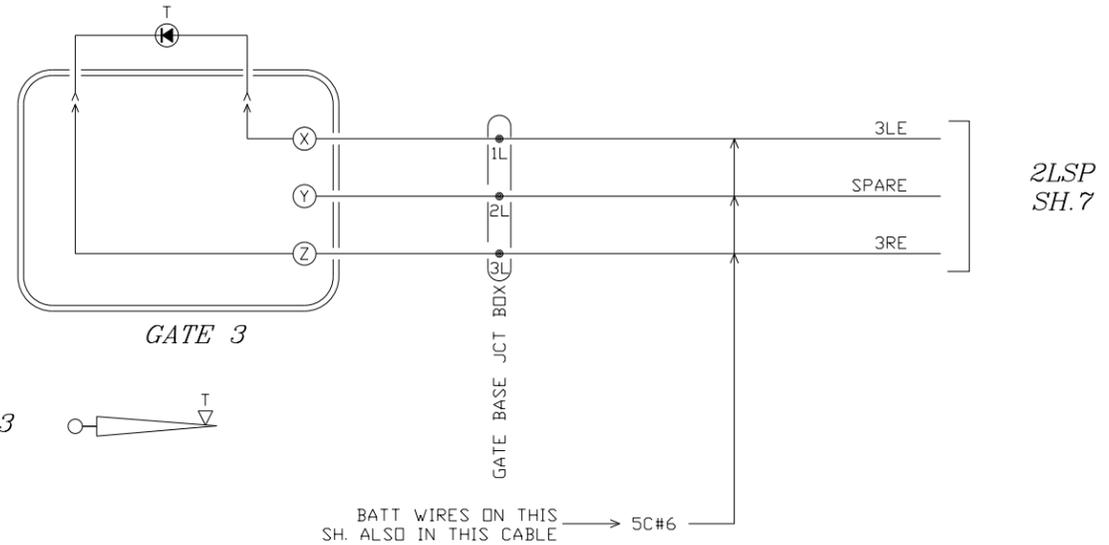
NOTES:
1. ALL WIRING TO BE #14 AWG UNLESS OTHERWISE NOTED.

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		
	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		DRAWING NUMBER
FLASHERS 1&2 CIRCUIT PLAN			



