



February 16, 2023

RCVD PUC SEC BUR
FEB 23 2023 AM 10:51

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

In re: A-2022-3036924, application of the Commonwealth of Pennsylvania, Department of Transportation, for approval to alter **(15)** public at-grade crossing by the installation of new train activated automatic lights and circuitry and new crossing surfaces where various where the **(15)** public at-grade crossings crosses the single track of the SEDA COG Joint Rail Authority (JRA) operated by the Shamokin Valley Railroad in Coal, Ralpho, Shamokin and Upper Augusta Townships, Snyderstown Borough and the Cities of Sunbury and the city of Shamokin, Northumberland County; ***All in accordance with the Federal Grade Crossing Program;*** and the allocation of costs incident thereto.

<u>Highway</u>	<u>DOT No.</u>	<u>Municipality</u>
1. South Fourth Street	591 735M	Sunbury
2. South Awl Street	591 734F	Sunbury
3. South Tenth Street	591 733Y	Sunbury
4. Lenker Street	591 732S	Sunbury
5. Hass Avenue	591 731K	Sunbury
6. Mill Street	591 726N	Sunbury
7. Market Street	591 722L	Snyderstown
8. Short Street	591 820X	Snyderstown
9. Shamrock Road	534 828D	Paxinos
10. SR 487	534 829K	Paxinos
11. Reading Turnpike	534 831L	Sunbury
12. Overlook Boulevard	534 834G	Paxinos
13. John Estate Road	534 836V	Shamokin
14. Bottle Drive	908 949M	Paxinos

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

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:

Mr. Mark Chappell, P.E., Chief
PA Department of Transportation
Bureau of Design
Utilities and Right-of-Way Section
P.O. Box 3362
Harrisburg, PA 17105-3362

Ms. Gina D'Alfonso, Assistant Counsel
PA Department of Transportation
Office of Chief Counsel
P.O. Box 3265
Harrisburg, PA 17105-3265

Mr. George Dicarlant, PE
Pennsylvania Public Utility Commission
PO Box 3265
Harrisburg, PA 17105-3265

Mr. Steve Betts
PA Department of Transportation
Engineering District 3-0 Utilities
715 Jordan Avenue
Montoursville, PA 17754

Mr. Kyle Postupack,
Property Manager
SEDA COG Joint Rail Authority
201 Furnace Road
Lewisburg, PA 17837

Mr. George Fury, Property Representative
Shamokin Valley Railroad
356 Priestly Avenue
Northumberland, PA 17857

Mr. Jim Boyer, Signal Manager
Shamokin Valley Railroad
356 Priestly Avenue
Northumberland, PA 17857

Mr. Zach Mahaffey, Track Superintendent
Shamokin Valley Railroad
356 Priestly Avenue
Northumberland, PA 17857

Nathan Savige, Chief Clerk
Northumberland County Commissioners
399 Stadium Drive
Sunbury, PA 17801

Deb Olson, Township Secretary
Ralpho Township
206 South Market Street
Elysburg, PA 17824

Robert Slaby, Jr., Manager
Coal Township
805 West Lynn Street
Coal Township, PA 17866

Robert Slaby, City Clerk
City of Shamokin
47 East Lincoln Street
Shamokin, PA 17872

Jolinn Barner, City Clerk
City of Sunbury
225 Market Street
Sunbury, PA 17801

Darlene Kern, Secretary
Upper Augusta Township
2087 Snyderstown Road
Sunbury, PA 17801

Amy Wolf, Secretary
Snyderstown Borough
36 South Main Street
Sunbury, PA 17801

Colin Klebon
UGI Utilities Inc.
1 PEI Center
Wilkes Barre, PA 18711

Robert Jaworski, Engineer
Verizon of Pennsylvania
11 Ridge Road
Bloomsburg, PA 17815

John Klinger, Engineer
AQUA Pennsylvania Inc.
204 East Sunbury Street
Shamokin, PA 17872

RCVD PUC SEC BUR
FEB 23 2023 AM 10:5

Charlotte Krupa, PennDOT Liasion
PPL Electric Utility Company
Two North Ninth Street
GENN3
Allentown, PA 18101

Don Phillips, Network Specialist
Service Electric Cable
3662 Point Township Drive
Northumberland, PA 17857

Betsy Medon
Ralpho Township Municipal Authority
206 S. Market Street, Suite 2
Elysburg, PA 17824

Scott Debo
Sunbury Municipal Authority
462 South 4th Street
Sunbury, PA 17801

Paul Petrovich, Manager
Shamokin Coal Township Joint Sewer Authority
114 Bridge Street
Shamokin, PA 17872

John Bruce, OSP Manager
Spread Networks
800 Woodlands Parkway, Suite 102
Ridgeland, MS 39157

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

Dated this 16th day of February 2023.


Kemp Buettner
(410) 795-9601



DIAMONDBACK SIGNAL
5965 Exchange Drive
Suite D
Sykesville, MD 21784

PITNEY BOWES

\$10.75

US POSTAGE[®]
PRIORITY MAIL

2 lbs 4 ozs Zone 2
026W0004897289

2000304247

ZIP 21784

FEB 21 2023



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

WEST

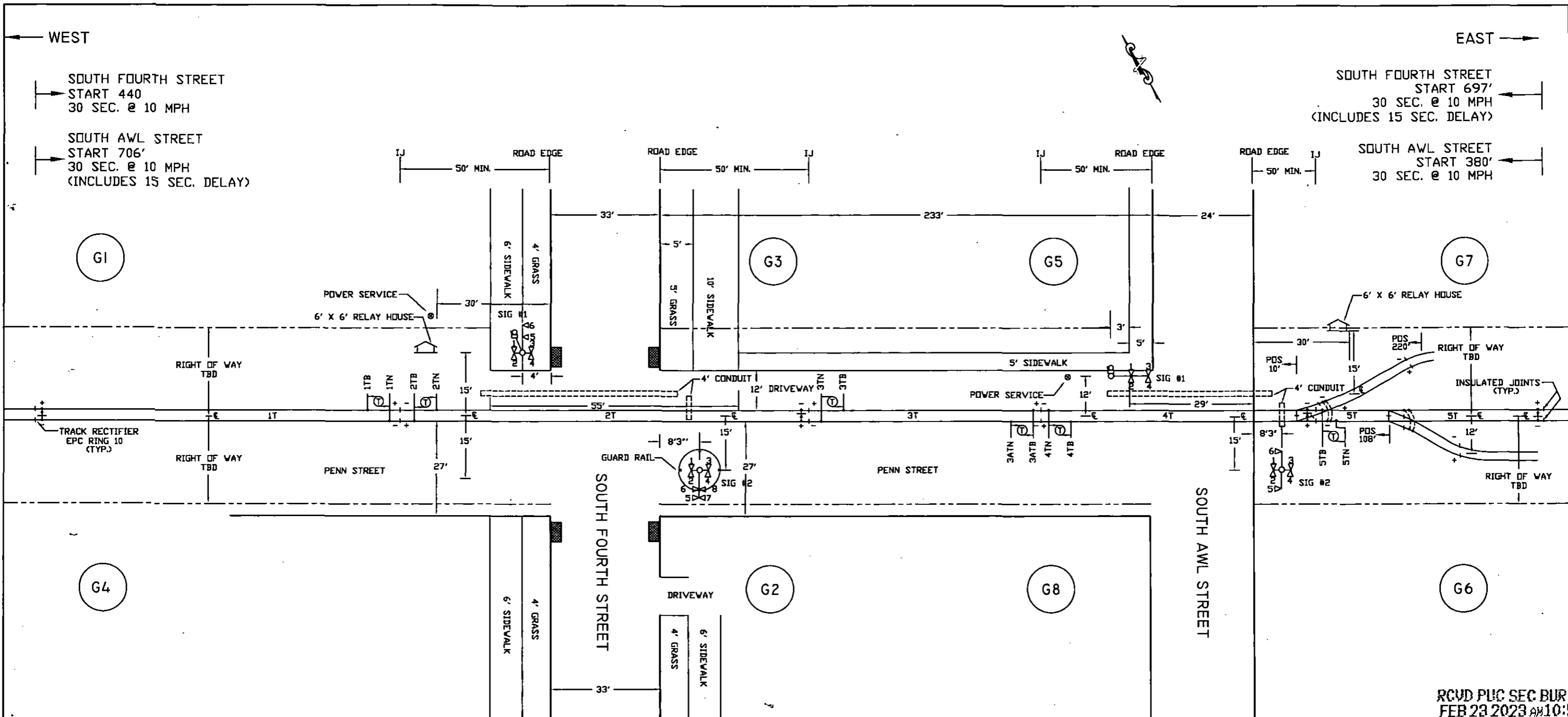
EAST

SOUTH FOURTH STREET
START 440
30 SEC. @ 10 MPH

SOUTH FOURTH STREET
START 697'
30 SEC. @ 10 MPH
(INCLUDES 15 SEC. DELAY)

SOUTH AWL STREET
START 706'
30 SEC. @ 10 MPH
(INCLUDES 15 SEC. DELAY)

SOUTH AWL STREET
START 380'
30 SEC. @ 10 MPH



TRACK RECTIFIER
EPC RING 10
(TYP.)

RIGHT OF WAY
TBD

RIGHT OF WAY
TBD

PENN STREET

SOUTH FOURTH STREET

PENN STREET

SOUTH AWL STREET

RIGHT OF WAY
TBD

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. FLASHLIGHT SIGNALS & GATE LIGHTS TO BE LIGHT EMITTING DIODE ASSEMBLIES, (LED).
4. BEWARE OF OVERHEAD WIRES WHEN SITING SIGNAL.
5. (T) DENOTES TWIST PAIR.

SOUTH FOURTH STREET

CABLE RUN TABULATION

- HOUSE TO SIGNAL #1 - 5/C #6 UG CABLE
- 7/C #14 UG CABLE
- HOUSE TO SIGNAL #2 - 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 TWISTED PAIR
- HOUSE TO 2TN & 2TB - 2/C #6 TWISTED PAIR
- HOUSE TO 3TN & 3TB - 2/C #6 TWISTED PAIR

SOUTH AWL STREET

CABLE RUN TABULATION

- HOUSE TO SIGNAL #1 - 5/C #6 UG CABLE
- 7/C #14 UG CABLE
- HOUSE TO SIGNAL #2 - 5/C #6 UG CABLE
- 7/C #14 UG CABLE
- HOUSE TO AC SERVICE - 3/C #9 UG CABLE
- HOUSE TO 3ATN & 3ATB - 2/C #6 TWISTED PAIR
- HOUSE TO 4TN & 4TB - 2/C #6 TWISTED PAIR
- HOUSE TO 5TN & 5TB - 2/C #6 TWISTED PAIR

RCVD PLC SEC BUR
FEB 23 2023 AM 10:52

**DIAMONDBACK
SIGNAL**

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

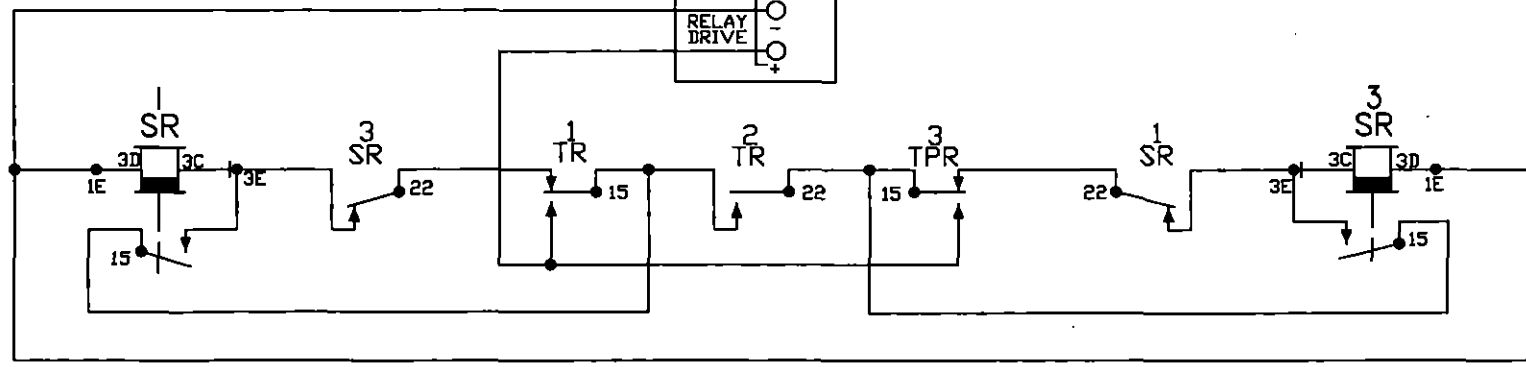
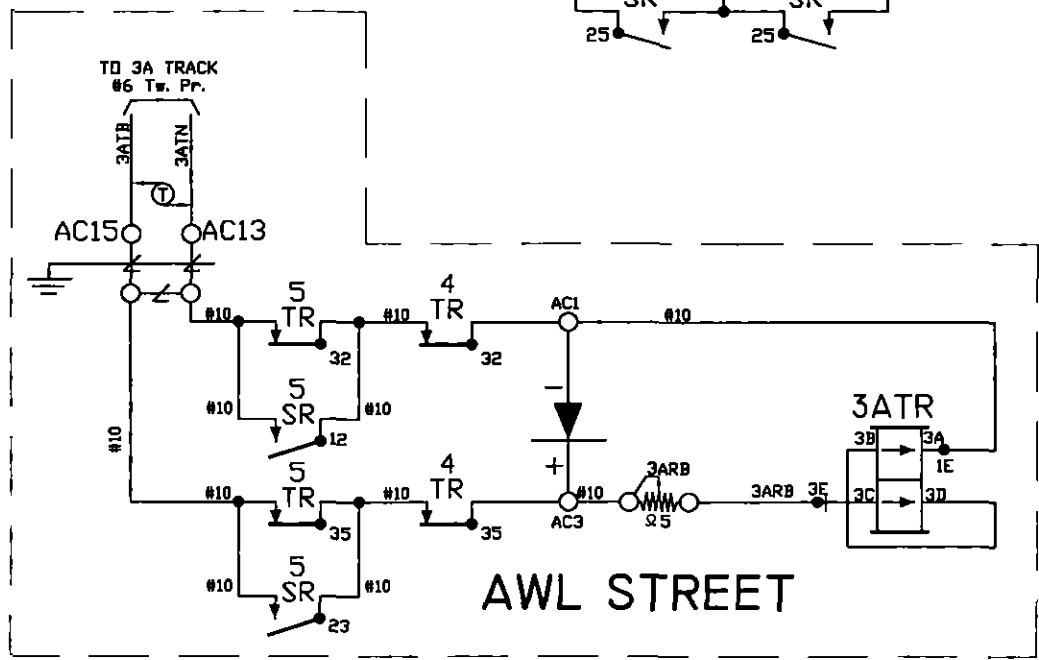
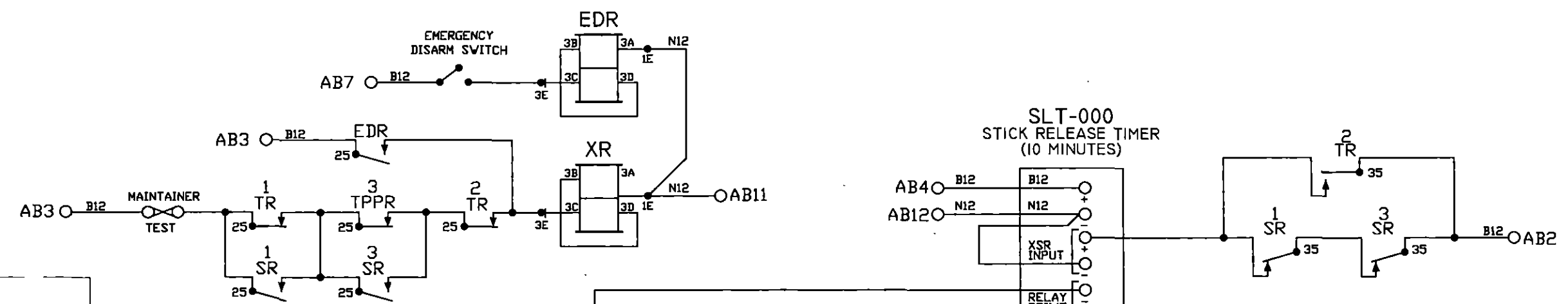
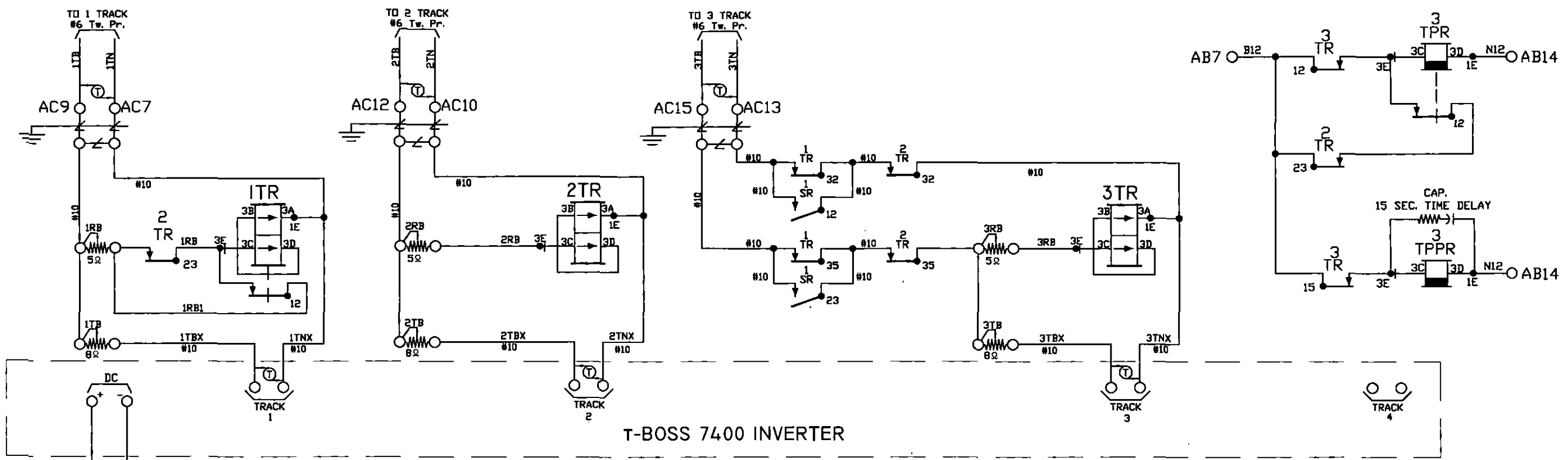
AS WIRED AS INSTALLED

SHAMOKIN VALLEY RAILROAD
RAILROAD CROSSING WARNING DEVICES

SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
DATE: 02/21/2022		REVISED:

SOUTH FOURTH STREET
DOT # 591 735M - M.P. 0.49
SUNBURY, NORTHUMBERLAND COUNTY, PA

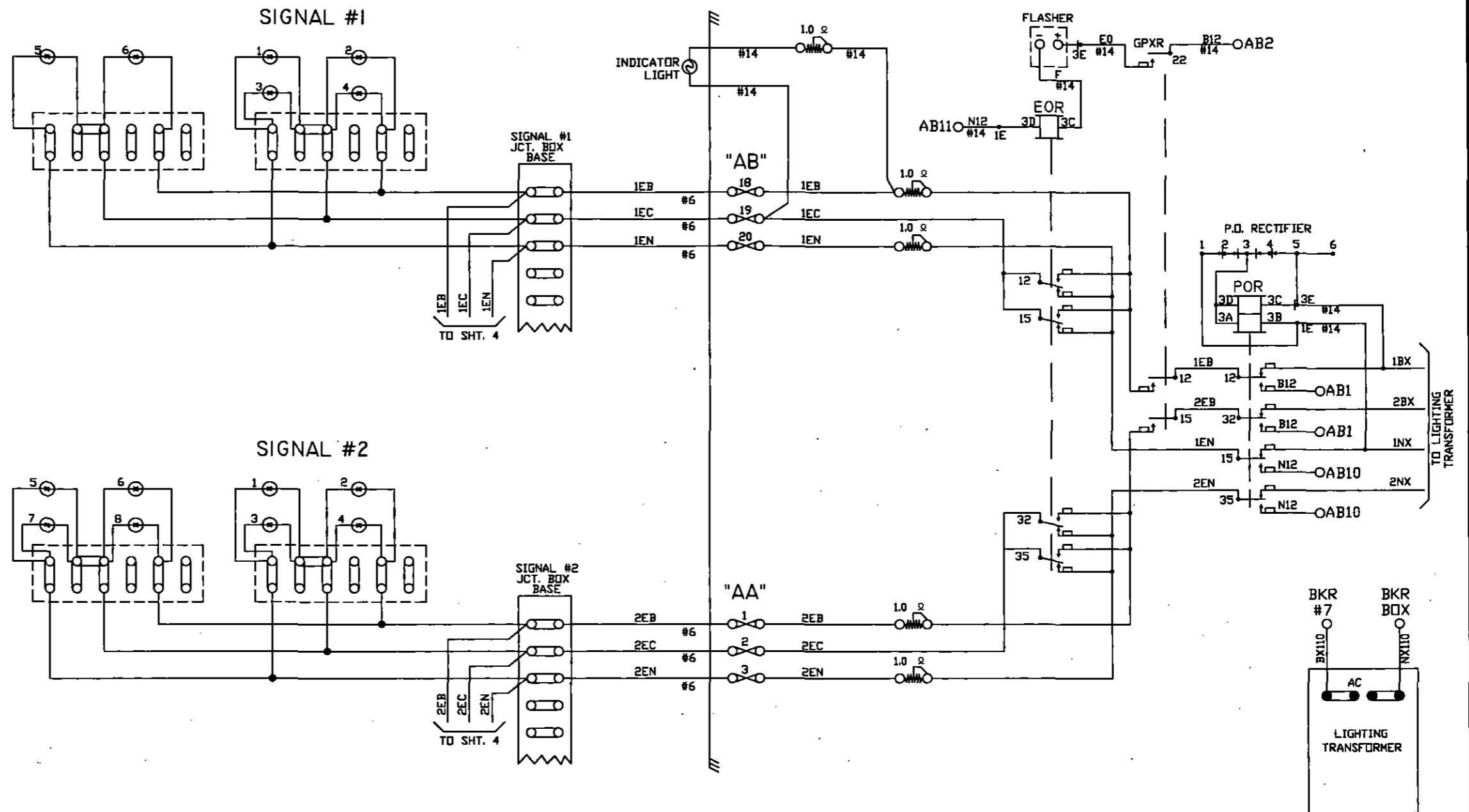
TRACK & CABLE PLAN
DRAWING NUMBER 0.49



- 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		AS INSTALLED	
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 02/21/2022		REVISED:	
SOUTH FOURTH STREET DOT # 591 735M - M.P. 0.49 SUNBURY, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN 'A'			DRAWING NUMBER 0.49

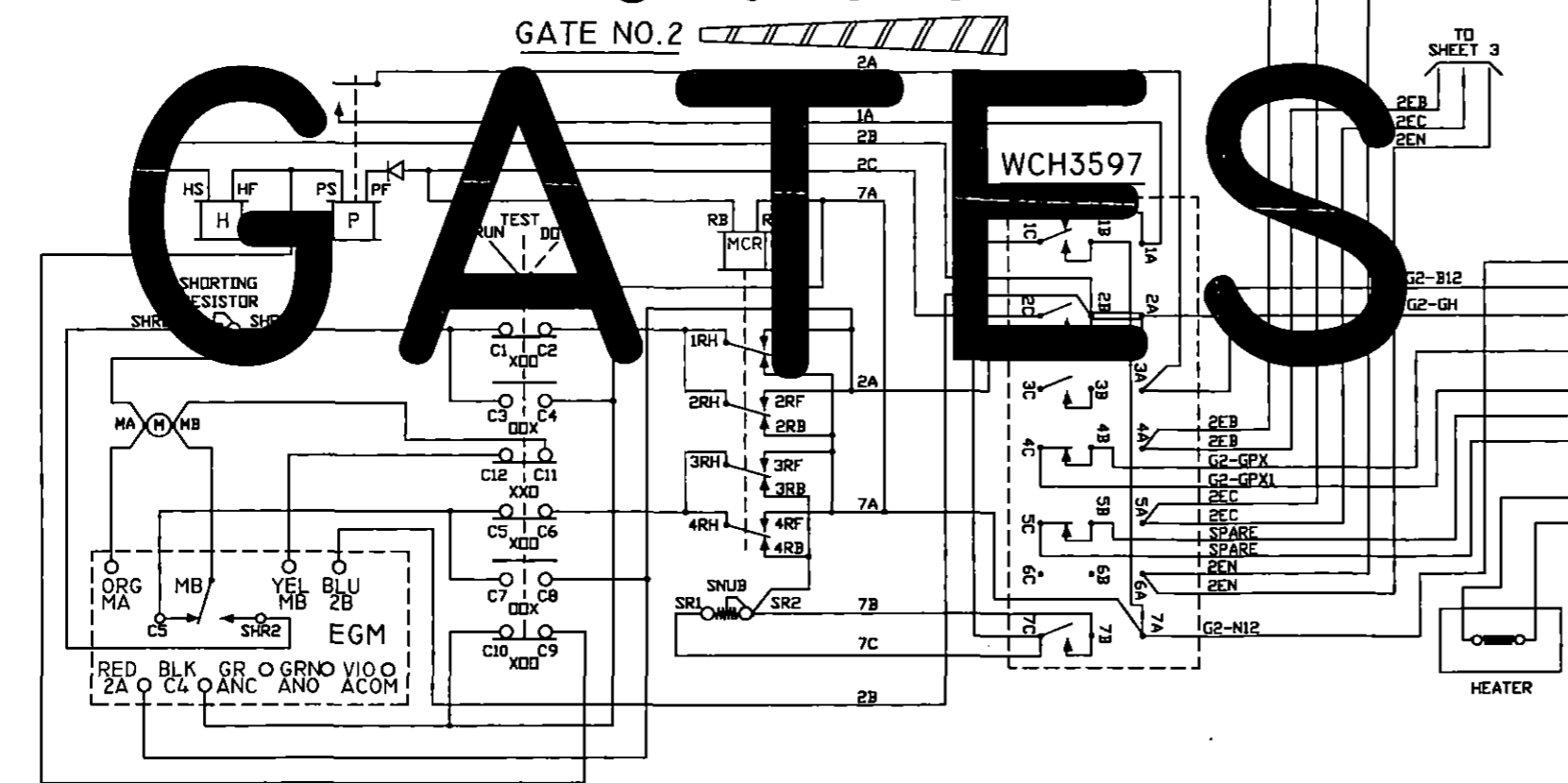
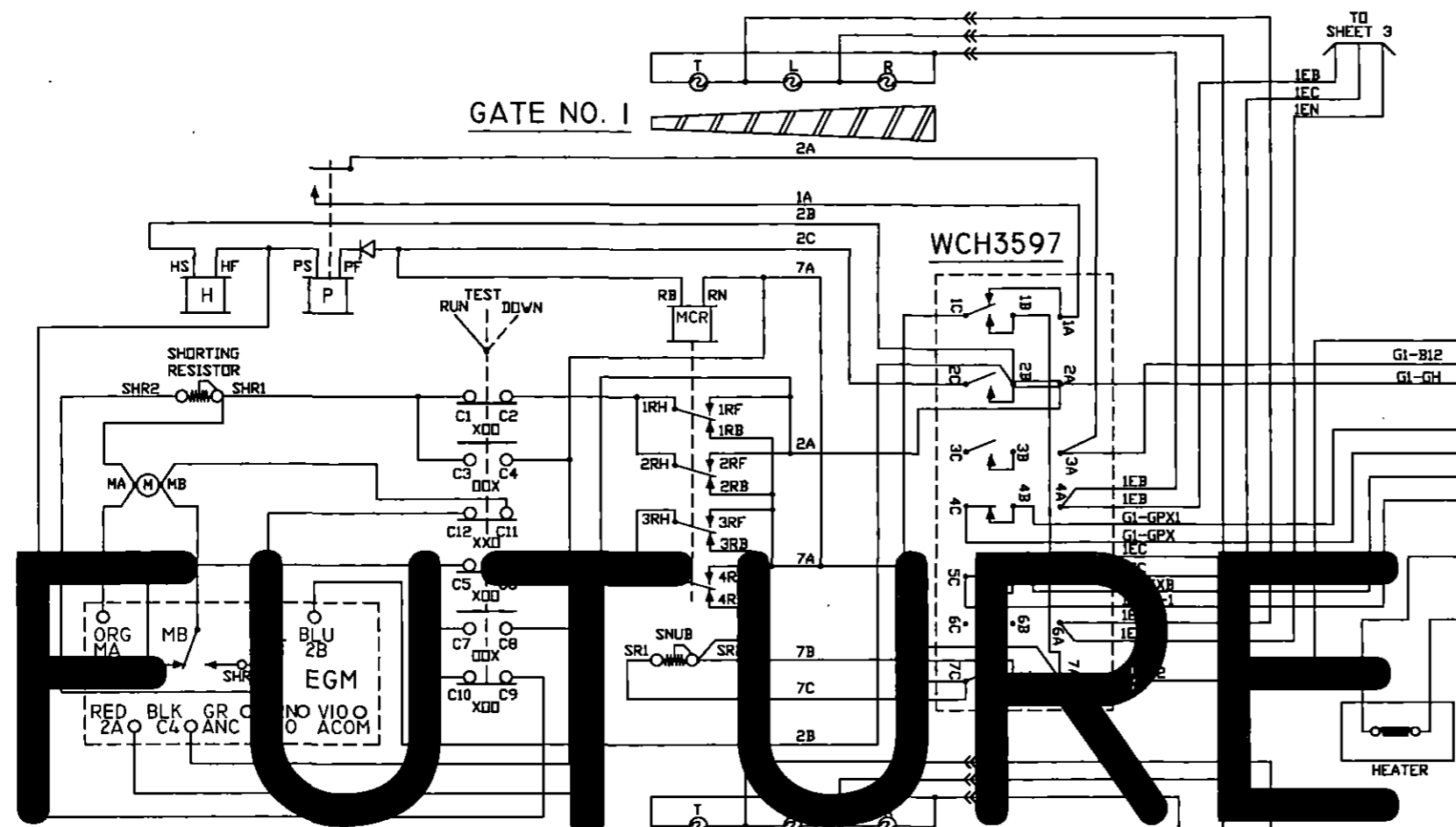


NOTE:
ALL WIRE THIS SHEET IS #10 AWG. FLEX
UNLESS OTHERWISE NOTED.

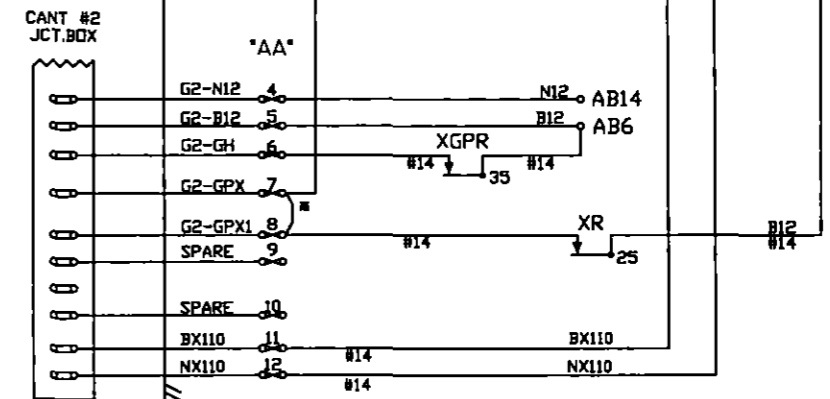
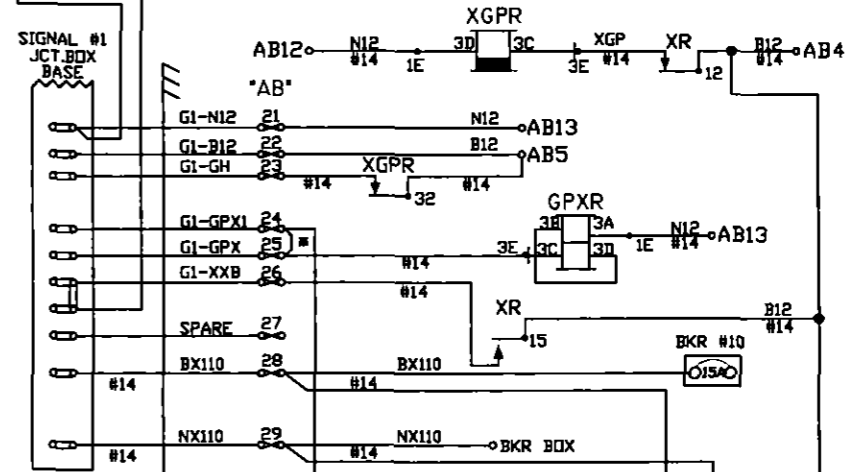
**DIAMONDBACK
SIGNAL**

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

AS WIRED		AS INSTALLED	
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 02/21/2022		REVISED:	
SOUTH FOURTH STREET DOT # 591 735M - M.P. 0.49 SUNBURY, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN 'B'			DRAWING NUMBER 0.49



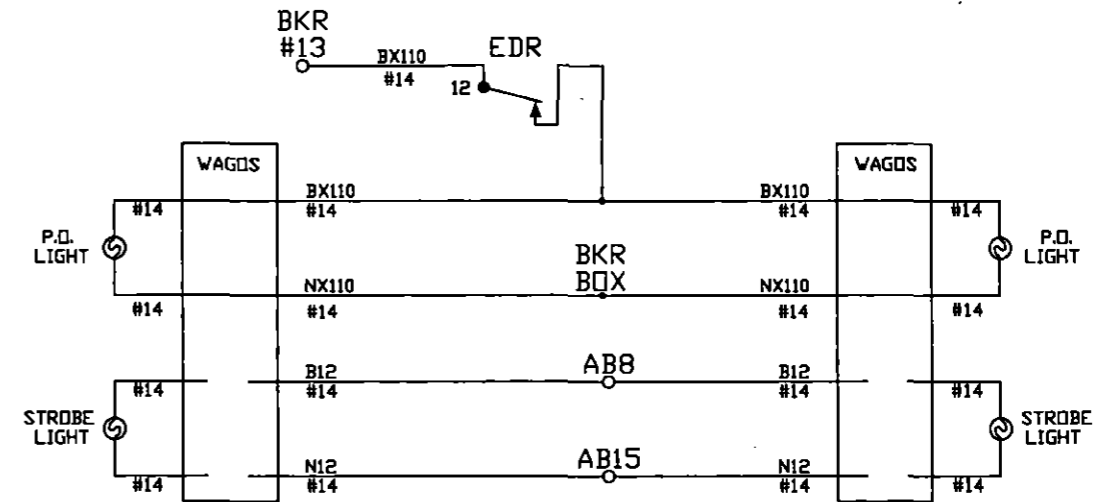
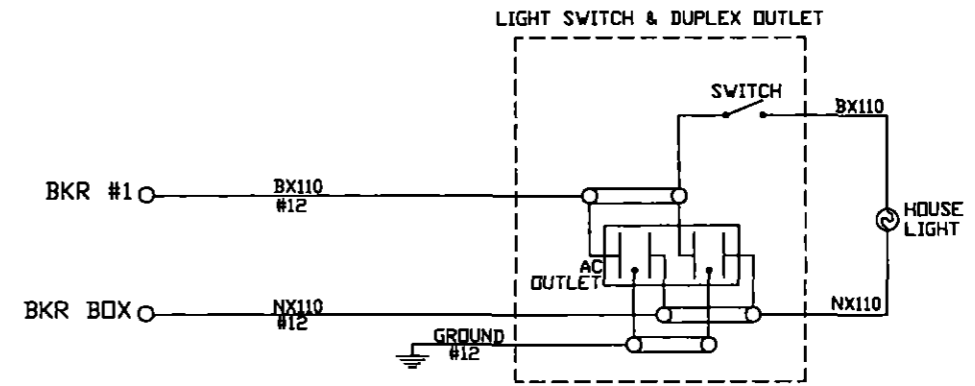
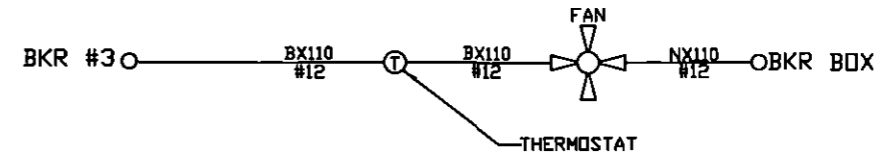
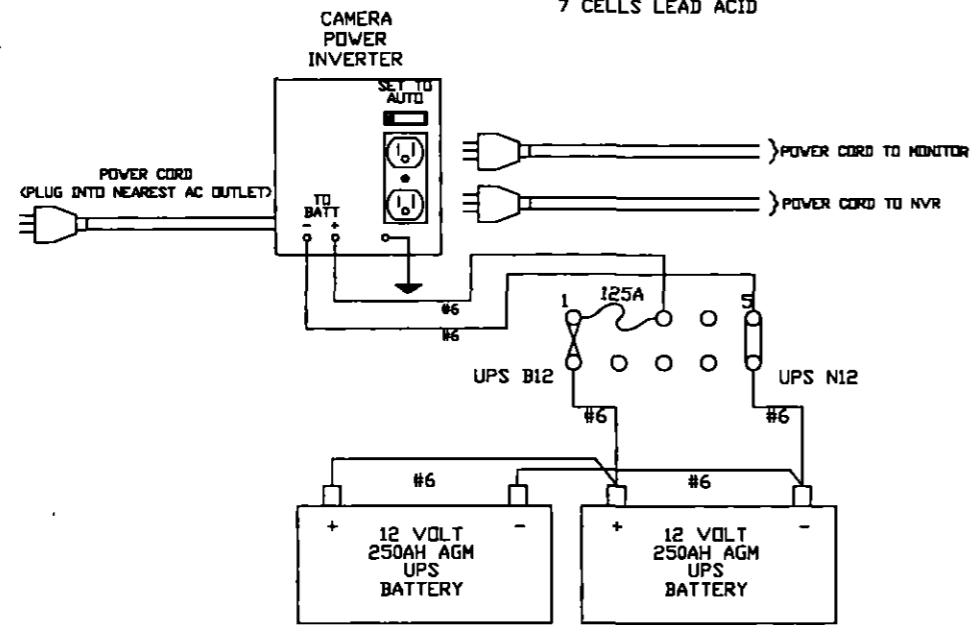
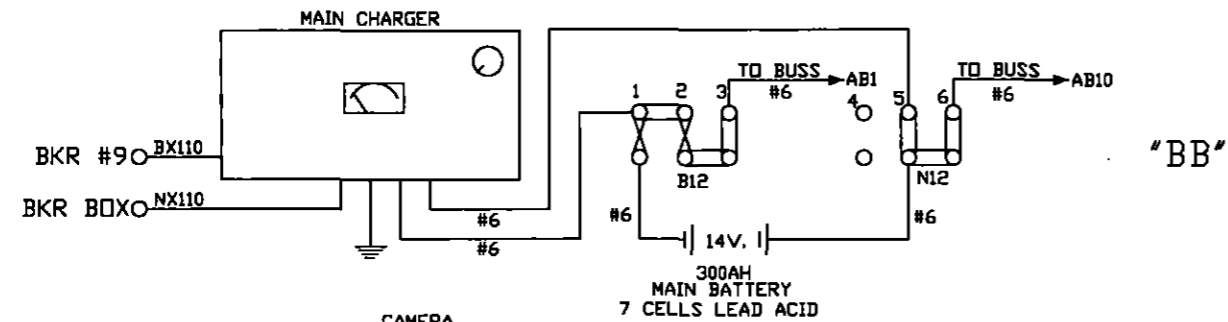
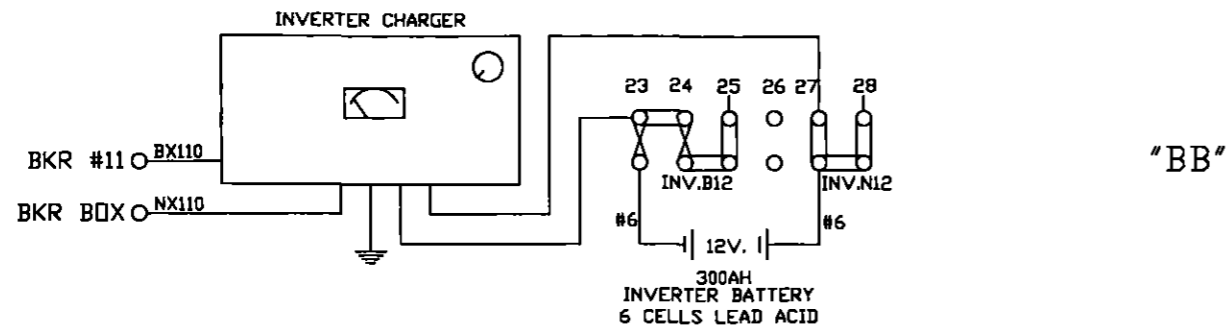
CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.



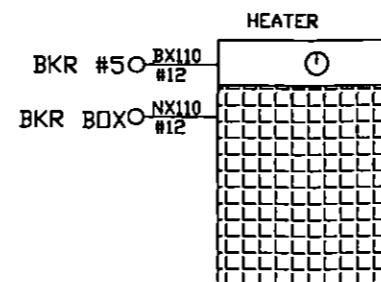
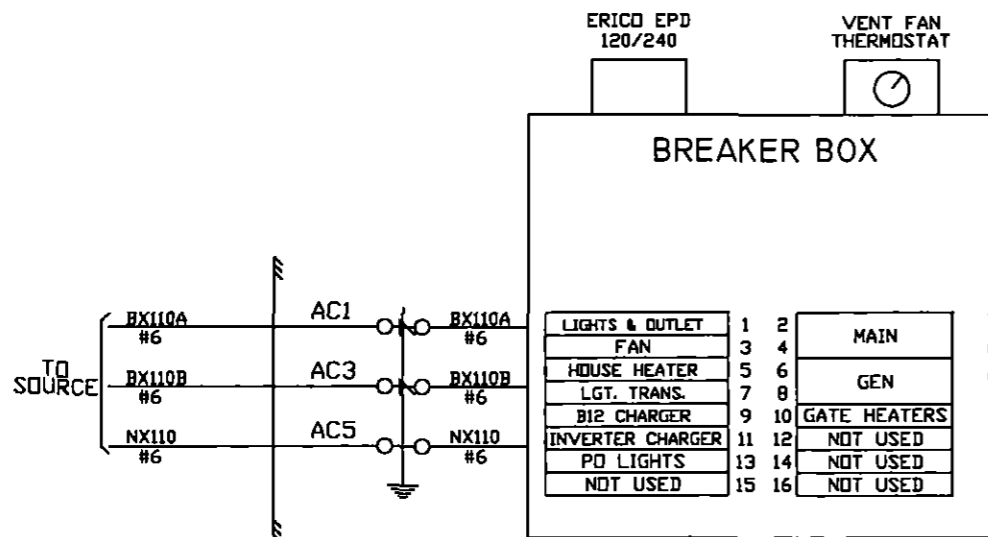
NOTES:
 ALL WIRE ON THIS SHEET IS #10AWG UNLESS OTHERWISE NOTED.
 * = TEMPORARY 'GATE READY' JUMPER.

FUTURE GATES

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 02/21/2022		REVISED:
SOUTH FOURTH STREET DOT # 591 735M - M.P. 0.49 SUNBURY, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN 'C'		DRAWING NUMBER 0.49	



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



DIAMONDBACK SIGNAL

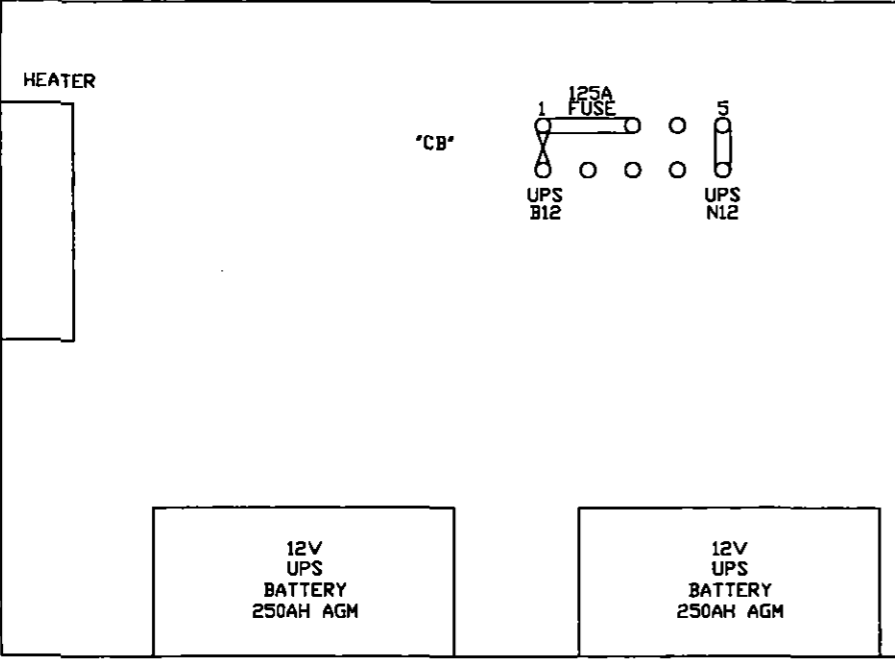
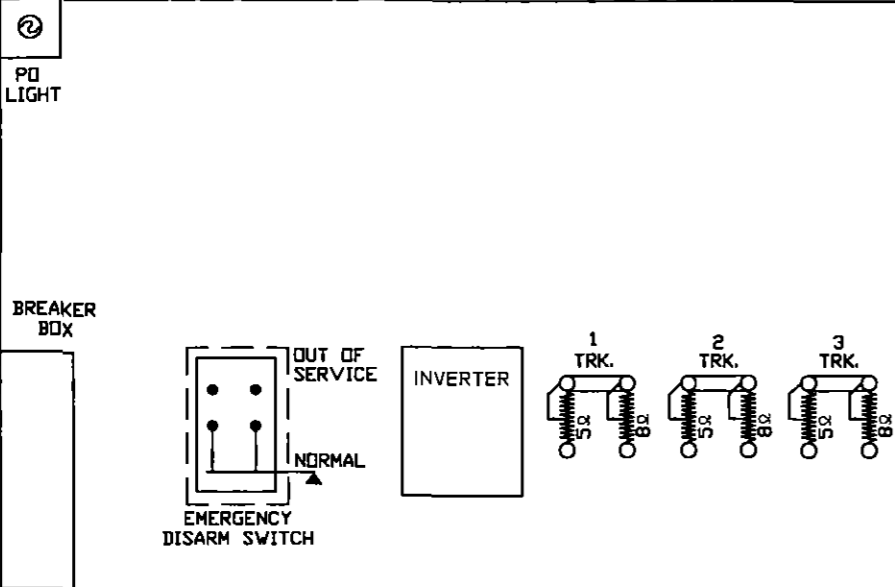
(410) 795-9601
5965 EXCHANGE DRIVE
SUITE "D"
SYKESVILLE, MD
21784

AS WIRED		AS INSTALLED	
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 02/21/2022		REVISED:	
SOUTH FOURTH STREET DOT # 591 735M - M.P. 0.49 SUNBURY, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN 'D'			DRAWING NUMBER 0.49

SIDE "C"

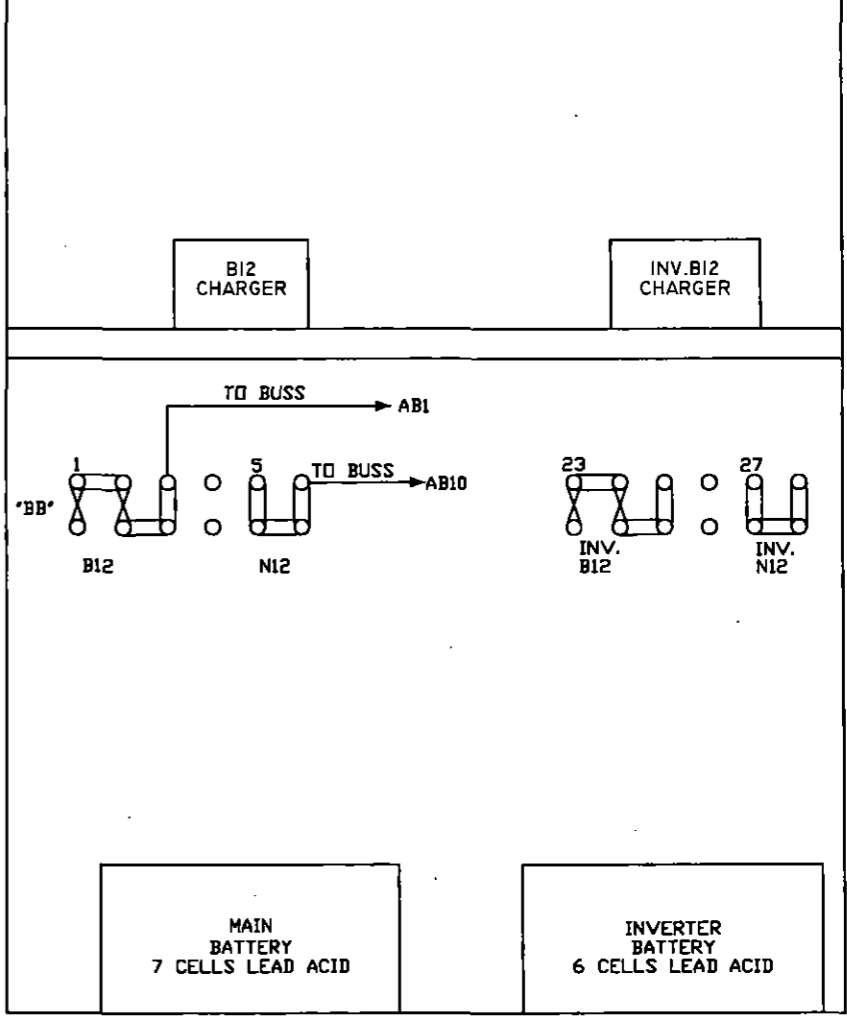
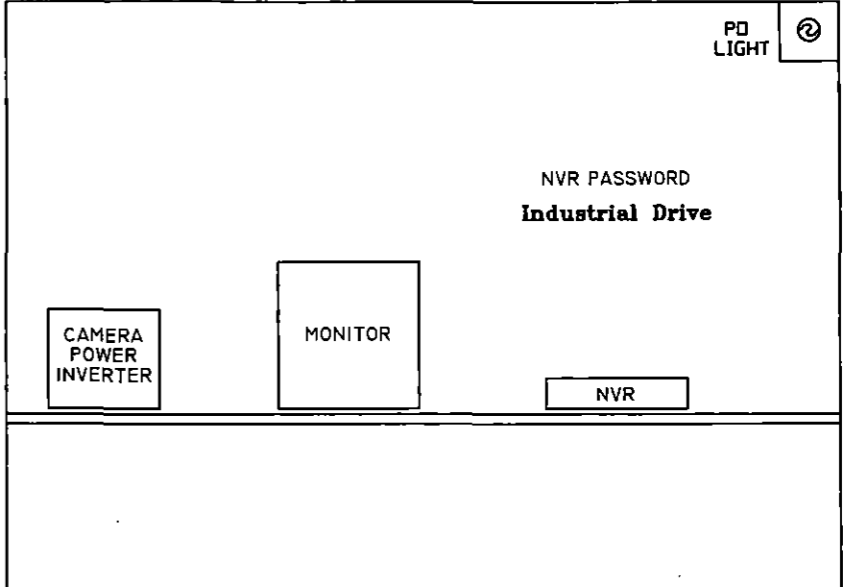
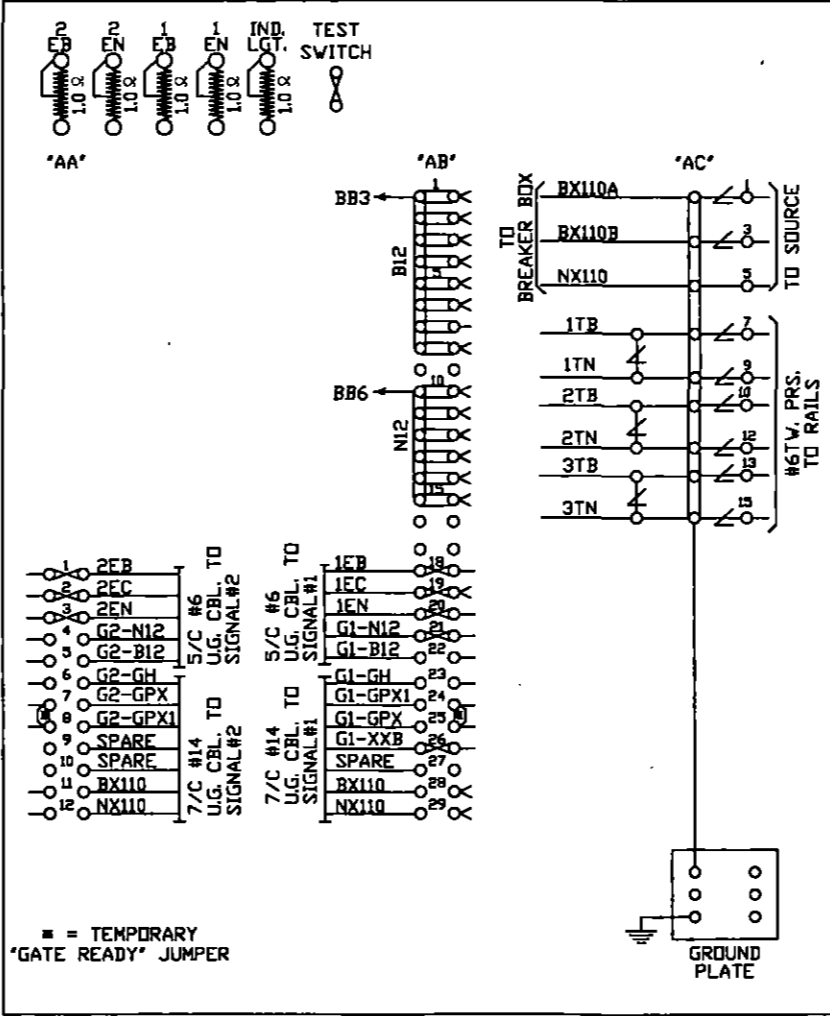
SIDE "A"

SIDE "B"



LIGHT TRANS.	POR	EOR	GPXR	XR	XGPR	EDR
	12 FB	12 FB	12 B	12 F	12 B	12 B
	15 FB	15 FB	15 B	15 F	15 B	15 B
	22	32 FB	22 B	22 F	32 F	22 B
	25	35 FB	23 B	25 F	35 F	25 F
	32 FB		25 B	32 F		32 B
	35 FB		32 B	35 B		35 B
			35			
	A62-406	A62-671	A62-310	A62-262	A62-360	A62-262
	400800	400700-X	400020	400000	400200	400000

	1 SR	TR	2 TR	3 TR	3 TPR	3 SR	SLT-000 STICK RELEASE TIMER (10 MIN)
	12 F	12 F	12 F	12 F	12 F	12 F	
	15 F	15 FB	15 FB	15 FB	15 F	15 F	
	22 B	22	22 B	22 B	22 B	22 B	
	23 B	23	23 F	23	23 B	23 B	
	25 F	25 F	25 F	25 F	25 F	25 F	
	32	32	32	32	32	32	
	35 B	35	35 B	35 B	35 B	35 B	
	A62-357	A62-120	A62-120	A62-120	A62-357	A62-357	
	400211	400510	400510	400211	400211	400211	



AS WIRED AS INSTALLED

DIAMONDBACK SIGNAL

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

SHAMOKIN VALLEY RAILROAD
RAILROAD CROSSING WARNING DEVICES

SCALE: NONE APPROVED BY: DRAWN BY: DBS
DATE: 02/21/2022 REVISED:

SOUTH FOURTH STREET
DOT # 591 735M - M.P. 0.49
SUNBURY, NORTHUMBERLAND COUNTY, PA

RELAY HOUSE LAYOUT DRAWING NUMBER 0.49

WEST

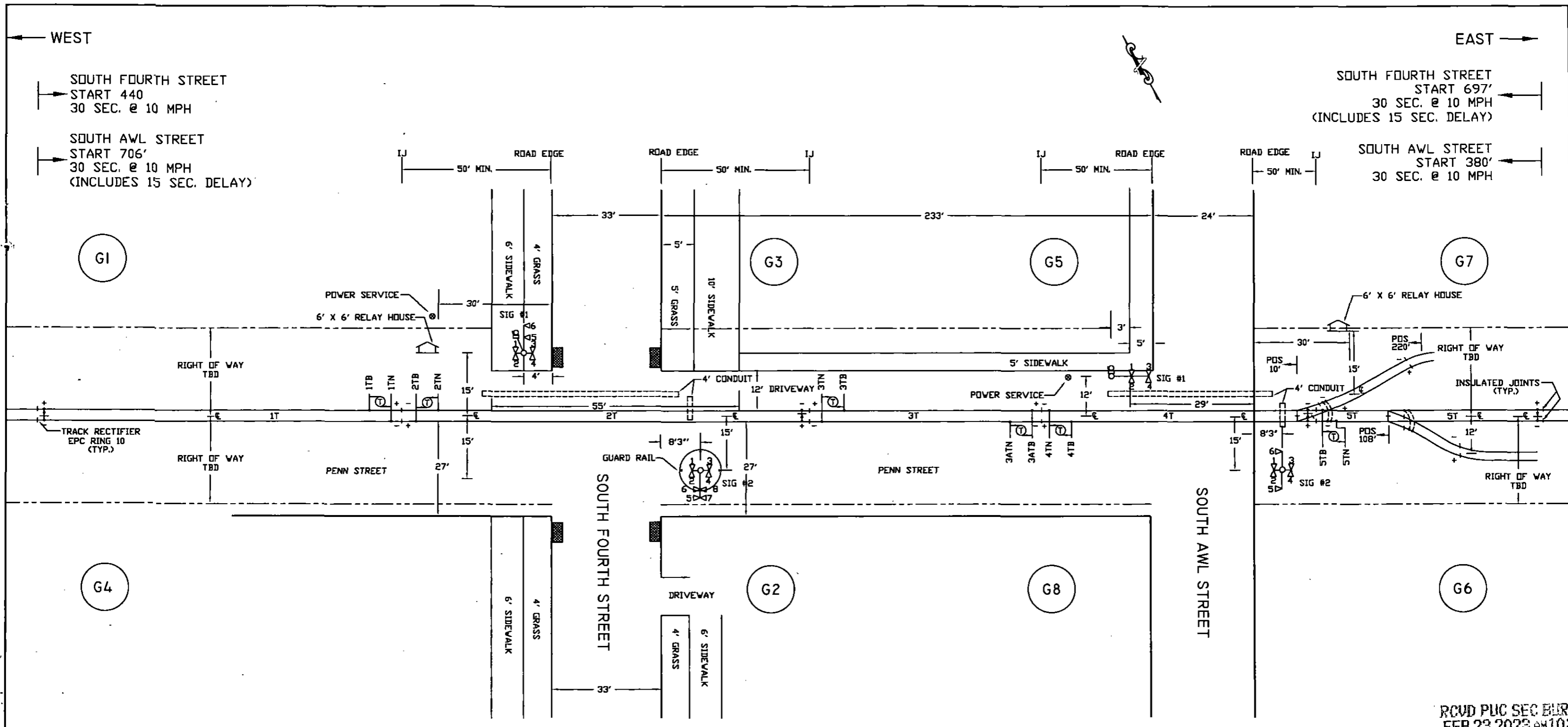
EAST

SOUTH FOURTH STREET
START 440
30 SEC. @ 10 MPH

SOUTH FOURTH STREET
START 697'
30 SEC. @ 10 MPH
(INCLUDES 15 SEC. DELAY)

SOUTH AWL STREET
START 706'
30 SEC. @ 10 MPH
(INCLUDES 15 SEC. DELAY)

SOUTH AWL STREET
START 380'
30 SEC. @ 10 MPH



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. FLASHLIGHT SIGNALS & GATE LIGHTS TO BE LIGHT EMITTING DIODE ASSEMBLIES, (LED).
4. BEWARE OF OVERHEAD WIRES WHEN SITING SIGNAL.
5. DENOTES TWIST PAIR.

