



DIAMONDBACK SIGNAL

August 7, 2015

Rosemary Chiavetta, Secretary  
Pennsylvania Public Utility Commission  
PO Box 3265  
Harrisburg, PA 17105-3265

In re: **A-2015-2471360** Application of the Commonwealth of Pennsylvania, Department of Transportation, for approval to alter the public at-grade crossing by the installation of new train activated automatic warning devices, flashing lights, gates, and circuitry where **S.R. 0062 (Petroleum Street)**, crosses the single track of the **Western New York and Pennsylvania Railroad, Inc.** (DOT No. 262 844J) in Oil City, Venango County; **All in accordance with the Federal Grade Crossing Program**; and the allocation of costs incident thereto.

Dear Rosemary Chiavetta:

A copy of the circuit plans for has been served upon the parties in the Certificate of Service.

Diamondback Signal is sending this on behalf of the Western New York and Pennsylvania Railroad.

Sincerely,

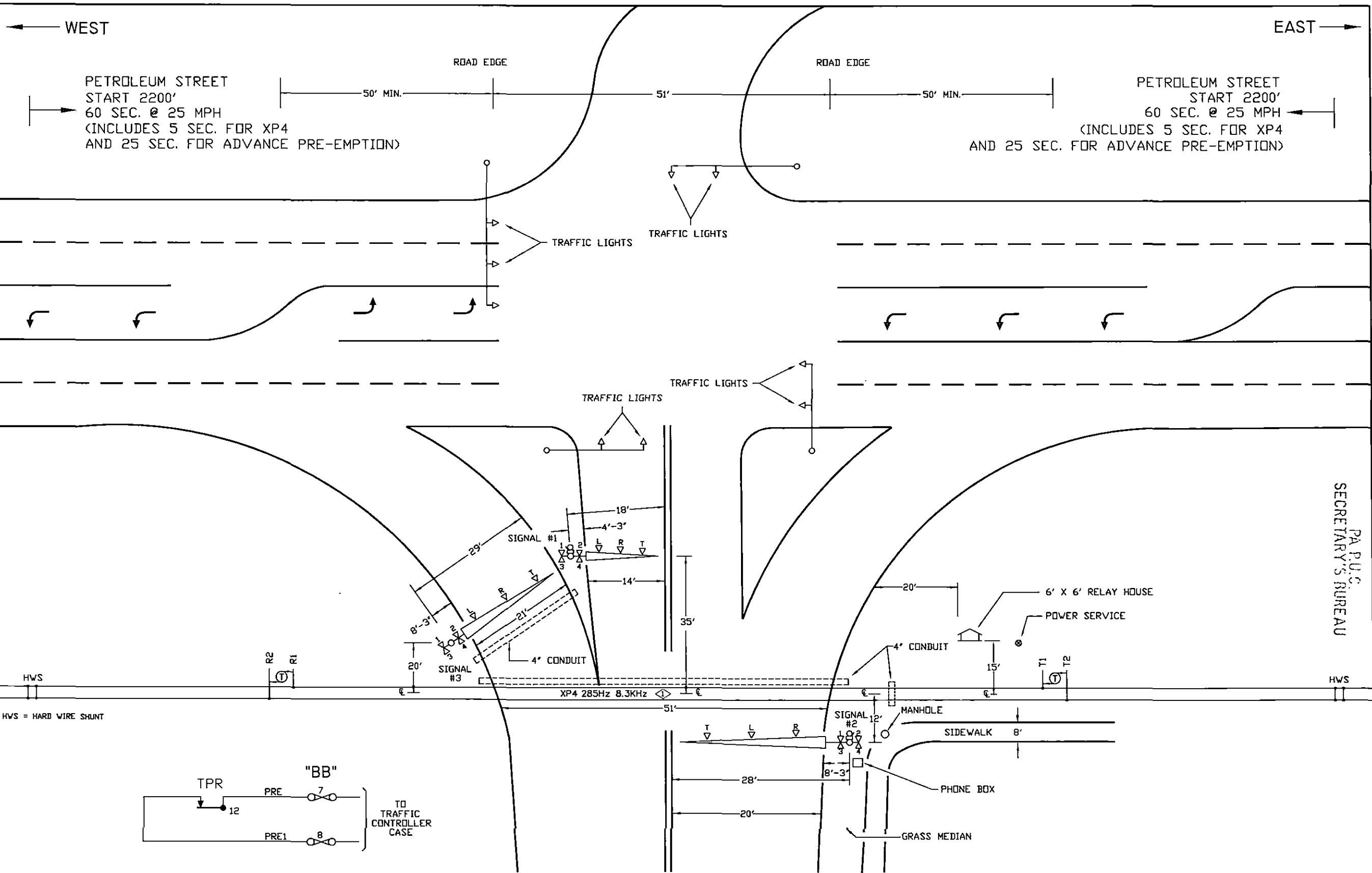
Kevin Lamb  
Vice President Engineering

Enclosures

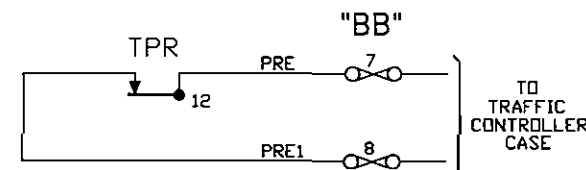
PA P.U.C.  
SECRETARY'S BUREAU

2015 AUG 13 AM 10:35

RECEIVED



HWS = HARD WIRE SHUNT



**NOTES:**

1. MATERIAL & INSTALLATION TO BE IN ACCORDANCE WITH MUTCD, STATE AND RAILROAD STANDARDS.
2. ALL DIMENSIONS ARE APPROXIMATE AND MAY VARY DUE TO ACTUAL FIELD CONDITIONS.
3. - DENOTES TWIST PAIR.

**CABLE RUN TABULATION**

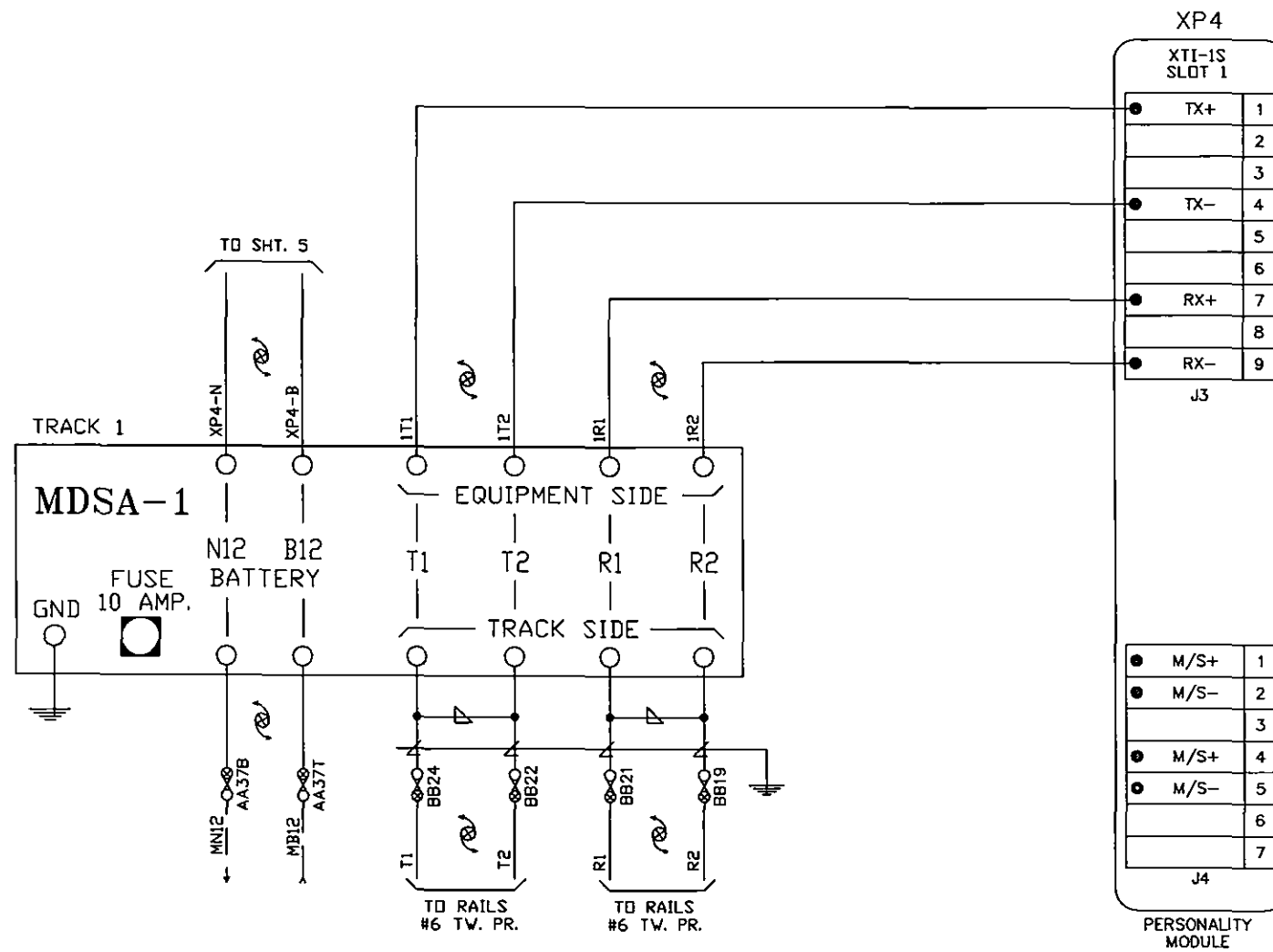
- HOUSE TO SIGNAL/GATE 1 - 7/C #6 UG CABLE
- HOUSE TO SIGNAL/GATE 1 - 7/C #14 UG CABLE
- HOUSE TO SIGNAL/GATE 2 - 7/C #6 UG CABLE
- HOUSE TO SIGNAL/GATE 2 - 7/C #14 UG CABLE
- HOUSE TO SIGNAL/GATE 3 - 7/C #6 UG CABLE
- HOUSE TO SIGNAL/GATE 3 - 7/C #14 UG CABLE
- HOUSE TO AC SERVICE - 3/C #6 UG CABLE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

	<b>DIAMONDBACK SIGNAL</b> (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784		WESTERN NEW YORK & PENNSYLVANIA RAILROAD SCALE: NONE DATE: 6/10/2015 APPROVED BY: DRAWN BY: ISIS REVISED:	
	PETROLEUM STREET - DOT # 262 844J OIL CITY, VENANGO COUNTY, PA		TRACK & CABLE PLAN DRAWING NUMBER 32.99	