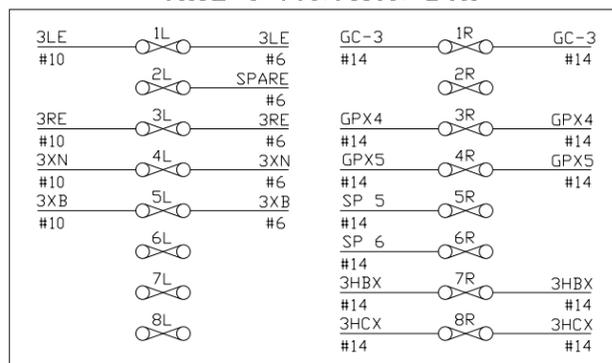
2LSP
SH.7



GATE 3

2LSP
SH.7

GATE 3 JUNCTION BOX



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

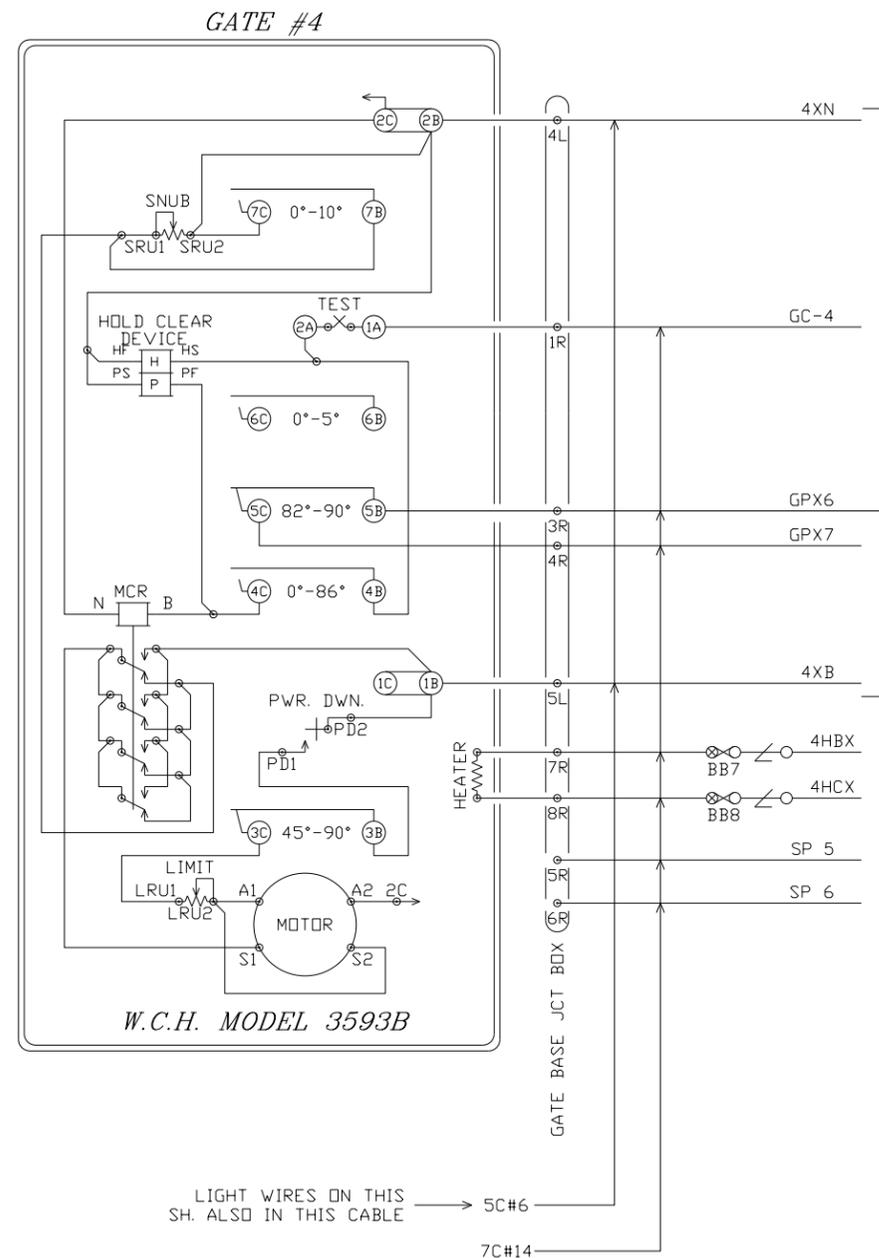
AS WIRED XX/XX/XX AS INSTALLED XX/XX/XX

DIAMONDBACK SIGNAL

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

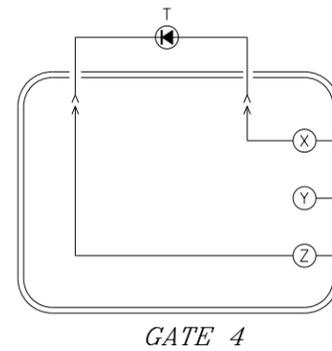
WESTERN NEW YORK &
PENNSYLVANIA RAILROAD

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DATE: 11/01/2024		REVISED:
13TH ST. (SR 322) - DOT # 262 836S - MP OC 24.77 FRANKLIN, VENANGO COUNTY, PA		
GATE 3 CIRCUIT PLAN		DRAWING NUMBER



