



November 21, 2024

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

In re: **A-2024-3049330**, application of the Commonwealth of Pennsylvania, Department of Transportation, for approval to alter (8) public at-grade crossing by the installation of new train activated automatic lights and circuitry and new crossing surfaces where various where the (8) public at-grade crossings crosses the single track of the SEDA COG Joint Rail Authority (JRA) operated by the North Shore Railroad located in Selinsgrove Borough, Penn Township, and Middlecreek Township; **All in accordance with the Federal Grade Crossing Program**; and the allocation of costs incident thereto.

<u>Number</u>	<u>Highway Route</u>	<u>DOT No.</u>	<u>Municipality</u>	<u>County</u>
1	Water Street	517 518 P	Selinsgrove Boro.	Snyder
2	Strawberry Alley	517 519 W	Selinsgrove Boro.	Snyder
3	S.R. 2017 (Market Street)	517 520 R	Selinsgrove Boro.	Snyder
4	West Pine Street	517 521 X	Selinsgrove Boro.	Snyder
5	University Avenue	517 522 E	Selinsgrove Boro.	Snyder
6	S.R. 2016 (Clifford Road)	517 523 L	Penn Twp.	Snyder
7	Pawling Station Road (T-462)	950 926 P	Penn Twp.	Snyder
8	Freeburg Road (T-418)	517 535 F	Middlecreek Twp.	Snyder

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 SEDA COG Joint Rail Authority (JRA).

Sincerely,

Kemp Buettner
Vice President

Enclosures

Similar Letter List
A-2024-3049330

John Klinger
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Shamokin, PA 17872
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Greg Pysher
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Similar Letter List
A-2024-3049330

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Grade Crossing Manager
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Colin Klebon
UGI Utilities, Inc.
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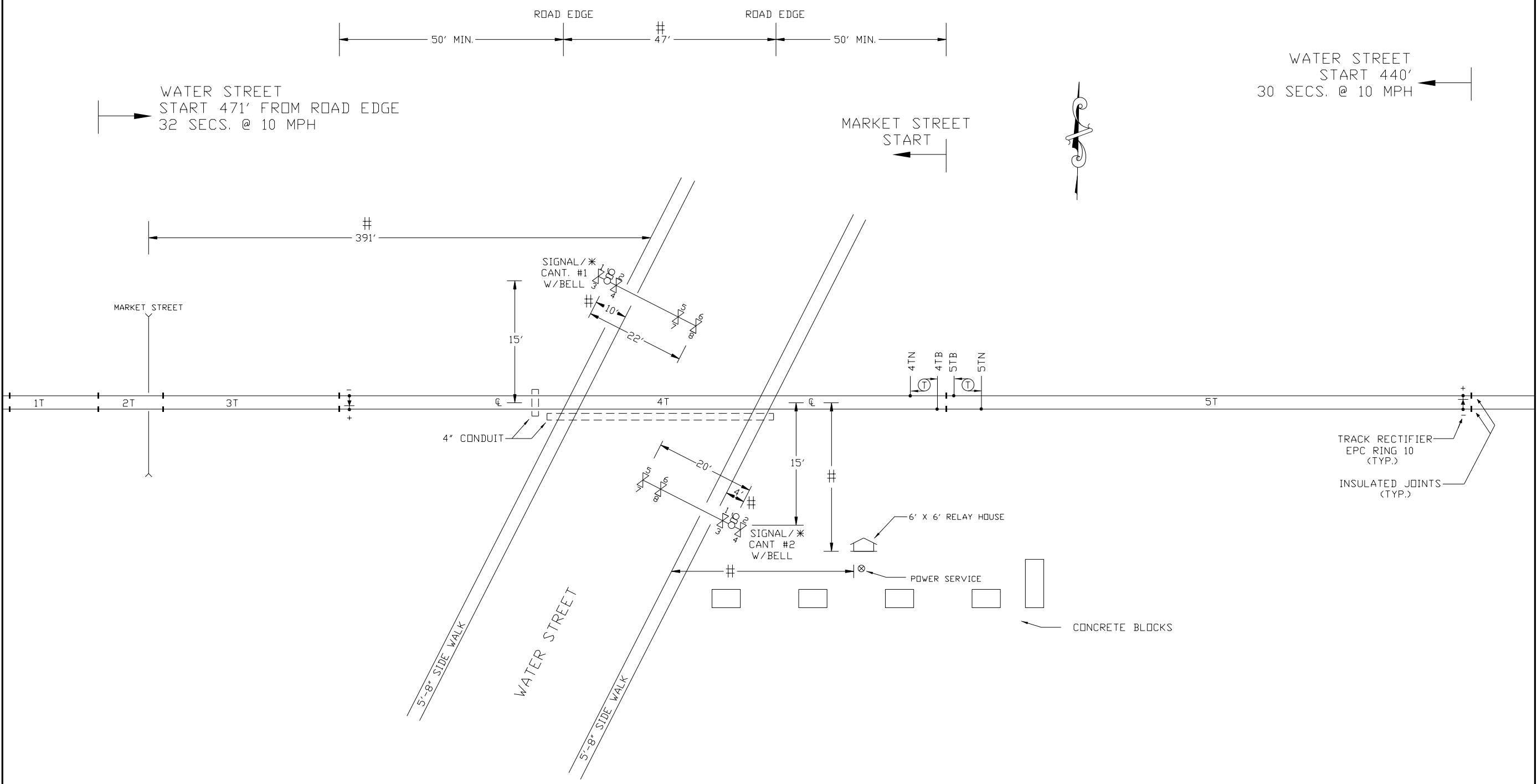
Gerald Wertz, P.E.
Assistant District Executive
Pennsylvania Department of Transportation
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WATER STREET
START 440'
30 SECS. @ 10 MPH

WATER STREET
START 471' FROM ROAD EDGE
32 SECS. @ 10 MPH

MARKET STREET
START

TRACK RECTIFIER
EPC RING 10
(TYP.)
INSULATED JOINTS
(TYP.)

- FIELD TO VERIFY ALL MEASUREMENTS
* - GATE READY

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)
- (T) DENOTES TWIST PAIR.
- ISLAND CIRCUIT MUST BE A MINIMUM OF 120' IN LENGTH

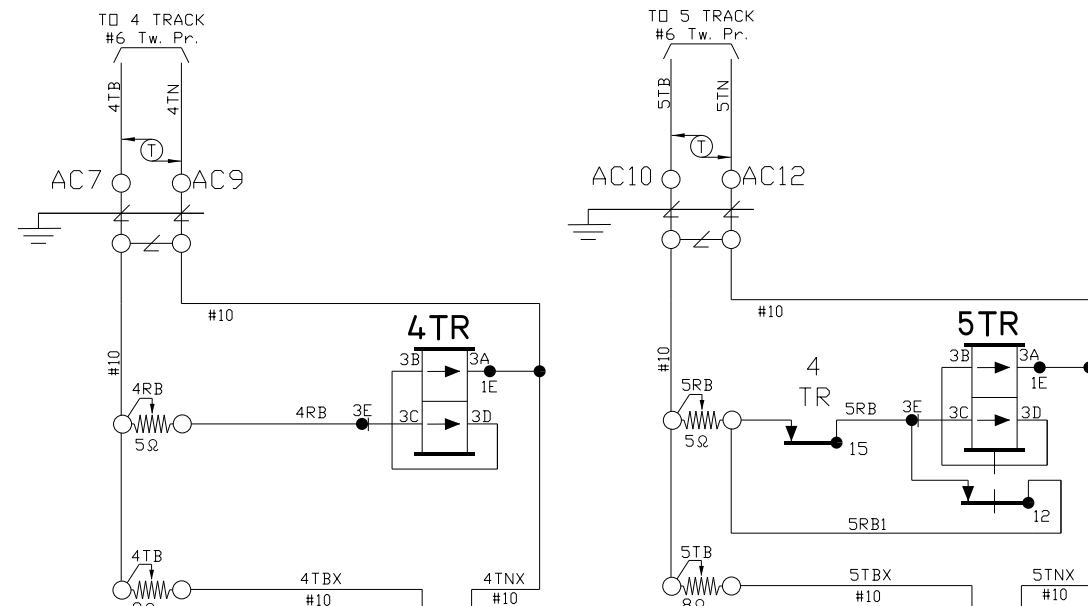
CABLE RUN TABULATION

HOUSE TO SIGNAL #1 (GATE READY)	- 5/C #6 UG CABLE
HOUSE TO SIGNAL #2 (GATE READY)	- 7/C #14 UG CABLE
HOUSE TO AC SERVICE	- 5/C #6 UG CABLE
HOUSE TO 4TN & 4TB	- 7/C #14 UG CABLE
HOUSE TO 5TN & 5TB	- 3/C #9 UG CABLE
HOUSE TO MARKET STREET	- 2/C #6 TW. PAIR UG CABLE
	- 2/C #6 TW. PAIR UG CABLE
	- 7/C #14 UG CABLE

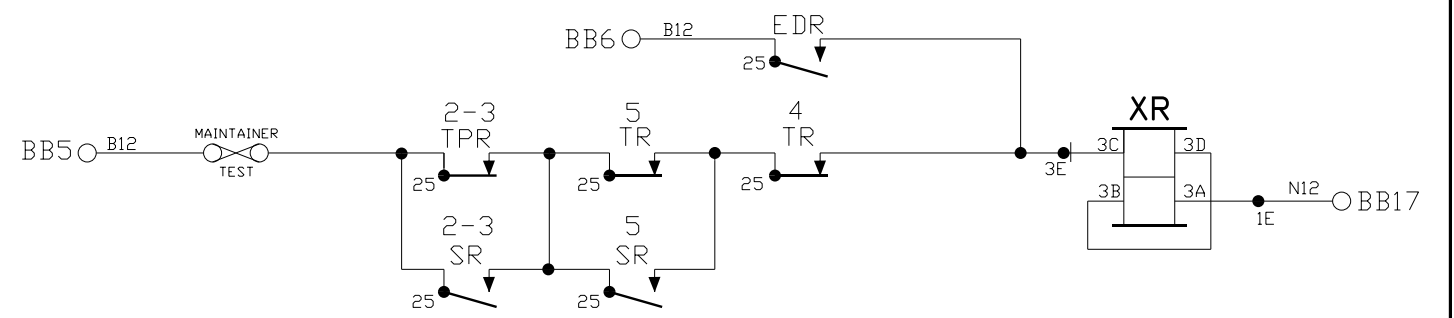
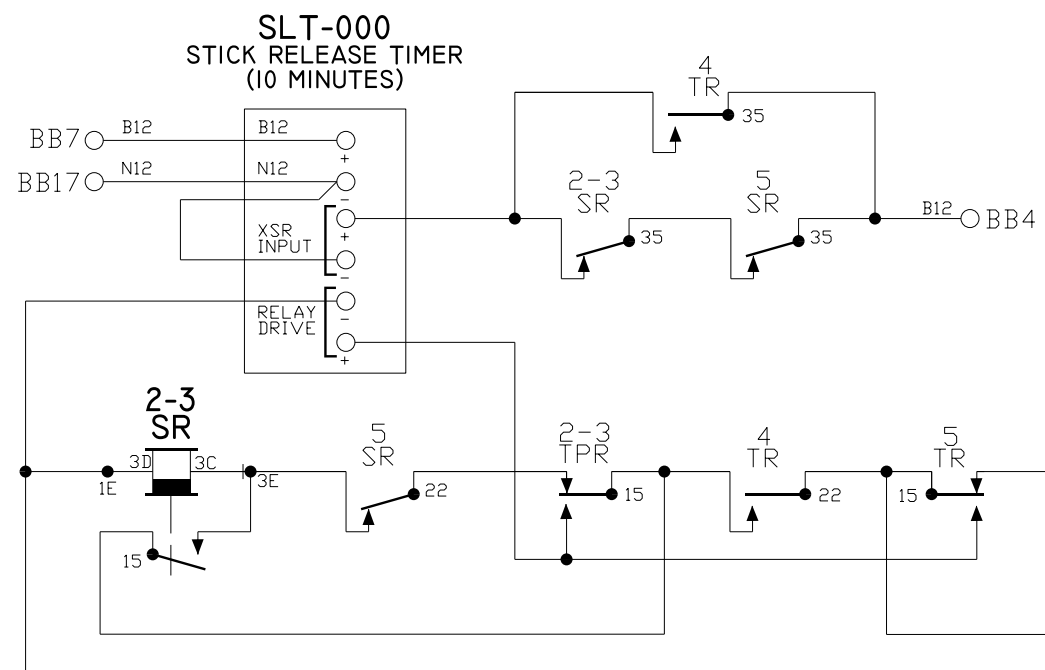
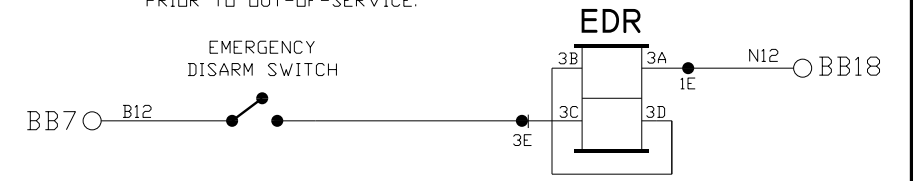
AS WIRED XX/XX/XXXX AS INSTALLED XX/XX/XXXX

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

NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES		
SCALE: NONE	APPROVED BY:	DRAWN BY: NST
DATE: 01/18/24		REVISED:
WATER STREET - DOT # 517 518P MP. 01.02 SELINGROVE, SNYDER COUNTY, PA		
TRACK & CABLE PLAN		DRAWING NUMBER



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

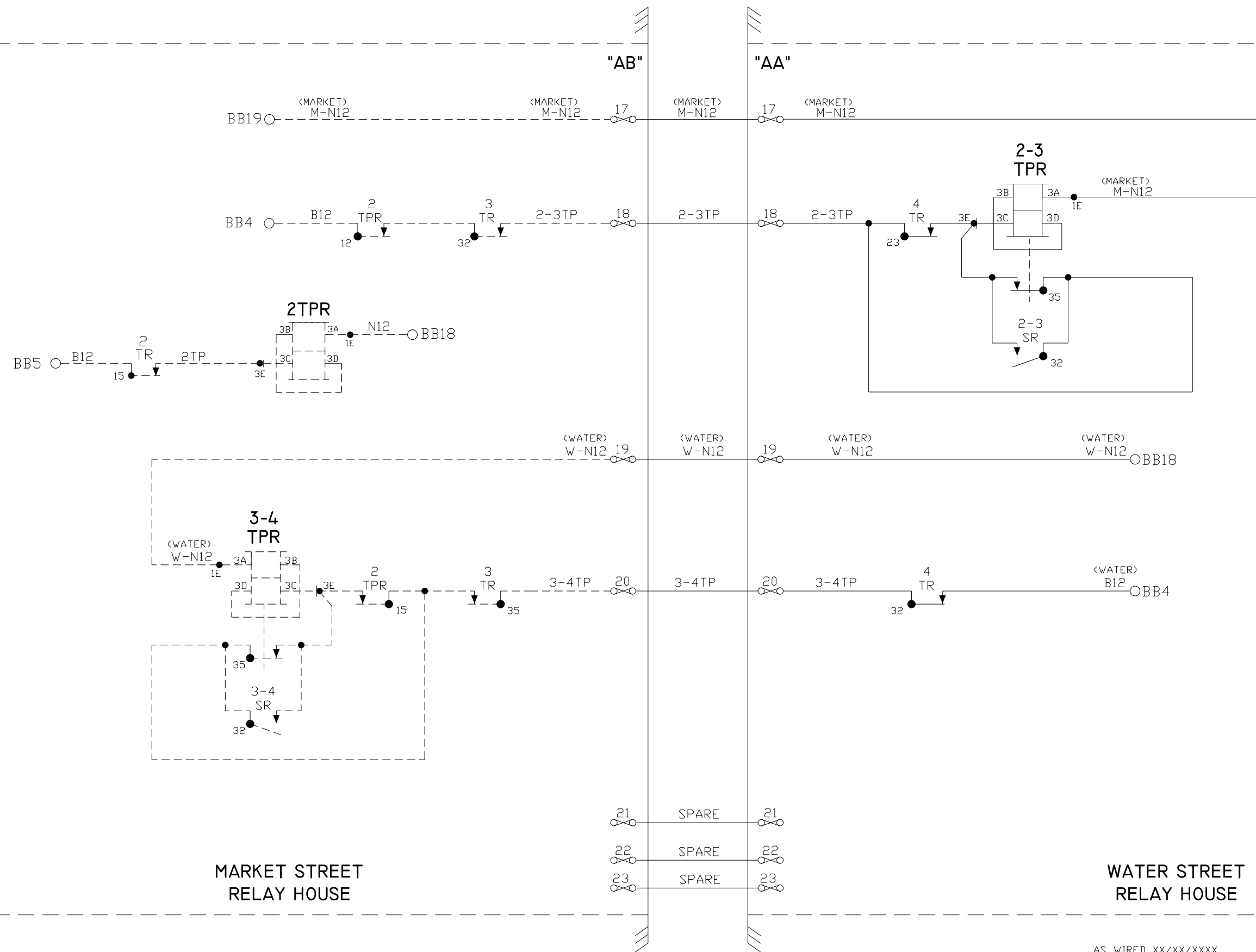


- NOTES:
 1. ALL WIRE THIS SHEET IS #14 AWG FLEX UNLESS OTHERWISE NOTED.
 2. $\text{\textcircled{T}}$ DENOTES TWISTED PAIR.

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

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

NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES		
SCALE: NONE	APPROVED BY:	DRAWN BY: NST
DATE: 01/18/24		REVISED:
WATER STREET - DOT # 517 518P MP. 01.02 SELINGROVE, SNYDER COUNTY, PA		
CIRCUIT PLAN "A"		DRAWING NUMBER

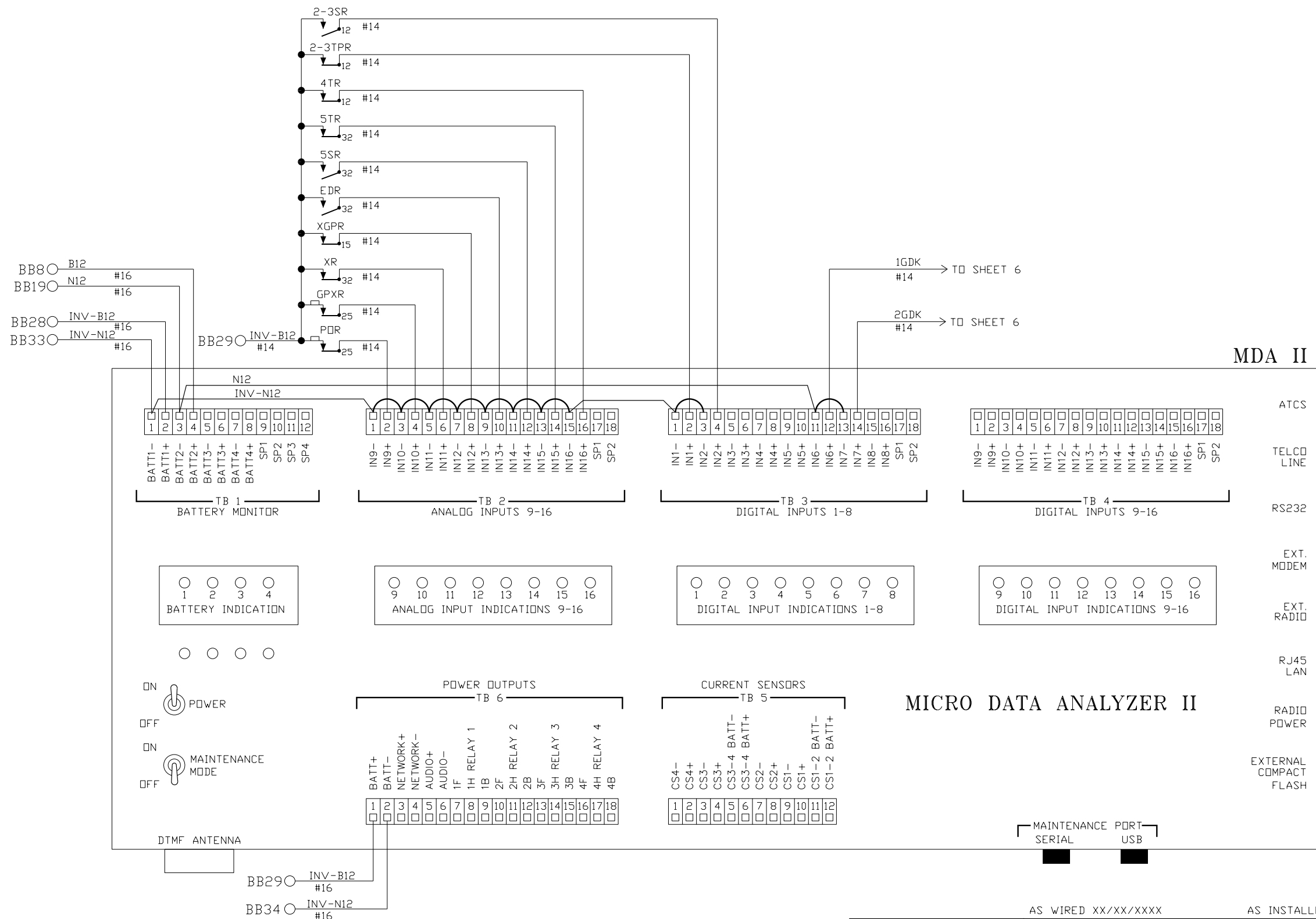


MARKET STREET
RELAY HOUSE

WATER STREET
RELAY HOUSE

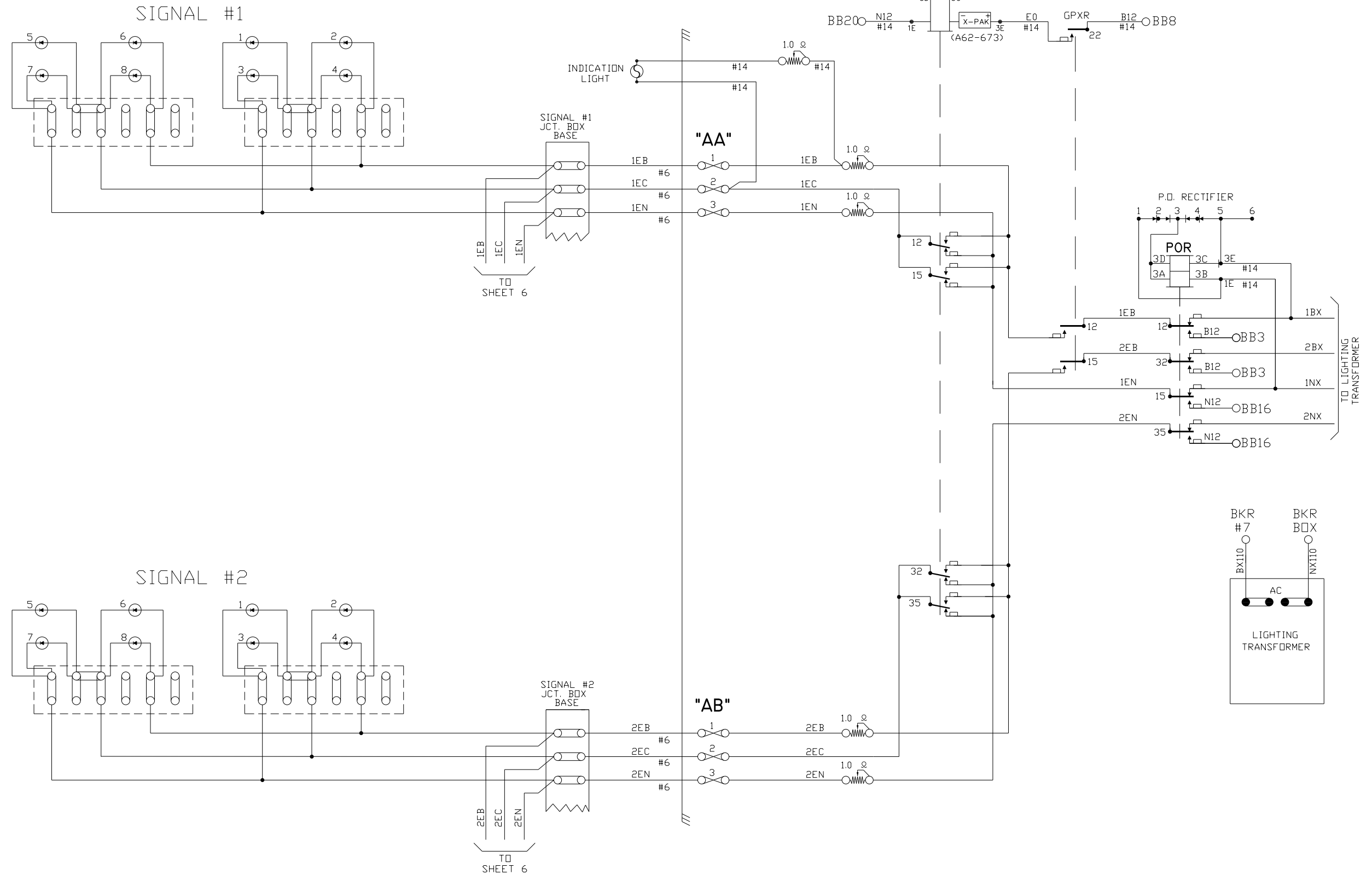
- NOTES:
1. ALL WIRE THIS SHEET IS #14 AWG FLEX UNLESS OTHERWISE NOTED.
 2. \overline{T} DENOTES TWISTED PAIR.

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED XX/XX/XXXX		AS INSTALLED XX/XX/XXXX	
	NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:		DRAWN BY: NST
	DATE: 01/18/24	REVISI		REVISED:
WATER STREET - DOT # 517 518P MP. 01.02 SELINGROVE, SNYDER COUNTY, PA				DRAWING NUMBER
CIRCUIT PLAN "B"				



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

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED XX/XX/XXXX		AS INSTALLED XX/XX/XXXX	
	NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:	DRAWN BY: NST	
	DATE: 01/18/24		REVISED:	
WATER STREET - DOT # 517 518P MP. 01.02 SELINGROVE, SNYDER COUNTY, PA				
CIRCUIT PLAN "C"			DRAWING NUMBER	



- NOTES:
1. ALL WIRE THIS SHEET IS #10 AWG. FLEX UNLESS OTHERWISE NOTED.
 2. FLASHER RELAY W/X-PAK (A62-673)

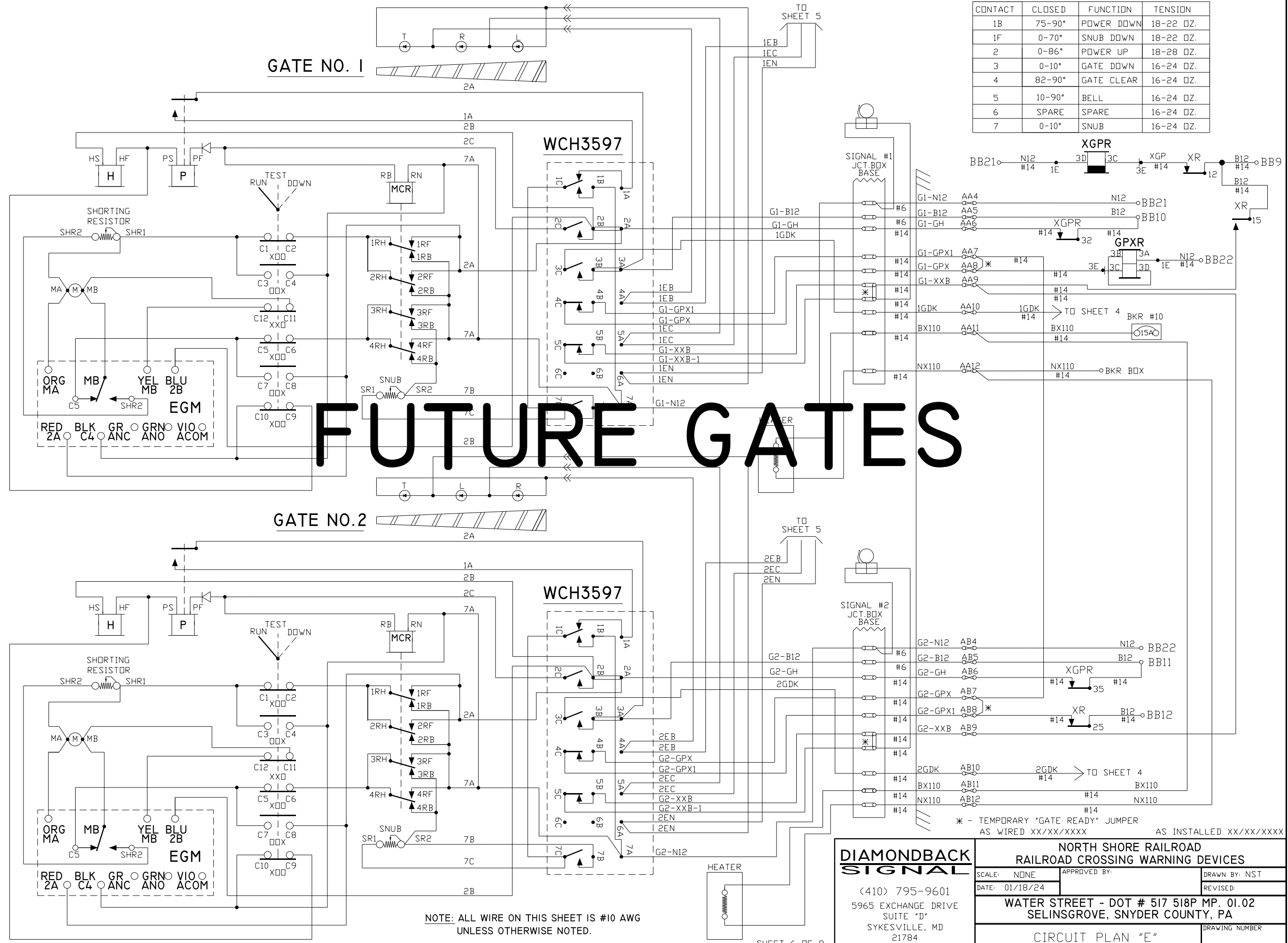
DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED XX/XX/XXXX		AS INSTALLED XX/XX/XXXX	
	NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:	DRAWN BY: NST	
	DATE: 01/18/24	REVISER:	REVISIONS:	
WATER STREET - DOT # 517 518P MP. 01.02 SELINGROVE, SNYDER COUNTY, PA			DRAWING NUMBER	
CIRCUIT PLAN "D"				

GATE NO. 1

GATE NO. 2

CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.

FUTURE GATES

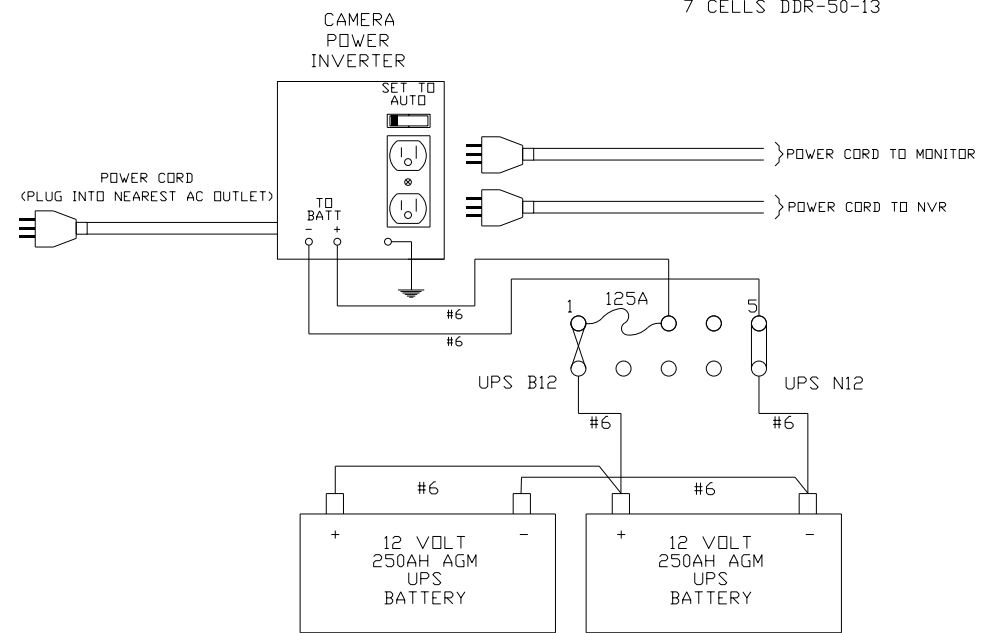
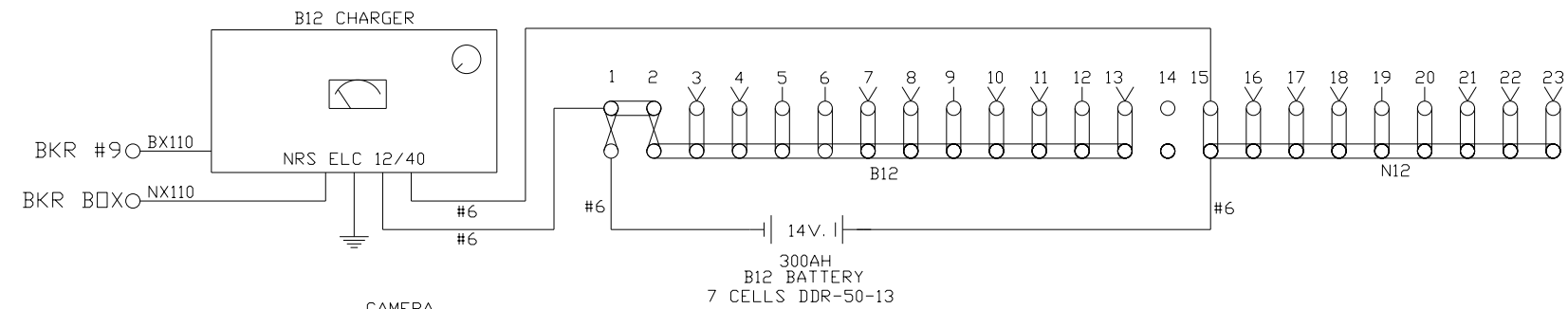
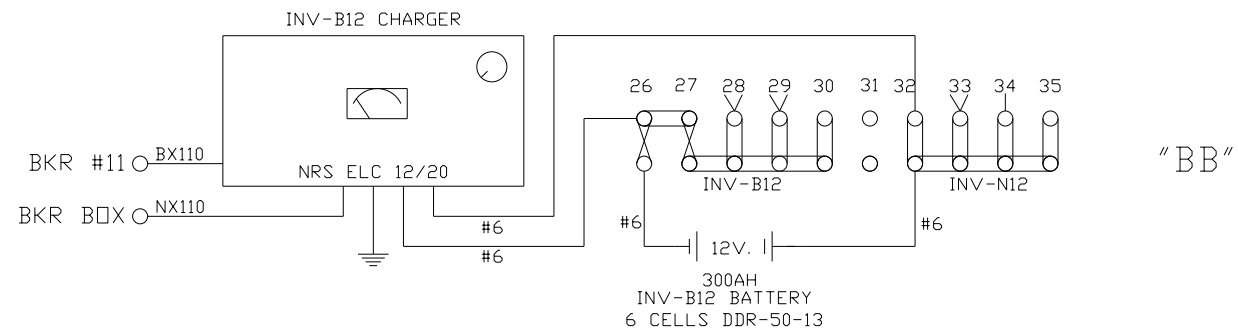


* - TEMPORARY "GATE READY" JUMPER AS WIRED XX/XX/XXXX AS INSTALLED XX/XX/XXXX

NOTE: ALL WIRE ON THIS SHEET IS #10 AWG UNLESS OTHERWISE NOTED.

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

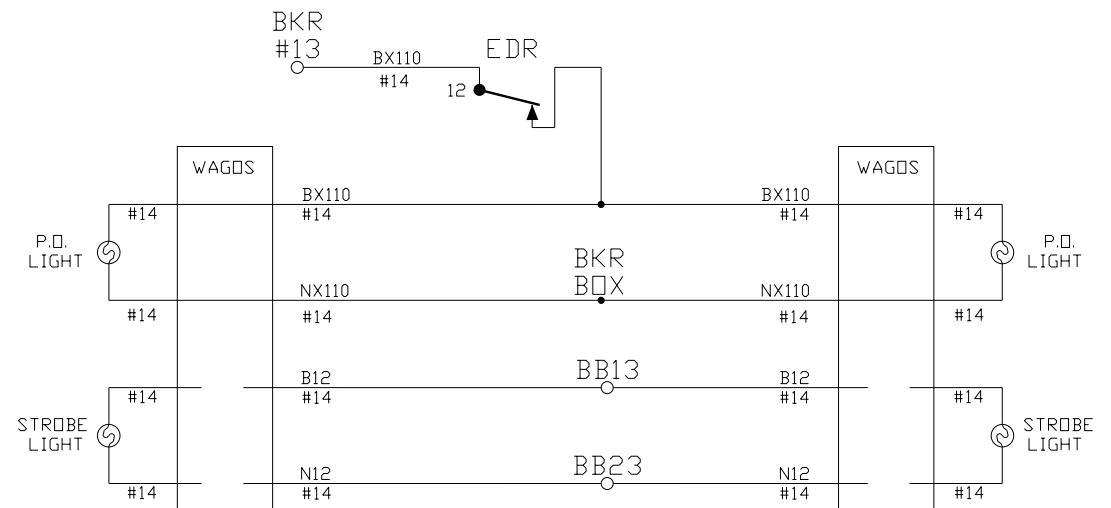
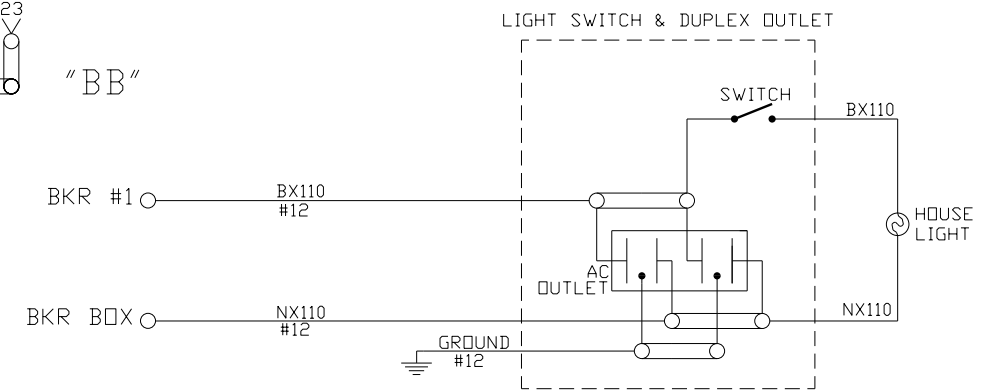
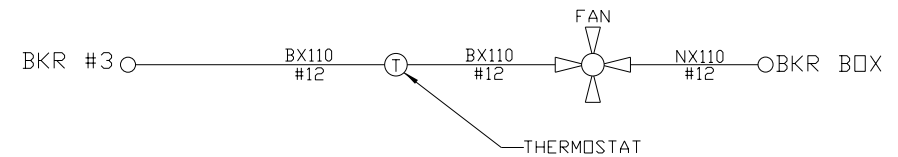
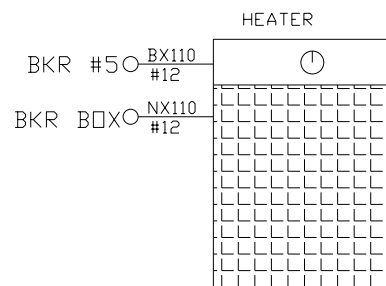
NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES		
SCALE: NONE	APPROVED BY:	DRAWN BY: NST
DATE: 01/18/24		REVISED:
WATER STREET - DOT # 517 518P MP. 01.02 SELINGROVE, SNYDER COUNTY, PA		
CIRCUIT PLAN "E"		DRAWING NUMBER



ERICO EPD 120/240 VENT FAN THERMOSTAT

BREAKER BOX

LIGHTS & OUTLET	1	2	MAIN
FAN	3	4	
HOUSE HEATER	5	6	GEN
LG. TRANS.	7	8	
B12 CHARGER	9	10	GATE HEATERS
INV-B12 CHARGER	11	12	
PO LIGHTS	13	14	NOT USED
NOT USED	15	16	



NOTE:
ALL WIRE THIS SHEET IS #10 AWG FLEX
UNLESS OTHERWISE NOTED.