PA P.U.C.  
 SECRETARY'S BUREAU

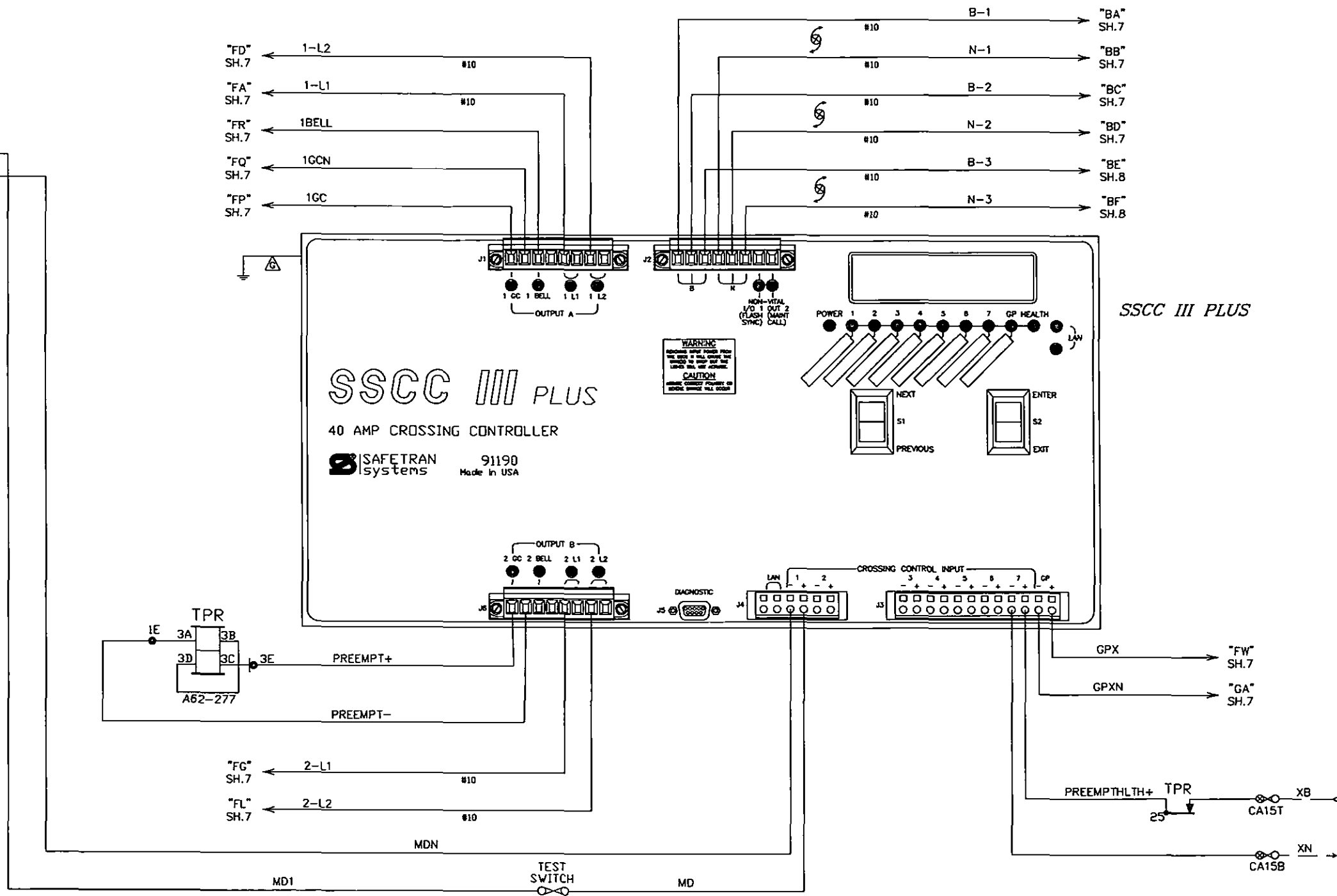
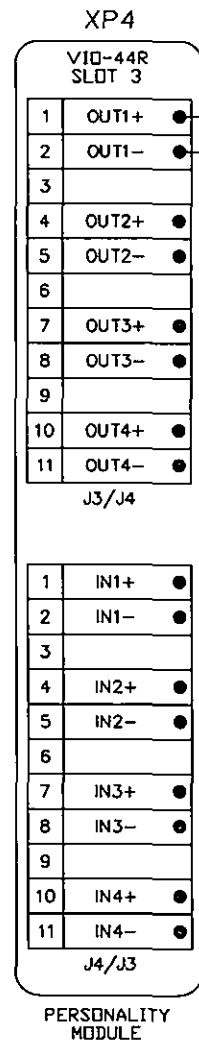
2015 AUG 13 AM 10:35

RECEIVED



- NOTES:
1. ALL WIRE THIS SHEET #10 UNLESS OTHERWISE NOTED.
  2. = TWISTED WIRE - 2 TURNS PER FOOT.

	<b>DIAMONDBACK SIGNAL</b> (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	WESTERN NEW YORK & PENNSYLVANIA RAILROAD	
		SCALE: NONE	APPROVED BY:
		DATE: 6/10/2015	DRAWN BY: ISIS
		REVISION:	
		PETROLEUM STREET - DOT # 262 844J OIL CITY, VENANGO COUNTY, PA	
		DC POWER DISTRIBUTION	DRAWING NUMBER 32.99



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

	<b>DIAMONDBACK SIGNAL</b> (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	WESTERN NEW YORK & PENNSYLVANIA RAILROAD	
	SCALE: NONE DATE: 6/10/2015	APPROVED BY:	DRAWN BY: ISIS REVISED:
PETROLEUM STREET - DOT # 262 844J OIL CITY, VENANGO COUNTY, PA		DRAWING NUMBER: SSCC III PLUS 32.99	

SSCC III PLUS HISTORY CARD

Sheet 1 of 2

SITE SETUP DATA

Unit Serial No: _____	Crossing No: _____
Date Installed: _____	Installed By: _____
<b>Crossing Controller (Common Return Gate Drive)</b> <input checked="" type="checkbox"/> 40-ampere unit 91190 <input type="checkbox"/> 20-ampere unit 91195	<b>Surge Panels (Common Return Gate Drive)</b> <input type="checkbox"/> Other: _____ <input type="checkbox"/> 91170-1 (Use with 40-Amp or 20-Amp common gate drive) <input type="checkbox"/> 91170-2 (Use with 40-Amp common gate drive only)
<b>Crossing Controller (Isolated Gate Drive)</b> <input type="checkbox"/> 40-ampere unit 91200 <input type="checkbox"/> 20-ampere unit 91205	<b>Surge Panels (Isolated Gate Drive)</b> <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 checked="" 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 print relay, 17 = fdbk	<input type="checkbox"/> NORMAL <input type="checkbox"/> INVERTED <input type="checkbox"/> PRE-EMPT SIM <input checked="" 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	25 _____ seconds	_____ seconds	_____ seconds
MIN ACTIVATION TIME:	0-30 sec., Default = 20	28 _____ seconds	_____ seconds	_____ seconds
STICK RELEASE TIME:	5-30 min., Default = 15	DEFAULT _____ minutes	_____ minutes	_____ minutes
SUP ISLAND TIME:	5-20 min., Default = 20	DEFAULT _____ 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: BASICPLS	ID: 087	MCF: _____	ID: _____	MCF: _____	ID: _____
		CRC: 72ADEE59		CRC: _____		CRC: _____	
ATCS Address:	Default = 700000000000						

Document No: SSCCIIIPLUS\_Historycard Version: D

SSCC III PLUS HISTORY CARD

Sheet 2 of 2

SITE SETUP DATA continued

CONFIGURE				
LDV 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"/> FI Sync In <input type="checkbox"/> Flash Sync Out	<input type="checkbox"/> NV Out <input type="checkbox"/> FI Sync In <input type="checkbox"/> Flash Sync Out	<input type="checkbox"/> NV Out <input type="checkbox"/> FI 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

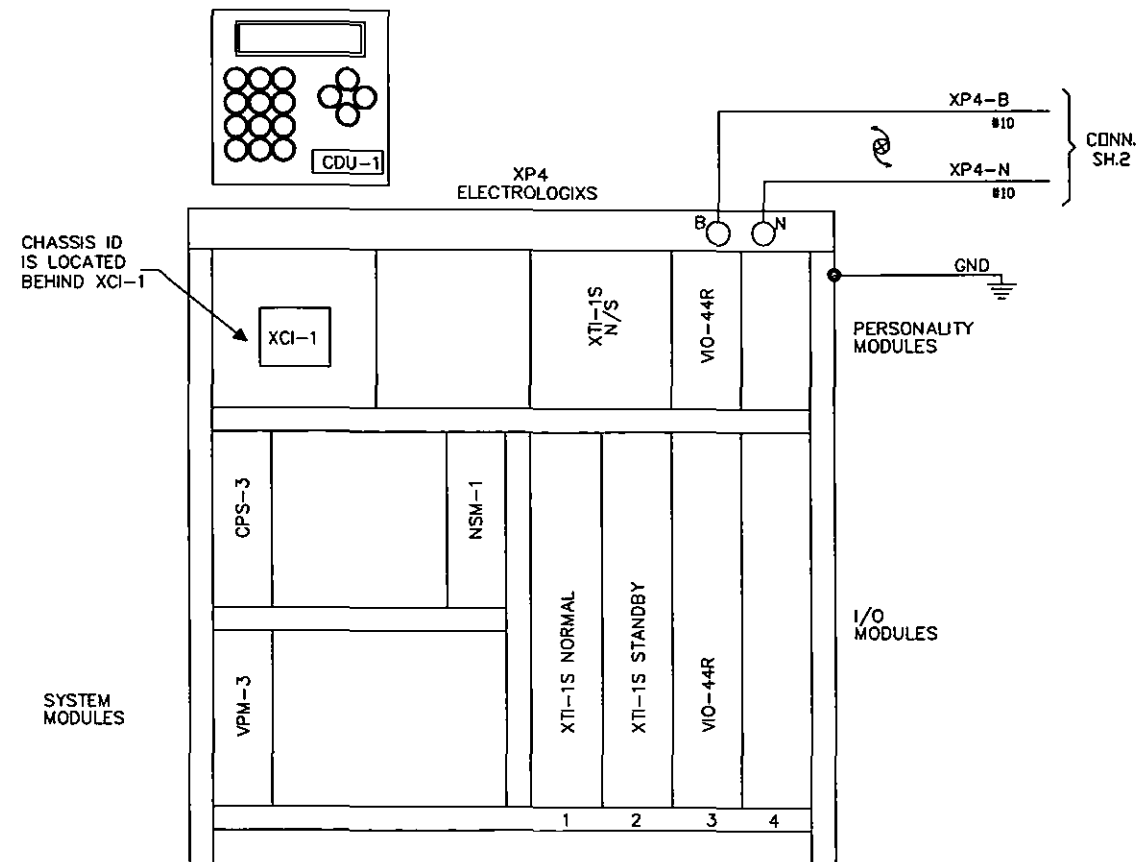
Multimeter Reading Variance From Actual Lamp Voltage

Battery Bank Voltages	Valid Lamp Output Range (n 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.