3LSP
SH.8

2LSP
SH.7



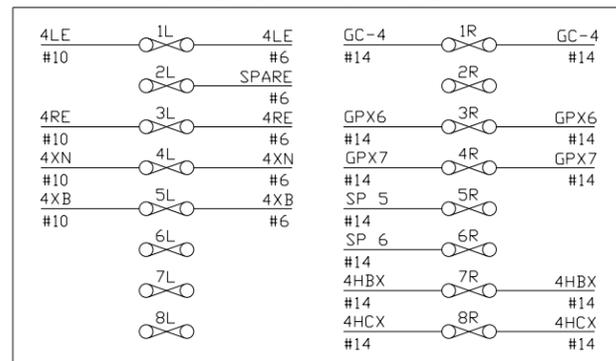
GATE 4

3LSP
SH.8

GATE 4

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

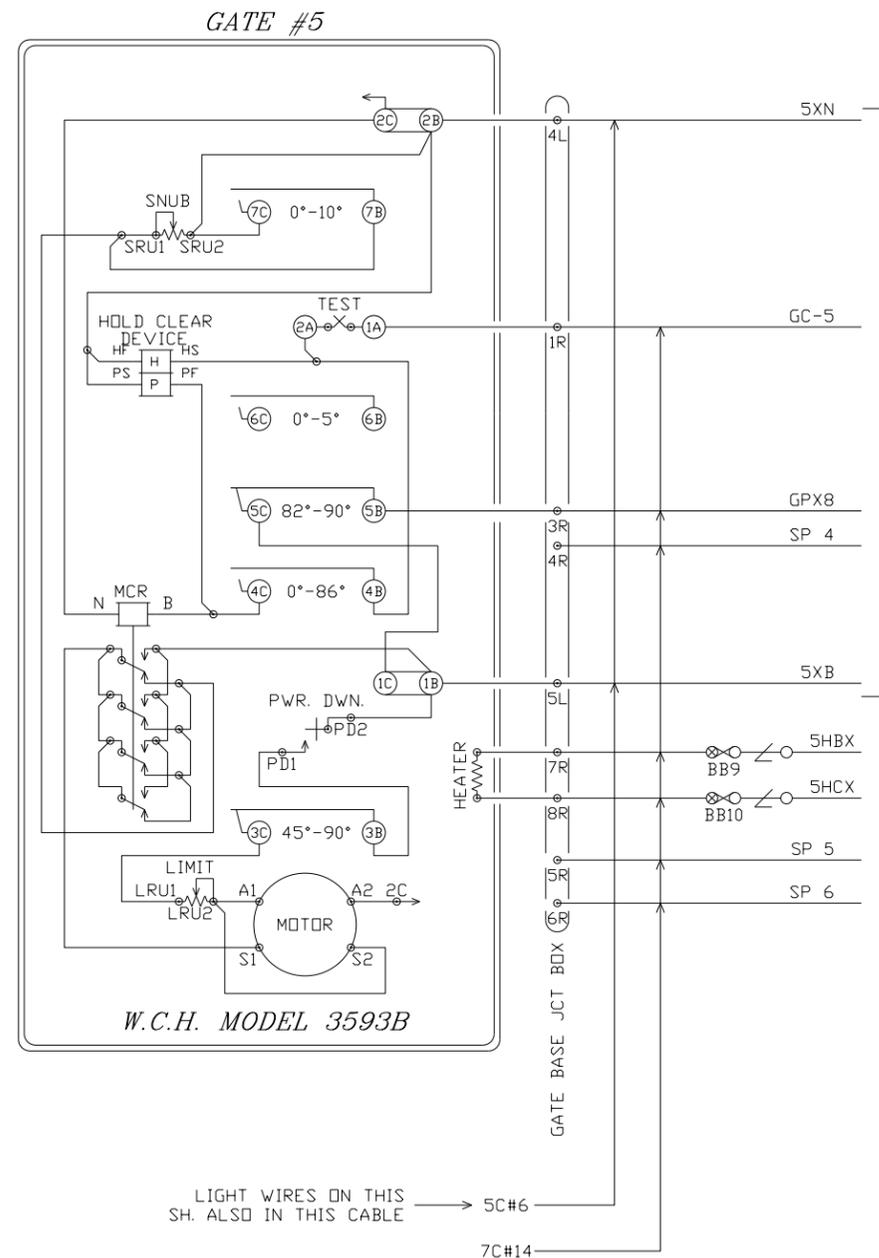
GATE 4 JUNCTION BOX



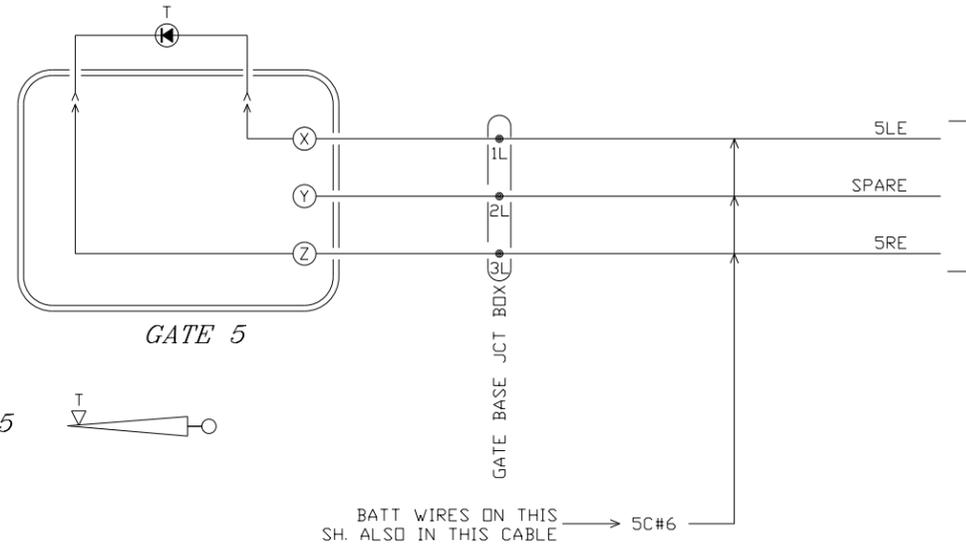
NOTES:
1. ALL WIRING TO BE #14 AWG UNLESS OTHERWISE NOTED.

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		
	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		
	GATE 4 CIRCUIT PLAN		DRAWING NUMBER