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

DIAMONDBACK SIGNAL

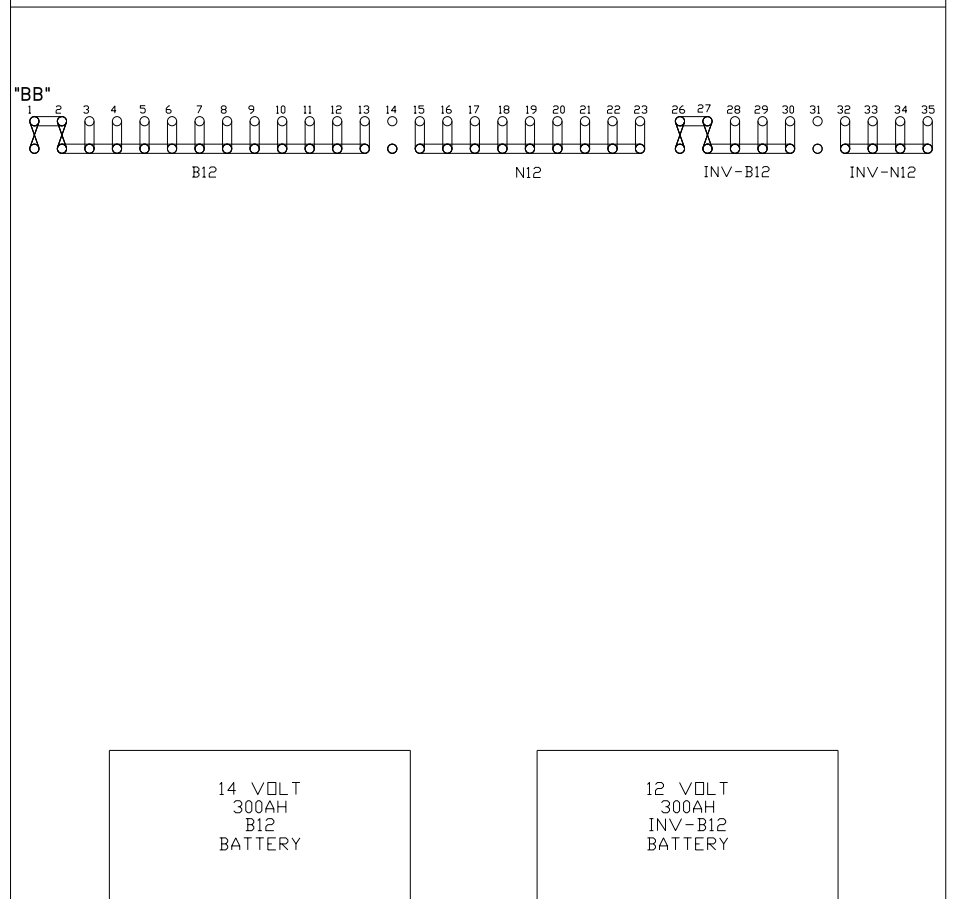
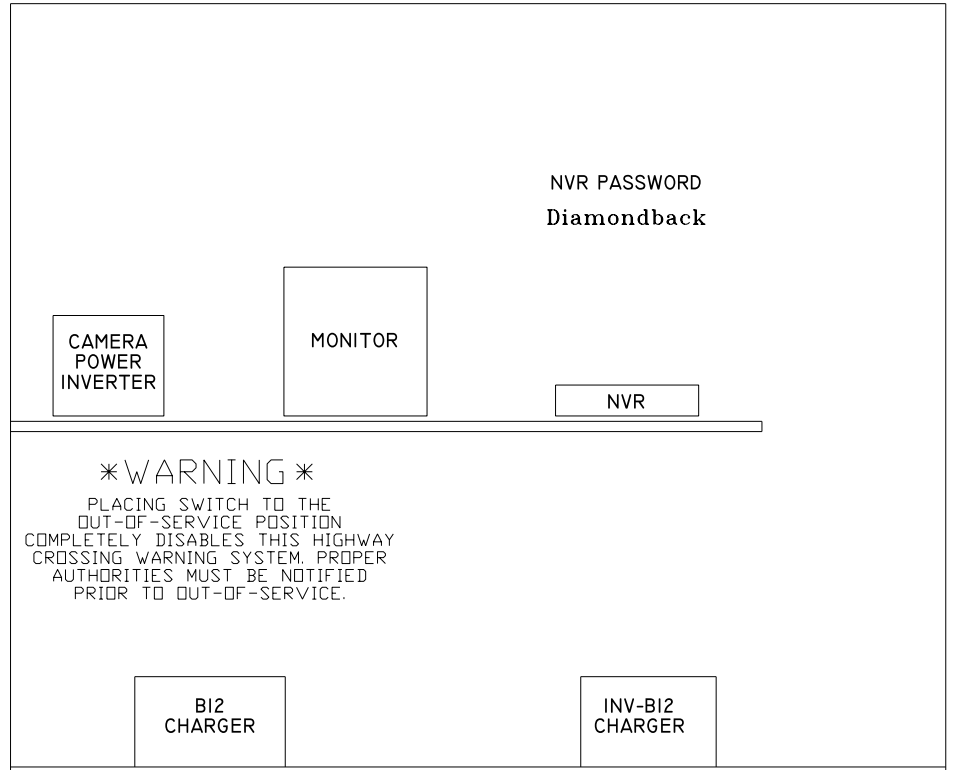
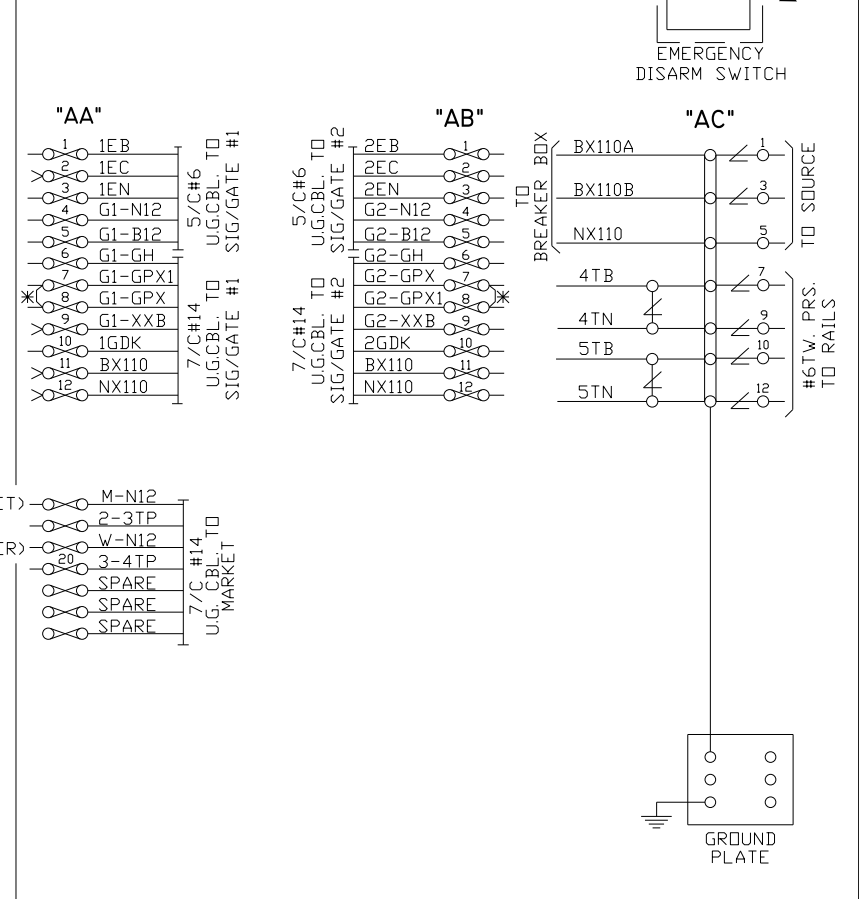
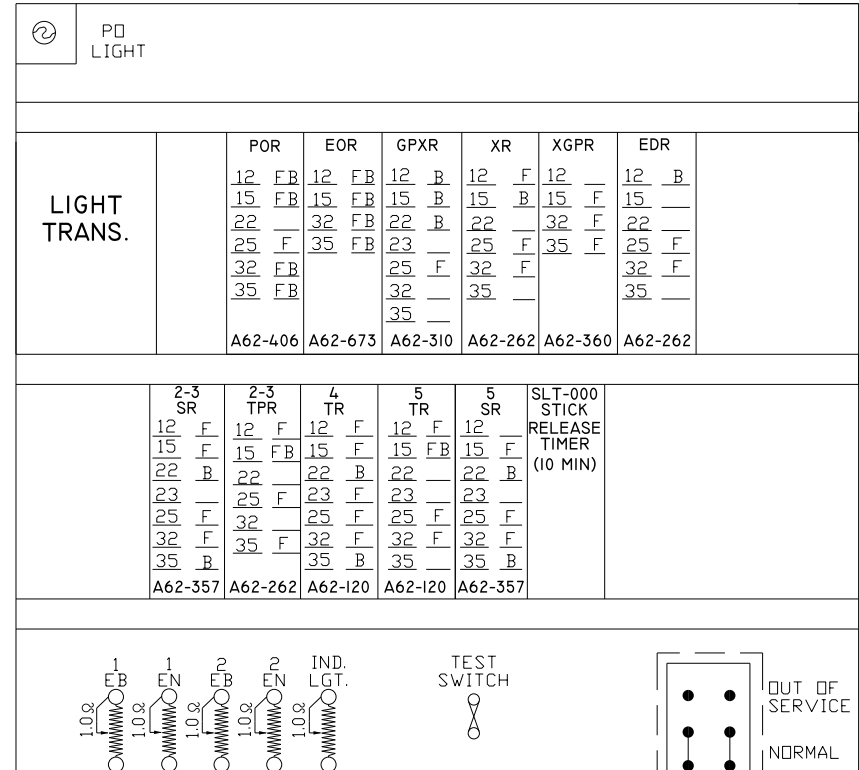
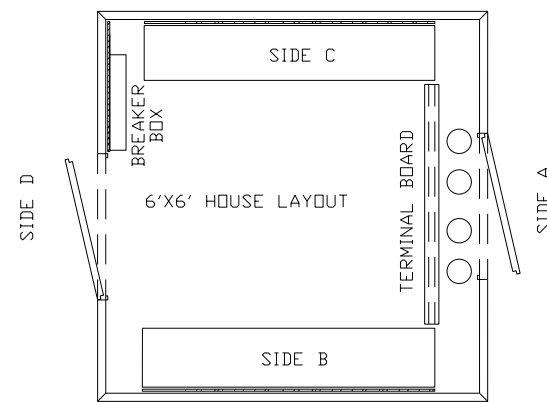
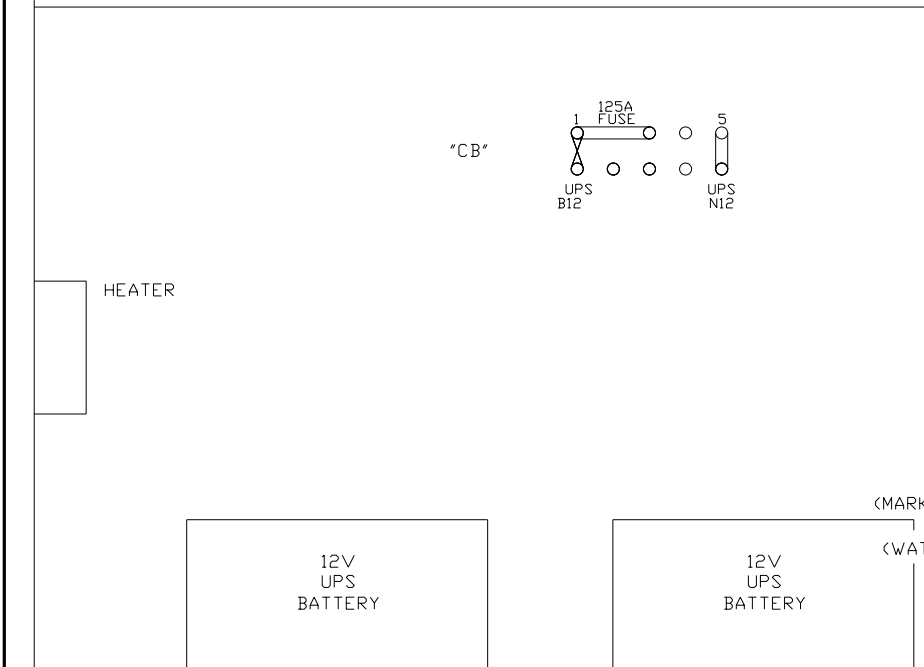
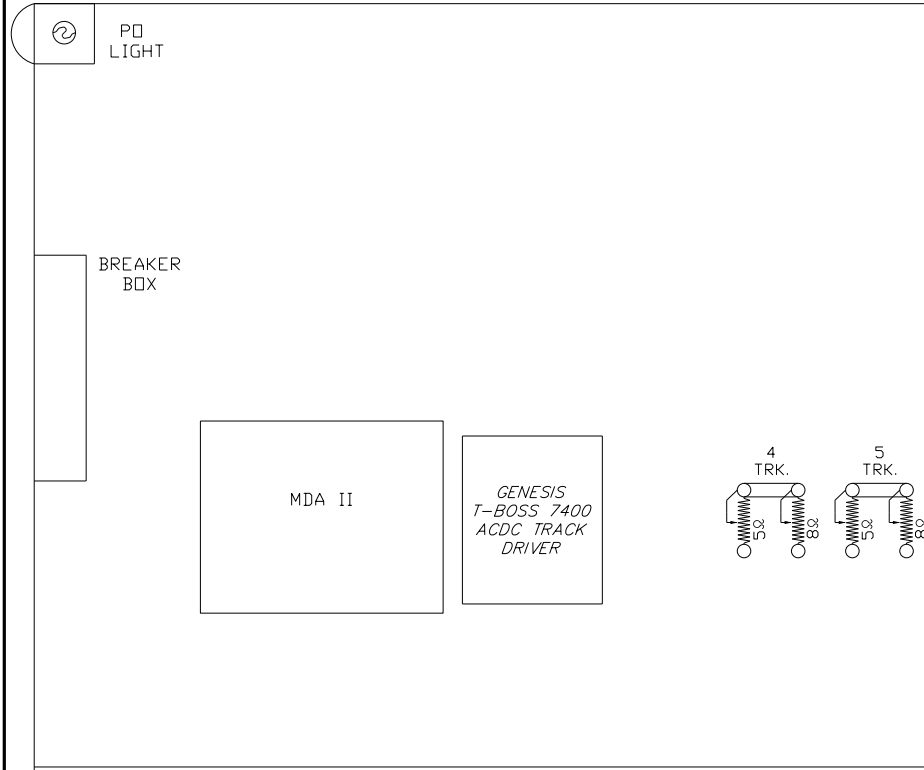
(410) 795-9601
5965 EXCHANGE DRIVE
SUITE "D"
SYKESVILLE, MD
21784

NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES		
SCALE: NONE	APPROVED BY:	DRAWN BY: NST
DATE: 01/18/24		REVISED:
WATER STREET - DOT # 517 518P MP. 01.02 SELINGROVE, SNYDER COUNTY, PA		
CIRCUIT PLAN "F"		DRAWING NUMBER

SIDE "C"

SIDE "A"

SIDE "B"



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

DIAMONDBACK SIGNAL

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

NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES

SCALE: NONE APPROVED BY: DRAWN BY: NST
DATE: 01/18/24 REVISED:

WATER STREET - DOT # 517 518P MP. 01.02 SELINGROVE, SNYDER COUNTY, PA

RELAY HOUSE LAYOUT DRAWING NUMBER

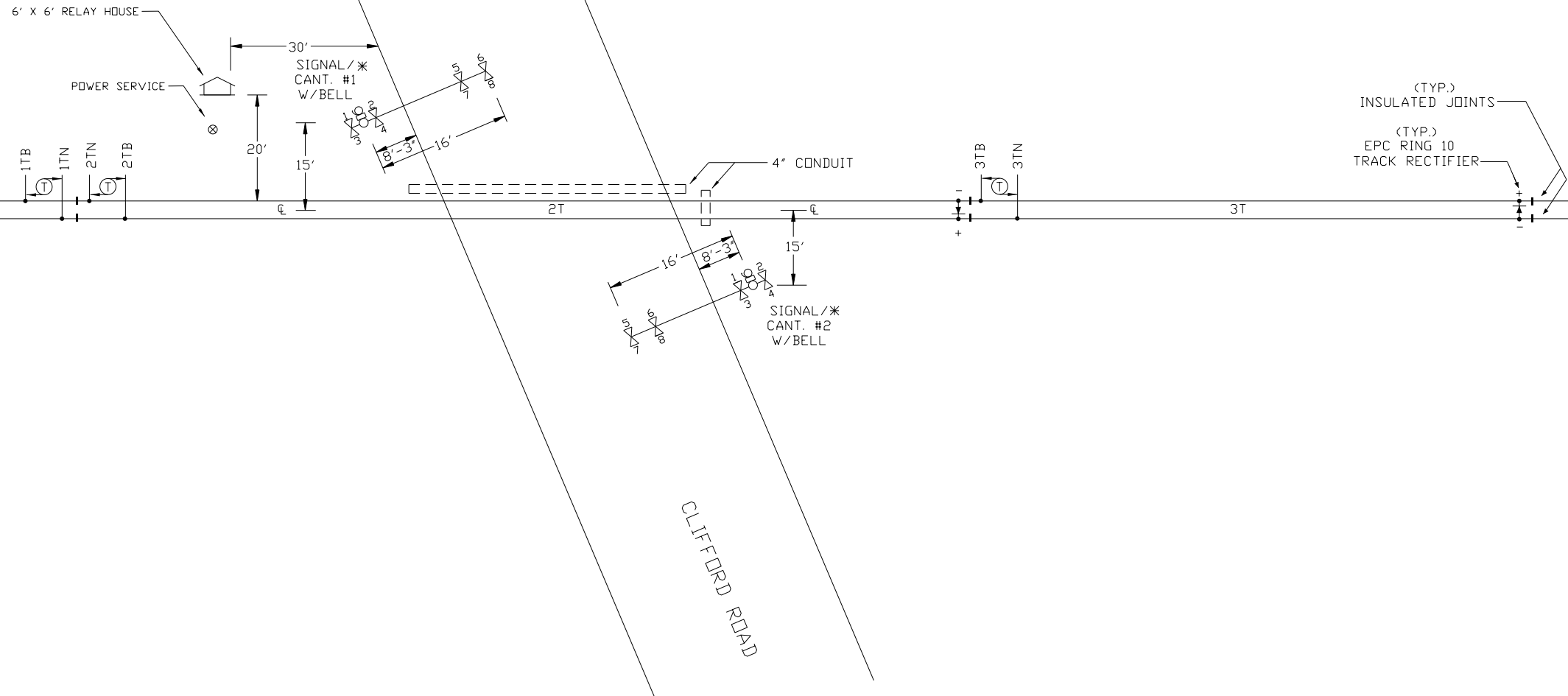
* - TEMPORARY "GATE READY" JUMPER

WEST

EAST

START 440'
30 SECS. @ 10 MPH

START 440'
30 SECS. @ 10 MPH



- FIELD TO VERIFY ALL MEASUREMENTS
* - GATE READY

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

CABLE RUN TABULATION

HOUSE TO SIGNAL #1 (GATE READY)	- 5/C #6 UG CABLE
HOUSE TO SIGNAL #2 (GATE READY)	- 7/C #14 UG CABLE
HOUSE TO AC SERVICE	- 5/C #6 UG CABLE
HOUSE TO 1TN & 1TB	- 7/C #14 UG CABLE
HOUSE TO 2TN & 2TB	- 3/C #9 UG CABLE
HOUSE TO 3TN & 3TB	- 2/C #6 TW. PAIR UG CABLE
	- 2/C #6 TW. PAIR UG CABLE

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

DIAMONDBACK SIGNAL

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

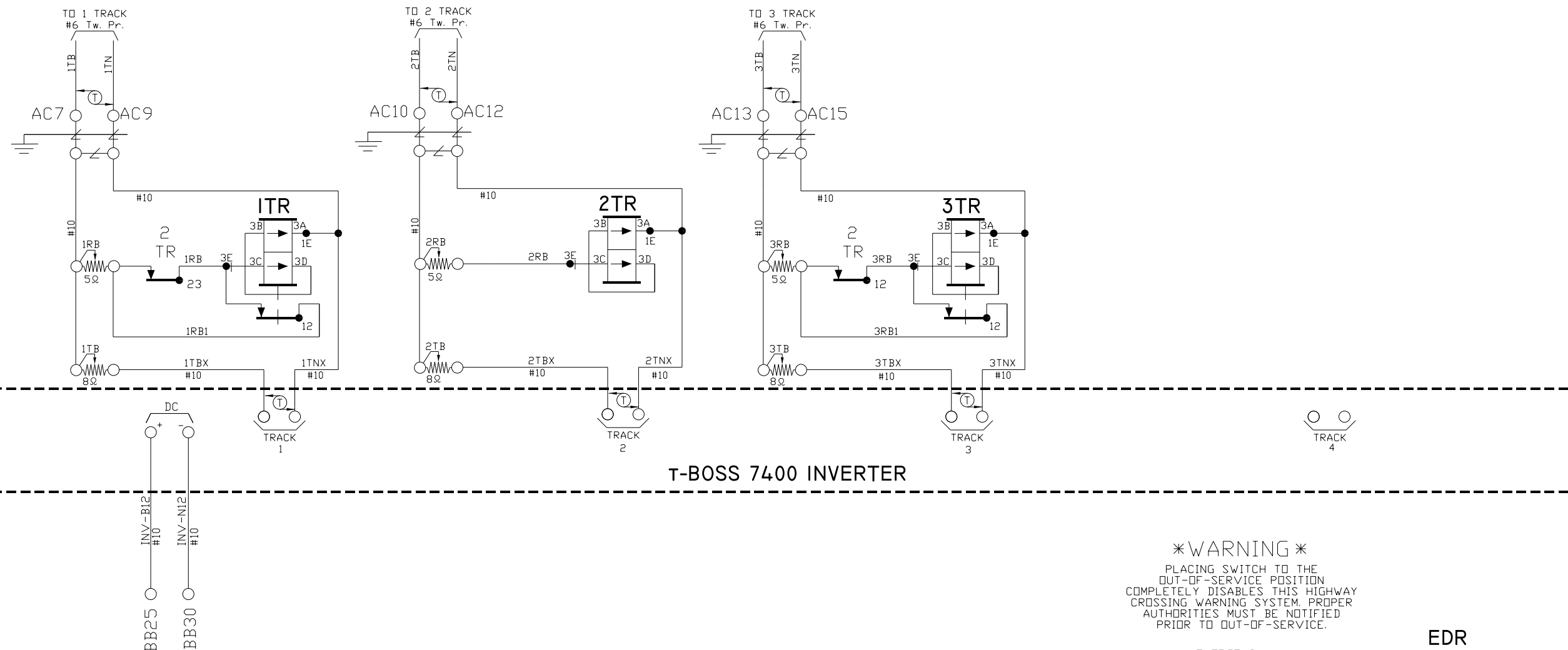
**NORTH SHORE RAILROAD
RAILROAD CROSSING WARNING DEVICES**

SCALE: NONE	APPROVED BY:	DRAWN BY: NST
DATE: 01/18/24		REVISED:

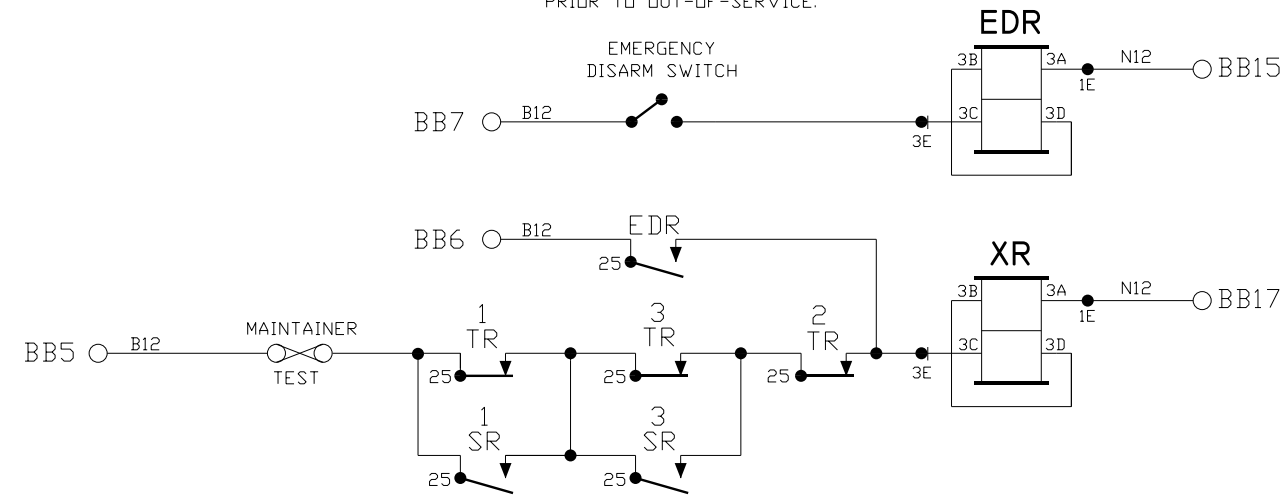
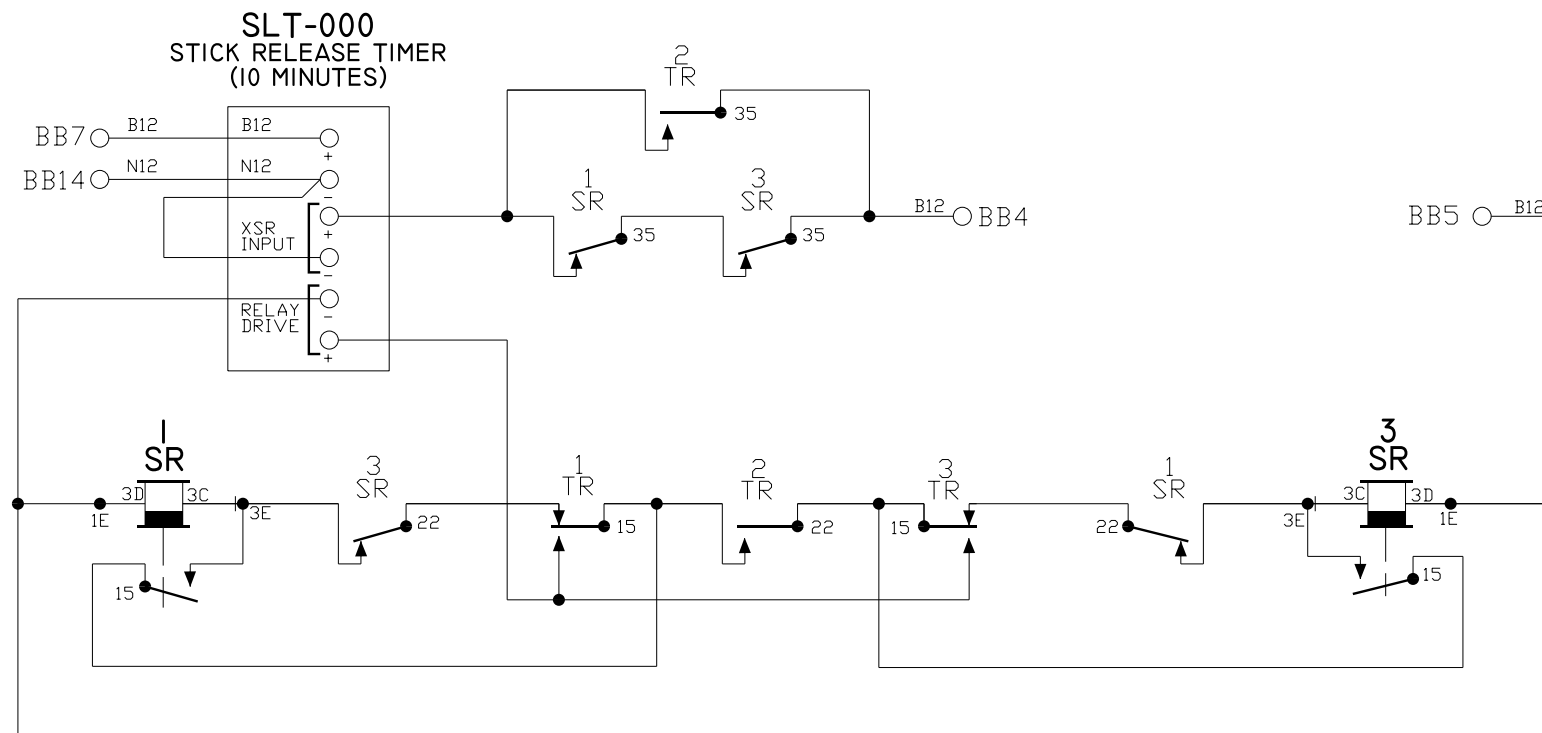
**CLIFFORD ROAD - DOT # 517 523L MP. 03.83
SELINGROVE, SNYDER COUNTY, PA**

TRACK & CABLE PLAN

DRAWING NUMBER



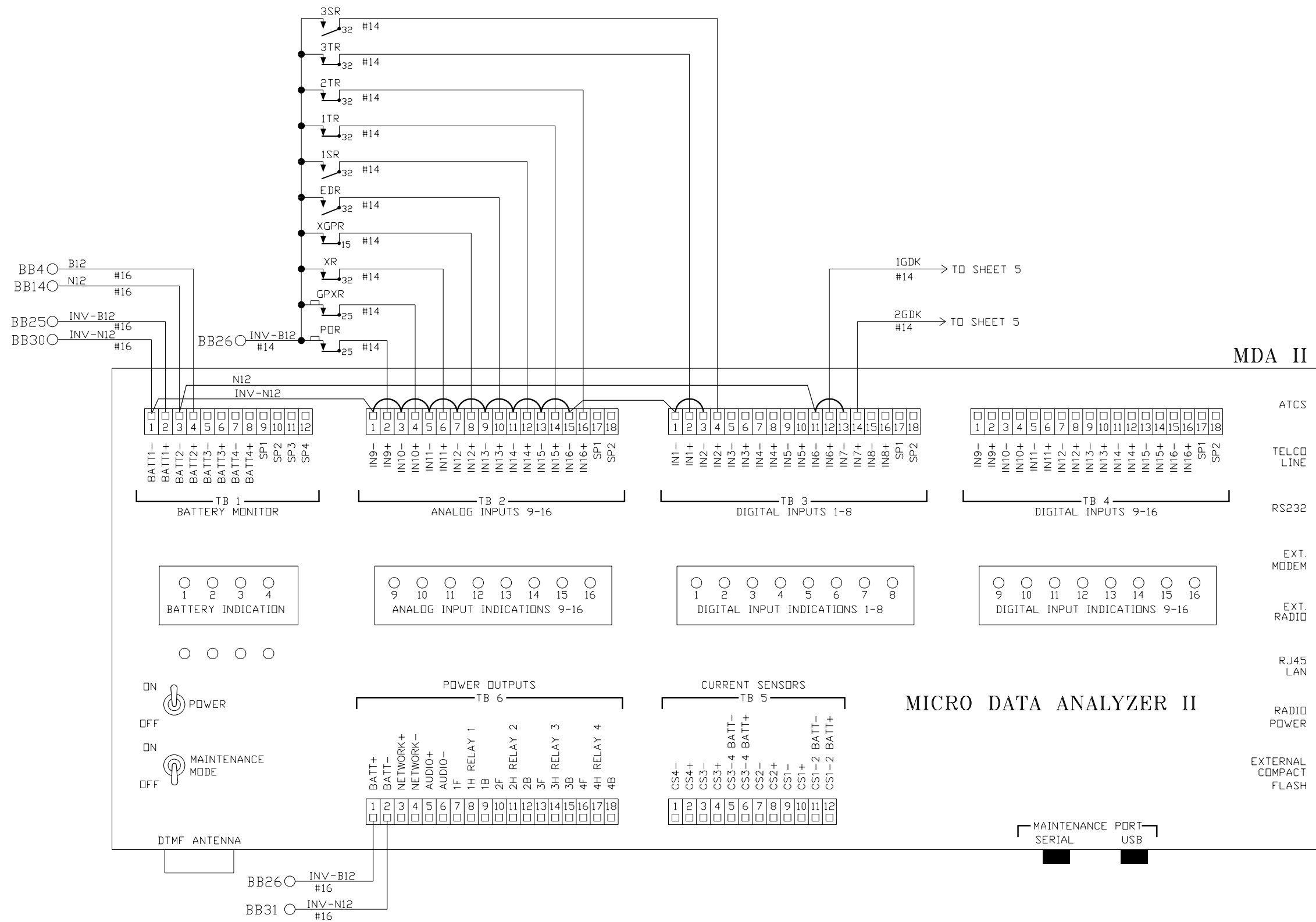
WARNING
 PLACING SWITCH TO THE
 OUT-OF-SERVICE POSITION
 COMPLETELY DISABLES THIS HIGHWAY
 CROSSING WARNING SYSTEM. PROPER
 AUTHORITIES MUST BE NOTIFIED
 PRIOR TO OUT-OF-SERVICE.



- NOTES:
1. ALL WIRE THIS SHEET IS #14 AWG FLEX UNLESS OTHERWISE NOTED.
 2. $\text{\textcircled{T}}$ DENOTES TWISTED PAIR.

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

DIAMONDBACK SIGNAL		NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES	
(410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784		DATE: 01/18/24	REVISED:
		CLIFFORD ROAD - DOT # 517 523L MP. 03.83 SELINGROVE, SNYDER COUNTY, PA	
CIRCUIT PLAN "A"			

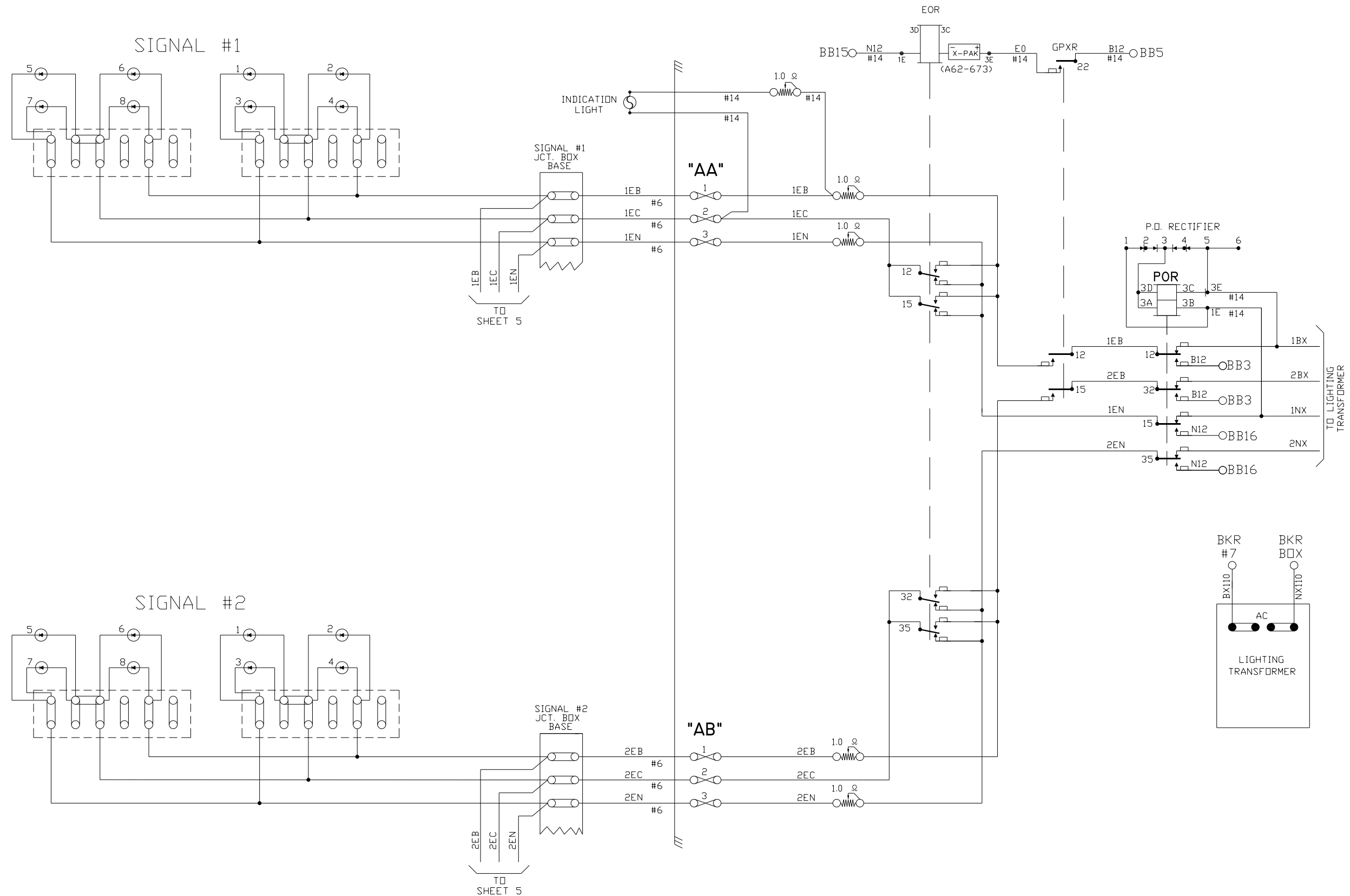


NOTES:
 1. ALL WIRE THIS SHEET #10 UNLESS OTHERWISE NOTED.
 2. DENOTES TWISTED PAIR.

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

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

NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES		
SCALE: NONE	APPROVED BY:	DRAWN BY: NST
DATE: 01/18/24		REVISED:
CLIFFORD ROAD - DOT # 517 523L MP. 03.83 SELINGROVE, SNYDER COUNTY, PA		
CIRCUIT PLAN "B"		DRAWING NUMBER



- NOTES:
1. ALL WIRE THIS SHEET IS #10 AWG. FLEX UNLESS OTHERWISE NOTED.
 2. FLASHER RELAY W/X-PAK (A62-673)

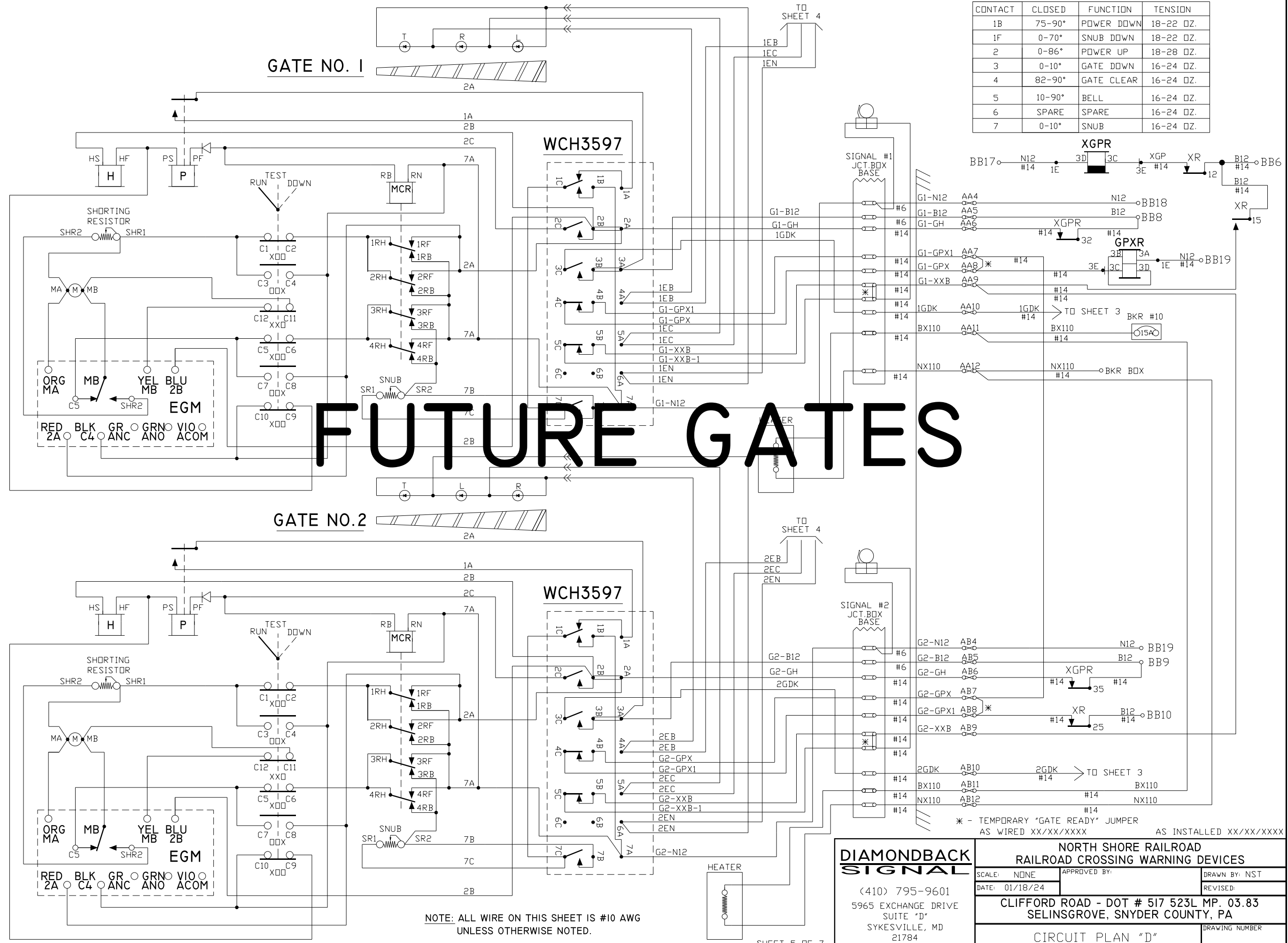
DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED XX/XX/XXXX		AS INSTALLED XX/XX/XXXX	
	NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:	DRAWN BY: NST	
	DATE: 01/18/24	REVISI:	REVISED:	
CLIFFORD ROAD - DOT # 517 523L MP. 03.83 SELINGROVE, SNYDER COUNTY, PA				
CIRCUIT PLAN "C"			DRAWING NUMBER	

GATE NO. 1

GATE NO. 2

CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.

FUTURE GATES



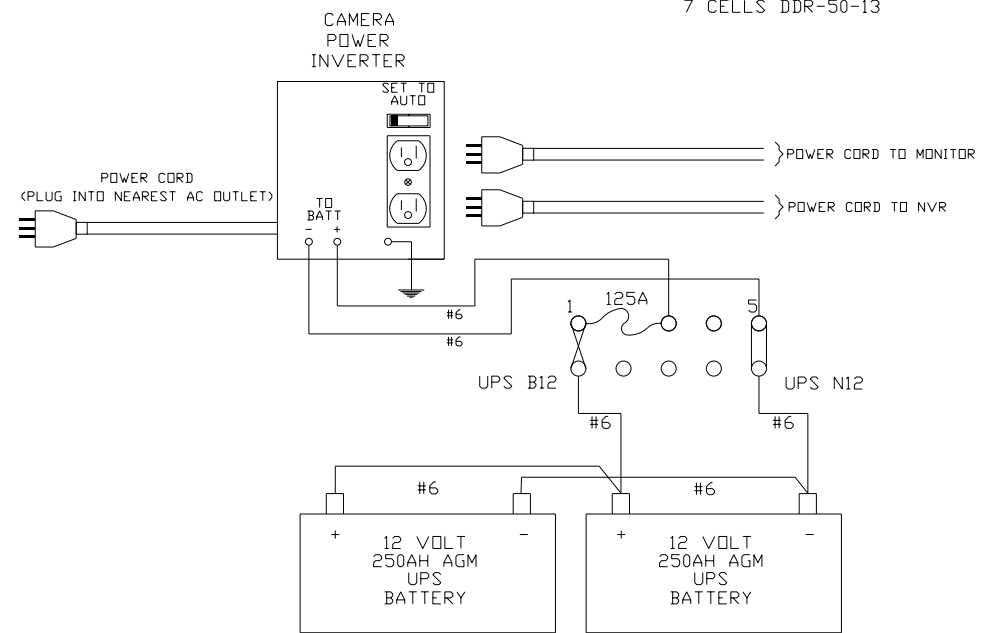
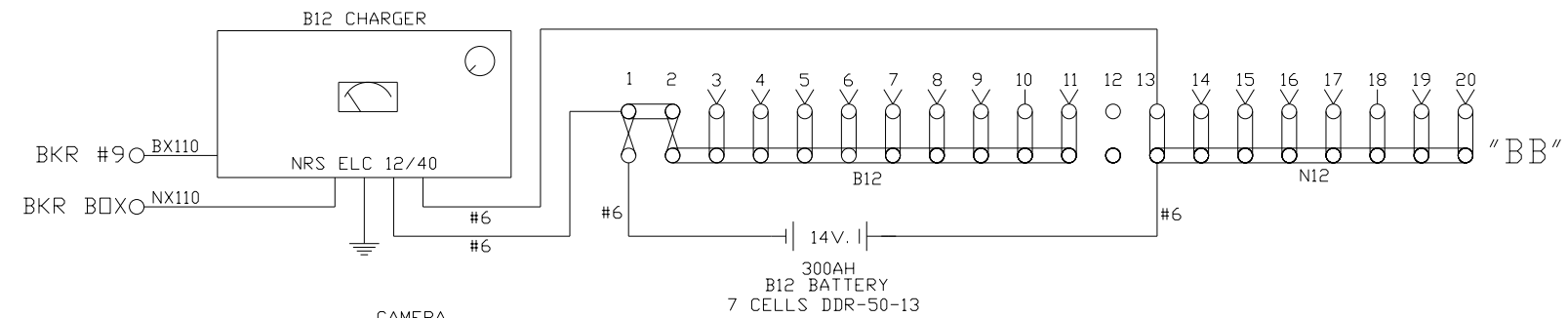
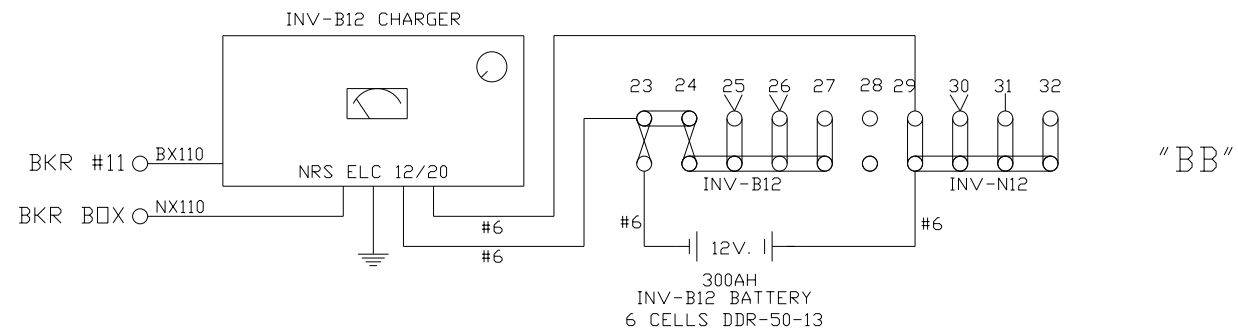
* - TEMPORARY "GATE READY" JUMPER AS WIRED XX/XX/XXXX AS INSTALLED XX/XX/XXXX

NOTE: ALL WIRE ON THIS SHEET IS #10 AWG UNLESS OTHERWISE NOTED.