**SOUTH FOURTH STREET
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 TWISTED PAIR
- HOUSE TO 2TN & 2TB - 2/C #6 TWISTED PAIR
- HOUSE TO 3TN & 3TB - 2/C #6 TWISTED PAIR

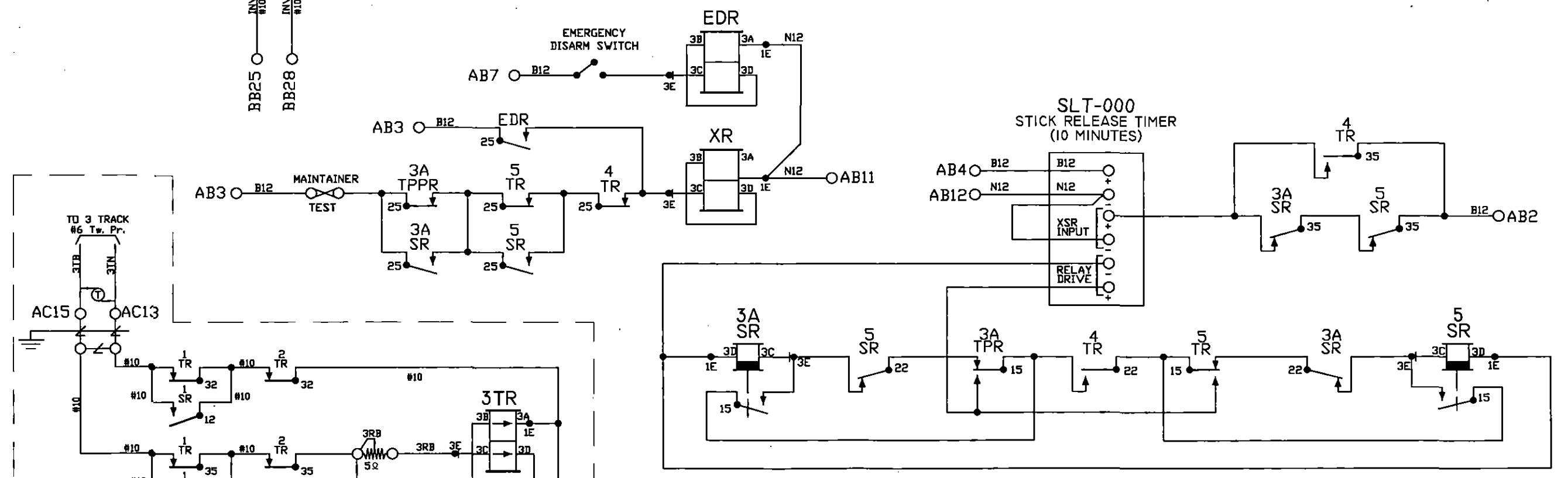
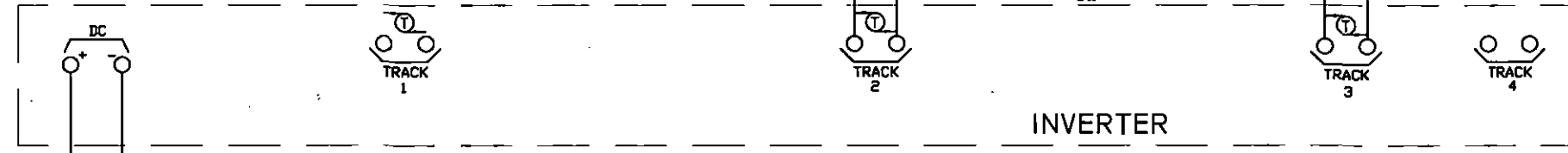
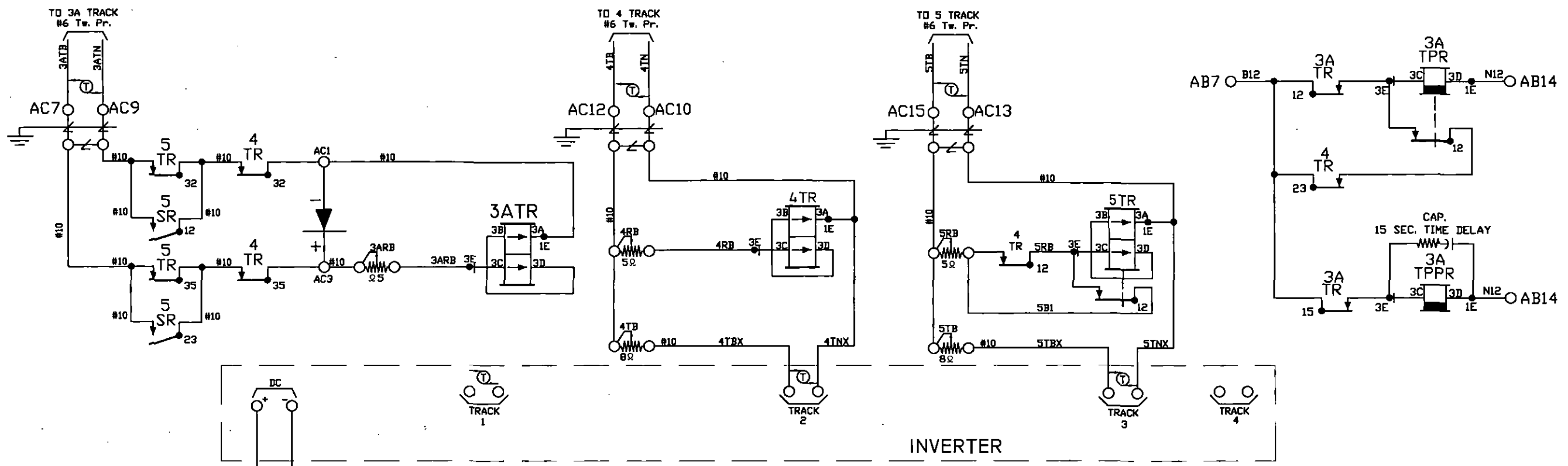
**SOUTH AWL STREET
CABLE RUN TABULATION**

- HOUSE TO SIGNAL #1 - 5/C #6 UG CABLE
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- HOUSE TO 3ATN & 3ATB - 2/C #6 TWISTED PAIR
- HOUSE TO 4TN & 4TB - 2/C #6 TWISTED PAIR
- HOUSE TO 5TN & 5TB - 2/C #6 TWISTED PAIR

RCVD PUC SEC BUR
FEB 23 2023 AM 10:35

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

AS WIRED		AS INSTALLED	
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 02/21/2022		REVISED:	
SOUTH AWL STREET DOT # 591 734F - M.P. 0.54 SUNBURY, NORTHUMBERLAND COUNTY, PA			
TRACK & CABLE PLAN			DRAWING NUMBER 0.49

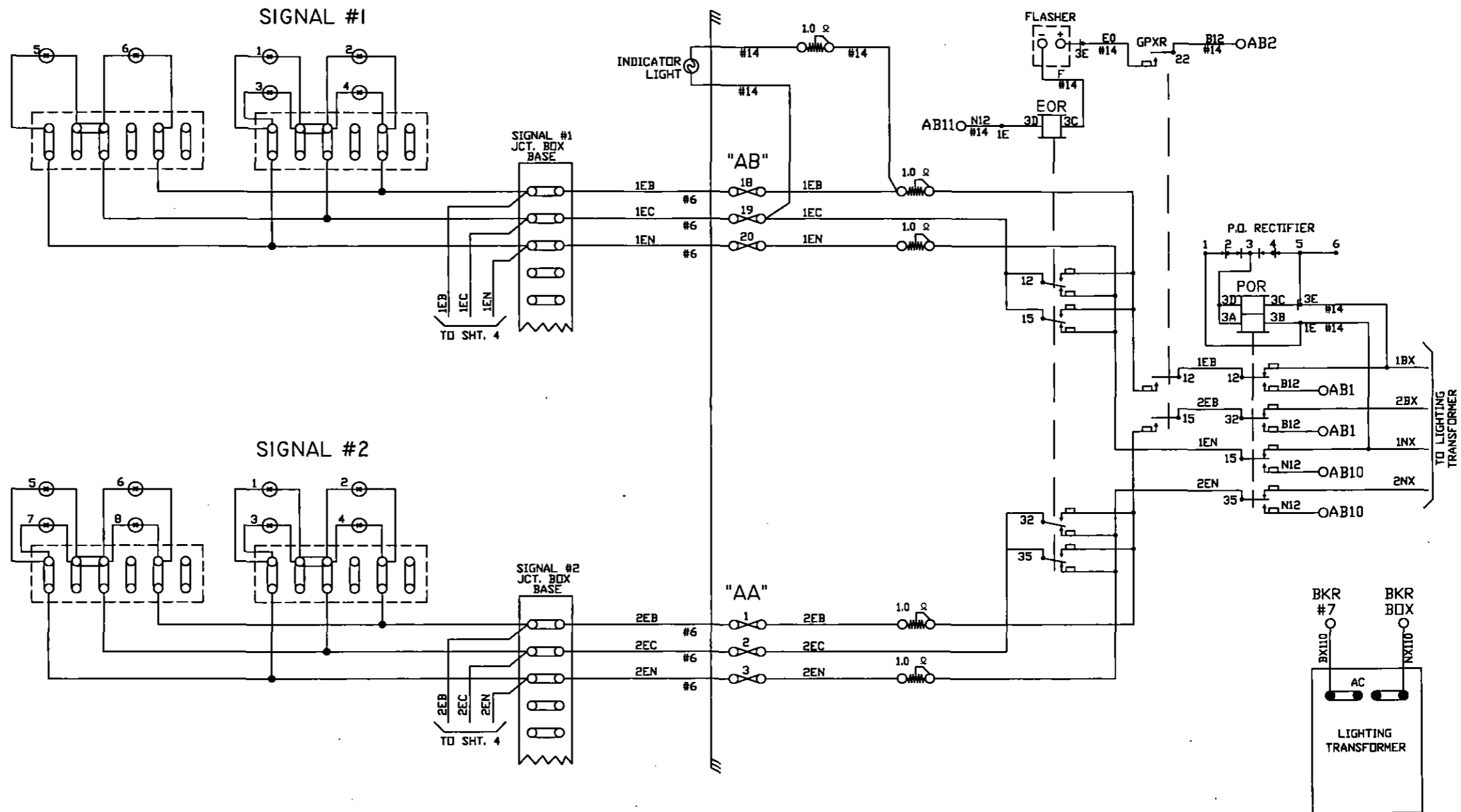


FOURTH STREET

- 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

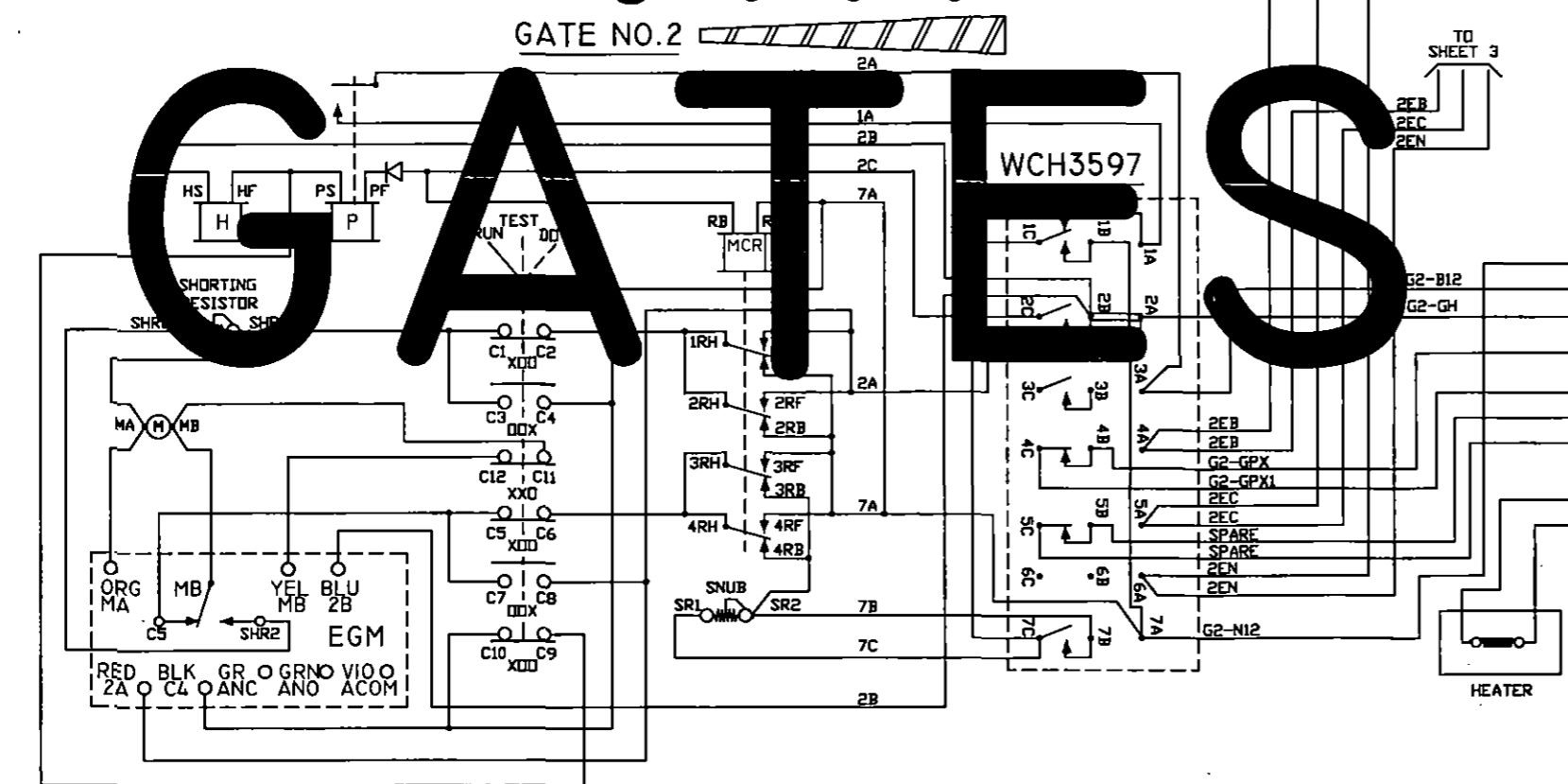
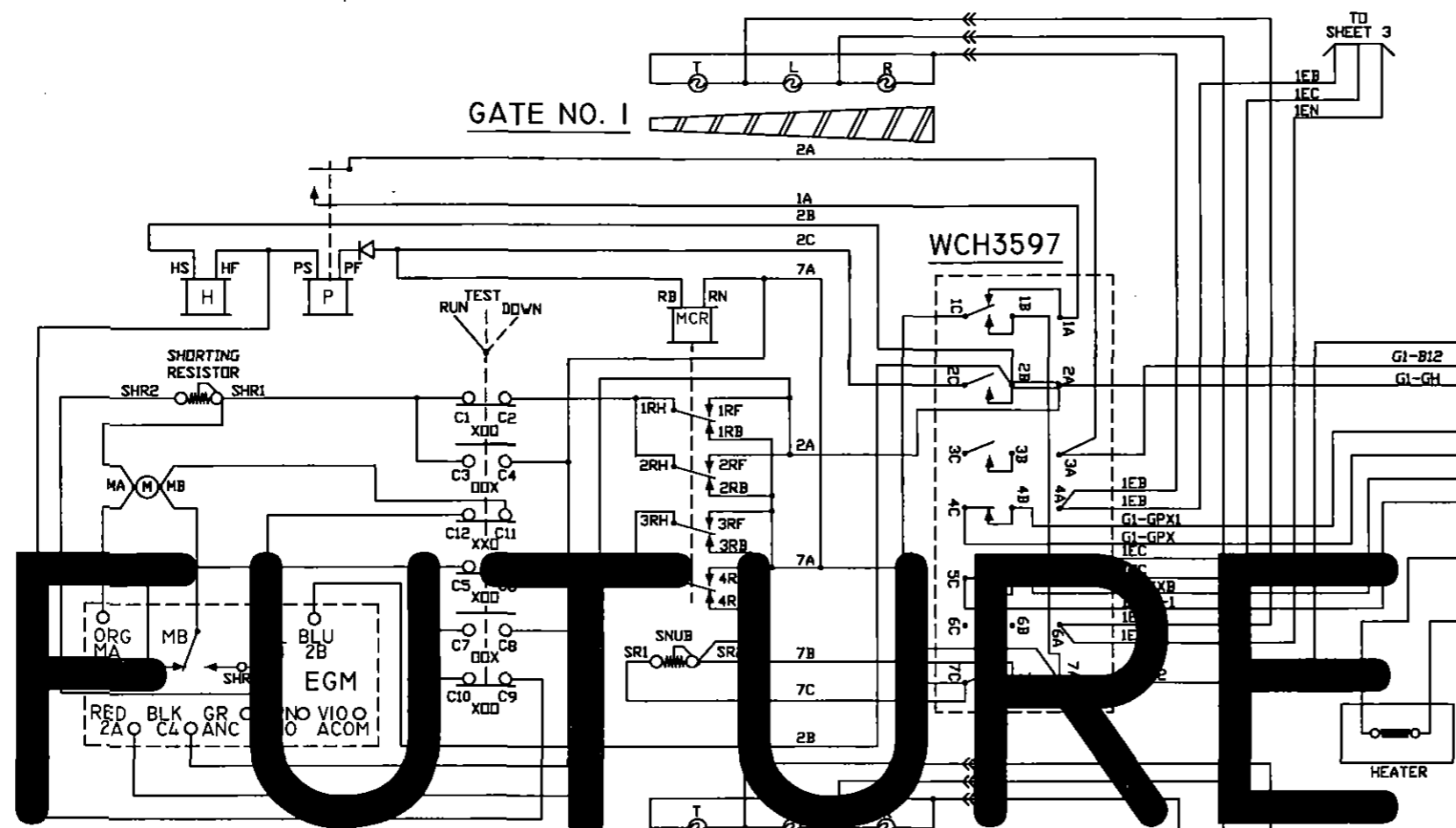
AS WIRED		AS INSTALLED	
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 02/21/2022		REVISED:	
SOUTH AWL STREET DOT # 591 734F - M.P. 0.54 SUNBURY, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN 'A'			DRAWING NUMBER 0.49



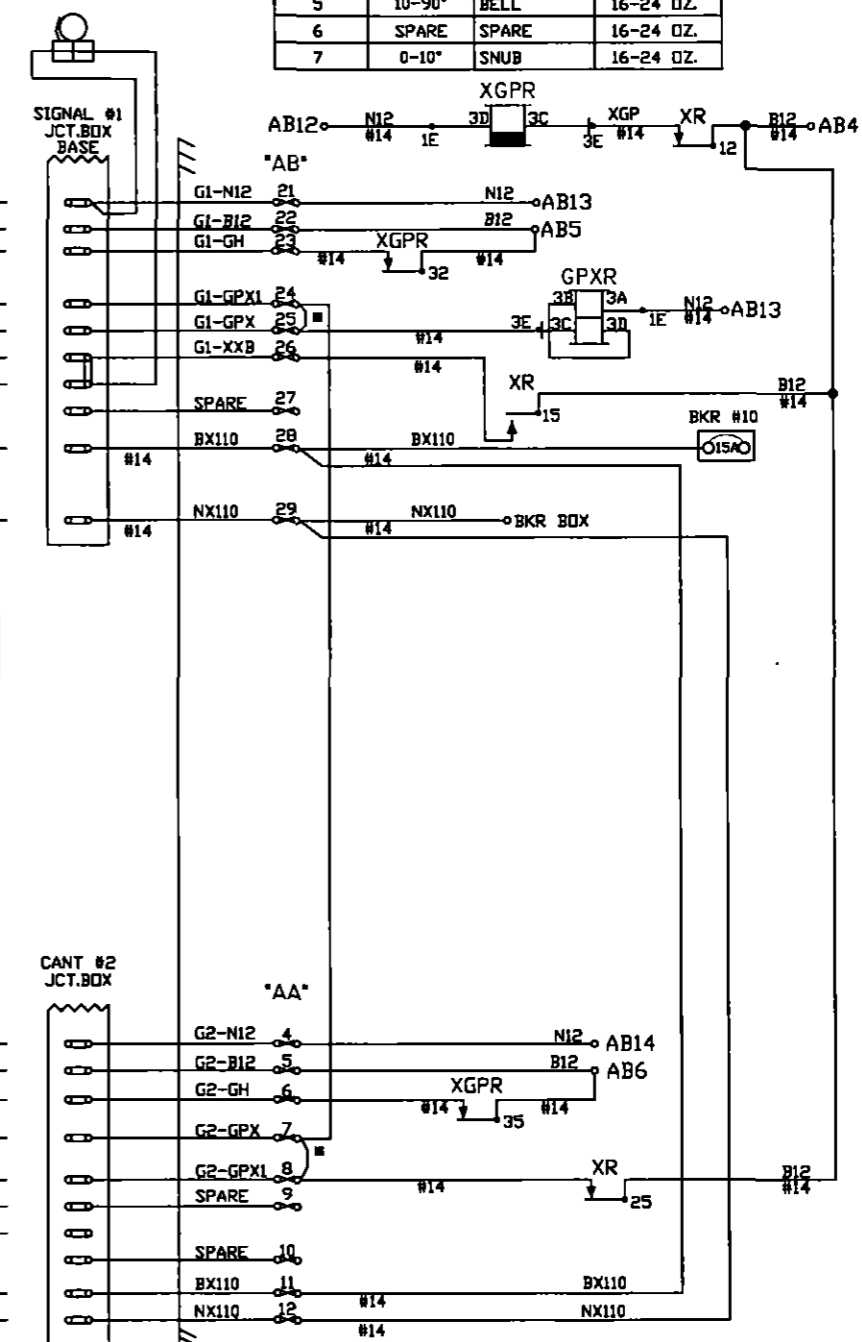
NOTE:
ALL WIRE THIS SHEET IS #10 AWG. FLEX
UNLESS OTHERWISE NOTED.

DIAMONDBACK SIGNAL		AS WIRED	AS INSTALLED
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 02/21/2022		REVISED:	
SOUTH AWL STREET DOT # 591 734F - M.P. 0.54 SUNBURY, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN "B"			DRAWING NUMBER 0.49

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

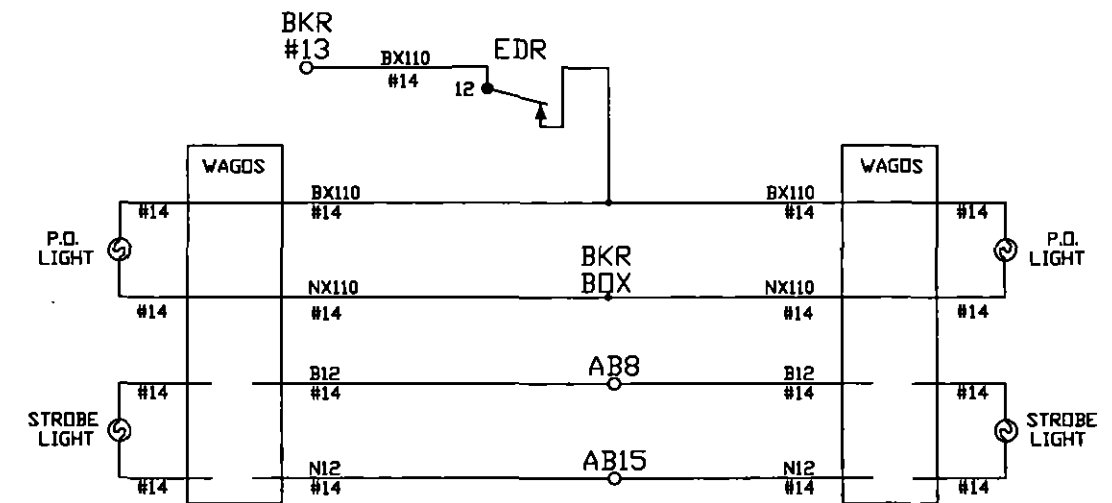
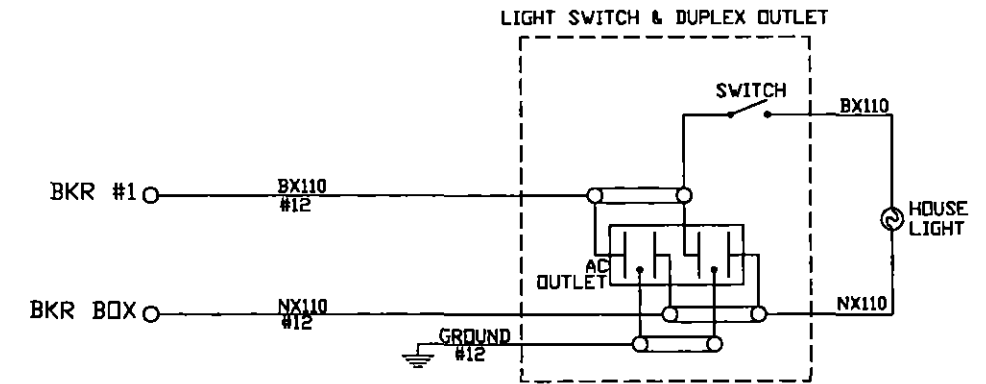
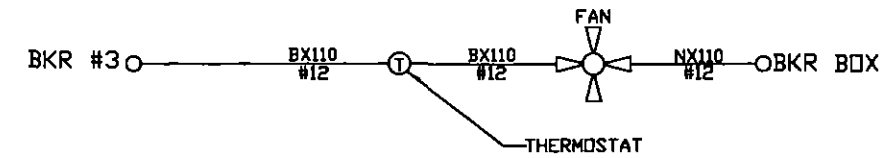
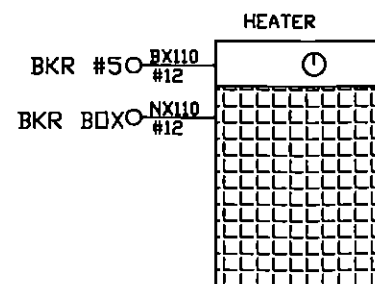
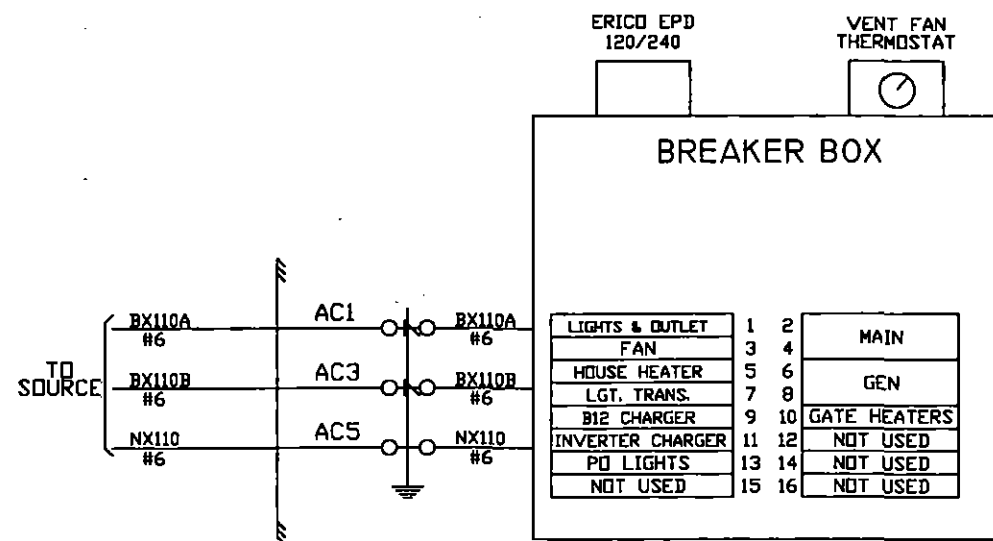
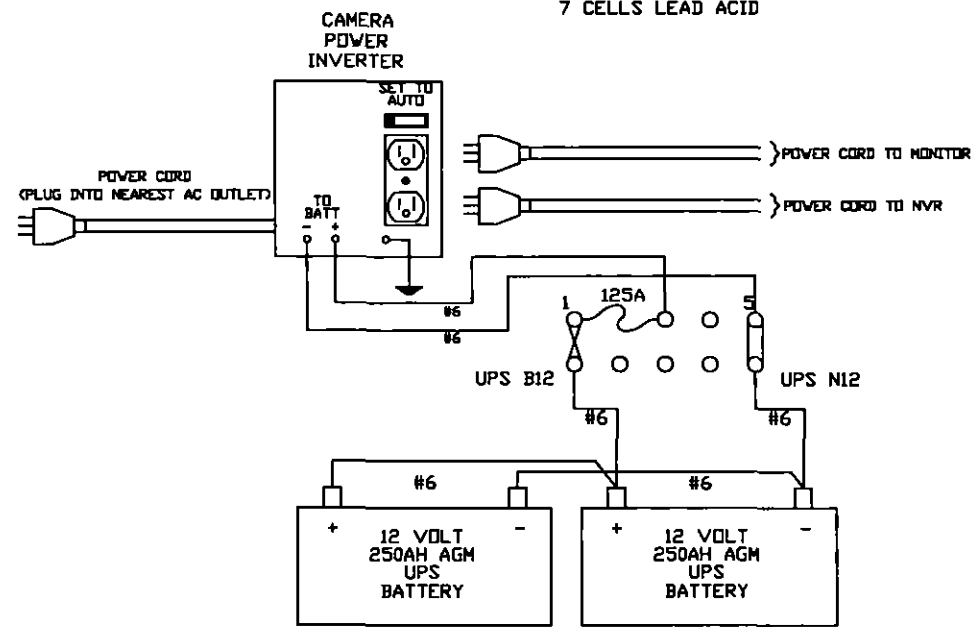
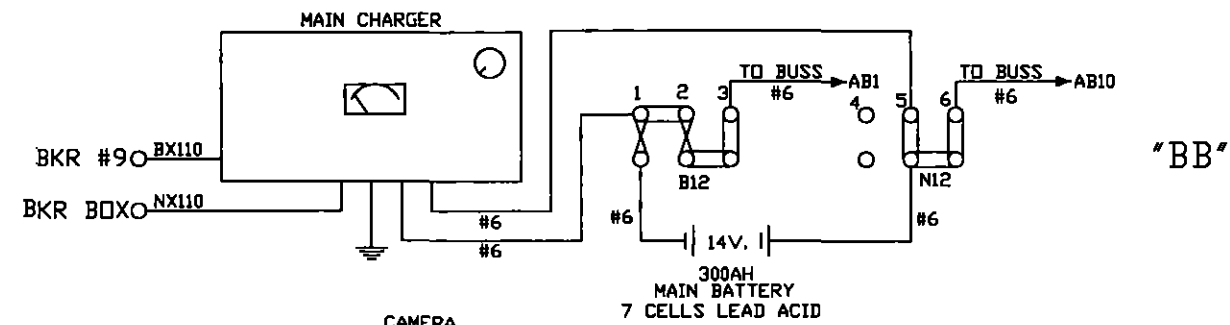
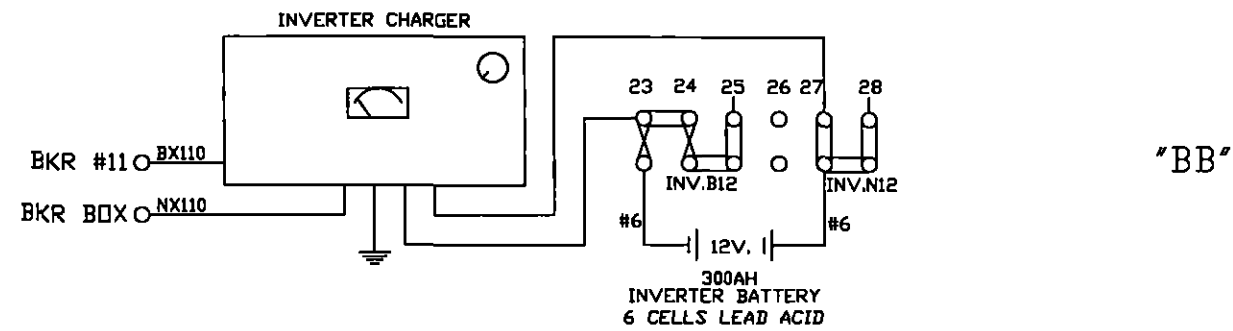


CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.



NOTES:
 ALL WIRE ON THIS SHEET IS #10AWG UNLESS OTHERWISE NOTED.
 * = TEMPORARY 'GATE READY' JUMPER.

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 02/21/2022		REVISED:
SOUTH AWL STREET DOT # 591 734F - M.P. 0.54 SUNBURY, NORTHUMBERLAND COUNTY, PA		DRAWING NUMBER	
CIRCUIT PLAN 'C'		0.49	



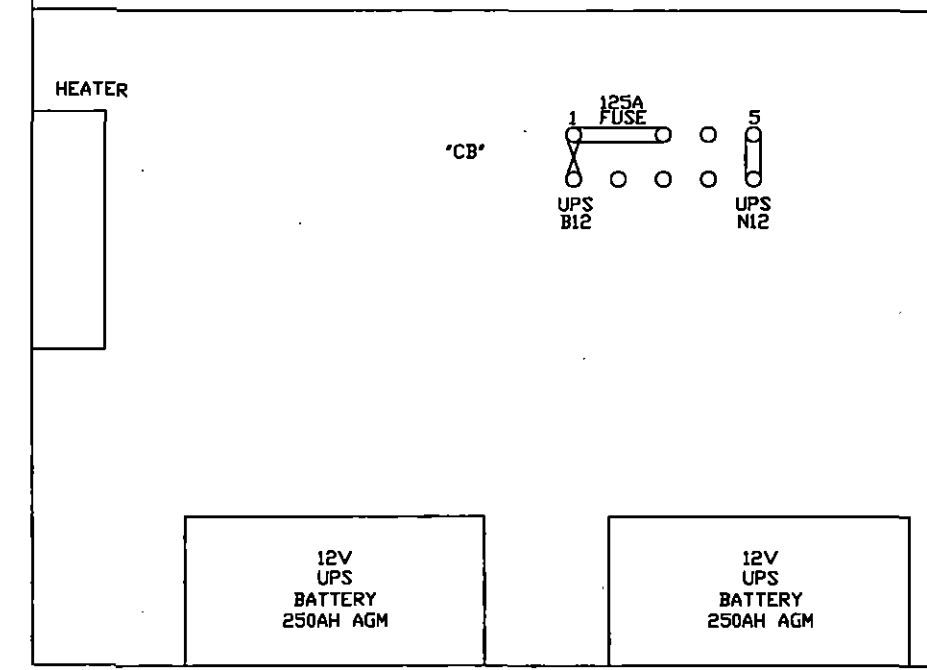
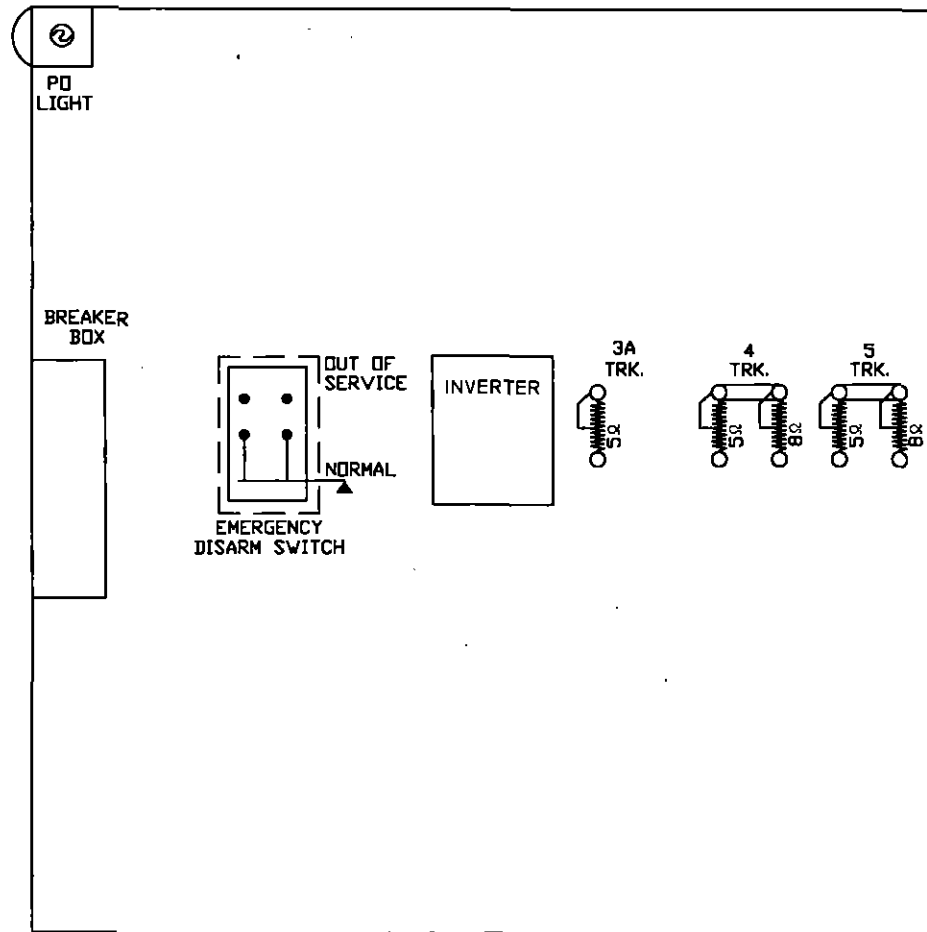
NOTE:
ALL WIRE THIS SHEET IS #10 AWG FLEX
UNLESS OTHERWISE NOTED.

DIAMONDBACK SIGNAL	AS WIRED	AS INSTALLED
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES	
(410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	SCALE: NONE DATE: 02/21/2022	APPROVED BY: DRAWN BY: DBS REVISED:
SOUTH AWL STREET DOT # 591 734F - M.P. 0.54 SUNBURY, NORTHUMBERLAND COUNTY, PA		DRAWING NUMBER 0.49
CIRCUIT PLAN "D"		

SIDE "C"

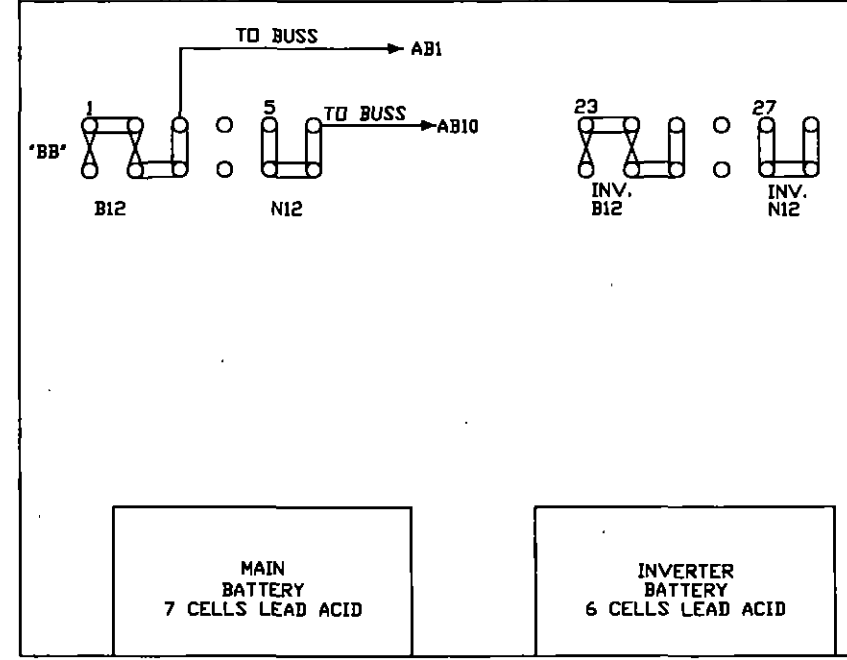
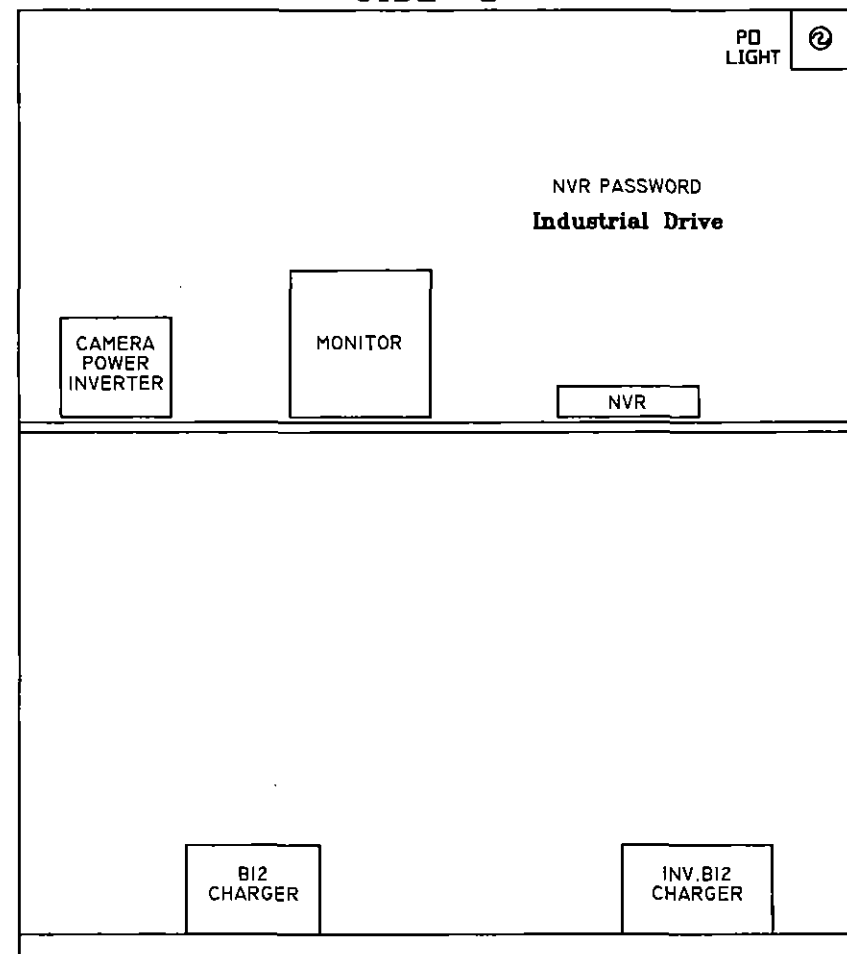
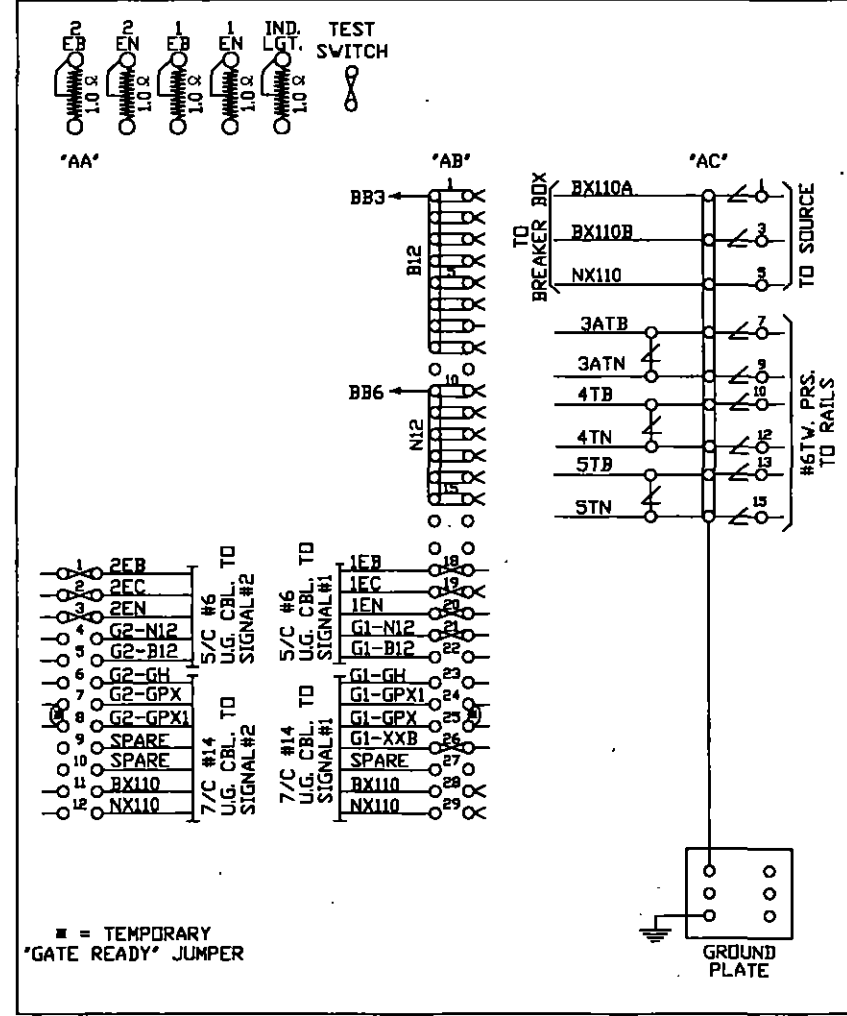
SIDE "A"

SIDE "B"



LIGHT TRANS.	POR	EOR	GPXR	XR	XGPR	EDR
	12 FB	12 FB	12 B	12 F	12	12 B
15 FB	15 FB	15 B	15	15	15	
22	32 FB	22 B	22	32 F	22	
25	35 FB	23	25 F	35 F	25 F	
32 FB		25	32		32 B	
35 FB		32	35 B		35	
		35				
	A62-406	A62-671	A62-310	A62-262	A62-360	A62-262
	400800	400700-X	400020	400000	400200	400000

	3A SR	3A TR	3A TPR	4 TR	5 TR	5 SR	SLT-000 STICK RELEASE TIMER (10 MIN)
	12	F	F	F	F	F	
15	F	FB	F	F	FB	F	
22	B		B	B		B	
23	B		B	F		B	
25	F	F	F	F	F	F	
32							
35	B		B	B		B	
	A62-357	A62-120	A62-357	A62-357	A62-120	A62-357	
	400211	400510	400211	400510	400510	400211	



DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES	
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
DATE: 02/21/2022		REVISED:
SOUTH AWL STREET DOT # 591 734F - M.P. 0.54 SUNBURY, NORTHUMBERLAND COUNTY, PA		
RELAY HOUSE LAYOUT		DRAWING NUMBER 0.49

WEST

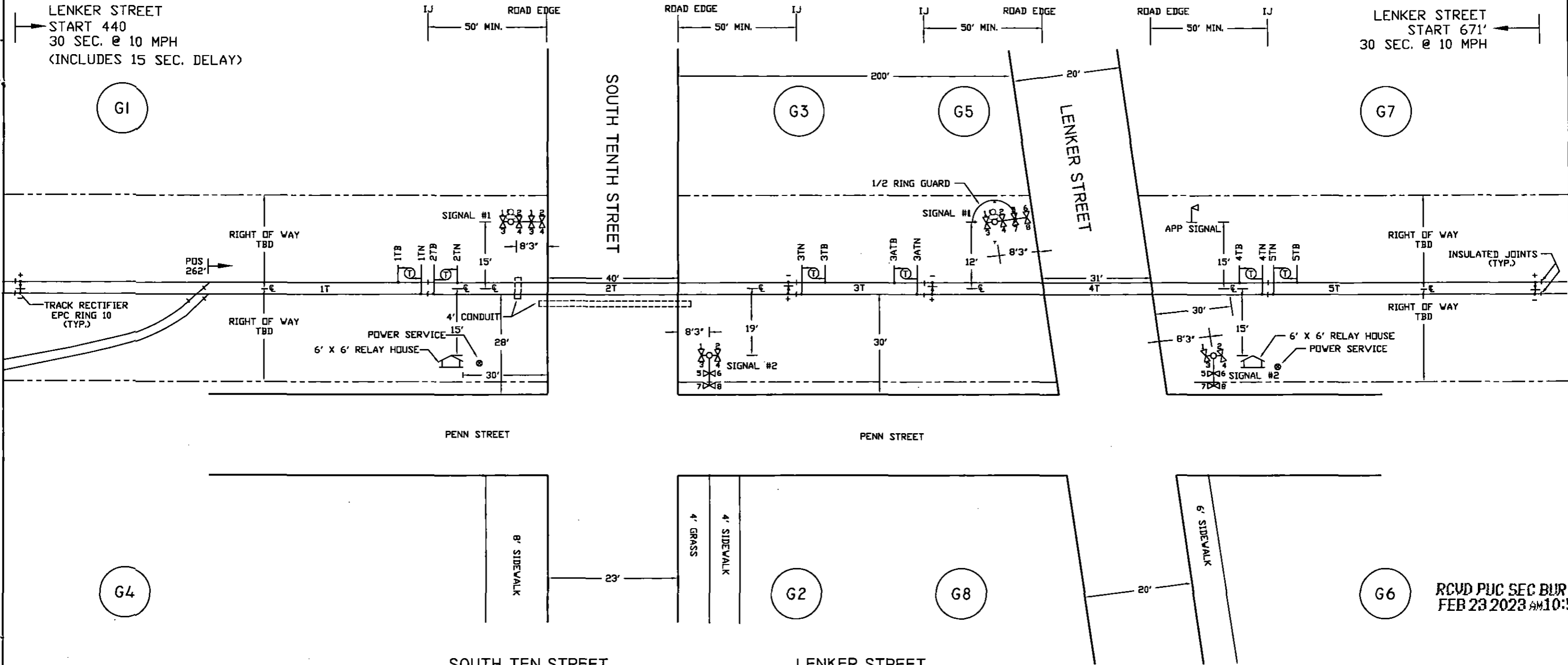
EAST

SOUTH TENTH STREET
START 680
30 SEC. @ 10 MPH

SOUTH TENTH STREET
START 440'
30 SEC. @ 10 MPH
(INCLUDES 15 SEC. DELAY)

LENKER STREET
START 440
30 SEC. @ 10 MPH
(INCLUDES 15 SEC. DELAY)

LENKER STREET
START 671'
30 SEC. @ 10 MPH



G1

G3

G5

G7

G4

G2

G8

G6

RCVD PUC SEC BUR
FEB 23 2023 AM 10:53

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. FLASHLIGHT SIGNALS & SIGNAL LIGHTS TO BE LIGHT EMITTING DIODE ASSEMBLIES, (LED).
4. BEWARE OF OVERHEAD WIRES WHEN SITING SIGNAL.
5. DENOTES TWIST PAIR.