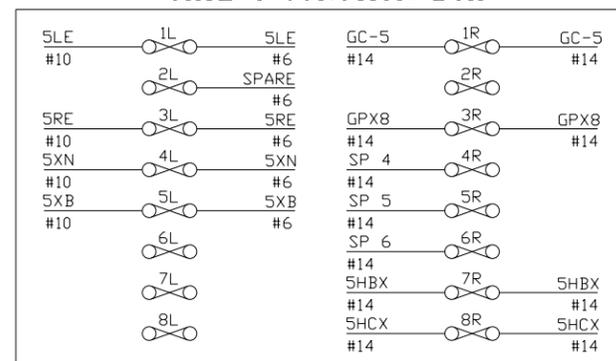


3LSP
SH.8



3LSP
SH.8

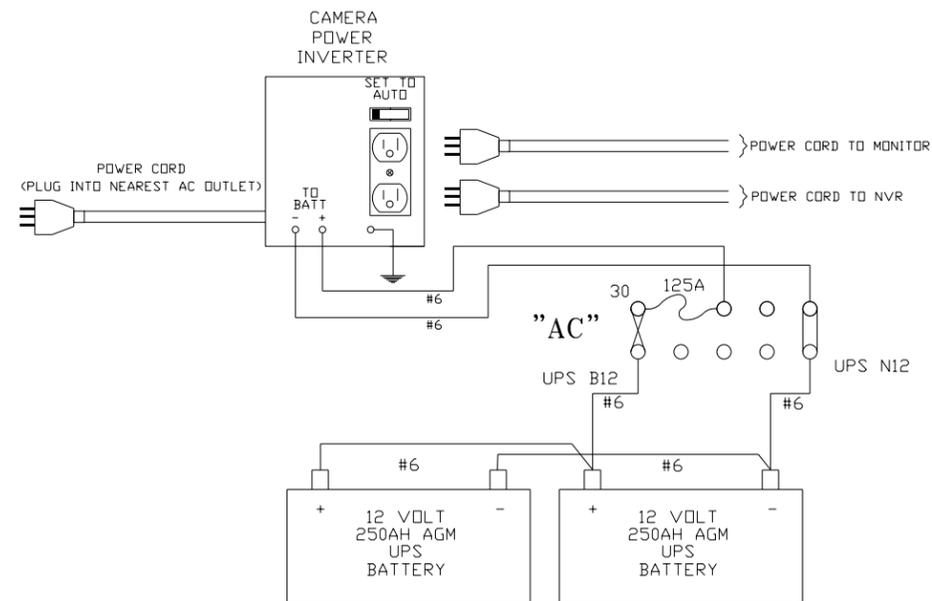
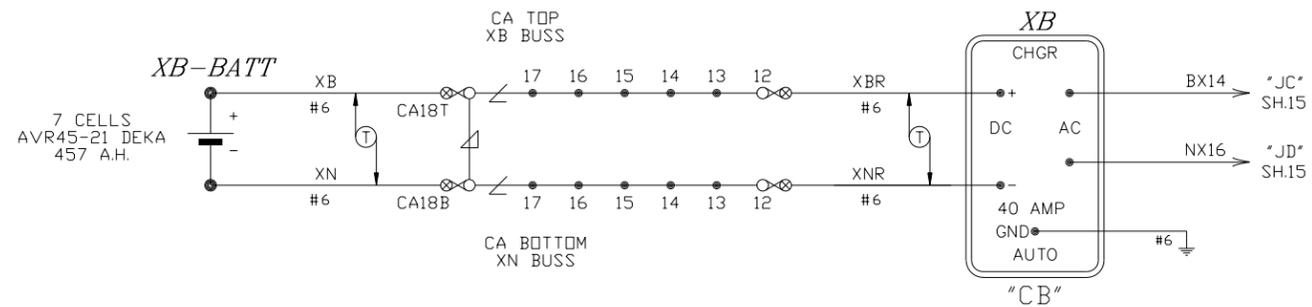
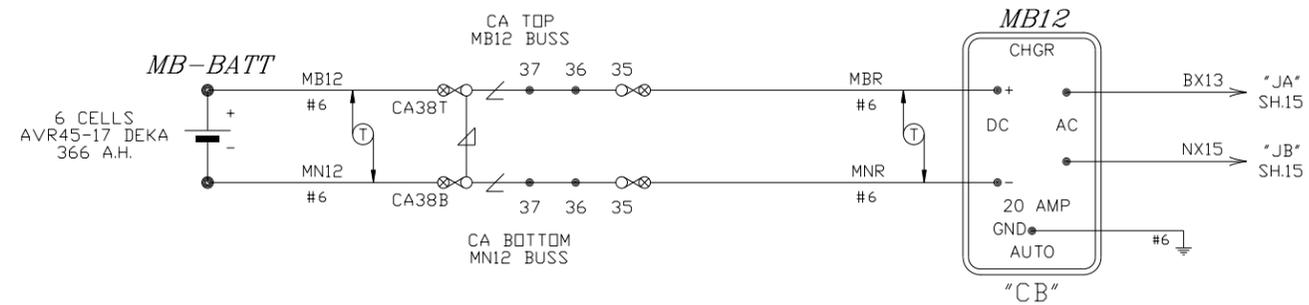
GATE 5 JUNCTION BOX



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		
	SCALE: NONE	APPROVED BY:	DRAWN BY: NST
	DATE: 11/01/2024	REVISID:	
	13TH ST. (SR 322) - DOT # 262 836S - MP OC 24.77		
FRANKLIN, VENANGO COUNTY, PA		DRAWING NUMBER	
GATE 5 CIRCUIT PLAN			



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

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

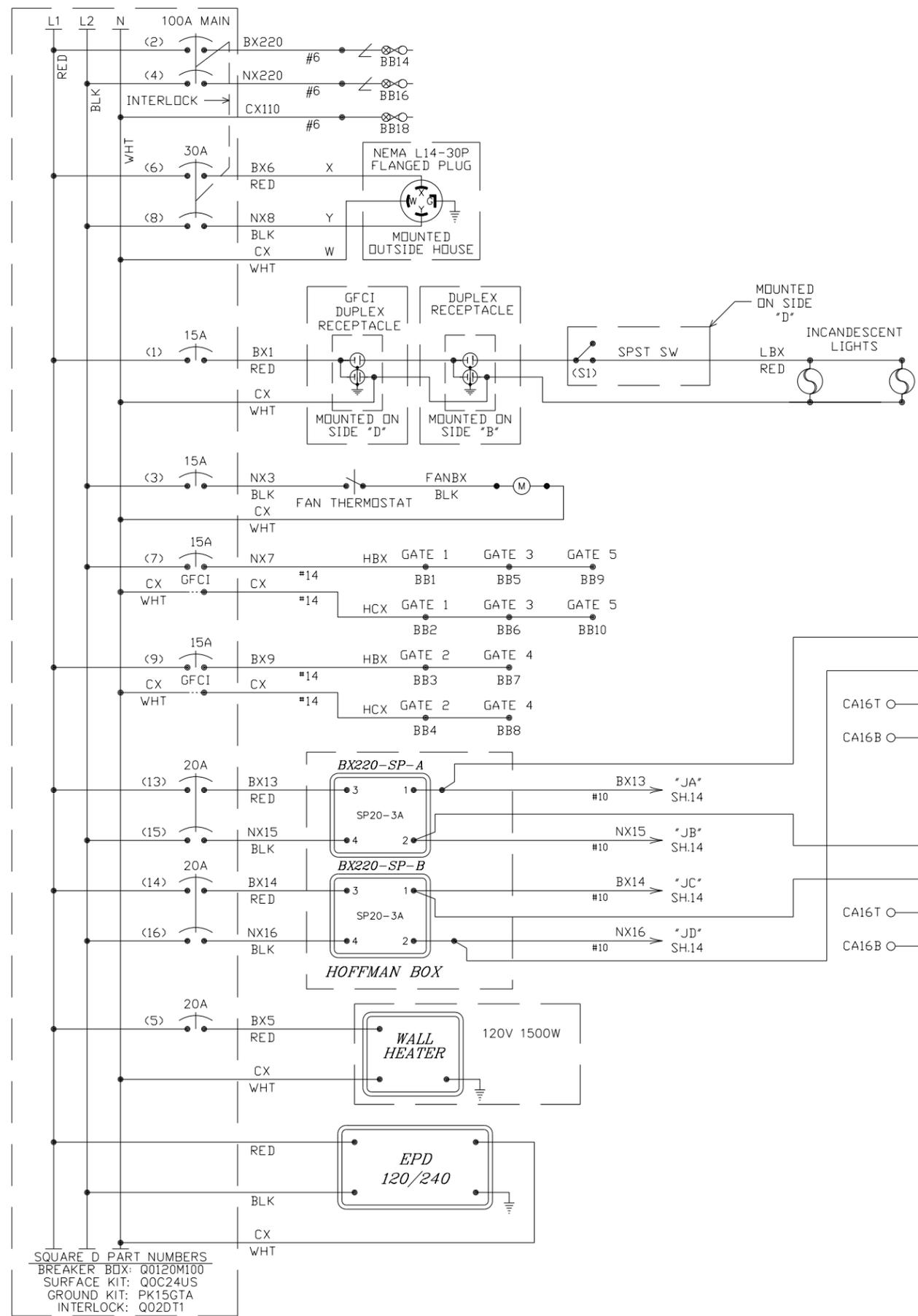
WESTERN NEW YORK & PENNSYLVANIA RAILROAD