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

NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES

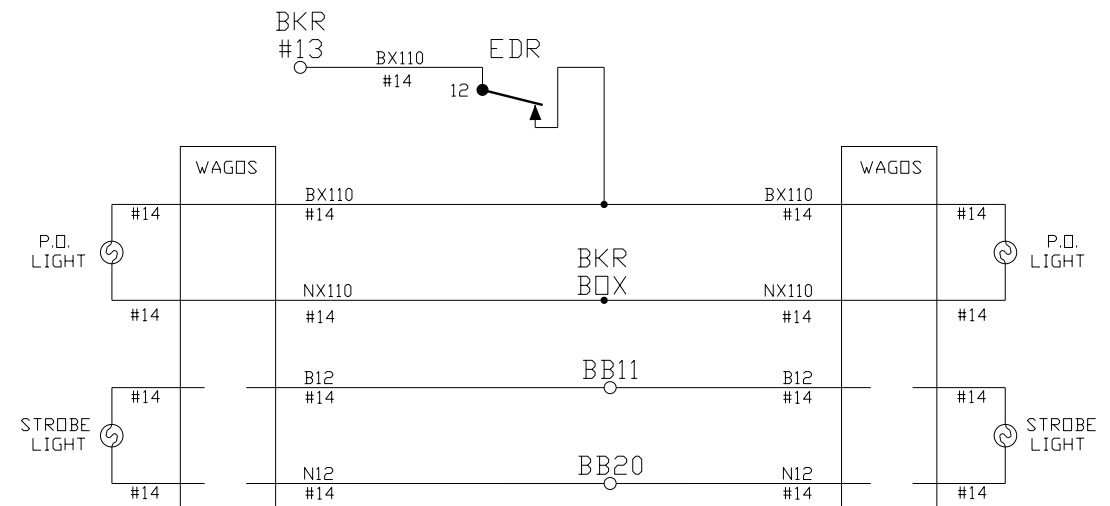
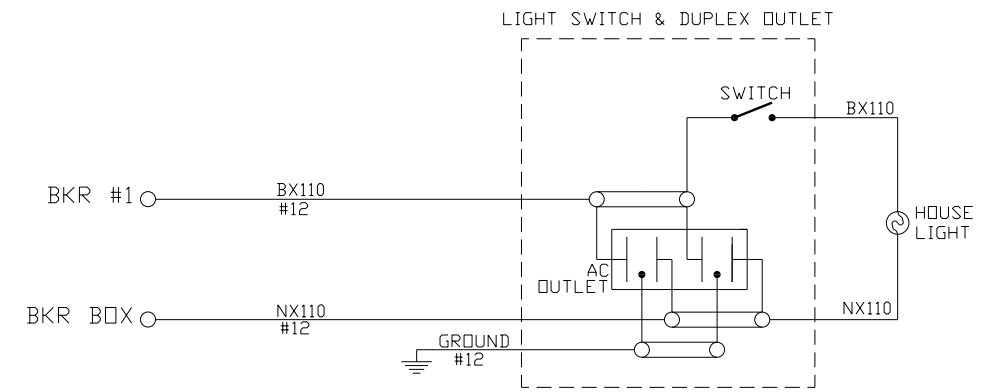
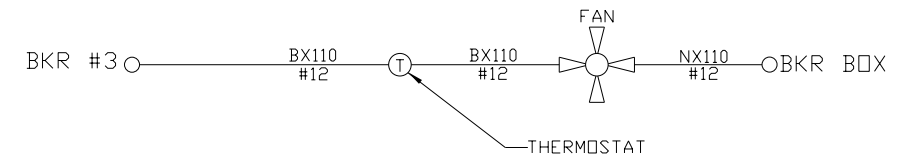
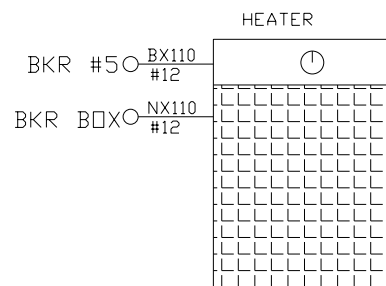
SCALE: NONE	APPROVED BY:	DRAWN BY: NST
DATE: 01/18/24		REVISED:
CLIFFORD ROAD - DOT # 517 523L MP. 03.83 SELINGROVE, SNYDER COUNTY, PA		
CIRCUIT PLAN "D"		DRAWING NUMBER



ERICO EPD 120/240 VENT FAN THERMOSTAT

BREAKER BOX

LIGHTS & OUTLET	1	2	MAIN
FAN	3	4	
HOUSE HEATER	5	6	GEN
LG. TRANS.	7	8	
B12 CHARGER	9	10	GATE HEATERS
INV-B12 CHARGER	11	12	
PO LIGHTS	13	14	NOT USED
NOT USED	15	16	



NOTE:
ALL WIRE THIS SHEET IS #10 AWG FLEX
UNLESS OTHERWISE NOTED.

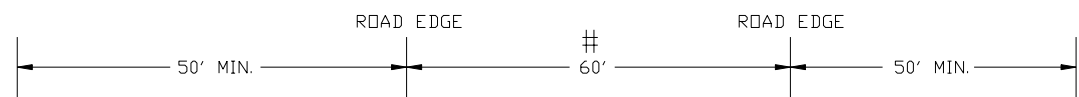
AS WIRED XX/XX/XXXX AS INSTALLED XX/XX/XXXX

DIAMONDBACK SIGNAL

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

**NORTH SHORE RAILROAD
RAILROAD CROSSING WARNING DEVICES**

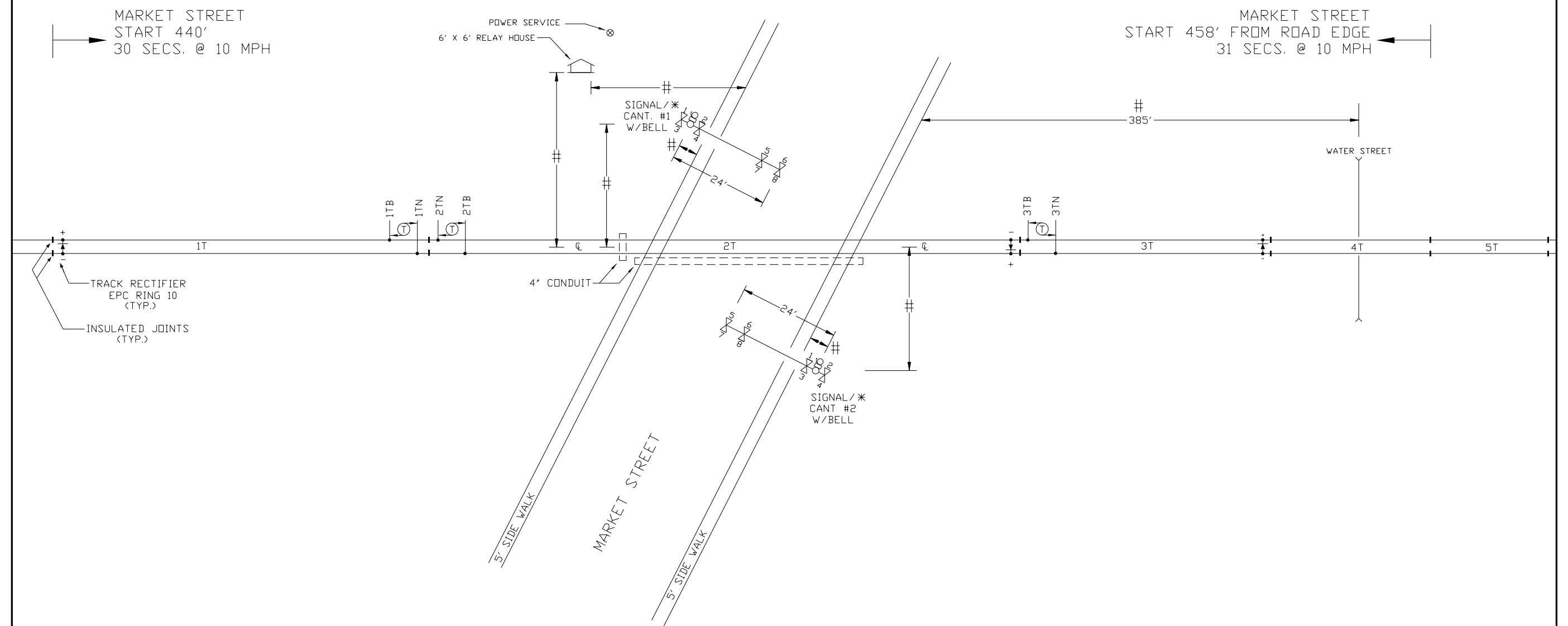
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DATE: 01/18/24		REVISED:
CLIFFORD ROAD - DOT # 517 523L MP. 03.83 SELINGROVE, SNYDER COUNTY, PA		
CIRCUIT PLAN "E"		DRAWING NUMBER



WATER STREET
START

MARKET STREET
START 440'
30 SECS. @ 10 MPH

MARKET STREET
START 458' FROM ROAD EDGE
31 SECS. @ 10 MPH



- FIELD TO VERIFY ALL MEASUREMENTS
* - GATE READY

NOTES:

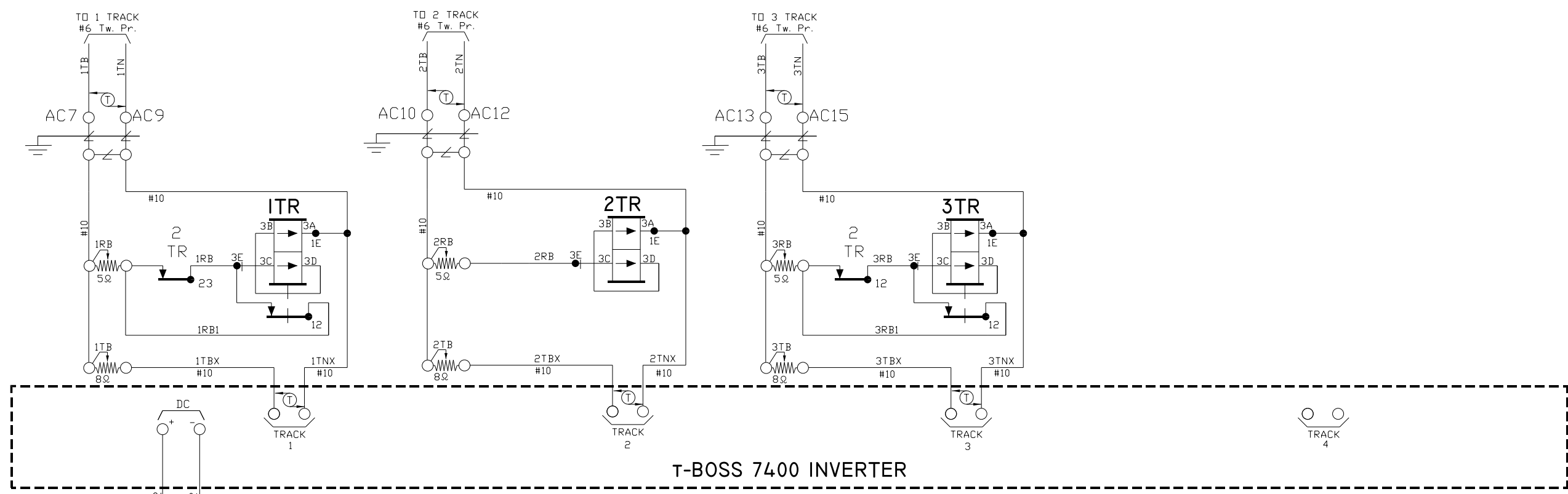
1. MATERIAL & INSTALLATION TO BE IN ACCORDANCE WITH MUTCD, STATE AND RAILROAD STANDARDS.
2. ALL DIMENSIONS ARE APPROXIMATE AND MAY VARY DUE TO ACTUAL FIELD CONDITIONS.
3. ALL FLASHING LIGHT SIGNALS TO BE LIGHT EMITTING DIODE (LED)
4. (T) DENOTES TWIST PAIR.
5. ISLAND CIRCUIT MUST BE A MINIMUM OF 120' IN LENGTH

CABLE RUN TABULATION

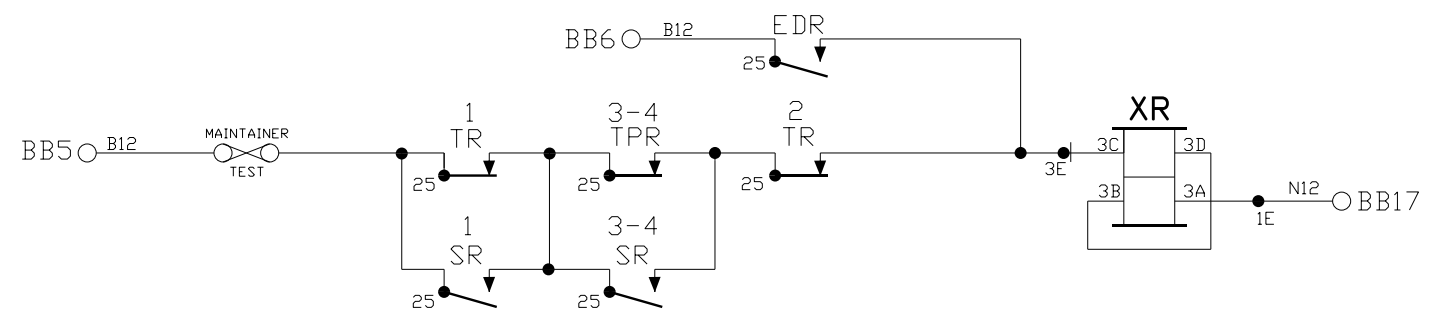
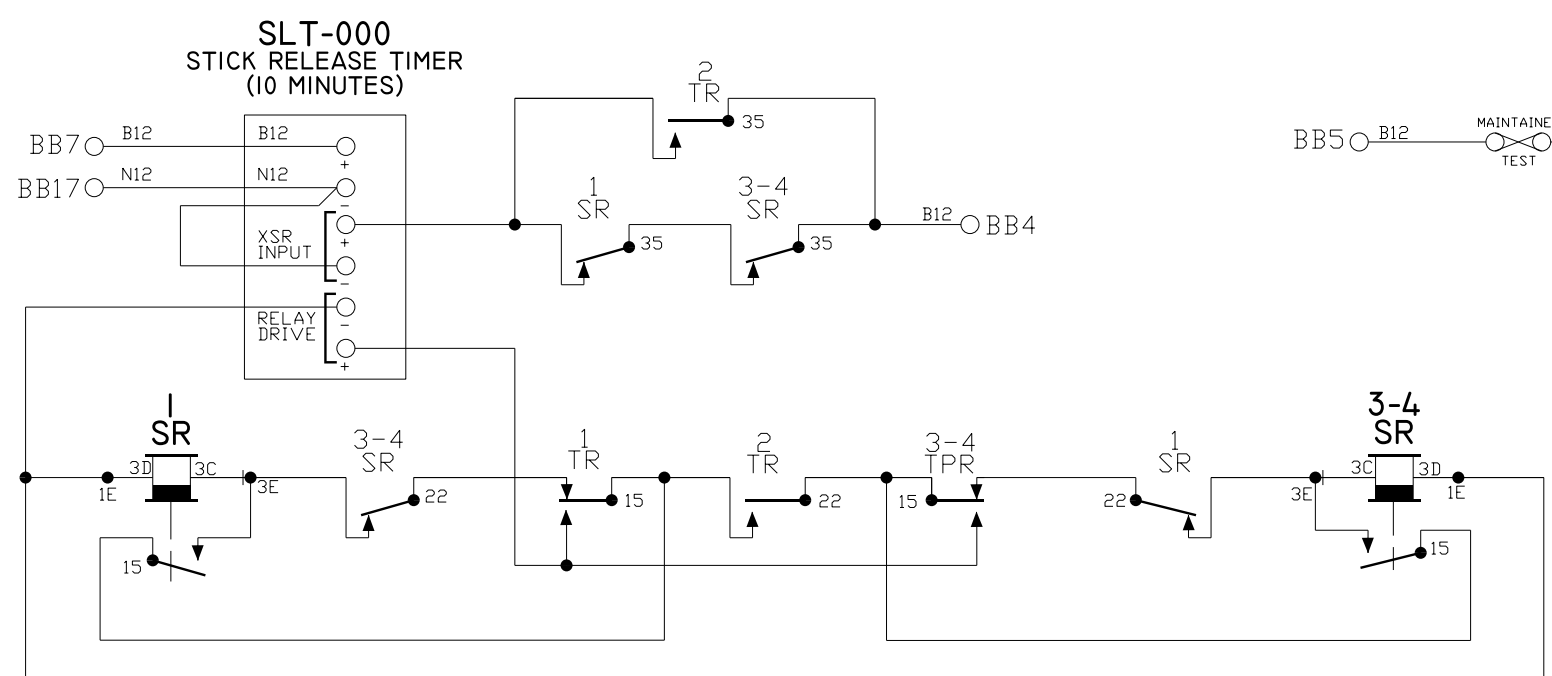
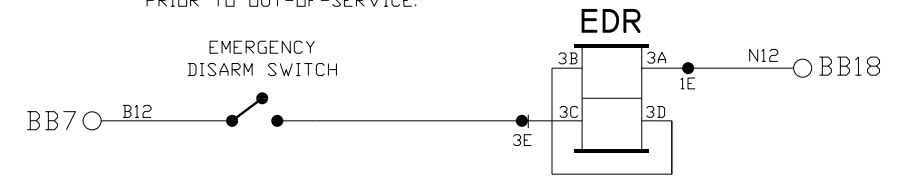
HOUSE TO SIGNAL #1 (GATE READY)	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO SIGNAL #2 (GATE READY)	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO AC SERVICE	- 3/C #9 UG CABLE
HOUSE TO 1TN & 1TB	- 2/C #6 TW. PAIR UG CABLE
HOUSE TO 2TN & 2TB	- 2/C #6 TW. PAIR UG CABLE
HOUSE TO 3TN & 3TB	- 2/C #6 TW. PAIR UG CABLE
HOUSE TO WATER STREET	- 7/C #14 UG CABLE

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

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES	
	SCALE: NONE	APPROVED BY:
	DATE: 01/18/24	DRAWN BY: NST
	MARKET STREET DOT # 517 520R MP. 01.09 SELINGROVE, SNYDER COUNTY, PA	
TRACK & CABLE PLAN		DRAWING NUMBER

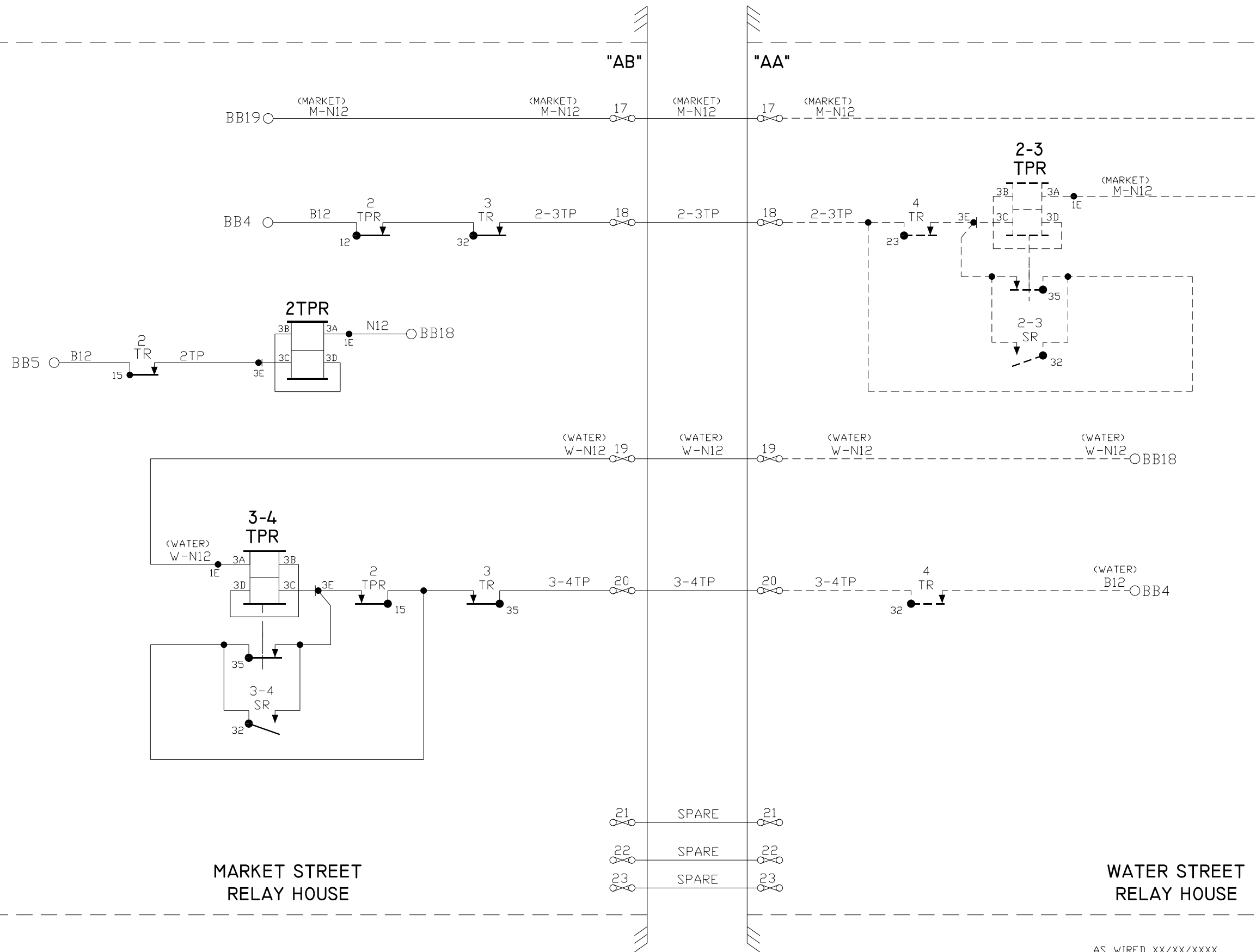


WARNING
 PLACING SWITCH TO THE
 OUT-OF-SERVICE POSITION
 COMPLETELY DISABLES THIS HIGHWAY
 CROSSING WARNING SYSTEM. PROPER
 AUTHORITIES MUST BE NOTIFIED
 PRIOR TO OUT-OF-SERVICE.



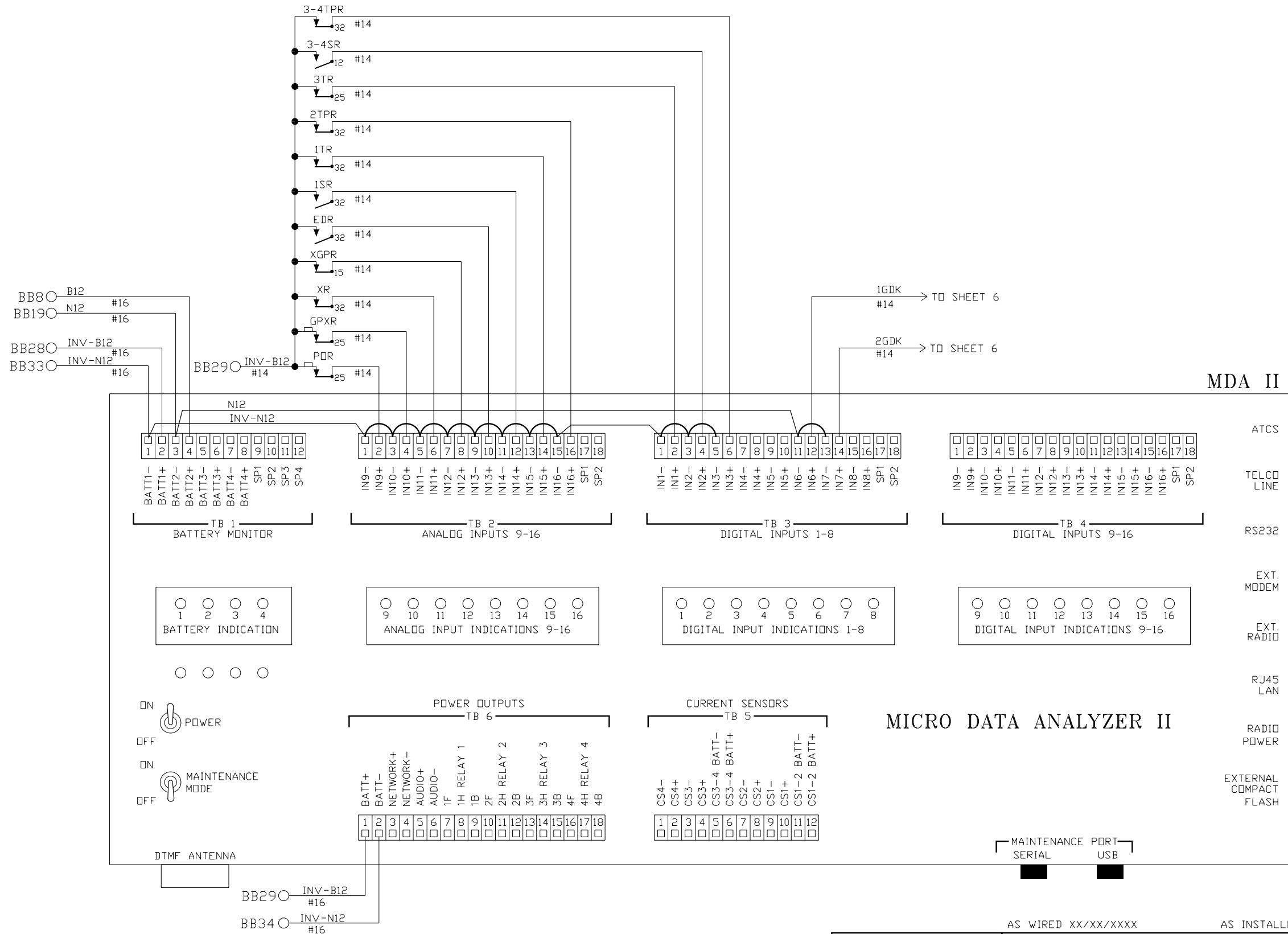
- NOTES:
1. ALL WIRE THIS SHEET IS #14 AWG FLEX UNLESS OTHERWISE NOTED.
 2. (T) DENOTES TWISTED PAIR.

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED XX/XX/XXXX		AS INSTALLED XX/XX/XXXX	
	NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:	DRAWN BY: NST	
	DATE: 01/18/24		REVISED:	
MARKET STREET DOT # 517 520R MP. 01.09 SELINGROVE, SNYDER COUNTY, PA			DRAWING NUMBER	
CIRCUIT PLAN "A"				



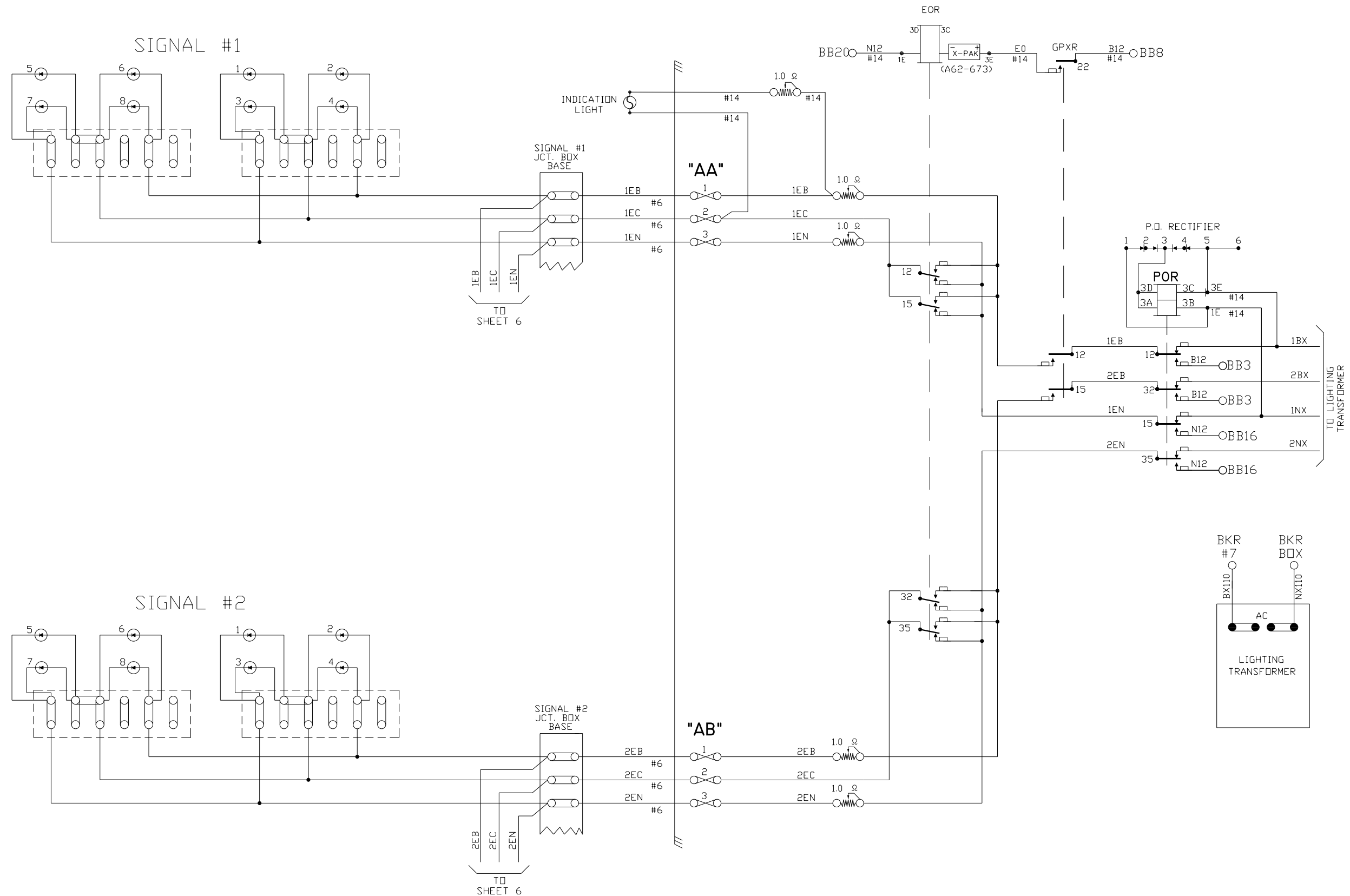
- NOTES:
1. ALL WIRE THIS SHEET IS #14 AWG FLEX UNLESS OTHERWISE NOTED.
 2. DENOTES TWISTED PAIR.

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED XX/XX/XXXX		AS INSTALLED XX/XX/XXXX	
	NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:		DRAWN BY: NST
	DATE: 01/18/24	REVISI		REVISED:
MARKET STREET DOT # 517 520R MP. 01.09 SELINGROVE, SNYDER COUNTY, PA			DRAWING NUMBER	
CIRCUIT PLAN "B"				



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

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED XX/XX/XXXX		AS INSTALLED XX/XX/XXXX	
	NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:	DRAWN BY: NST	
	DATE: 01/18/24		REVISED:	
MARKET STREET DOT # 517 520R MP. 01.09 SELINGROVE, SNYDER COUNTY, PA				
CIRCUIT PLAN "C"			DRAWING NUMBER	



- NOTES:
1. ALL WIRE THIS SHEET IS #10 AWG. FLEX UNLESS OTHERWISE NOTED.
 2. FLASHER RELAY W/X-PAK (A62-673)

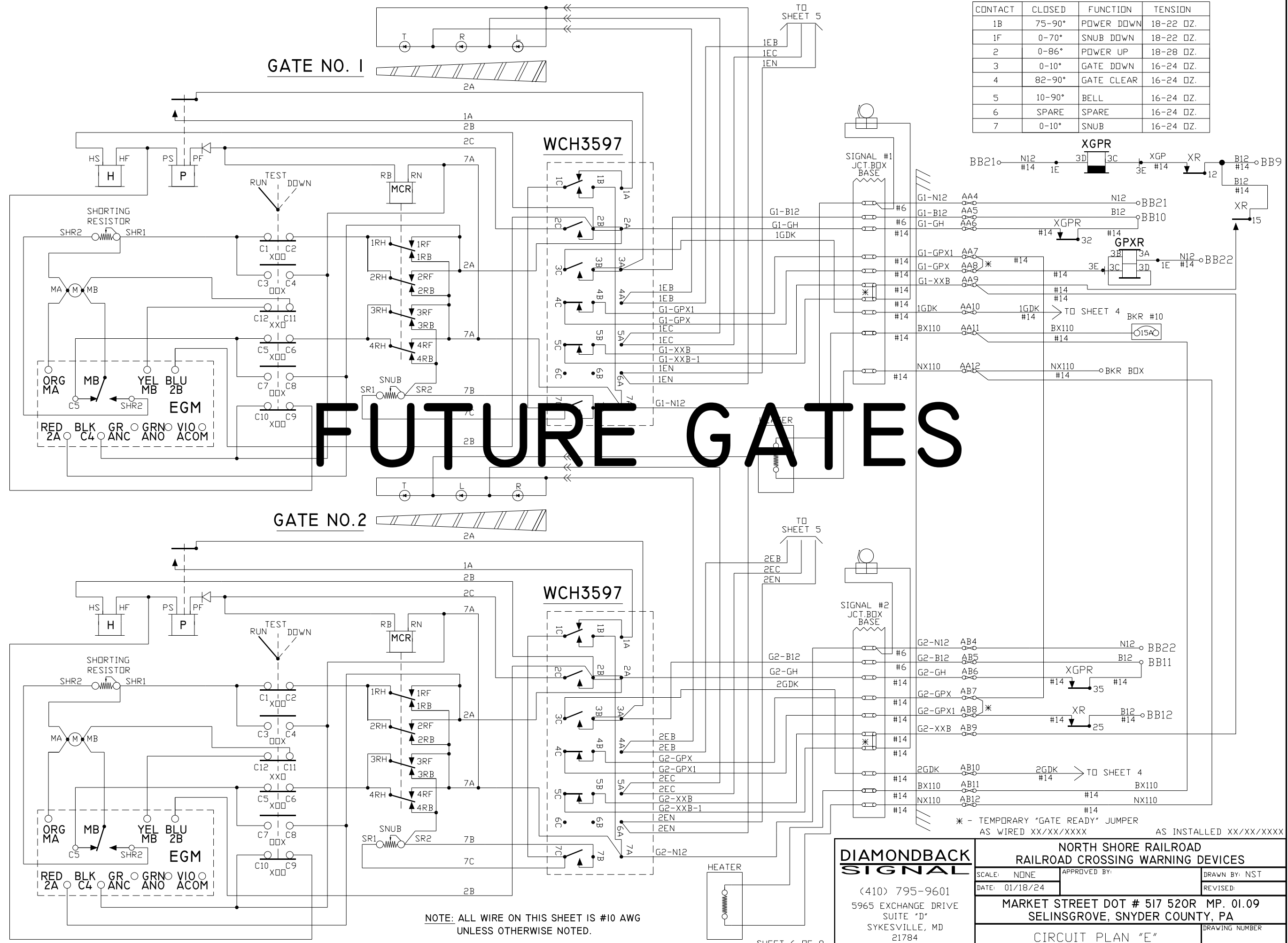
DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED XX/XX/XXXX		AS INSTALLED XX/XX/XXXX	
	NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:		DRAWN BY: NST
	DATE: 01/18/24	REVISI:		REVISI:
MARKET STREET DOT # 517 520R MP. 01.09 SELINGROVE, SNYDER COUNTY, PA				DRAWING NUMBER
CIRCUIT PLAN "D"				

GATE NO. 1

GATE NO. 2

CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.

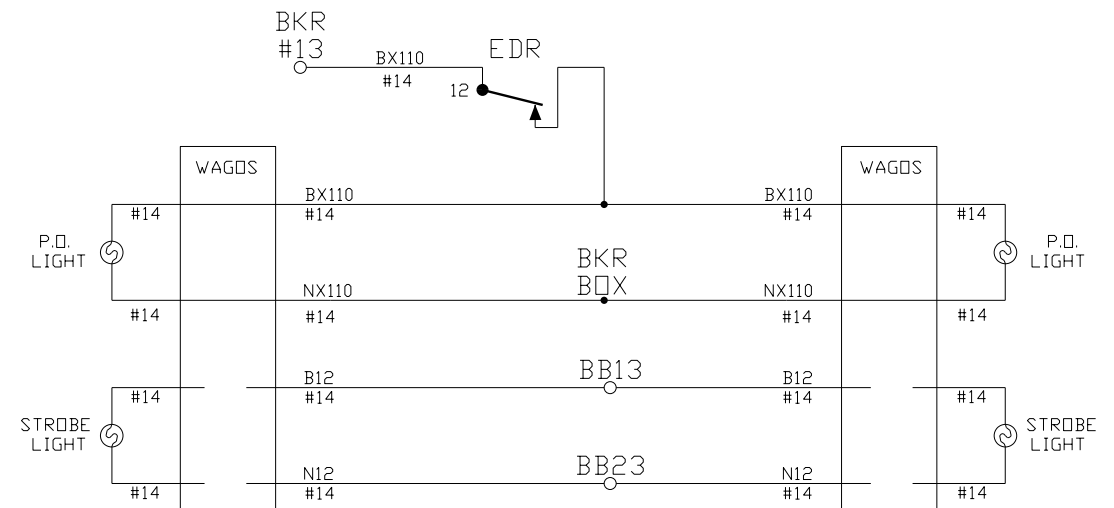
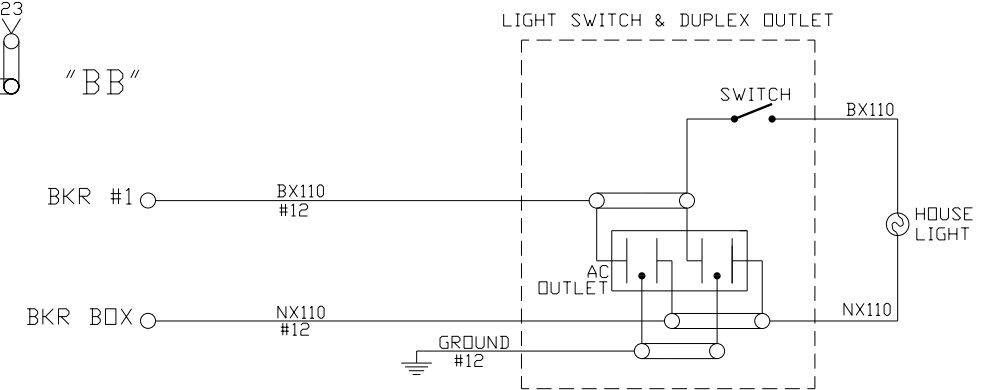
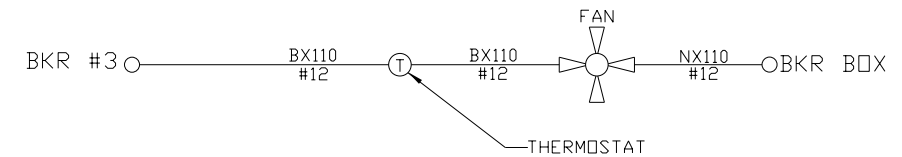
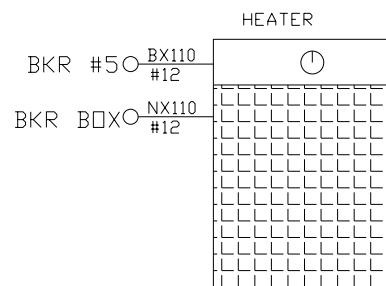
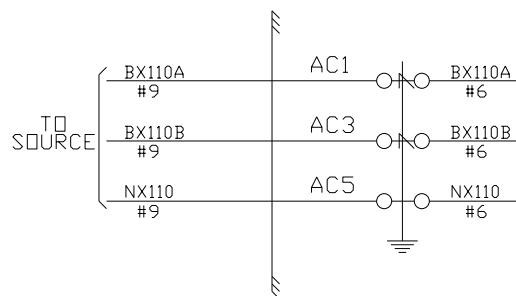
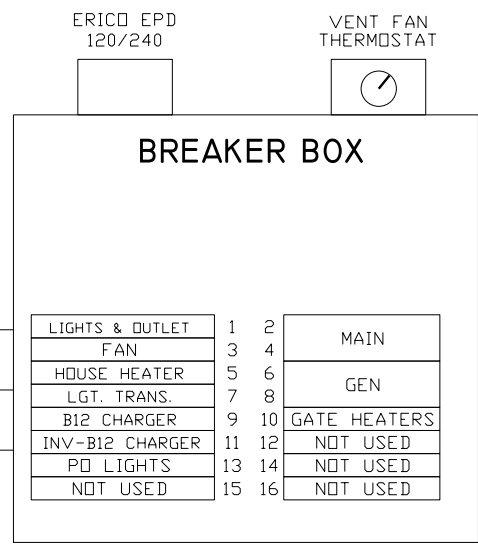
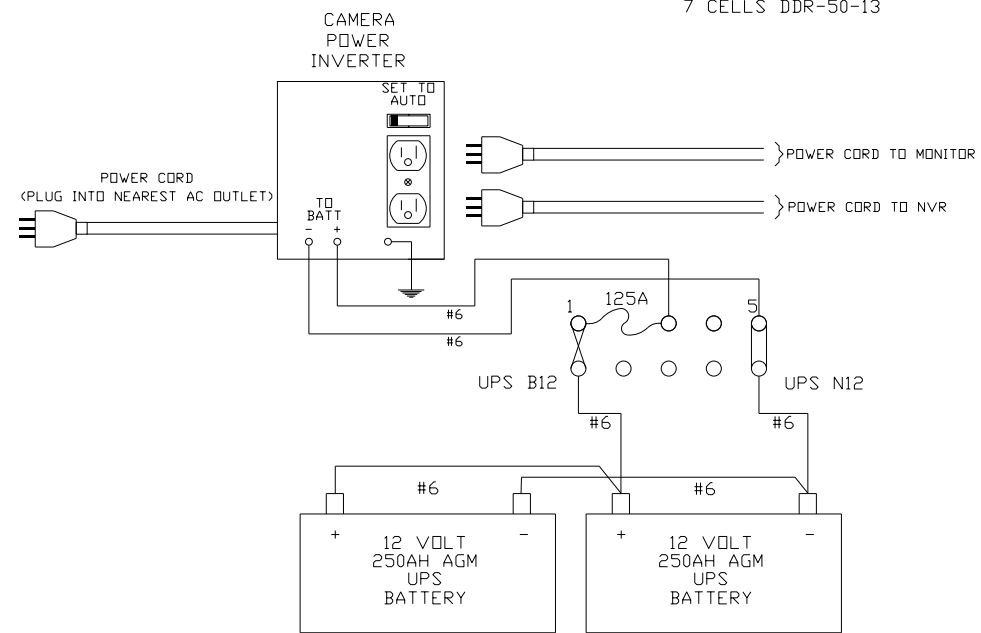
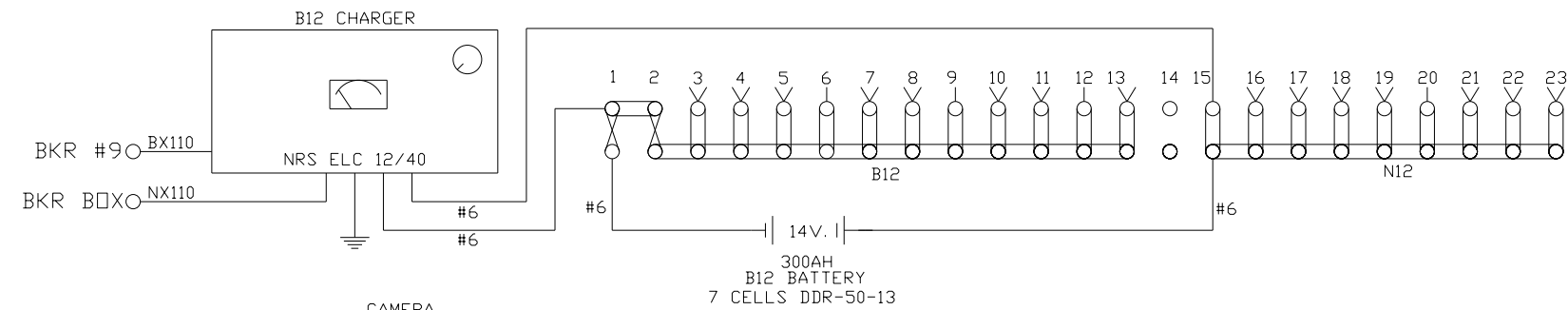
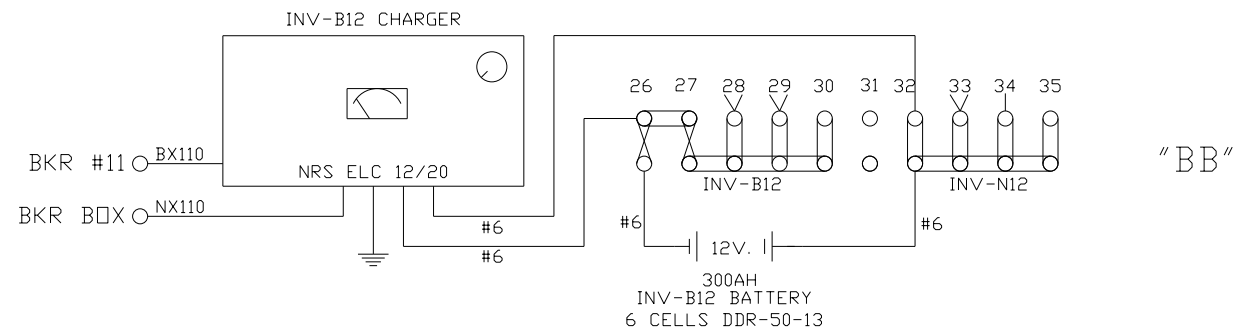
FUTURE GATES



NOTE: ALL WIRE ON THIS SHEET IS #10 AWG UNLESS OTHERWISE NOTED.