SOUTH TEN STREET
CABLE RUN TABULATION

HOUSE TO SIGNAL #1	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO SIGNAL #2	- 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 TWISTED PAIR
HOUSE TO 2TN & 2TB	- 2/C #6 TWISTED PAIR
HOUSE TO 3TN & 3TB	- 2/C #6 TWISTED PAIR

LENKER STREET
CABLE RUN TABULATION

HOUSE TO SIGNAL #1	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO SIGNAL #2	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO AC SERVICE	- 3/C #9 UG CABLE
HOUSE TO 3ATN & 3ATB	- 2/C #6 TWISTED PAIR
HOUSE TO 4TN & 4TB	- 2/C #6 TWISTED PAIR
HOUSE TO 5TN & 5TB	- 2/C #6 TWISTED PAIR

DIAMONDBACK SIGNAL

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

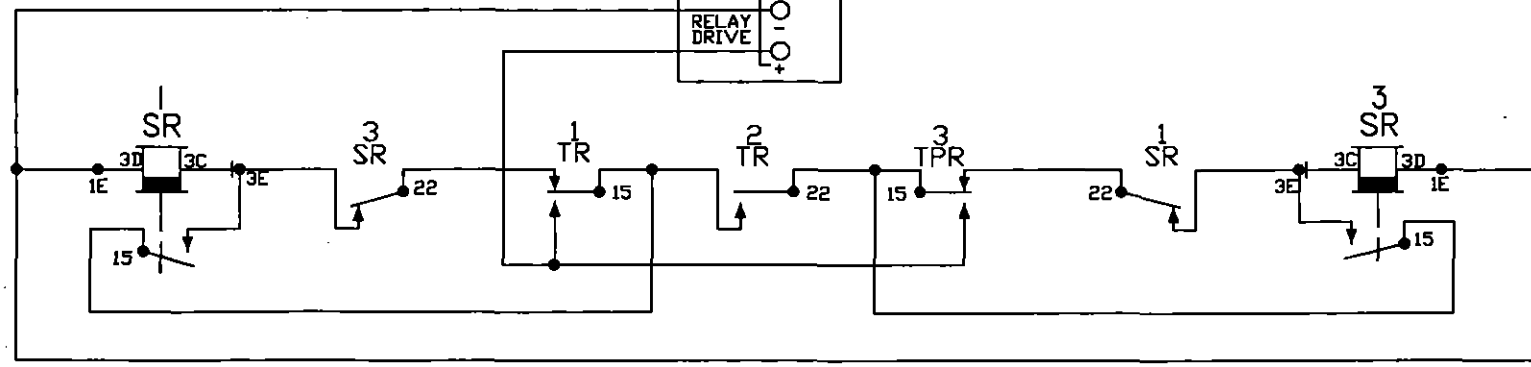
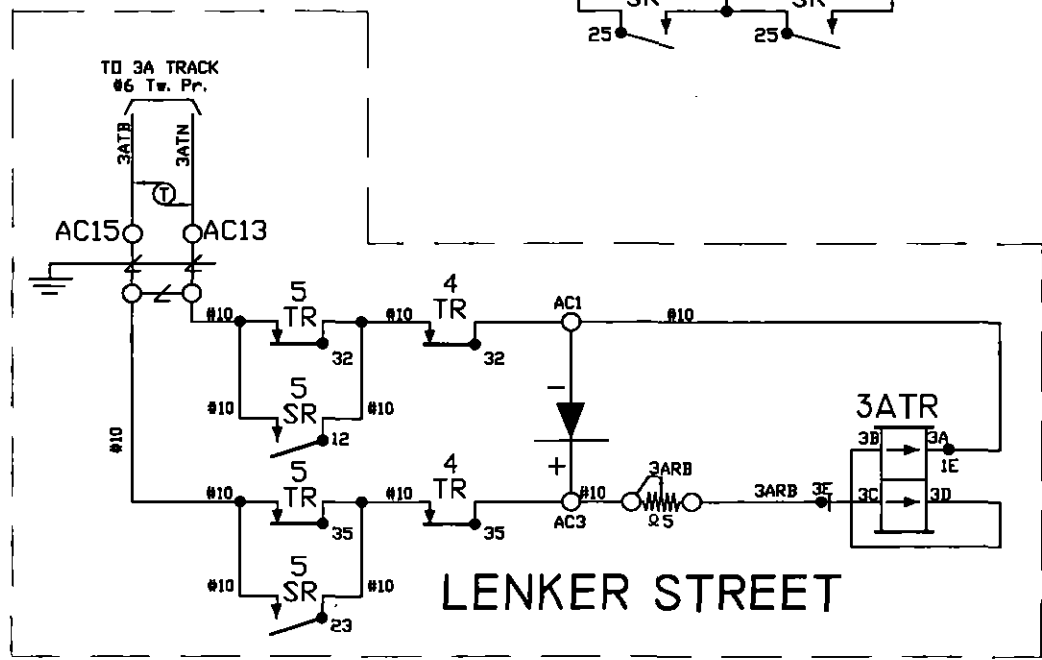
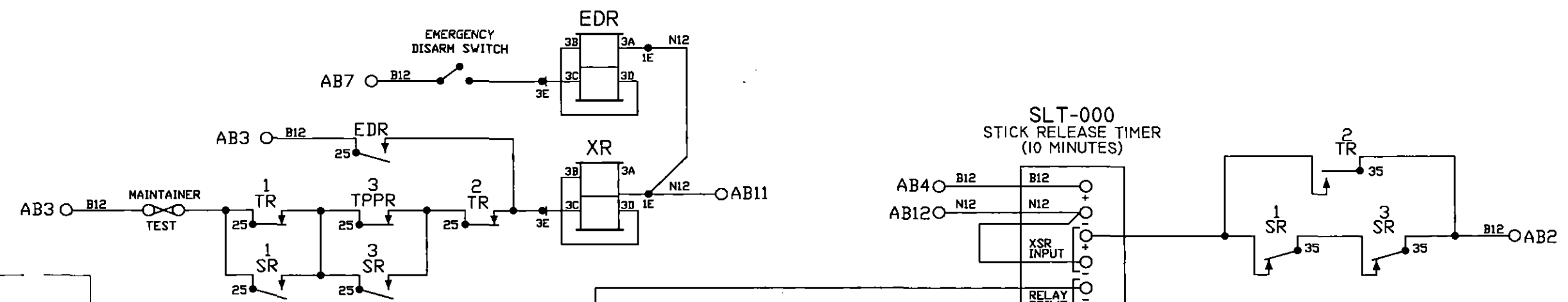
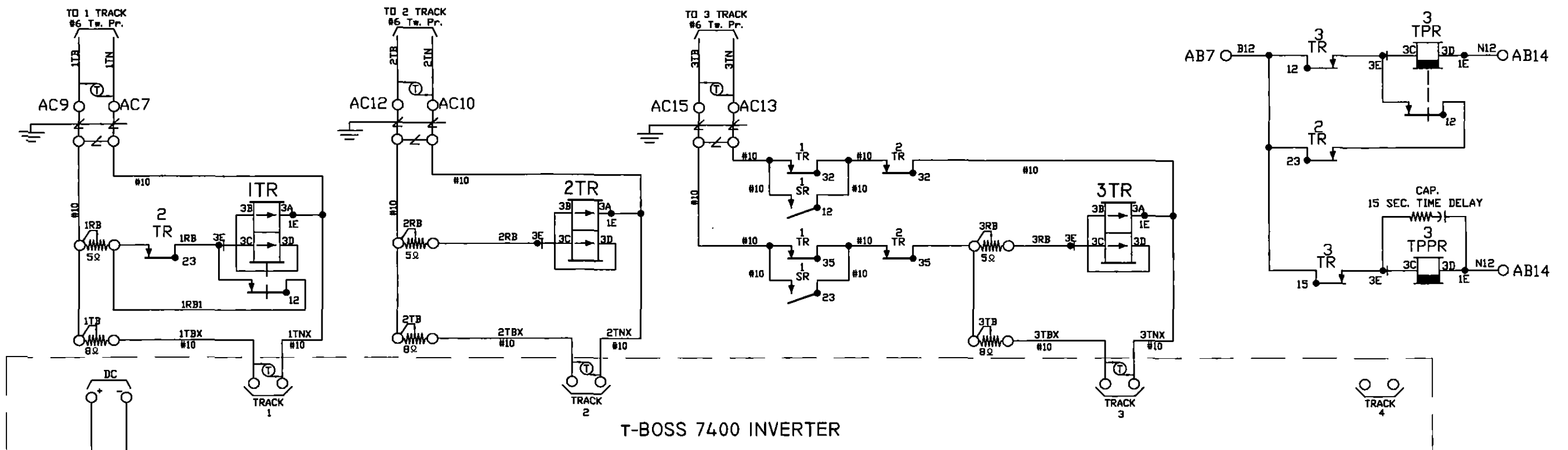
AS WIRED AS INSTALLED

SHAMOKIN VALLEY RAILROAD
RAILROAD CROSSING WARNING DEVICES

SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
DATE: 02/22/2022		REVISED:

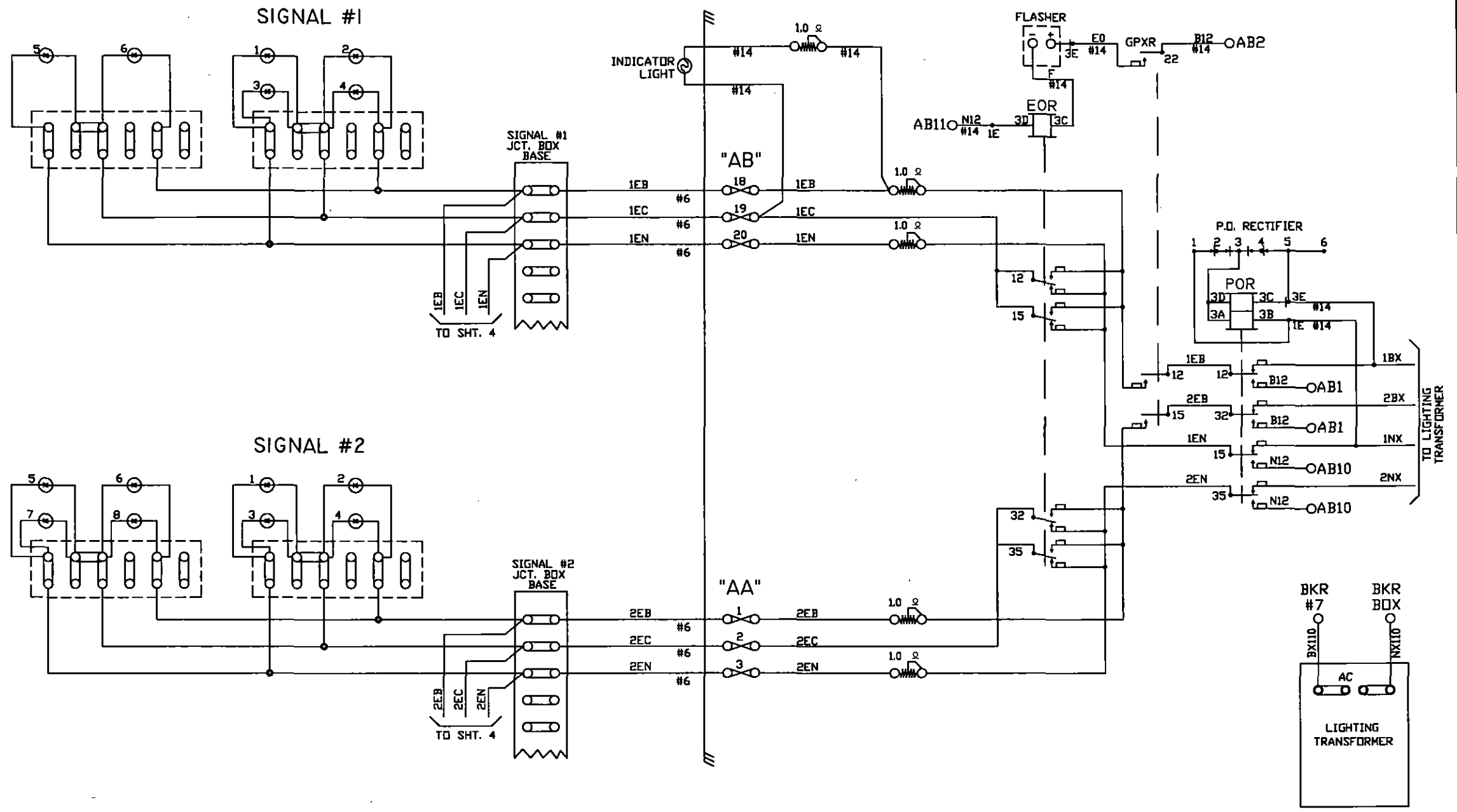
SOUTH TENTH STREET
DOT # 591 733Y - M.P. 0.81
SUNBURY, NORTHUMBERLAND COUNTY, PA

TRACK & CABLE PLAN
DRAWING NUMBER 0.86



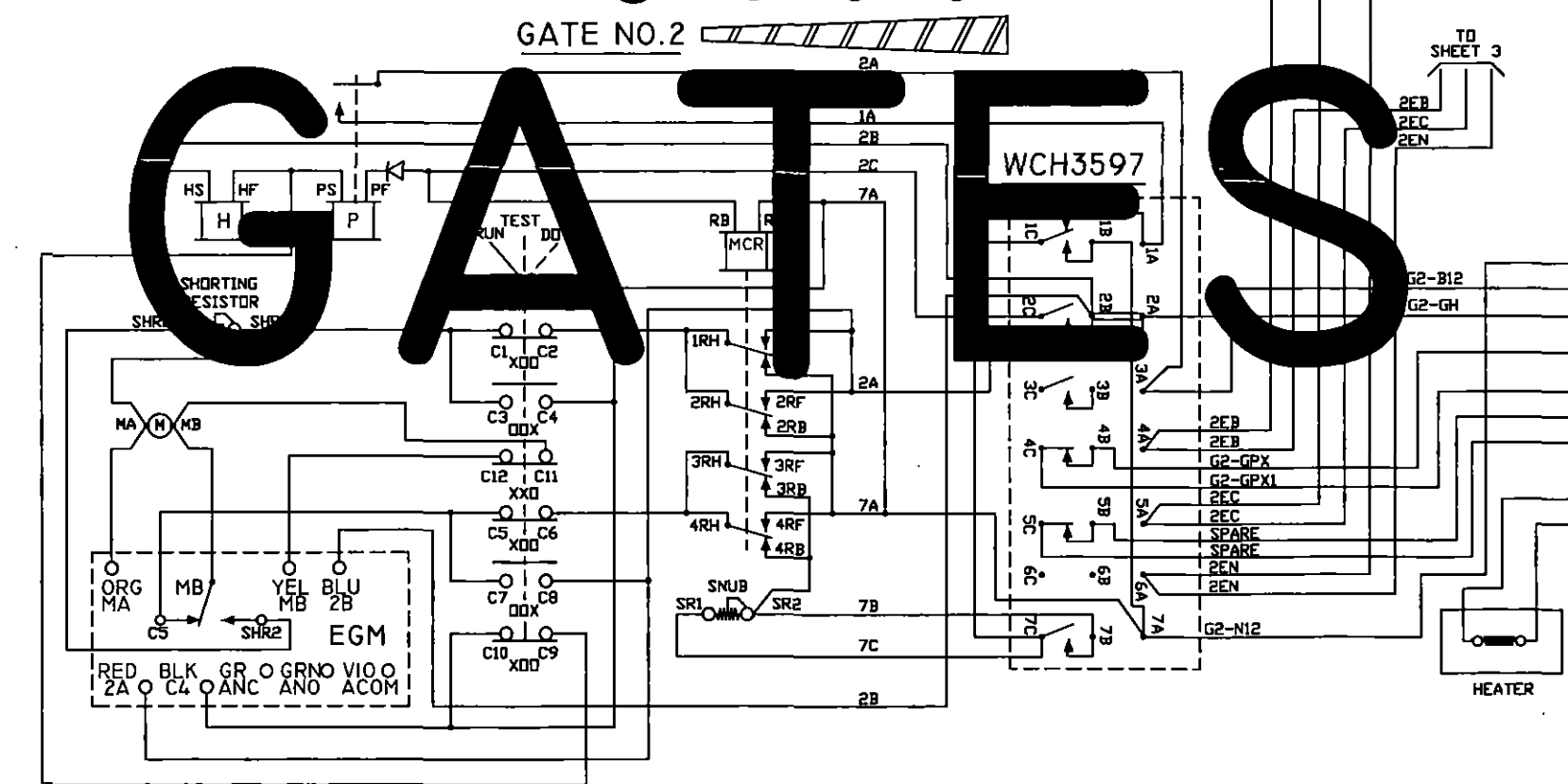
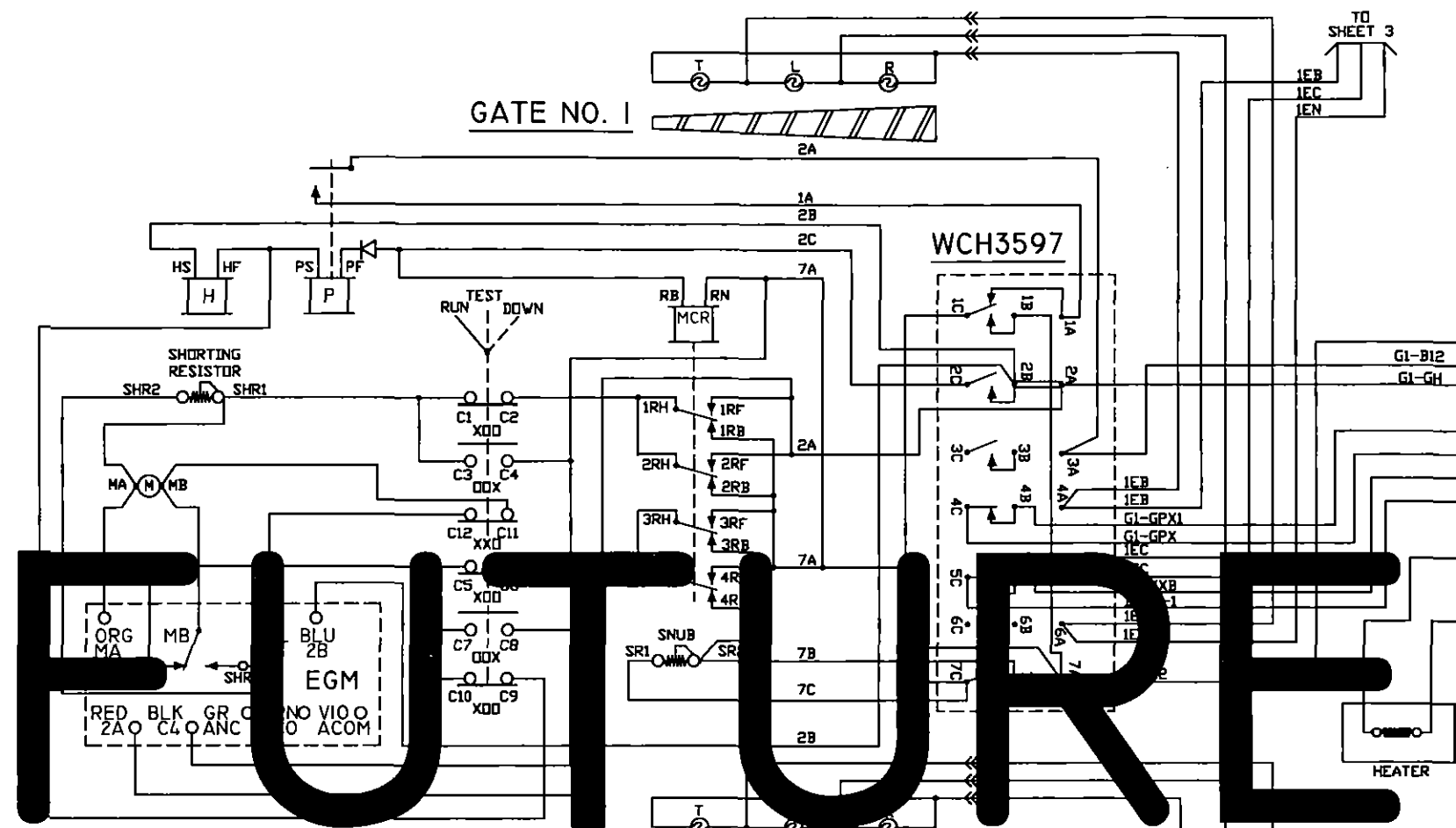
- NOTES:
1. ALL WIRE THIS SHEET IS #14 AWG FLEX UNLESS OTHERWISE NOTED.
 2. (T) DENOTES TWISTED PAIR.

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES	
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
DATE: 02/22/2022		REVISED:
SOUTH TENTH STREET DOT # 591 733Y - M.P. 0.81 SUNBURY, NORTHUMBERLAND COUNTY, PA		
CIRCUIT PLAN 'A'		DRAWING NUMBER 0.86

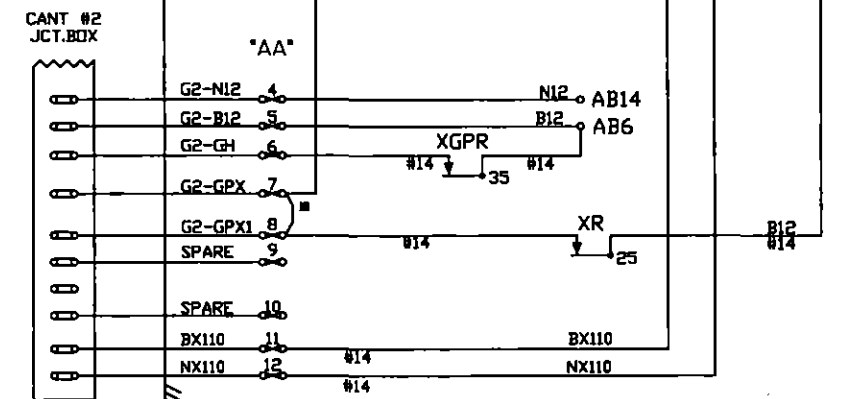
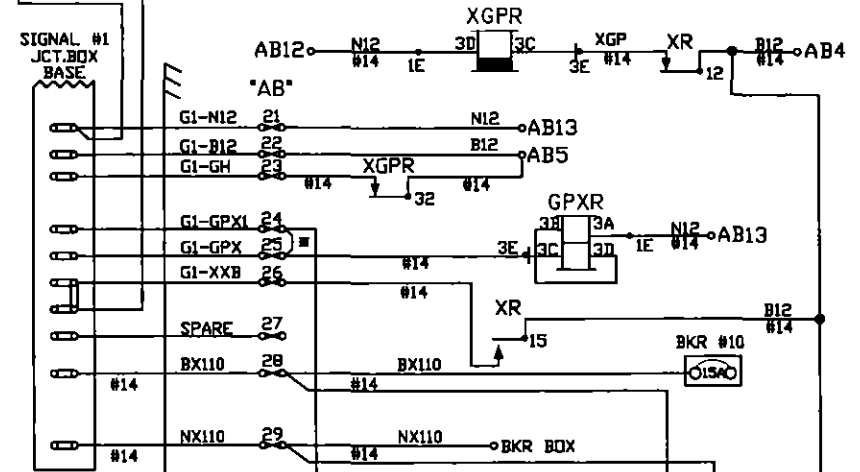


NOTE:
ALL WIRE THIS SHEET IS #10 AWG. FLEX
UNLESS OTHERWISE NOTED.

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 02/22/2022		REVISED:
SOUTH TENTH STREET DOT # 591 733Y - M.P. 0.81 SUNBURY, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN 'B'		DRAWING NUMBER 0.86	



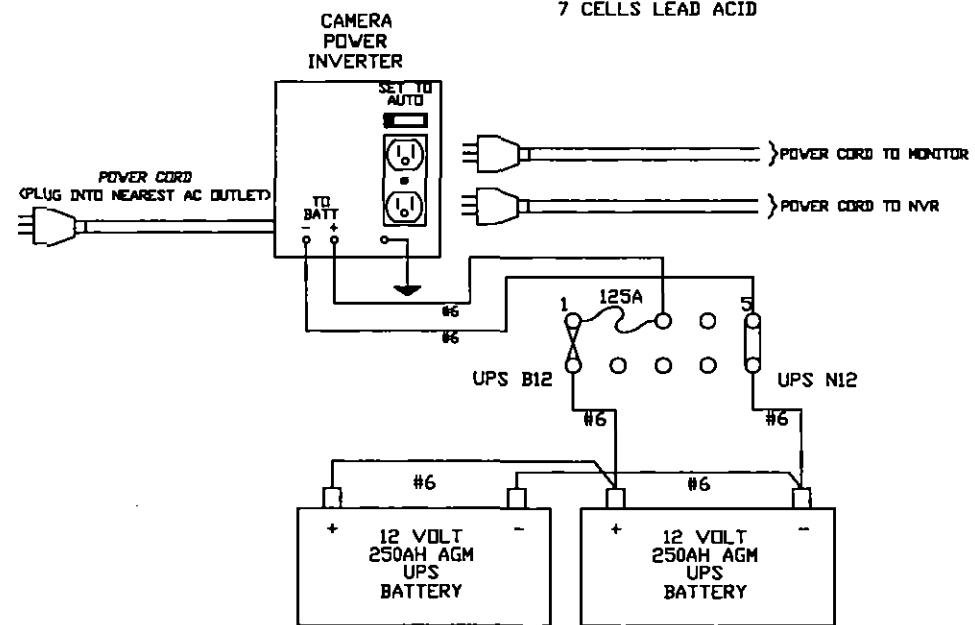
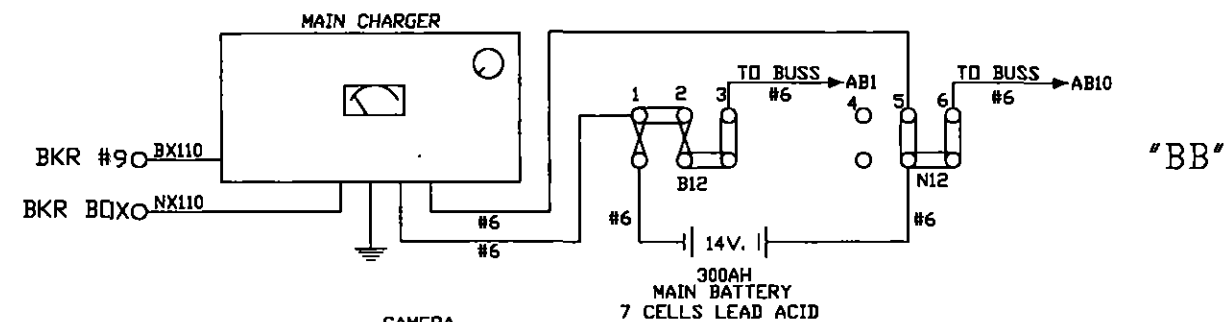
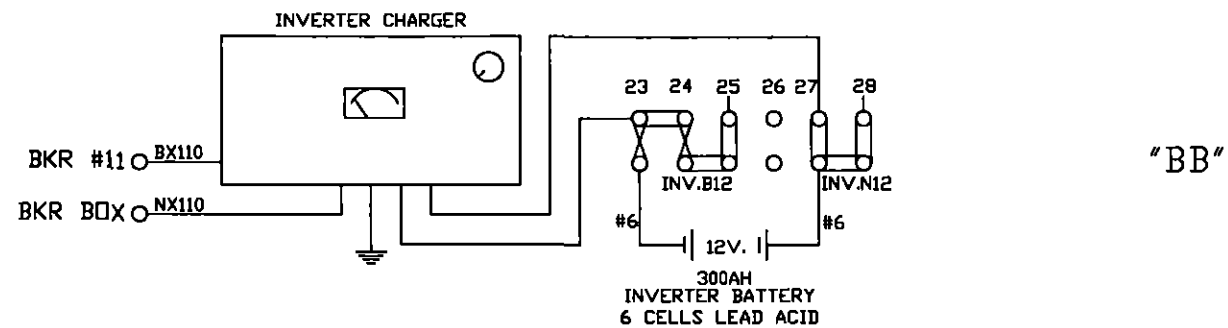
CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.



NOTES:
 ALL WIRE ON THIS SHEET IS #10AWG UNLESS OTHERWISE NOTED.
 * = TEMPORARY "GATE READY" JUMPER.

FUTURE GATES

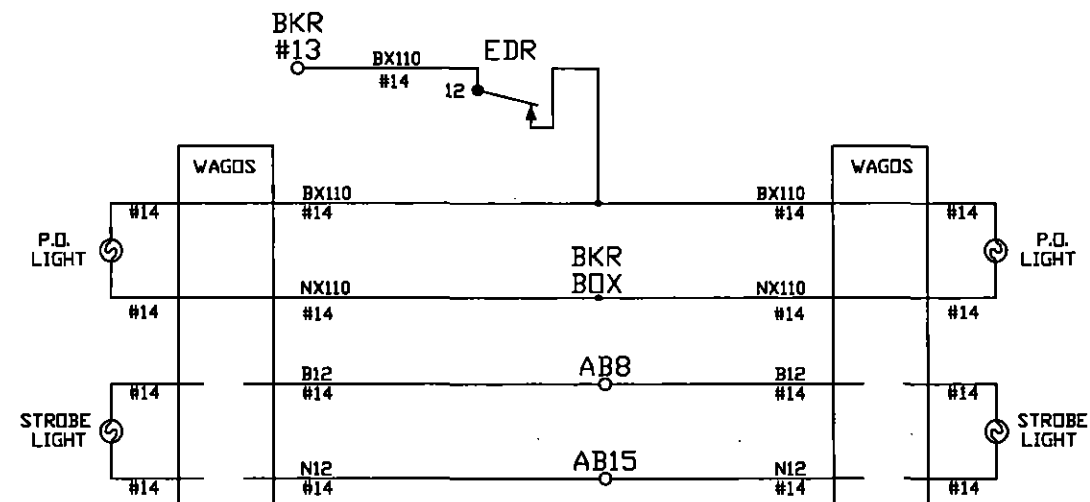
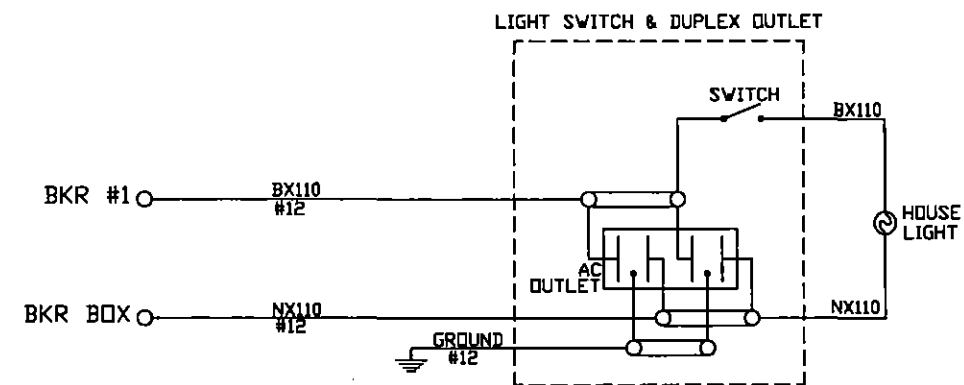
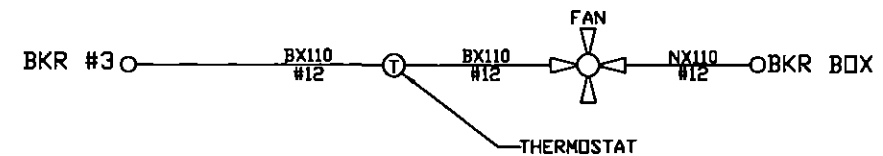
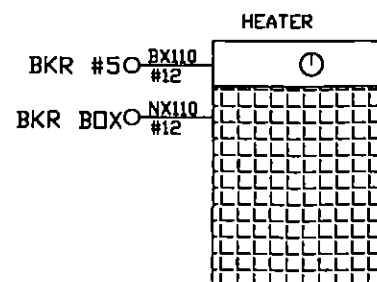
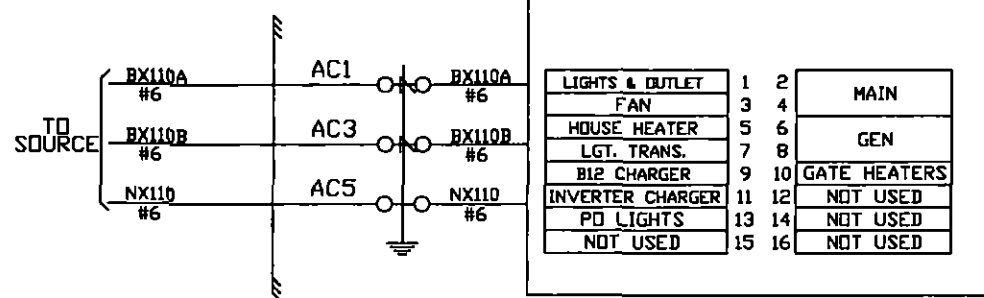
DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 02/22/2022		REVISED:
SOUTH TENTH STREET DOT # 591 733Y - M.P. 0.81 SUNBURY, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN "C"		DRAWING NUMBER 0.86	



"CB"

ERICO EPD 120/240 VENT FAN THERMOSTAT

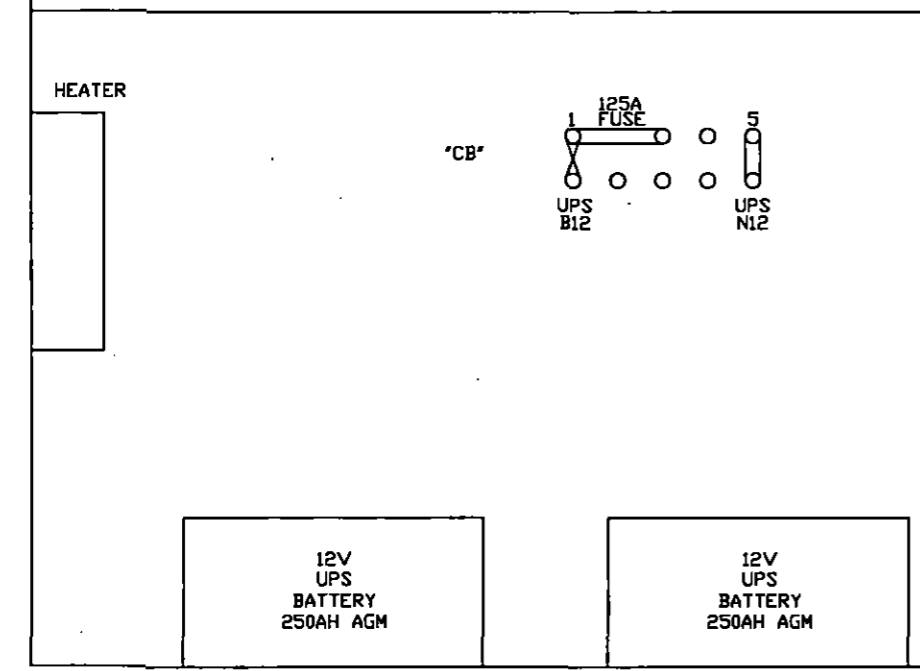
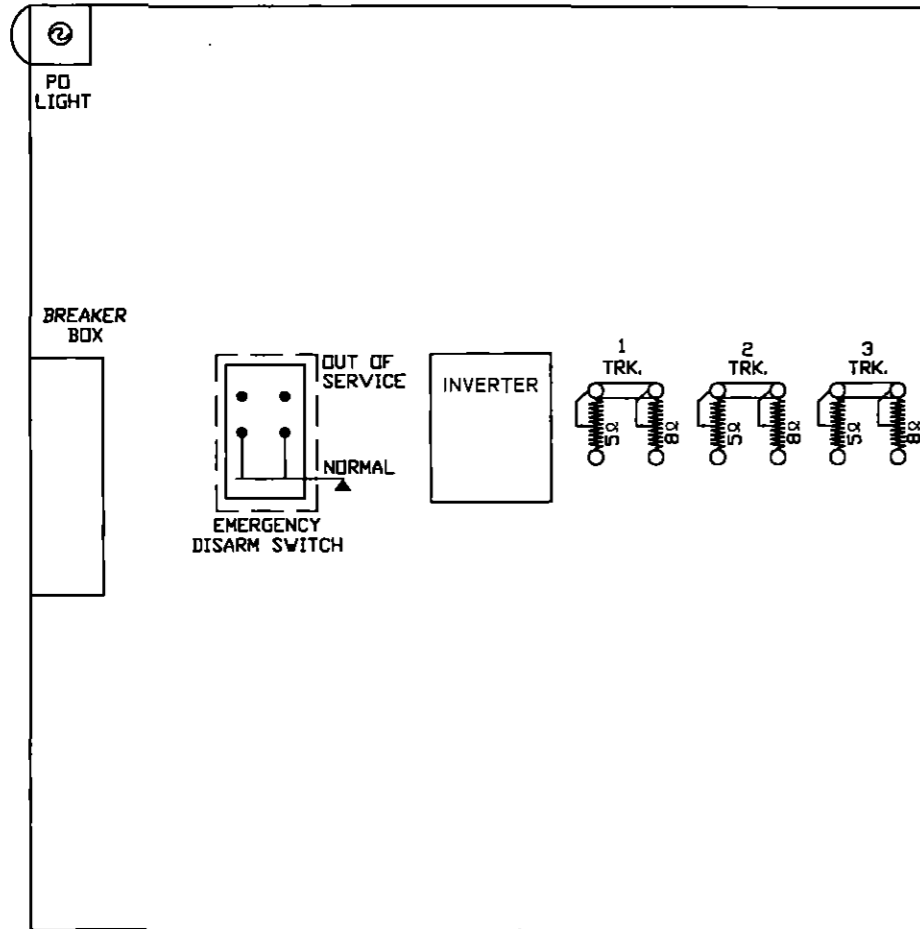
BREAKER BOX



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

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 02/22/2022		REVISED:
SOUTH TENTH STREET DOT # 591 733Y - M.P. 0.81 SUNBURY, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN 'D'		DRAWING NUMBER 0.86	

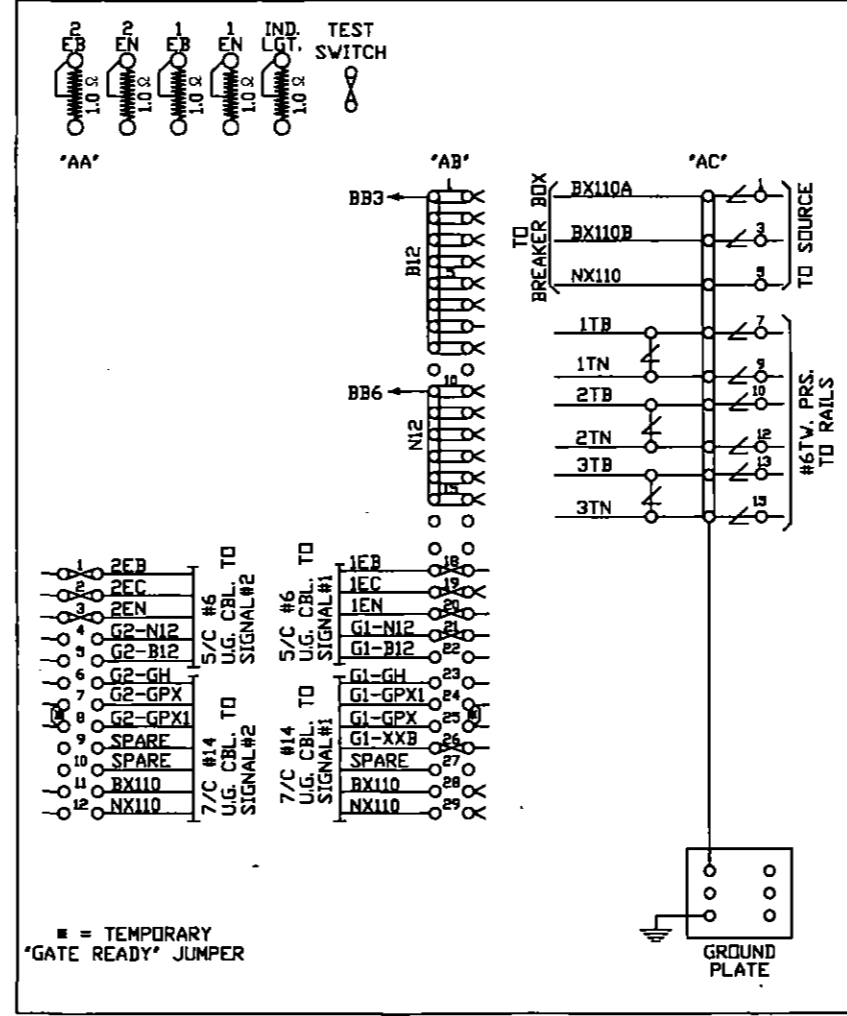
SIDE "C"



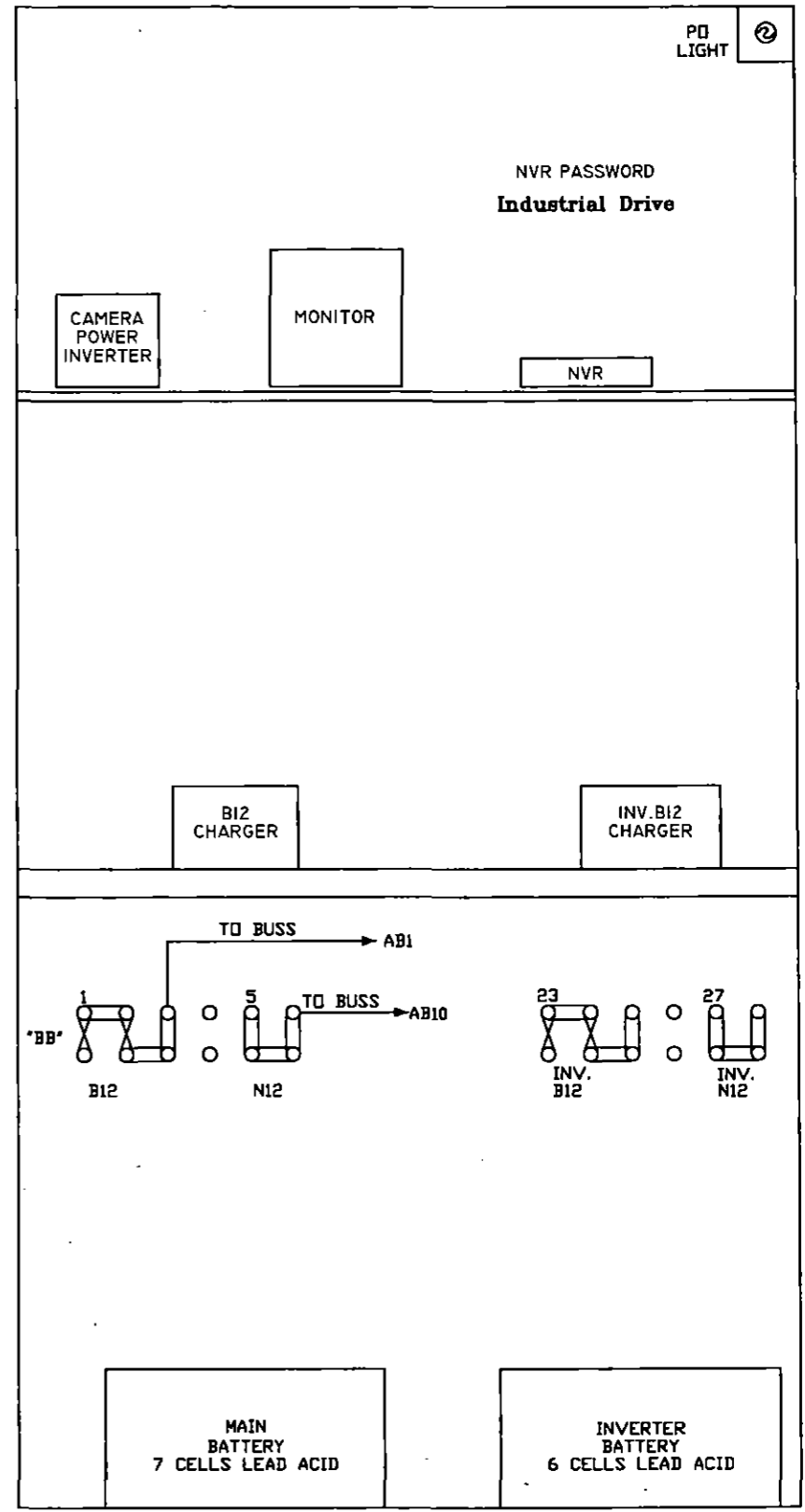
SIDE "A"

LIGHT TRANS.	POR	EOR	GPXR	XR	XGPR	EDR
	12 FB	12 FB	12 B	12 F	12	12 B
15 FB	15 FB	15 B	15	15	15	
22	32 FB	22 B	22	32 F	22	
25	35 FB	23	25 F	35 F	25 F	
32 FB		25	32		32 B	
35 FB		35	35 B		35	
	A62-406	A62-671	A62-310	A62-262	A62-360	A62-262
	400800	400700-X	400020	400000	400200	400000

SR	TR	2 TR	3 TR	5 TPR	3 TPR	3 SR	SLT-000 STICK RELEASE TIMER (10 MIN)
15	F	15 FB	15 FB	15 F	15 F	15 F	
22	B	22	22 B	22 B	22 B	22 B	
23	B	23	23 F	23	23	23	
25	F	25 F	25 F	25 F	25 F	25 F	
32		32	32	32	32	32	
35	B	35 B	35	35 B	35 B	35 B	
	A62-357	A62-120	A62-120	A62-357	A62-357	A62-357	
	400211	400510	400510	400211	400211	400211	



SIDE "B"



AS WIRED AS INSTALLED

DIAMONDBACK SIGNAL

SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES

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

SCALE: NONE DATE: 02/22/2022 APPROVED BY: DRAWN BY: DBS REVISED:

SOUTH TENTH STREET DOT # 591 733Y - M.P. 0.81 SUNBURY, NORTHUMBERLAND COUNTY, PA

RELAY HOUSE LAYOUT DRAWING NUMBER 0.86

WEST

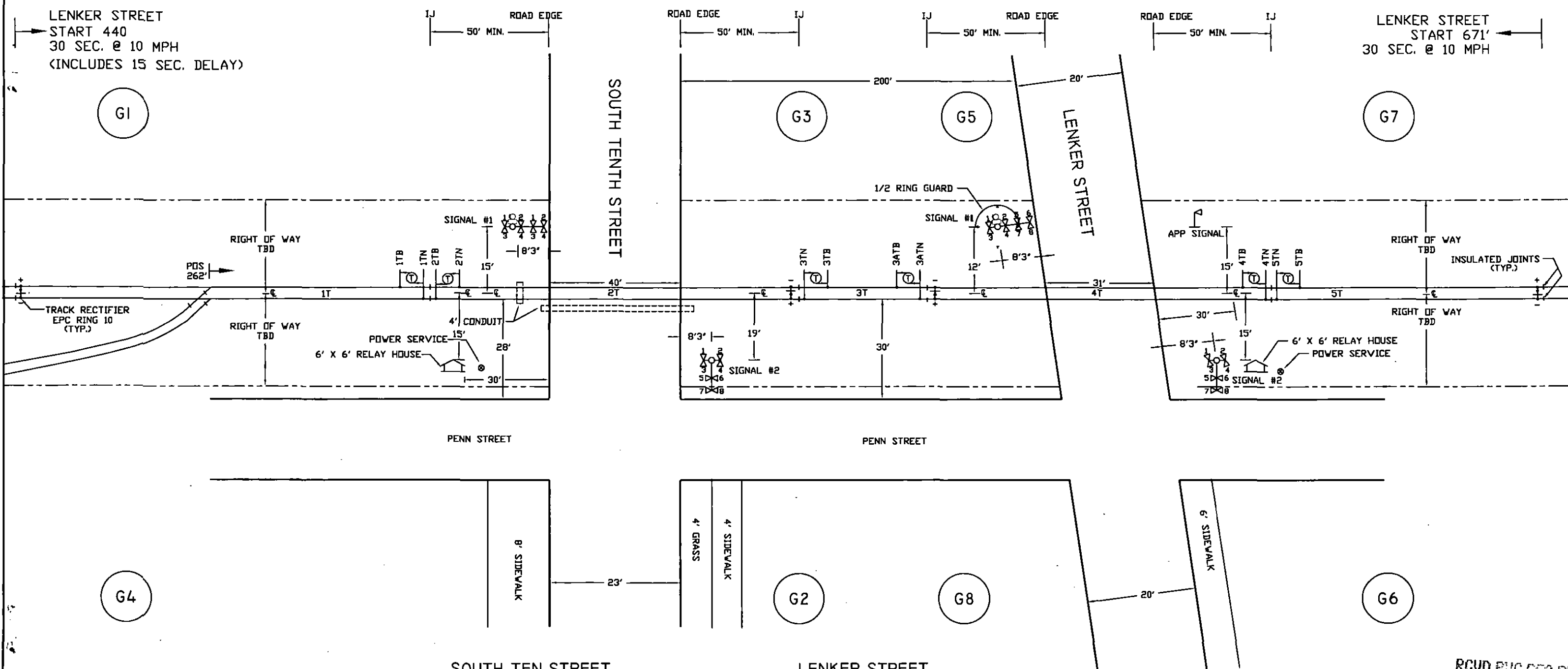
EAST

SOUTH TENTH STREET
START 680
30 SEC. @ 10 MPH

SOUTH TENTH STREET
START 440'
30 SEC. @ 10 MPH
(INCLUDES 15 SEC. DELAY)

LENKER STREET
START 440
30 SEC. @ 10 MPH
(INCLUDES 15 SEC. DELAY)

LENKER STREET
START 671'
30 SEC. @ 10 MPH



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. FLASHLIGHT SIGNALS & SIGNAL LIGHTS TO BE LIGHT EMITTING DIODE ASSEMBLIES, (LED).
4. BEWARE OF OVERHEAD WIRES WHEN SITING SIGNAL.
5. DENOTES TWIST PAIR.