Document No: SSCCIIIPLUS\_Historycard Version: D

	<b>DIAMONDBACK SIGNAL</b> (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	WESTERN NEW YORK & PENNSYLVANIA RAILROAD SCALE: NONE DATE: 6/10/2015 APPROVED BY: _____ DRAWN BY: ISIS REVISED: _____ PETROLEUM STREET - DOT # 262 844J OIL CITY, VENANGO COUNTY, PA
	SHEET 4 OF 17	SSCC III PLUS PROGRAM CARD



**NOTES:**

1. ALL WIRE THIS SHEET #14 AWG FLEX UNLESS OTHERWISE NOTED.
2.  = TWISTED WIRE - 2 TURNS PER FOOT.

 <b>ISIS, LLC</b>	<b>DIAMONDBACK SIGNAL</b>	WESTERN NEW YORK & PENNSYLVANIA RAILROAD		
	(410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	SCALE: NONE DATE: 6/10/2015	APPROVED BY:	DRAWN BY: ISIS REVISED:
	PETROLEUM STREET - DOT # 262 844J OIL CITY, VENANGO COUNTY, PA			DRAWING NUMBER
	XP4 DETAIL			32.99

MDR SETUP																									
		MDR1				MDR2				MDR3				MDR4				MDR5				MDR6			
NAME		TK1_XR																							
WARNING TIME		55 SEC																							
CW/MD		CW																							
AP TIME																									
CWE-WT		0 SEC																							
AUX RECOVERY DELAY		0 SEC																							
TRACK ASSIGNED	ASSIGN	TK1	TK2	TK3	TK4	TK1	TK2	TK3	TK4	TK1	TK2	TK3	TK4	TK1	TK2	TK3	TK4	TK1	TK2	TK3	TK4	TK1	TK2	TK3	TK4
OFFSET DISTANCE	0 FT																								
MD RESTART	* 0																								
SUDDEN SHUNT ZONE	* 0																								
POSITIVE START	PSEN	DISABLE																							
	PSRX																								
	PST																								
POST JOINT DETECT	PJEN	DISABLE																							
	PJRX																								
	PJDT																								

MDR SETUP																									
		MDR7				MDR8				MDR9				MDR10				MDR11				MDR12			
NAME																									
WARNING TIME																									
CW/MD																									
AP TIME																									
CWE-WT																									
AUX RECOVERY DELAY																									
TRACK ASSIGNED		TK1	TK2	TK3	TK4	TK1	TK2	TK3	TK4	TK1	TK2	TK3	TK4	TK1	TK2	TK3	TK4	TK1	TK2	TK3	TK4	TK1	TK2	TK3	TK4
OFFSET DISTANCE																									
MD RESTART																									
SUDDEN SHUNT ZONE																									
POSITIVE START	PSEN																								
	PSRX																								
	PST																								
POST JOINT DETECT	PJEN																								
	PJRX																								
	PJDT																								

BASIC TRACK SETUP				
	TRACK 1	TRACK 2	TRACK 3	TRACK 4
FREQUENCY	285 HZ			
MASTER/SLAVE	MASTER			
RX ADJUST	100			
TCA	* 4.5			
DIRECTION MODE	BI			
LJA	*			
ADVANCED APR. CAL	INACTIVE			
NBS COMP RX	*			
TRK ISLAND ASSIGN	ISL1			
APPROACH LENGTH	2200 FT			
AUTO RX	ENABLE			

ADVANCE TRACK SETUP					
		TRACK 1	TRACK 2	TRACK 3	TRACK 4
MOTION DET TIMER	MDEN	ENABLE			
	MDTT	10 MIN			
FALSE SHUNT	FSEN	DISABLE			
	FSRX				
	FST				
APPROACH RELEASE	AREN	DISABLE			
	ARRX				
	ART				
LOS TIME		16 SEC			
IJ-LOS TIME		5 SEC			
NRML_SHRT_VRYSHRT		NRML *			

ISLAND SETUP				
	TRACK 1	TRACK 2	TRACK 3	TRACK 4
ENABLE/DISABLE	ENABLE			
FREQUENCY	8.3 KHZ			
LOSS OF SHUNT	2 SEC			
FAULT DELAY	2			

EXECUTIVE INFORMATION		
VPM-3	VERSION	PART NUMBER
VPM-A PROCESSOR	7.15	251432-200
VPM-B PROCESSOR	7.15	251432-200
VPM-C PROCESSOR	7.15	251432-200

APPLICATION SOFTWARE INFORMATION	
NAME	PETROLEUM
REV.	0.1
CHECKSUM	259D
CRC	A83E
CHASSIS ID	0
ID STRAPPING	REMOVE

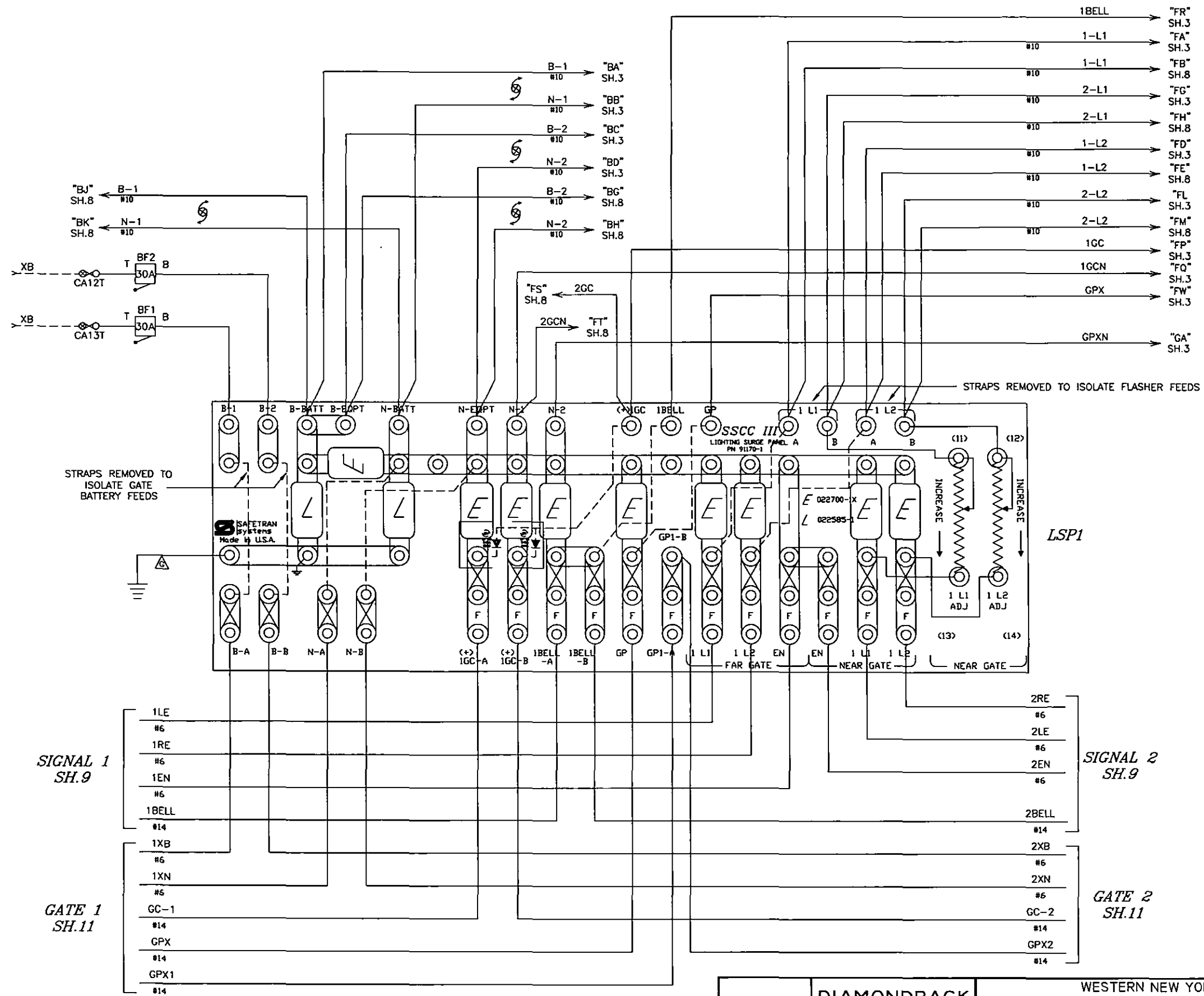
\* = FIELD ADJUSTMENT  
NA = NOT APPLICABLE

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



WESTERN NEW YORK & PENNSYLVANIA RAILROAD

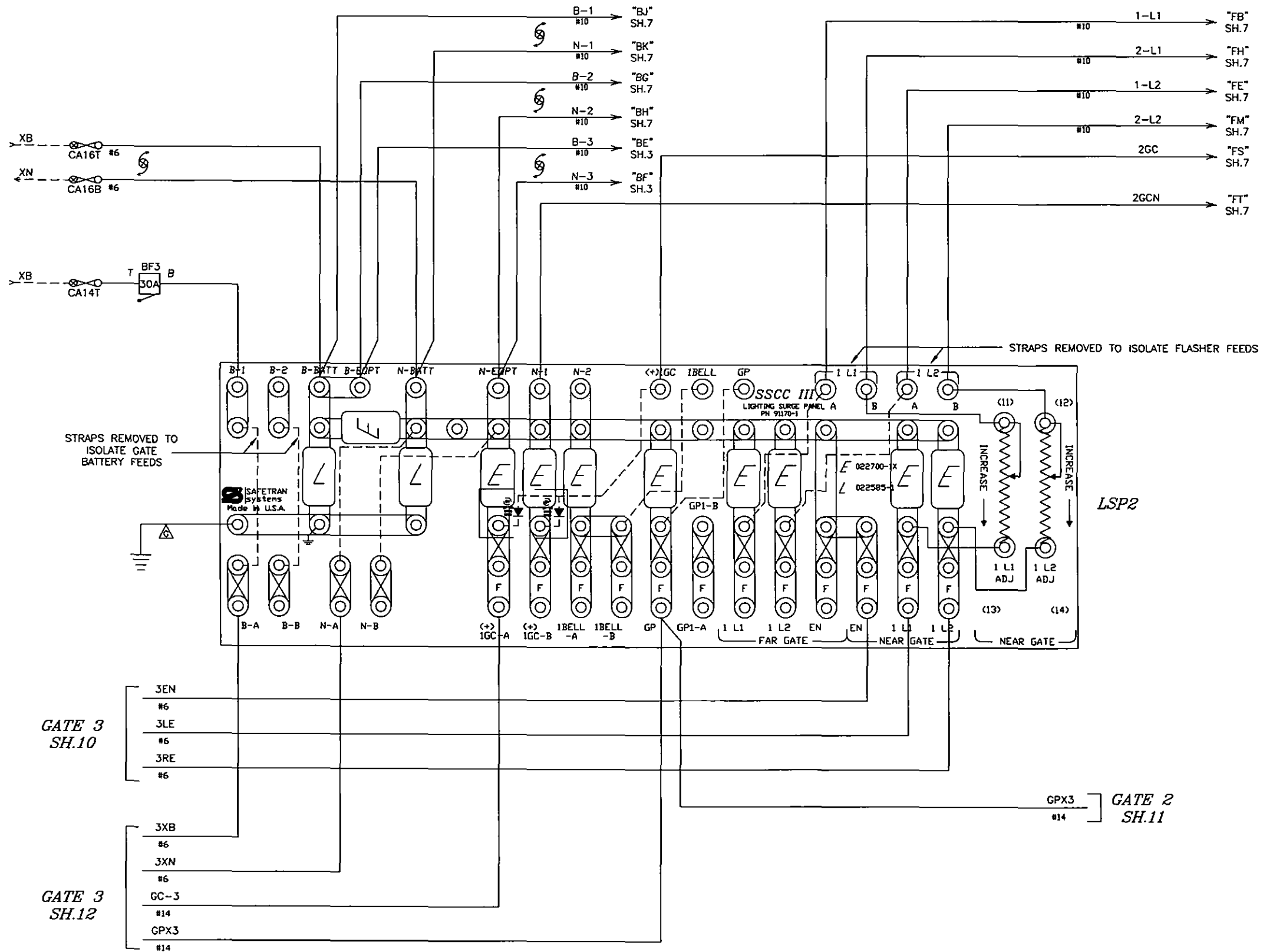
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DATE: 6/10/2015		REVISED:
PETROLEUM STREET - DOT # 262 844J OIL CITY, VENANGO COUNTY, PA		
XP4 DETAIL	DRAWING NUMBER 32.99	



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

	<b>DIAMONDBACK SIGNAL</b>		WESTERN NEW YORK & PENNSYLVANIA RAILROAD	
	(410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	SCALE: NONE DATE: 6/10/2015	APPROVED BY:	DRAWN BY: ISIS REVISED:
PETROLEUM STREET - DOT # 262 844J OIL CITY, VENANGO COUNTY, PA			LSP-1	DRAWING NUMBER 32.99