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

NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES		
SCALE: NONE	APPROVED BY:	DRAWN BY: NST
DATE: 01/18/24		REVISED:
MARKET STREET DOT # 517 520R MP. 01.09 SELINGROVE, SNYDER COUNTY, PA		
CIRCUIT PLAN "E"		DRAWING NUMBER

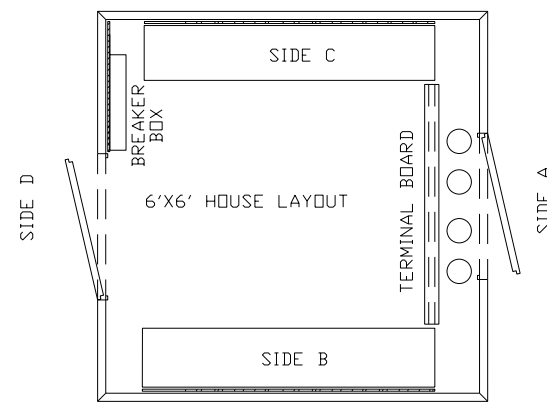
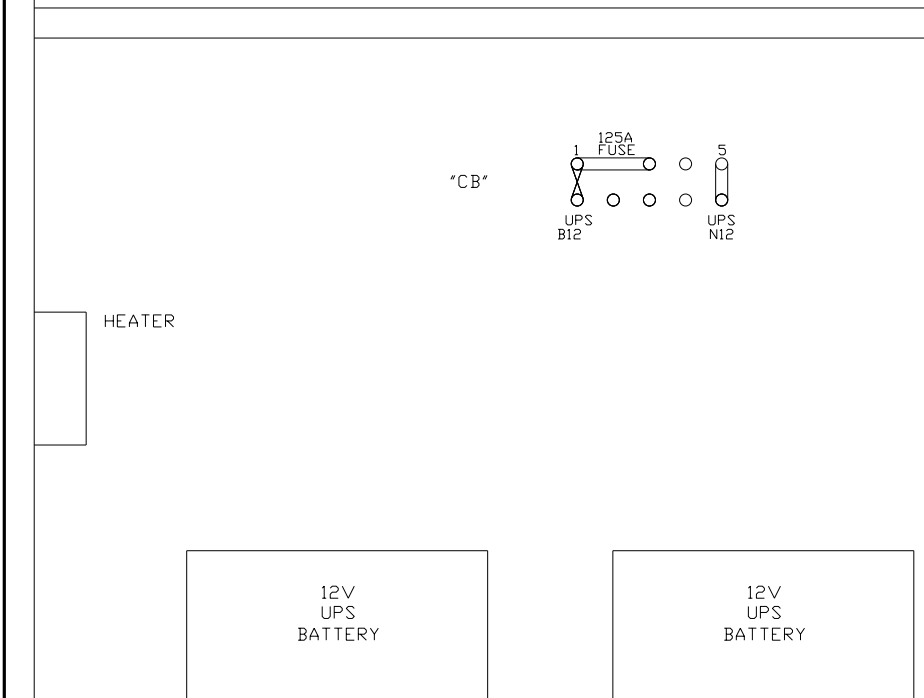
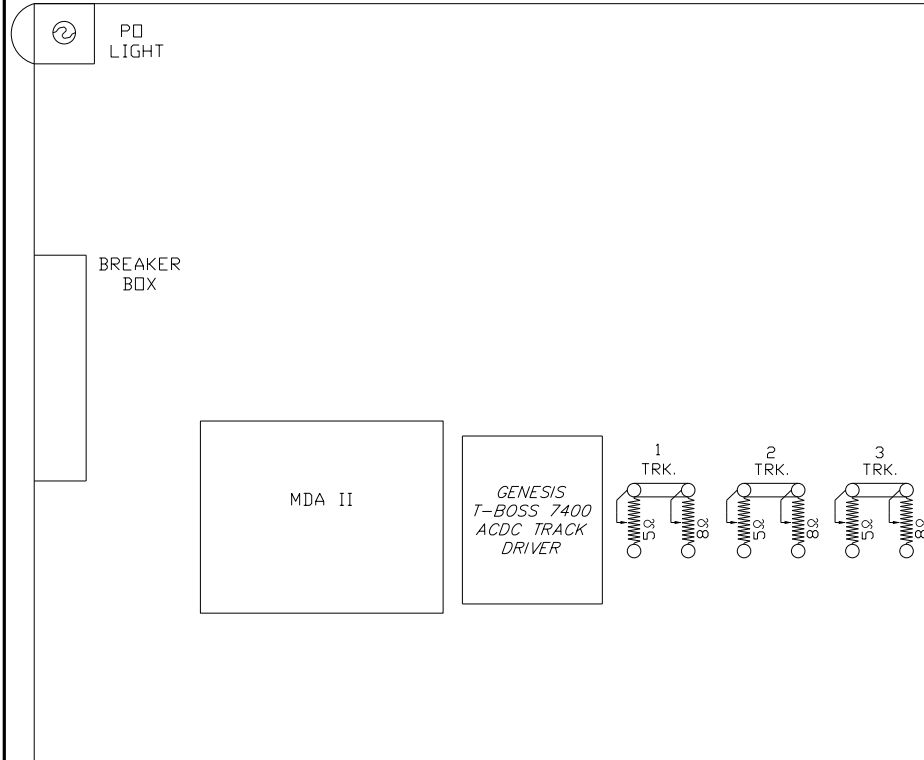


NOTE:
ALL WIRE THIS SHEET IS #10 AWG FLEX
UNLESS OTHERWISE NOTED.

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

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES	
	SCALE: NONE DATE: 01/18/24	APPROVED BY:
MARKET STREET DOT # 517 520R MP. 01.09 SELINGROVE, SNYDER COUNTY, PA		
CIRCUIT PLAN "F"		DRAWING NUMBER

SIDE "C"

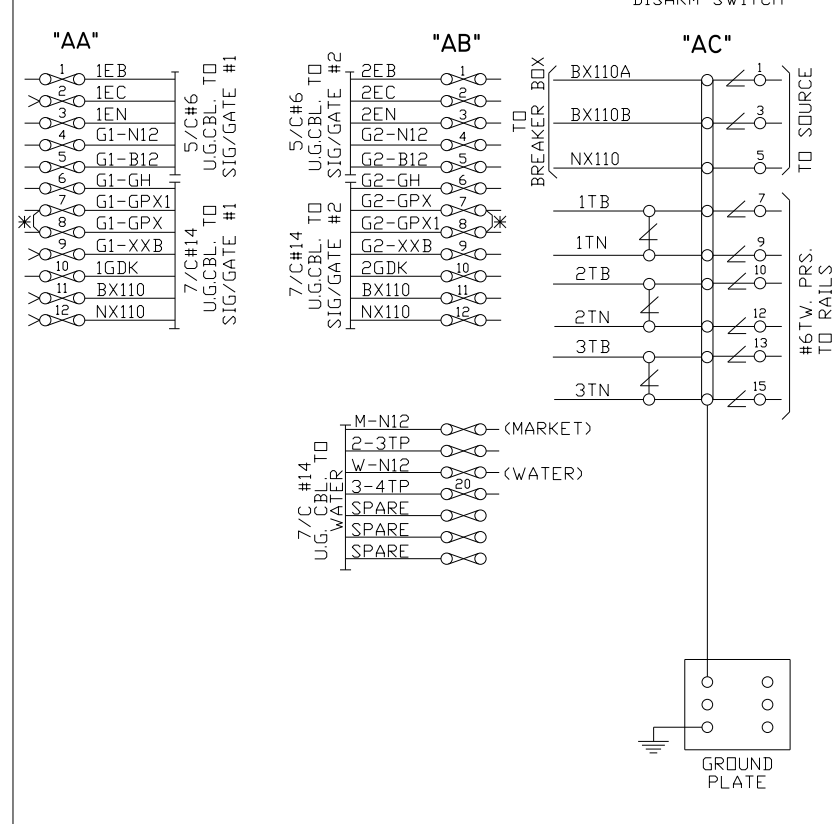
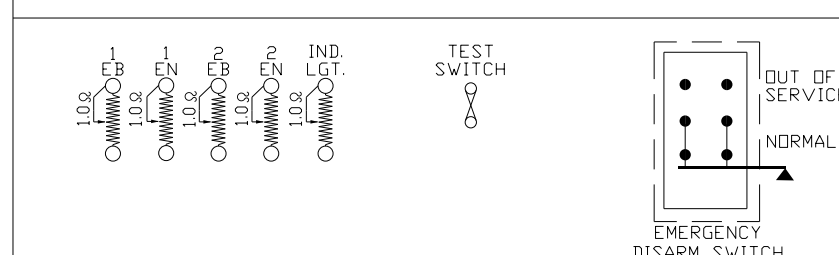


SIDE "A"

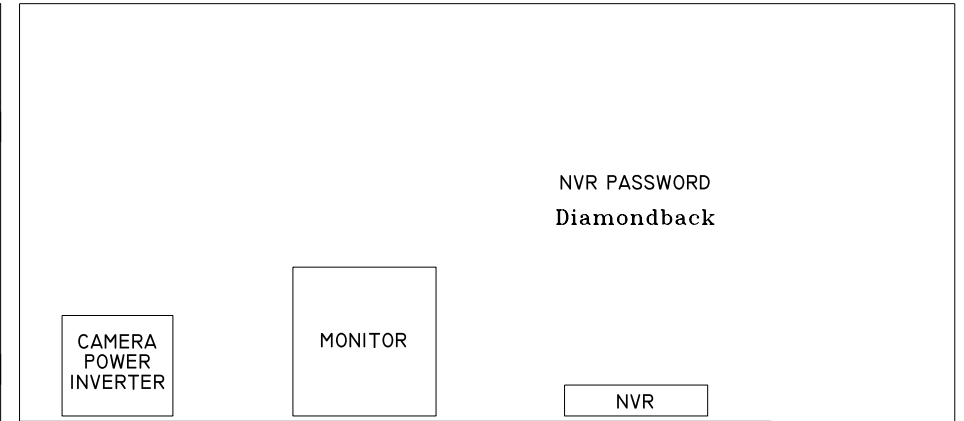
PD LIGHT

LIGHT TRANS.		POR	EOR	GPXR	XR	XGPR	EDR
12	FB	12	FB	12	B	12	B
15	FB	15	FB	15	B	15	F
22	F	32	FB	22	B	22	F
25	F	35	FB	23	F	25	F
32	FB			25	F	32	F
35	FB			32	F	35	F
		A62-406	A62-673	A62-310	A62-262	A62-360	A62-262

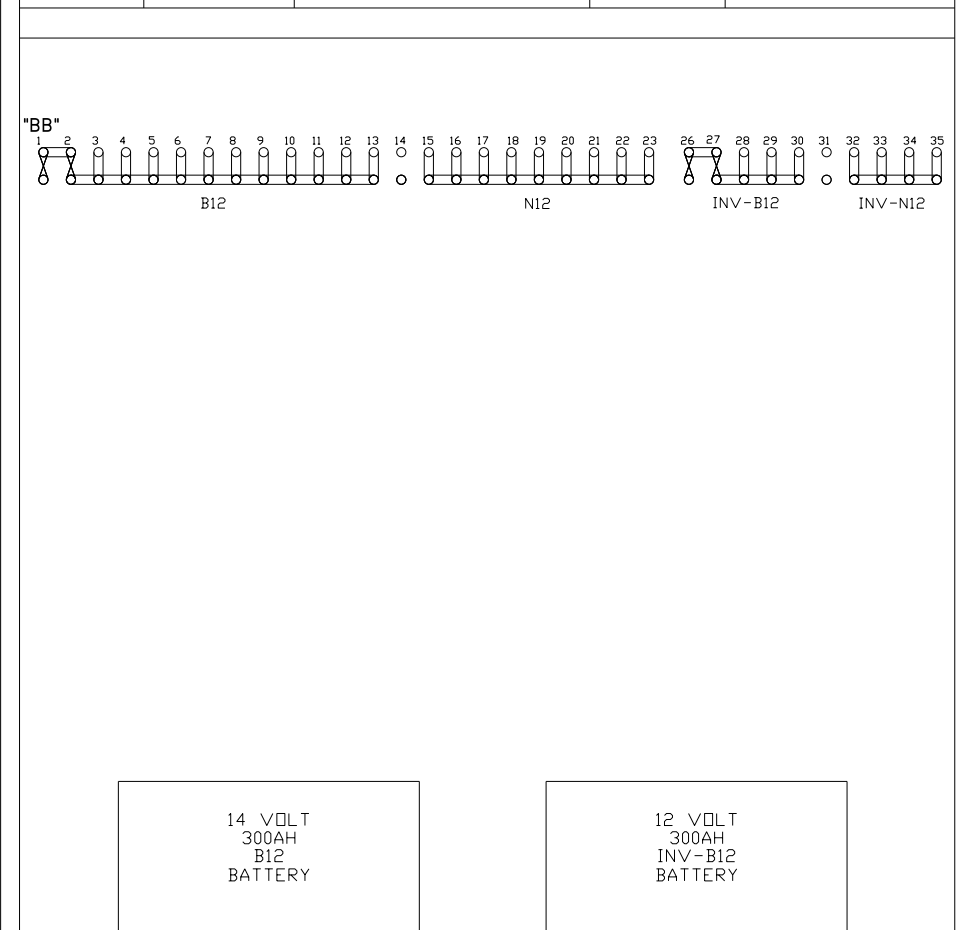
1 SR	1 TR	2 TR	2 TPR	3 TR	3-4 TPR	3-4 SR	SLT-000 STICK RELEASE TIMER (10 MIN)
12 F	12 F	12 F	12 F	12 F	12 F	12 F	
15 F	15 FB	15 F	15 F	15 F	15 FB	15 F	
22 B	22 B	22 B	22 B	22 B	22 B	22 B	
23 B	23 F	23 F	23 F	23 B	23 F	23 B	
25 F	25 F	25 F	25 F	25 F	25 F	25 F	
32 F	32 F	32 F	32 F	32 F	32 F	32 F	
35 B	35 F	35 B	35 F	35 F	35 F	35 B	
A62-357	A62-120	A62-120	A62-262	A62-120	A62-262	A62-357	



SIDE "B"



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



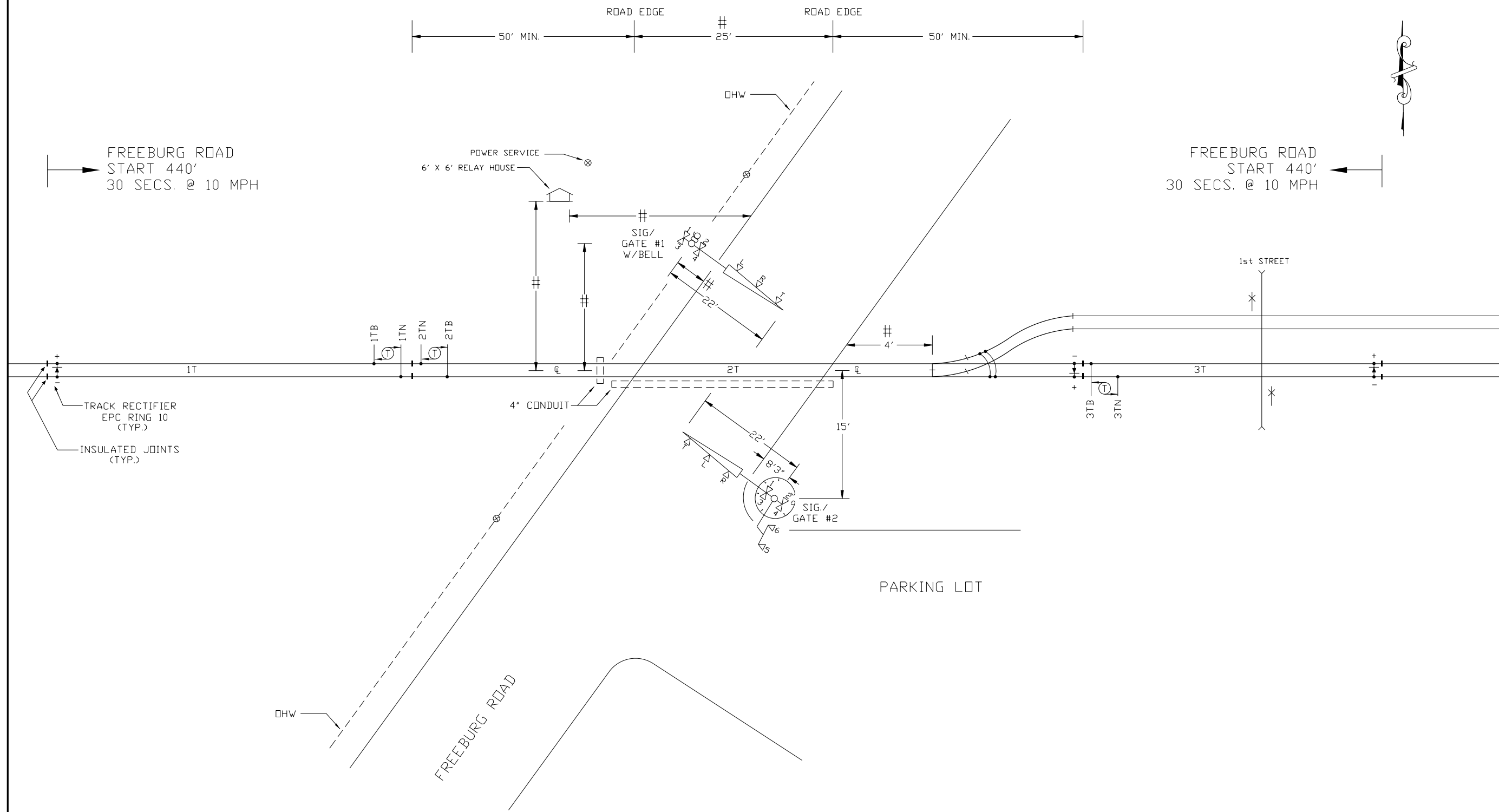
AS WIRED XX/XX/XXXX AS INSTALLED XX/XX/XXXX

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES	
	SCALE: NONE DATE: 01/18/24	APPROVED BY: _____
MARKET STREET DOT # 517 520R MP. 01.09 SELINGROVE, SNYDER COUNTY, PA		DRAWN BY: NST REVISED:
RELAY HOUSE LAYOUT		DRAWING NUMBER

* - TEMPORARY "GATE READY" JUMPER

WEST ←

→ EAST



- FIELD TO VERIFY ALL MEASUREMENTS

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. ALL FLASHING LIGHT SIGNALS TO BE LIGHT EMITTING DIODE (LED)
4. (T) DENOTES TWIST PAIR.
5. ISLAND CIRCUIT MUST BE A MINIMUM OF 120' IN LENGTH
6. (C) = TRAFFIC SIGNAL BARRIER RING
7. * - CROSSBUCKS

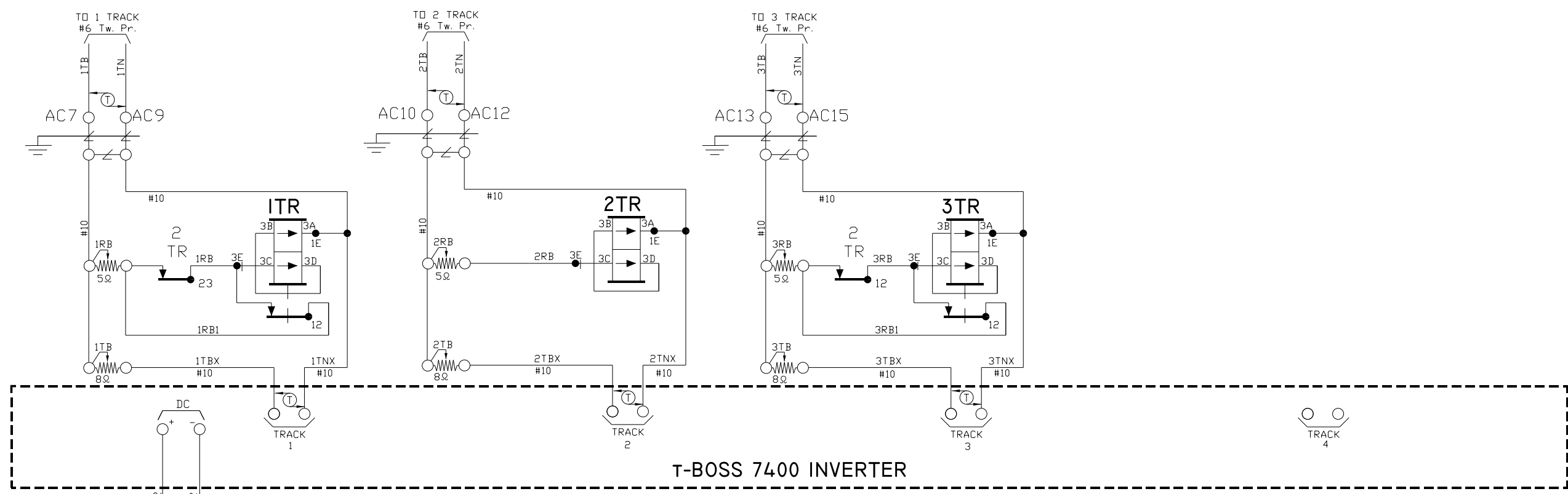
CABLE RUN TABULATION

- HOUSE TO SIGNAL #1 - 5/C #6 UG CABLE
- HOUSE TO SIGNAL #1 - 7/C #14 UG CABLE
- HOUSE TO SIGNAL #2 - 5/C #6 UG CABLE
- HOUSE TO SIGNAL #2 - 7/C #14 UG CABLE
- HOUSE TO AC SERVICE - 3/C #9 UG CABLE
- HOUSE TO 1TN & 1TB - 2/C #6 TW. PAIR UG CABLE
- HOUSE TO 2TN & 2TB - 2/C #6 TW. PAIR UG CABLE
- HOUSE TO 3TN & 3TB - 2/C #6 TW. PAIR UG CABLE

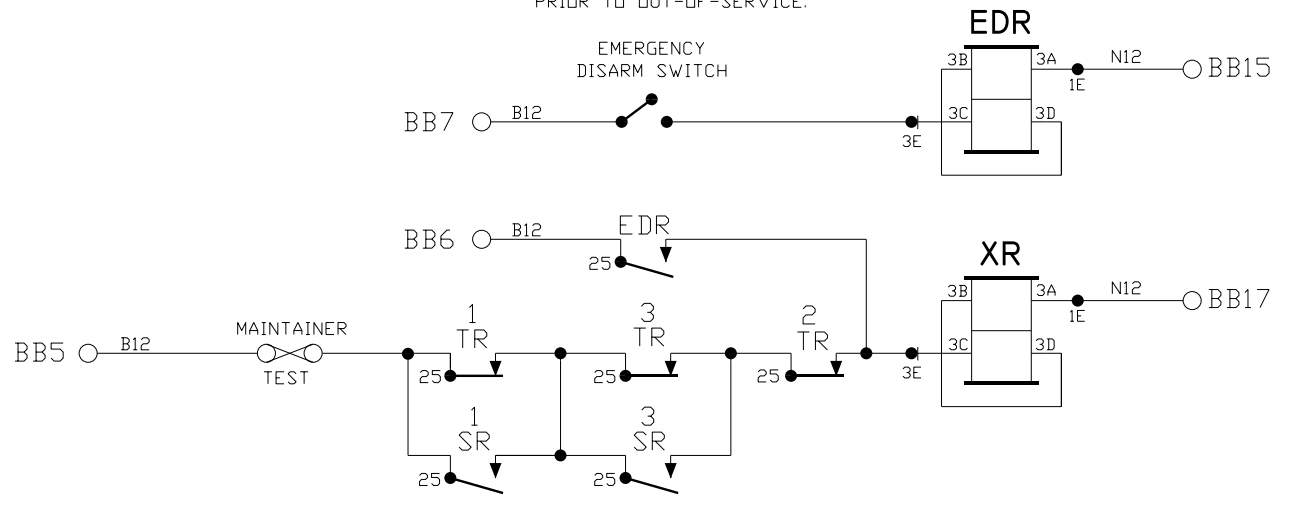
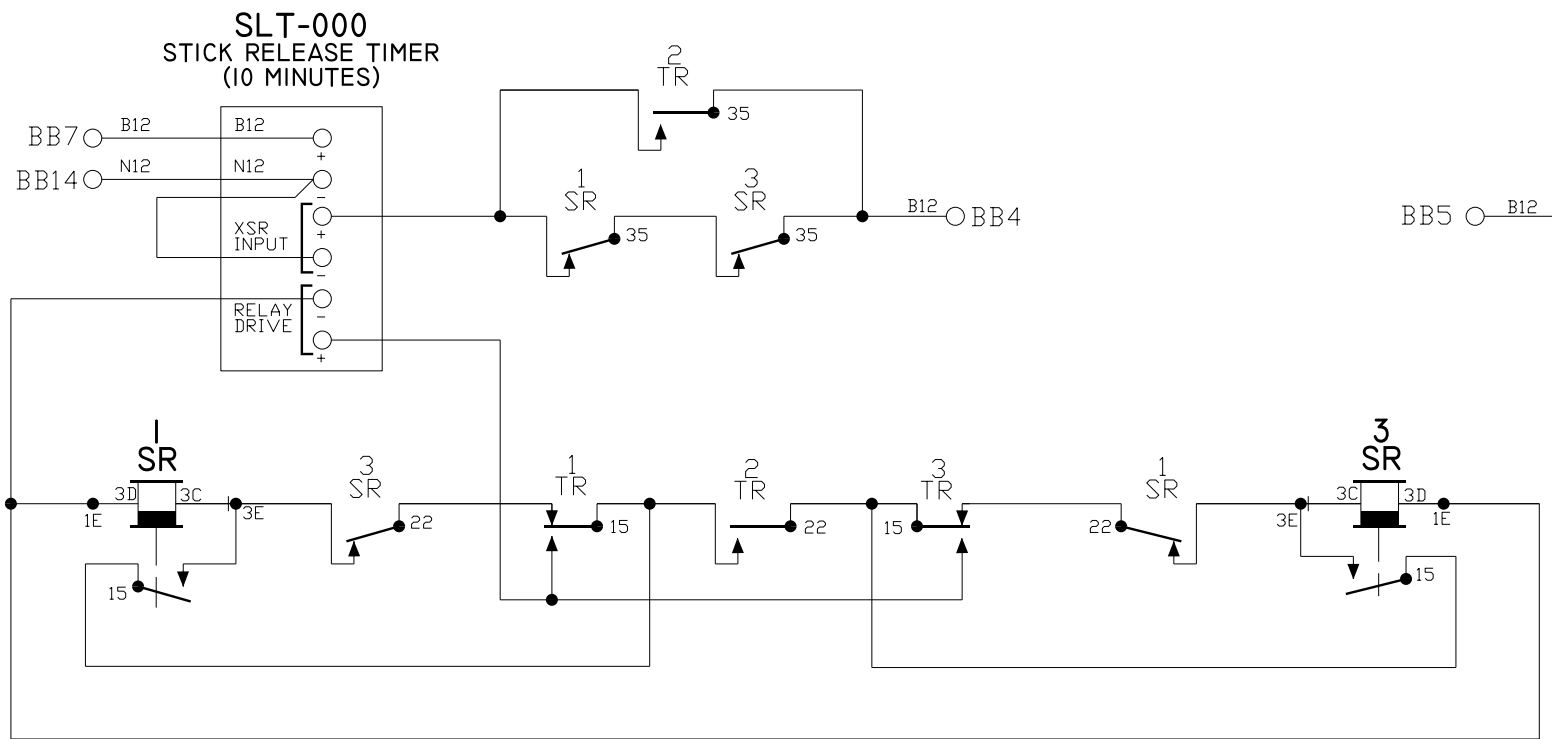
AS WIRED XX/XX/XXXX AS INSTALLED XX/XX/XXXX

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

NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES	
SCALE: NONE	APPROVED BY:
DATE: 06/19/24	DRAWN BY: NST
FREEBURG ROAD - DOT # 517 535F MP. 07.18 SELINGROVE, SNYDER COUNTY, PA	
TRACK & CABLE PLAN	
DRAWING NUMBER	



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

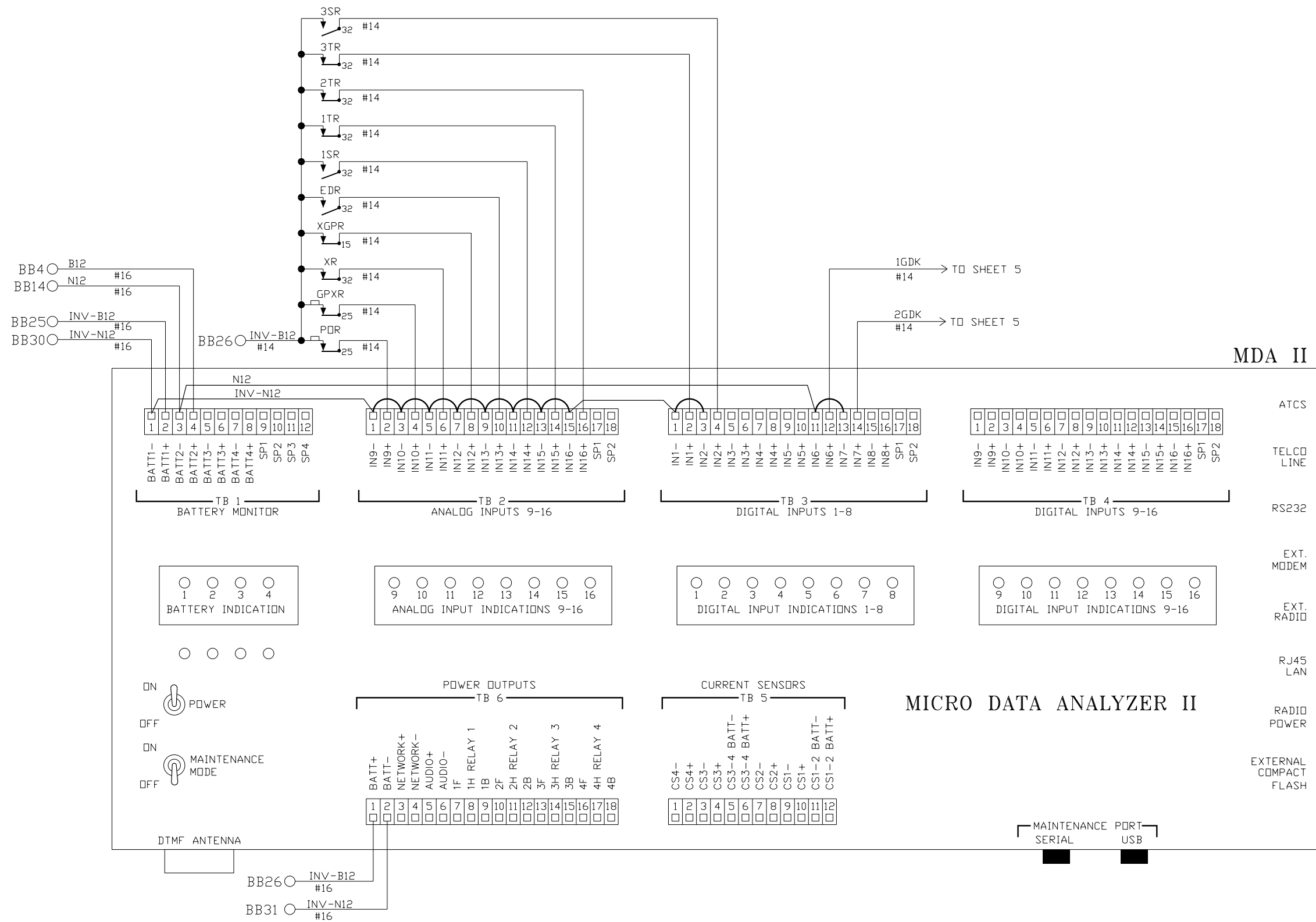


- NOTES:
1. ALL WIRE THIS SHEET IS #14 AWG FLEX UNLESS OTHERWISE NOTED.
 2. $\text{\textcircled{T}}$ DENOTES TWISTED PAIR.

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

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

NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES		
SCALE: NONE	APPROVED BY:	DRAWN BY: NST
DATE: 06/19/24		REVISED:
FREEBURG ROAD - DOT # 517 535F MP. 07.18 SELINGROVE, SNYDER COUNTY, PA		
CIRCUIT PLAN "A"		DRAWING NUMBER

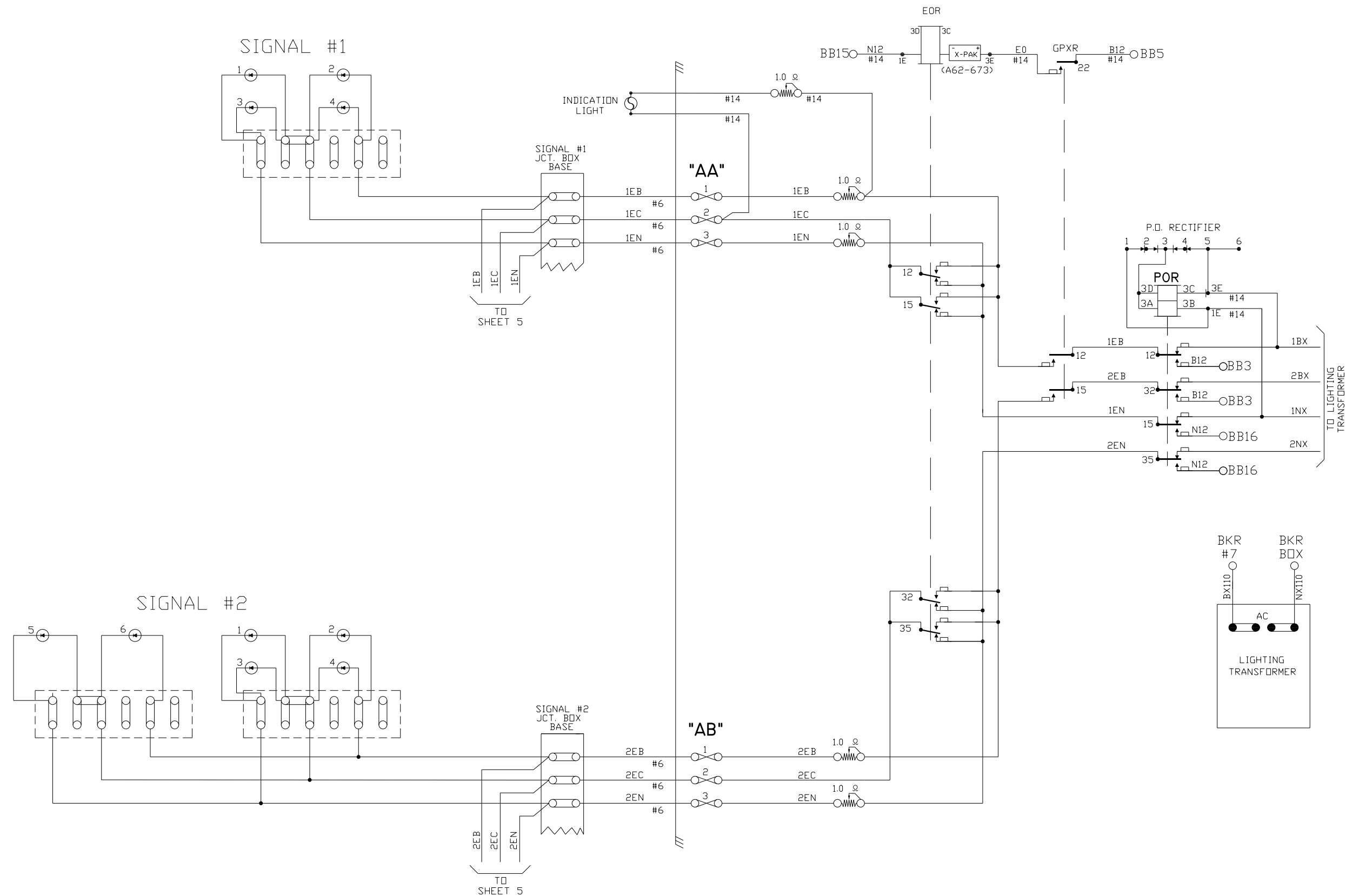


NOTES:
 1. ALL WIRE THIS SHEET #10 UNLESS OTHERWISE NOTED.
 2. DENOTES TWISTED PAIR.