SOUTH TEN STREET
CABLE RUN TABULATION

HOUSE TO SIGNAL #1	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO SIGNAL #2	- 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 TWISTED PAIR
HOUSE TO 2TN & 2TB	- 2/C #6 TWISTED PAIR
HOUSE TO 3TN & 3TB	- 2/C #6 TWISTED PAIR

LENKER STREET
CABLE RUN TABULATION

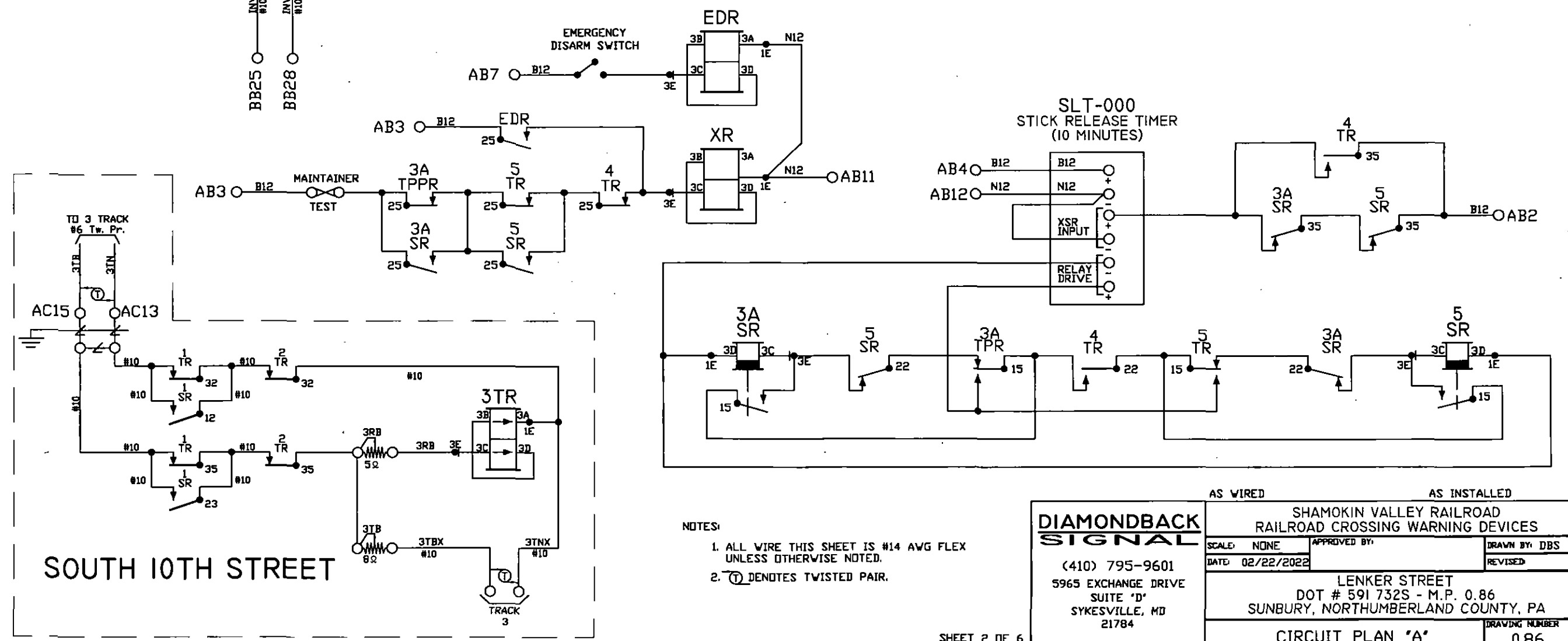
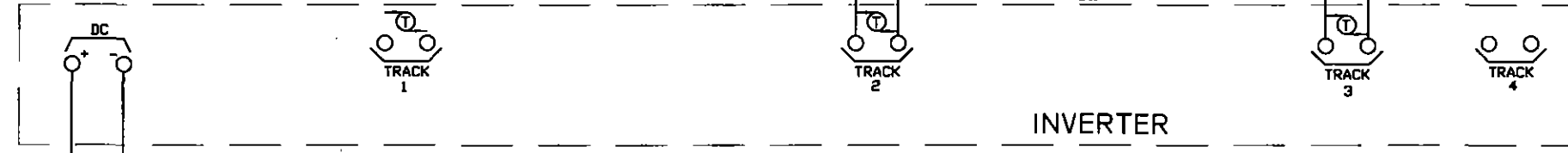
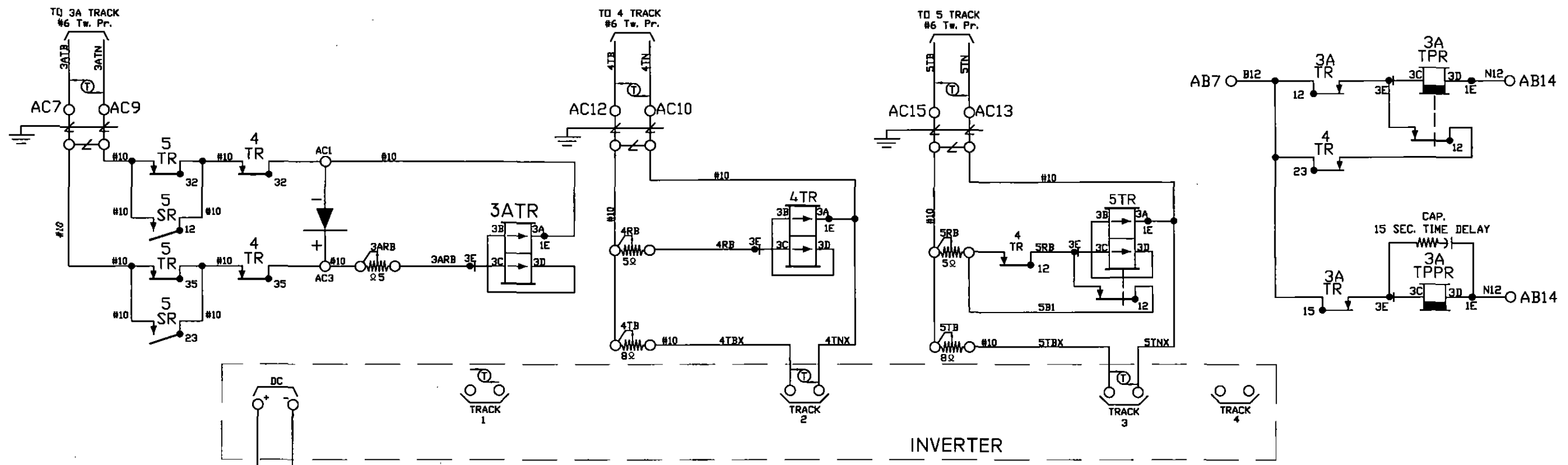
HOUSE TO SIGNAL #1	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO SIGNAL #2	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO AC SERVICE	- 3/C #9 UG CABLE
HOUSE TO 3ATN & 3ATB	- 2/C #6 TWISTED PAIR
HOUSE TO 4TN & 4TB	- 2/C #6 TWISTED PAIR
HOUSE TO 5TN & 5TB	- 2/C #6 TWISTED PAIR

RCVD PUC SEC B1
FEB 23 2023 PNC

DIAMONDBACK SIGNAL

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

AS WIRED		AS INSTALLED	
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 02/22/2022		REVISED:	
LENKER STREET DOT # 591 732S - M.P. 0.86 SUNBURY, NORTHUMBERLAND COUNTY, PA			
TRACK & CABLE PLAN			DRAWING NUMBER 0.86

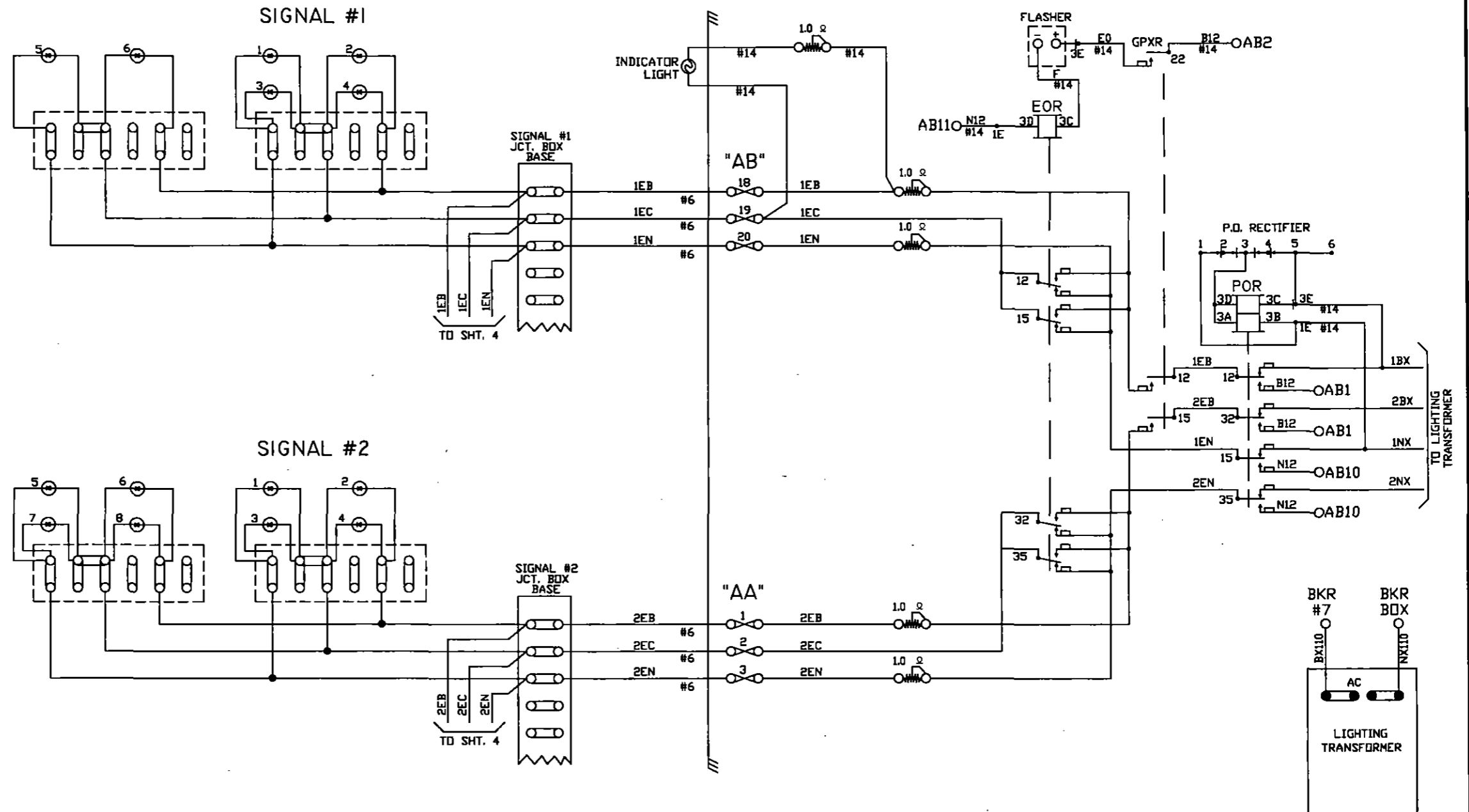


SOUTH 10TH STREET

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

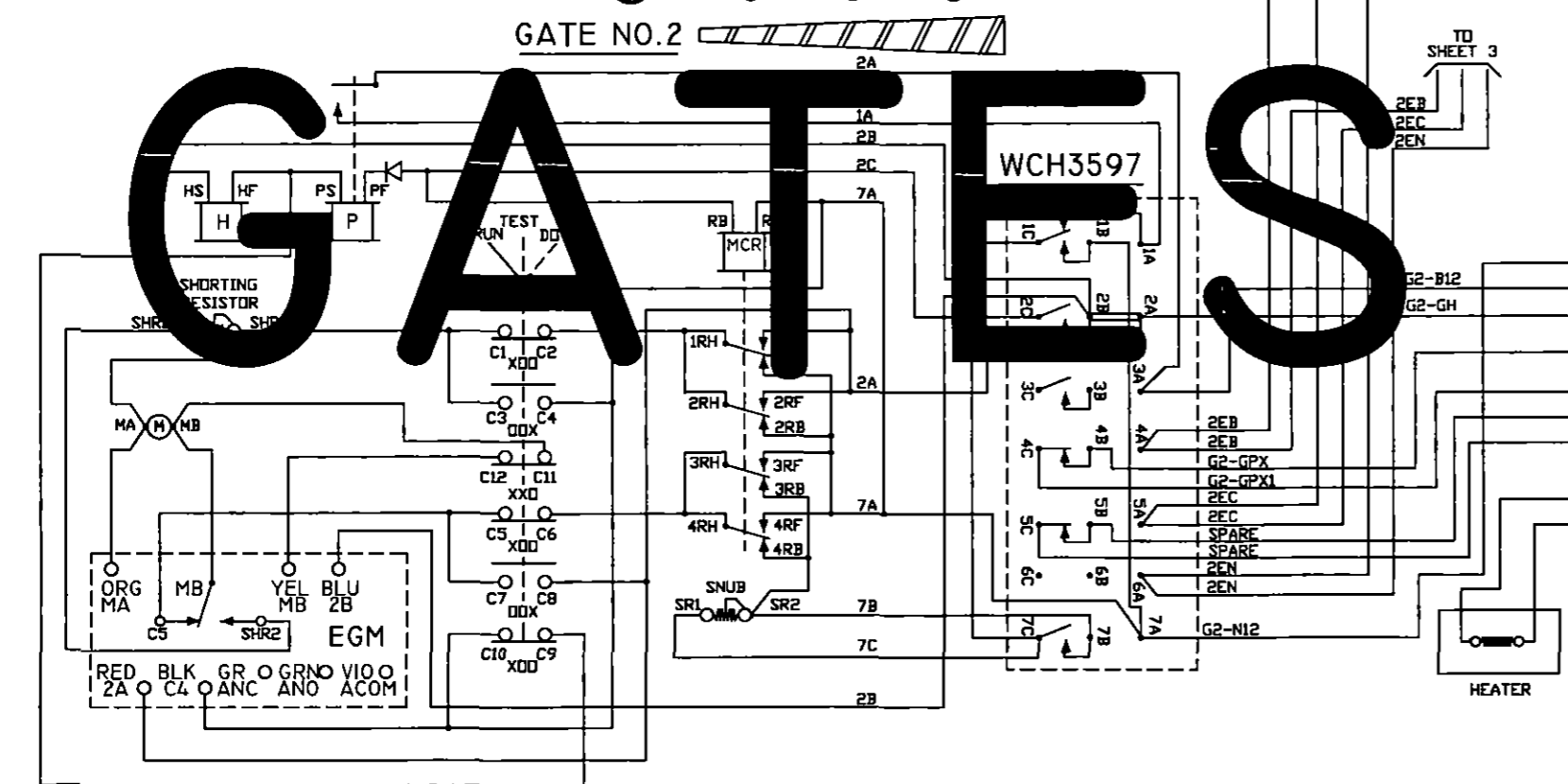
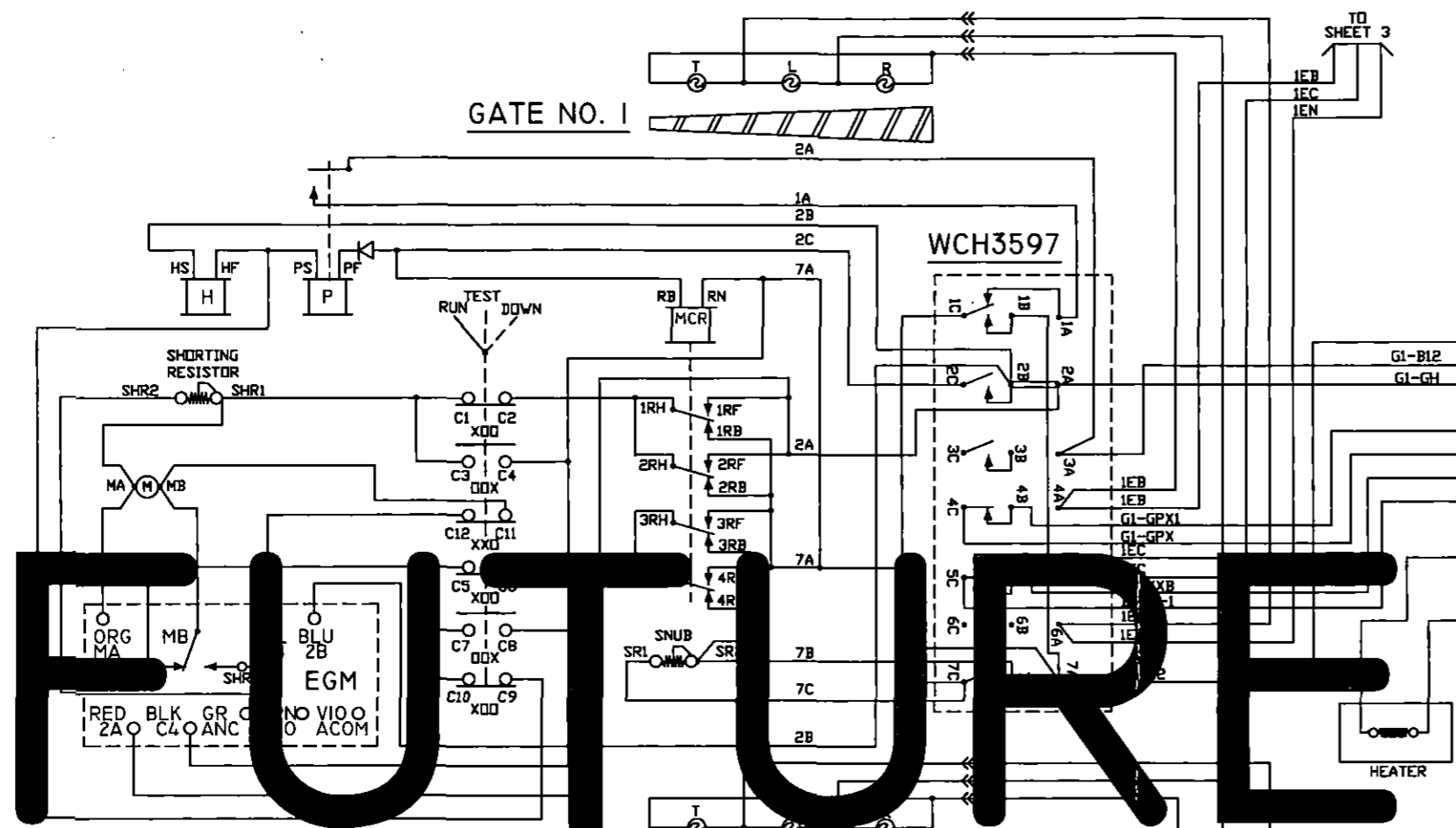
DIAMONDBACK SIGNAL
 (410) 795-9601
 5965 EXCHANGE DRIVE
 SUITE 'D'
 SYKESVILLE, MD
 21784

AS WIRED		AS INSTALLED	
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 02/22/2022		REVISED:	
LENKER STREET DOT # 591 732S - M.P. 0.86 SUNBURY, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN 'A'			DRAWING NUMBER 0.86

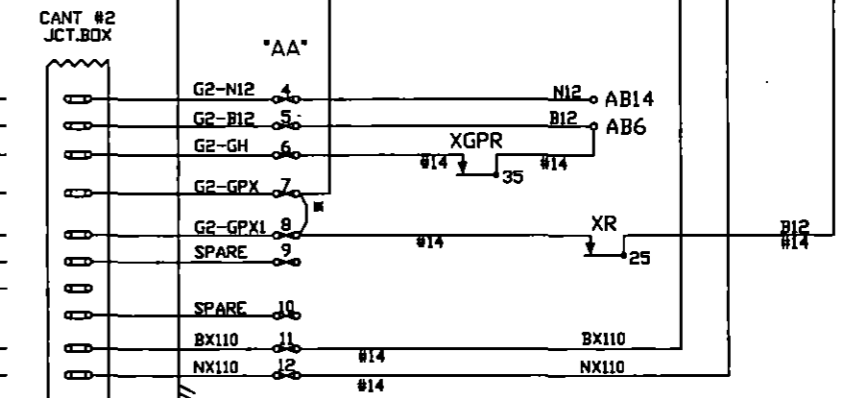
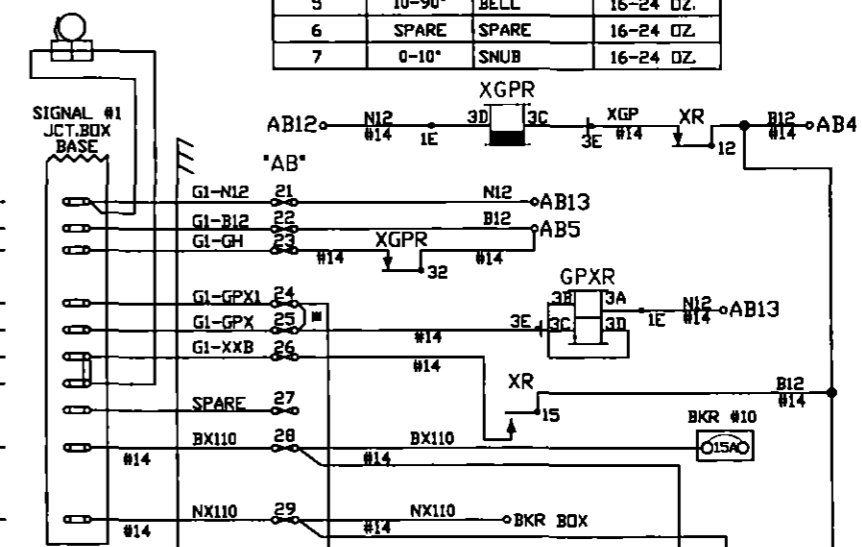


NOTE:
ALL WIRE THIS SHEET IS #10 AWG. FLEX
UNLESS OTHERWISE NOTED.

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 02/22/2022		REVISED:
LENKER STREET DOT # 591 732S - M.P. 0.86 SUNBURY, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN 'B'		DRAWING NUMBER 0.86	



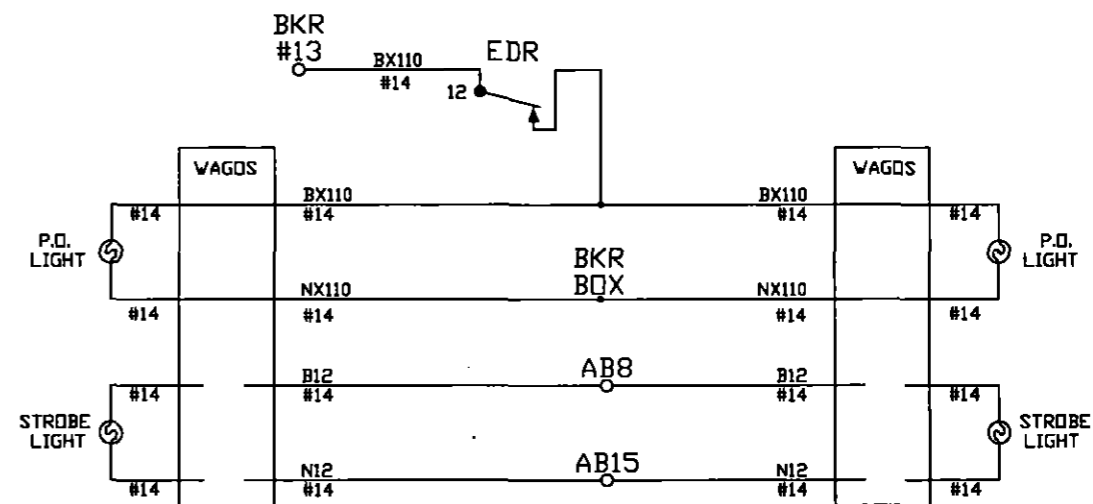
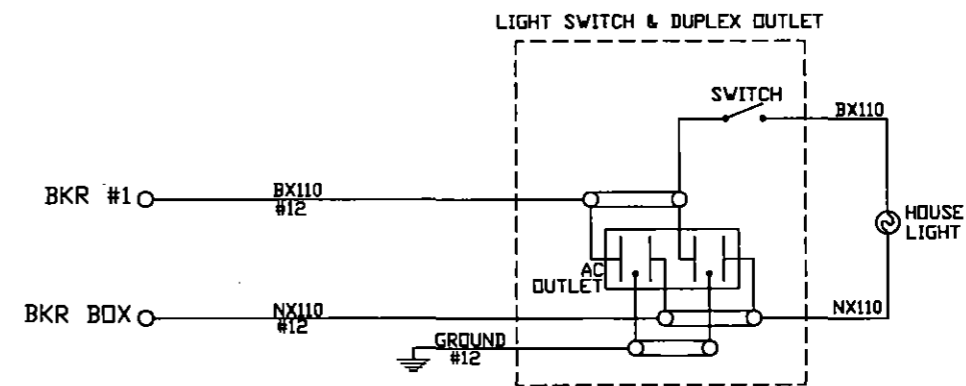
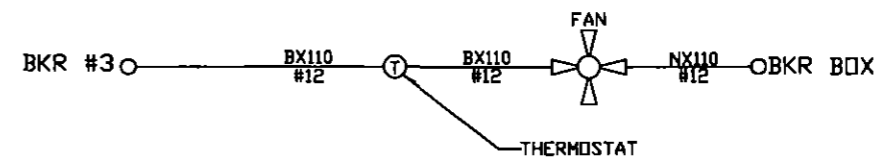
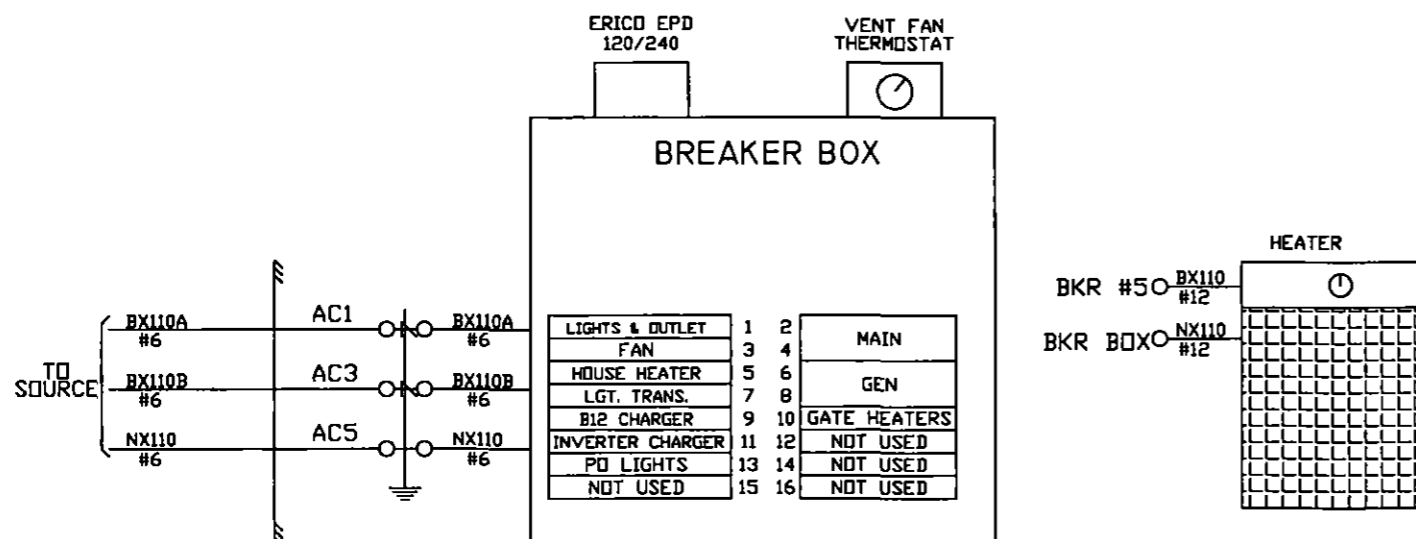
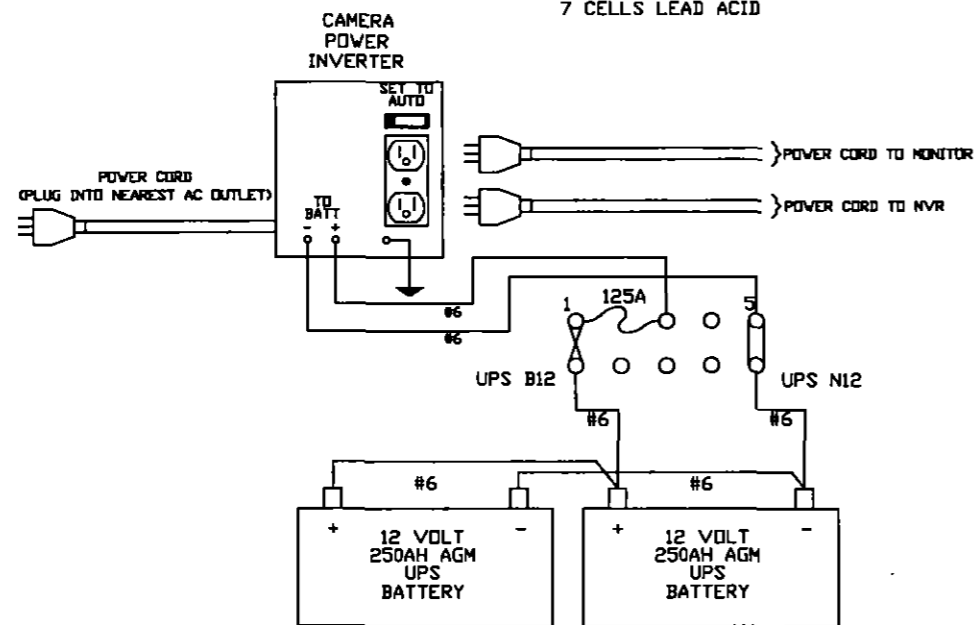
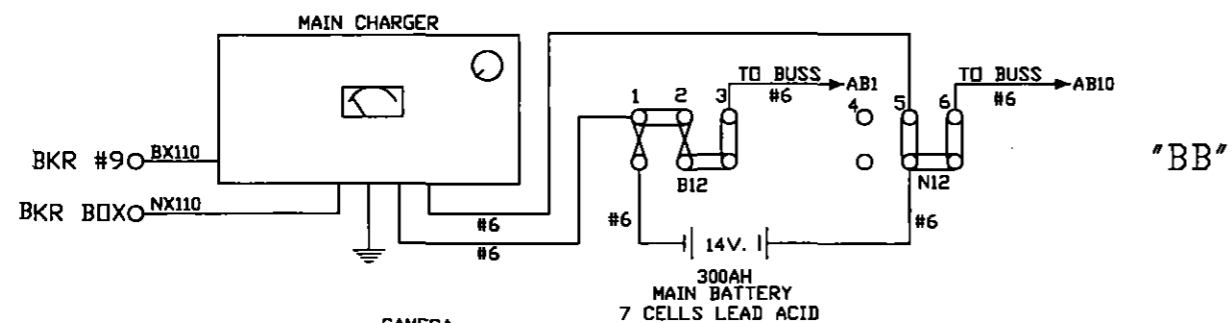
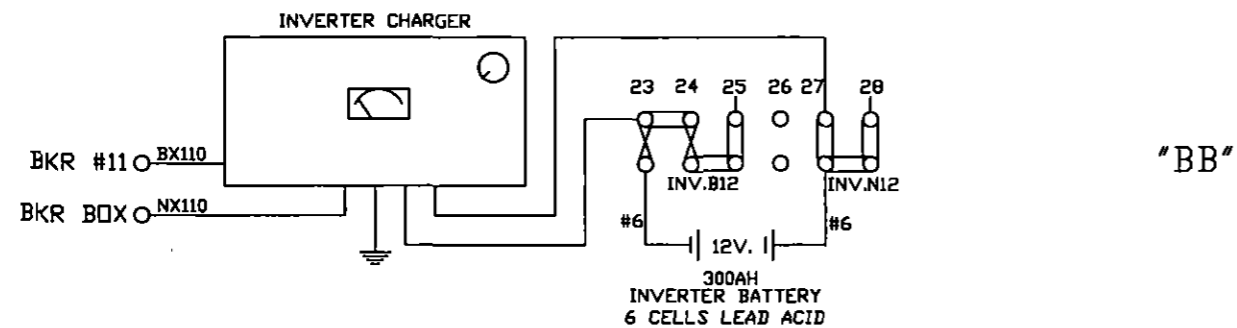
CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.



NOTES:
 ALL WIRE ON THIS SHEET IS #10AWG UNLESS OTHERWISE NOTED.
 * = TEMPORARY 'GATE READY' JUMPER.

FUTURE GATES

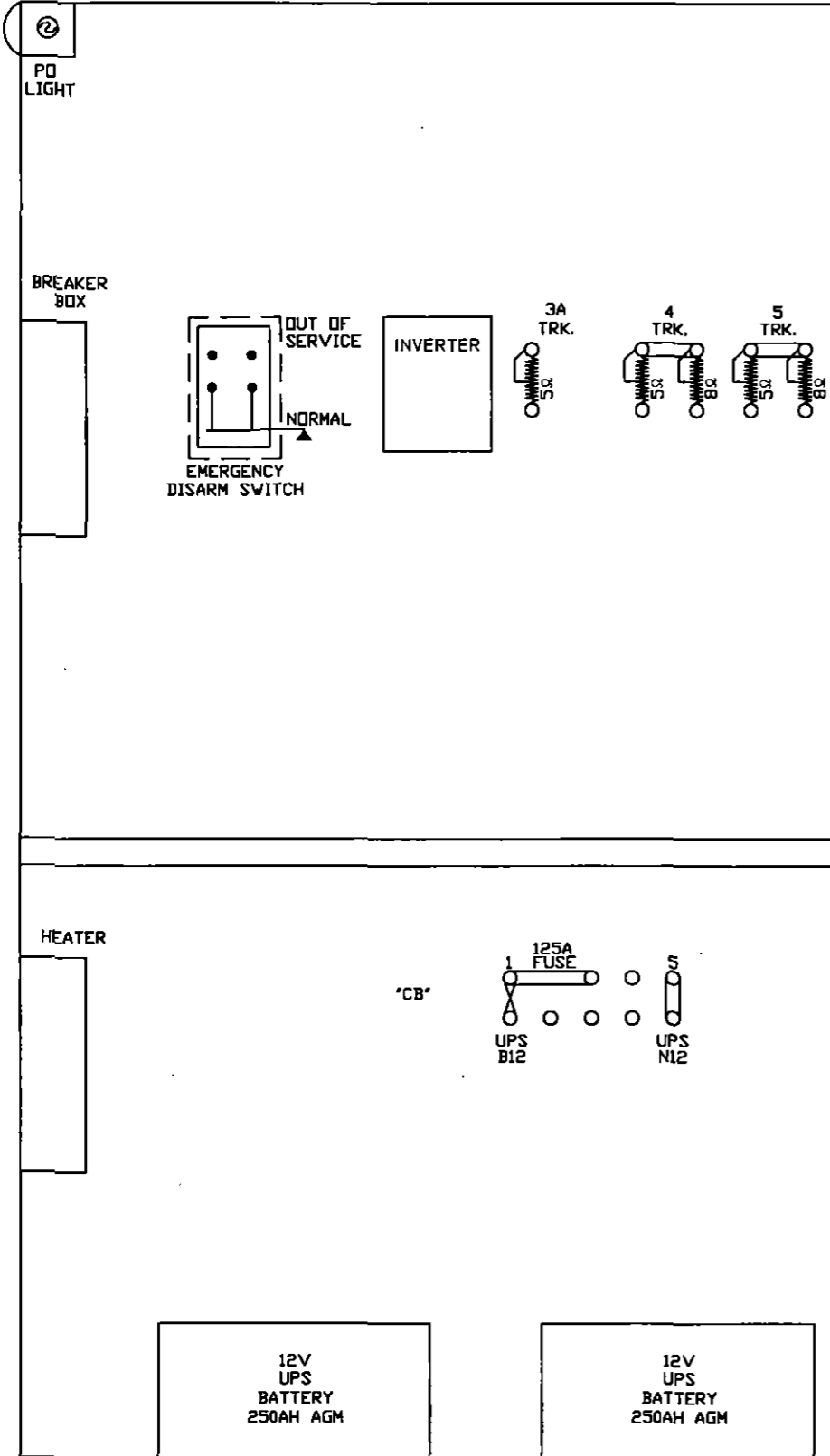
DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 02/22/2022		REVISED:
LENKER STREET DOT # 591 732S - M.P. 0.86 SUNBURY, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN 'C'		DRAWING NUMBER 0.86	



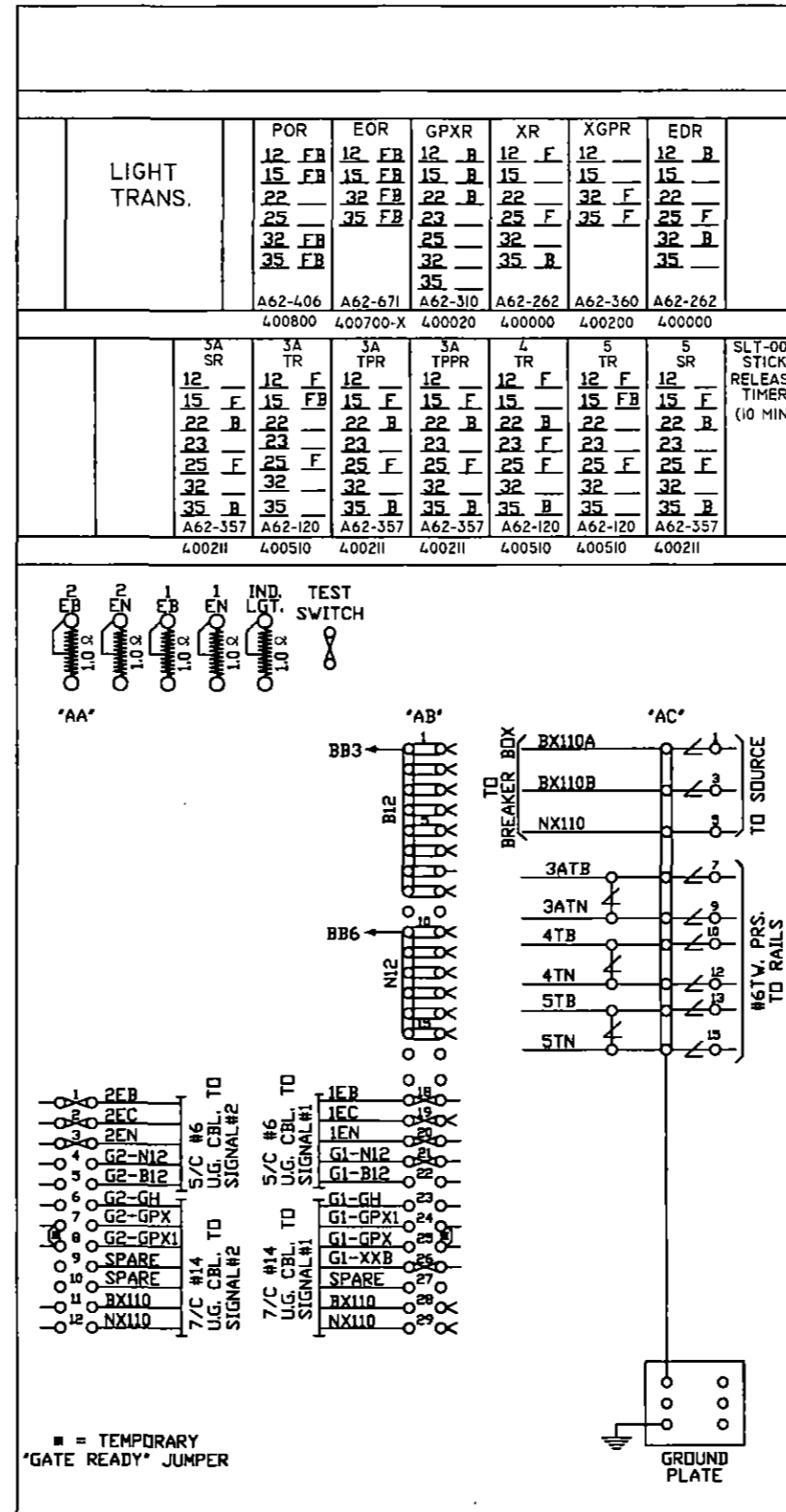
NOTE
ALL WIRE THIS SHEET IS #10 AWG FLEX
UNLESS OTHERWISE NOTED.

DIAMONDBACK SIGNAL	AS WIRED	AS INSTALLED
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES	
(410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	SCALE: NONE DATE: 02/22/2022	APPROVED BY: DRAWN BY: DBS REVISED:
LENKER STREET DOT # 591 732S - M.P. 0.86 SUNBURY, NORTHUMBERLAND COUNTY, PA		DRAWING NUMBER 0.86
CIRCUIT PLAN 'D'		

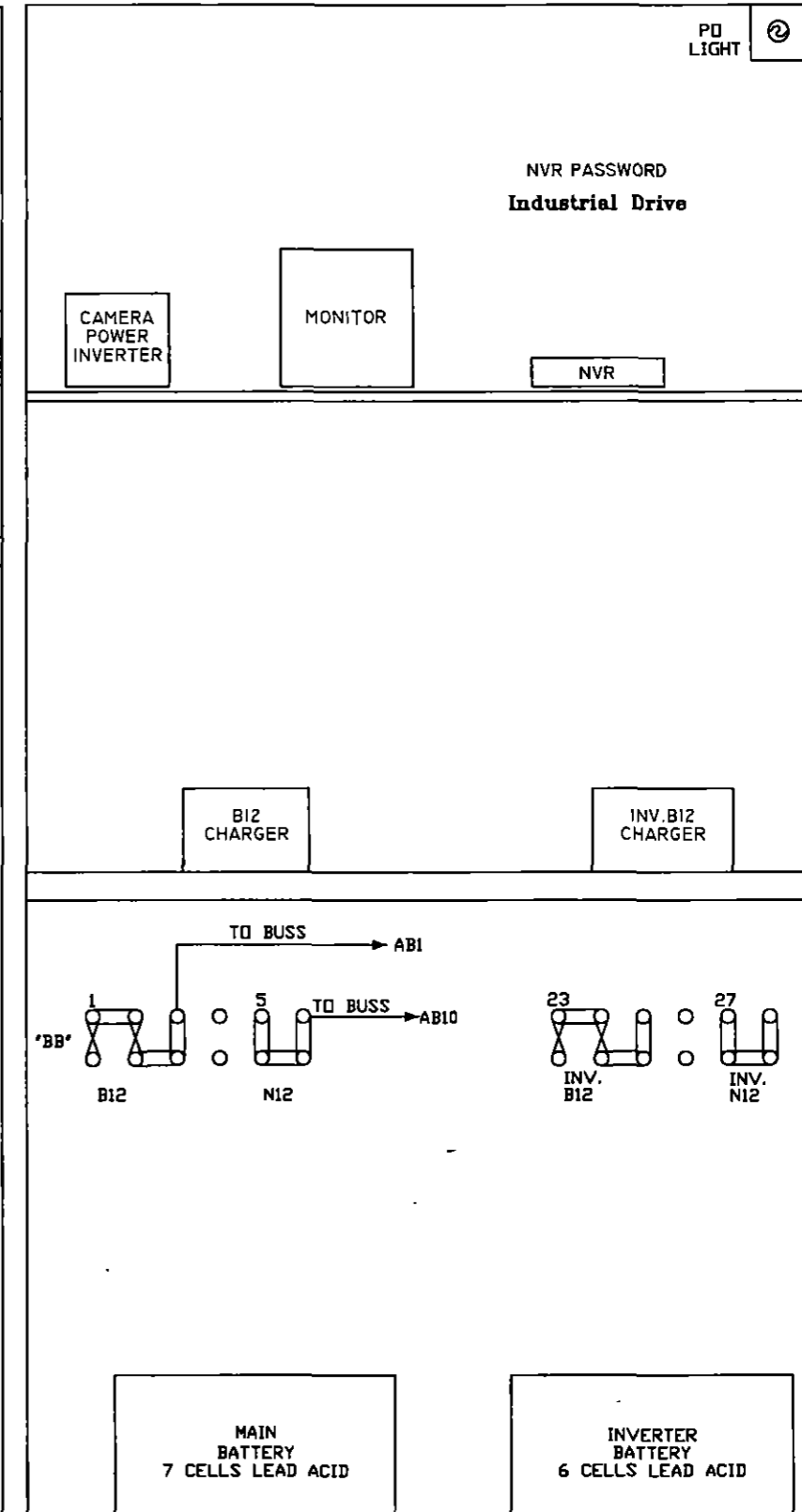
SIDE "C"



SIDE "A"



SIDE "B"



DIAMONDBACK SIGNAL

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

AS WIRED

AS INSTALLED

SHAMOKIN VALLEY RAILROAD
RAILROAD CROSSING WARNING DEVICES

SCALE: NONE APPROVED BY: DRAWN BY: DBS
DATE: 02/22/2022 REVISED:

LENKER STREET
DOT # 591 732S - M.P. 0.86
SUNBURY, NORTHUMBERLAND COUNTY, PA

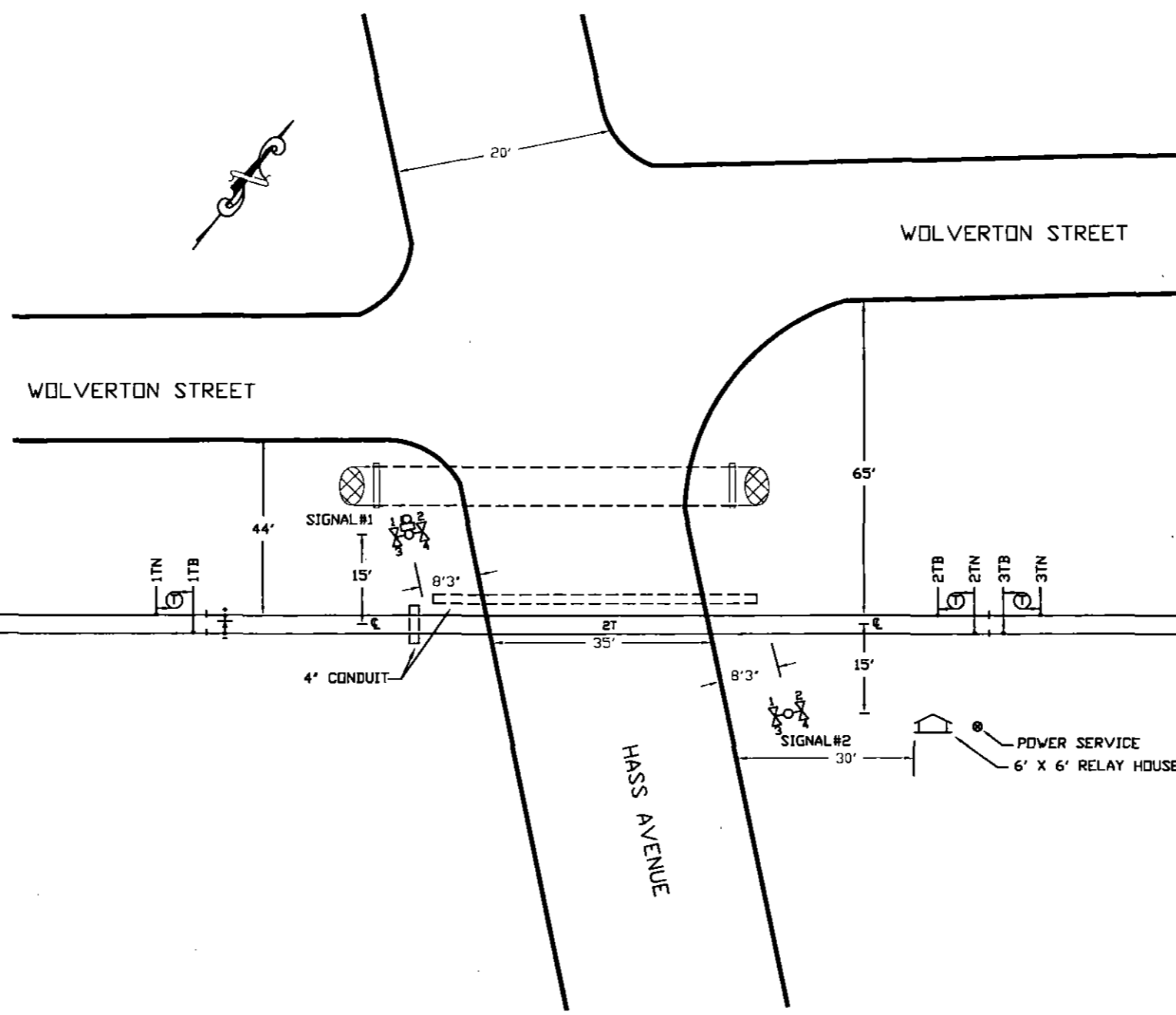
RELAY HOUSE LAYOUT DRAWING NUMBER 0.86

WEST ←

→ EAST

HASS AVENUE
START 440'
30 SECS. @ 10 MPH

HASS AVENUE
START 440'
30 SECS. @ 10 MPH



TRACK RECTIFIER
EPC RING 10
(TYP.)
INSULATED JOINTS

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. FLASHLIGHT SIGNALS & GATE LIGHTS TO BE LIGHT EMITTING DIODE ASSEMBLIES, (LED).
4. (T) DENOTES TWIST PAIR.