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

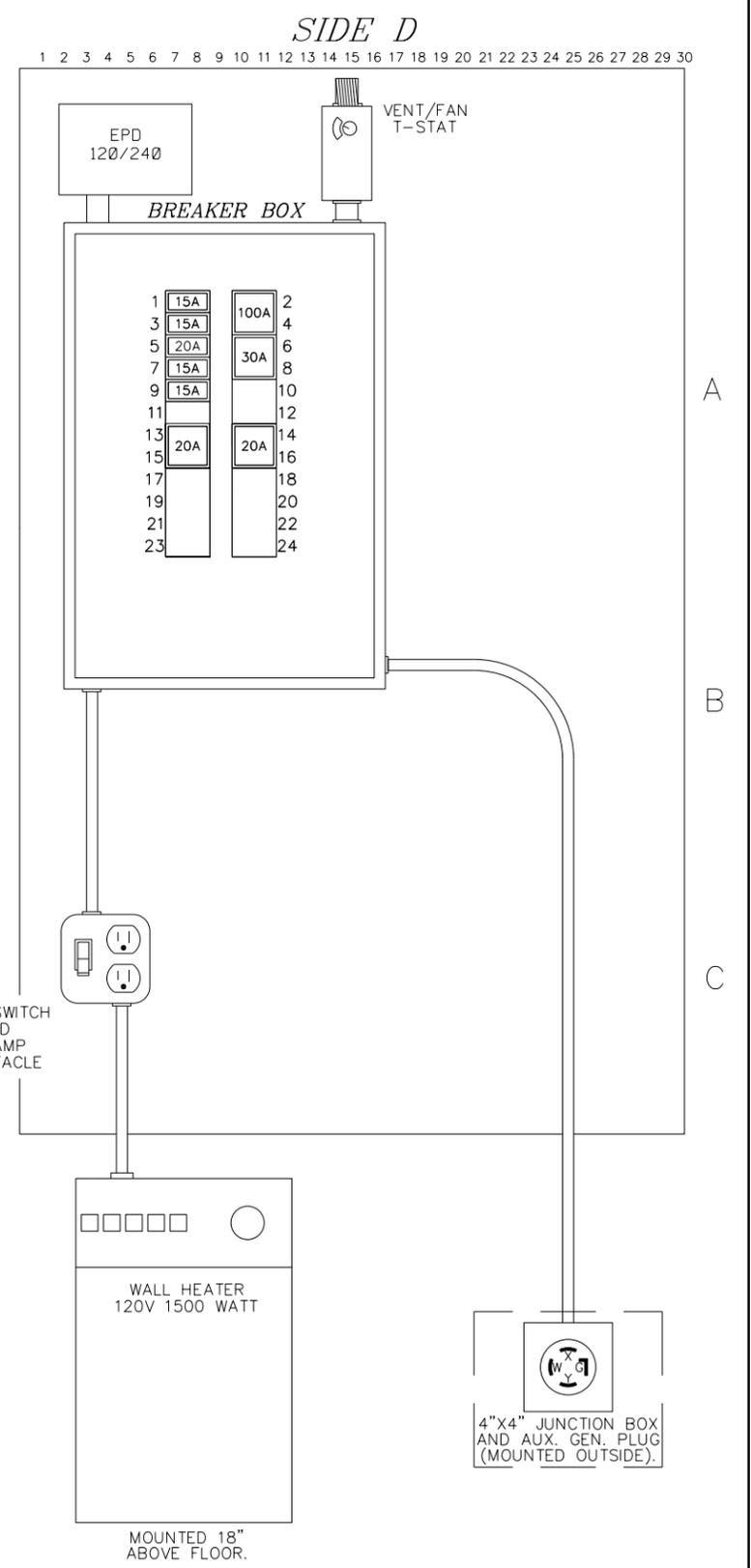
13TH ST. (SR 322) - DOT # 262 836S - MP OC 24.77
FRANKLIN, VENANGO COUNTY, PA