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

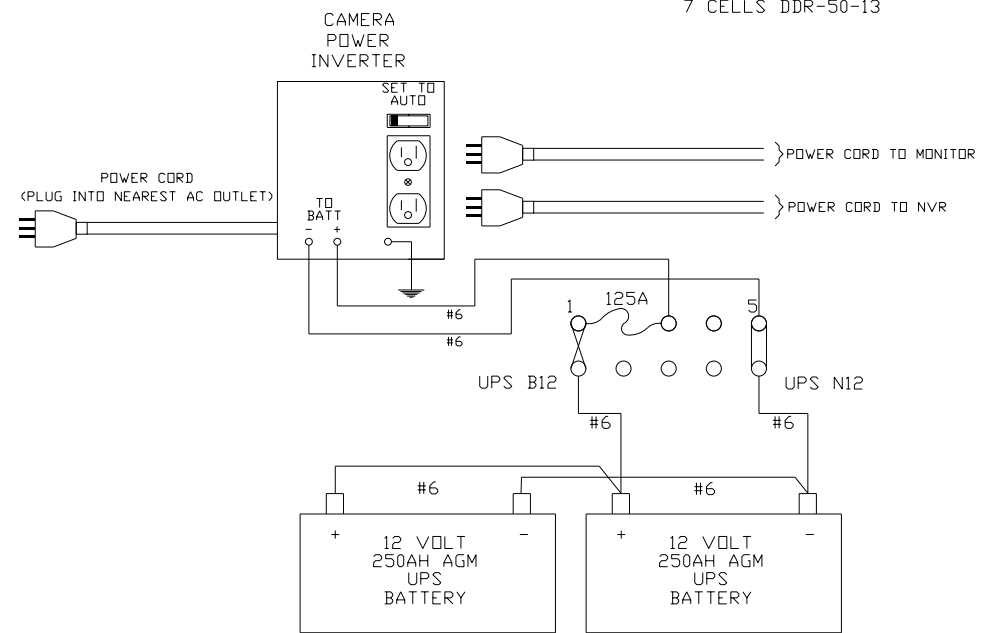
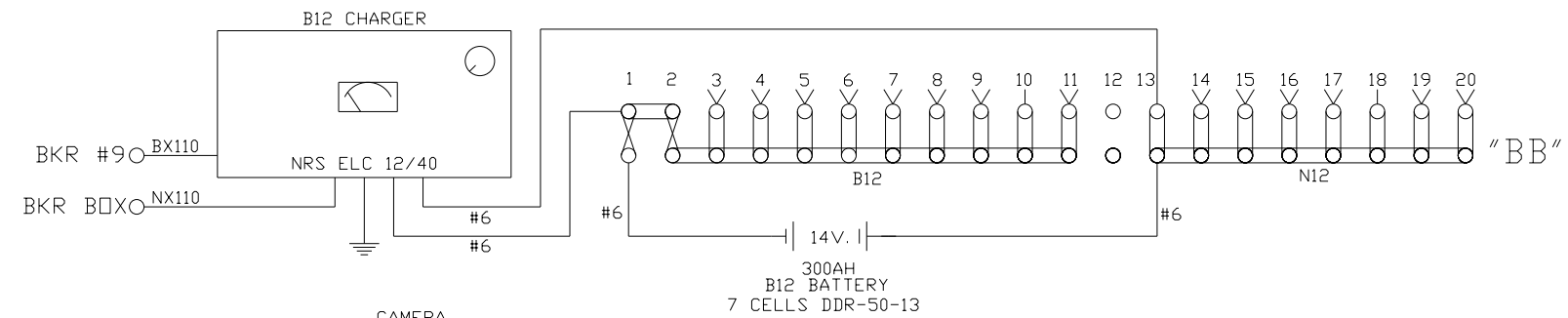
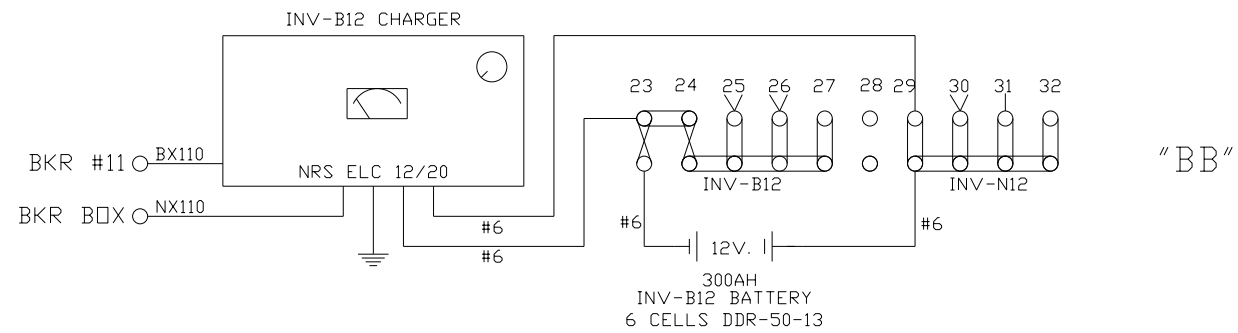
DIAMONDBACK SIGNAL
 (410) 795-9601
 5965 EXCHANGE DRIVE
 SUITE "D"
 SYKESVILLE, MD 21784

NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES		
SCALE: NONE	APPROVED BY:	DRAWN BY: NST
DATE: 06/19/24		REVISED:
FREEBURG ROAD - DOT # 517 535F MP. 07.18 SELINSGROVE, SNYDER COUNTY, PA		
CIRCUIT PLAN "B"		DRAWING NUMBER



- NOTES:
1. ALL WIRE THIS SHEET IS #10 AWG. FLEX UNLESS OTHERWISE NOTED.
 2. FLASHER RELAY W/X-PAK (A62-673)

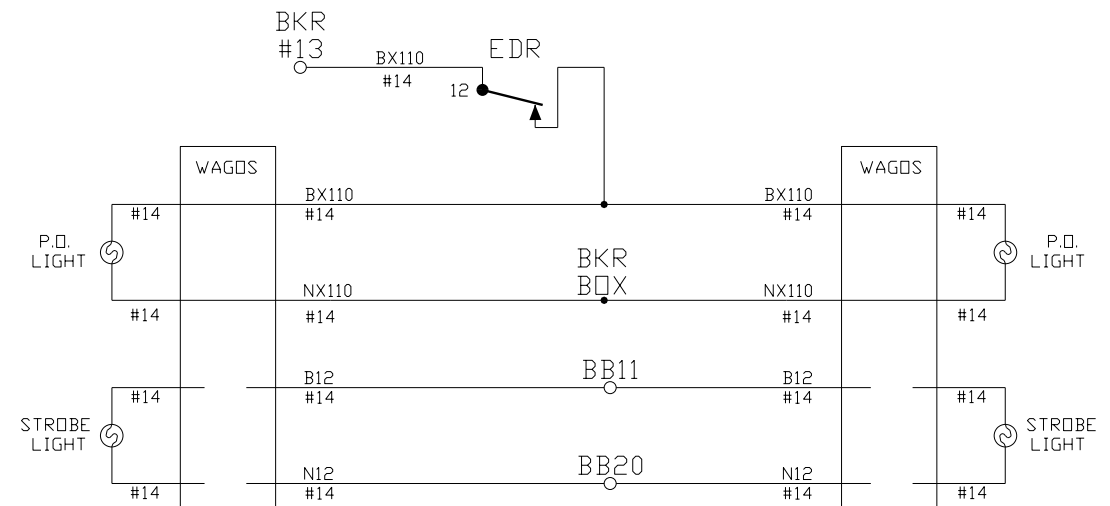
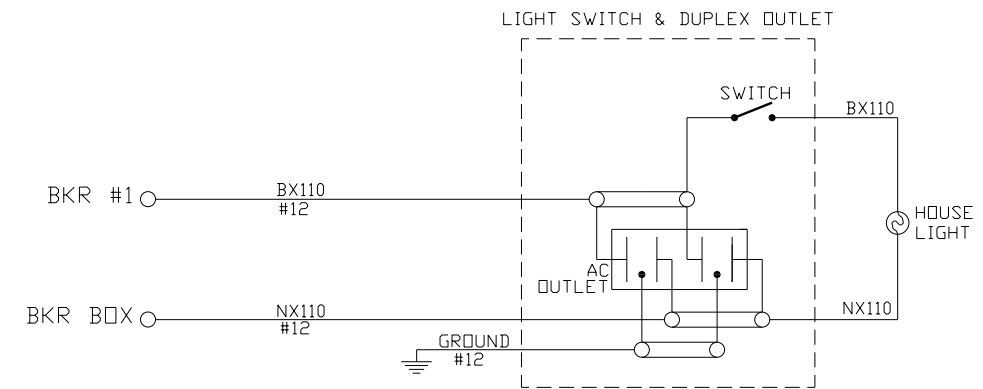
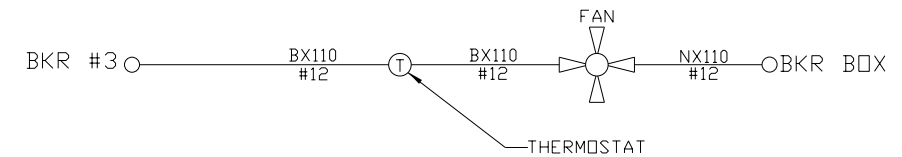
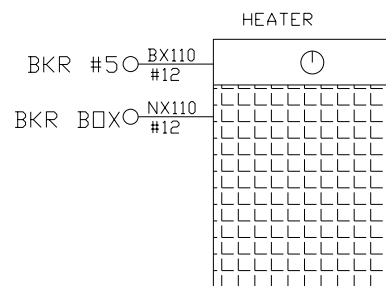
DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED XX/XX/XXXX		AS INSTALLED XX/XX/XXXX	
	NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:	DRAWN BY: NST	
	DATE: 06/19/24	REVISER:	REVISED:	
FREEBURG ROAD - DOT # 517 535F MP. 07.18 SELINGROVE, SNYDER COUNTY, PA				
CIRCUIT PLAN "C"			DRAWING NUMBER	



ERICO EPD 120/240 VENT FAN THERMOSTAT

BREAKER BOX

LIGHTS & OUTLET	1	2	MAIN
FAN	3	4	
HOUSE HEATER	5	6	GEN
LG. TRANS.	7	8	
B12 CHARGER	9	10	GATE HEATERS
INV-B12 CHARGER	11	12	
PD LIGHTS	13	14	NOT USED
NOT USED	15	16	



NOTE:
ALL WIRE THIS SHEET IS #10 AWG FLEX
UNLESS OTHERWISE NOTED.

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

DIAMONDBACK SIGNAL

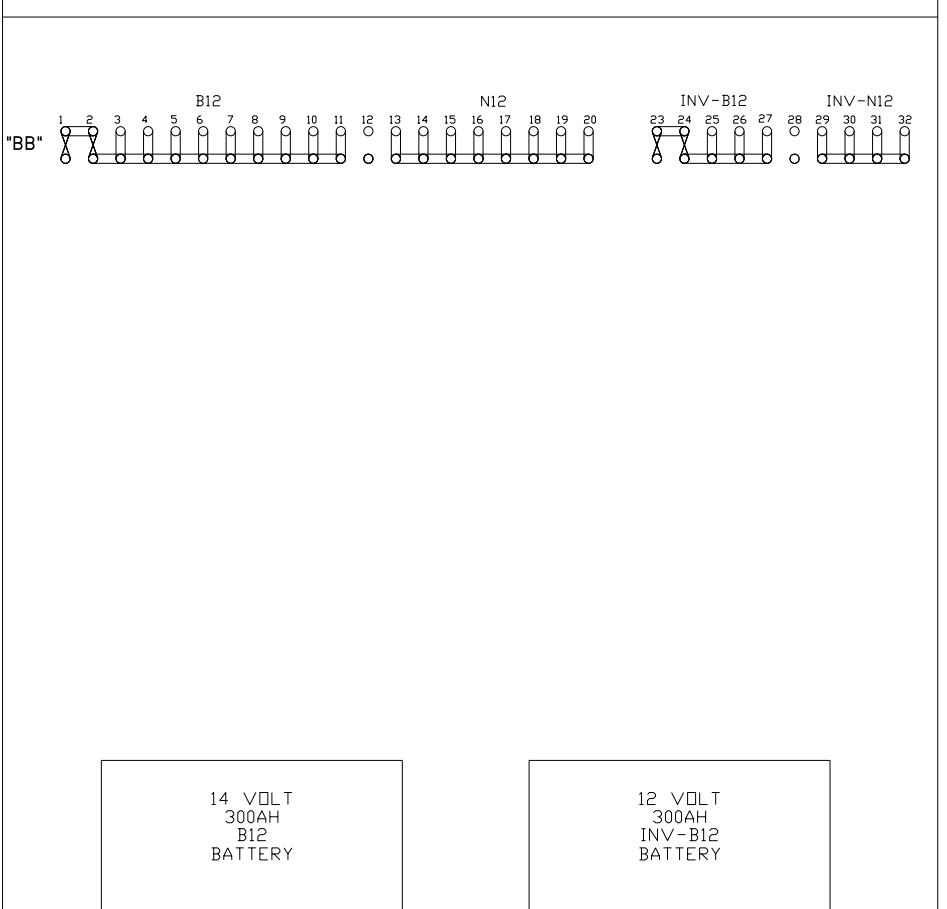
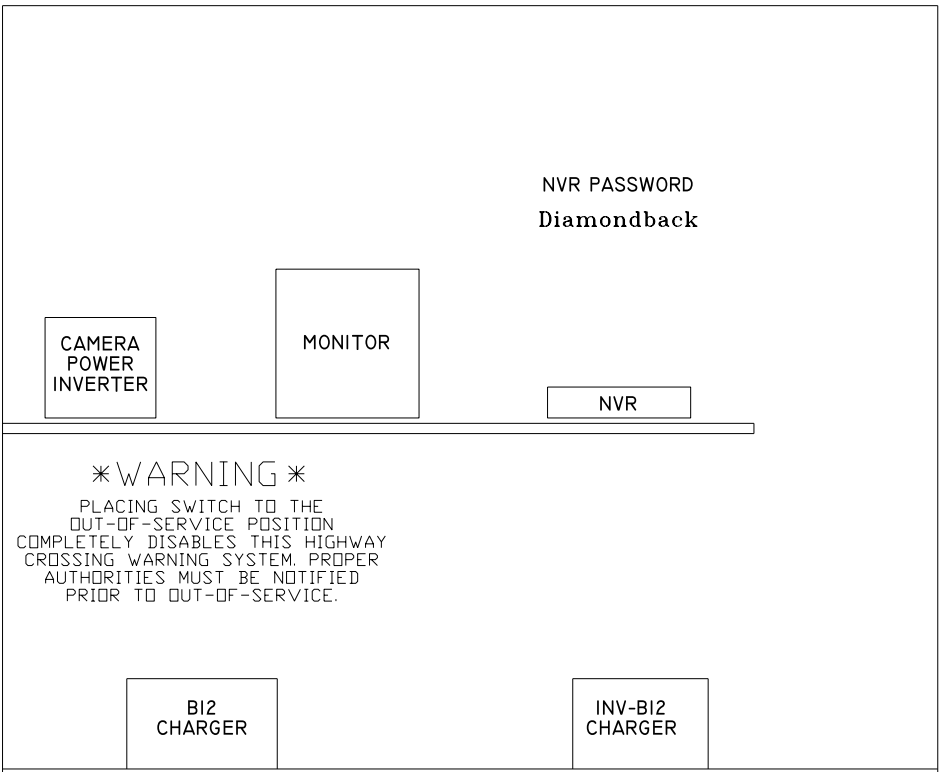
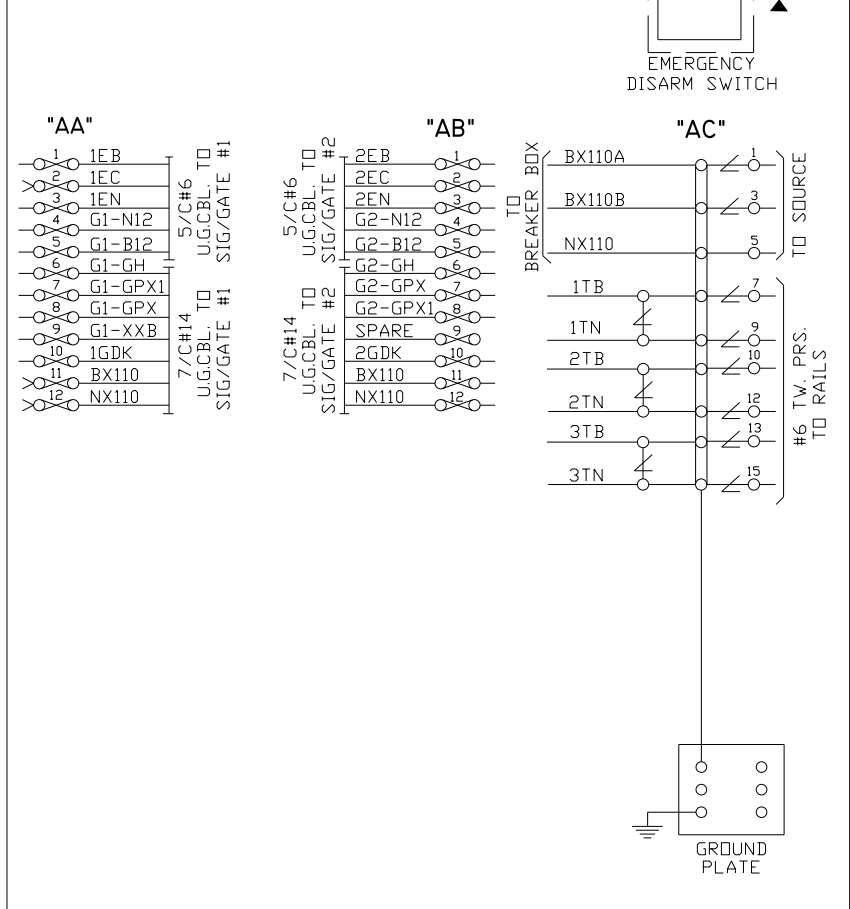
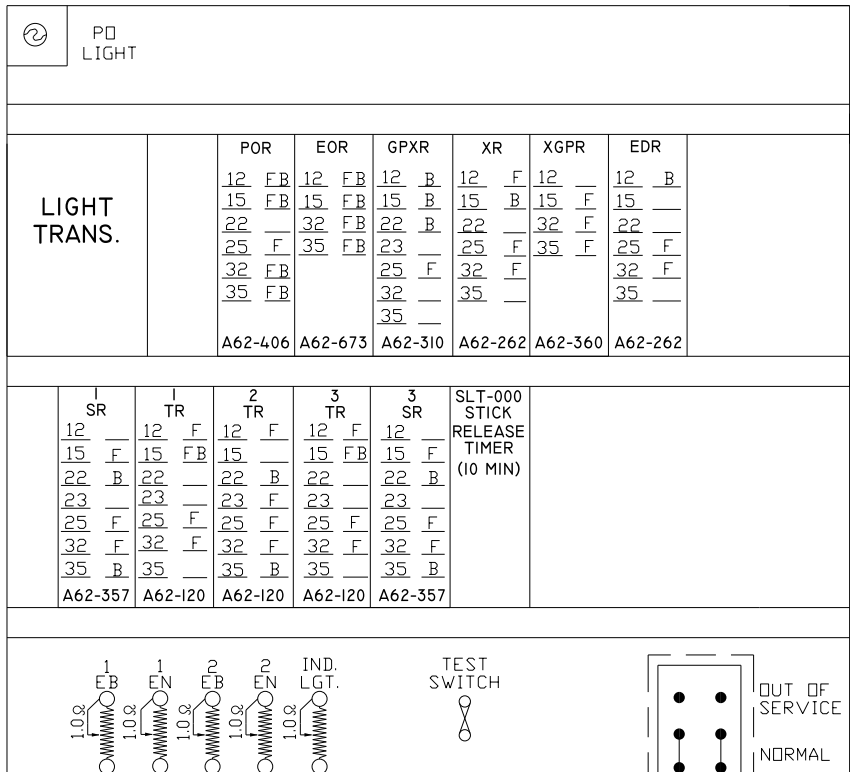
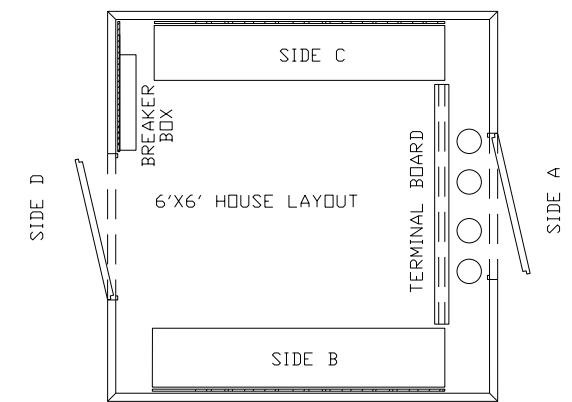
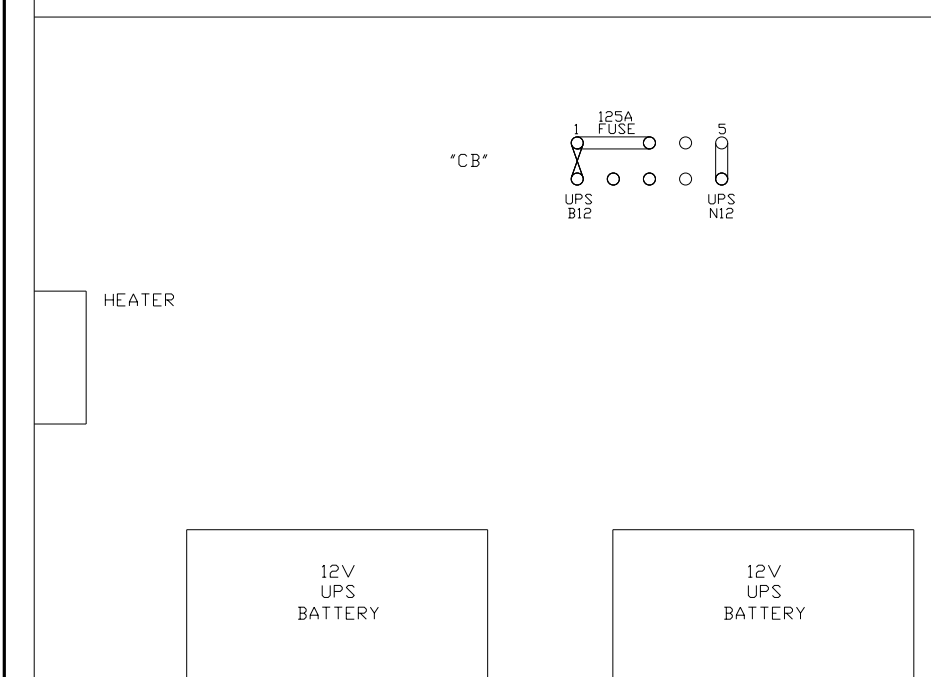
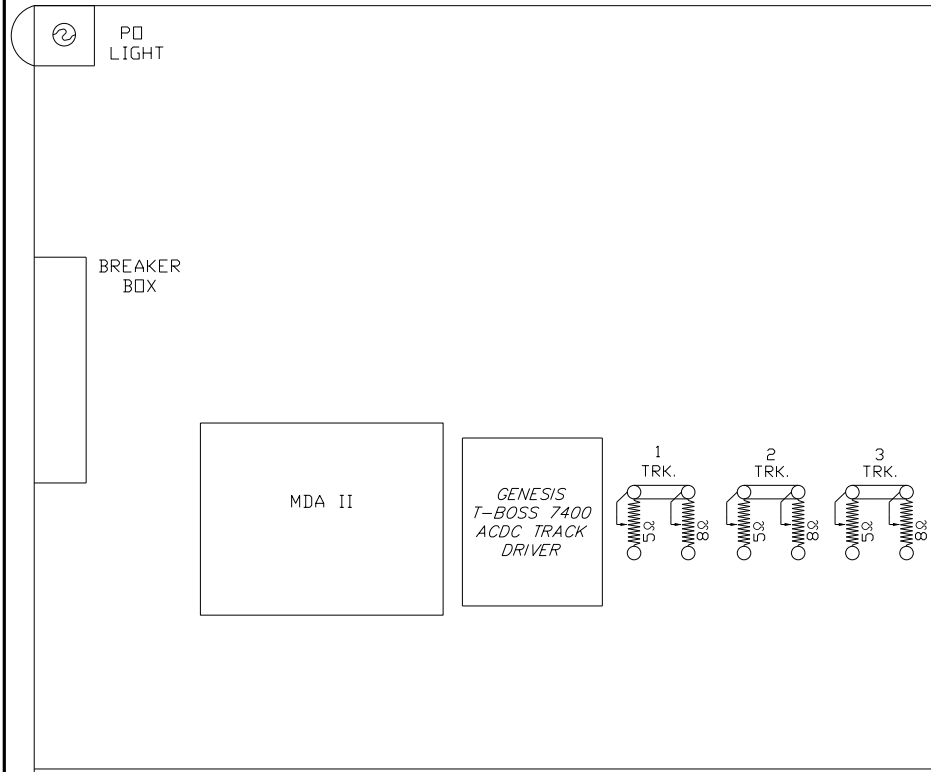
(410) 795-9601
5965 EXCHANGE DRIVE
SUITE "D"
SYKESVILLE, MD
21784

NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES		
SCALE: NONE	APPROVED BY:	DRAWN BY: NST
DATE: 06/19/24		REVISED:
FREEBURG ROAD - DOT # 517 535F MP. 07.18 SELINGROVE, SNYDER COUNTY, PA		
CIRCUIT PLAN "E"		DRAWING NUMBER

SIDE "C"

SIDE "A"

SIDE "B"



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

DIAMONDBACK SIGNAL

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

NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES

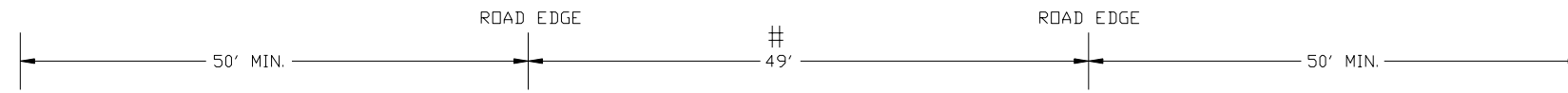
SCALE: NONE APPROVED BY: DRAWN BY: NST
DATE: 06/19/24 REVISED:

FREEBURG ROAD - DOT # 517 535F MP. 07.18
SELINGROVE, SNYDER COUNTY, PA

RELAY HOUSE LAYOUT DRAWING NUMBER

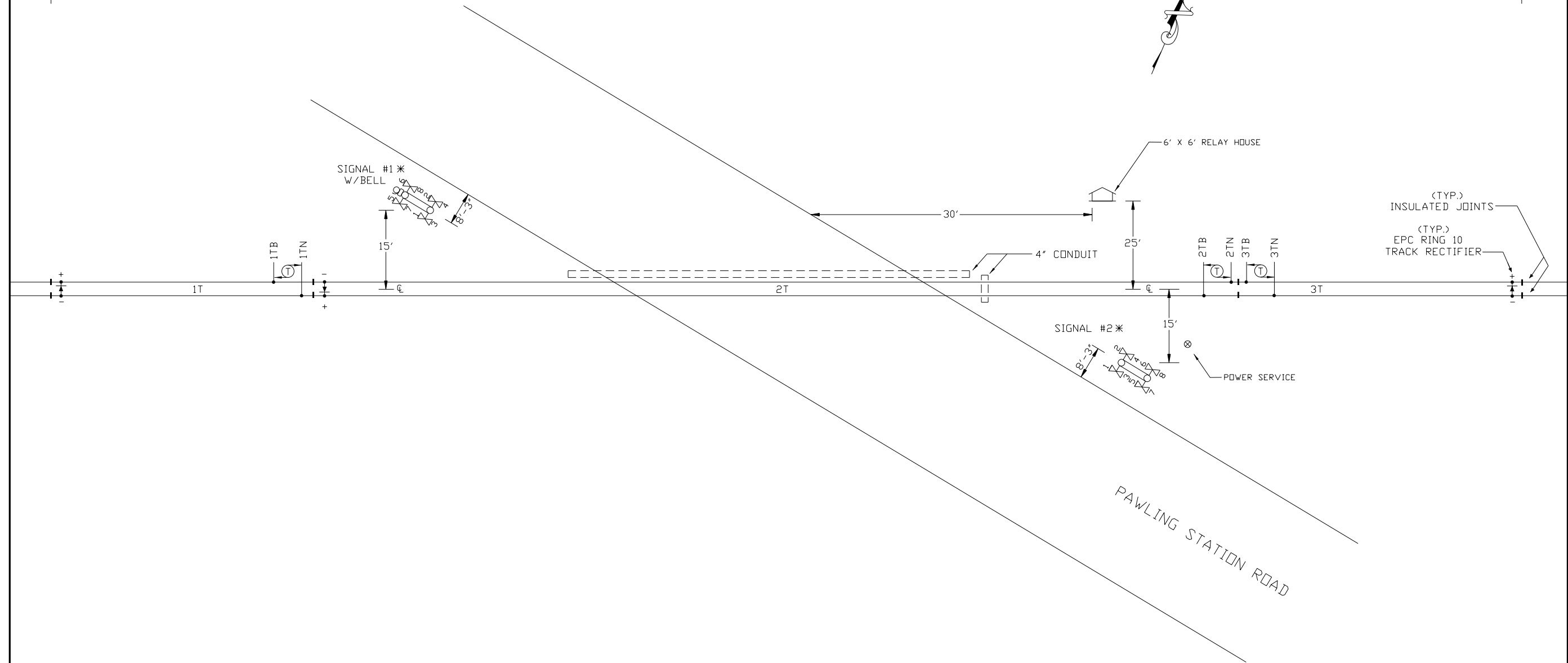
WEST

EAST



START 440'
30 SECS. @ 10 MPH

START 440'
30 SECS. @ 10 MPH



- FIELD TO VERIFY ALL MEASUREMENTS
* - GATE READY

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

CABLE RUN TABULATION

HOUSE TO SIGNAL #1 (GATE READY)	- 5/C #6 UG CABLE
HOUSE TO SIGNAL #2 (GATE READY)	- 7/C #14 UG CABLE
HOUSE TO AC SERVICE	- 5/C #6 UG CABLE
HOUSE TO 1TN & 1TB	- 7/C #14 UG CABLE
HOUSE TO 2TN & 2TB	- 3/C #9 UG CABLE
HOUSE TO 3TN & 3TB	- 2/C #6 TW. PAIR UG CABLE
	- 2/C #6 TW. PAIR UG CABLE

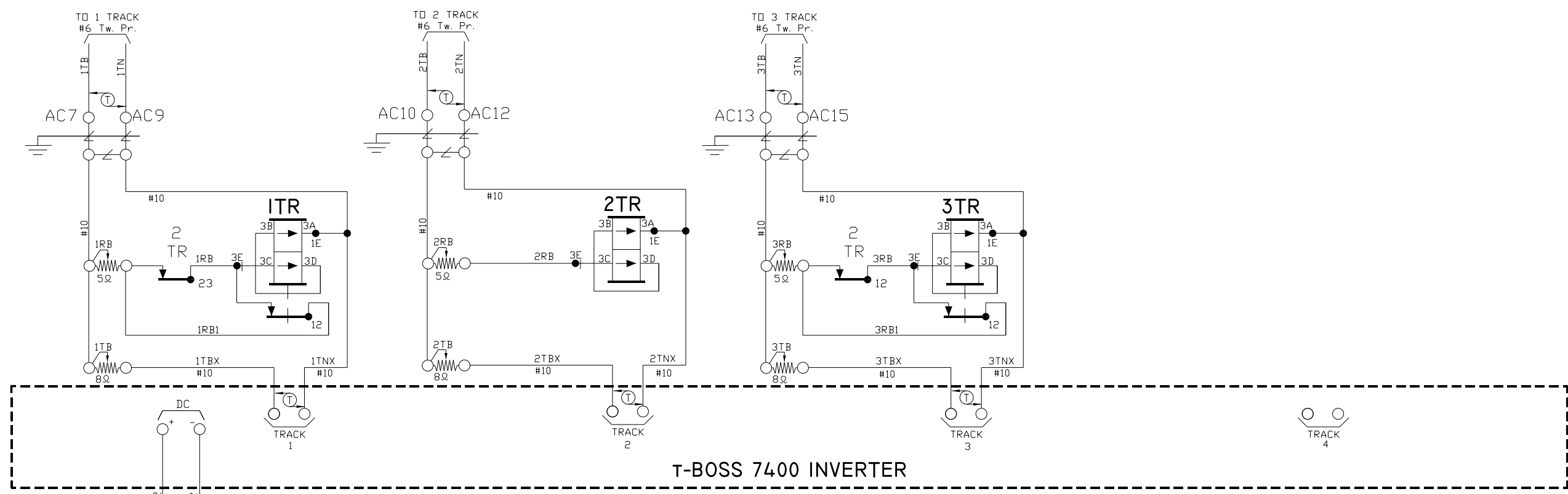
AS WIRED XX/XX/XXXX AS INSTALLED XX/XX/XXXX

DIAMONDBACK SIGNAL

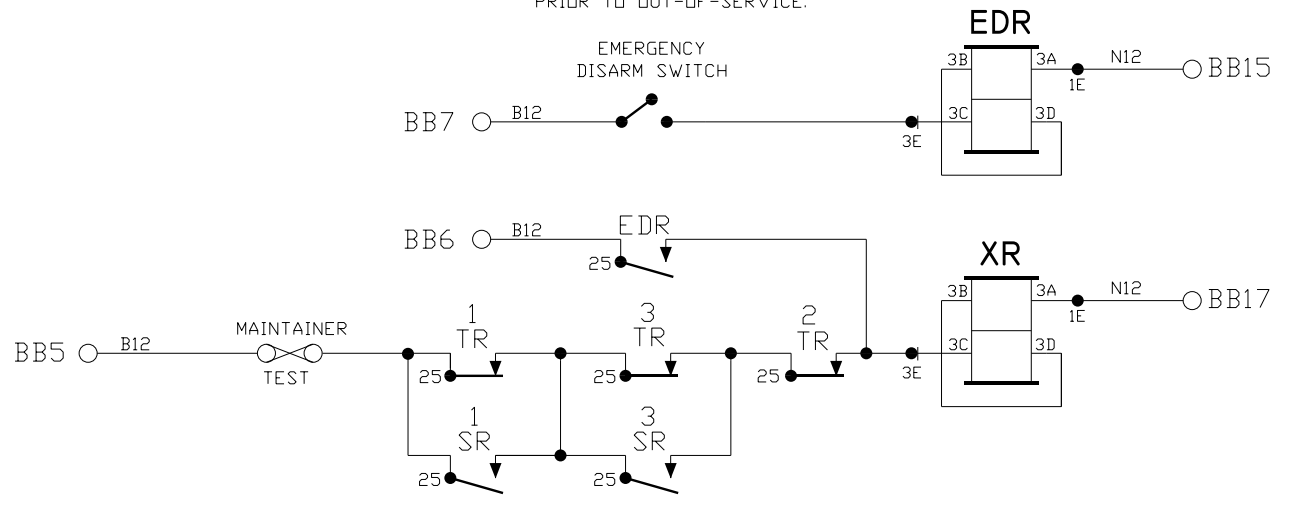
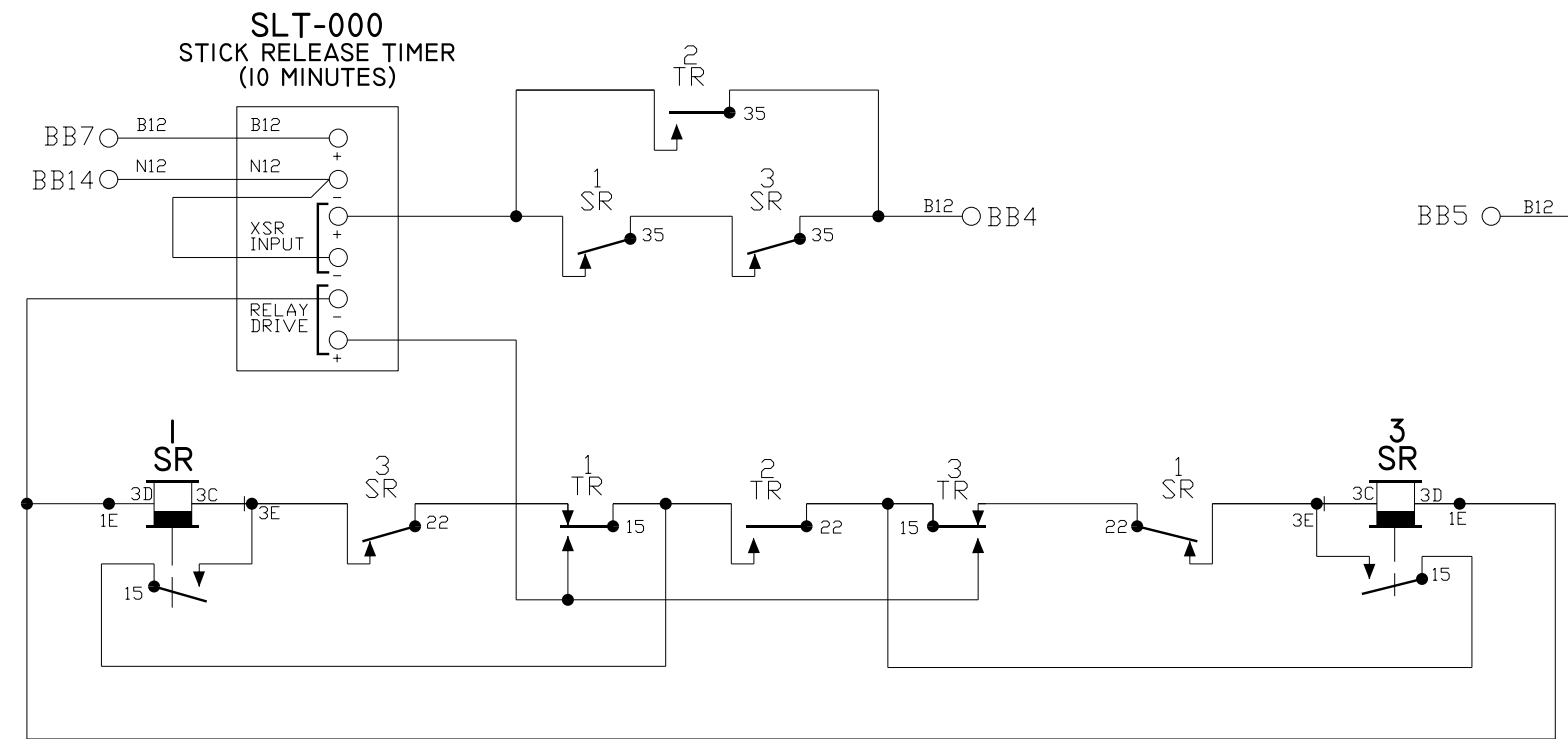
(410) 795-9601
5965 EXCHANGE DRIVE
SUITE "D"
SYKESVILLE, MD
21784

**NORTH SHORE RAILROAD
RAILROAD CROSSING WARNING DEVICES**

SCALE: NONE	APPROVED BY:	DRAWN BY: NST
DATE: 01/18/24		REVISED:
PAWLING STATION ROAD - DOT # 950 926P MP. 05.23 SELINGROVE, SNYDER COUNTY, PA		
TRACK & CABLE PLAN		DRAWING NUMBER

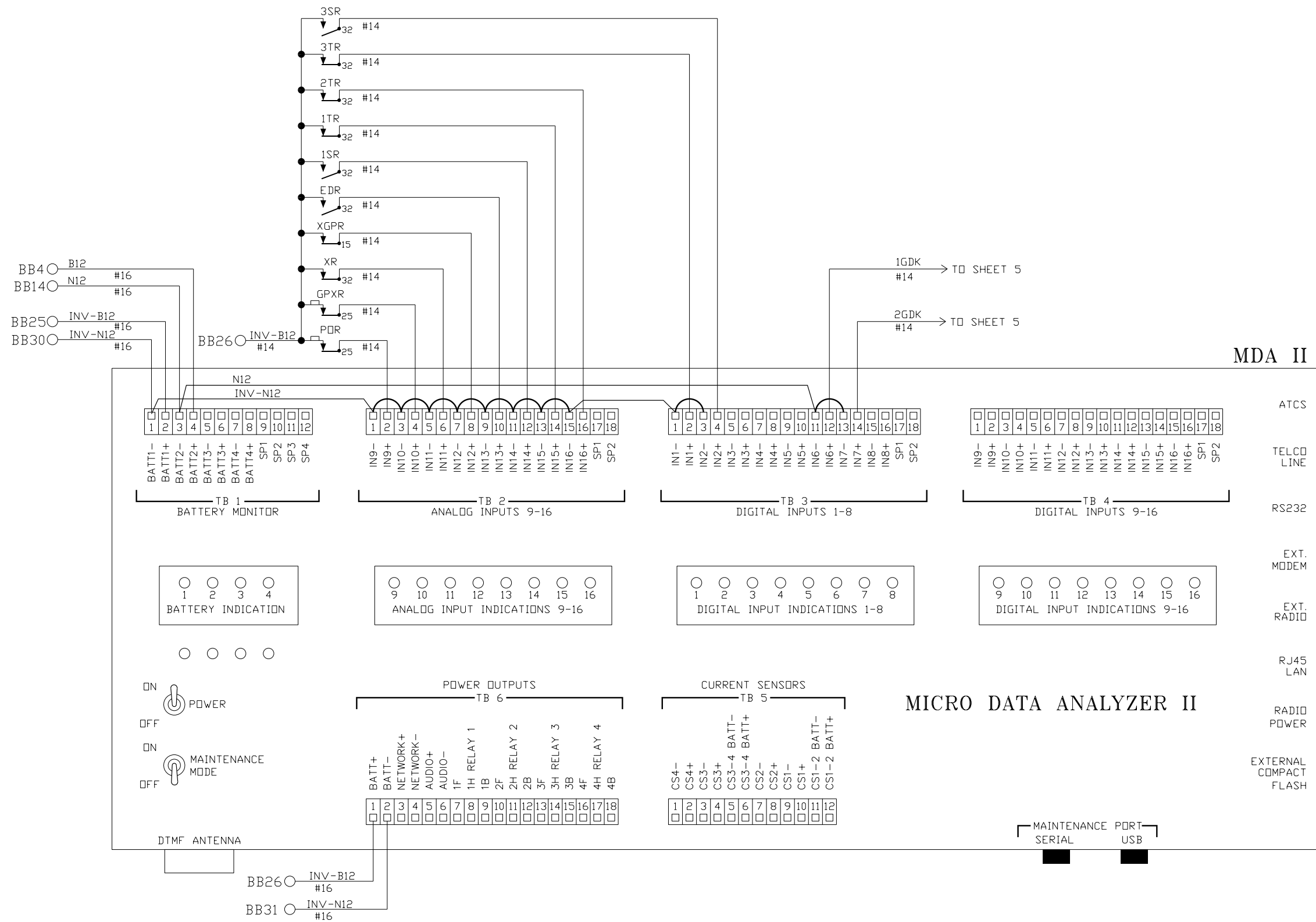


WARNING
 PLACING SWITCH TO THE
 OUT-OF-SERVICE POSITION
 COMPLETELY DISABLES THIS HIGHWAY
 CROSSING WARNING SYSTEM. PROPER
 AUTHORITIES MUST BE NOTIFIED
 PRIOR TO OUT-OF-SERVICE.



- NOTES:
1. ALL WIRE THIS SHEET IS #14 AWG FLEX UNLESS OTHERWISE NOTED.
 2. $\text{\textcircled{T}}$ DENOTES TWISTED PAIR.