CABLE RUN TABULATION

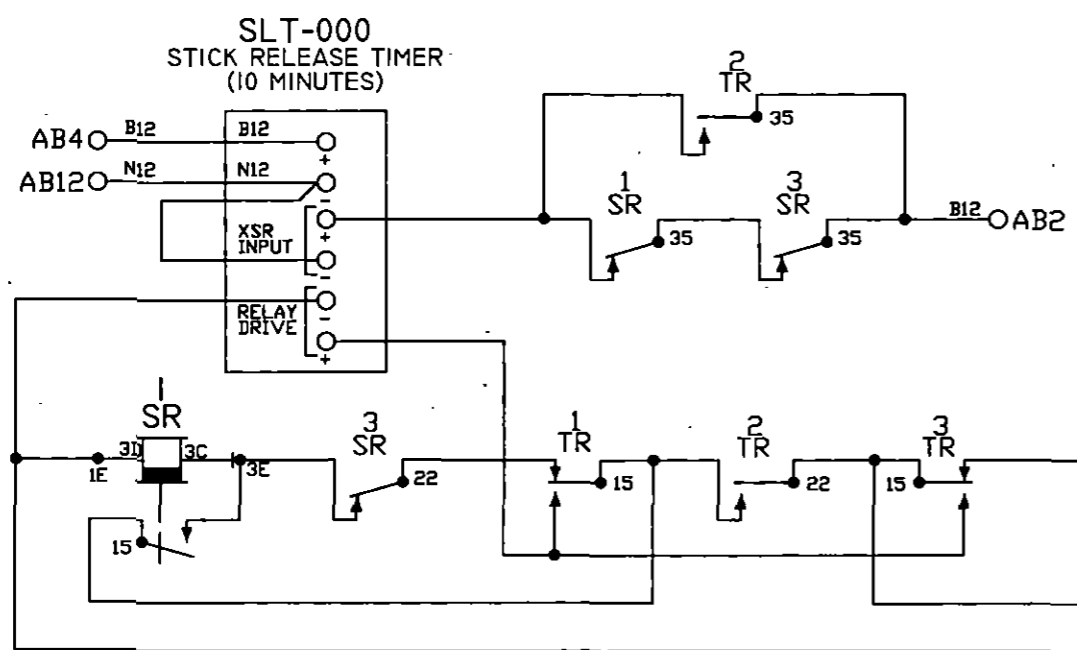
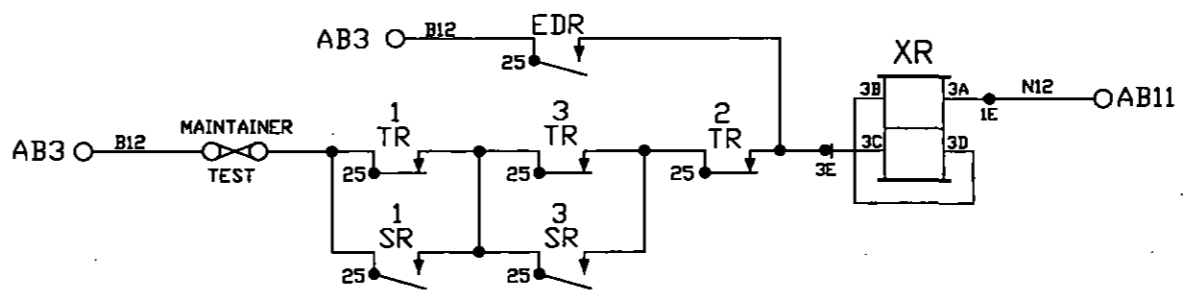
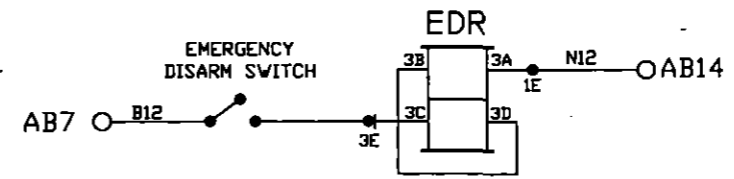
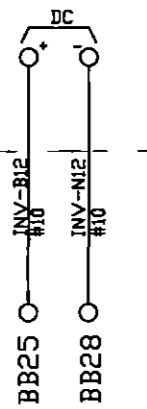
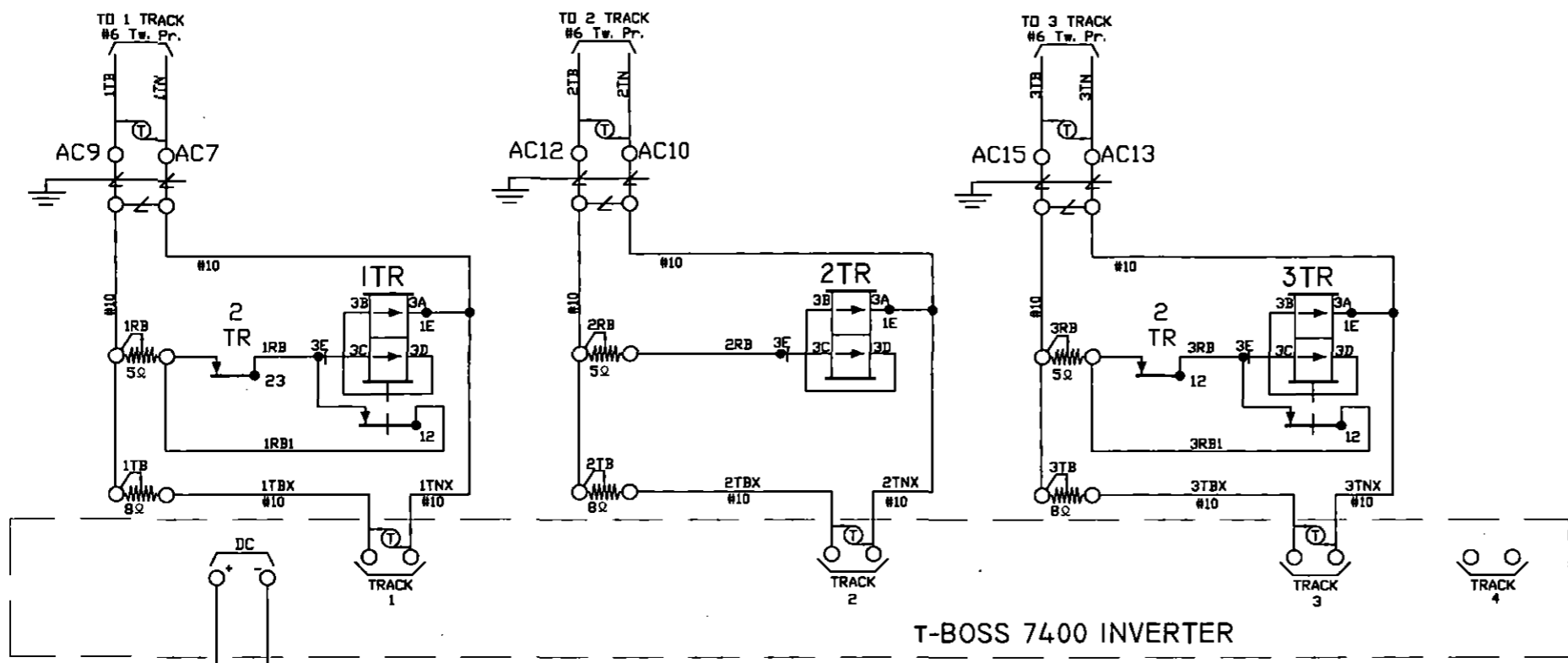
HOUSE TO SIGNAL #1	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO SIGNAL #2	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO AC SERVICE	- 3/C #9 UG CABLE
HOUSE TO 1TN & 1TB	- 2/C #6 TWISTED PAIR
HOUSE TO 2TN & 2TB	- 2/C #6 TWISTED PAIR
HOUSE TO 3TN & 3TB	- 2/C #6 TWISTED PAIR

RCVD PUC SEC BUR
FEE 23 2023 AM 10:50

DIAMONDBACK SIGNAL

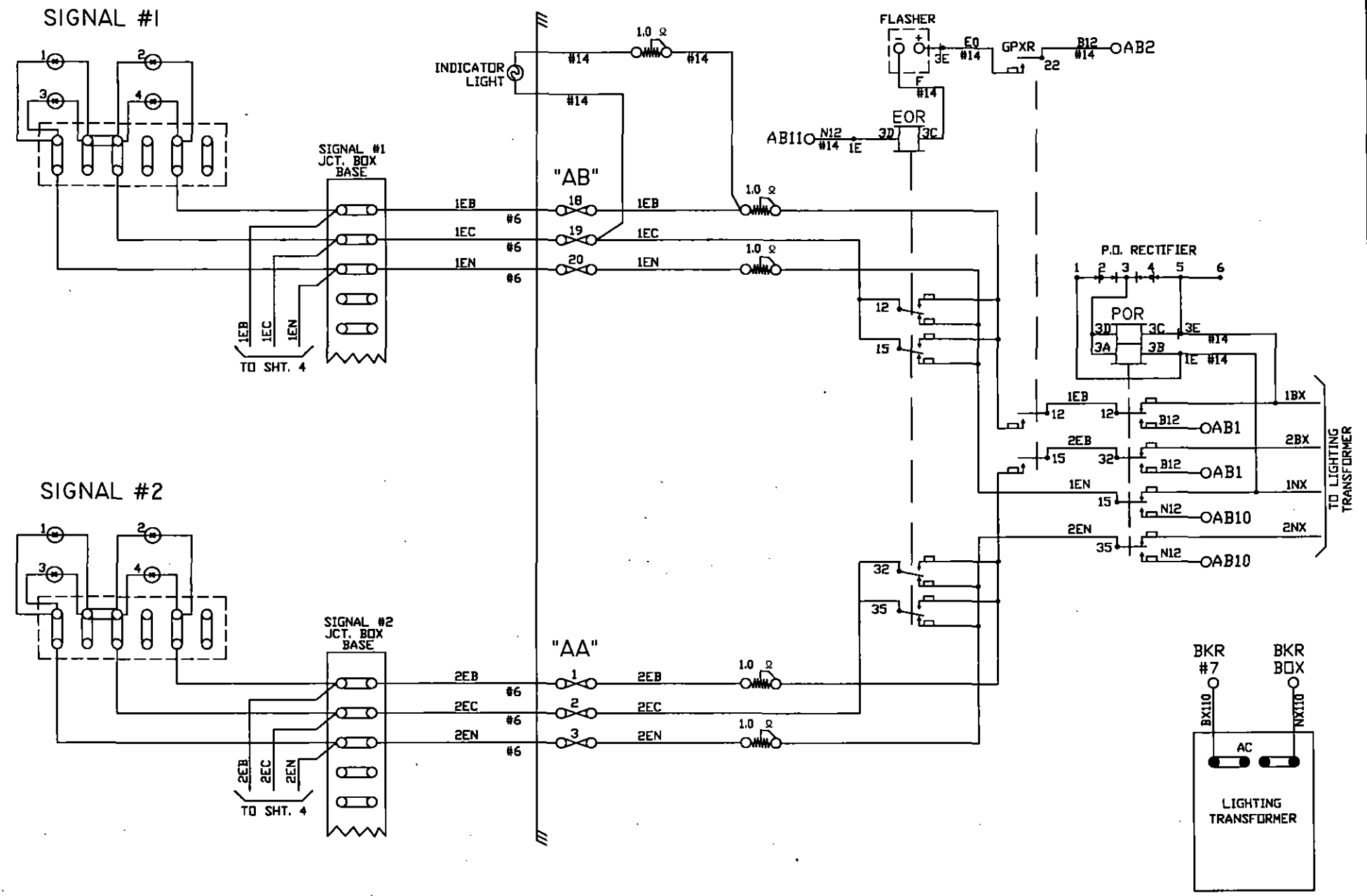
(410) 795-9601
5965 EXCHANGE DRIVE
SUITE 'D'
SYKESVILLE, MD
21784

AS WIRED		AS INSTALLED	
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 03/01/2022		REVISED:	
HASS AVE - DOT # 591 731K - M.P. 1.18 SUNBURY, NORTHUMBERLAND COUNTY, PA			
TRACK & CABLE PLAN			DRAWING NUMBER: 1.18



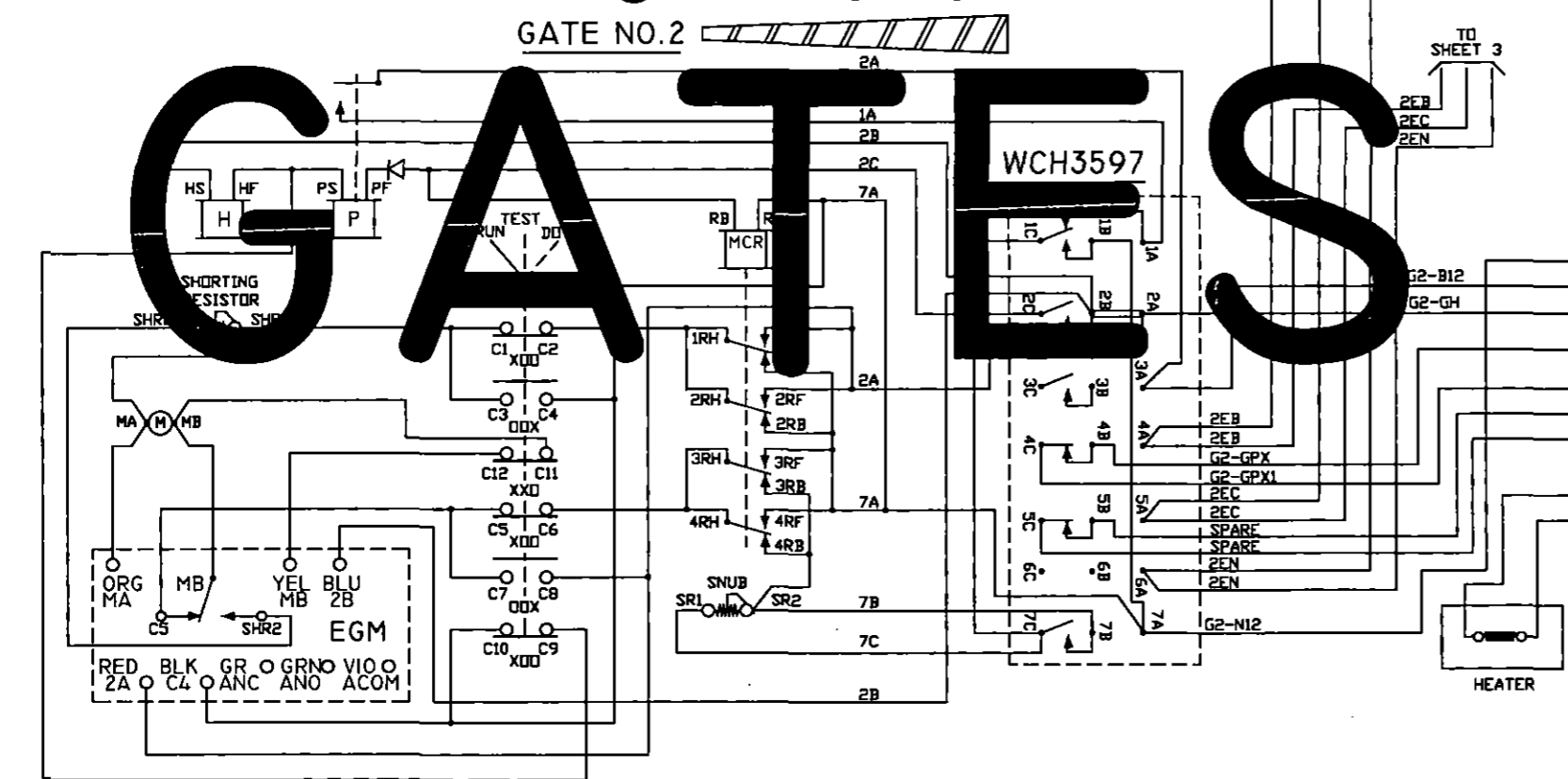
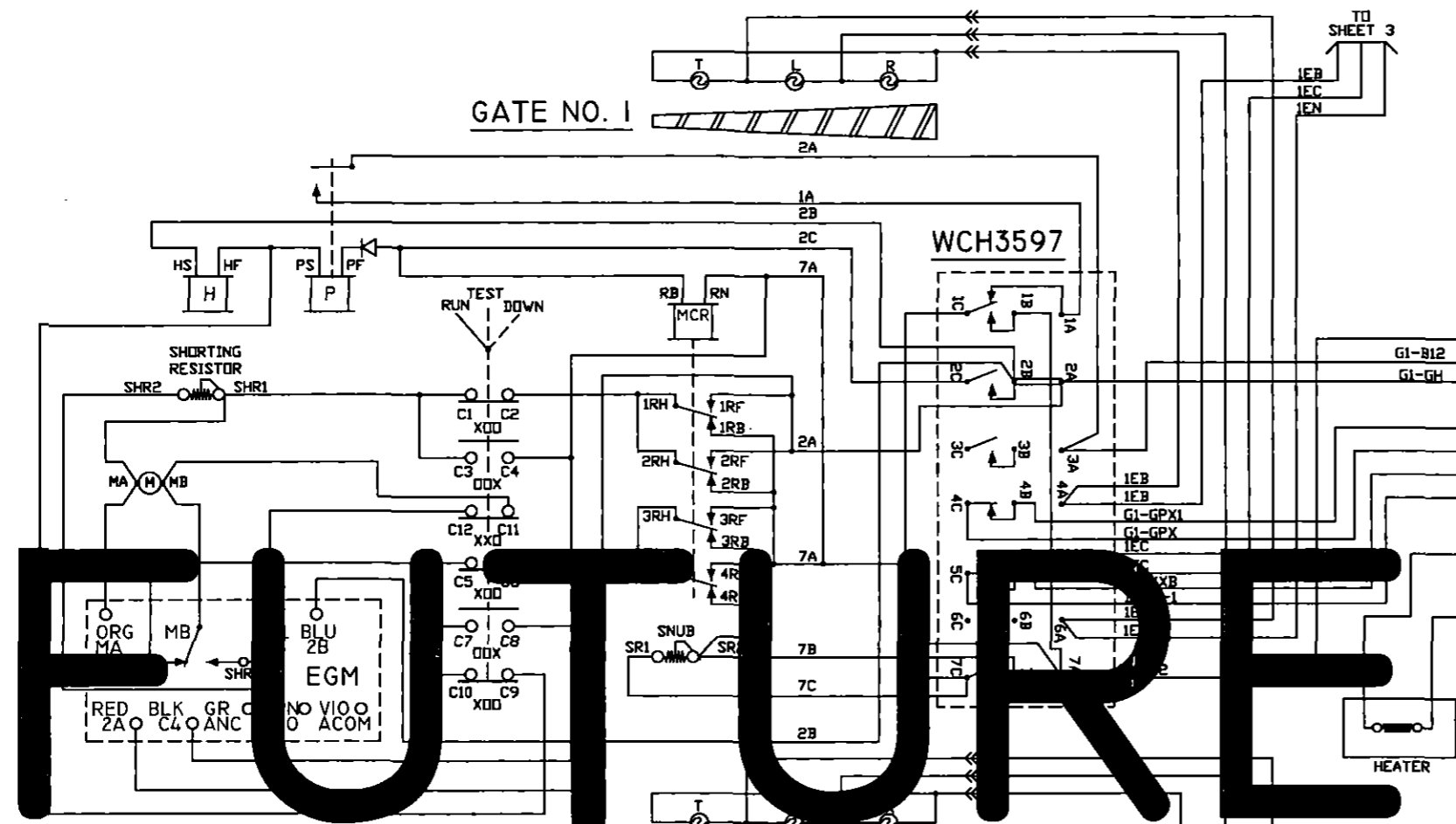
- NOTES:
1. ALL WIRE THIS SHEET IS #14 AWG FLEX UNLESS OTHERWISE NOTED.
 2. (TW) DENOTES TWISTED PAIR.

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 03/01/2022		REVISED:
HASS AVE - DOT # 591 731K - M.P. 1.18 SUNBURY, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN 'A'		DRAWING NUMBER 1.18	

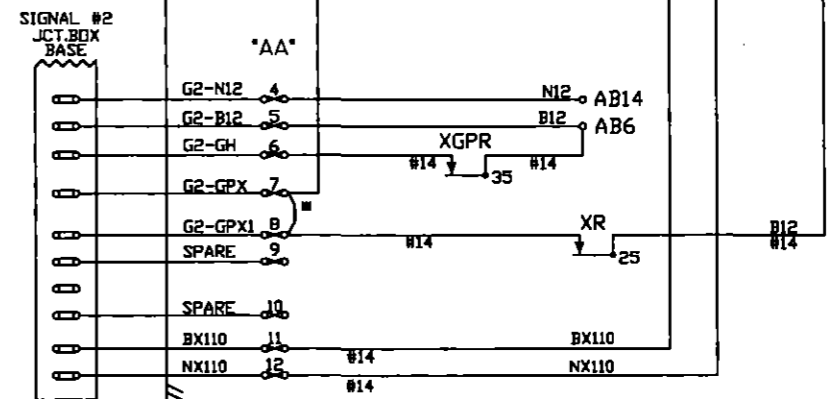
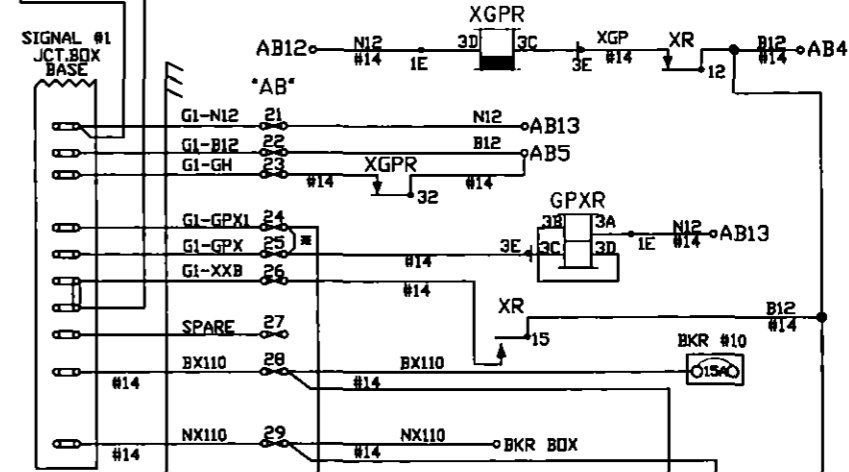


NOTE:
ALL WIRE THIS SHEET IS #10 AWG. FLEX
UNLESS OTHERWISE NOTED.

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 03/01/2022		REVISED:
HASS AVE - DOT # 591 731K - M.P. 1.18 SUNBURY, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN "B"		DRAWING NUMBER 1.18	



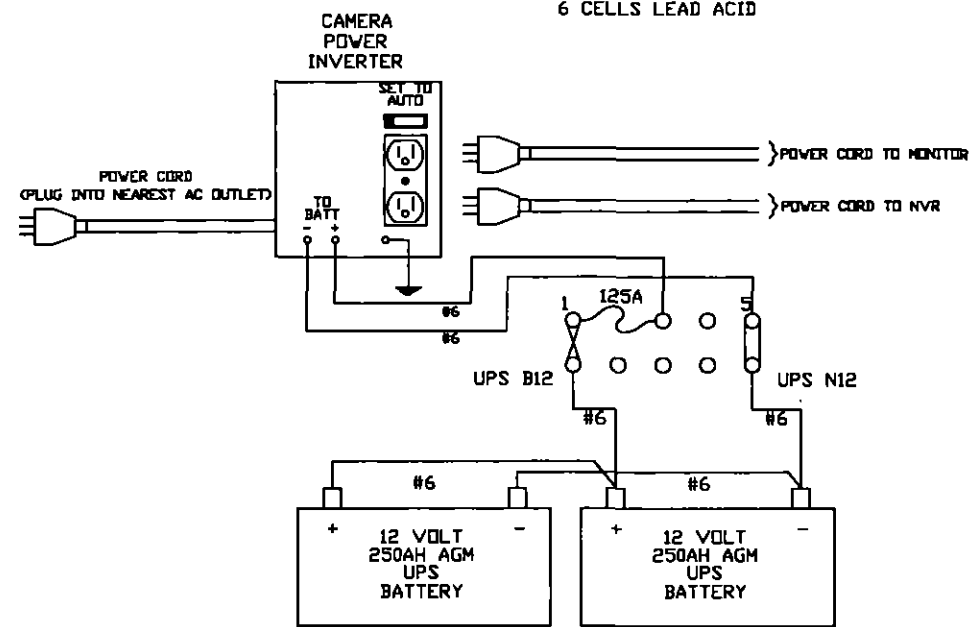
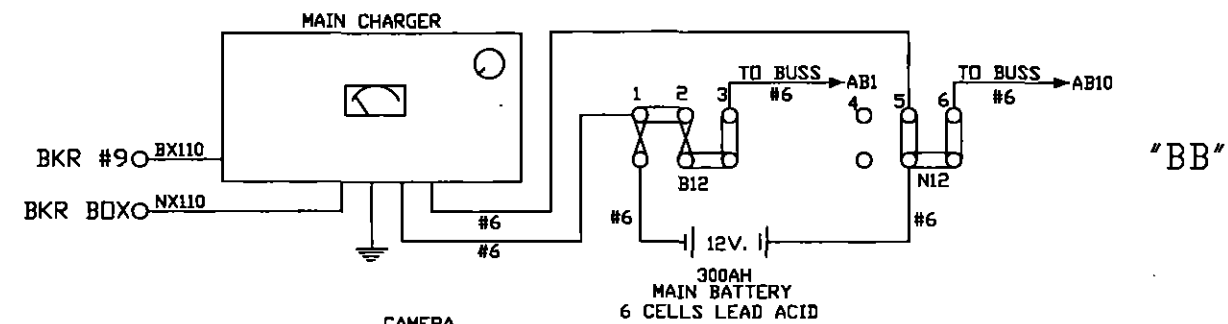
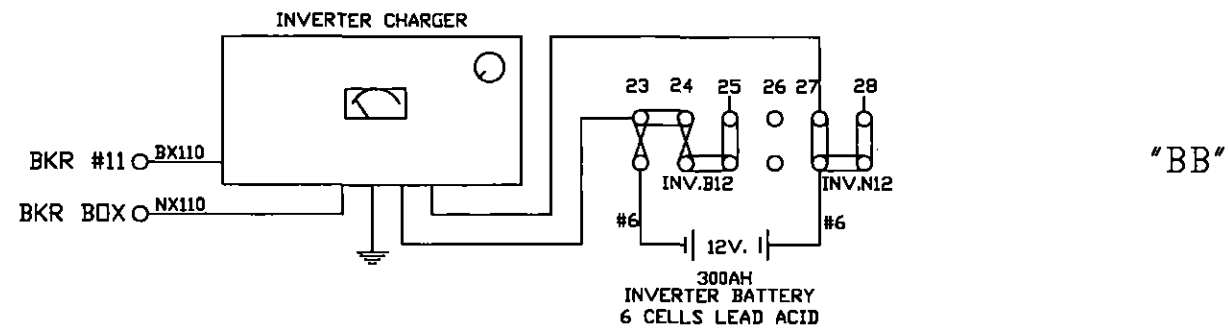
CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.



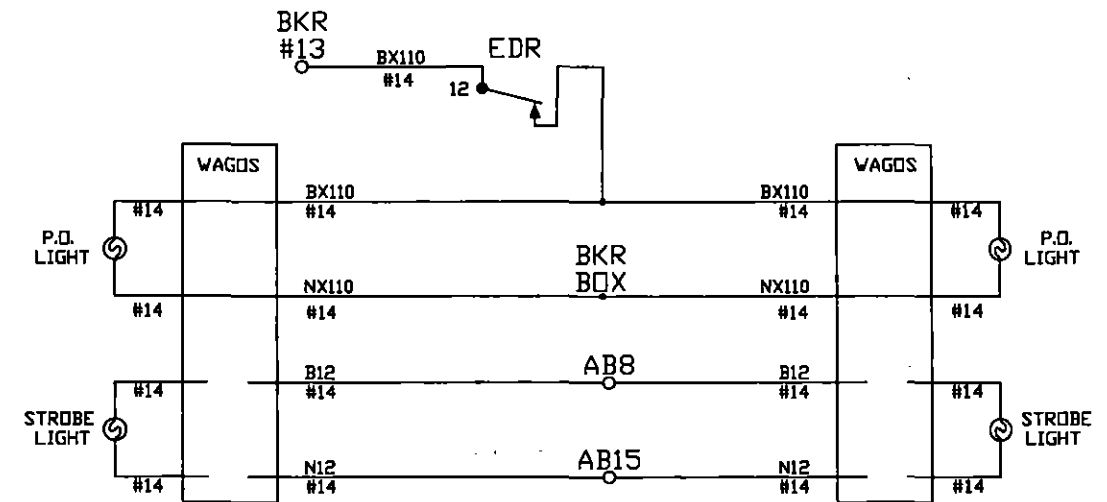
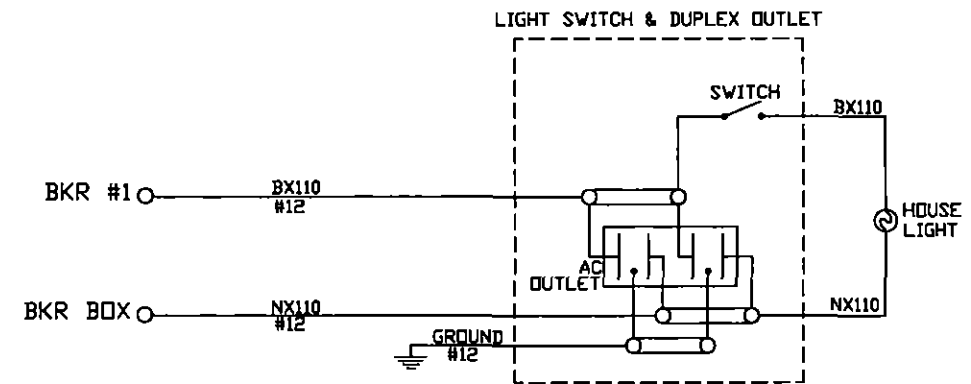
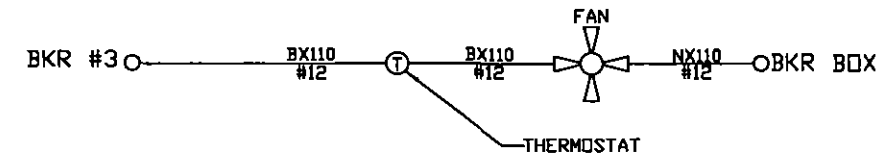
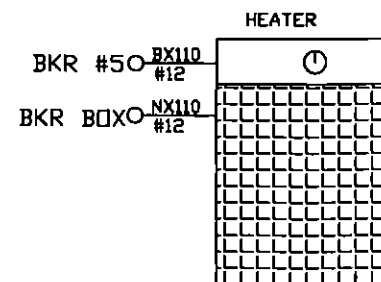
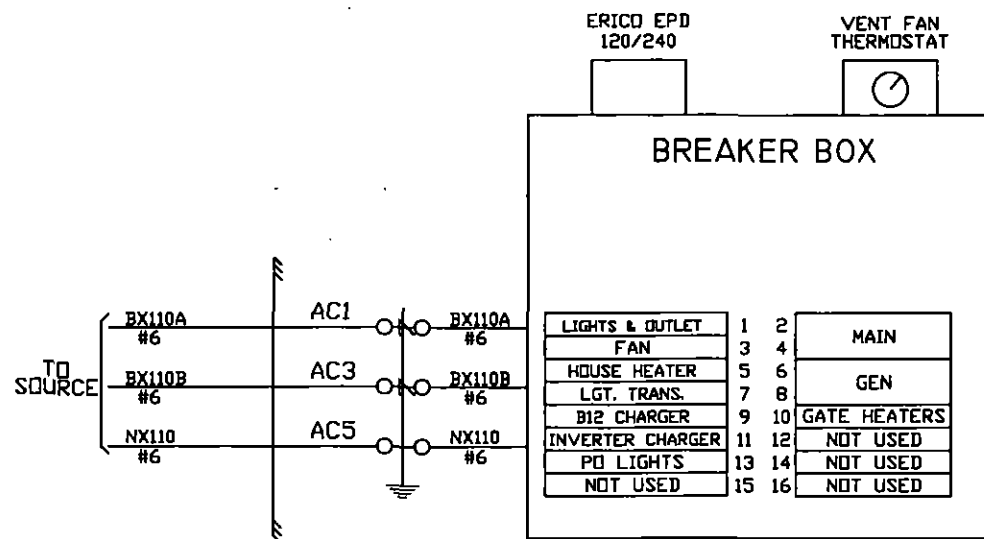
NOTES:
 ALL WIRE ON THIS SHEET IS #10AWG UNLESS OTHERWISE NOTED.
 * = TEMPORARY 'GATE READY' JUMPER.

FUTURE GATES

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 03/01/2022		REVISED:
HASS AVE - DOT # 591 731K - M.P. 1.18 SUNBURY, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN 'C'		DRAWING NUMBER 1.18	



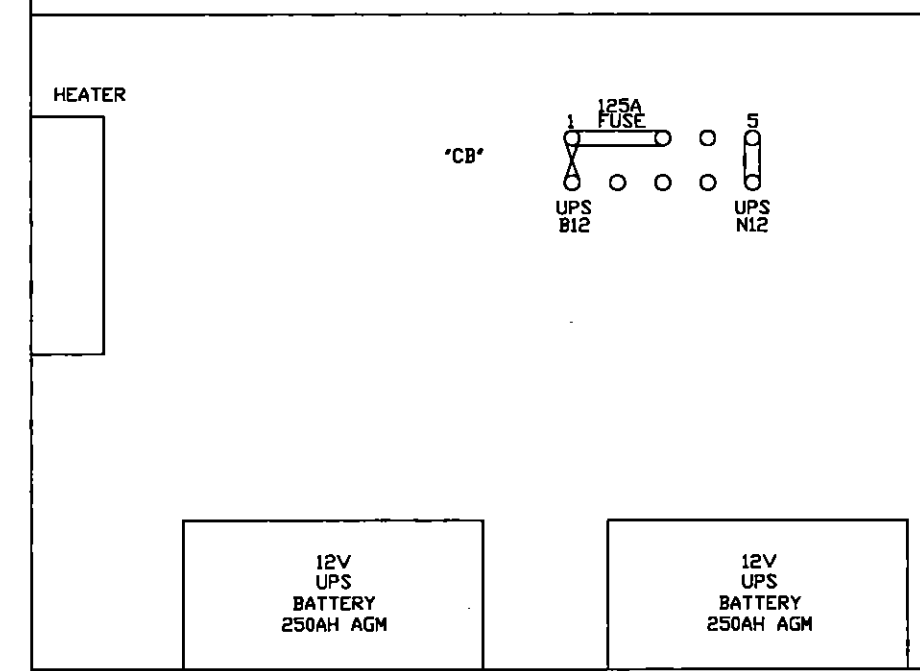
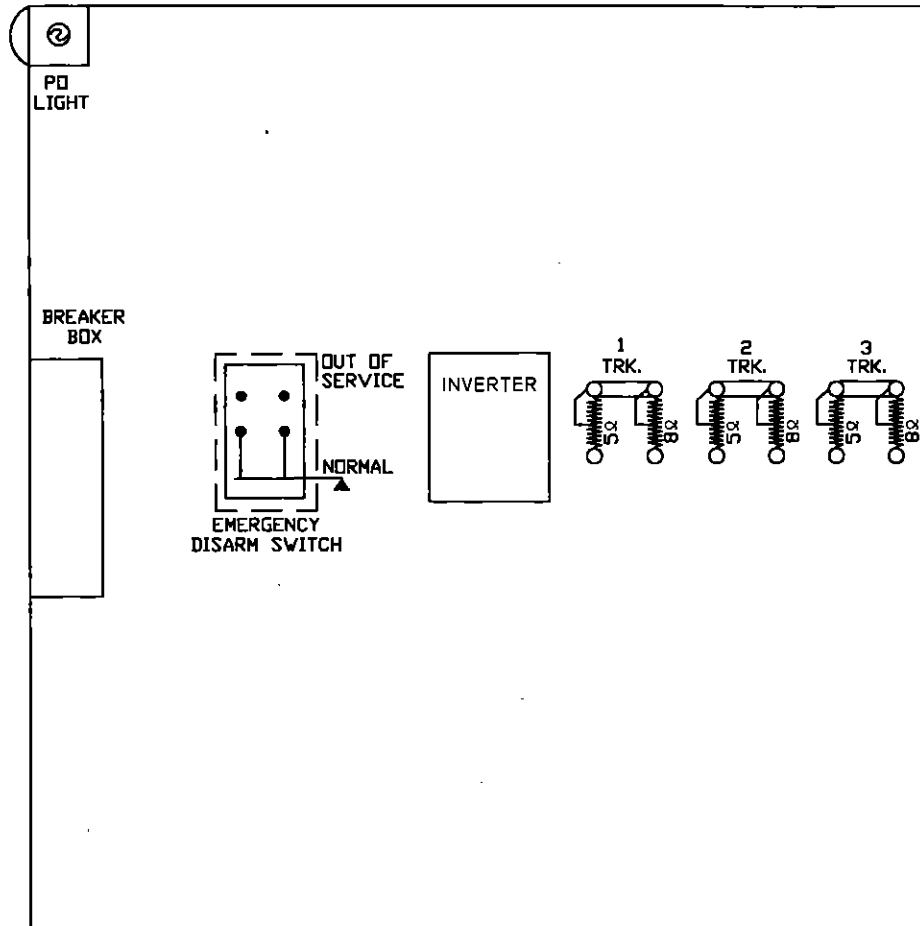
"CB"



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

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: JBS
	DATE: 03/01/2022		REVISED:
HASS AVE - DOT # 591 731K - M.P. 1.18 SUNBURY, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN "D"		DRAWING NUMBER 1.18	

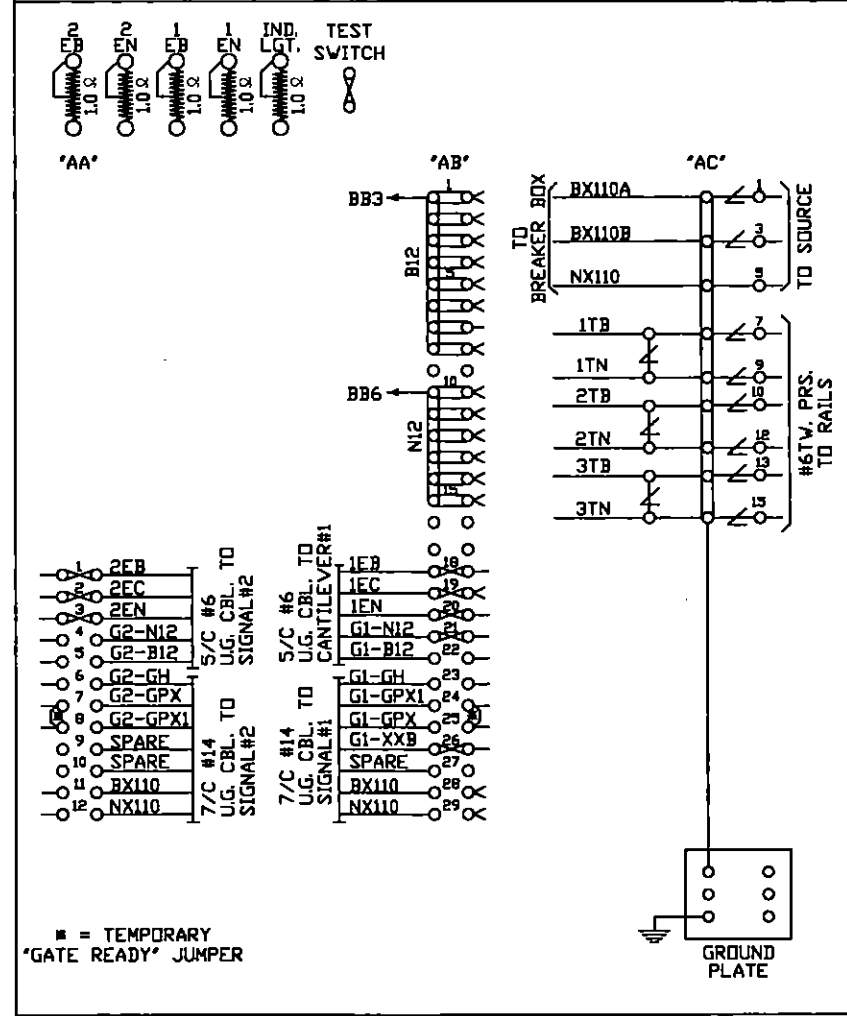
SIDE "C"



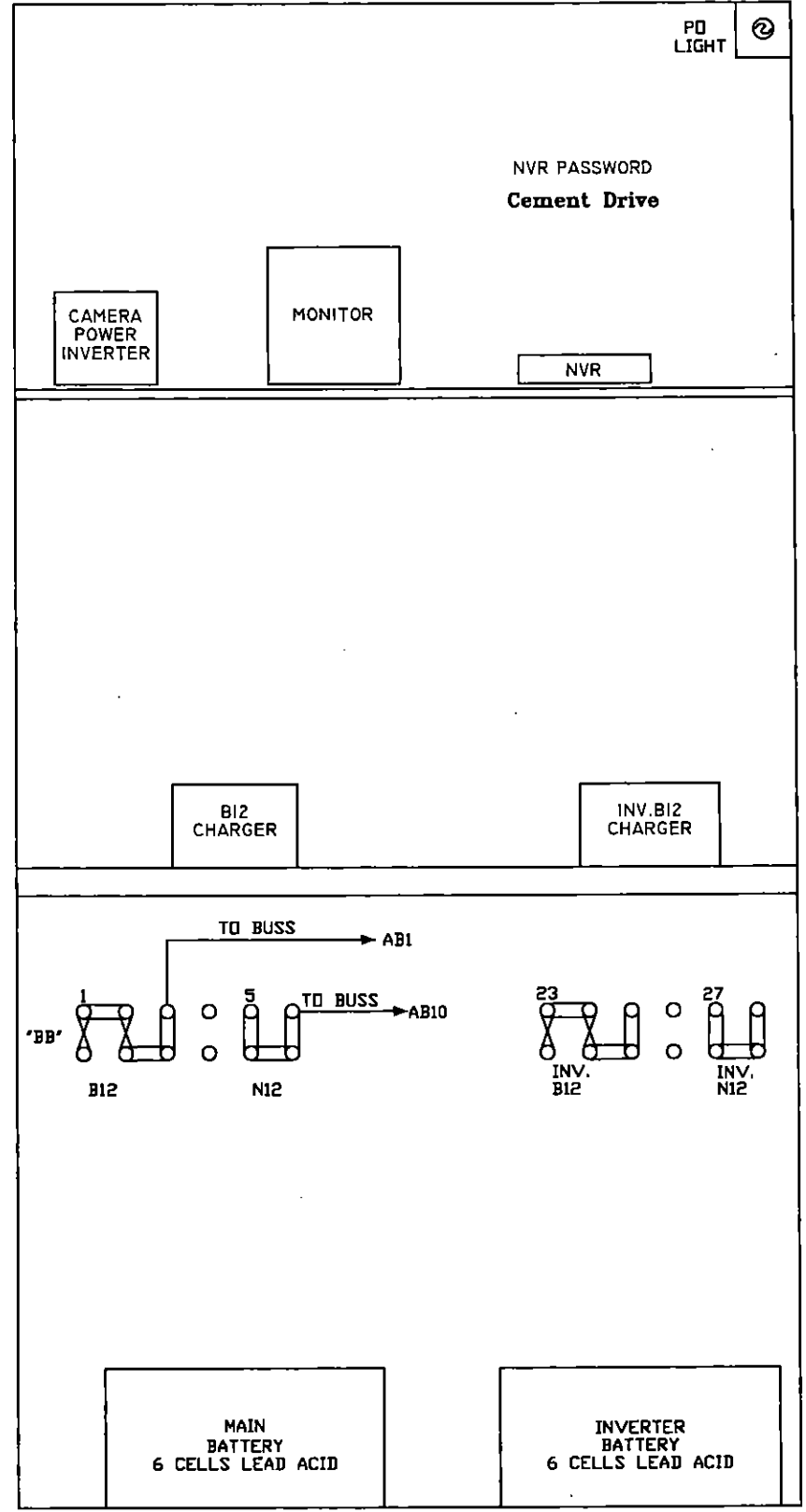
SIDE "A"

LIGHT TRANS.	POR	EOR	GPXR	XR	XGPR	EDR
	12 FB	12 FB	12 B	12 F	12	12 B
15 FB	15 FB	15 B	15	15	15	
22	32 FB	22 B	22	32 F	22	
25	35 FB	23	25 F	35 F	25 F	
32 FB		25	32		32 B	
35 FB		32	35 B		35	
		35				
A62-406	A62-671	A62-310	A62-262	A62-360	A62-262	
400800	400700-X	400020	400000	400200	400000	

SR	TR	2 TR	3 TR	3 SR	SLT-000 STICK RELEASE TIMER (10 MIN)
12	12 F	12 F	12 F	12	
15	15 FB	15	15 FB	15 F	
22	22	22 B	22	22 B	
23	23	23 F	23	23	
25	25 F	25 F	25 F	25 F	
32	32	32	32	32	
35	35	35 B	35	35 B	
A62-357	A62-120	A62-120	A62-120	A62-357	
4002H	400510	400510	400510	4002H	



SIDE "B"



DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES	
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
DATE: 03/01/2022		REVISED:
HASS AVE - DOT # 591 731K - M.P. 1.18 SUNBURY, NORTHUMBERLAND COUNTY, PA		
RELAY HOUSE LAYOUT		DRAWING NUMBER 1.18

WEST ← EAST →

IJ ROAD EDGE ROAD EDGE IJ

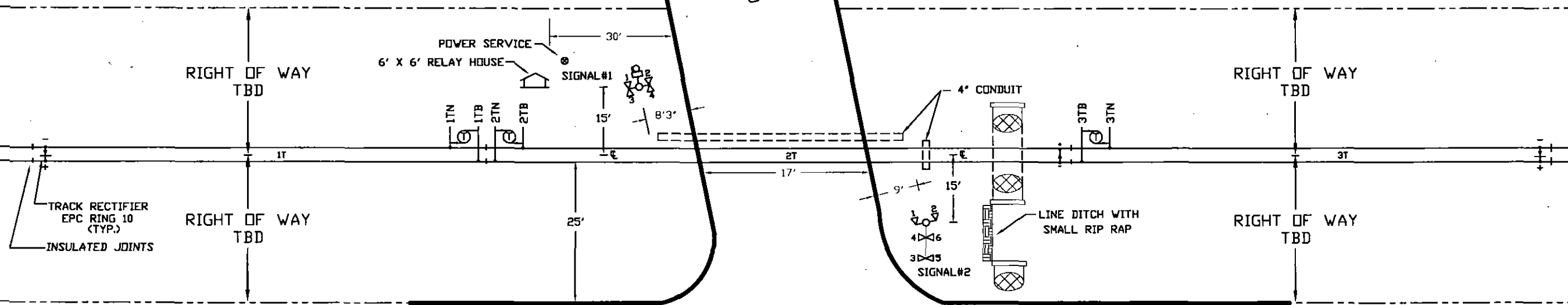
50' MIN. 50' MIN.

MILL ROAD
START 440'
30 SECS. @ 10 MPH

MILL ROAD
START 440'
30 SECS. @ 10 MPH

G1

G3



G4

SAWMILL ROAD

SAWMILL ROAD

G2

NOTES:

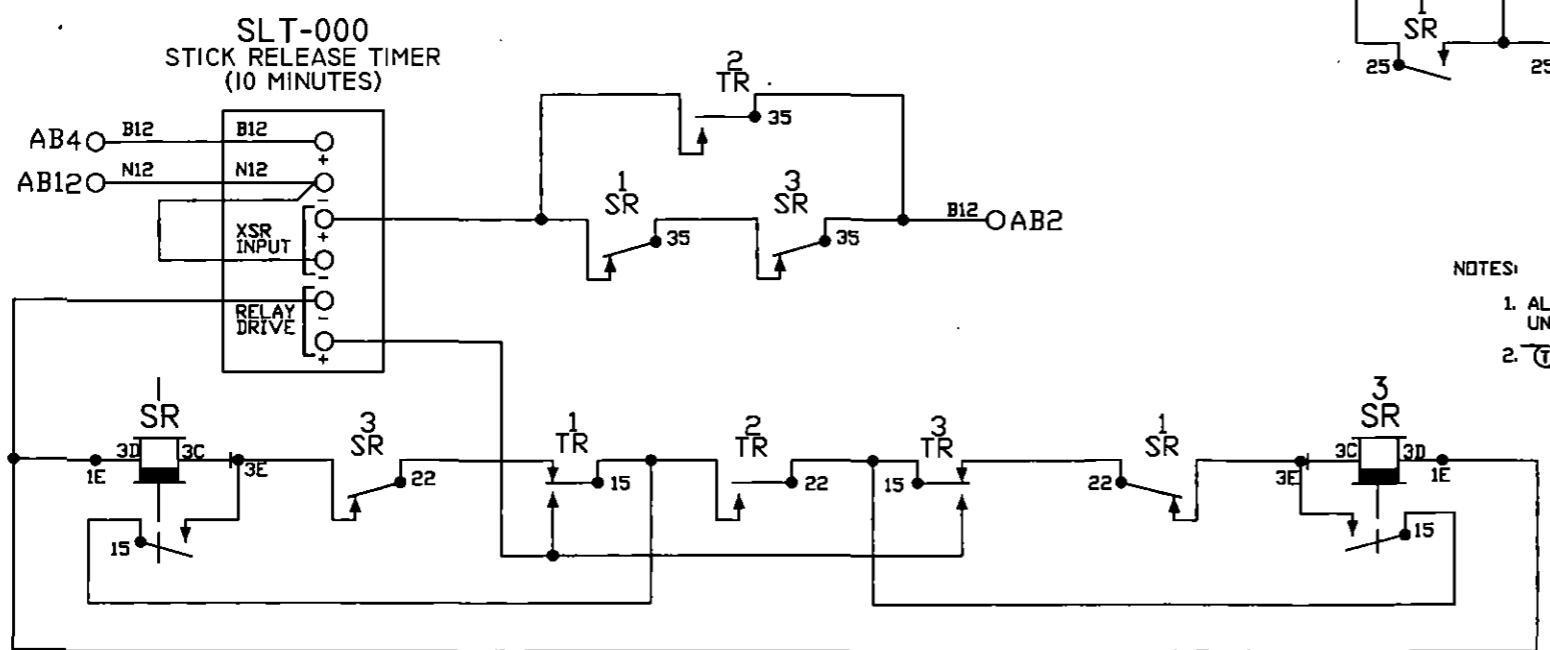
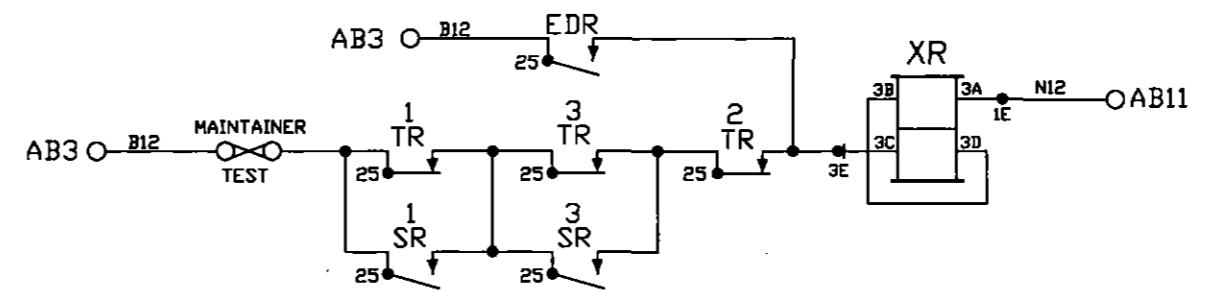
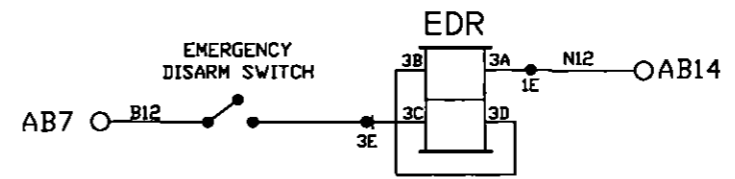
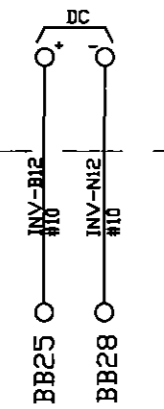
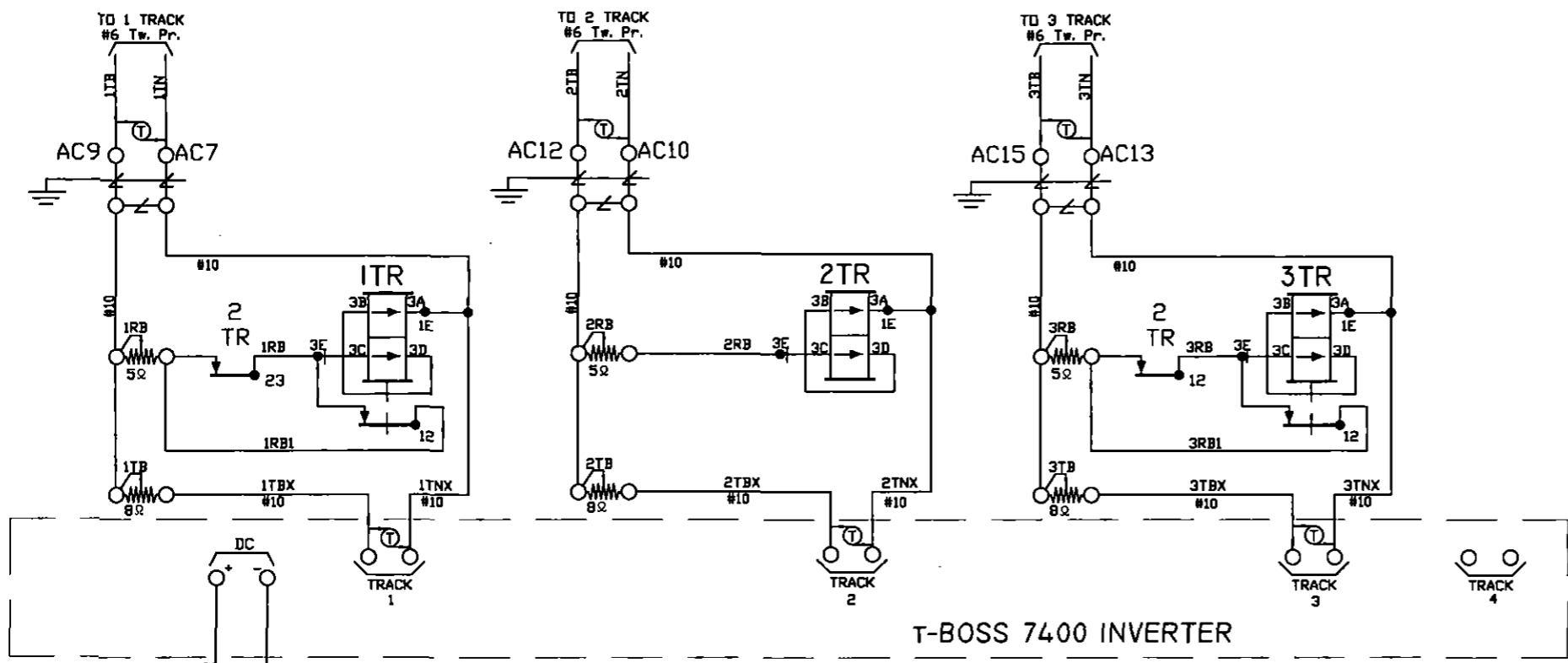
1. MATERIAL & INSTALLATION TO BE IN ACCORDANCE WITH MUTCD, STATE AND RAILROAD STANDARDS.
2. ALL DIMENSIONS ARE APPROXIMATE AND MAY VARY DUE TO ACTUAL FIELD CONDITIONS.
3. FLASHLIGHT SIGNALS & GATE LIGHTS TO BE LIGHT EMITTING DIODE ASSEMBLIES, (LED).
4. (T) DENOTES TWIST PAIR.