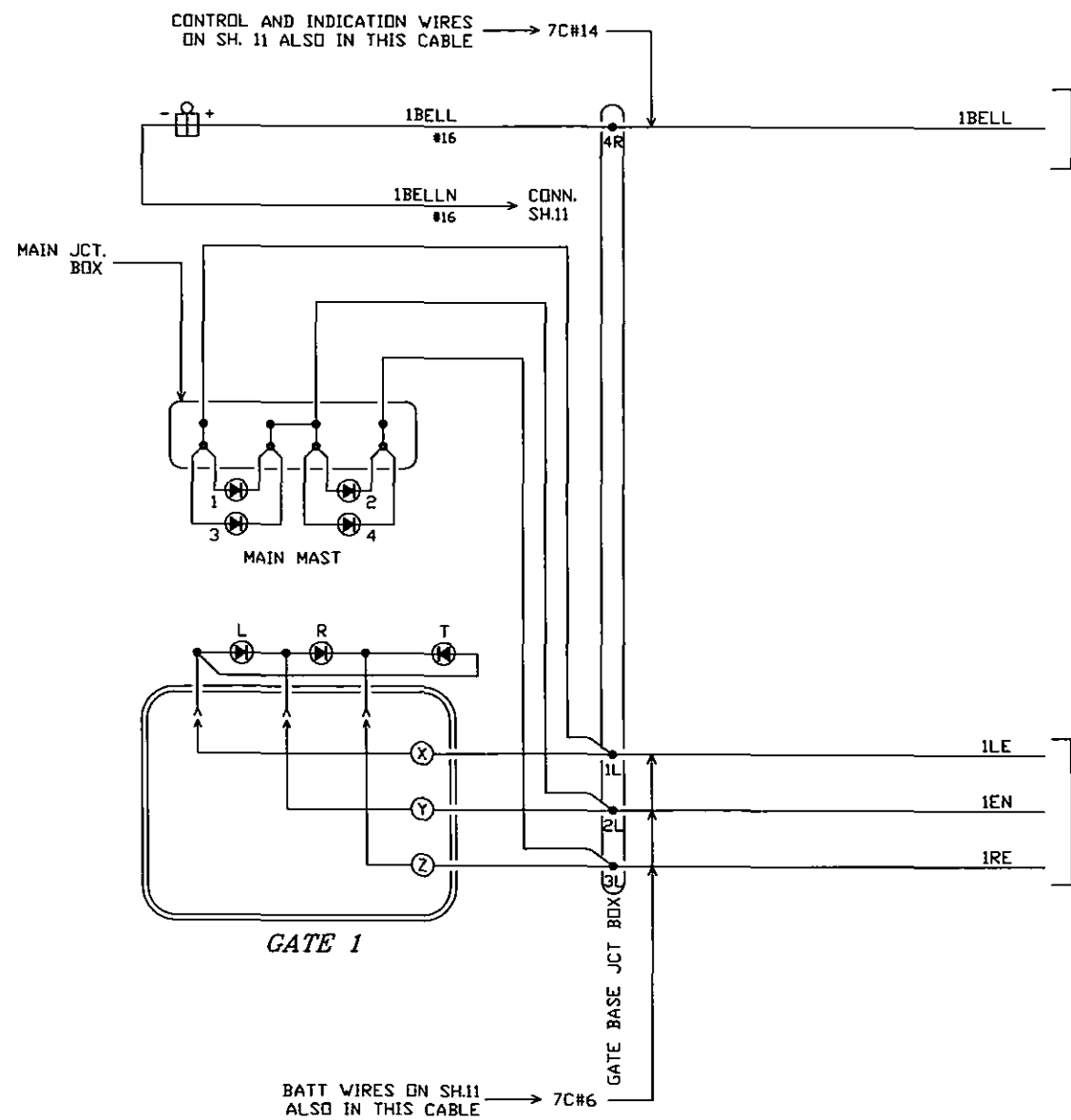




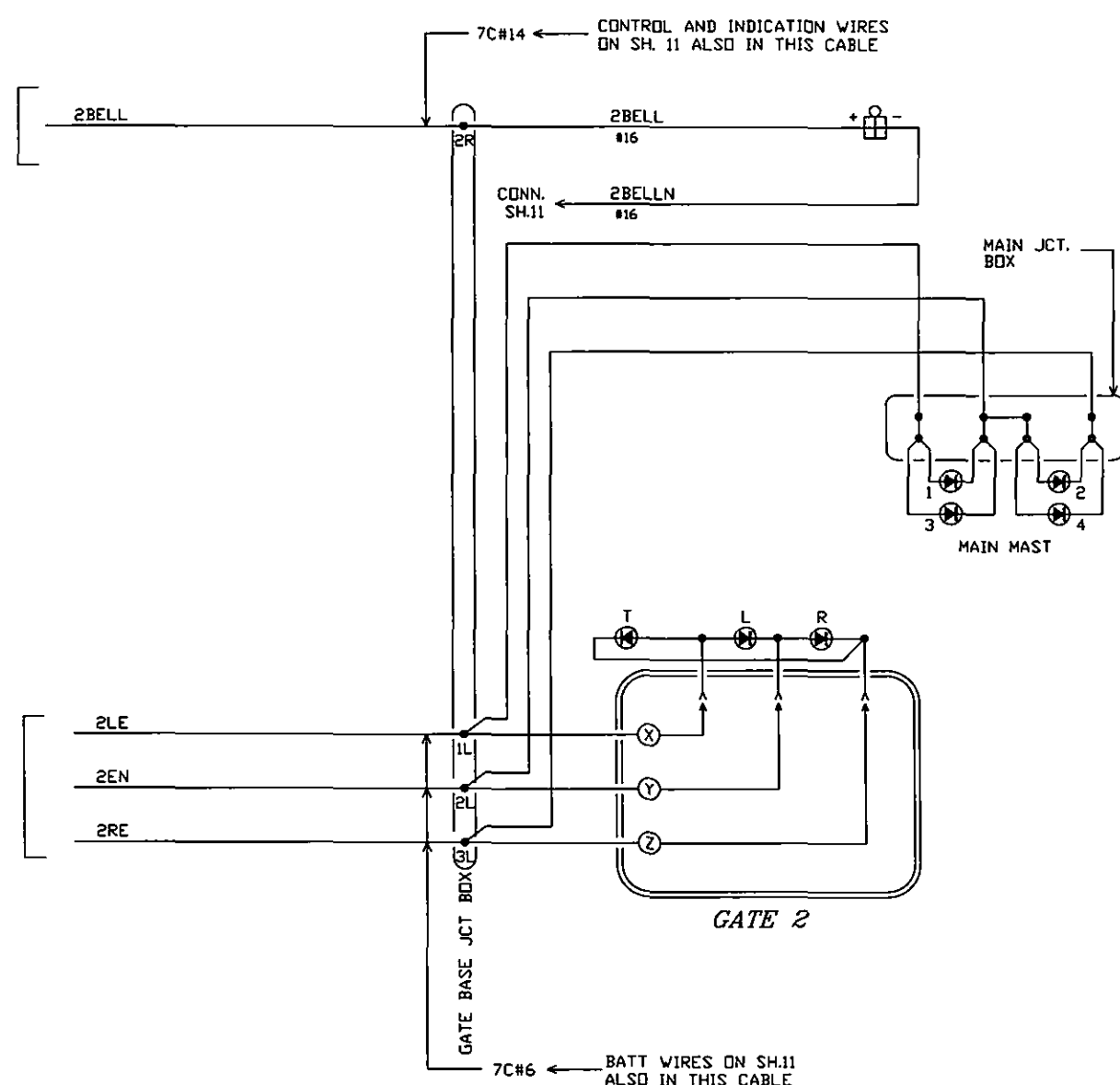
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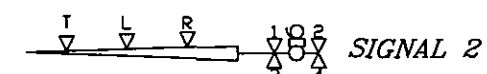
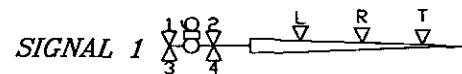
	<b>DIAMONDBACK SIGNAL</b>		WESTERN NEW YORK & PENNSYLVANIA RAILROAD	
	(410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	SCALE: NONE DATE: 6/10/2015	APPROVED BY:	DRAWN BY: ISIS REVISED:
PETROLEUM STREET - DOT # 262 844J OIL CITY, VENANGO COUNTY, PA			LSP-2	DRAWING NUMBER 32.99




LSP1  
SH. 7

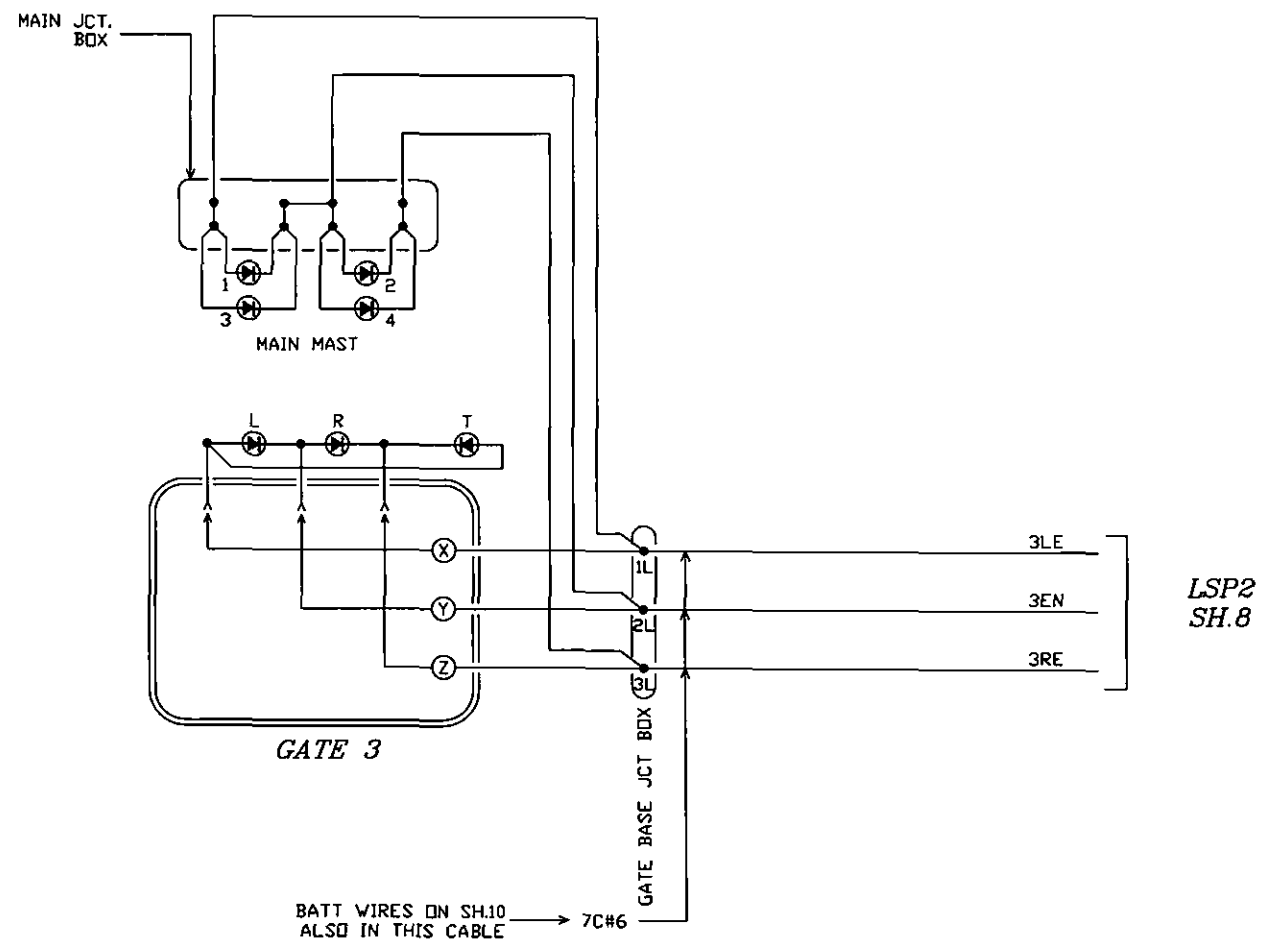


LSP1  
SH. 7

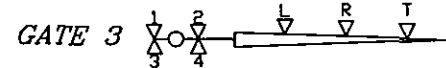


NOTE:  
1. ALL WIRING TO BE #10 AWG UNLESS OTHERWISE NOTED.