DC POWER DISTRIBUTION

DRAWING NUMBER



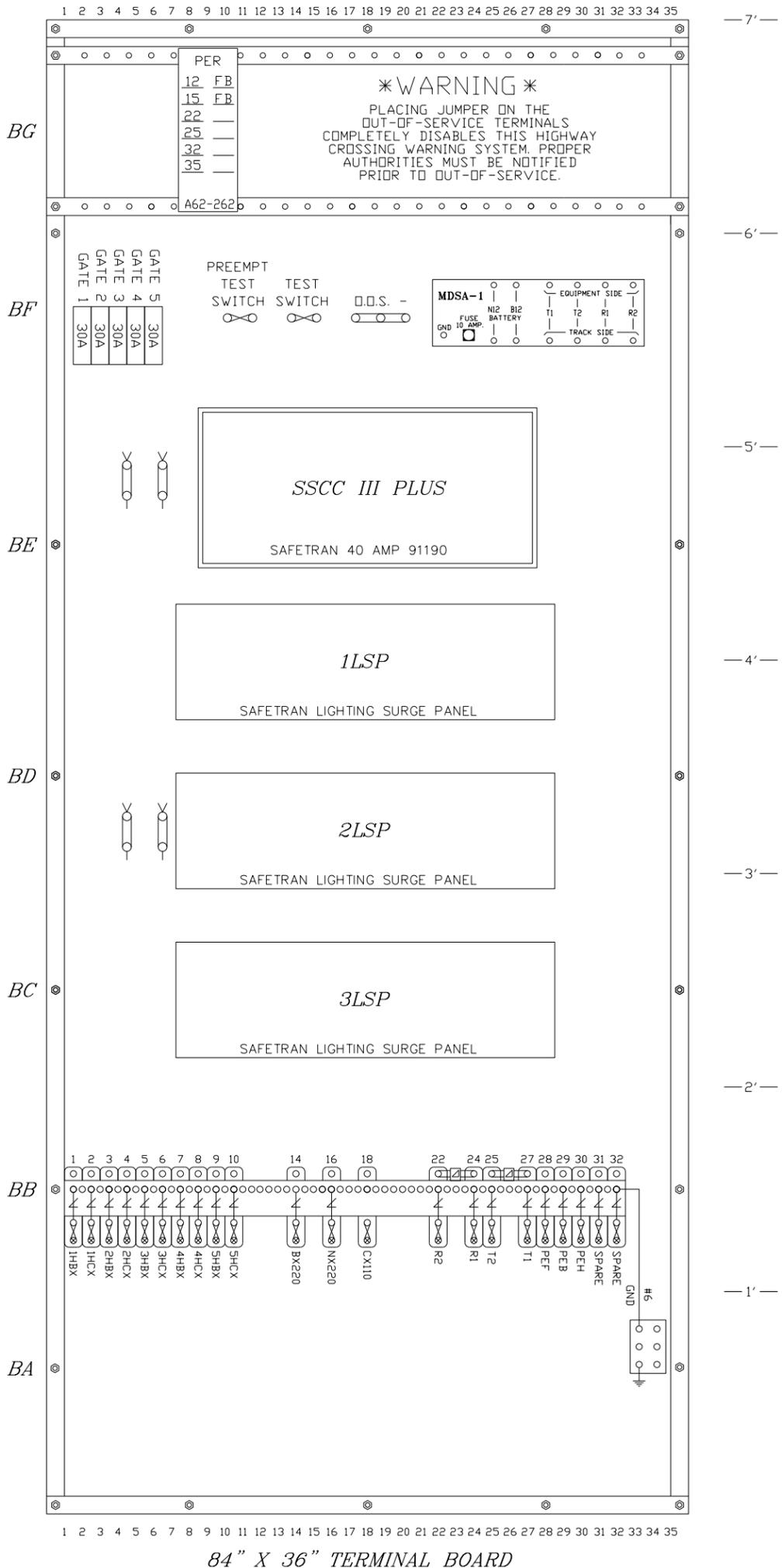
- NOTES:
- USE THE FOLLOWING COLOR CODE:
 GRN - GREEN - SAFETY EQUIPMENT GROUND
 WHT - WHITE - CX110 (NEUTRAL)
 BLK - BLACK - NX220 (L2)
 RED - RED - BX220 (L1)
 - = WIRE NUT
 - MINIMUM WIRE SIZE
 10 AMP - NO. 14 AWG THHN OR THWN SOLID
 20 AMP - NO. 12 AWG THHN OR THWN SOLID
 30 AMP - NO. 10 AWG THHN OR THWN SOLID
 - GROUND FAULT INTERRUPT (GFCI)
 MUST BE USED ON ALL CIRCUITS SERVING
 CONVENIENCE OUTLETS AND ANY EQUIPMENT
 OUTSIDE THE BUNGALOW. RECEPTACLE MOUNTED
 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: Q02DT1

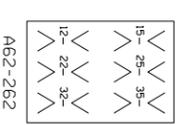
DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	WESTERN NEW YORK & PENNSYLVANIA RAILROAD	
	SCALE: NONE DATE: 11/01/2024	APPROVED BY: DRAWN BY: NST REVISED:
	13TH ST. (SR 322) - DOT # 262 836S - MP OC 24.77 FRANKLIN, VENANGO COUNTY, PA	
	AC POWER DISTRIBUTION	

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
 SUITE "D"
 SYKESVILLE, MD 21784

WESTERN NEW YORK & PENNSYLVANIA RAILROAD
 APPROVED BY: _____
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 REVISED: _____