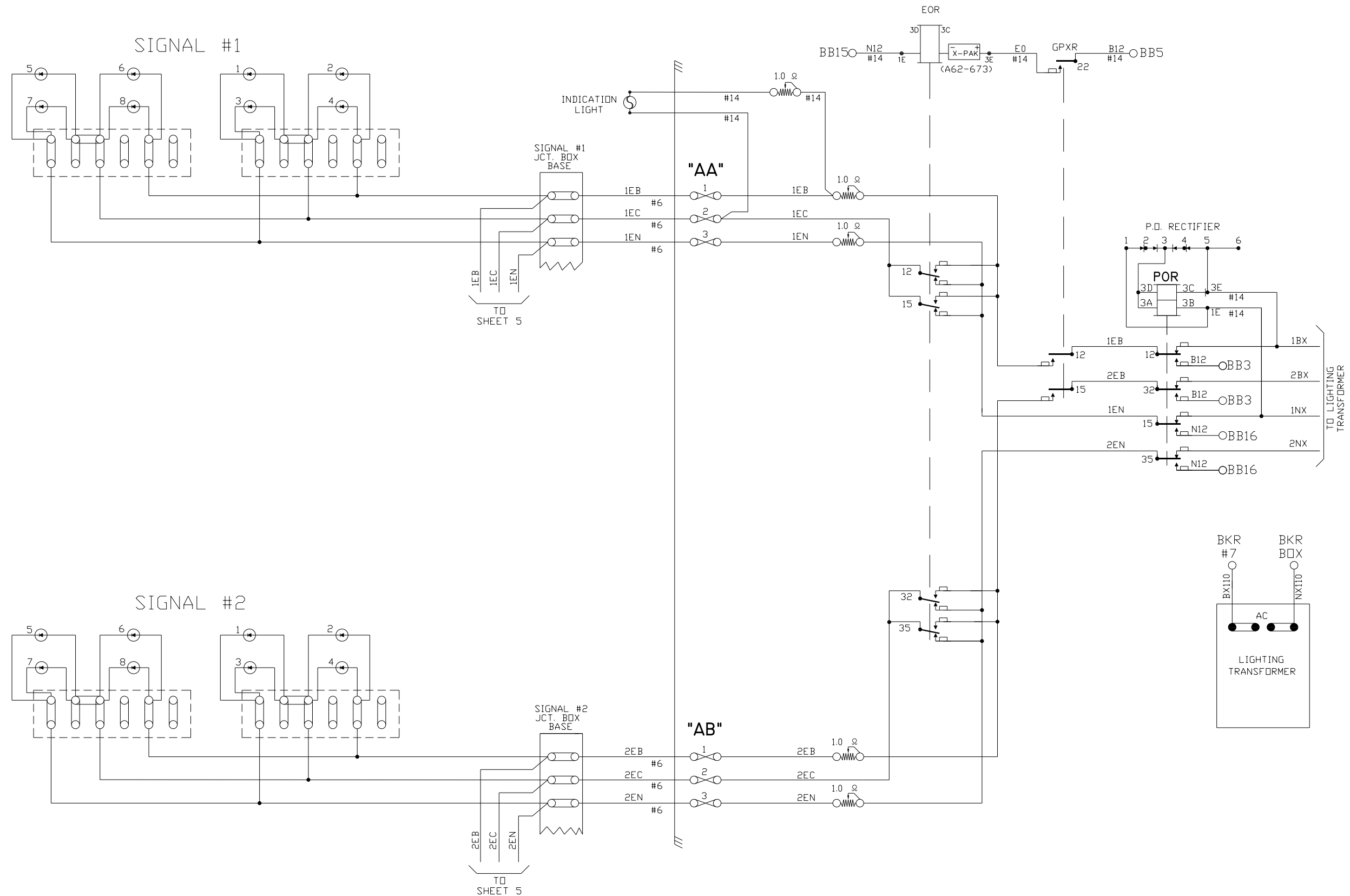
AS WIRED XX/XX/XXXX		AS INSTALLED XX/XX/XXXX	
DIAMONDBACK SIGNAL			
NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: NST	
DATE: 01/18/24		REVISED:	
PAWLING STATION ROAD - DOT # 950 926P MP. 05.23 SELINGROVE, SNYDER COUNTY, PA			
CIRCUIT PLAN "A"			DRAWING NUMBER



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

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

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES	
	SCALE: NONE	APPROVED BY:
	DATE: 01/18/24	DRAWN BY: NST
	PAWLING STATION ROAD - DOT # 950 926P MP. 05.23 SELINGROVE, SNYDER COUNTY, PA	
CIRCUIT PLAN "B"		DRAWING NUMBER



- NOTES:
1. ALL WIRE THIS SHEET IS #10 AWG. FLEX UNLESS OTHERWISE NOTED.
 2. FLASHER RELAY W/X-PAK (A62-673)

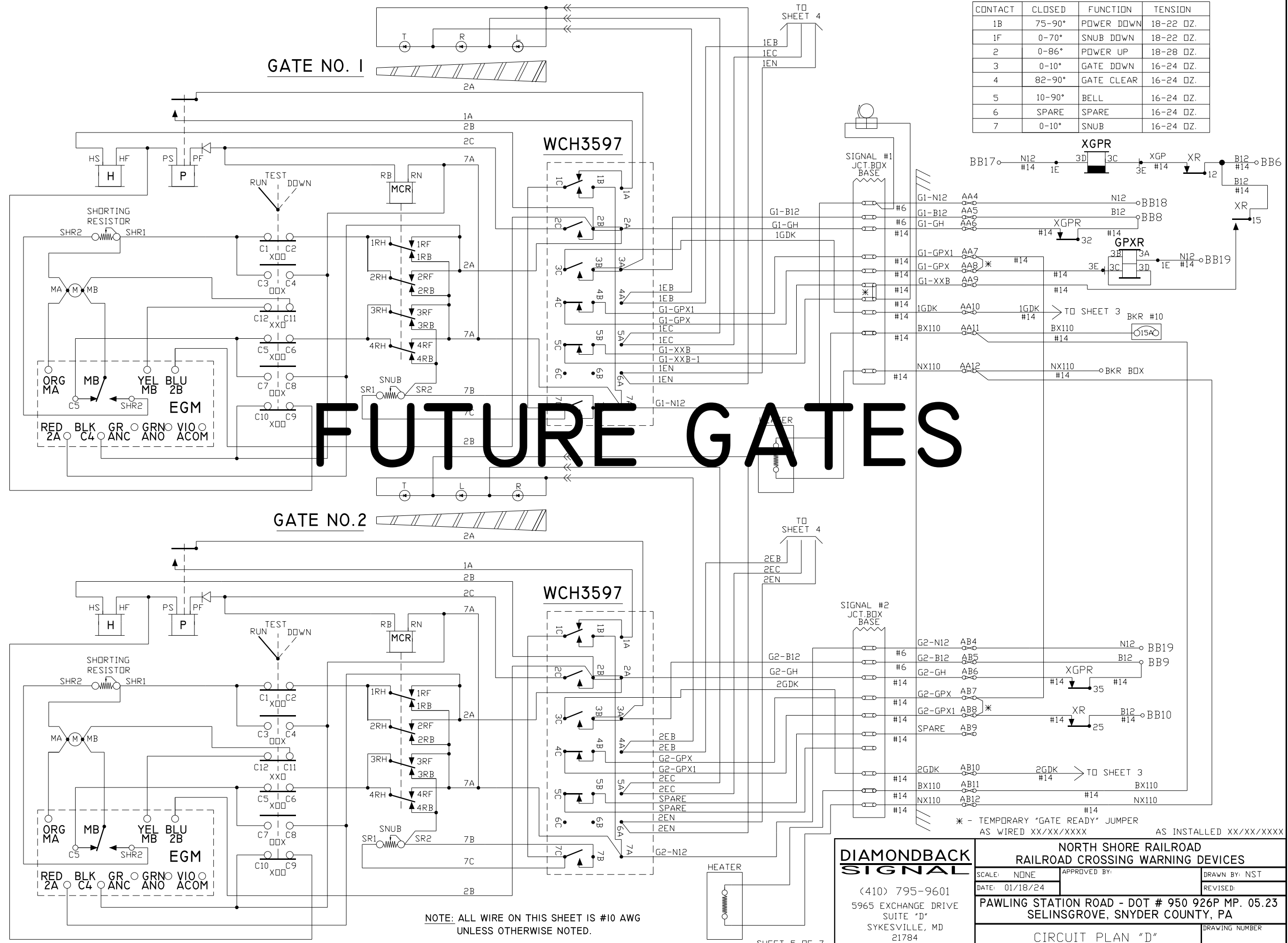
DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED XX/XX/XXXX		AS INSTALLED XX/XX/XXXX	
	NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:	DRAWN BY: NST	
	DATE: 01/18/24	REVISER:	REVISIONS:	
PAWLING STATION ROAD - DOT # 950 926P MP. 05.23 SELINGROVE, SNYDER COUNTY, PA			DRAWING NUMBER	
CIRCUIT PLAN "C"				

GATE NO. 1

GATE NO. 2

CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.

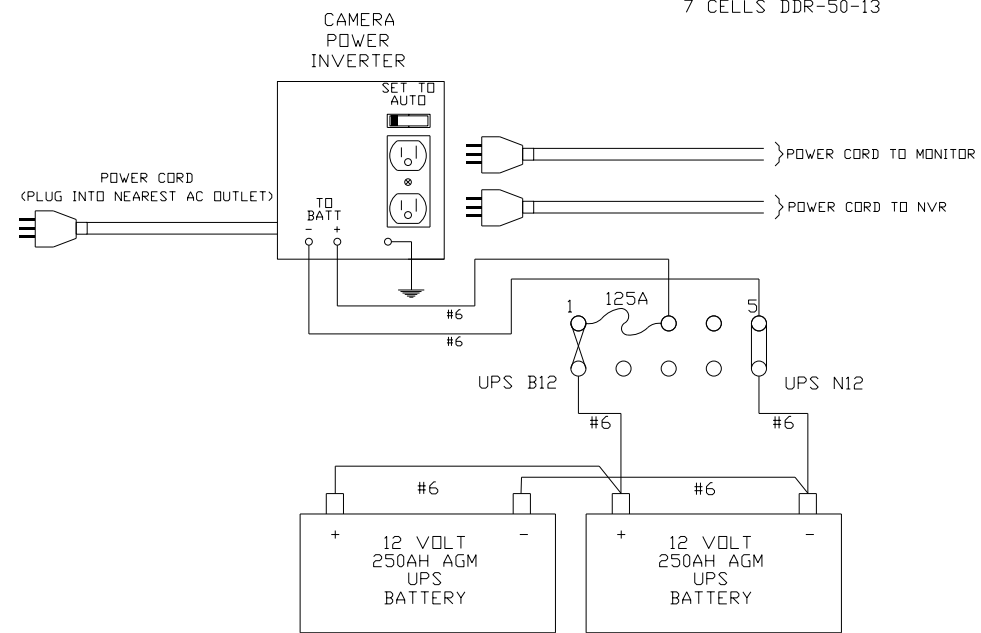
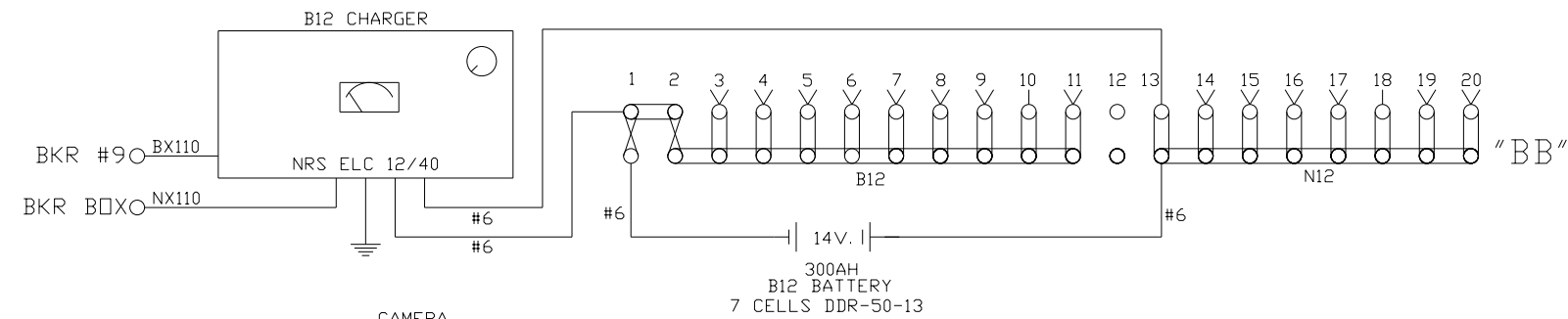
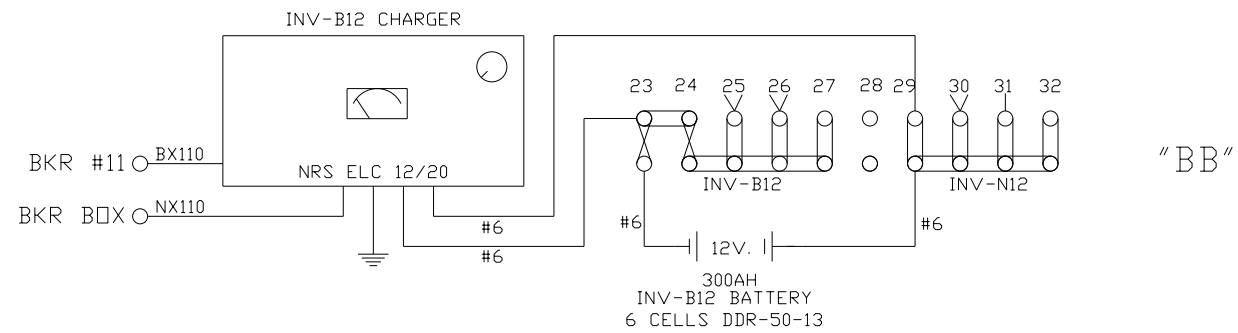
FUTURE GATES



* - TEMPORARY "GATE READY" JUMPER AS WIRED XX/XX/XXXX AS INSTALLED XX/XX/XXXX

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

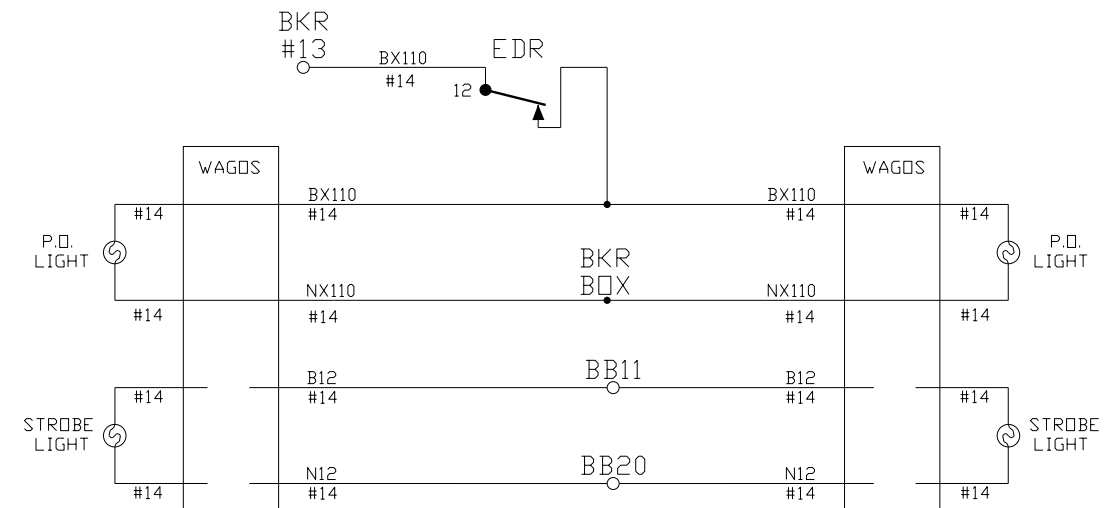
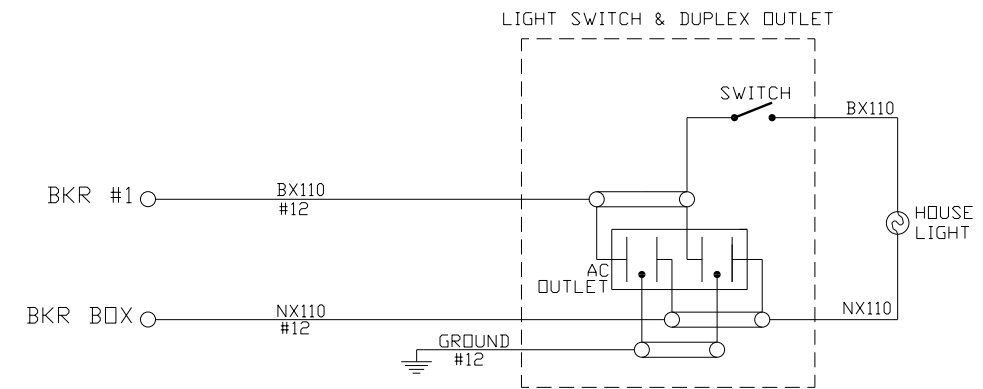
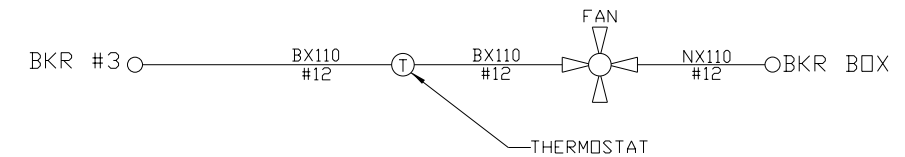
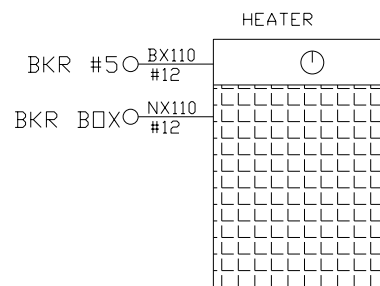
NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES	
SCALE: NONE	APPROVED BY:
DATE: 01/18/24	DRAWN BY: NST
PAWLING STATION ROAD - DOT # 950 926P MP. 05.23 SELINGROVE, SNYDER COUNTY, PA	
CIRCUIT PLAN "D"	
DRAWING NUMBER	



ERICO EPD 120/240 VENT FAN THERMOSTAT

BREAKER BOX

LIGHTS & OUTLET	1	2	MAIN
FAN	3	4	
HOUSE HEATER	5	6	GEN
LG. TRANS.	7	8	
B12 CHARGER	9	10	GATE HEATERS
INV-B12 CHARGER	11	12	
PD LIGHTS	13	14	NOT USED
NOT USED	15	16	



NOTE:

ALL WIRE THIS SHEET IS #10 AWG FLEX UNLESS OTHERWISE NOTED.

AS WIRED XX/XX/XXXX

AS INSTALLED XX/XX/XXXX

DIAMONDBACK SIGNAL

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

**NORTH SHORE RAILROAD
RAILROAD CROSSING WARNING DEVICES**

SCALE: NONE APPROVED BY: DRAWN BY: NST
DATE: 01/18/24 REVISED:

PAWLING STATION ROAD - DOT # 950 926P MP. 05.23
SELINGROVE, SNYDER COUNTY, PA

CIRCUIT PLAN "E"

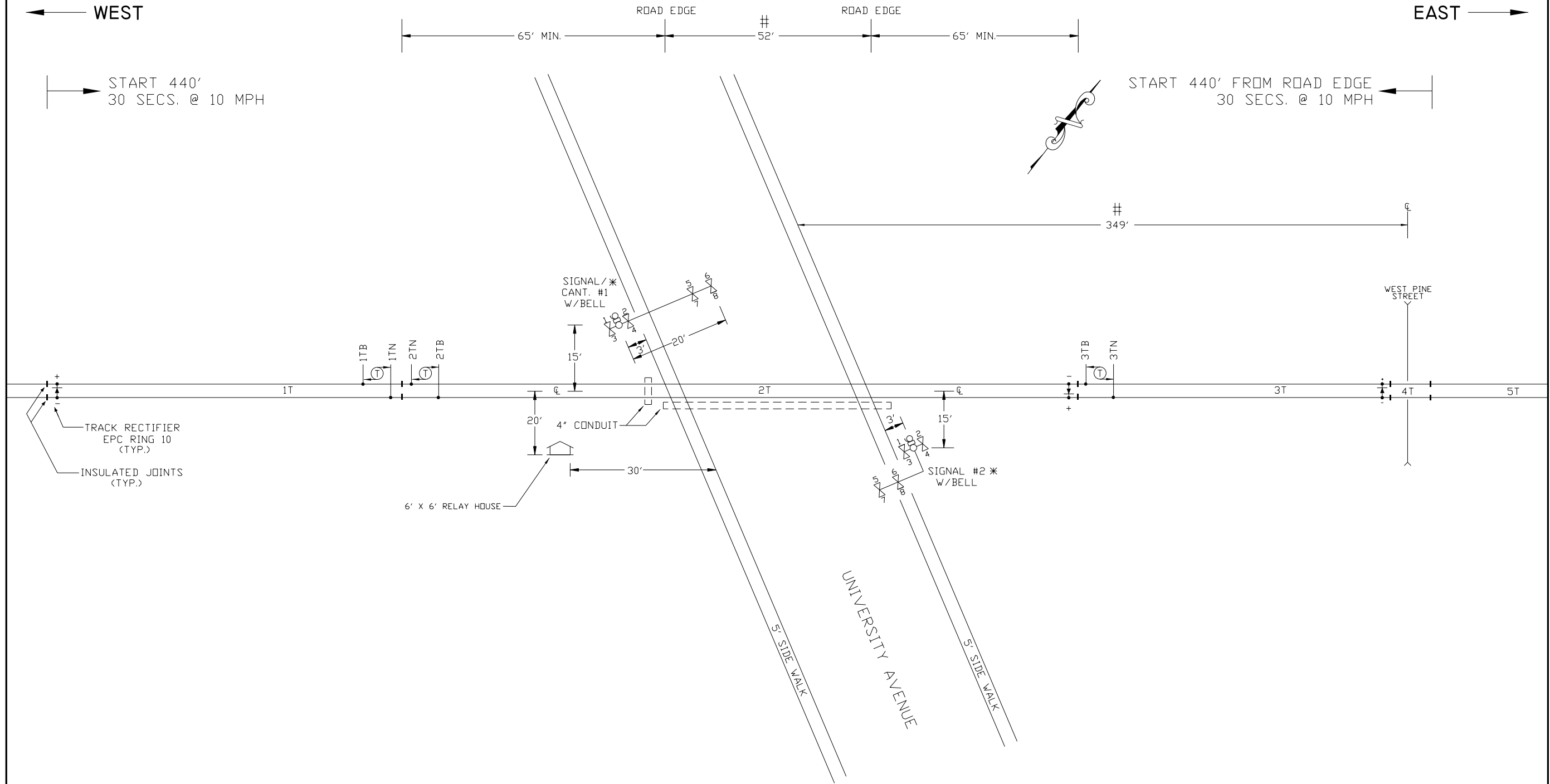
DRAWING NUMBER

WEST

EAST

START 440'
30 SECS. @ 10 MPH

START 440' FROM ROAD EDGE
30 SECS. @ 10 MPH



- FIELD TO VERIFY ALL MEASUREMENTS
* - GATE READY

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

CABLE RUN TABULATION

HOUSE TO SIGNAL #1 (GATE READY)	- 5/C #6 UG CABLE
HOUSE TO SIGNAL #2 (GATE READY)	- 7/C #14 UG CABLE
HOUSE TO AC SERVICE	- 3/C #9 UG CABLE
HOUSE TO 1TN & 1TB	- 2/C #6 TW. PAIR UG CABLE
HOUSE TO 2TN & 2TB	- 2/C #6 TW. PAIR UG CABLE
HOUSE TO 3TN & 3TB	- 2/C #6 TW. PAIR UG CABLE
HOUSE TO WEST PINE	- 7/C #14 UG CABLE

AS WIRED XX/XX/XXXX

AS INSTALLED XX/XX/XXXX

DIAMONDBACK SIGNAL

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

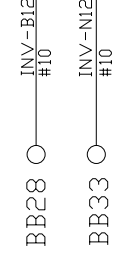
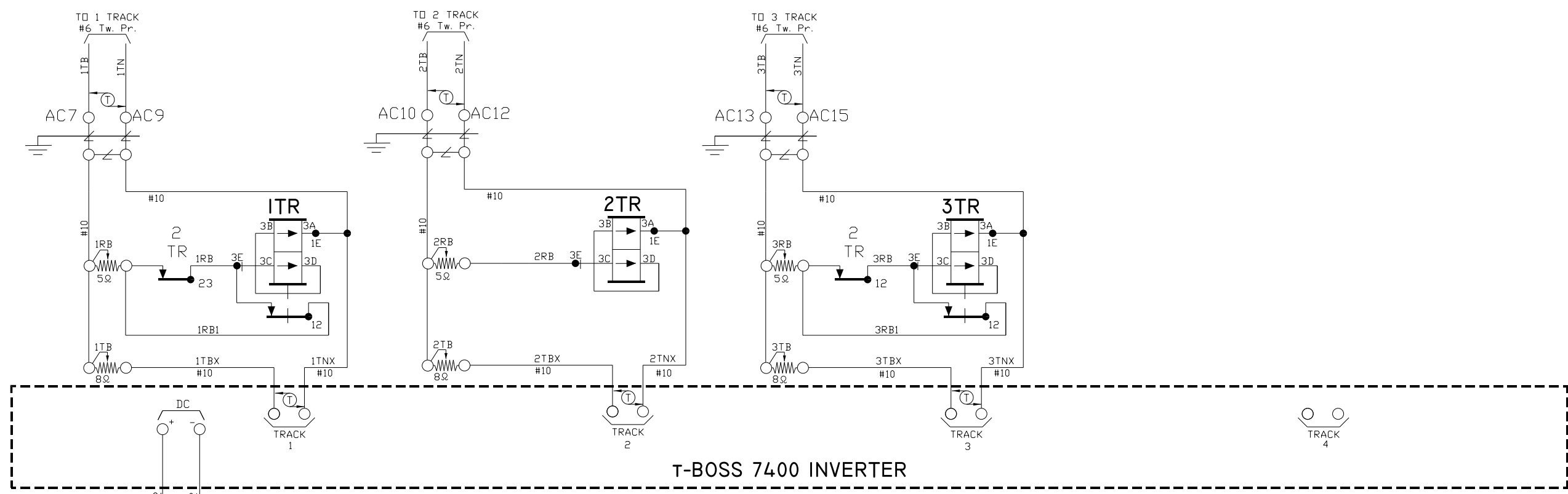
**NORTH SHORE RAILROAD
RAILROAD CROSSING WARNING DEVICES**

SCALE: NONE	APPROVED BY:	DRAWN BY: NST
DATE: 05/07/2024		REVISED:

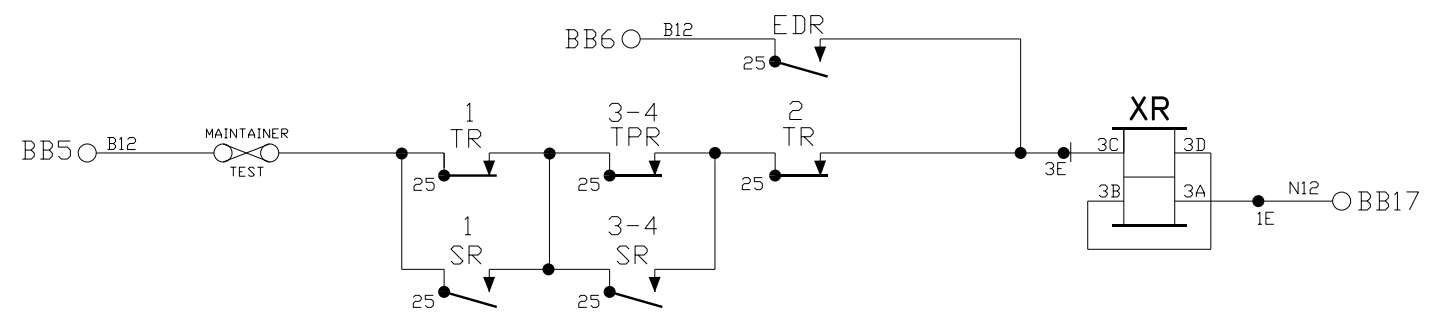
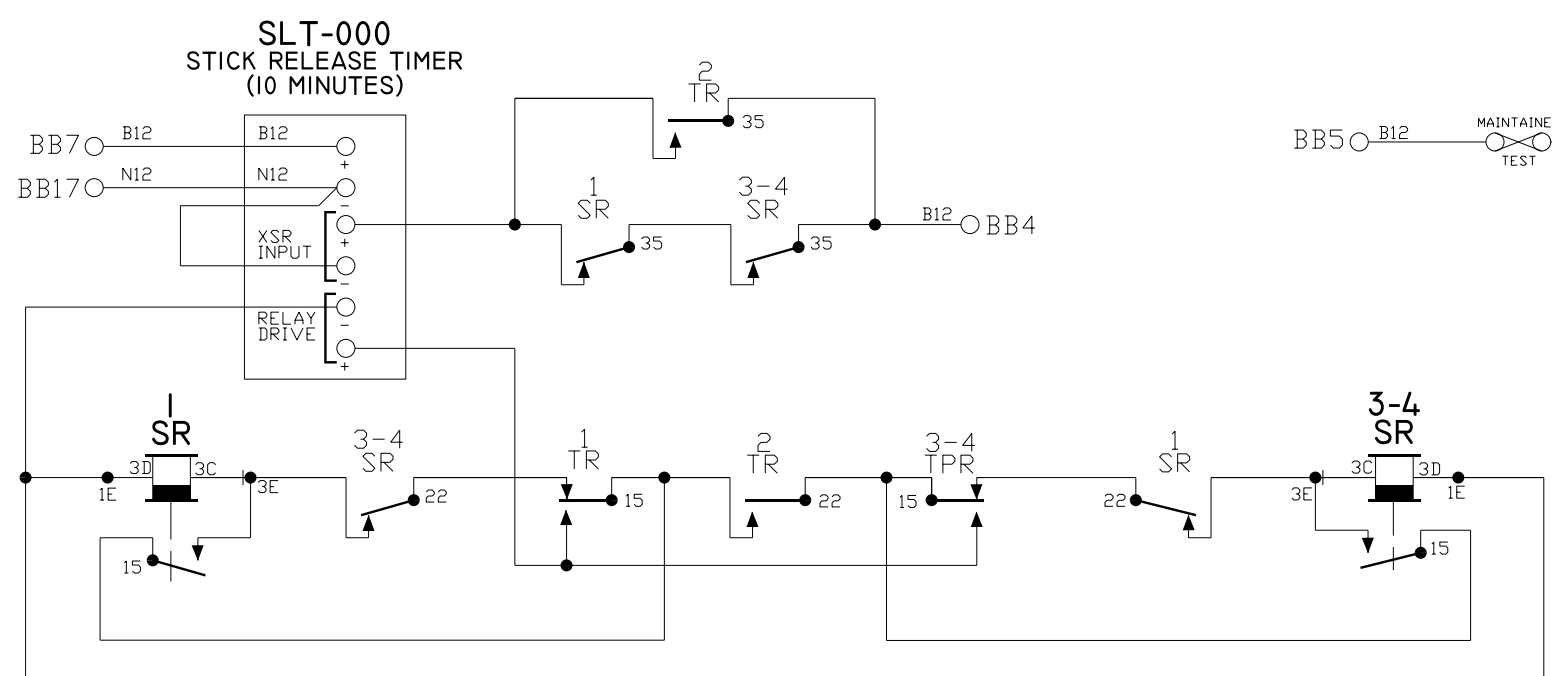
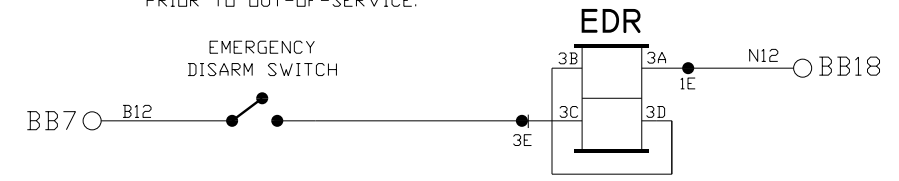
**UNIVERSITY AVENUE - DOT # 517 522E MP. 01.43
SELINGROVE, SNYDER COUNTY, PA**

TRACK & CABLE PLAN

DRAWING NUMBER

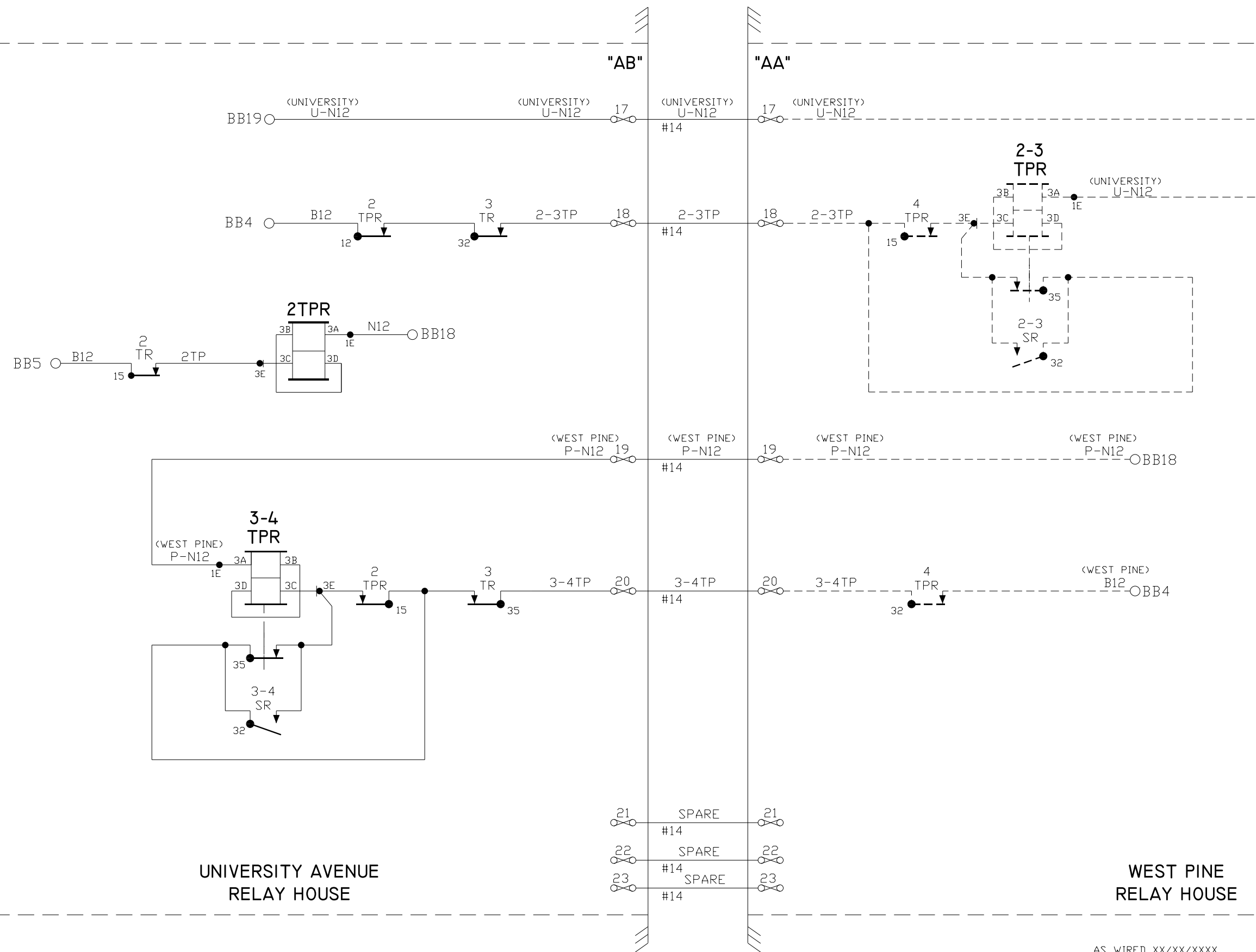


WARNING
 PLACING SWITCH TO THE
 OUT-OF-SERVICE POSITION
 COMPLETELY DISABLES THIS HIGHWAY
 CROSSING WARNING SYSTEM. PROPER
 AUTHORITIES MUST BE NOTIFIED
 PRIOR TO OUT-OF-SERVICE.



- NOTES:
1. ALL WIRE THIS SHEET IS #14 AWG FLEX UNLESS OTHERWISE NOTED.
 2. (T) DENOTES TWISTED PAIR.

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784		AS WIRED XX/XX/XXXX		AS INSTALLED XX/XX/XXXX	
		NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:		DRAWN BY: NST		
DATE: 05/07/2024	UNIVERSITY AVENUE - DOT # 517 522E MP. 01.43 SELINGROVE, SNYDER COUNTY, PA		REVISED:		
CIRCUIT PLAN "A"			DRAWING NUMBER		

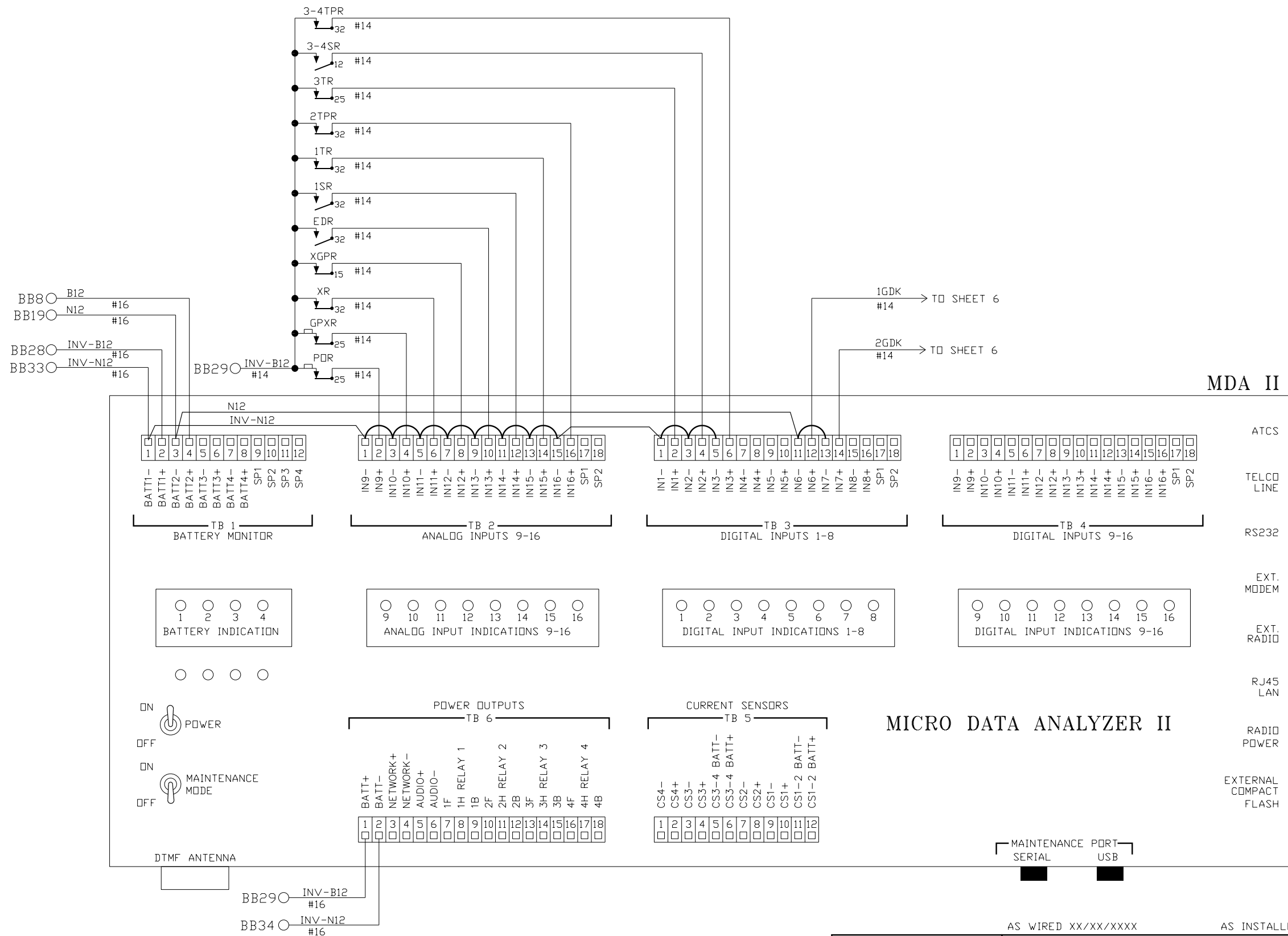


UNIVERSITY AVENUE
RELAY HOUSE

WEST PINE
RELAY HOUSE

- NOTES:
1. ALL WIRE THIS SHEET IS #14 AWG FLEX UNLESS OTHERWISE NOTED.
 2. \overline{T} DENOTES TWISTED PAIR.