 <b>ISIS, LLC</b>	<b>DIAMONDBACK SIGNAL</b> (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	WESTERN NEW YORK & PENNSYLVANIA RAILROAD	
		SCALE: NONE DATE: 6/10/2015	APPROVED BY:
		PETROLEUM STREET - DOT # 262 844J OIL CITY, VENANGO COUNTY, PA	
		FLASHER CIRCUIT PLAN "A"	DRAWING NUMBER 32.99

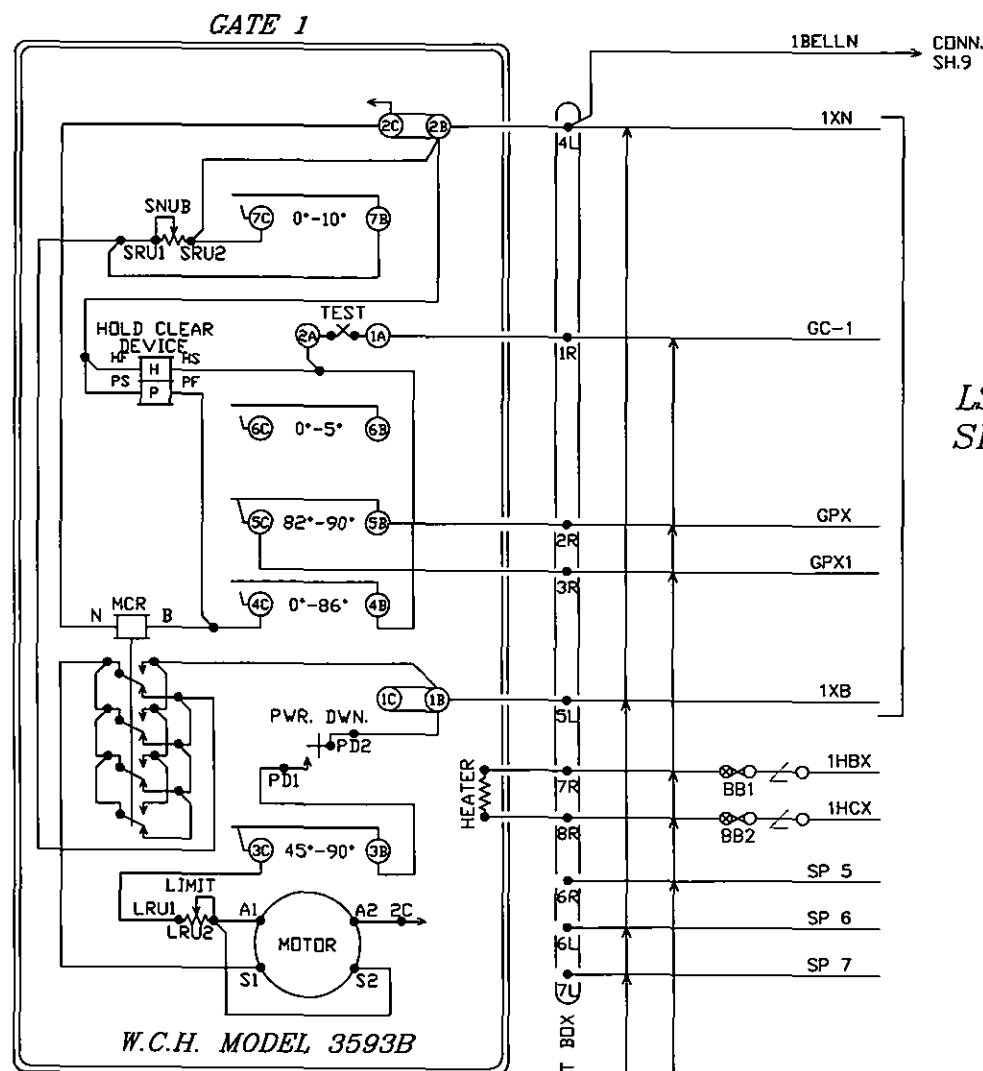


LSP2  
SH.8



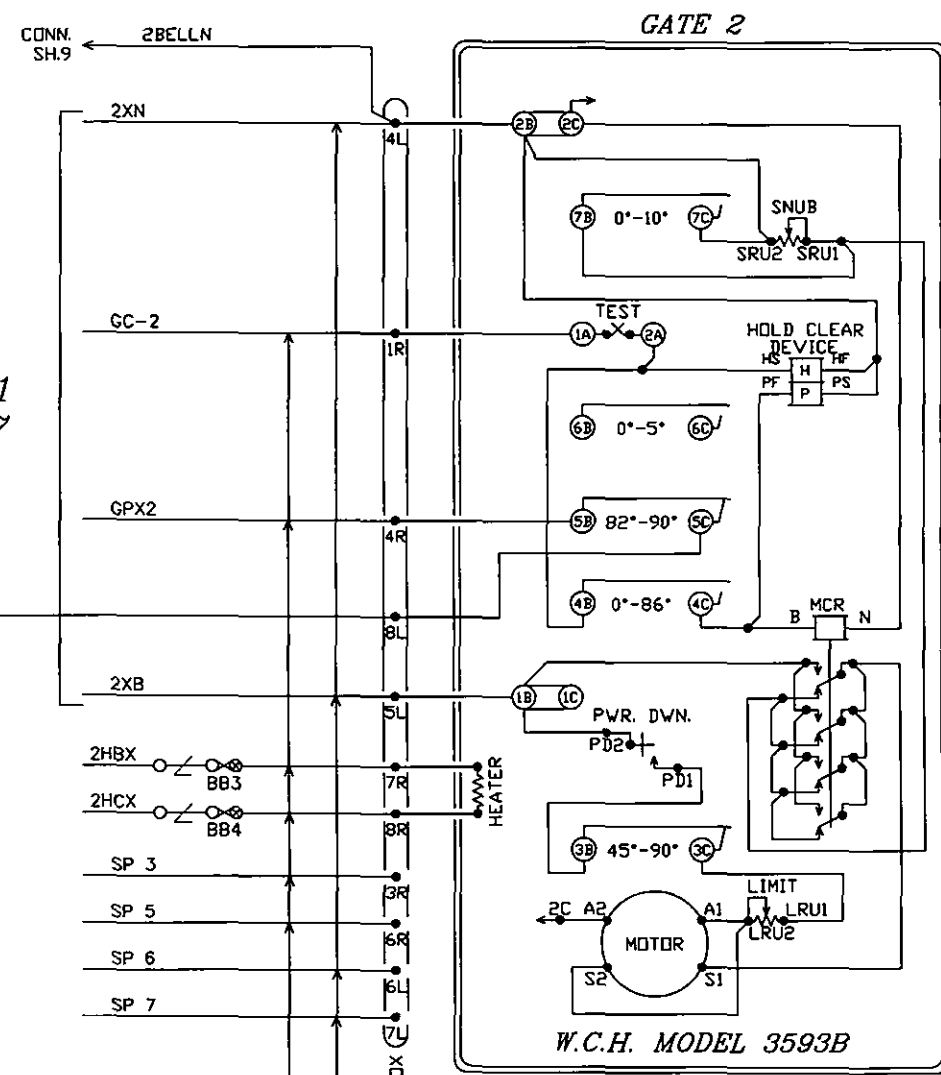
NOTE:  
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	<b>DIAMONDBACK SIGNAL</b> (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	WESTERN NEW YORK & PENNSYLVANIA RAILROAD	
		SCALE: NONE	APPROVED BY:
		DATE: 6/10/2015	DRAWN BY: ISIS
		REVISID:	
		PETROLEUM STREET - DOT # 262 844J OIL CITY, VENANGO COUNTY, PA	
		FLASHER CIRCUIT PLAN "B"	DRAWING NUMBER 32.99



LSP1  
SH.7

LSP2  
SH.8



LSP1  
SH.7

LIGHT WIRES ON SH. 9  
ALSO IN THIS CABLE → 7C#6  
CONTROL AND INDICATION WIRES  
ON SH. 9 ALSO IN THIS CABLE → 7C#14

LIGHT WIRES ON SH. 9  
ALSO IN THIS CABLE  
CONTROL AND INDICATION WIRES  
ON SH. 9 ALSO IN THIS CABLE

SIGNAL & GATE 1 JUNCTION BOX

1LE #6	1L #6	1LE #6	GC-1 #16	1R #14	GC-1 #14
1EN #6	2L #6	1EN #6	GPX #16	2R #14	GPX #14
1RE #6	3L #6	1RE #6	GPX1 #16	3R #14	GPX1 #14
1XN #6	4L #6	1XN #6	1BELL #16	4R #14	1BELL #14
1XB #6	5L #6	1XB #6		5R #14	
SP 6 #6	6L #6			6R #14	SP 5 #14
SP 7 #6	7L #6		1HBX #16	7R #14	1HBX #14
	8L #6		1HCX #16	8R #14	1HCX #14

SIGNAL & GATE 2 JUNCTION BOX

2LE #6	1L #6	2LE #6	GC-2 #16	1R #14	GC-2 #14
2EN #6	2L #6	2EN #6	2BELL #16	2R #14	2BELL #14
2RE #6	3L #6	2RE #6		3R #14	SP 3 #14
2XN #6	4L #6	2XN #6	GPX2 #16	4R #14	GPX2 #14
2XB #6	5L #6	2XB #6		5R #14	
SP 6 #6	6L #6			6R #14	SP 5 #14
SP 7 #6	7L #6		2HBX #16	7R #14	2HBX #14
GPX3 #14	8L #16	GPX3 #16	2HCX #16	8R #14	2HCX #14

NOTES:  
1. ALL WIRING TO BE #16 AWG UNLESS OTHERWISE NOTED.