CABLE RUN TABULATION

HOUSE TO SIGNAL #1	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO SIGNAL #2	- 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 TWISTED PAIR
HOUSE TO 2TN & 2TB	- 2/C #6 TWISTED PAIR
HOUSE TO 3TN & 3TB	- 2/C #6 TWISTED PAIR

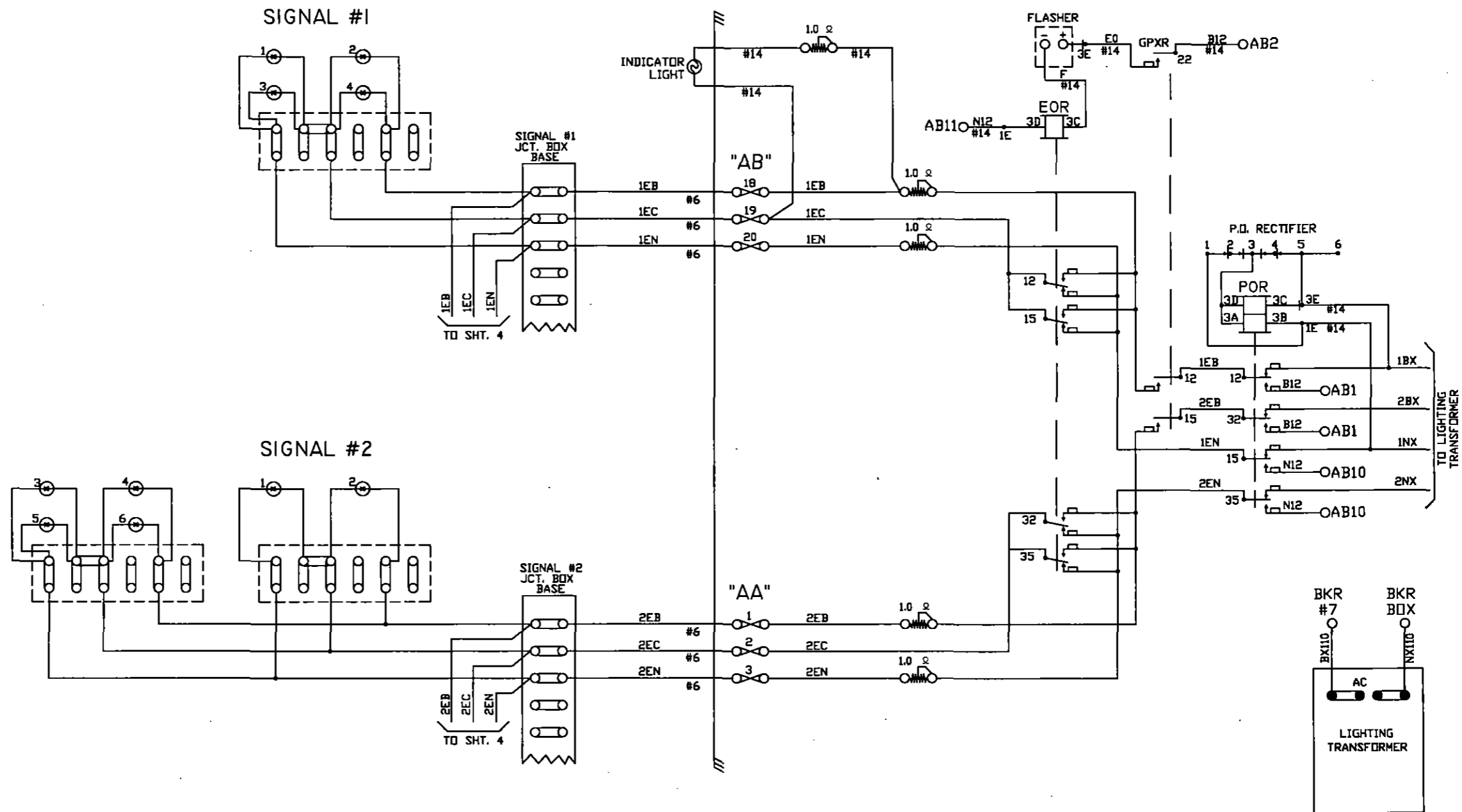
RCVD PUC SEC BUR
FEB 23 2023 AM 10:54

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED		AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
	DATE: 03/07/2022		REVISED:	
			MILL ROAD - DOT # 591 726N - M.P. 4.56 SUNBURY, NORTHUMBERLAND COUNTY, PA	
			TRACK & CABLE PLAN	DRAWING NUMBER 4.56



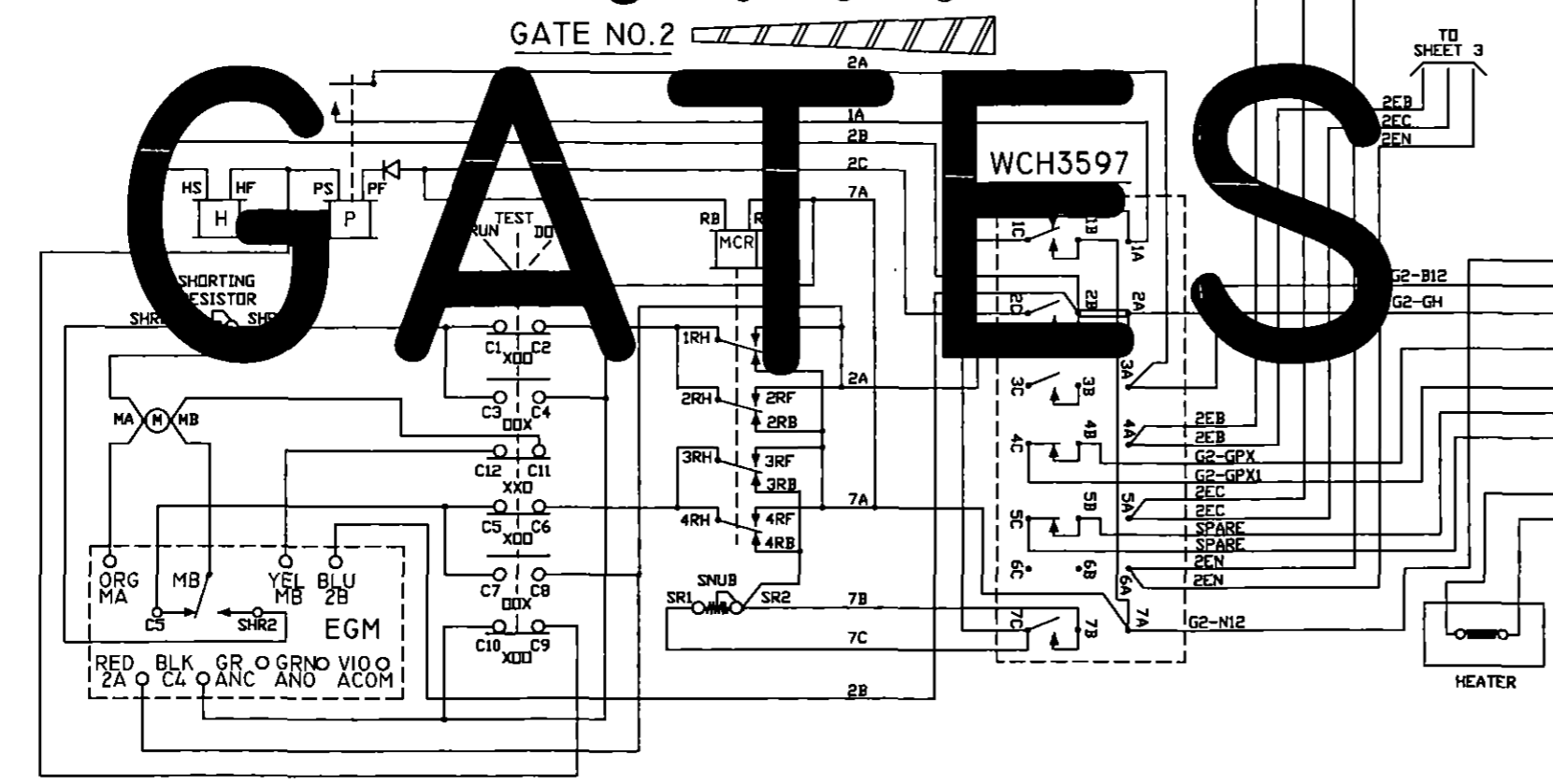
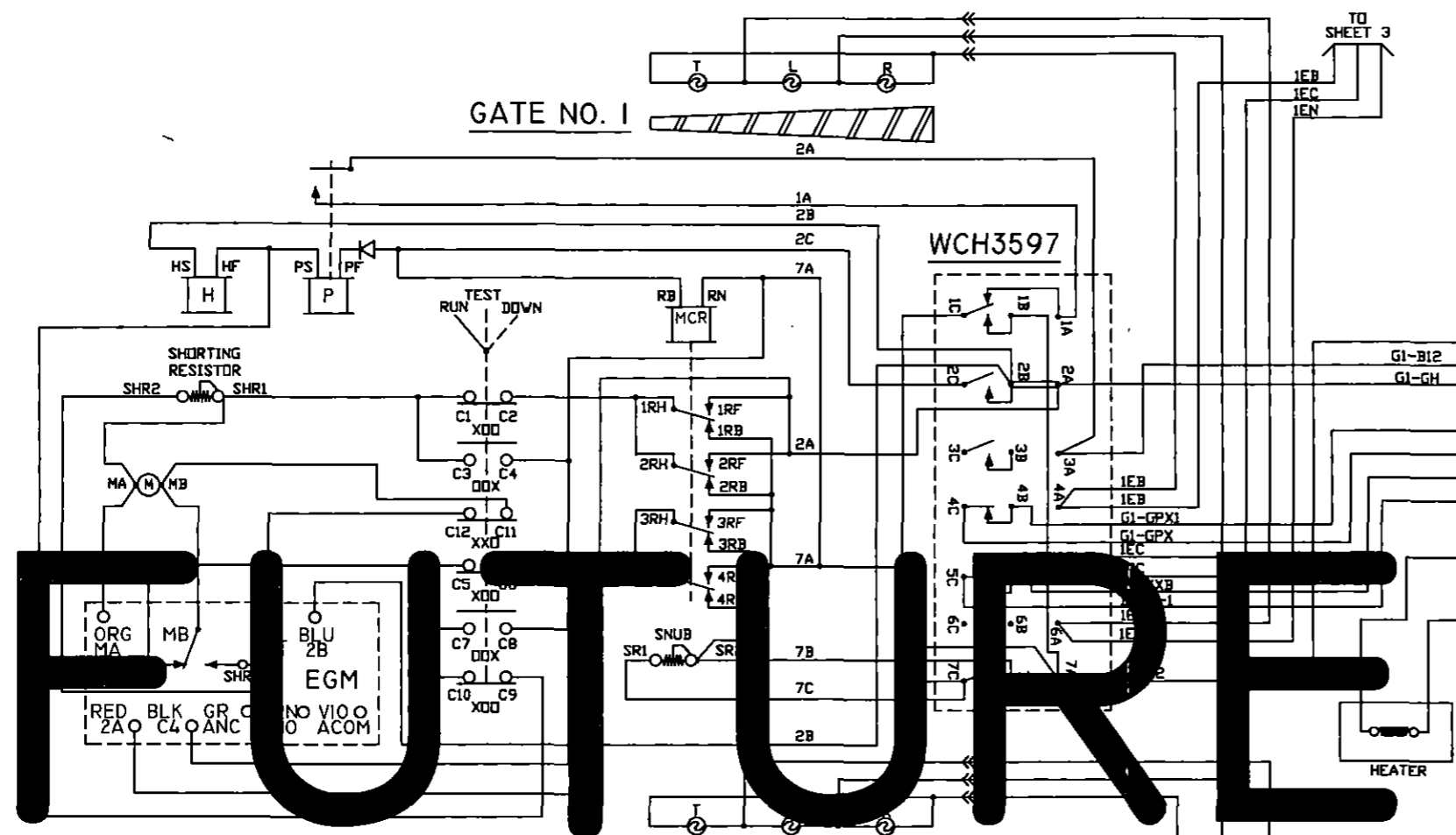
- NOTES:
1. ALL WIRE THIS SHEET IS #14 AWG FLEX UNLESS OTHERWISE NOTED.
 2. (TW) DENOTES TWISTED PAIR.

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 03/07/2022		REVISED:
MILL ROAD - DOT # 591 726N - M.P. 4.56 SUNBURY, NORTHUMBERLAND COUNTY, PA		DRAWING NUMBER CIRCUIT PLAN "A"	
		4.56	

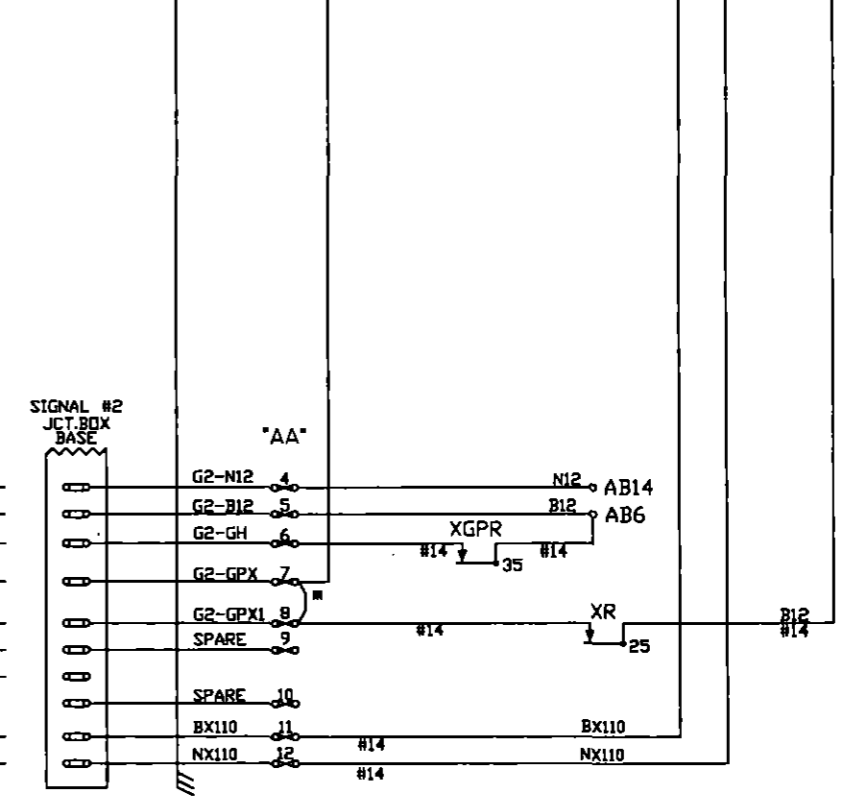
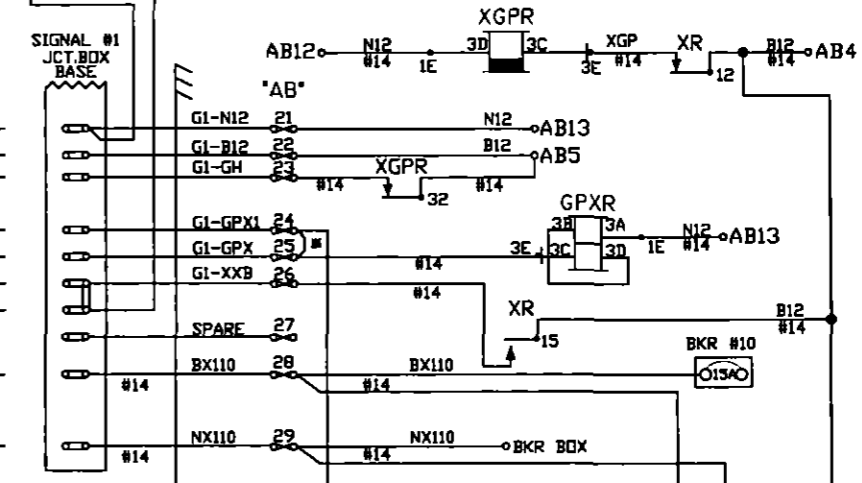


NOTE:
ALL WIRE THIS SHEET IS #10 AWG. FLEX
UNLESS OTHERWISE NOTED.

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 03/07/2022		REVISED:
MILL ROAD - DOT # 591 726N - M.P. 4.56 SUNBURY, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN "B"		DRAWING NUMBER 4.56	



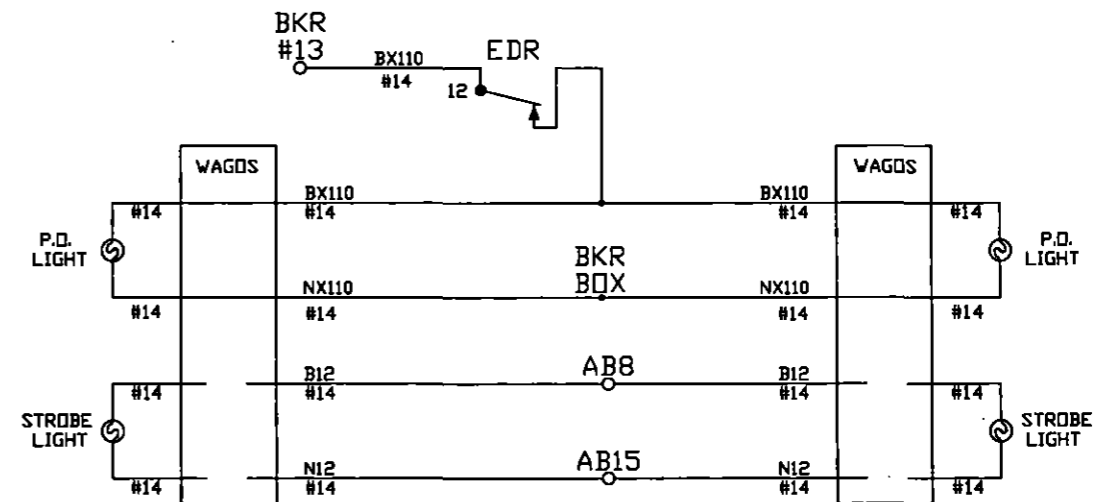
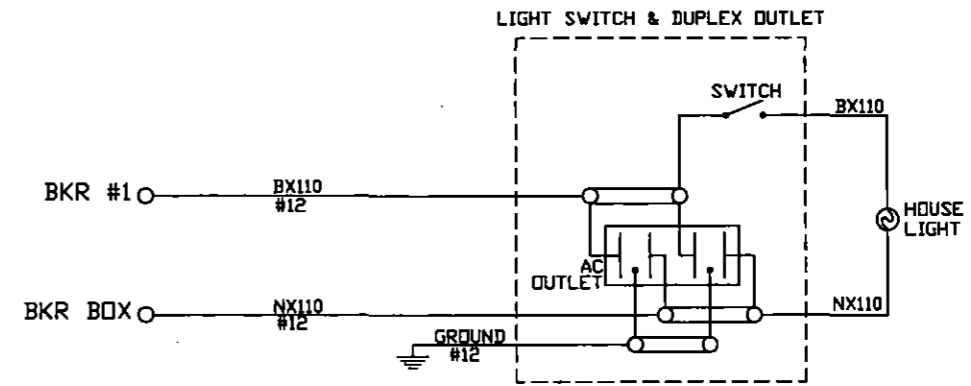
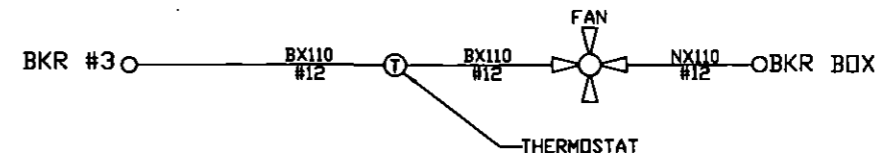
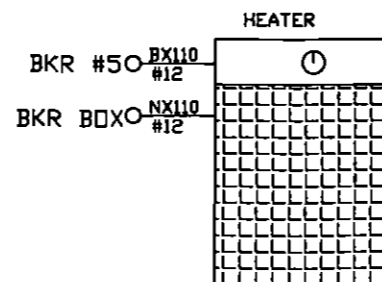
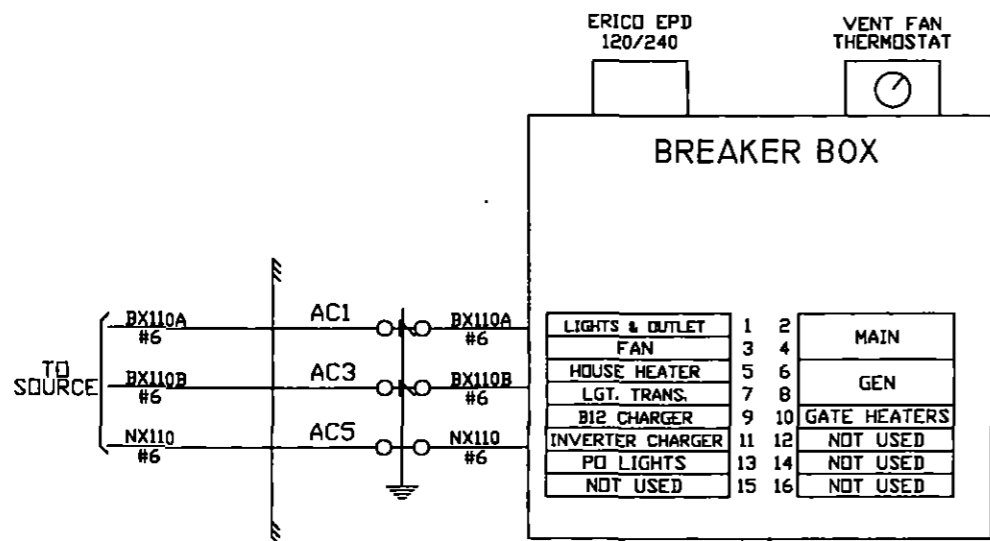
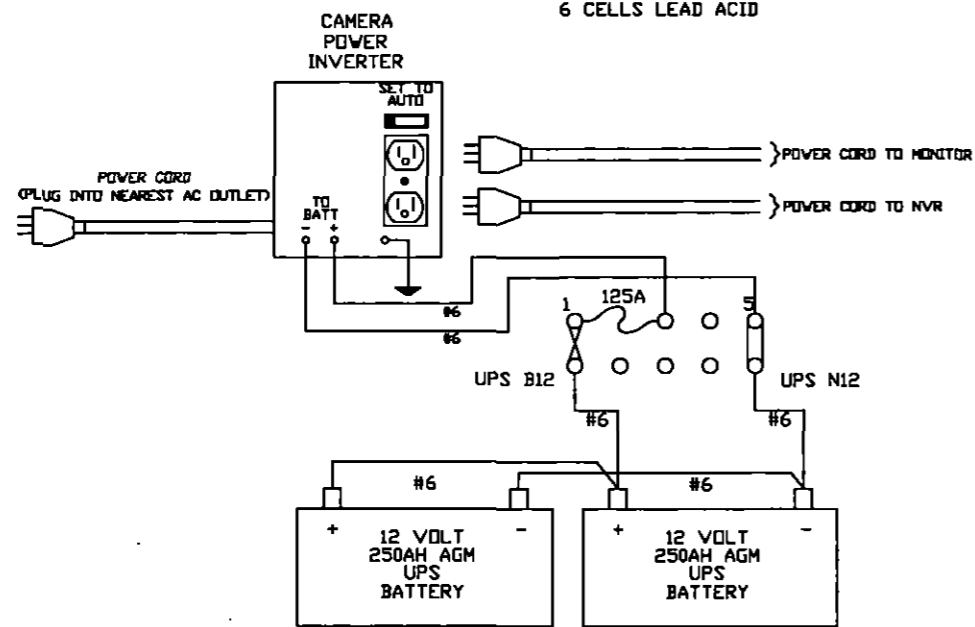
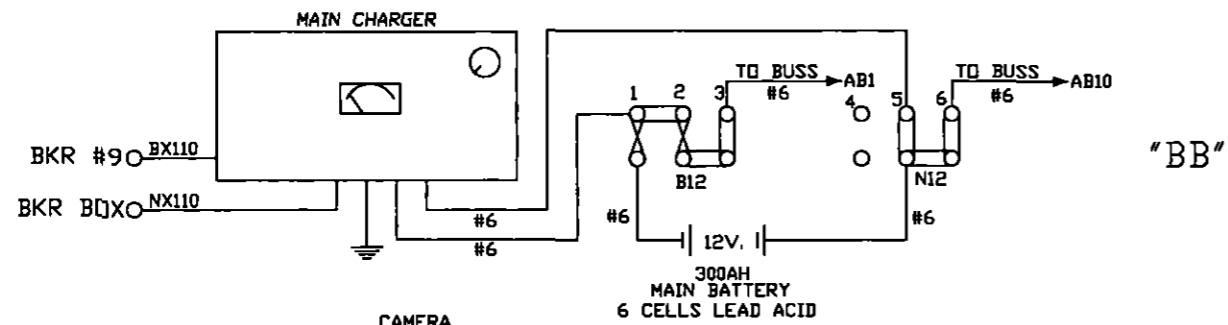
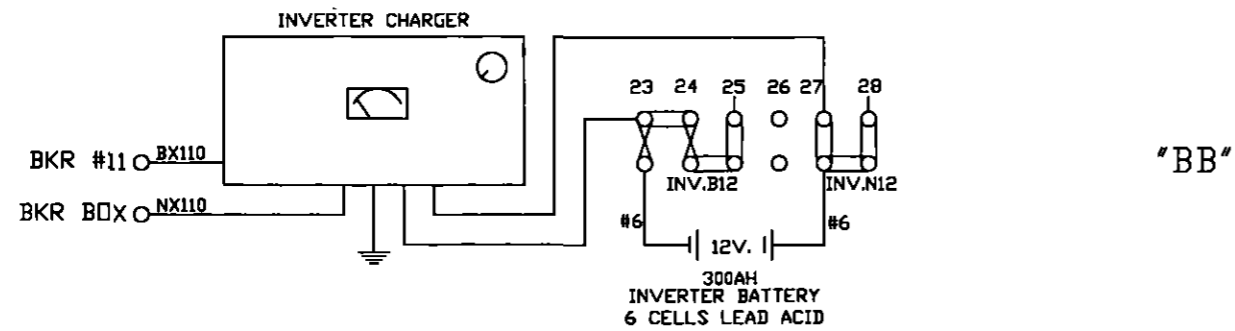
CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.



NOTES:
 ALL WIRE ON THIS SHEET IS #10AWG UNLESS OTHERWISE NOTED.
 * = TEMPORARY 'GATE READY' JUMPER.

FUTURE GATES

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 03/07/2022		REVISED:
MILL ROAD - DOT # 591 726N - M.P. 4.56 SUNBURY, NORTHUMBERLAND COUNTY, PA		DRAWING NUMBER	
CIRCUIT PLAN 'C'		4,56	

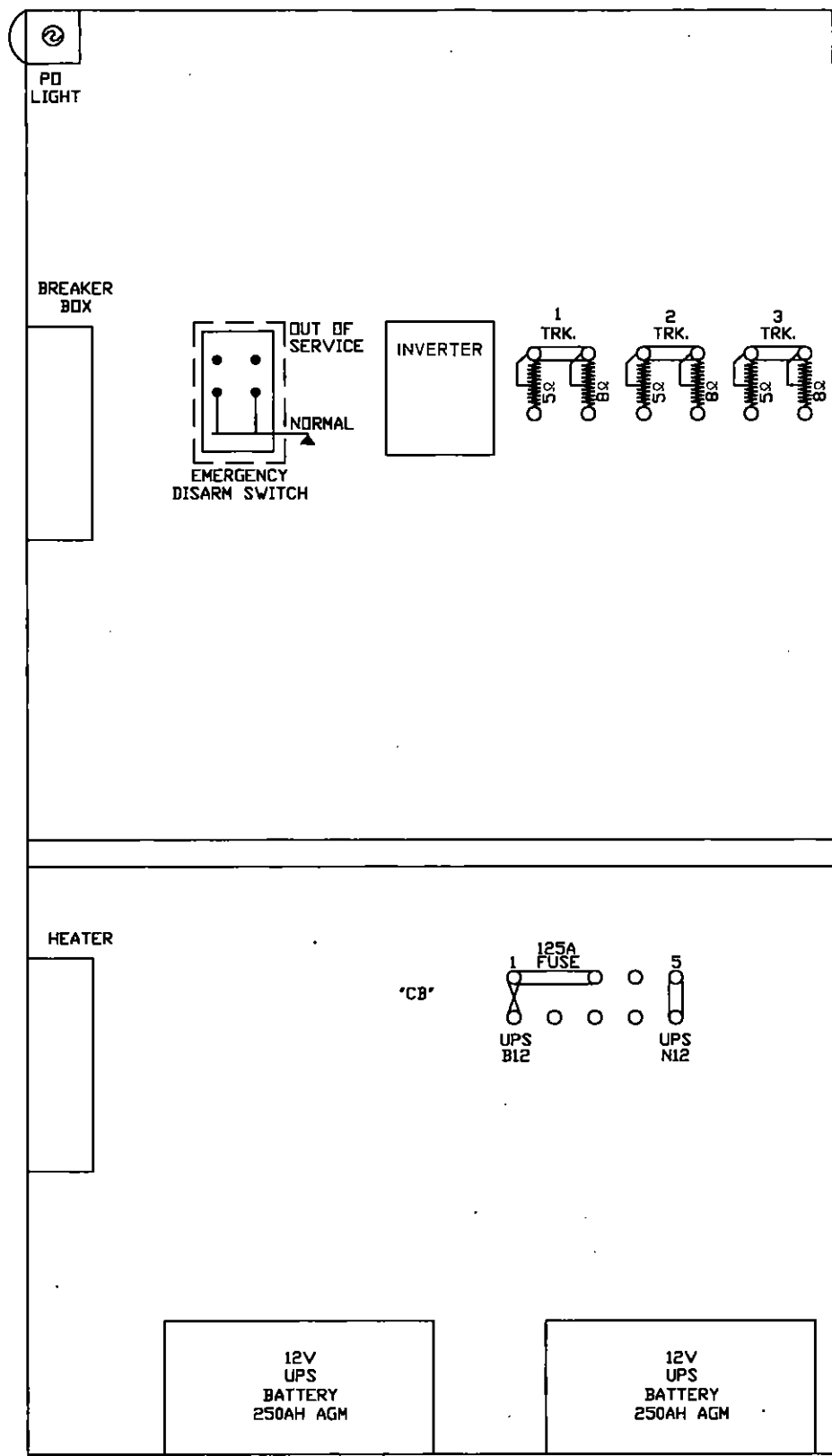


NOTE:
ALL WIRE THIS SHEET IS #10 AWG FLEX
UNLESS OTHERWISE NOTED.

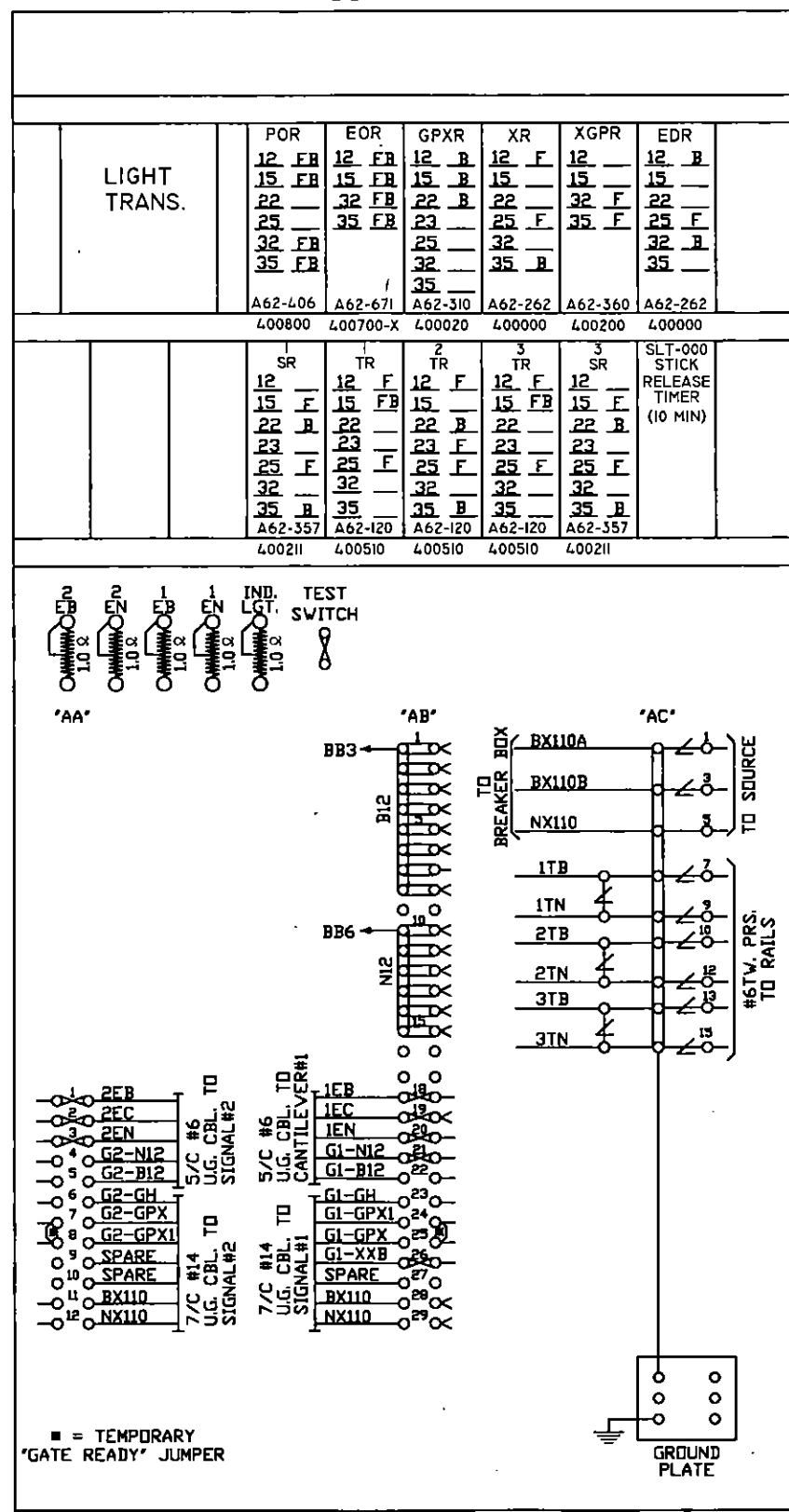
AS WIRED AS INSTALLED

DIAMONDBACK SIGNAL	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES	
	SCALE: NONE	APPROVED BY:
(410) 795-9601	DATE: 03/07/2022	DRAWN BY: DBS
5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	MILL ROAD - DOT # 591 726N - M.P. 4.56 SUNBURY, NORTHUMBERLAND COUNTY, PA	
	CIRCUIT PLAN "D"	DRAWING NUMBER 4.56

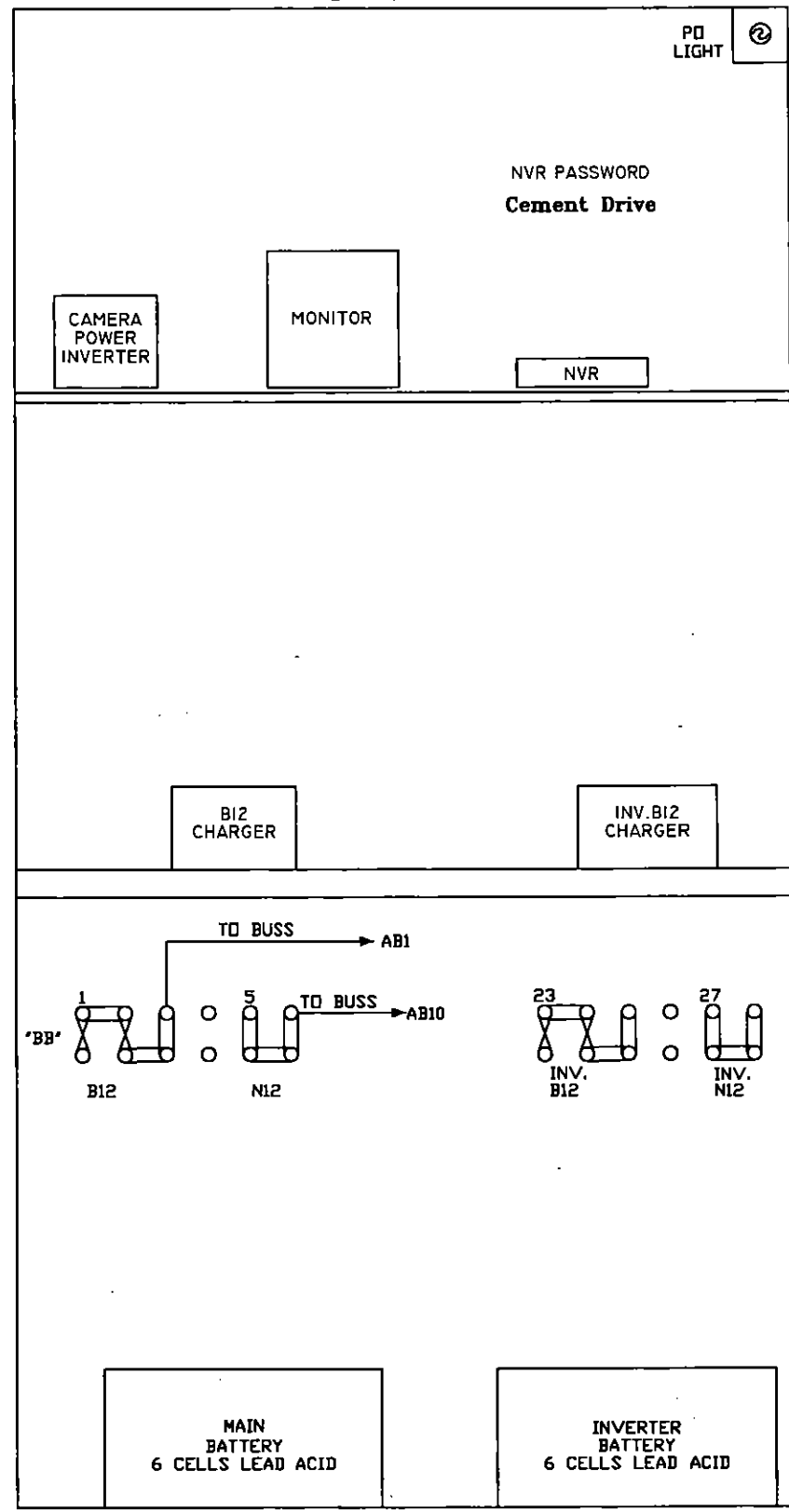
SIDE "C"



SIDE "A"



SIDE "B"



DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED		
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
	DATE: 03/07/2022		REVISED:	
MILL ROAD - DOT # 591 726N - M.P. 4.56 SUNBURY, NORTHUMBERLAND COUNTY, PA				
RELAY HOUSE LAYOUT			DRAWING NUMBER 4.56	

EAST ←

WEST →

MARKET STREET
START 340'
30 SECS. @ 10 MPH

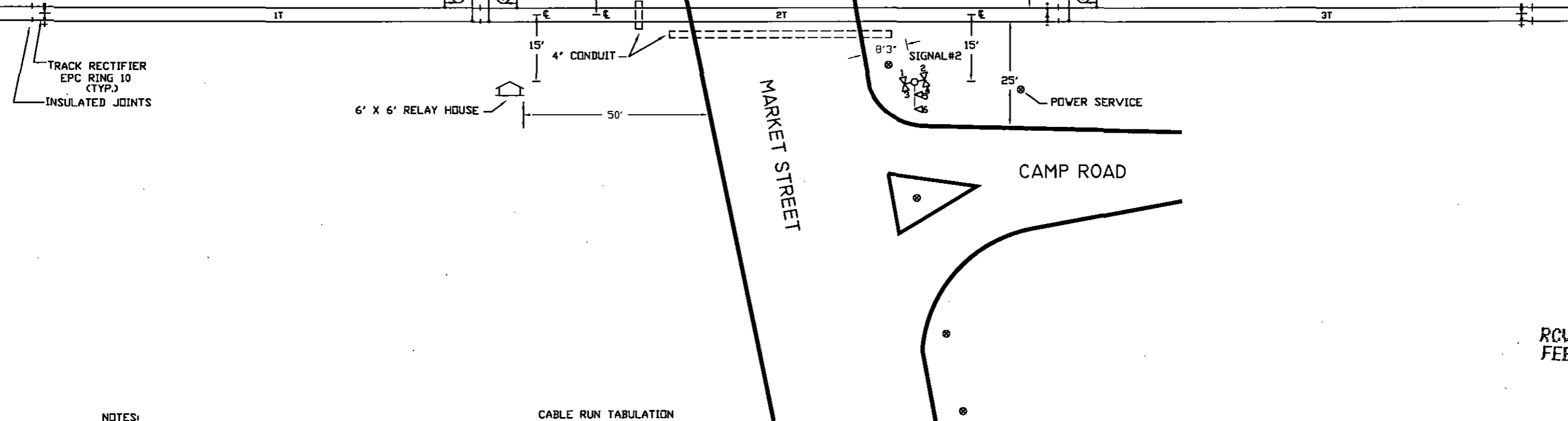
MARKET STREET
START 440'
30 SECS. @ 10 MPH



FURMAN ROAD

CAMP ROAD

MARKET STREET



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. FLASHLIGHT SIGNALS & GATE LIGHTS TO BE LIGHT EMITTING DIODE ASSEMBLIES, (LED).
4. (T) DENOTES TWIST PAIR.

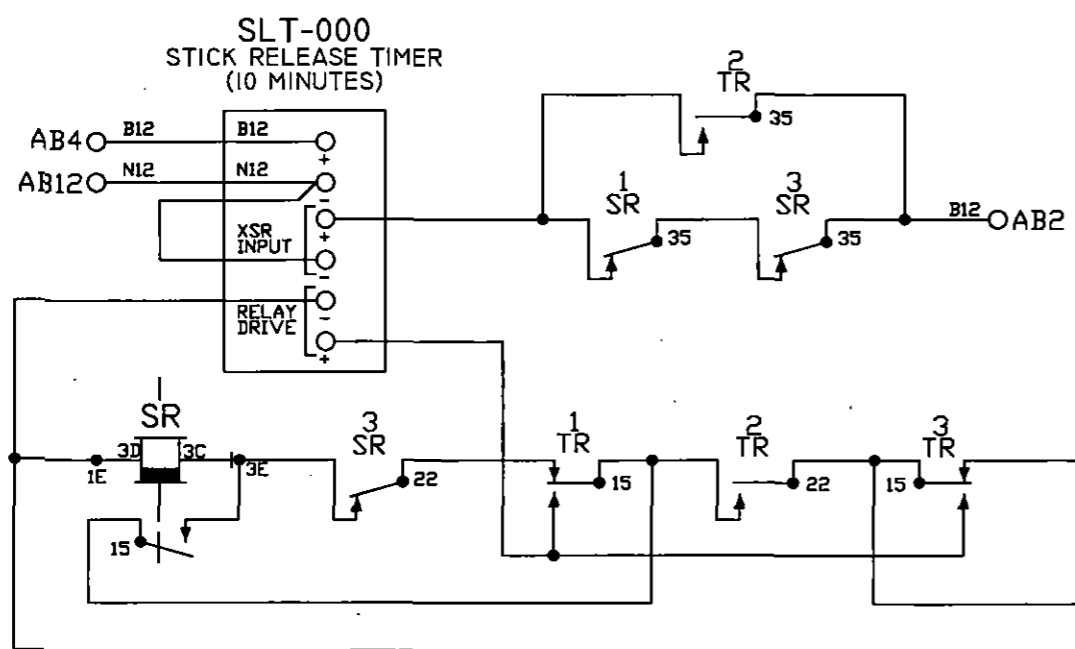
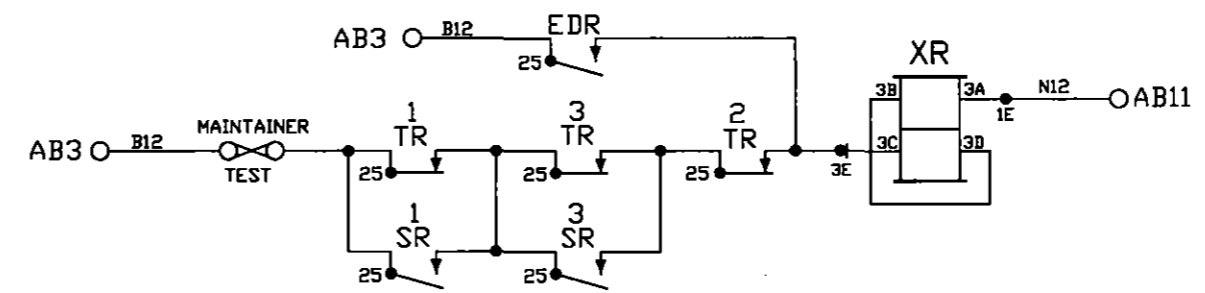
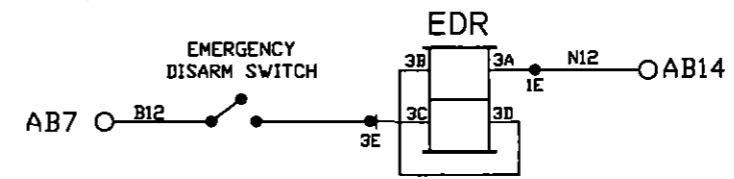
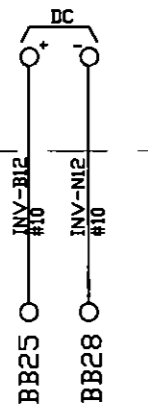
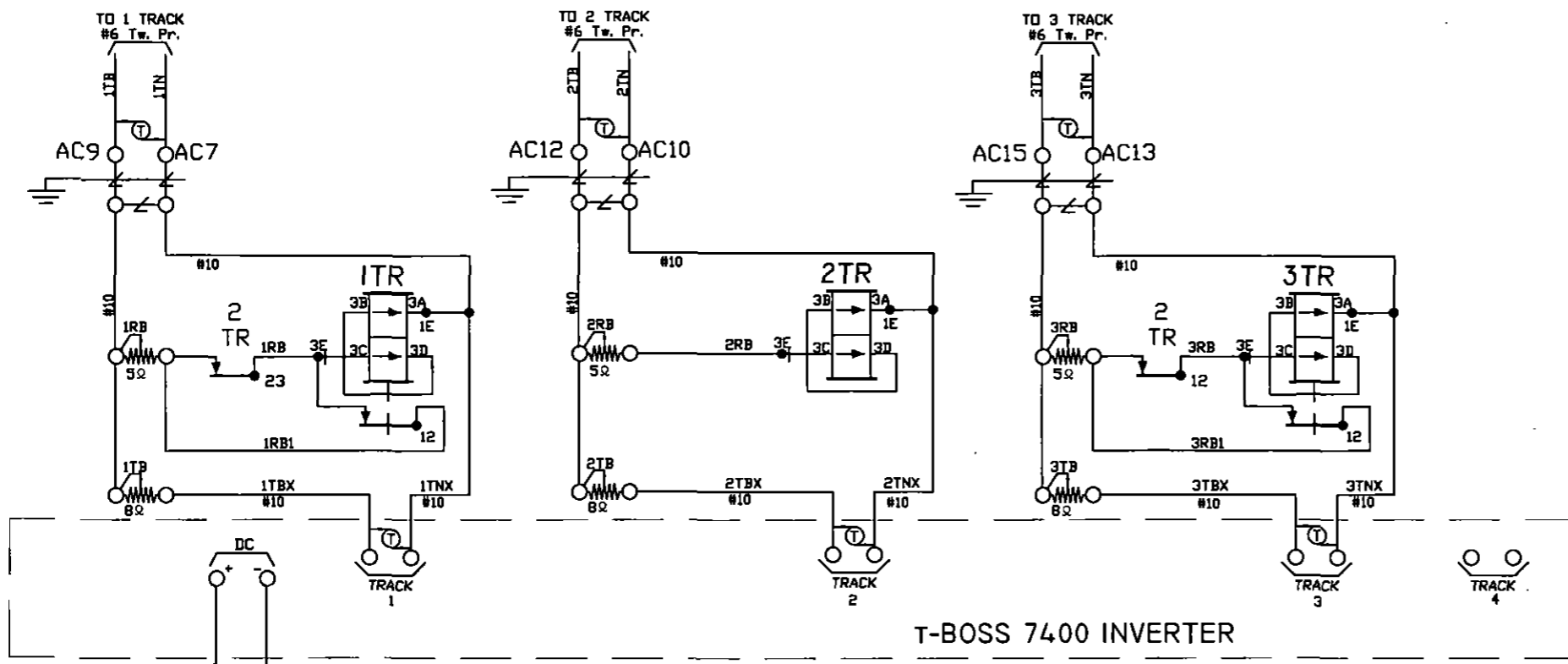
CABLE RUN TABULATION

- | | |
|---------------------|-----------------------|
| HOUSE TO SIGNAL #1 | - 5/C #6 UG CABLE |
| | - 7/C #14 UG CABLE |
| HOUSE TO SIGNAL #2 | - 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 TWISTED PAIR |
| HOUSE TO 2TN & 2TB | - 2/C #6 TWISTED PAIR |
| HOUSE TO 3TN & 3TB | - 2/C #6 TWISTED PAIR |