SCALE: NONE
 DATE: 11/01/2024

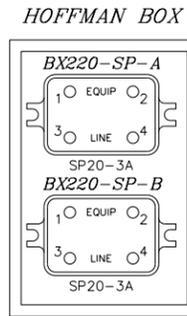
13TH ST. (SR 322) - DOT # 262 836S - MP OC 24.77
 FRANKLIN, VENANGO COUNTY, PA

TERMINAL BOARD LAYOUT DRAWING NUMBER

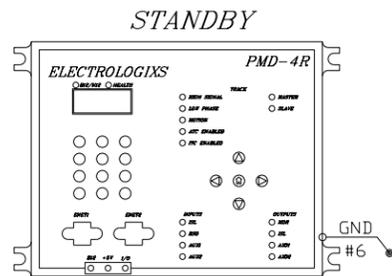
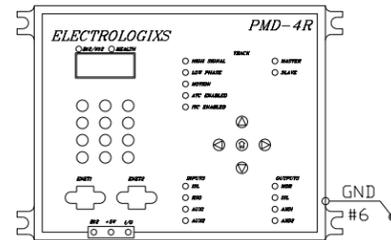
84" X 36" TERMINAL BOARD

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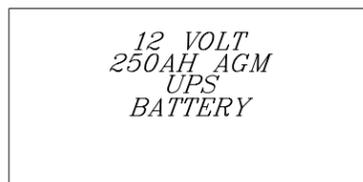
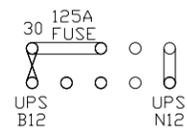
"AA"



"AB"



"AC"



BATTERY TRAY
HOUSE FLOOR
SIDE "A"