**DIAMONDBACK SIGNAL**

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

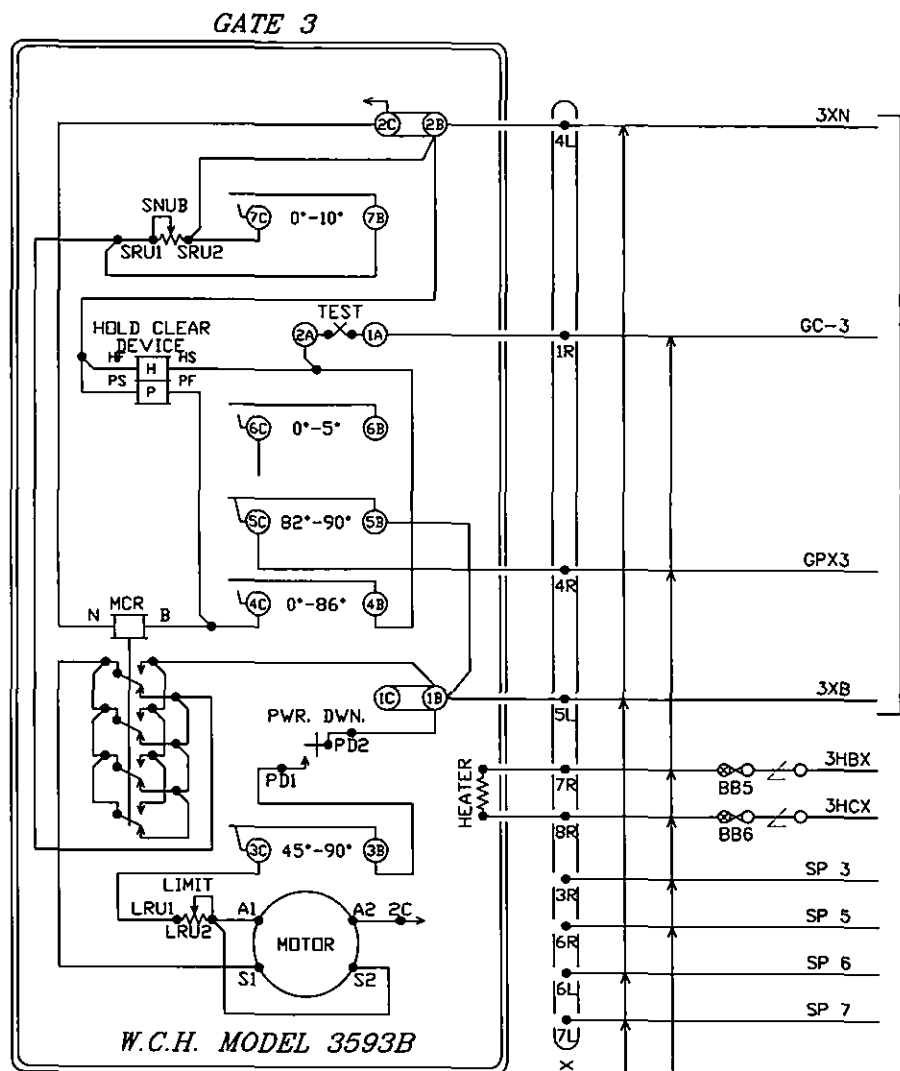
WESTERN NEW YORK & PENNSYLVANIA RAILROAD

SCALE: NONE  
DATE: 6/10/2015

APPROVED BY: \_\_\_\_\_  
DRAWN BY: ISIS  
REVISED: \_\_\_\_\_

PETROLEUM STREET - DOT # 262 844J  
OIL CITY, VENANGO COUNTY, PA

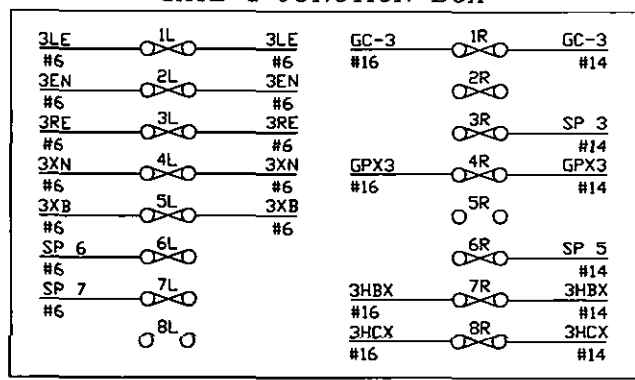
GATE 1 & 2 CIRCUIT PLAN  
DRAWING NUMBER 32.99




LSP2  
SH. 8

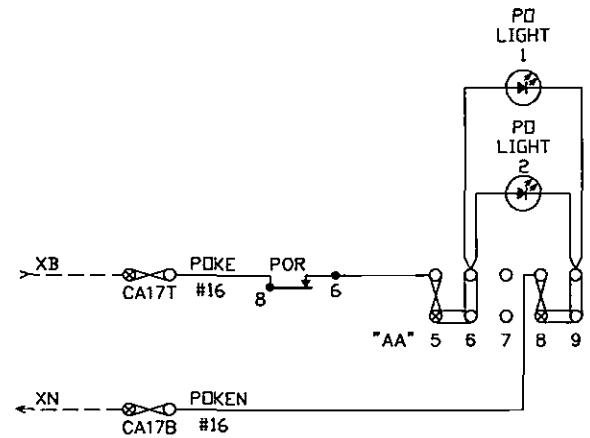
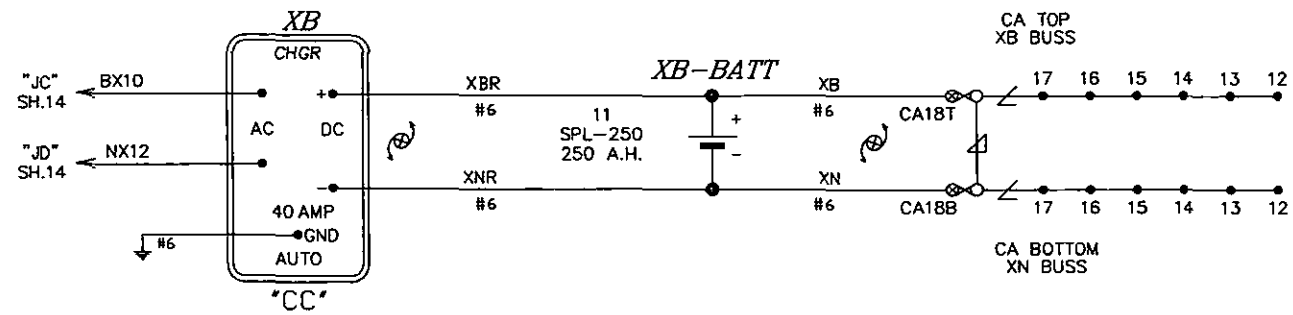
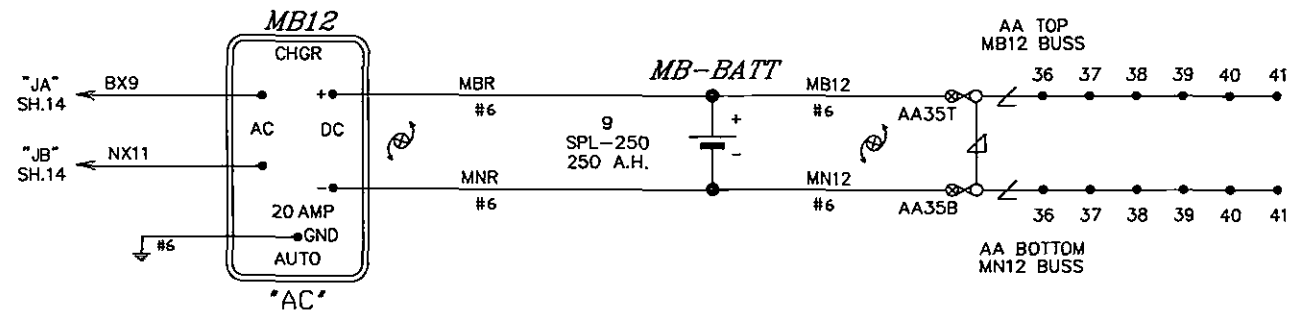
LIGHT WIRES ON SH. 10  
ALSO IN THIS CABLE → 7C#6  
CONTROL AND INDICATION WIRES  
ON SH. 10 ALSO IN THIS CABLE → 7C#14

GATE 3 JUNCTION BOX



NOTES:  
1. ALL WIRING TO BE #16 AWG UNLESS  
OTHERWISE NOTED.

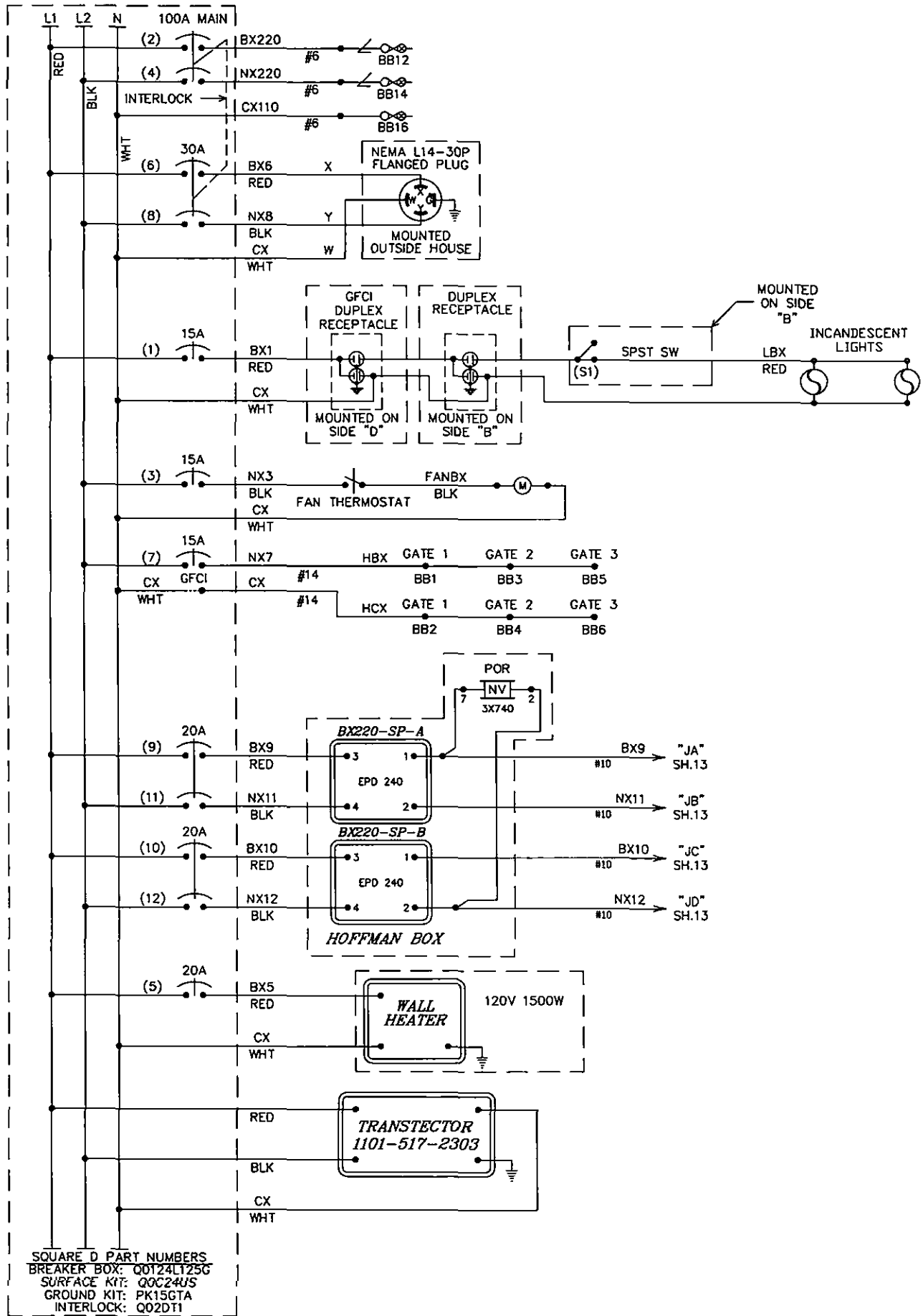
	<b>DIAMONDBACK SIGNAL</b> (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	WESTERN NEW YORK & PENNSYLVANIA RAILROAD	
		SCALE: NONE DATE: 6/10/2015	APPROVED BY: _____ _____
		PETROLEUM STREET - DOT # 262 844J OIL CITY, VENANGO COUNTY, PA	
		GATE 3 CIRCUIT PLAN	DRAWING NUMBER 32.99



NOTES:

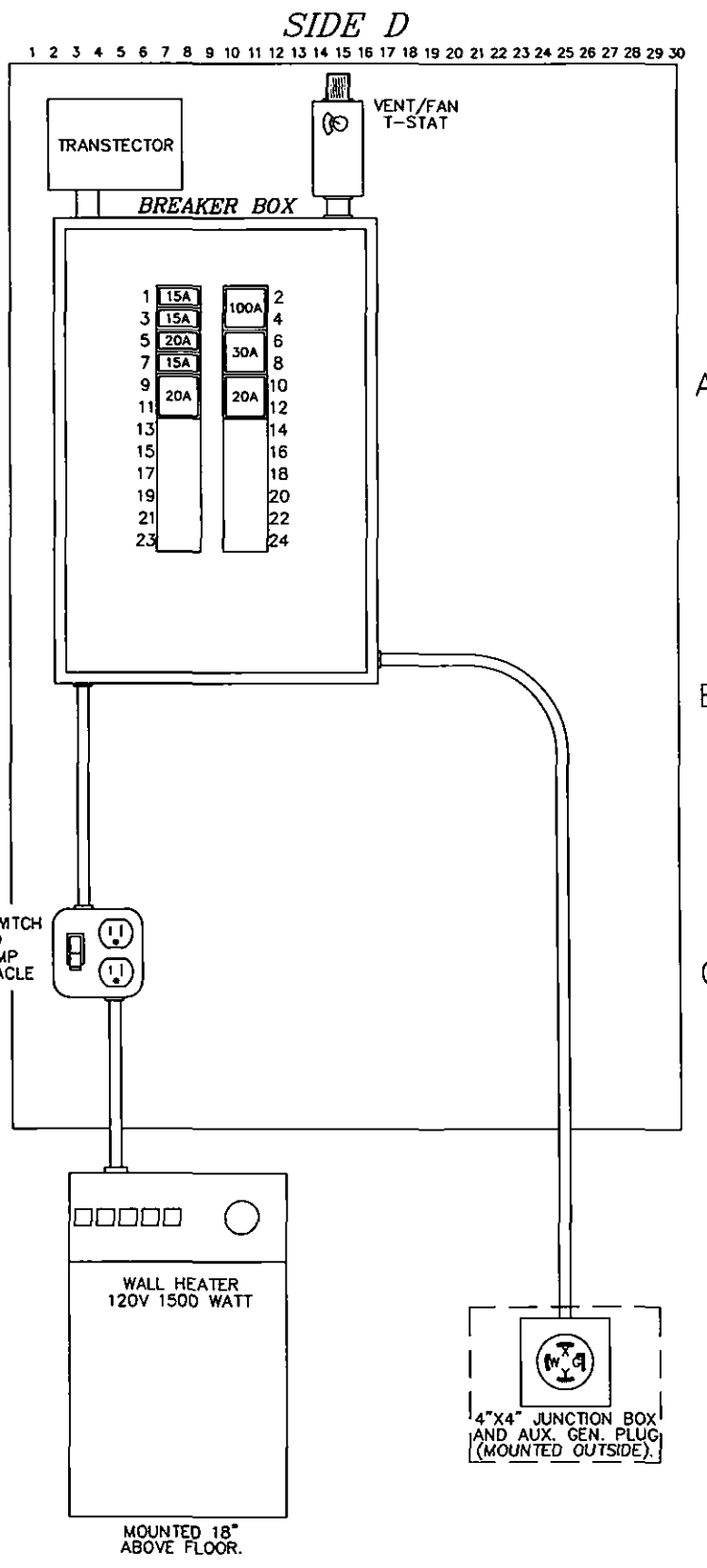
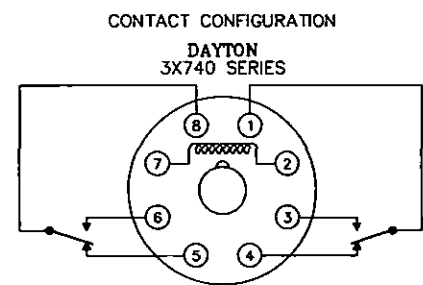
1. ALL WIRING THIS SHEET TO BE #10 AWG, UNLESS OTHERWISE NOTED.
2. = TWISTED WIRE - 2 TURNS PER FOOT.
3. ALL 110 VOLT TERMINALS TO BE COVERED OR TO USE INSULATED NUTS.

	<b>DIAMONDBACK SIGNAL</b>		WESTERN NEW YORK & PENNSYLVANIA RAILROAD		
	(410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784		SCALE: NONE	APPROVED BY:	DRAWN BY: ISIS
			DATE: 6/10/2015		
			PETROLEUM STREET - DOT # 262 844J OIL CITY, VENANGO COUNTY, PA		
			DC POWER DISTRIBUTION		DRAWING NUMBER 32.99

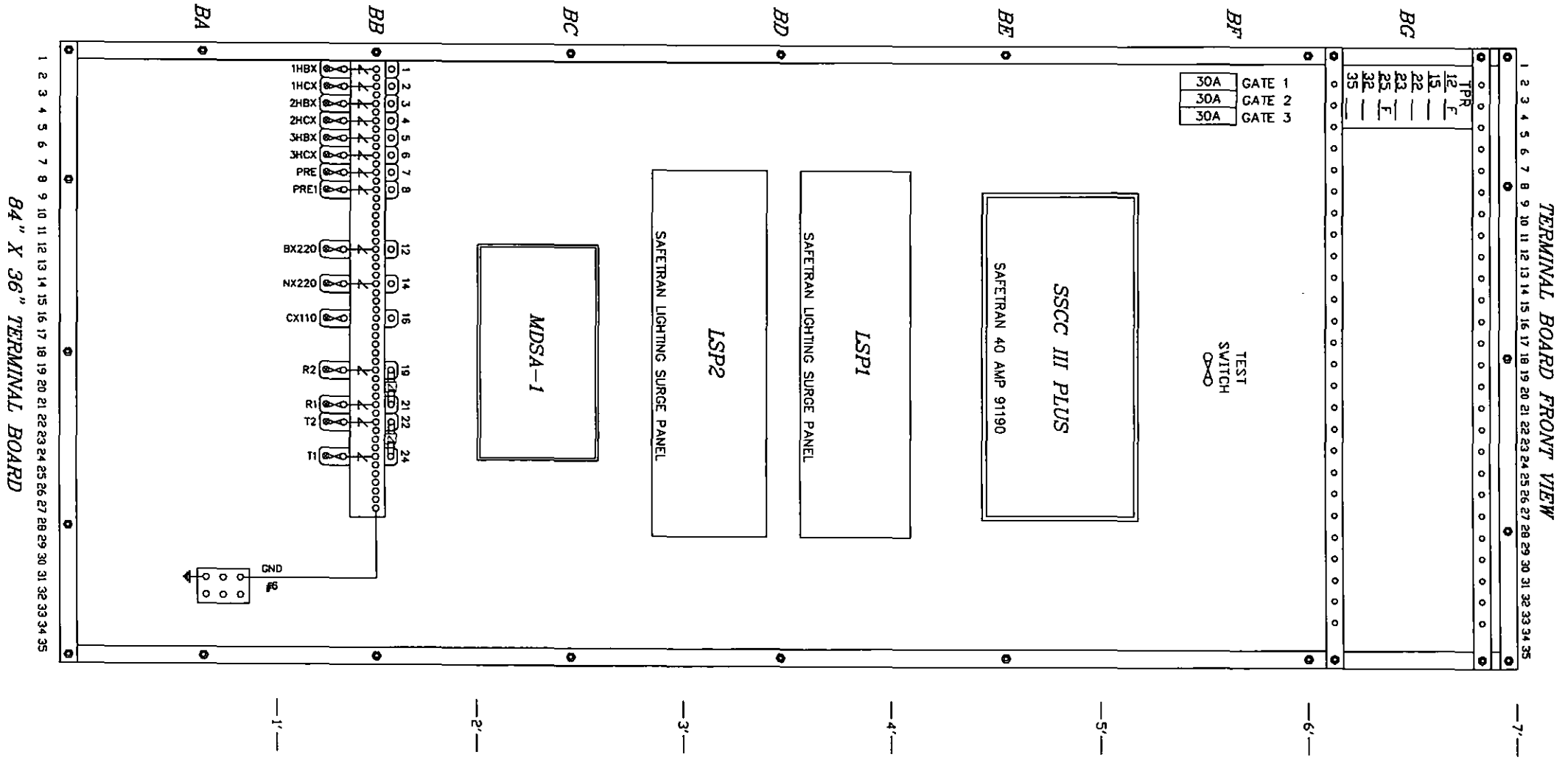



SQUARE D PART NUMBERS  
 BREAKER BOX: Q0124LT25G  
 SURFACE KIT: Q0C24US  
 GROUND KIT: PK15GTA  
 INTERLOCK: Q02DT1

- NOTES:
- USE THE FOLLOWING COLOR CODE:  
 GRN - GREEN - SAFETY EQUIPMENT GROUND  
 WHT - WHITE - CX110 (NEUTRAL)  
 BLK - BLACK - NX220 (L2)  
 RED - RED - BX220 (L1)
  - EXCEPTIONS TO THE ABOVE COLOR CODE ARE THE PRE-WIRED, SEALED ARRESTOR UNITS MOUNTED ON THE BREAKER BOX WHICH HAVE TWO BLACK AND ONE WHITE WIRE EACH.
  - = 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 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

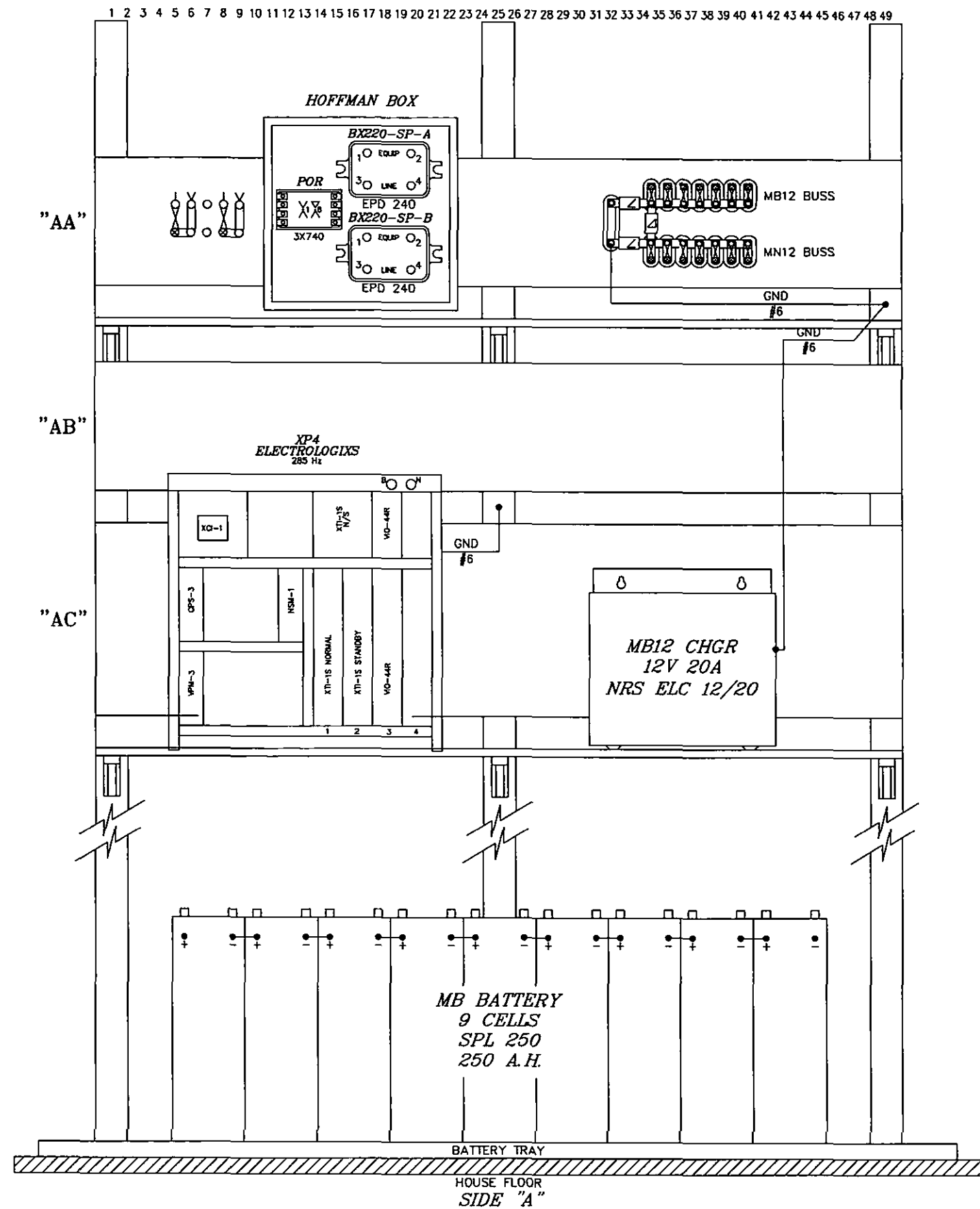



	<b>DIAMONDBACK SIGNAL</b> (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	WESTERN NEW YORK & PENNSYLVANIA RAILROAD	
	SCALE: NONE DATE: 6/10/2015	APPROVED BY:	DRAWN BY: ISIS REVISED:
PETROLEUM STREET - DOT # 262 844J OIL CITY, VENANGO COUNTY, PA		DRAWING NUMBER AC POWER DISTRIBUTION 32.99	