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

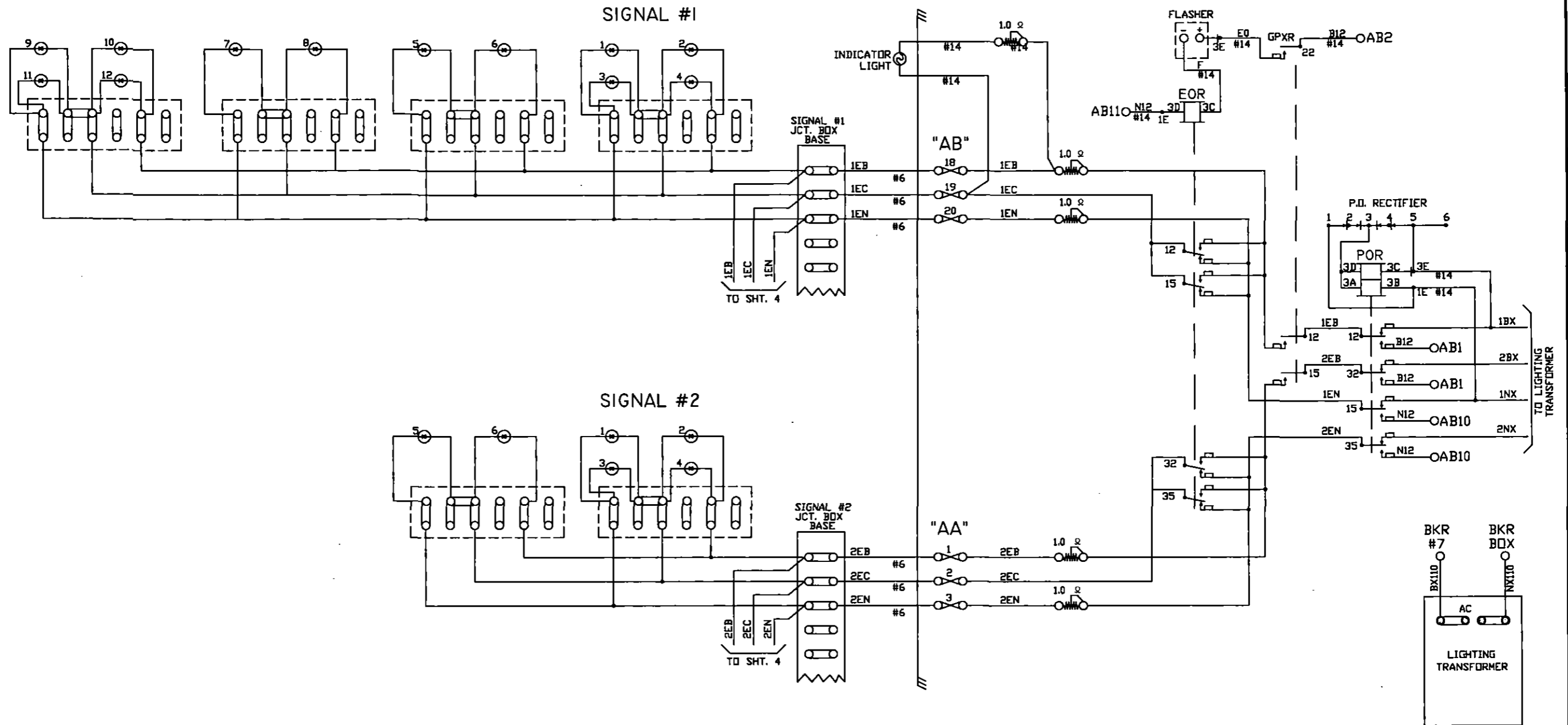
AS WIRED		AS INSTALLED	
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 03/01/2022		REVISED:	
MARKET STREET - DOT # 591 722L - M.P. 7.10 SNYDERTOWN, NORTHUMBERLAND COUNTY, PA			
TRACK & CABLE PLAN			DRAWING NUMBER 7.10

RCVD PUC SEC BUR
FEB 23 2023 09:10:54



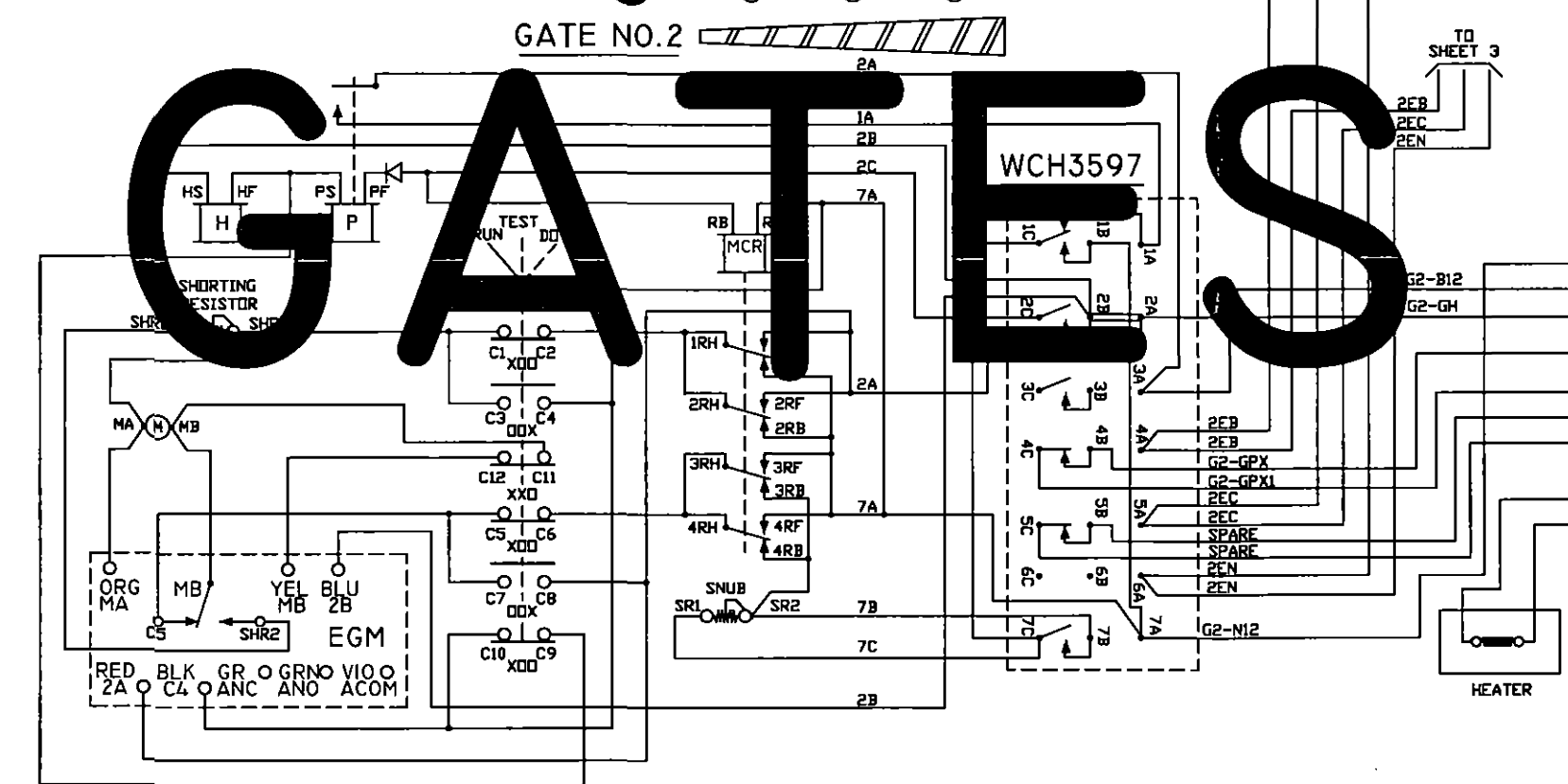
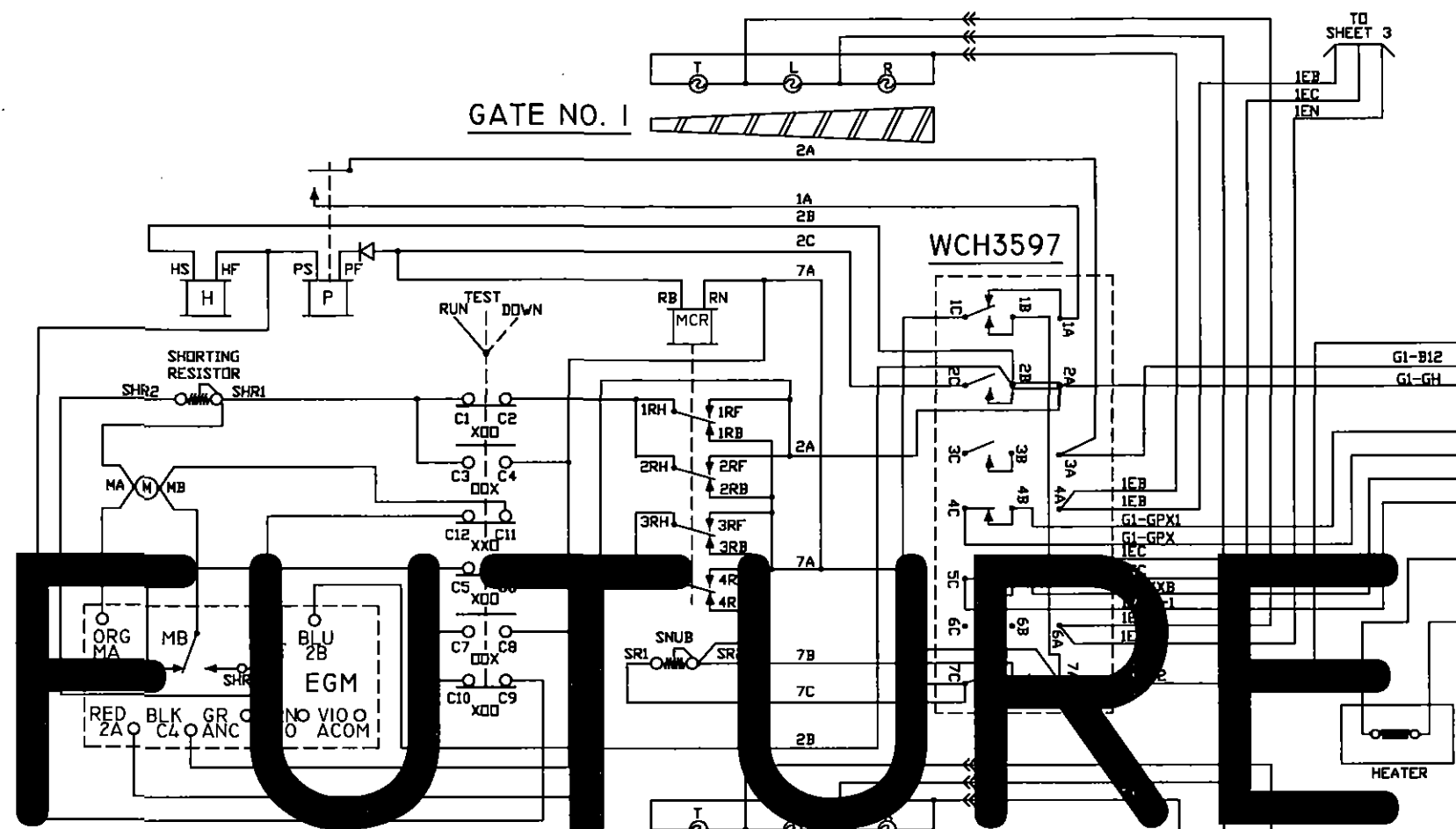
- NOTES:
1. ALL WIRE THIS SHEET IS #14 AWG FLEX UNLESS OTHERWISE NOTED.
 2. (T) DENOTES TWISTED PAIR.

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES	
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
DATE: 03/01/2022		REVISED:
MARKET STREET - DOT # 591 722L - M.P. 7.10 SNYDERTOWN, NORTHUMBERLAND COUNTY, PA		
CIRCUIT PLAN 'A'		DRAWING NUMBER 7.10

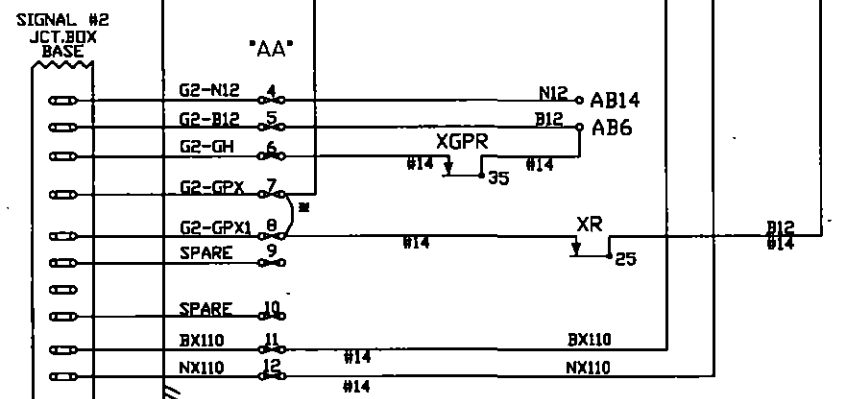
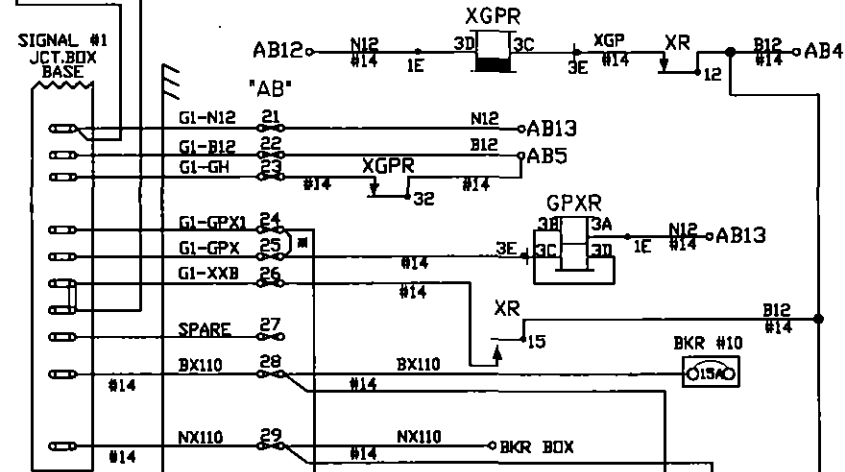


NOTE:
ALL WIRE THIS SHEET IS #10 AWG. FLEX
UNLESS OTHERWISE NOTED.

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: IBS
	DATE: 03/01/2022		REVISED:
MARKET STREET - DOT # 591 722L - M.P. 7.10 SNYDERTOWN, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN 'B'		DRAWING NUMBER 7.10	



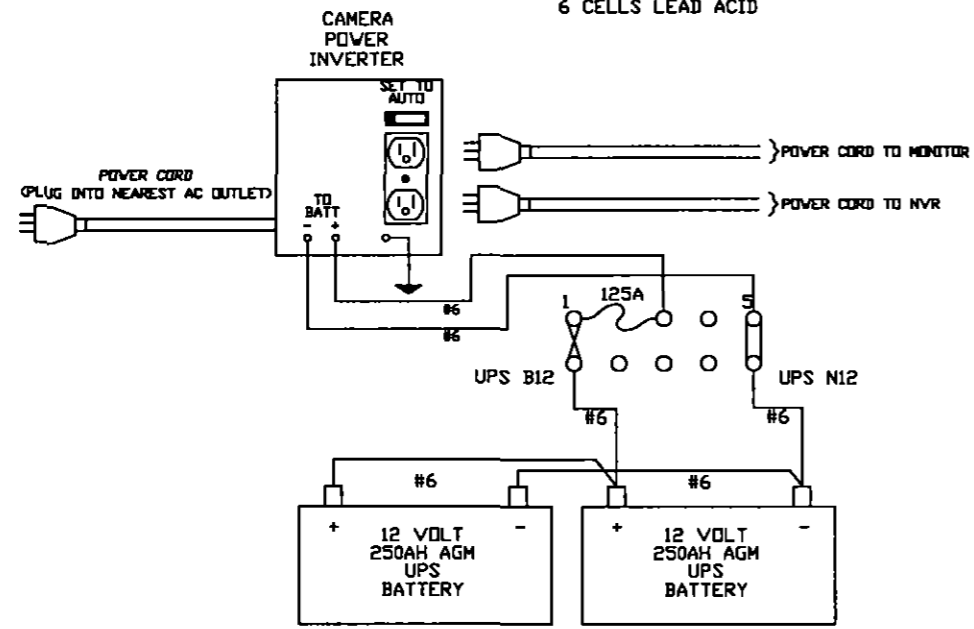
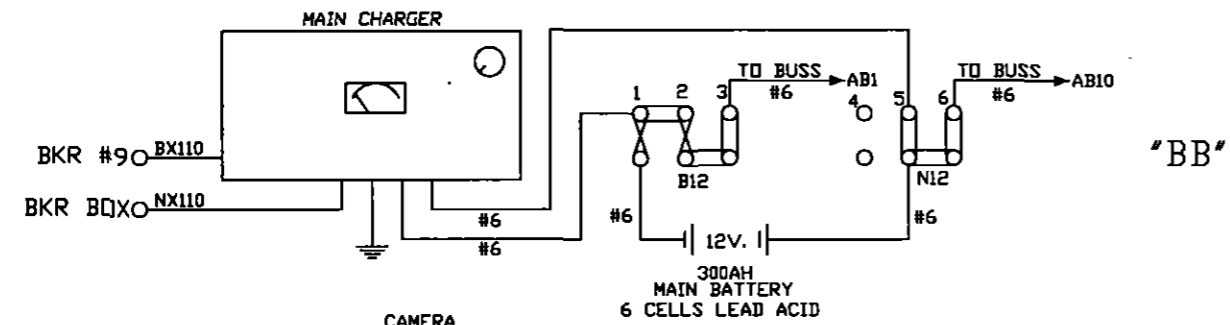
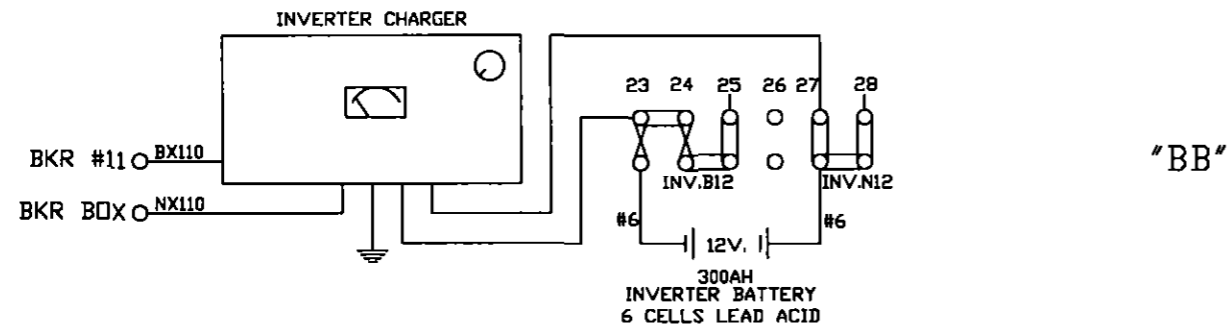
CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.



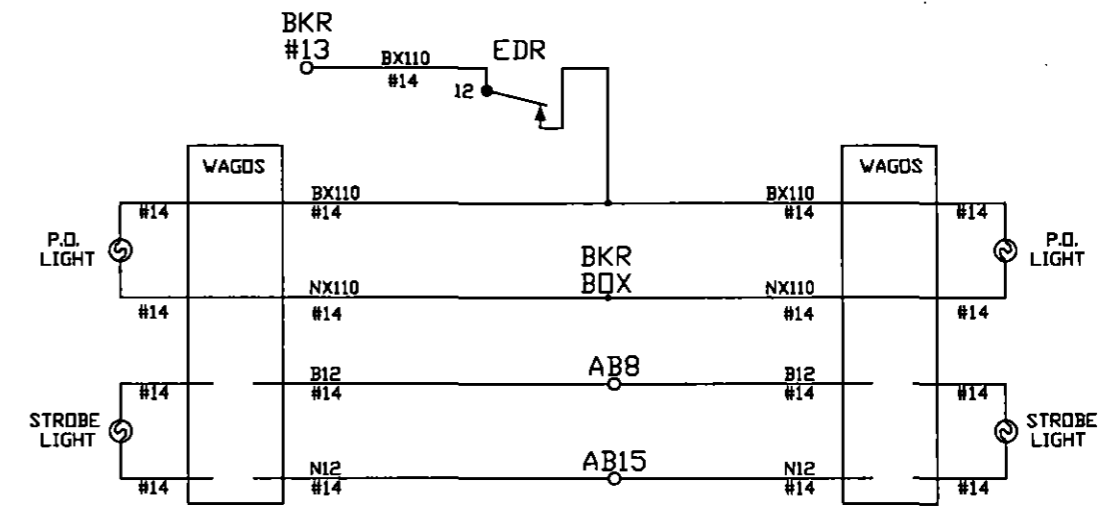
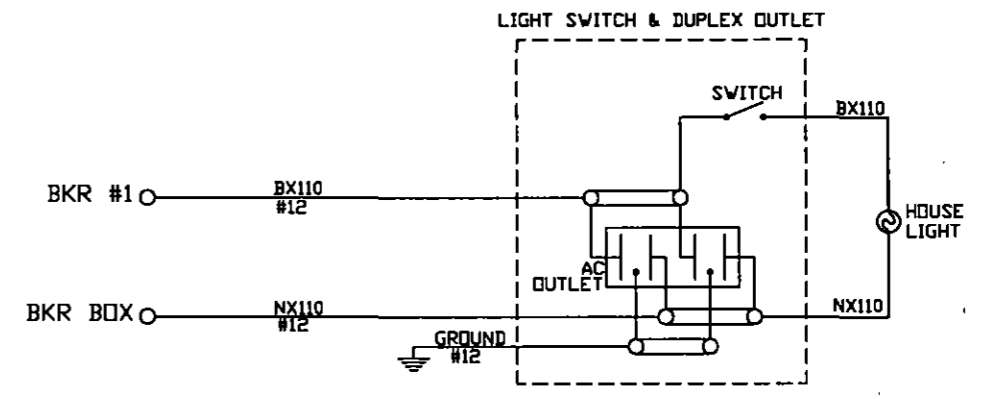
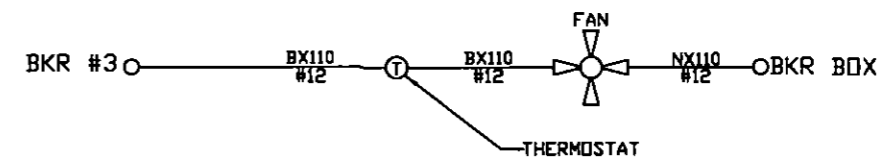
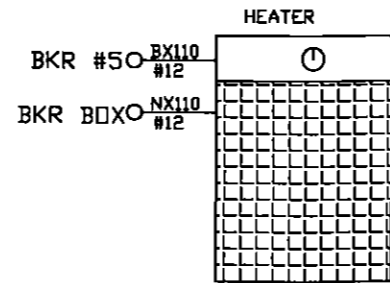
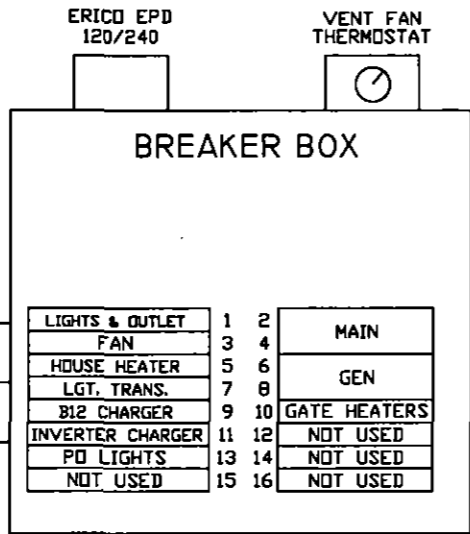
NOTES:
 ALL WIRE ON THIS SHEET IS #10AWG UNLESS OTHERWISE NOTED.
 ■ = TEMPORARY 'GATE READY' JUMPER.

FUTURE GATES

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE DATE: 03/01/2022	APPROVED BY:	DRAWN BY: DBS REVISED:
	MARKET STREET - DOT # 591 722L - M.P. 7.10 SNYDERTOWN, NORTHUMBERLAND COUNTY, PA		
CIRCUIT PLAN 'C'		DRAWING NUMBER 7.10	



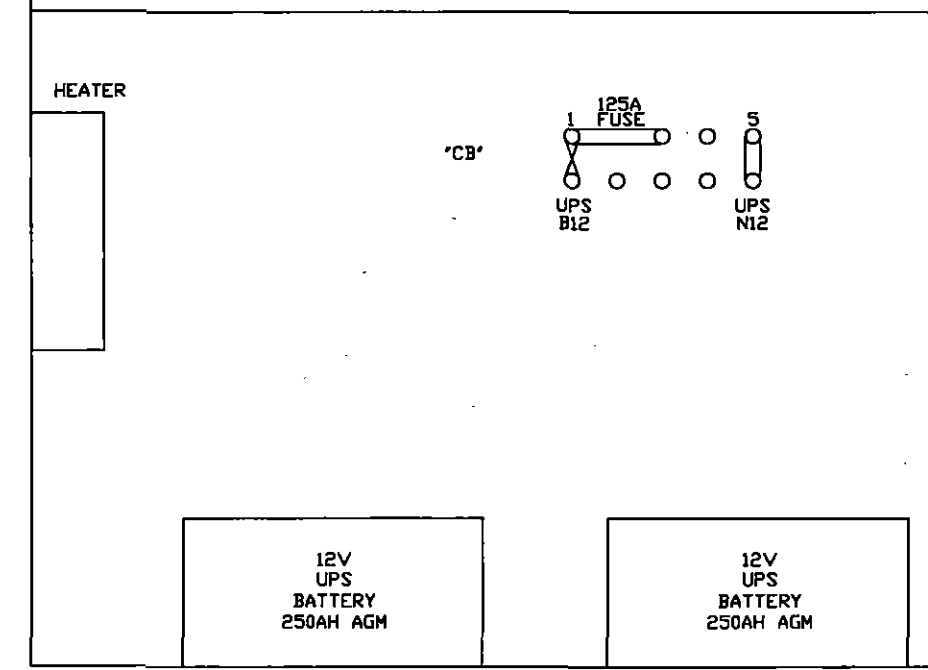
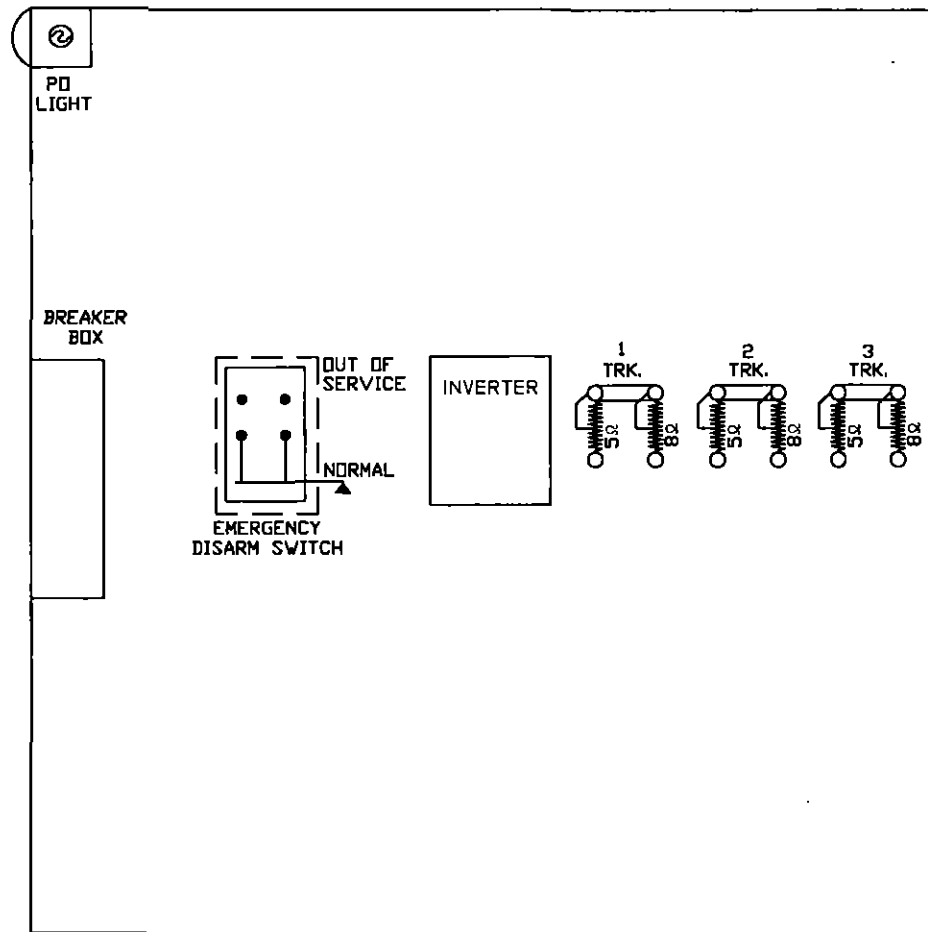
"CB"



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

AS WIRED		AS INSTALLED	
DIAMONDBACK SIGNAL			
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 03/01/2022		REVISED:	
MARKET STREET - DOT # 591 722L - M.P. 7.10 SNYDERTOWN, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN "D"			DRAWING NUMBER 7.10

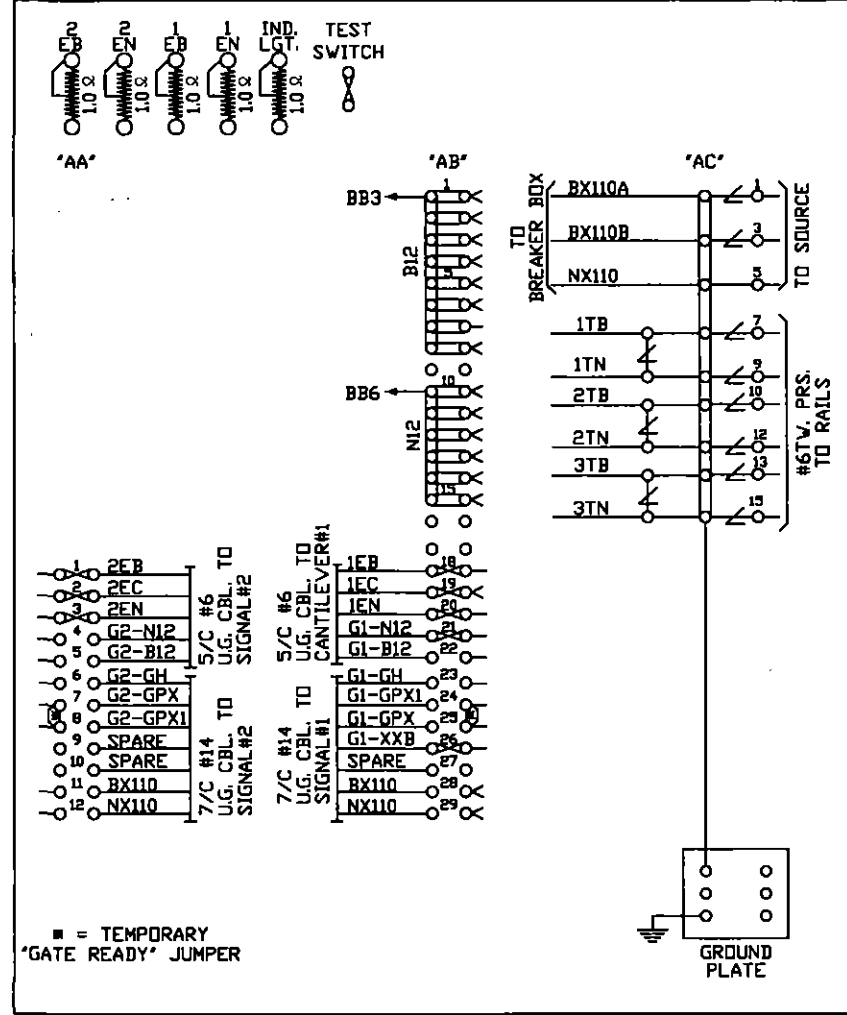
SIDE "C"



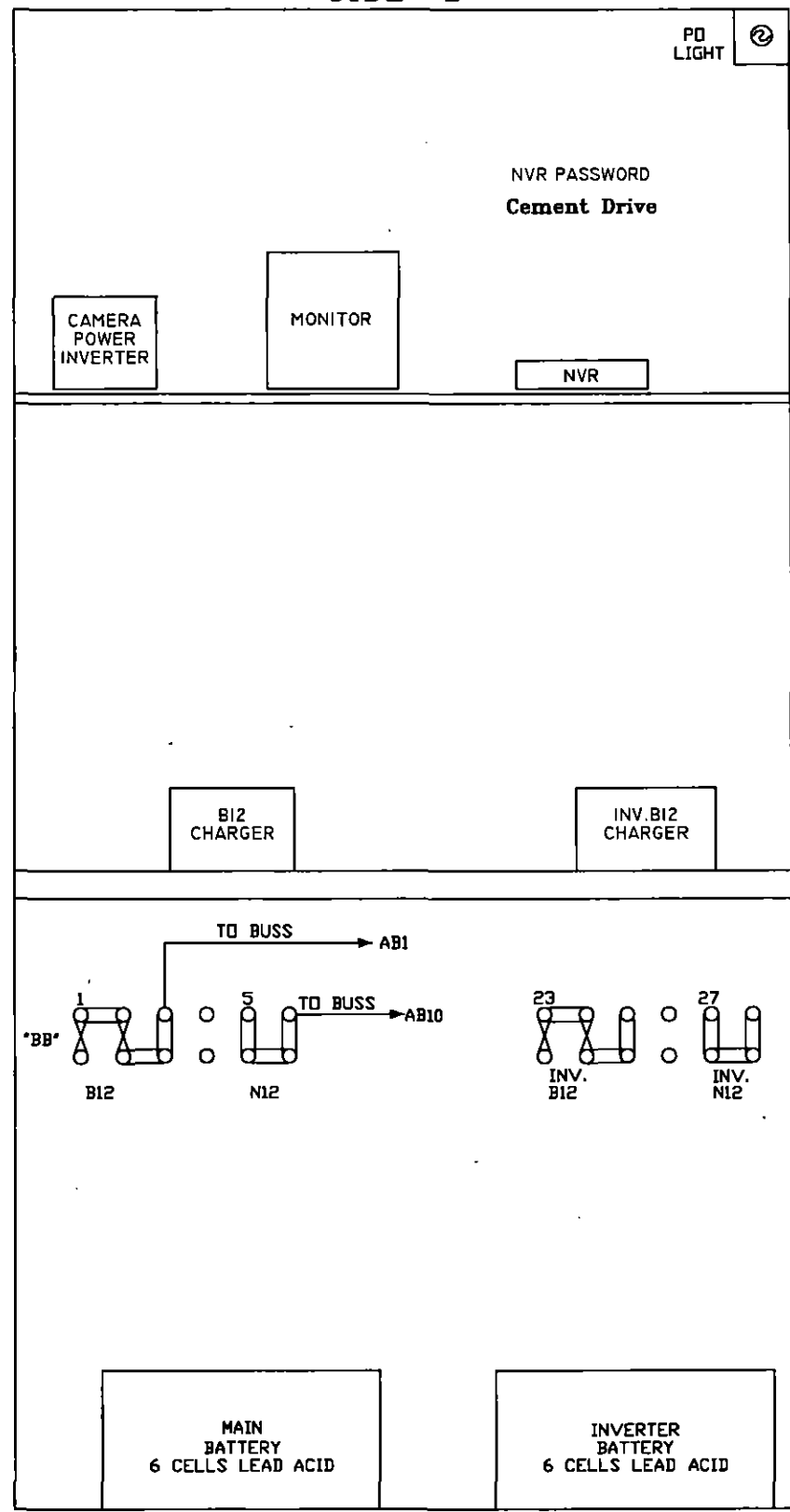
SIDE "A"

LIGHT TRANS.	POR	EOR	GPXR	XR	XGPR	EDR
	12 FB	12 FB	12 B	12 F	12	12 B
	15 FB	15 FB	15 B	15	15	15
	22	32 FB	22 B	22	32 F	22
	25	35 FB	23	25 F	35 F	25 F
			25	32	32 B	
			32	35	35	
			35			
	A62-406	A62-671	A62-310	A62-262	A62-360	A62-262
	400800	400700-X	400020	400000	400200	400000

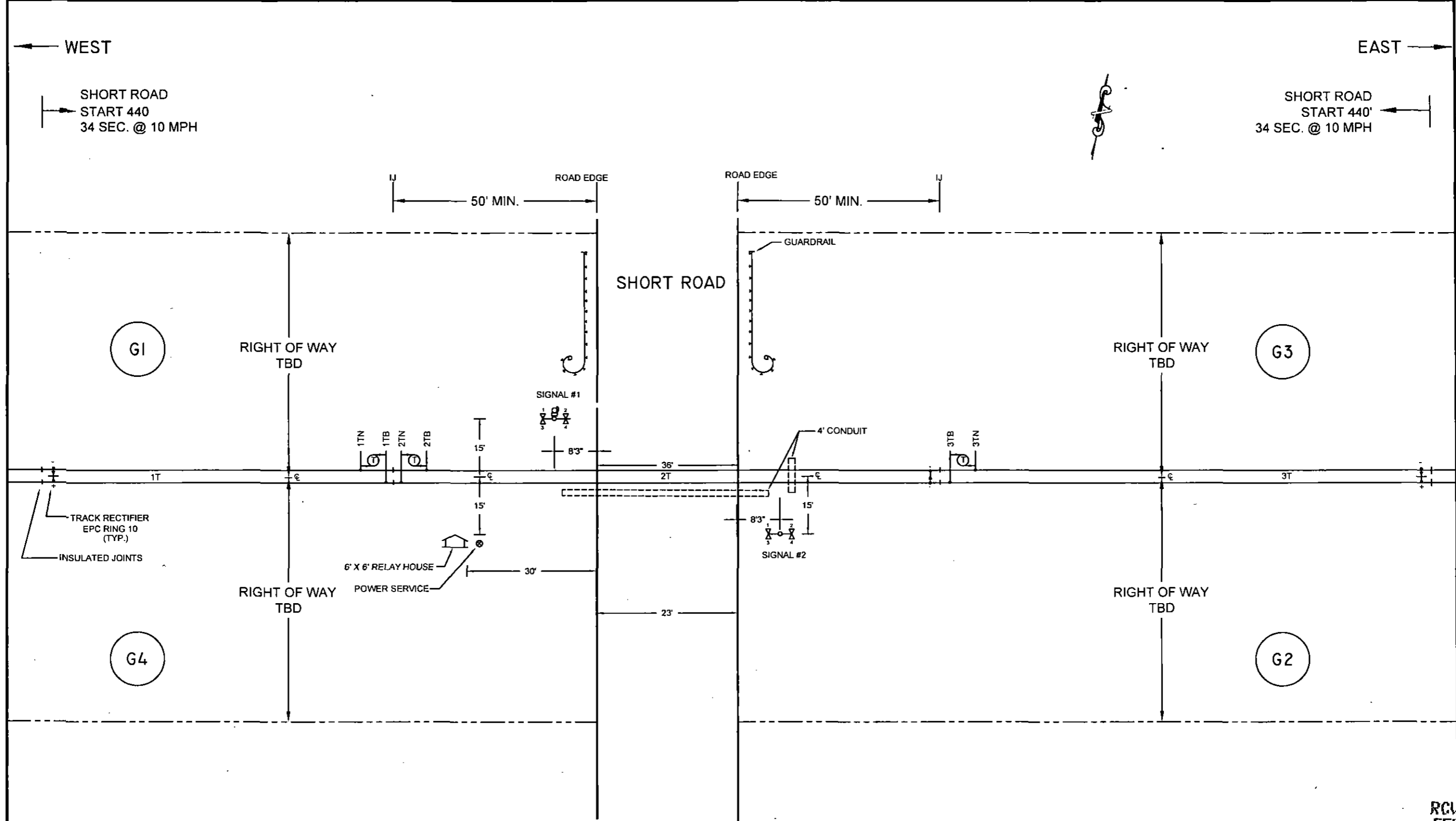
	SR	TR	2 TR	3 TR	3 SR	SLT-000 STICK RELEASE TIMER (10 MIN)
	12	12 F	12 F	12 F	12	
	15	15 FB	15	15 FB	15 F	
	22	22	22 B	22	22 B	
	23	23	23 F	23	23	
	25	25 F	25 F	25 F	25 F	
	32	32	32	32	32	
	35	35	35 B	35	35 B	
	A62-357	A62-120	A62-120	A62-120	A62-357	
	400211	400510	400510	400510	400211	



SIDE "B"



DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 03/01/2022		REVISED:
MARKET STREET - DOT # 591 722L - M.P. 7.10 SNYDERTOWN, NORTHUMBERLAND COUNTY, PA			
RELAY HOUSE LAYOUT		DRAWING NUMBER 7.10	



RCUD PUC SEC BUR
FEB 23 2023 AM 10:54

NOTES:

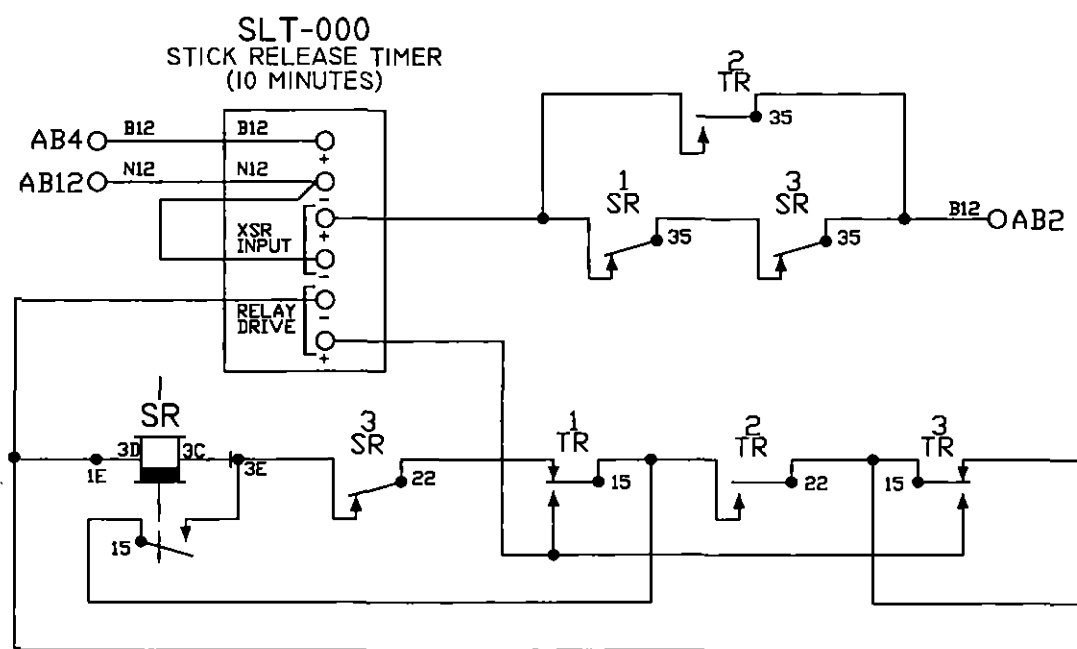
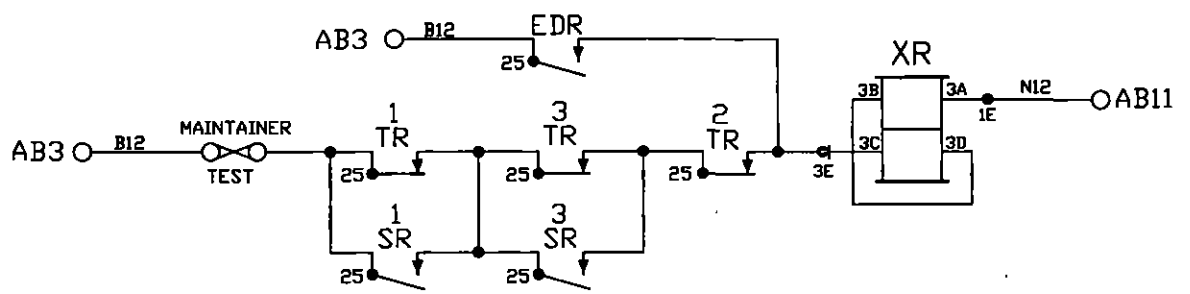
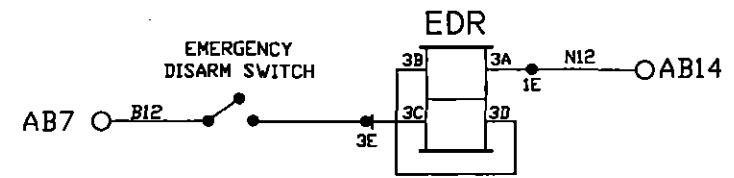
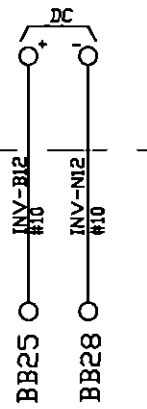
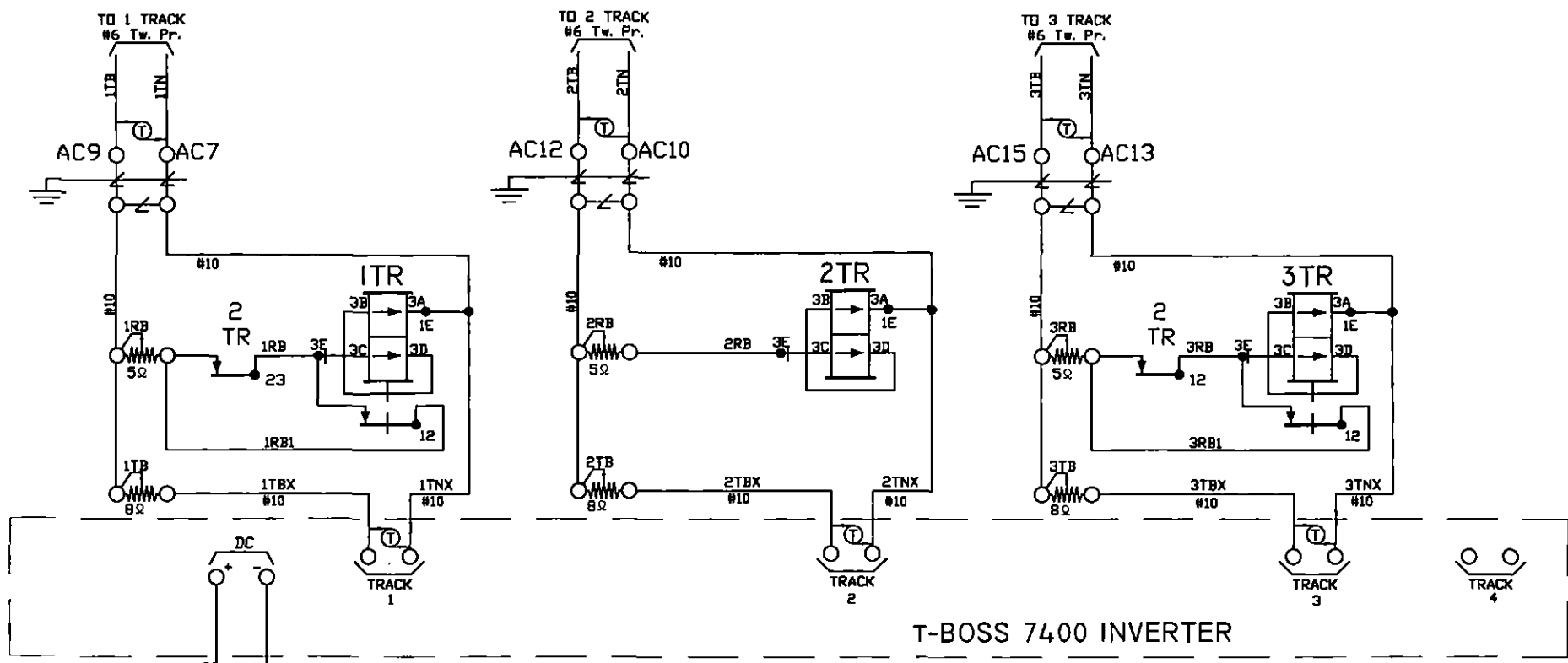
1. MATERIAL & INSTALLATION TO BE IN ACCORDANCE WITH MUTCD, STATE AND RAILROAD STANDARDS.
2. ALL DIMENSIONS ARE APPROXIMATE AND MAY VARY DUE TO ACTUAL FIELD CONDITIONS.
3. FLASHLIGHT SIGNALS & GATE LIGHTS TO BE LIGHT EMITTING DIODE ASSEMBLIES, (LED).
4. **T** DENOTES TWST PAIR.