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

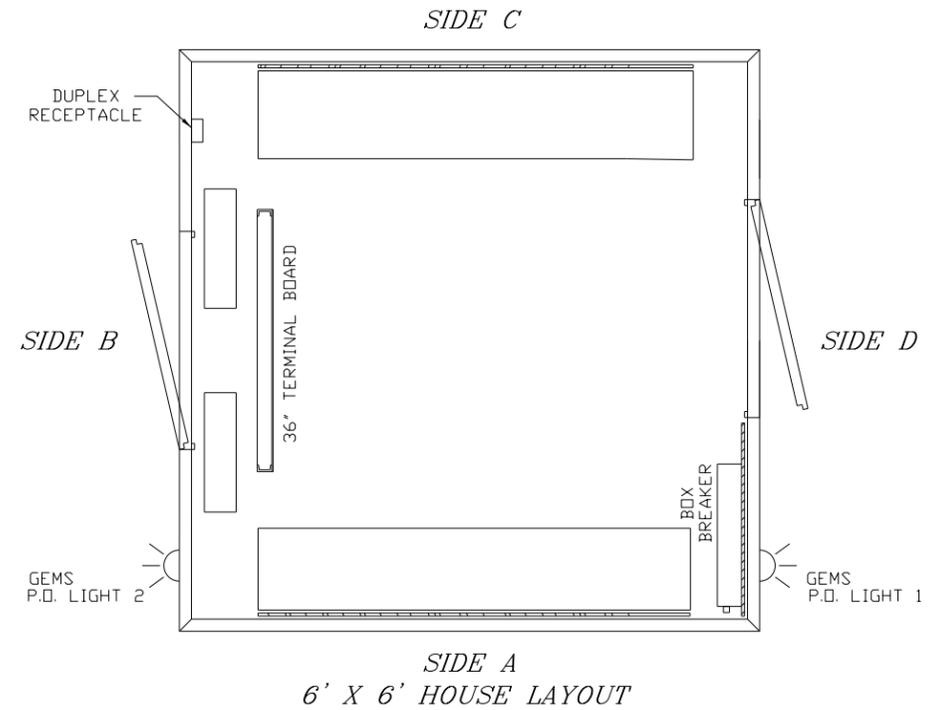
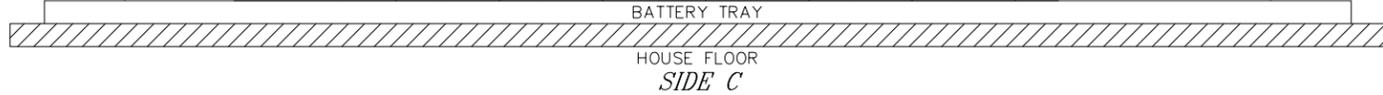
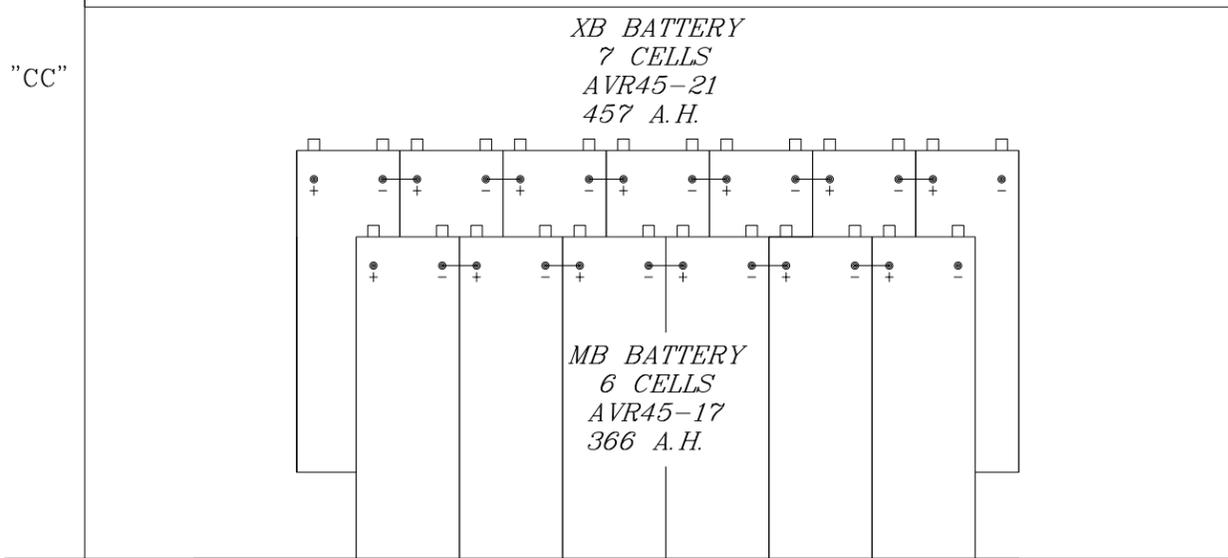
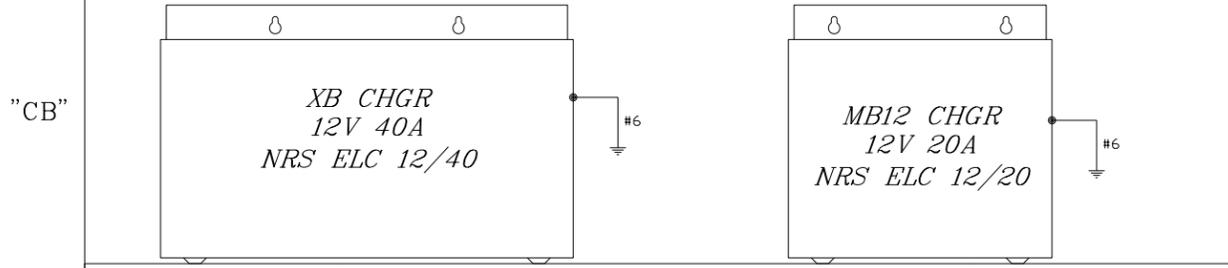
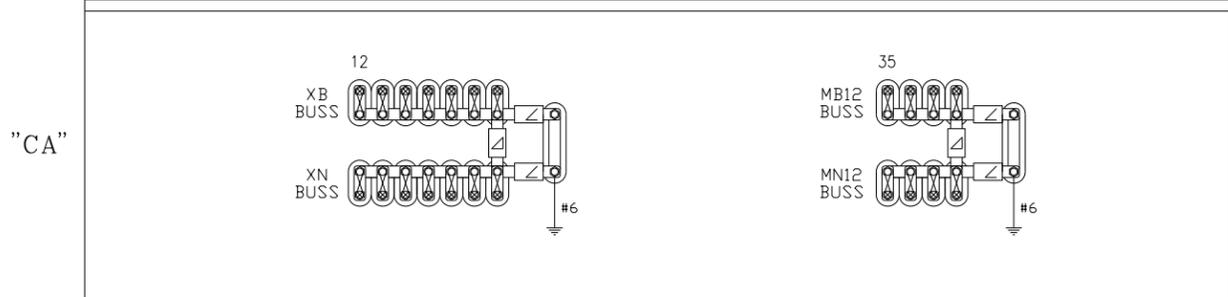
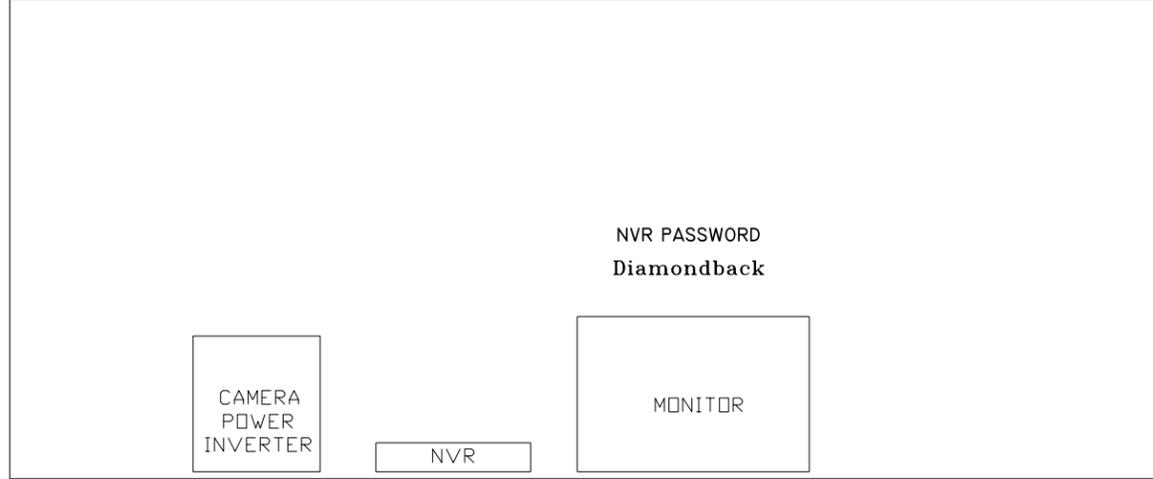
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13TH ST. (SR 322) - DOT # 262 836S - MP OC 24.77
FRANKLIN, VENANGO COUNTY, PA

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

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

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