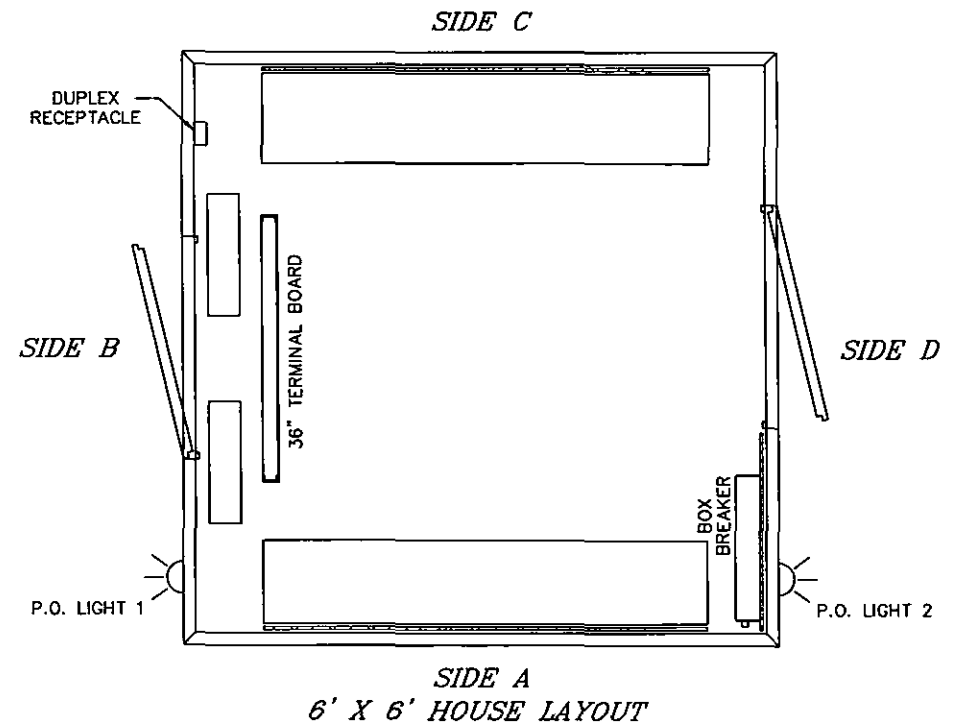
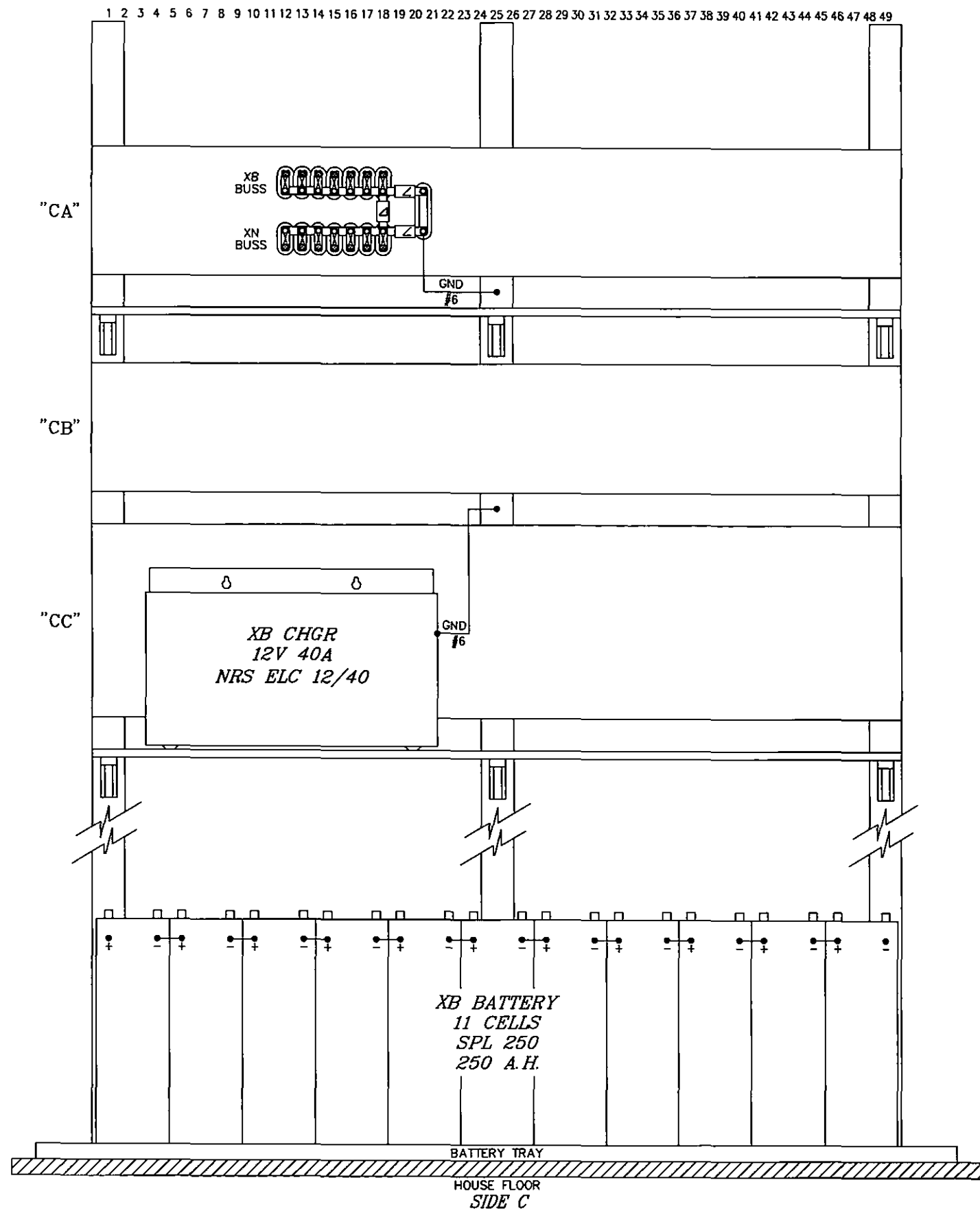


 <b>ISIS, LLC</b>	<b>DIAMONDBACK SIGNAL</b>		WESTERN NEW YORK & PENNSYLVANIA RAILROAD		
	(410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784		SCALE: NONE DATE: 6/10/2015	APPROVED BY:	DRAWN BY: ISIS REVISED:
	PETROLEUM STREET - DOT # 262 844J OIL CITY, VENANGO COUNTY, PA				
	TERMINAL BOARD LAYOUT			DRAWING NUMBER 32.99	





 <b>ISIS, LLC</b>	<b>DIAMONDBACK SIGNAL</b>		WESTERN NEW YORK & PENNSYLVANIA RAILROAD	
	SCALE: NONE	DATE: 6/10/2015	APPROVED BY:	DRAWN BY: ISIS
	(410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784			REVISID:
	PETROLEUM STREET - DOT # 262 844J OIL CITY, VENANGO COUNTY, PA			DRAWING NUMBER
WALL 'C' LAYOUT			32.99	



	<b>DIAMONDBACK SIGNAL</b>		WESTERN NEW YORK & PENNSYLVANIA RAILROAD	
	(410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	SCALE: NONE DATE: 6/10/2015	APPROVED BY:	DRAWN BY: ISIS REVISED:
	PETROLEUM STREET - DOT # 262 844J OIL CITY, VENANGO COUNTY, PA			DRAWING NUMBER
	WALL C LAYOUT			32.99

I hereby certify that I have this day served a true copy of the foregoing document upon the participants, listed below, in accordance with the requirements of § 5.14, by first class mail, postage prepaid:

### CERTIFICATE OF SERVICE

**MARK CHAPPELL PE CHIEF**  
ROW & UTILITY DIVISION  
PENNDOT BUREAU OF DESIGN  
PO BOX 3362  
HARRISBURG PA 17105-3362

**GINA M D'ALFONSO ESQUIRE**  
PENNDOT  
OFFICE OF CHIEF COUNSEL  
PO BOX 8212  
HARRISBURG PA 17105-8212

**Scott W. Bartholomew**  
PENNDOT DISTRICT 1-0  
255 ELM STREET  
PO BOX 398  
OIL CITY PA 16301

**Mr. Ron Hull, PE**  
Pennsylvania Public Utility Commission  
PO Box 3265  
Harrisburg, PA 17105-3265

**Mr. Lucas Brewer**  
Western NY & PA Railroad  
3146 Constitution Avenue  
Olean, NY 14760

**Mr. D. Shawn Starling, P.E.**  
Senior Engineer Public Improvements  
Norfolk Southern Railway Company  
1200 Peachtree Street  
Atlanta, GA 30309

**Mr. Jason Morris, Esq.**  
Norfolk Southern Railway Company  
Three Commercial Place  
Norfolk, VA 23510

**Mr. Timothy S. Brooks**  
Chairman Venango County Commissioners  
Courthouse Annex, 2nd Floor  
1174 Elk Street  
P.O. Box 831  
Franklin, PA 16323

PA P.U.C.  
SECRETARY'S BUREAU

2015 AUG 13 AH10:35

RECEIVED

**Mr. James C. Nelles**

City Manager  
The City of Oil City  
21 Seneca Street  
Oil City, PA 16301

**Ms. Chritina J. Sporer**

The City of Oil City  
21 Seneca Street  
Oil City, PA 16301

**Mr. Charles Vroman**

Pennsylvania Electric Company  
1600 W. First St.  
Erie, PA 16558

**Mr. Brent Hoover**

Nation Fuel Gas Distribution Corp.  
1100 State Street  
Erie, PA 16512

**Ms. Barb Witkowski**

Verizon North LLC  
20 East Tenth Street  
Erie, PA 16512

**Mr. Matt Hill**

Level 3 Communications LLC  
200 Technology Dr.  
Pittsburgh, PA 15219

We respectfully request the approval of these plans. Should you have any questions or concerns, please contact me.

Dated this 6<sup>th</sup> day of August, 2015.



Kevin Lamb  
(410) 795-9601



**DIAMONDBACK SIGNAL**

5965 Exchange Drive  
Suite D  
Sykesville, MD 21784

ROSEMARY CHIAVETTA, SECRETARY  
PENNSYLVANIA PUBLIC UTILITY COMMISSION

PO Box 3265

HARRISBURG, PA 17105-3265

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Baltimore PFD 212