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED XX/XX/XXXX		AS INSTALLED XX/XX/XXXX	
	NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:	DRAWN BY: NST	
	DATE: 05/07/2024	REVISI:	UNIVERSITY AVENUE - DOT # 517 522E MP. 01.43 SELINGROVE, SNYDER COUNTY, PA	
CIRCUIT PLAN "B"			DRAWING NUMBER	



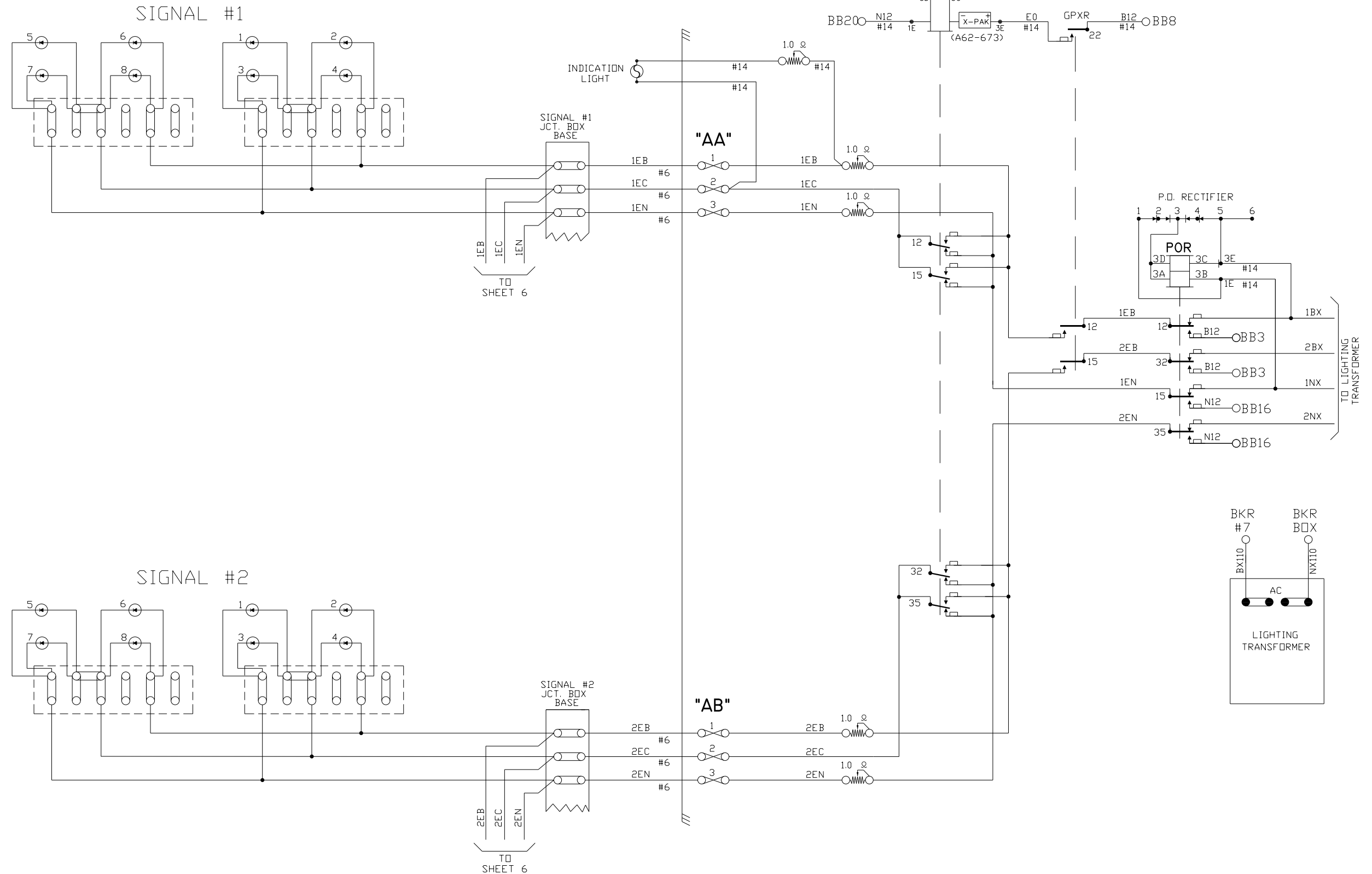
MDA II

MICRO DATA ANALYZER II

- ATCS
- TELCO LINE
- RS232
- EXT. MODEM
- EXT. RADIO
- RJ45 LAN
- RADIO POWER
- EXTERNAL COMPACT FLASH

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

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED XX/XX/XXXX		AS INSTALLED XX/XX/XXXX	
	NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:	DRAWN BY: NST	
	DATE: 05/07/2024		REVISED:	
UNIVERSITY AVENUE - DOT # 517 522E MP. 01.43 SELINGROVE, SNYDER COUNTY, PA			DRAWING NUMBER	
CIRCUIT PLAN "C"				



- NOTES:
1. ALL WIRE THIS SHEET IS #10 AWG. FLEX UNLESS OTHERWISE NOTED.
 2. FLASHER RELAY W/X-PAK (A62-673)

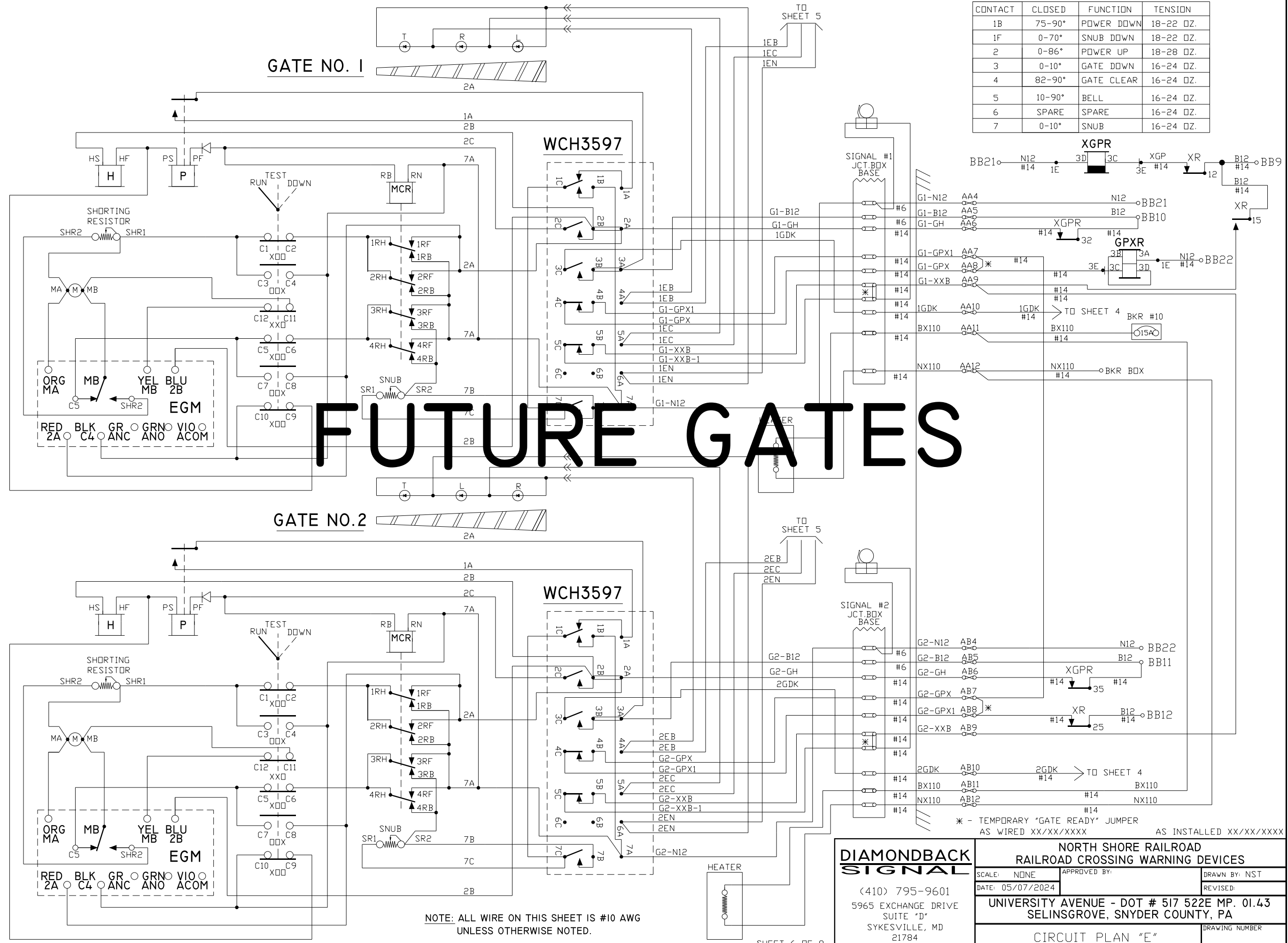
DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED XX/XX/XXXX		AS INSTALLED XX/XX/XXXX	
	NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:	DRAWN BY: NST	
	DATE: 05/07/2024	REVISER:	UNIVERSITY AVENUE - DOT # 517 522E MP. 01.43 SELINGROVE, SNYDER COUNTY, PA	
CIRCUIT PLAN "D"			DRAWING NUMBER	

GATE NO. 1

GATE NO. 2

CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.

FUTURE GATES



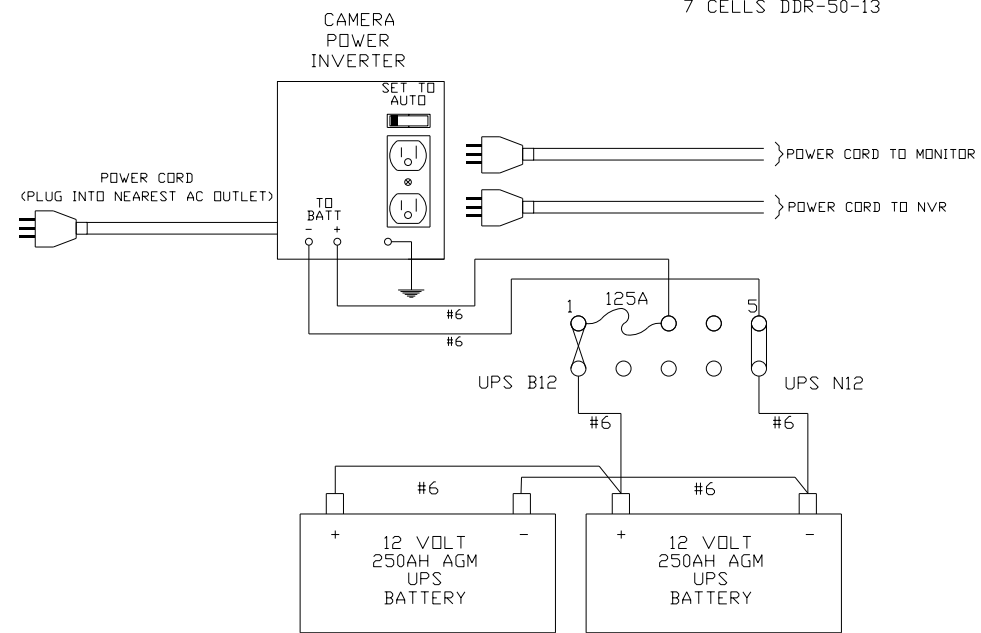
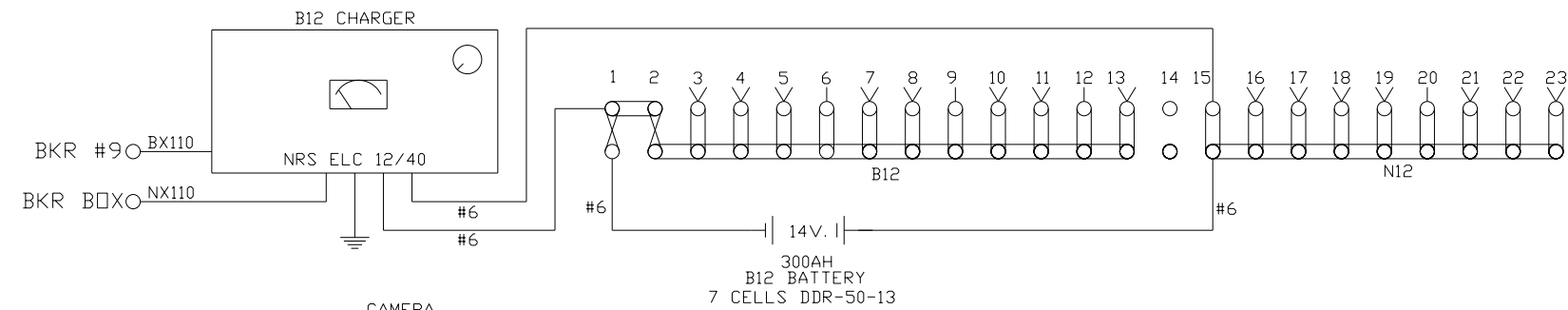
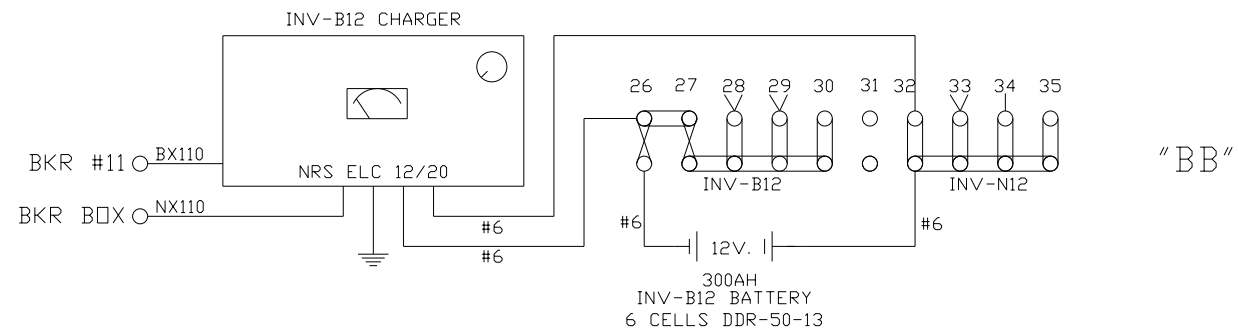
* - TEMPORARY "GATE READY" JUMPER AS WIRED XX/XX/XXXX AS INSTALLED XX/XX/XXXX

NOTE: ALL WIRE ON THIS SHEET IS #10 AWG UNLESS OTHERWISE NOTED.

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

NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES

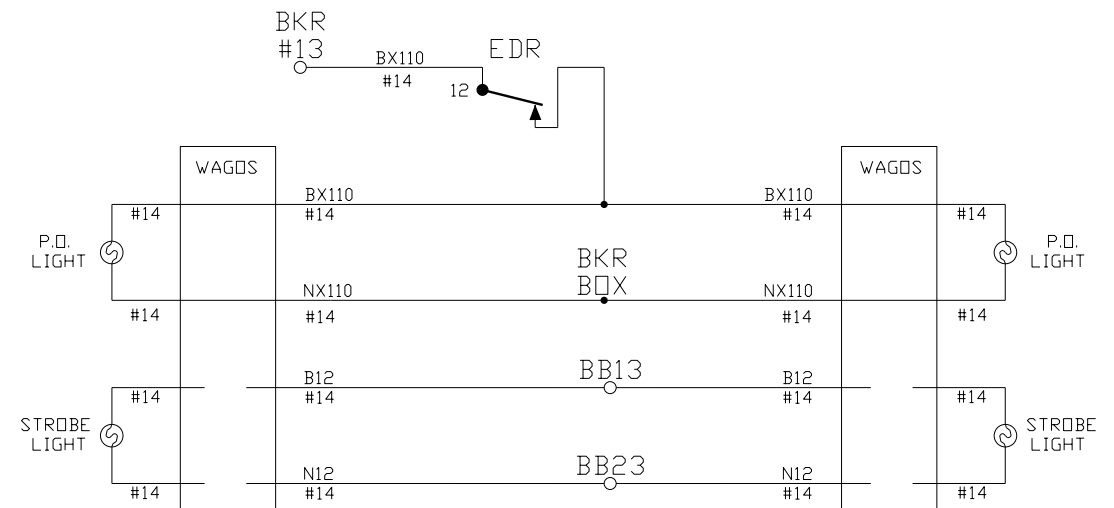
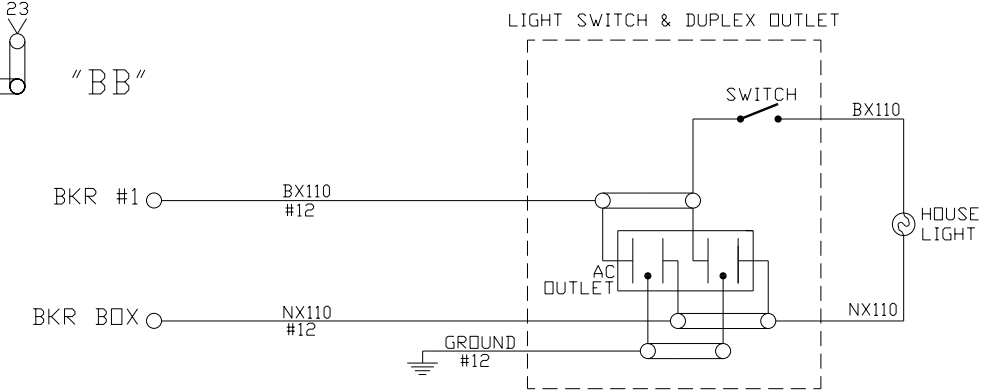
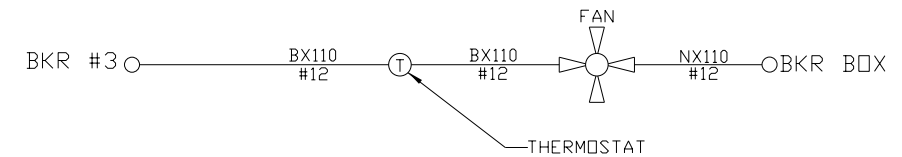
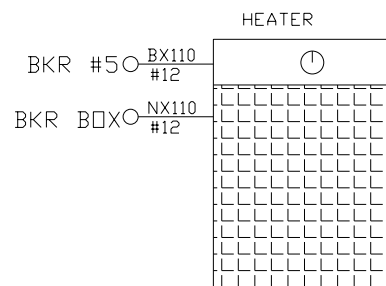
SCALE: NONE	APPROVED BY:	DRAWN BY: NST
DATE: 05/07/2024		REVISED:
UNIVERSITY AVENUE - DOT # 517 522E MP. 01.43 SELINGROVE, SNYDER COUNTY, PA		DRAWING NUMBER
CIRCUIT PLAN "E"		



ERICO EPD 120/240 VENT FAN THERMOSTAT

BREAKER BOX

LIGHTS & OUTLET	1	2	MAIN
FAN	3	4	
HOUSE HEATER	5	6	GEN
LG. TRANS.	7	8	
B12 CHARGER	9	10	GATE HEATERS
INV-B12 CHARGER	11	12	
PO LIGHTS	13	14	NOT USED
NOT USED	15	16	

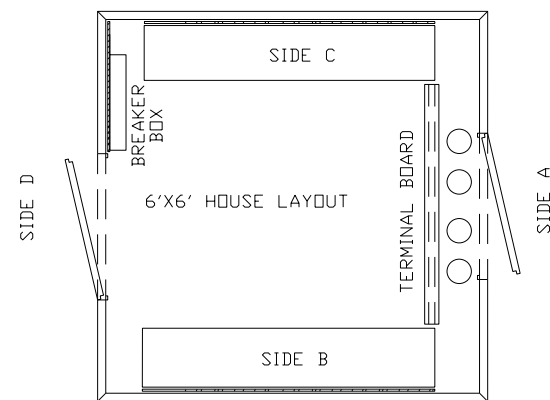
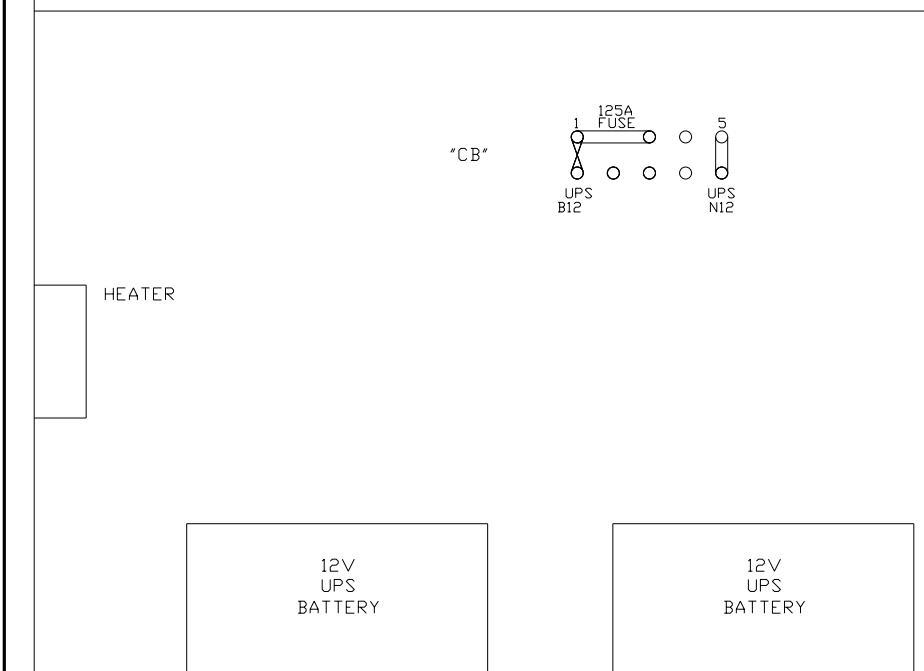
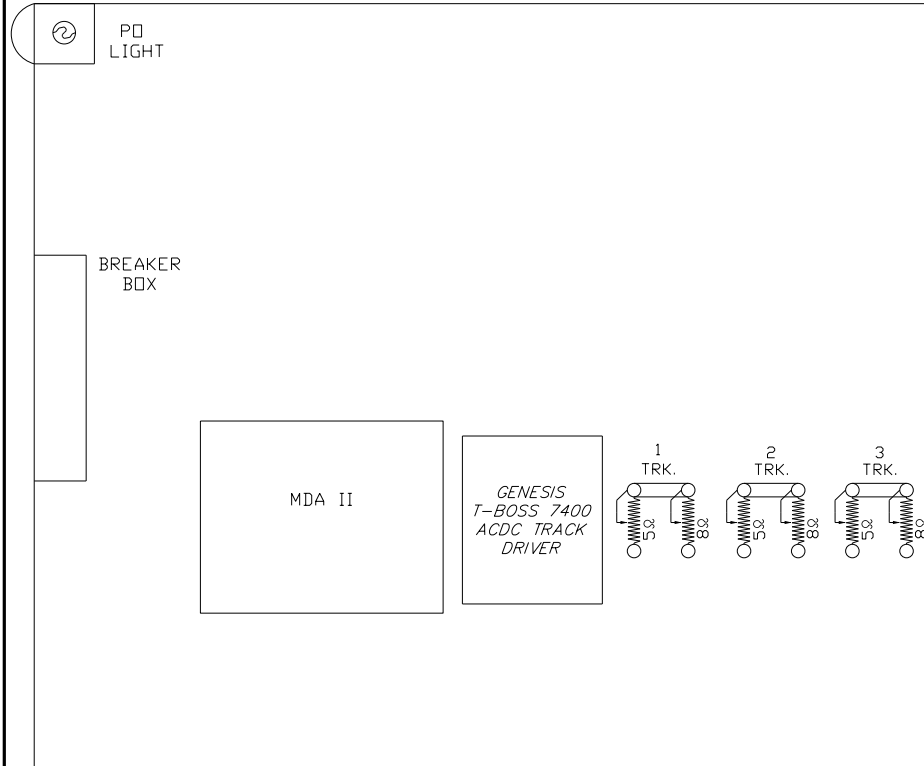


NOTE:
ALL WIRE THIS SHEET IS #10 AWG FLEX
UNLESS OTHERWISE NOTED.

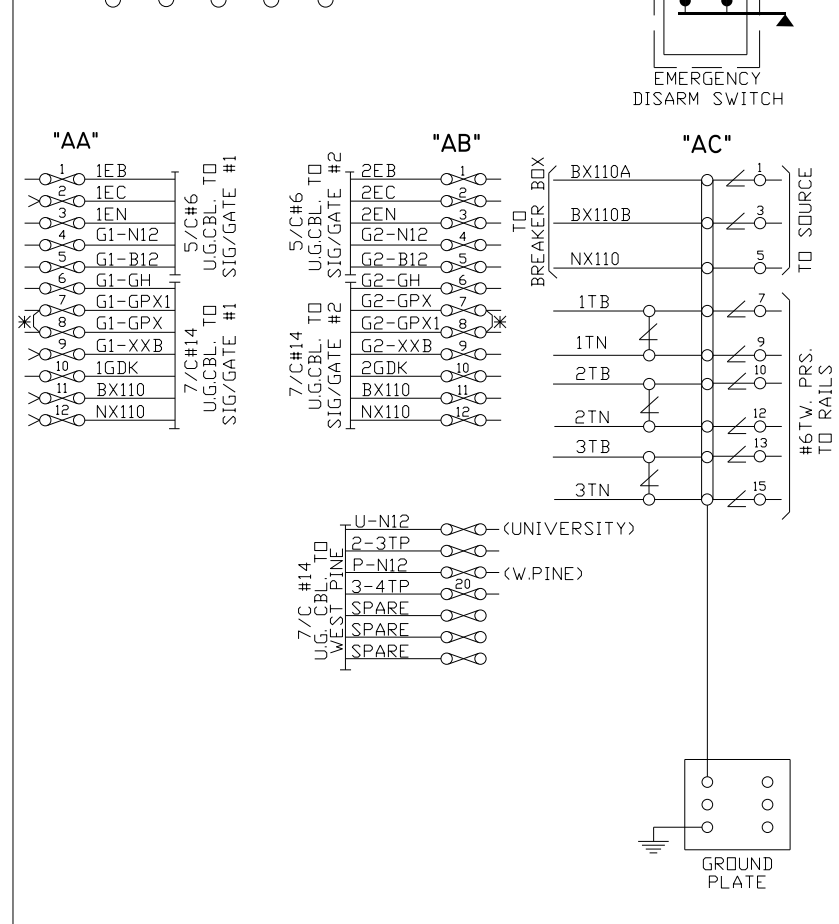
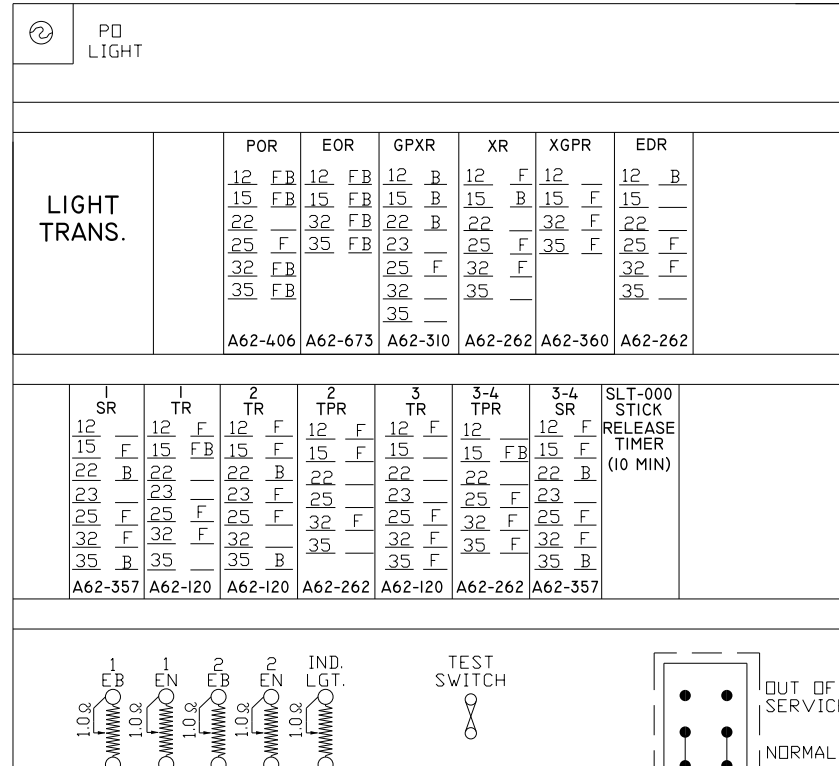
AS WIRED XX/XX/XXXX AS INSTALLED XX/XX/XXXX

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES	
	SCALE: NONE DATE: 05/07/2024	APPROVED BY:
UNIVERSITY AVENUE - DOT # 517 522E MP. 01.43 SELINGROVE, SNYDER COUNTY, PA		DRAWING NUMBER
CIRCUIT PLAN "F"		

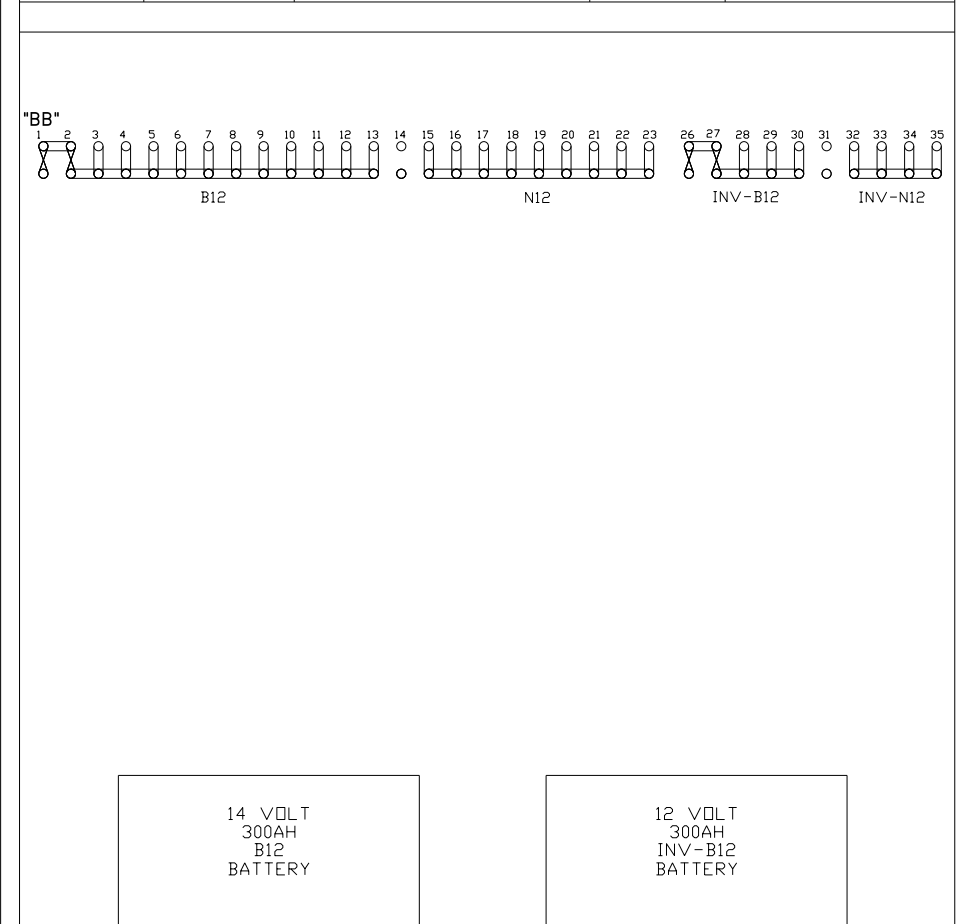
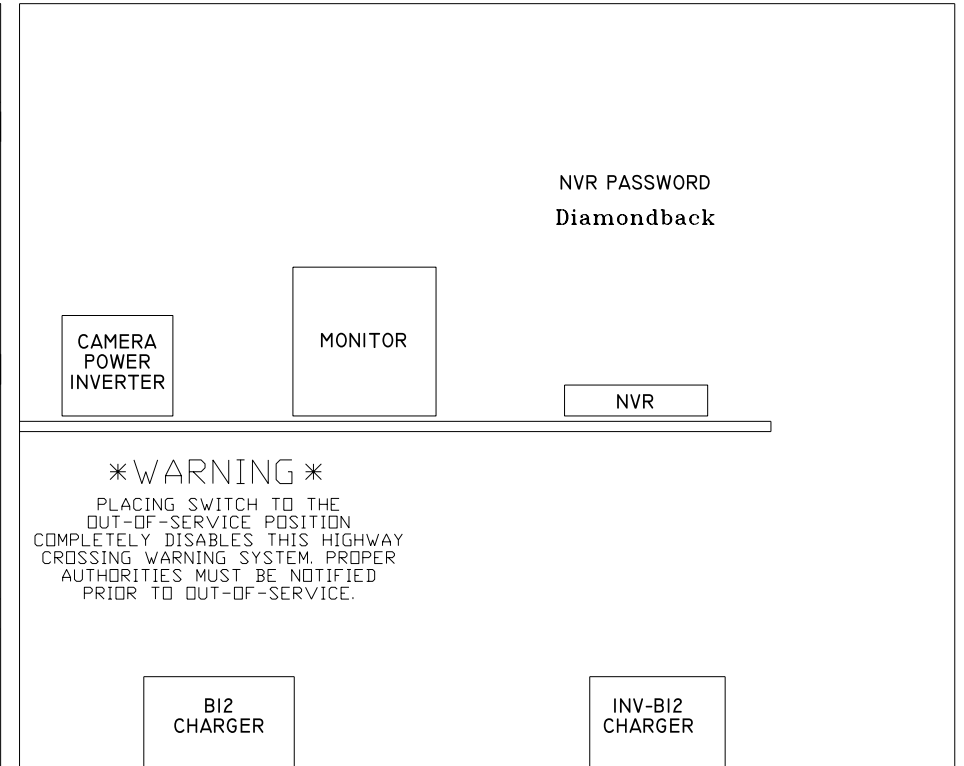
SIDE "C"



SIDE "A"



SIDE "B"



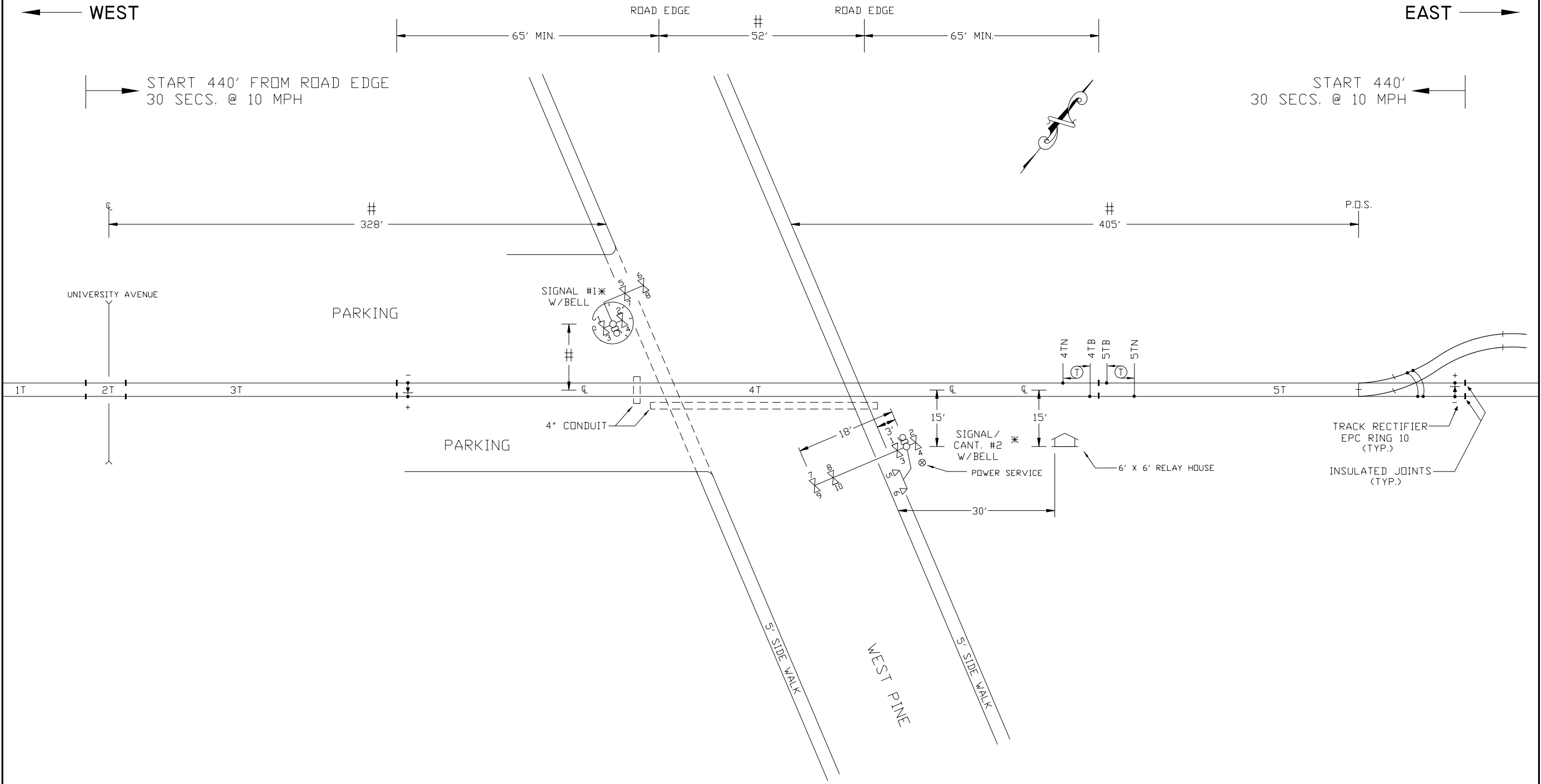
AS WIRED XX/XX/XXXX AS INSTALLED XX/XX/XXXX

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES	
	SCALE: NONE DATE: 05/07/2024	APPROVED BY: _____ REVISION:
	UNIVERSITY AVENUE - DOT # 517 522E MP. 01.43 SELINGROVE, SNYDER COUNTY, PA	
RELAY HOUSE LAYOUT		DRAWING NUMBER

* - TEMPORARY "GATE READY" JUMPER

WEST ←

→ EAST



- FIELD TO VERIFY ALL MEASUREMENTS
 * - GATE READY

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
- ⊙ = TRAFFIC SIGNAL BARRIER RING

CABLE RUN TABULATION

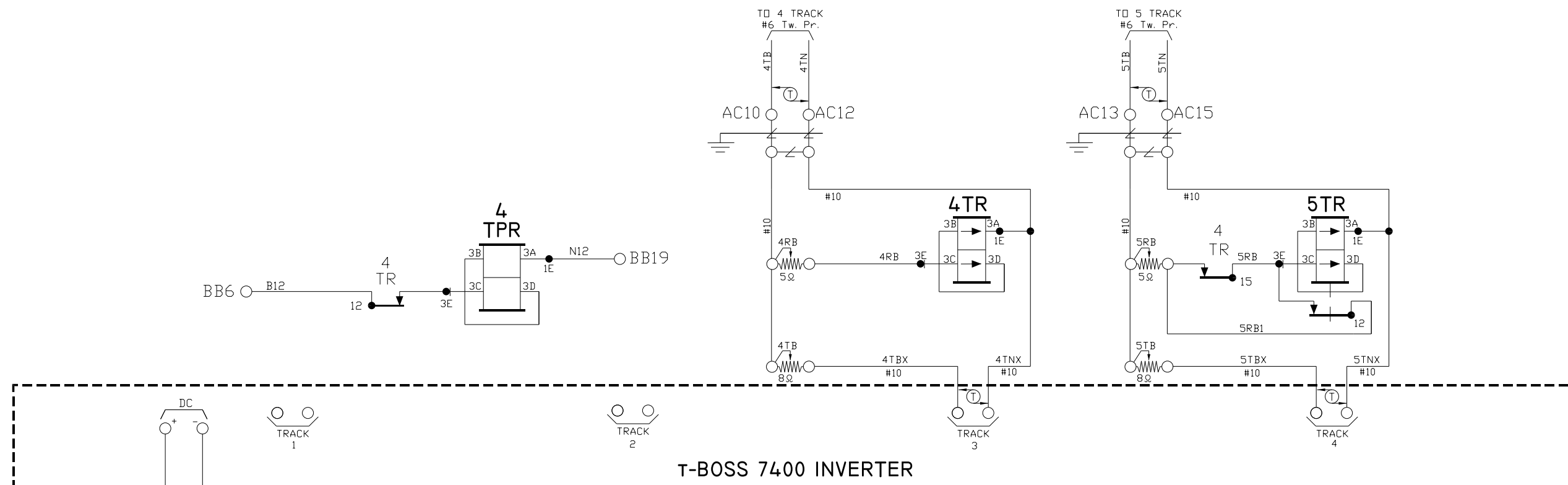
HOUSE TO SIGNAL #1 (GATE READY)	- 5/C #6 UG CABLE
HOUSE TO SIGNAL #2 (GATE READY)	- 7/C #14 UG CABLE
HOUSE TO AC SERVICE	- 5/C #6 UG CABLE
HOUSE TO 4TN & 4TB	- 7/C #14 UG CABLE
HOUSE TO 5TN & 5TB	- 3/C #9 UG CABLE
HOUSE TO UNIVERSITY	- 2/C #6 TW. PAIR UG CABLE
	- 2/C #6 TW. PAIR UG CABLE
	- 7/C #14 UG CABLE

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

DIAMONDBACK SIGNAL

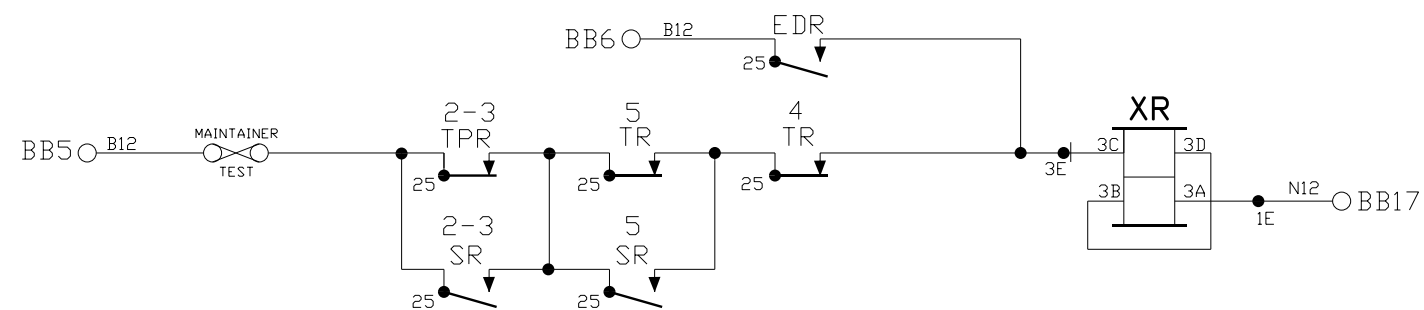
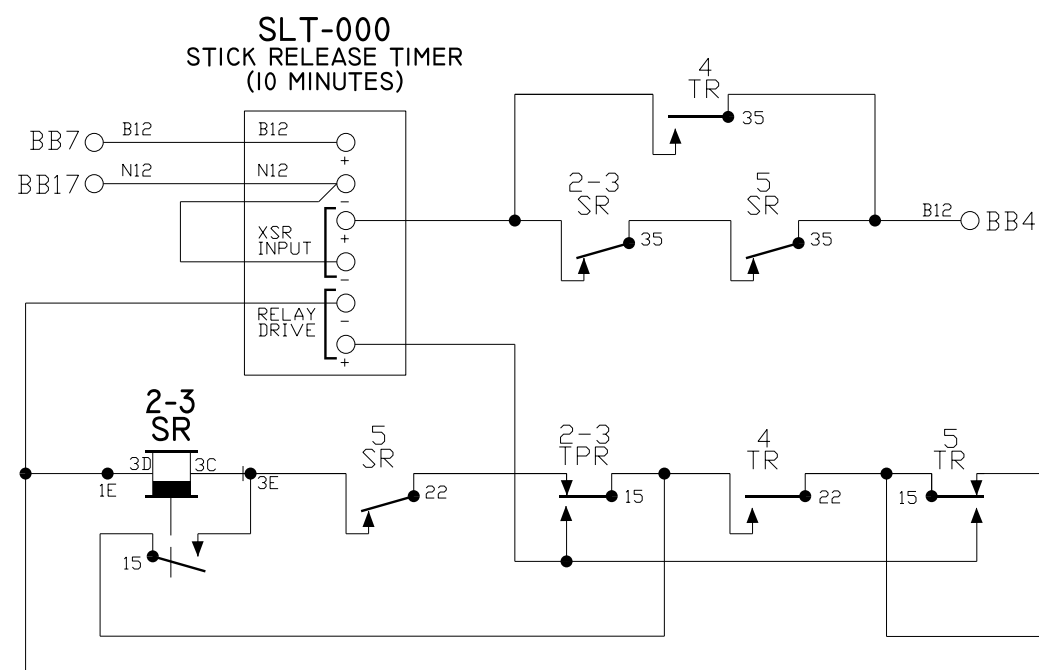
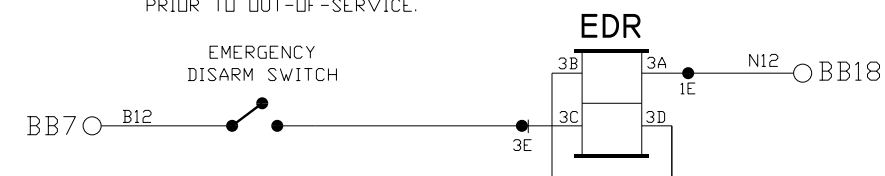
(410) 795-9601
 5965 EXCHANGE DRIVE
 SUITE "D"
 SYKESVILLE, MD
 21784

NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES	
SCALE: NONE	APPROVED BY:
DATE: 05/07/2024	DRAWN BY: NST
WEST PINE - DOT # 517 521X MP. 01.37 SELINGROVE, SNYDER COUNTY, PA	
TRACK & CABLE PLAN	DRAWING NUMBER



WARNING

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

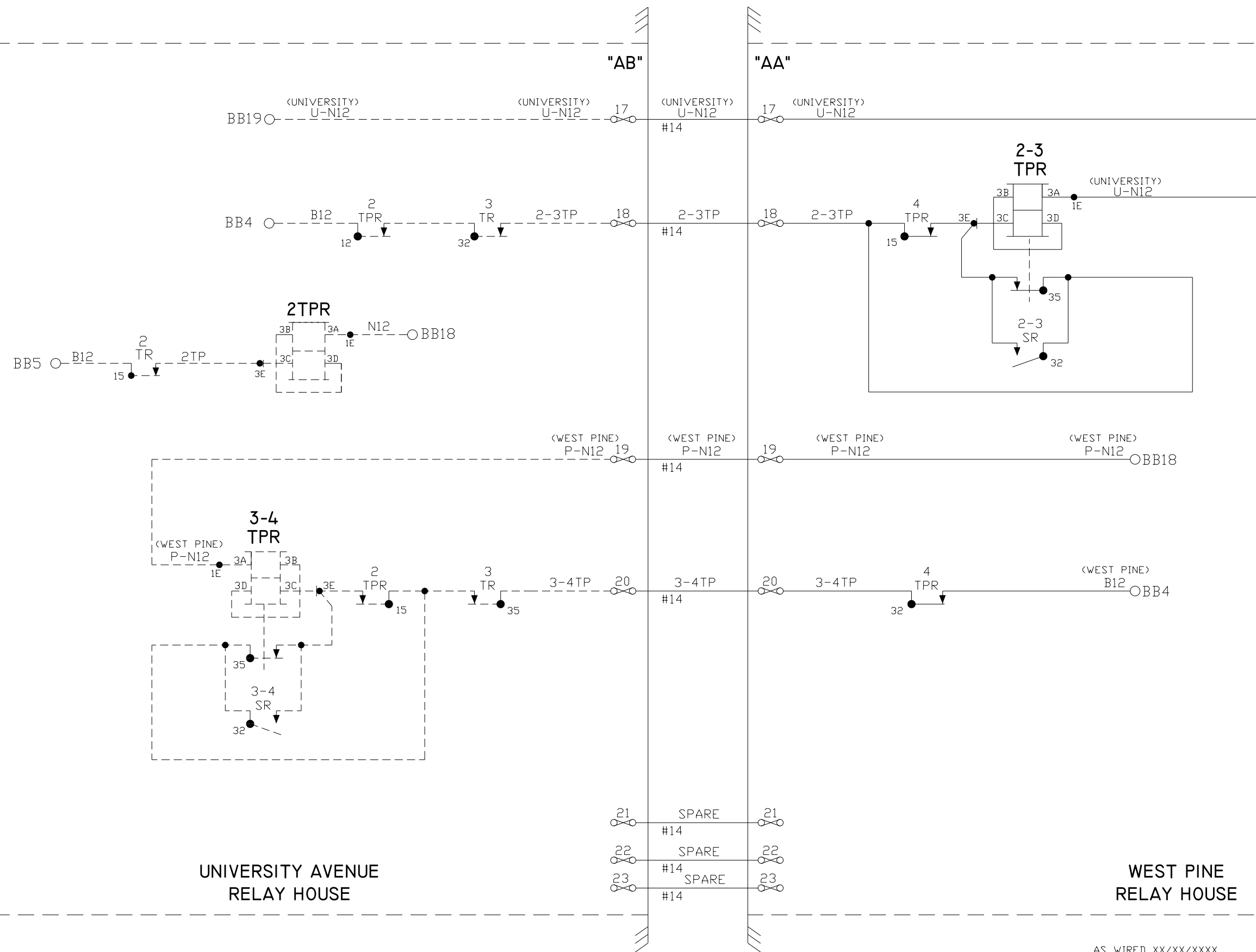


NOTES:

1. ALL WIRE THIS SHEET IS #14 AWG FLEX UNLESS OTHERWISE NOTED.
2. (T) DENOTES TWISTED PAIR.

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

DIAMONDBACK SIGNAL	NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES	
	SCALE: NONE	APPROVED BY:
(410) 795-9601	DATE: 05/07/2024	DRAWN BY: NST
5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	WEST PINE - DOT # 517 521X MP. 01.37 SELINGROVE, SNYDER COUNTY, PA	
	CIRCUIT PLAN "A"	DRAWING NUMBER

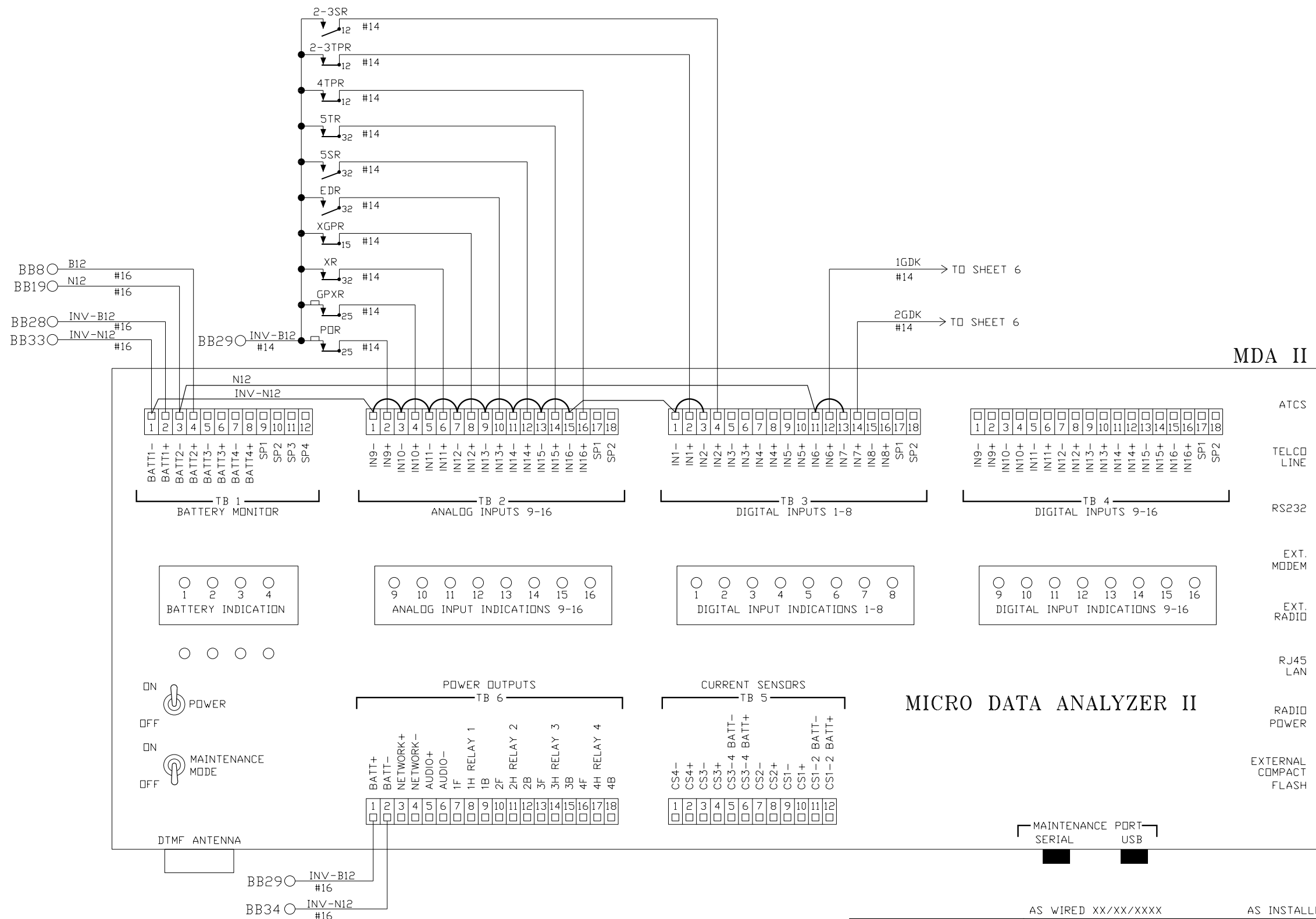


UNIVERSITY AVENUE
RELAY HOUSE

WEST PINE
RELAY HOUSE

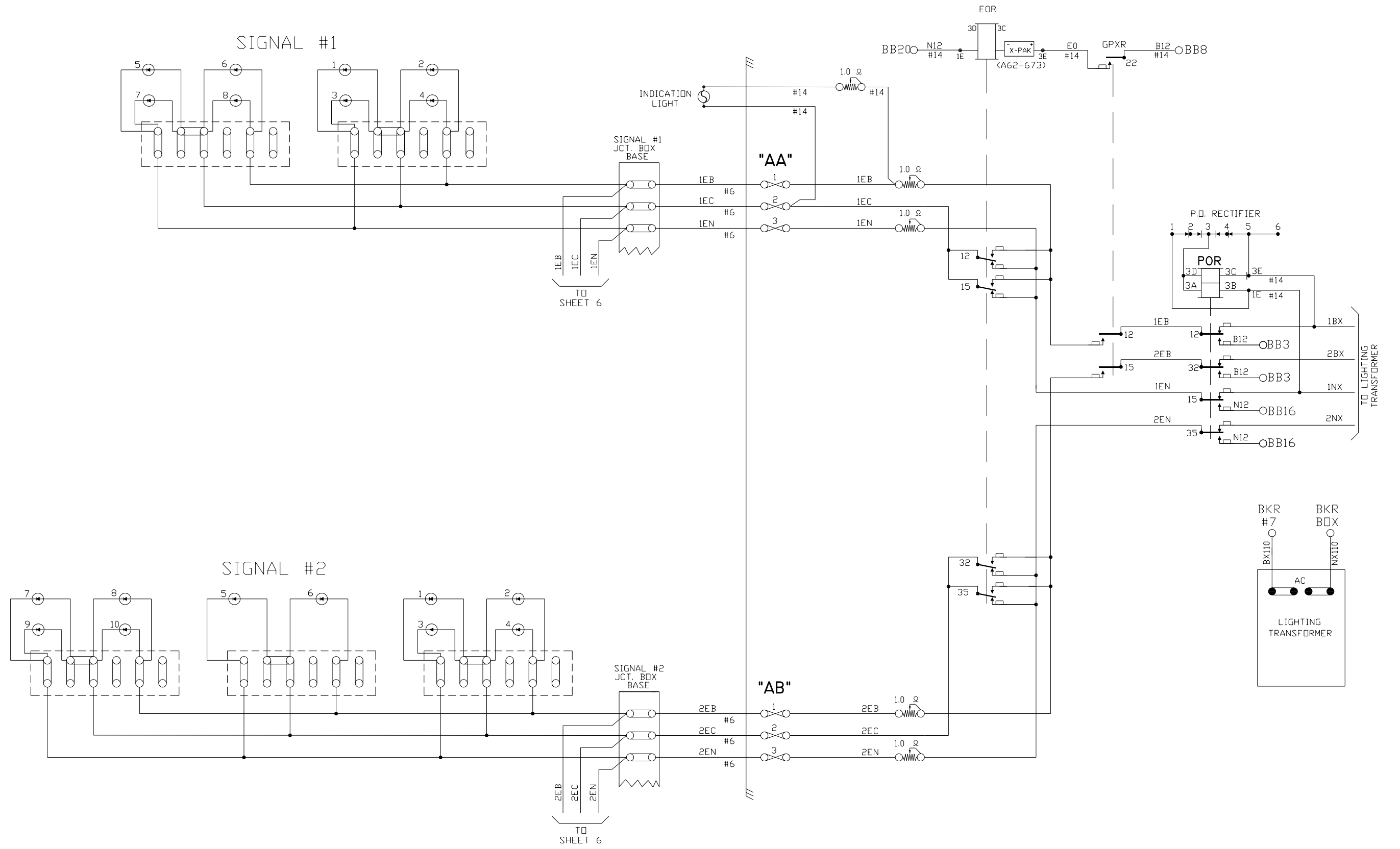
- NOTES:
1. ALL WIRE THIS SHEET IS #14 AWG FLEX UNLESS OTHERWISE NOTED.
 2. \overline{T} DENOTES TWISTED PAIR.

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED XX/XX/XXXX		AS INSTALLED XX/XX/XXXX	
	NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:	DRAWN BY: NST	
	DATE: 05/07/2024	REVISID:	WEST PINE - DOT # 517 521X MP. 01.37 SELINGROVE, SNYDER COUNTY, PA	
CIRCUIT PLAN "B"			DRAWING NUMBER	



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

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED XX/XX/XXXX		AS INSTALLED XX/XX/XXXX	
	NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:	DRAWN BY: NST	
	DATE: 05/07/2024	REVISER:	REVISION:	
WEST PINE - DOT # 517 521X MP. 01.37 SELINGROVE, SNYDER COUNTY, PA				
CIRCUIT PLAN "C"			DRAWING NUMBER	



- NOTES:
1. ALL WIRE THIS SHEET IS #10 AWG. FLEX UNLESS OTHERWISE NOTED.
 2. FLASHER RELAY W/X-PAK (A62-673)

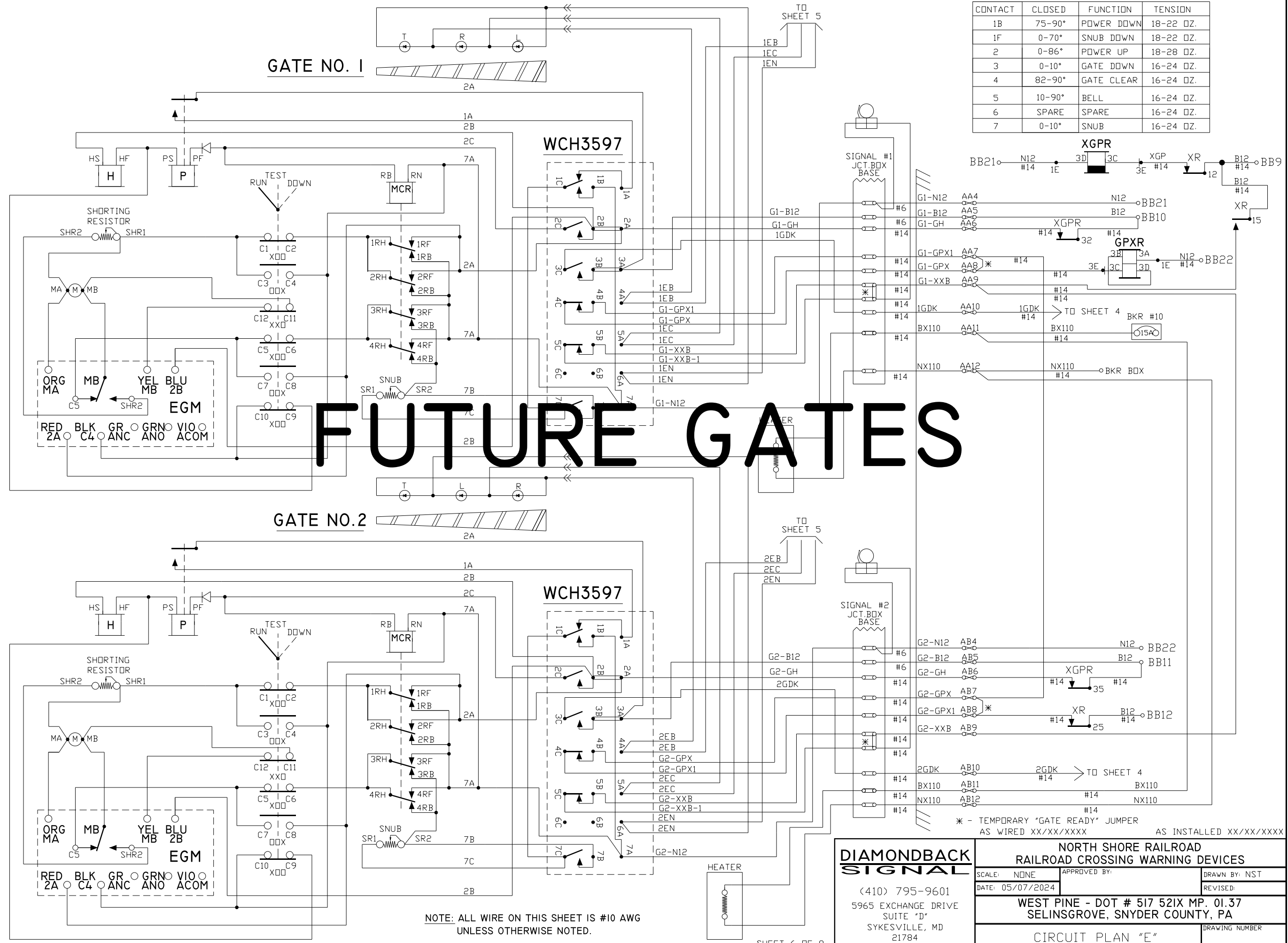
DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED XX/XX/XXXX		AS INSTALLED XX/XX/XXXX	
	NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:	DRAWN BY: NST	
	DATE: 05/07/2024	REVISER:	REVISIONS:	
WEST PINE - DOT # 517 521X MP. 01.37 SELINGROVE, SNYDER COUNTY, PA			DRAWING NUMBER	
CIRCUIT PLAN "D"				

GATE NO. 1

GATE NO. 2

CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.

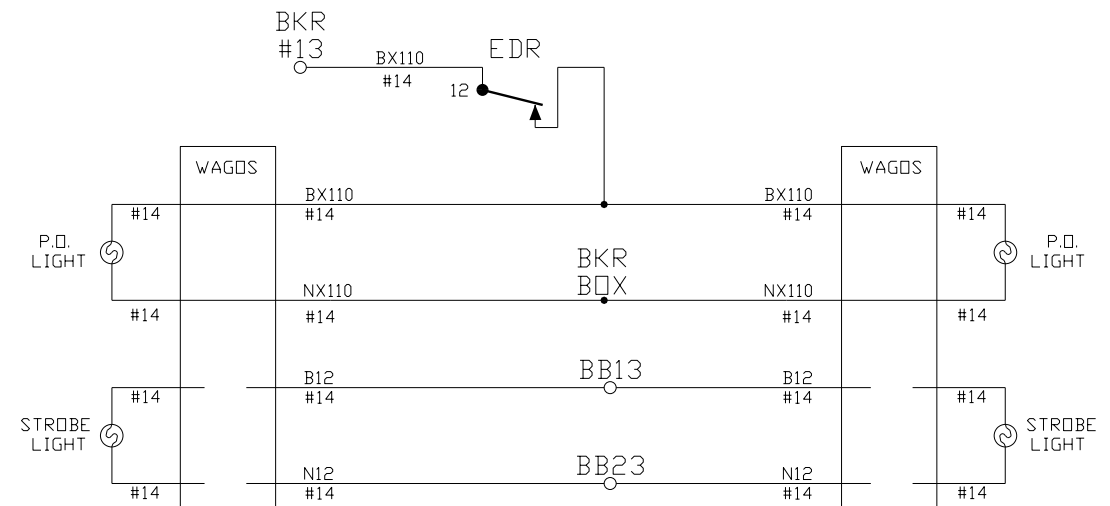
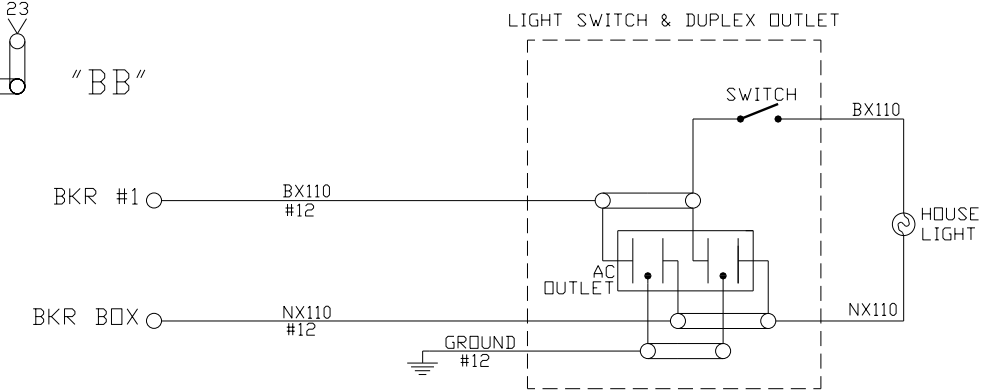
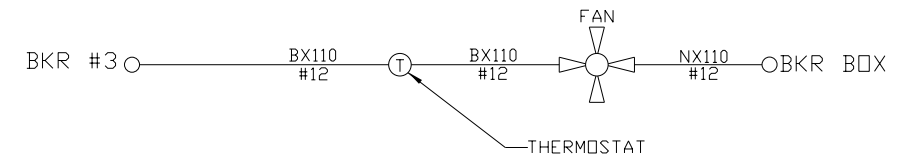
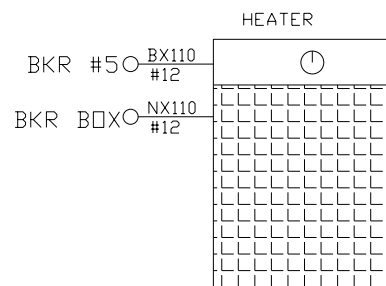
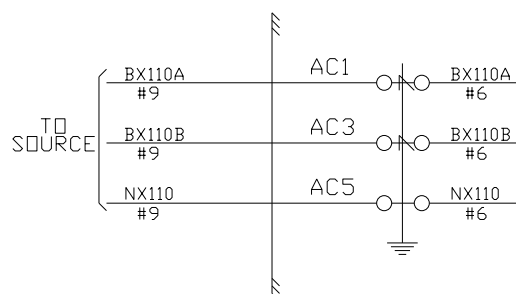
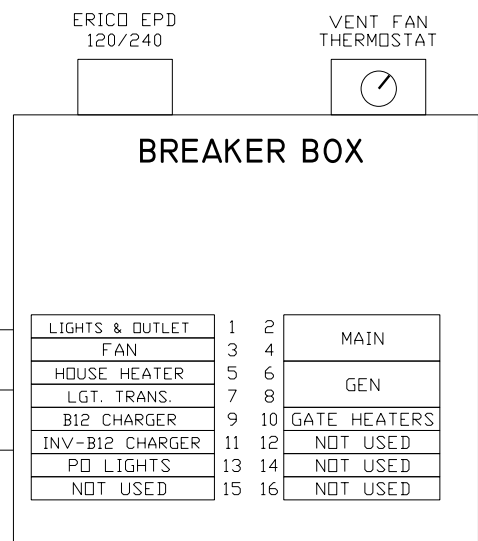
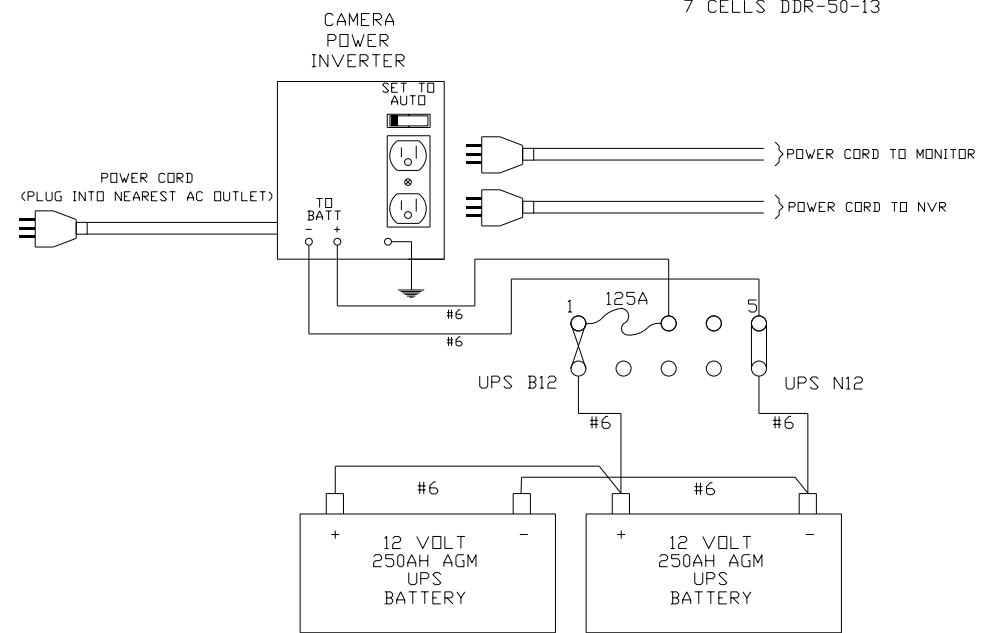
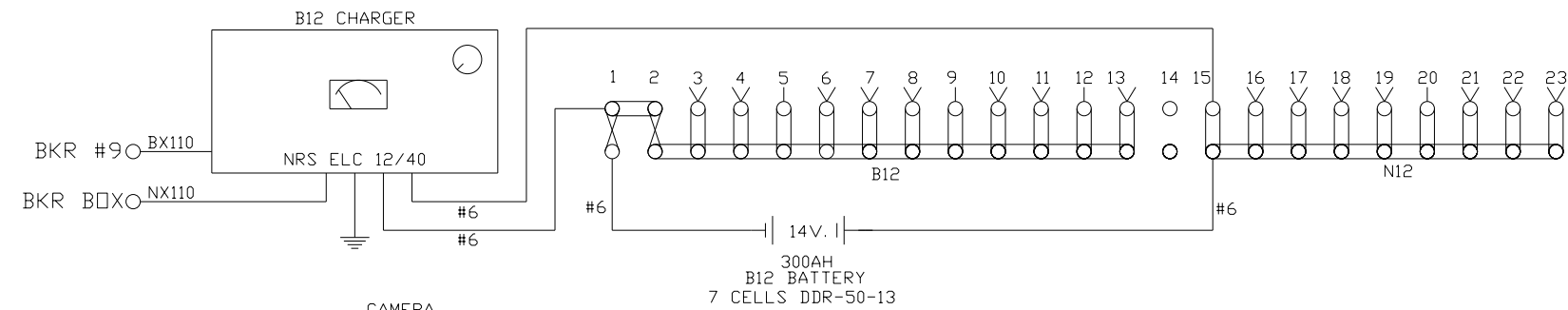
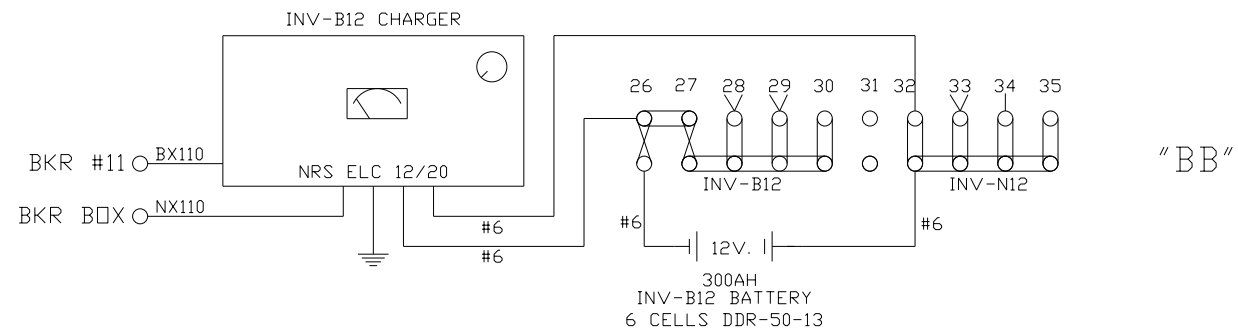
FUTURE GATES



NOTE: ALL WIRE ON THIS SHEET IS #10 AWG UNLESS OTHERWISE NOTED.

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

NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES		
SCALE: NONE	APPROVED BY:	DRAWN BY: NST
DATE: 05/07/2024		REVISED:
WEST PINE - DOT # 517 521X MP. 01.37 SELINGROVE, SNYDER COUNTY, PA		
CIRCUIT PLAN "E"		DRAWING NUMBER



NOTE:
ALL WIRE THIS SHEET IS #10 AWG FLEX
UNLESS OTHERWISE NOTED.

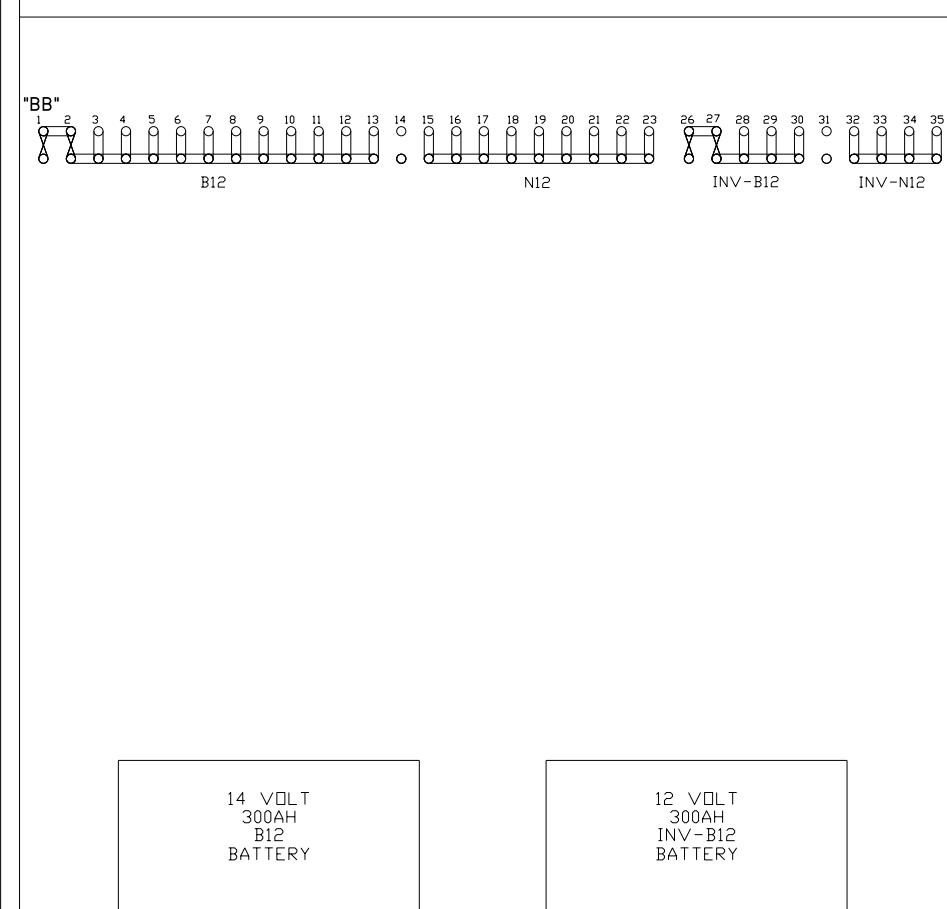
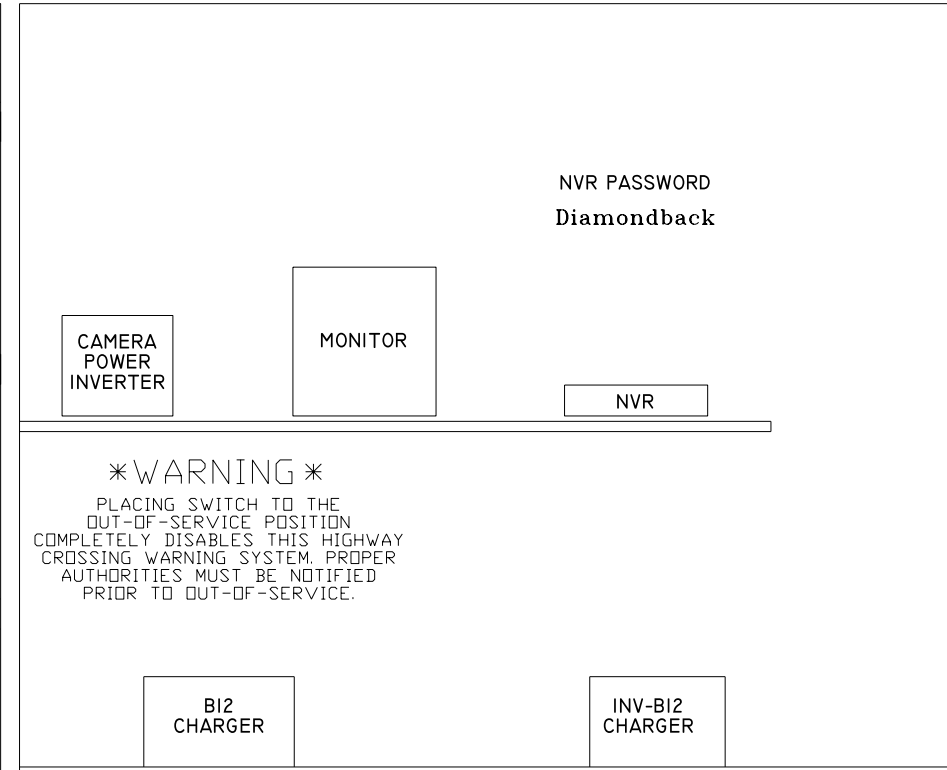
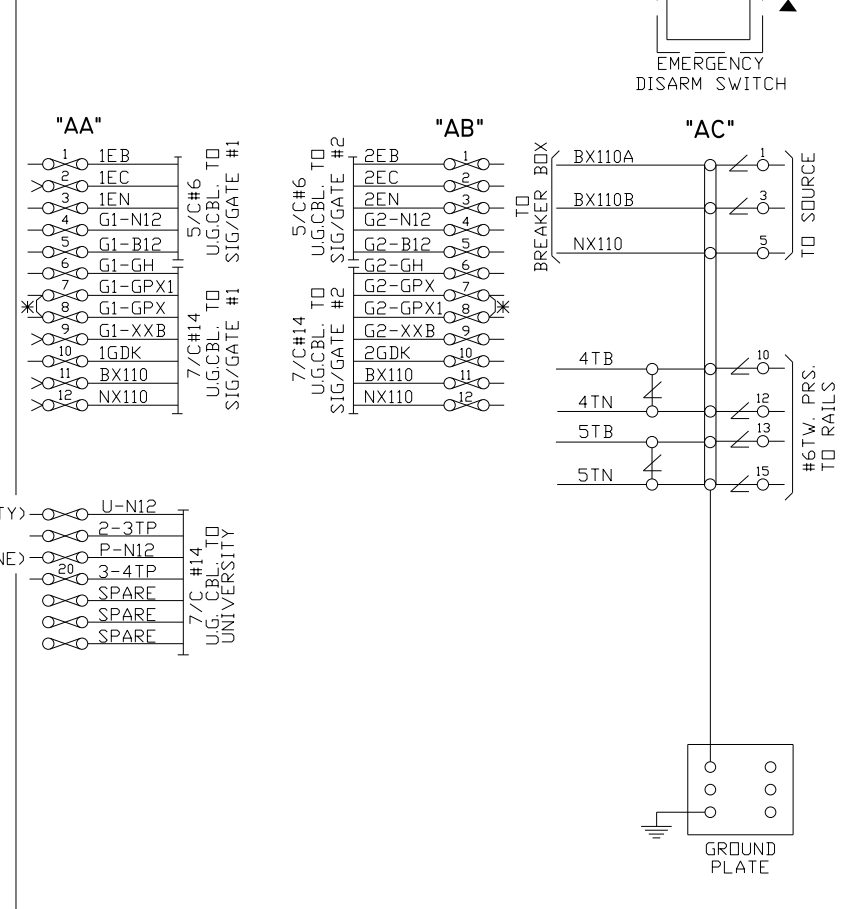
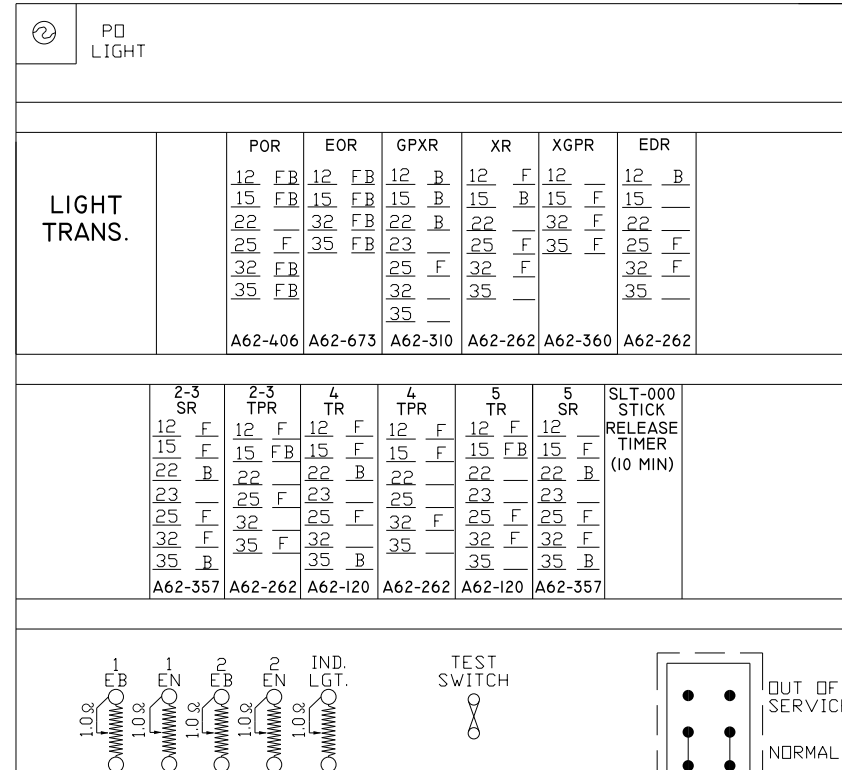
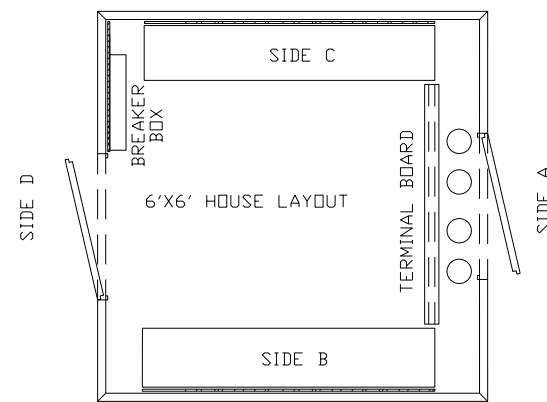
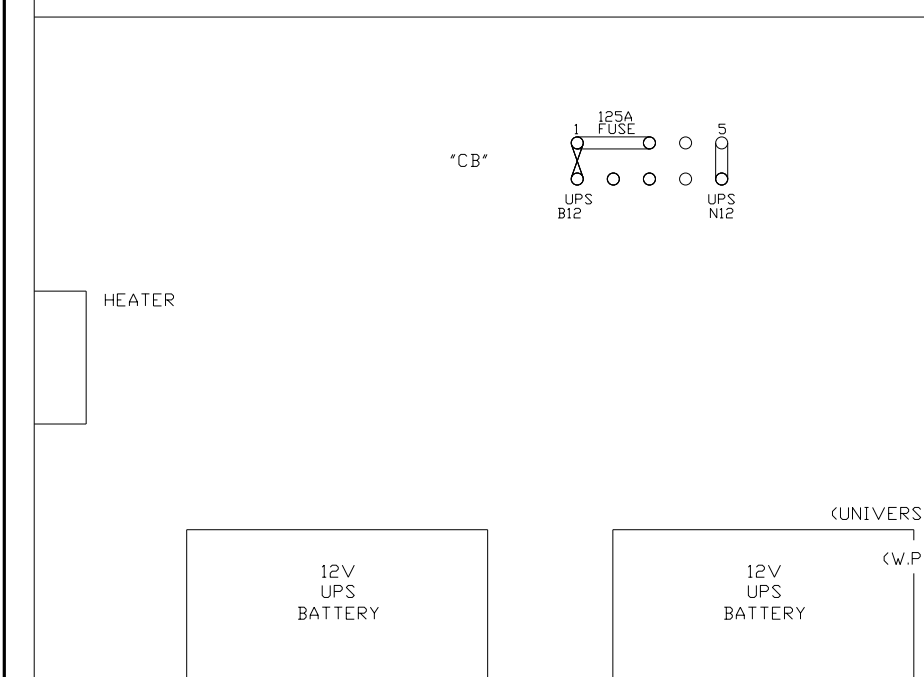
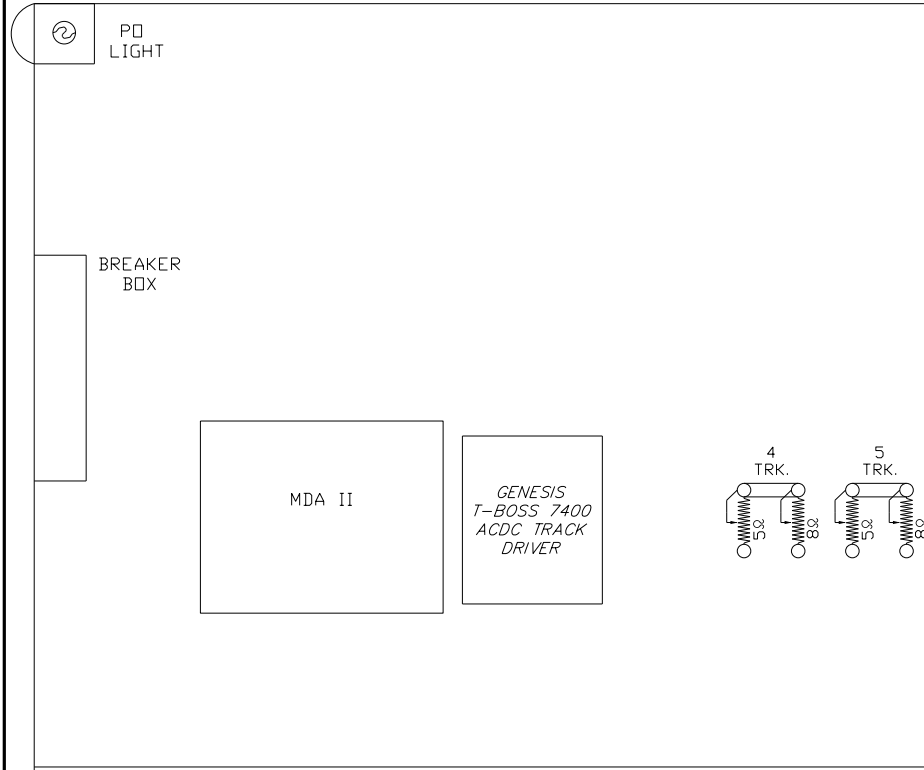
AS WIRED XX/XX/XXXX AS INSTALLED XX/XX/XXXX

DIAMONDBACK SIGNAL	NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES	
	SCALE: NONE	APPROVED BY:
(410) 795-9601	DATE: 05/07/2024	DRAWN BY: NST
5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	WEST PINE - DOT # 517 521X MP. 01.37 SELINGROVE, SNYDER COUNTY, PA	
	CIRCUIT PLAN "F"	DRAWING NUMBER

SIDE "C"

SIDE "A"

SIDE "B"



* - TEMPORARY "GATE READY" JUMPER

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

DIAMONDBACK SIGNAL

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

NORTH SHORE RAILROAD RAILROAD CROSSING WARNING DEVICES

SCALE: NONE APPROVED BY: DRAWN BY: NST
DATE: 05/07/2024 REVISED:

WEST PINE - DOT # 517 521X MP. 01.37
SELINGROVE, SNYDER COUNTY, PA

RELAY HOUSE LAYOUT DRAWING NUMBER