CABLE RUN TABULATION

- | | |
|---------------------|-----------------------|
| HOUSE TO SIGNAL #1 | - 5/C #6 UG CABLE |
| HOUSE TO SIGNAL #2 | - 7/C #14 UG CABLE |
| HOUSE TO AC SERVICE | - 5/C #8 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 TWISTED PAIR |
| | - 2/C #6 TWISTED PAIR |
| | - 2/C #6 TWISTED PAIR |

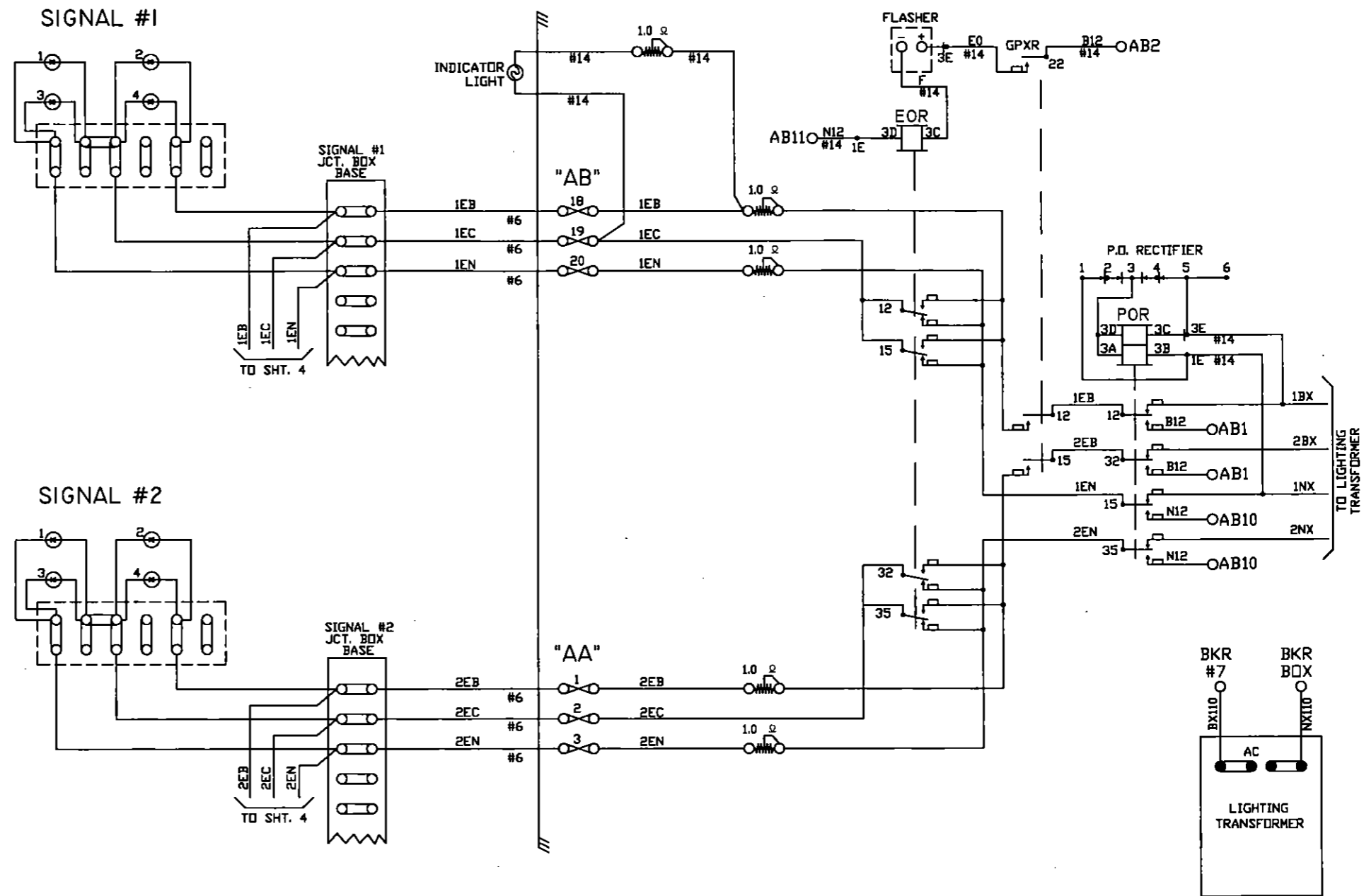
DIAMONDBACK SIGNAL
 (410) 795-9601
 5965 EXCHANGE DRIVE
 SUITE "D"
 SYKESVILLE, MD
 21784

AS WIRED		AS INSTALLED	
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 03/06/2022		REVISED:	
SHORT ROAD - DOT # 591 720X - M.P. 9.42 SNYDERTOWN NORTHUMBERLAND COUNTY, PA			
TRACK & CABLE PLAN			DRAWING NUMBER 9.42



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

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED		AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
	DATE: 03/06/2022		REVISED:	
SHORT ROAD - DOT # 591 720X - M.P. 9.42 SNYDERTOWN NORTHUMBERLAND COUNTY, PA				
CIRCUIT PLAN 'A'			DRAWING NUMBER 9.42	

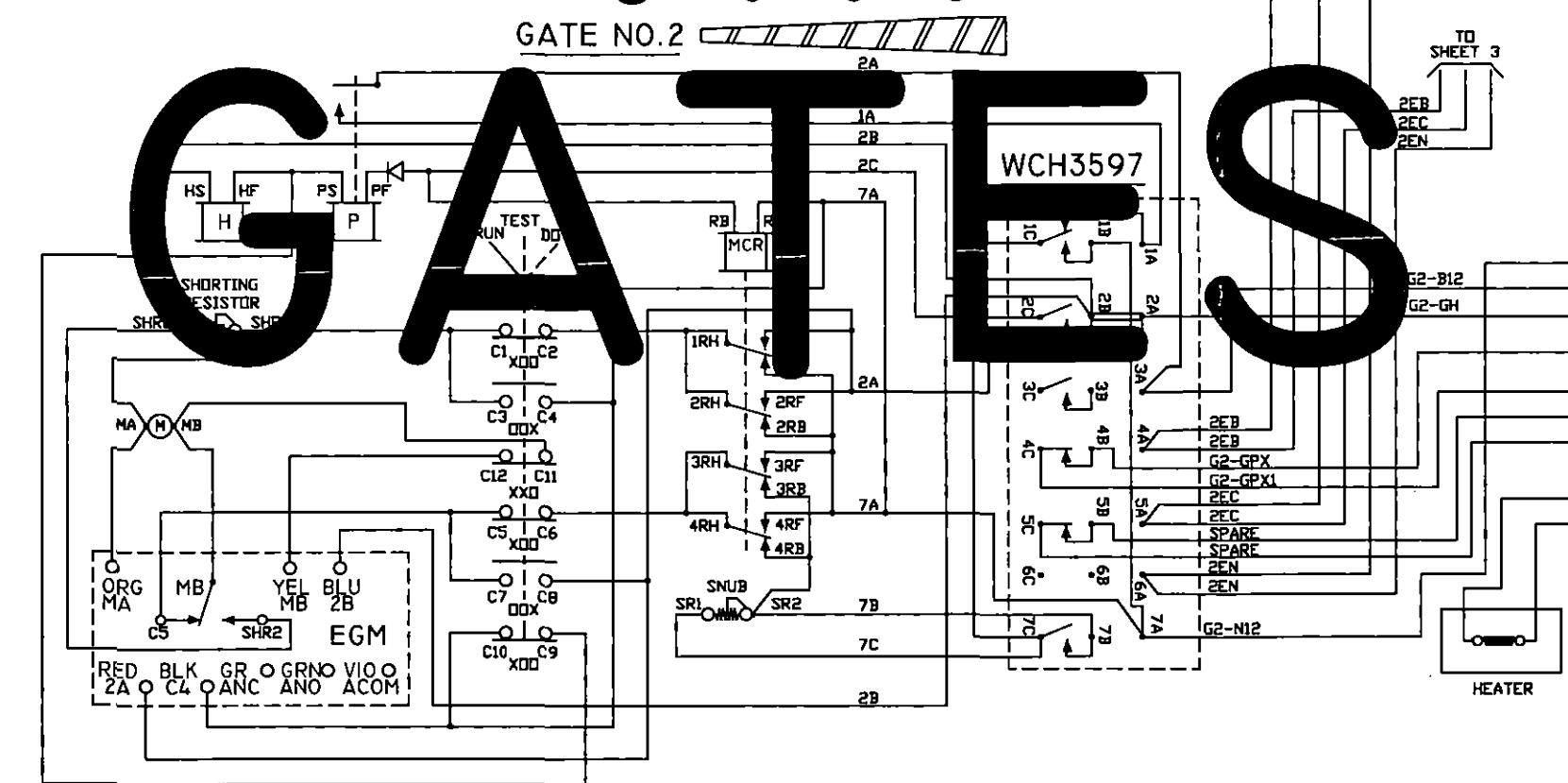
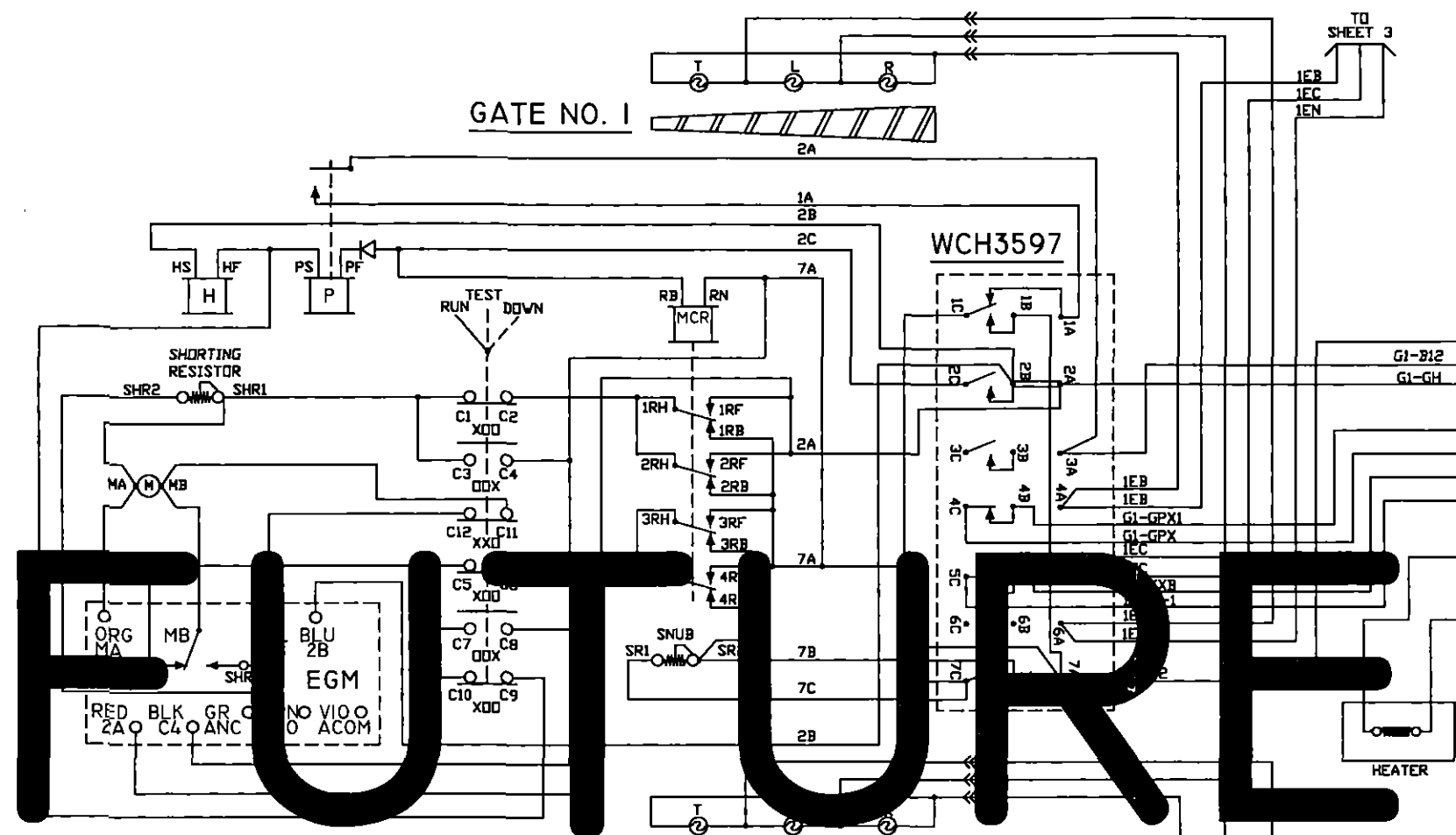


NOTE:
ALL WIRE THIS SHEET IS #10 AWG. FLEX
UNLESS OTHERWISE NOTED.

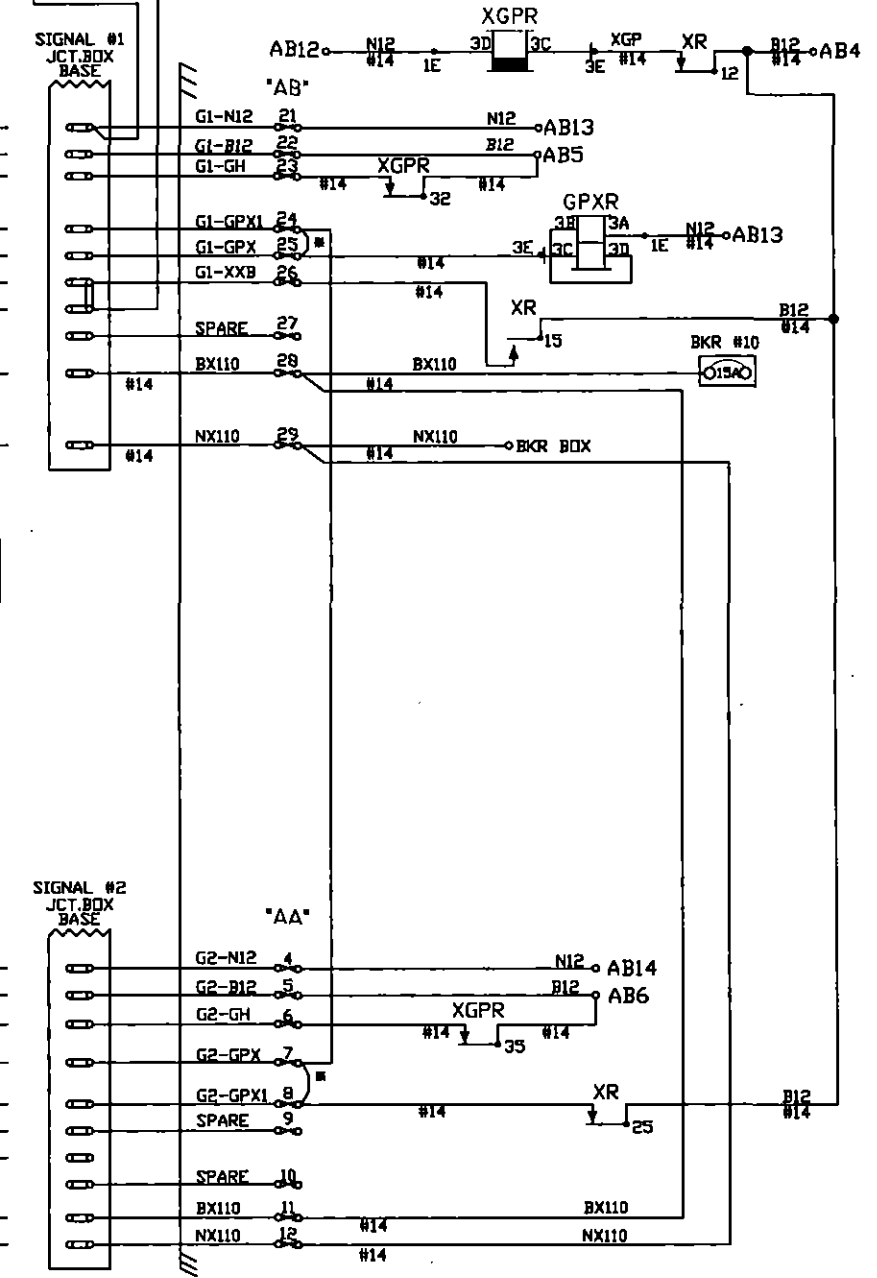
**DIAMONDBACK
SIGNAL**

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

AS WIRED		AS INSTALLED	
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 03/06/2022		REVISED:	
SHORT ROAD - DOT # 591 720X - M.P. 9.42 SNYDERTOWN NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN "B"			DRAWING NUMBER 9.42

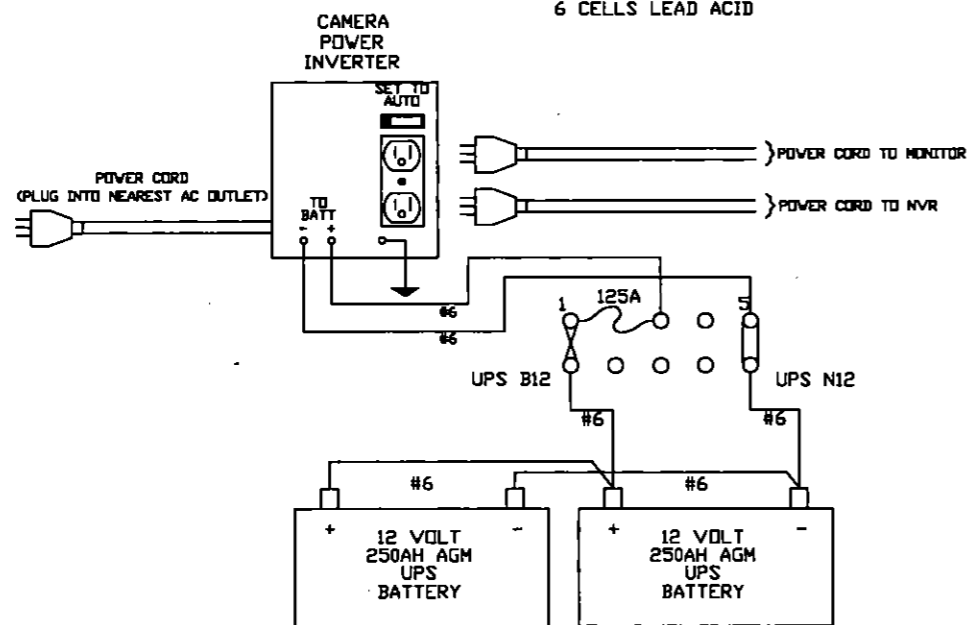
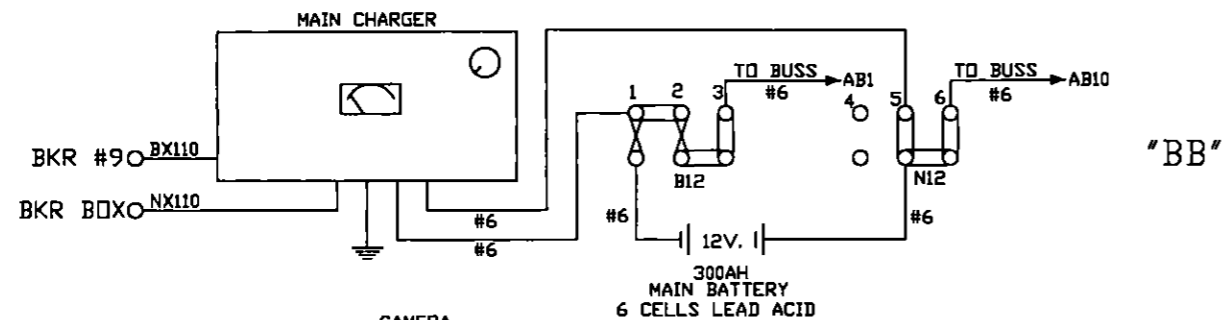
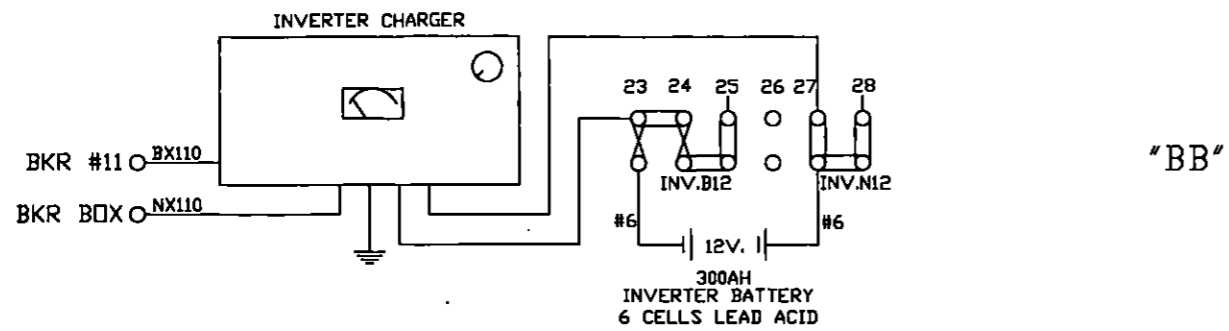


CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.

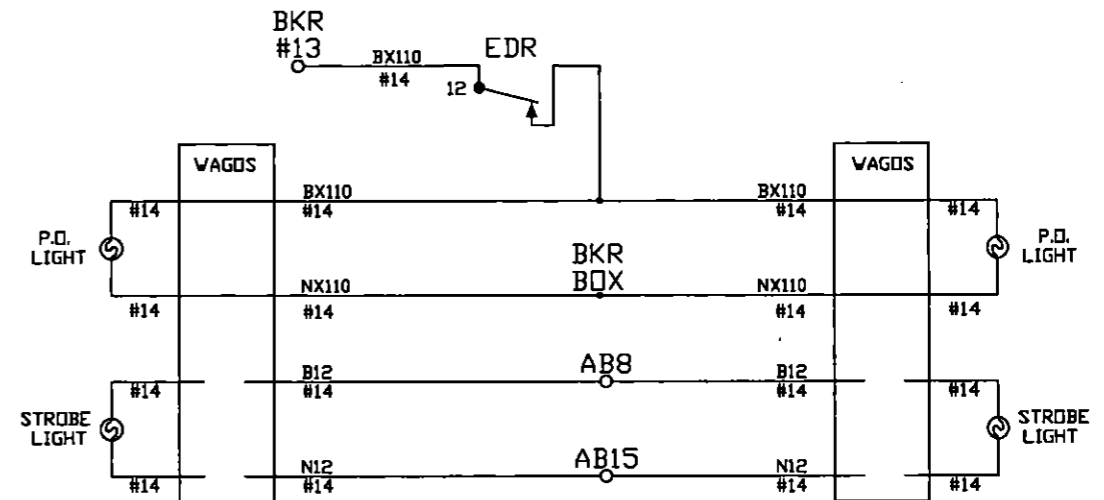
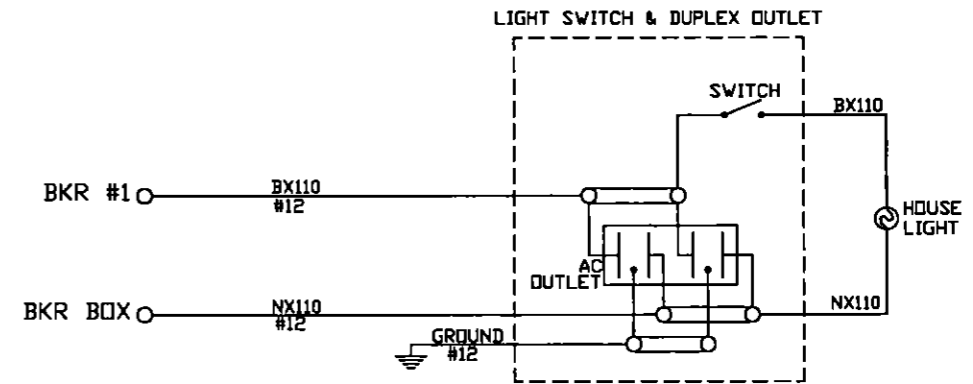
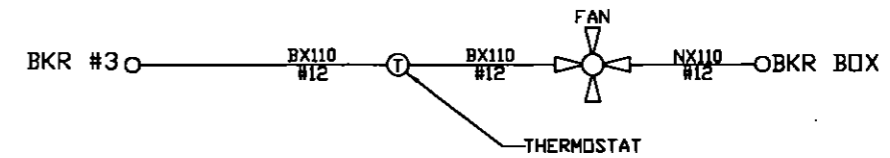
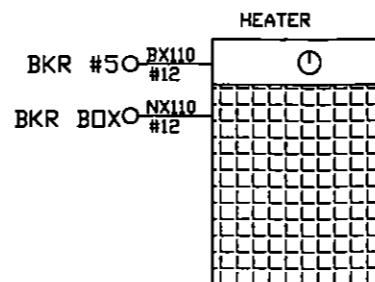
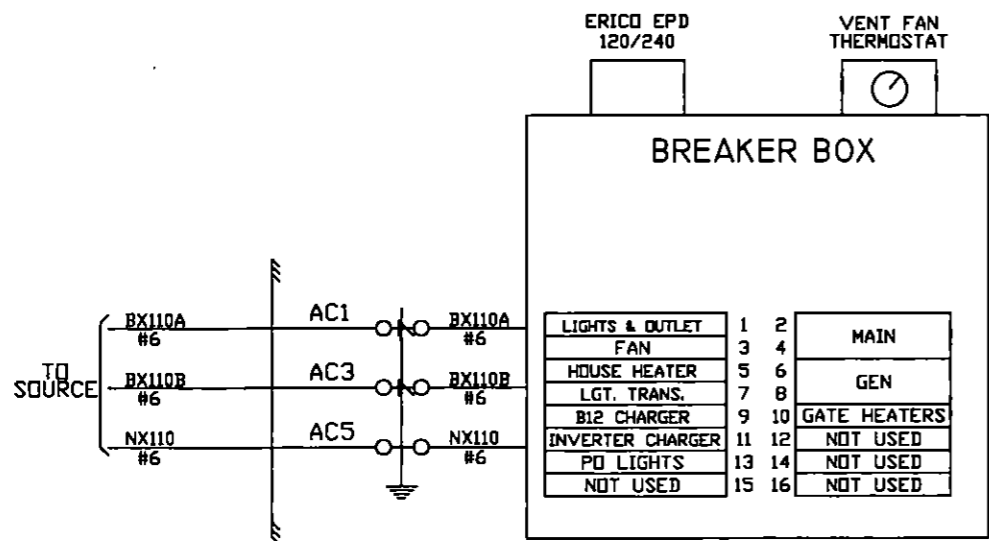


NOTES:
 ALL WIRE ON THIS SHEET IS #10AWG
 UNLESS OTHERWISE NOTED.
 * = TEMPORARY 'GATE READY' JUMPER.

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED		AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
	DATE: 03/06/2022		REVISED:	
SHORT ROAD - DOT # 591 720X - M.P. 9.42 SNYDERTOWN NORTHUMBERLAND COUNTY, PA				
CIRCUIT PLAN 'C'			DRAWING NUMBER 9.42	



"CB"

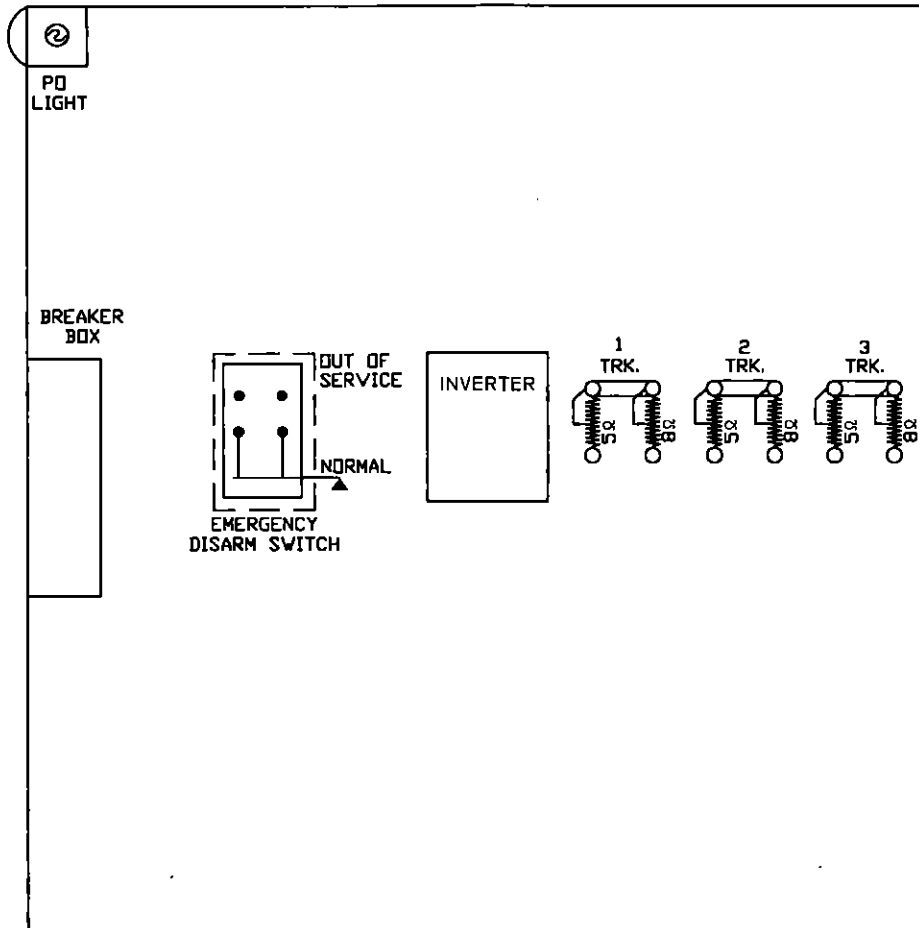


NOTE:
ALL WIRE THIS SHEET IS #10 AVG FLEX
UNLESS OTHERWISE NOTED.

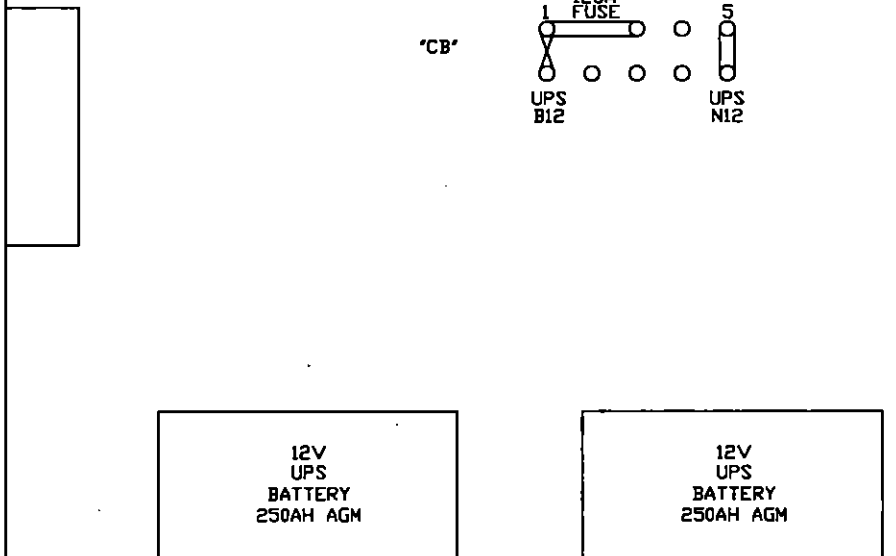
AS WIRED AS INSTALLED

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES	
	SCALE: NONE	APPROVED BY:
	DATE: 03/06/2022	DRAWN BY: DBS
	SHORT ROAD - DOT # 591 720X - M.P. 9.42 SNYDERTOWN NORTHUMBERLAND COUNTY, PA	
CIRCUIT PLAN "D"		DRAWING NUMBER 9.42

SIDE "C"

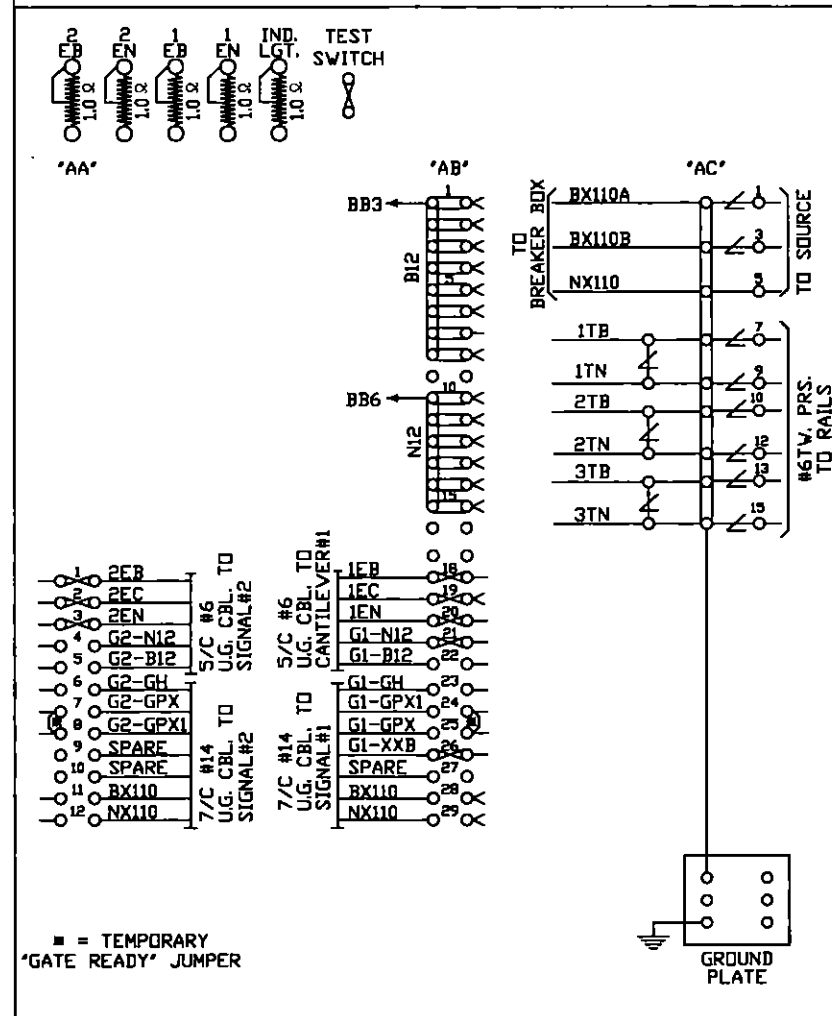


HEATER

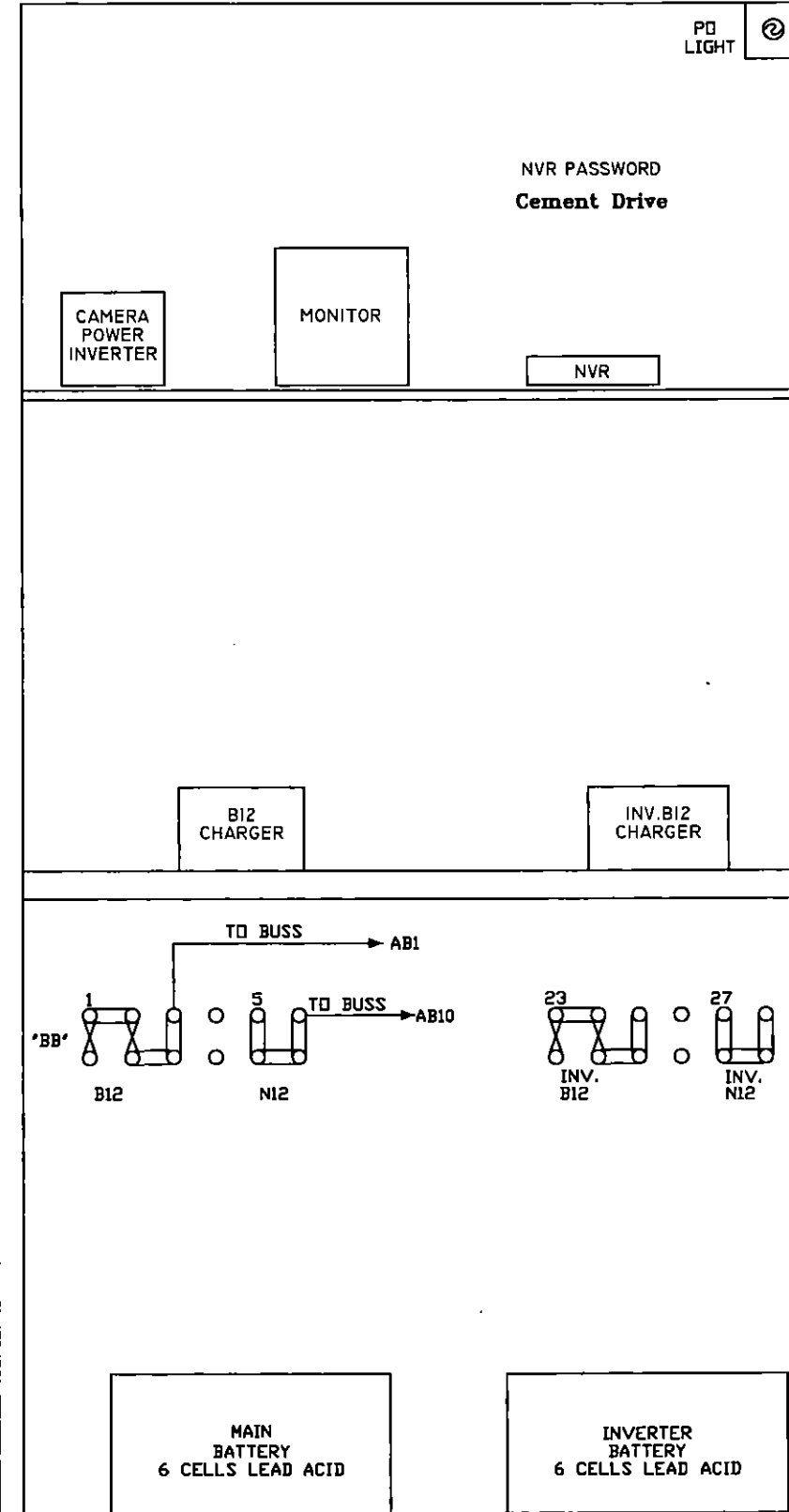


SIDE "A"

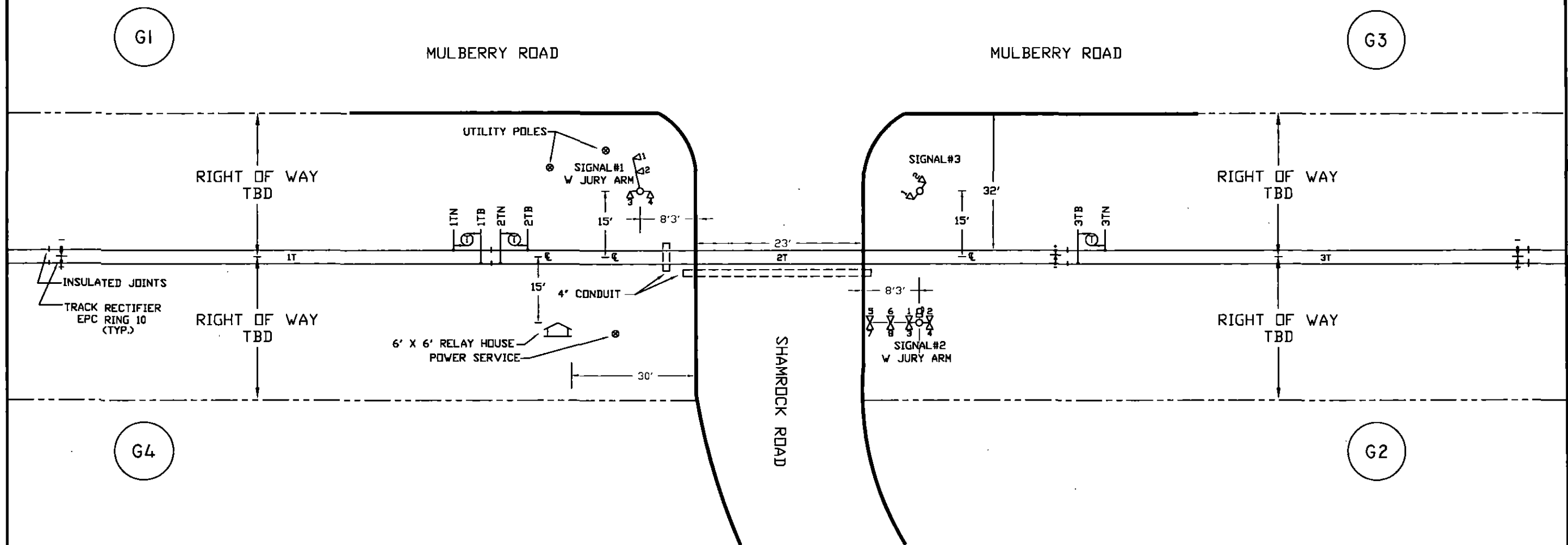
LIGHT TRANS.	POR	EOR	GPXR	XR	XGPR	EDR
	12 FB	12 FB	12 B	12 F	12	12 B
	15 FB	15 FB	15 B	15	15	15
	22	32 FB	22 B	22	32 F	22
	25	35 FB	23	25 F	35 F	25 F
32 FB		25	32		32 B	
35 FB		32	35 B		35	
		35				
A62-406	A62-671	A62-310	A62-262	A62-360	A62-262	
400800	400700-X	400020	400000	400200	400000	



SIDE "B"



DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED		
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
	DATE: 03/06/2022		REVISED:	
SHORT ROAD - DOT # 591 720X - M.P. 9.42 SNYDERTOWN NORTHUMBERLAND COUNTY, PA				
RELAY HOUSE LAYOUT			DRAWING NUMBER 9.42	



NOTES:

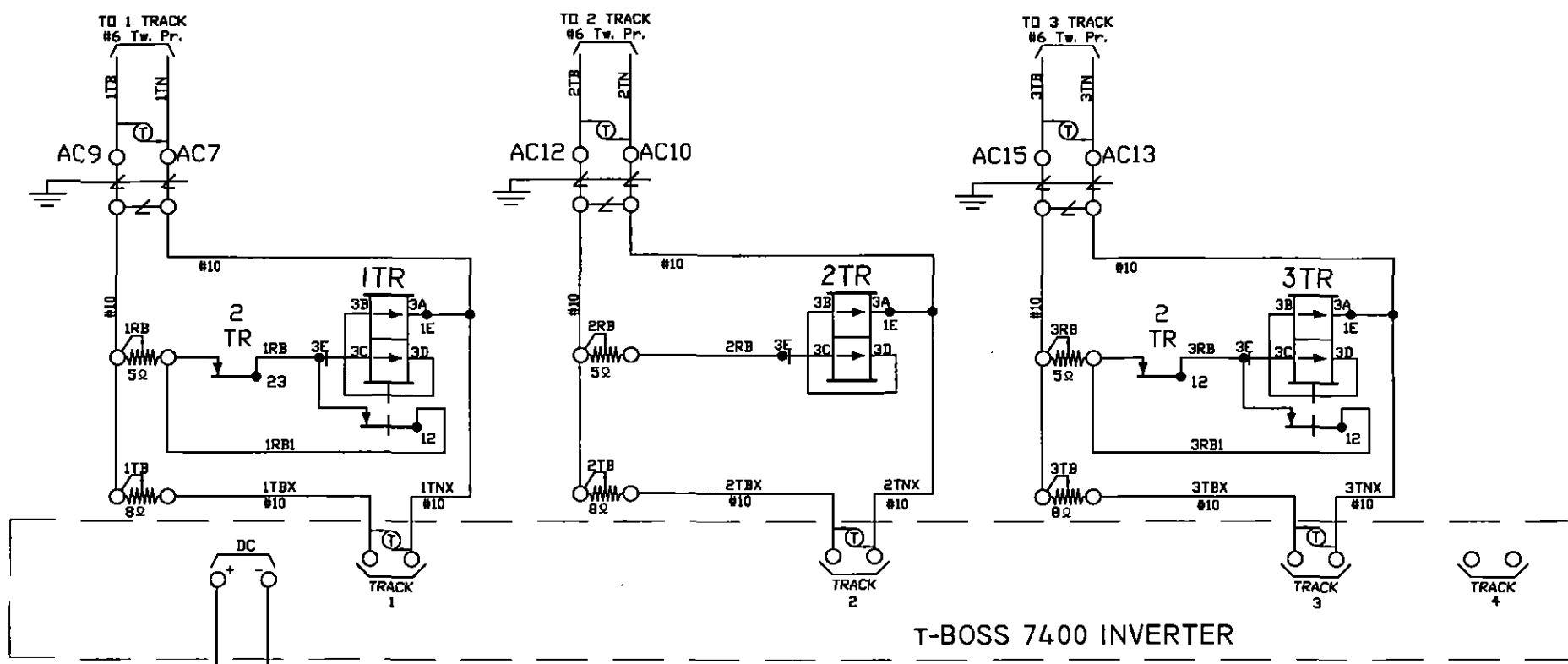
1. MATERIAL & INSTALLATION TO BE IN ACCORDANCE WITH MUTCD, STATE AND RAILROAD STANDARDS.
2. ALL DIMENSIONS ARE APPROXIMATE AND MAY VARY DUE TO ACTUAL FIELD CONDITIONS.
3. FLASHLIGHT SIGNALS & GATE LIGHTS TO BE LIGHT EMITTING DIODE ASSEMBLIES, (LED).
4. \textcircled{T} DENOTES TWIST PAIR.

CABLE RUN TABULATION

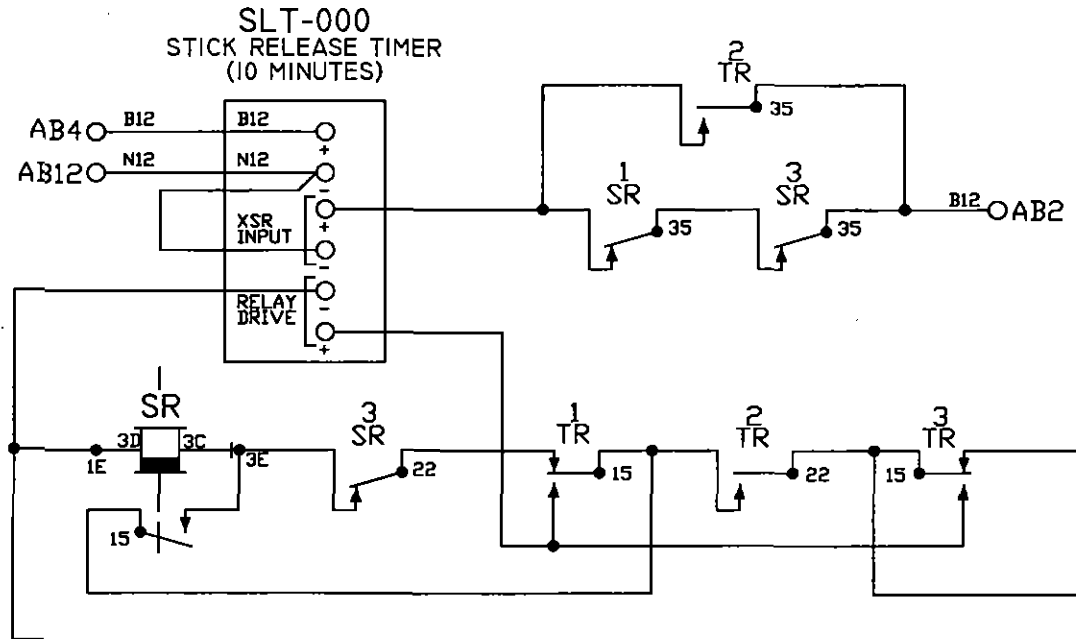
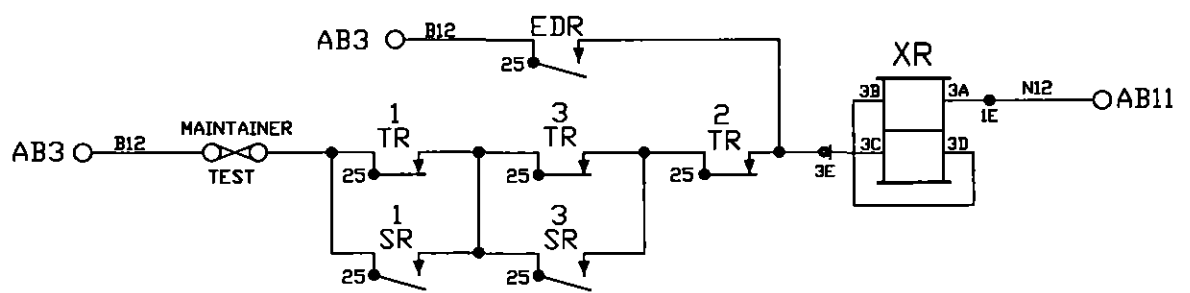
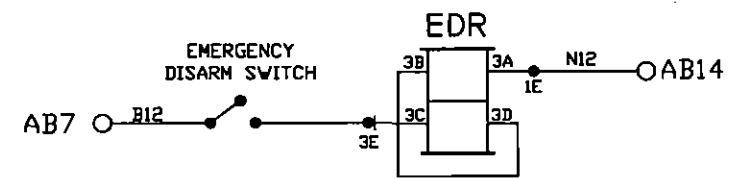
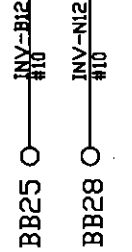
HOUSE TO SIGNAL #1	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO SIGNAL #2	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO SIGNAL #3	- 5/C #6 UG CABLE
HOUSE TO AC SERVICE	- 3/C #9 UG CABLE
HOUSE TO 1TN & 1TB	- 2/C #6 TWISTED PAIR
HOUSE TO 2TN & 2TB	- 2/C #6 TWISTED PAIR
HOUSE TO 3TN & 3TB	- 2/C #6 TWISTED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

RCVD PLC SEC BUR
FEB 23 2023 AM 10:54

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED		AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
	DATE: 03/07/2022		REVISED:	
SHAMROCK ROAD - DOT # 534 828D - M.P. 12.18 PAXINOS, NORTHUMBERLAND COUNTY, PA				
TRACK & CABLE PLAN			DRAWING NUMBER 12.18	



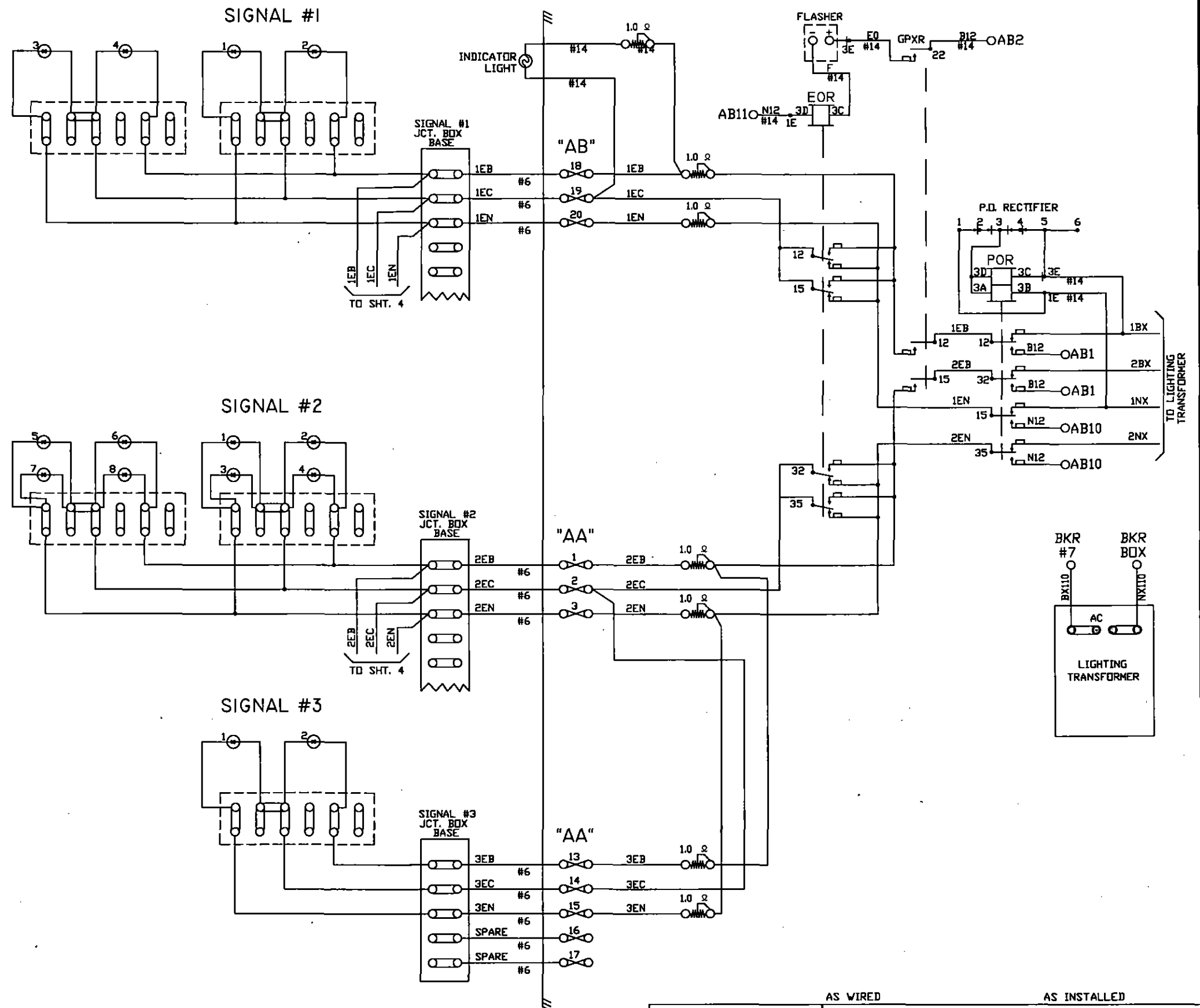
T-BOSS 7400 INVERTER



- 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

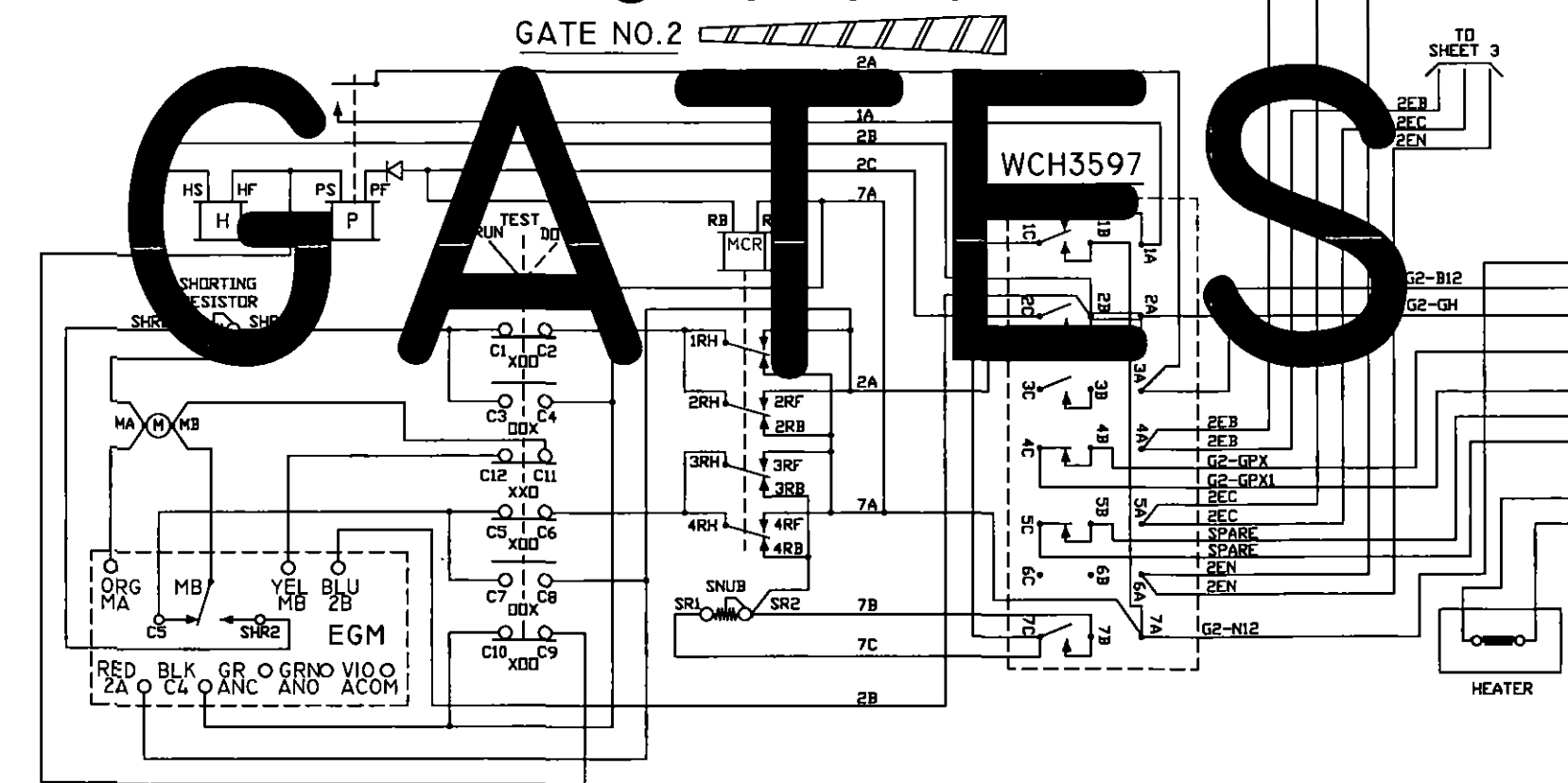
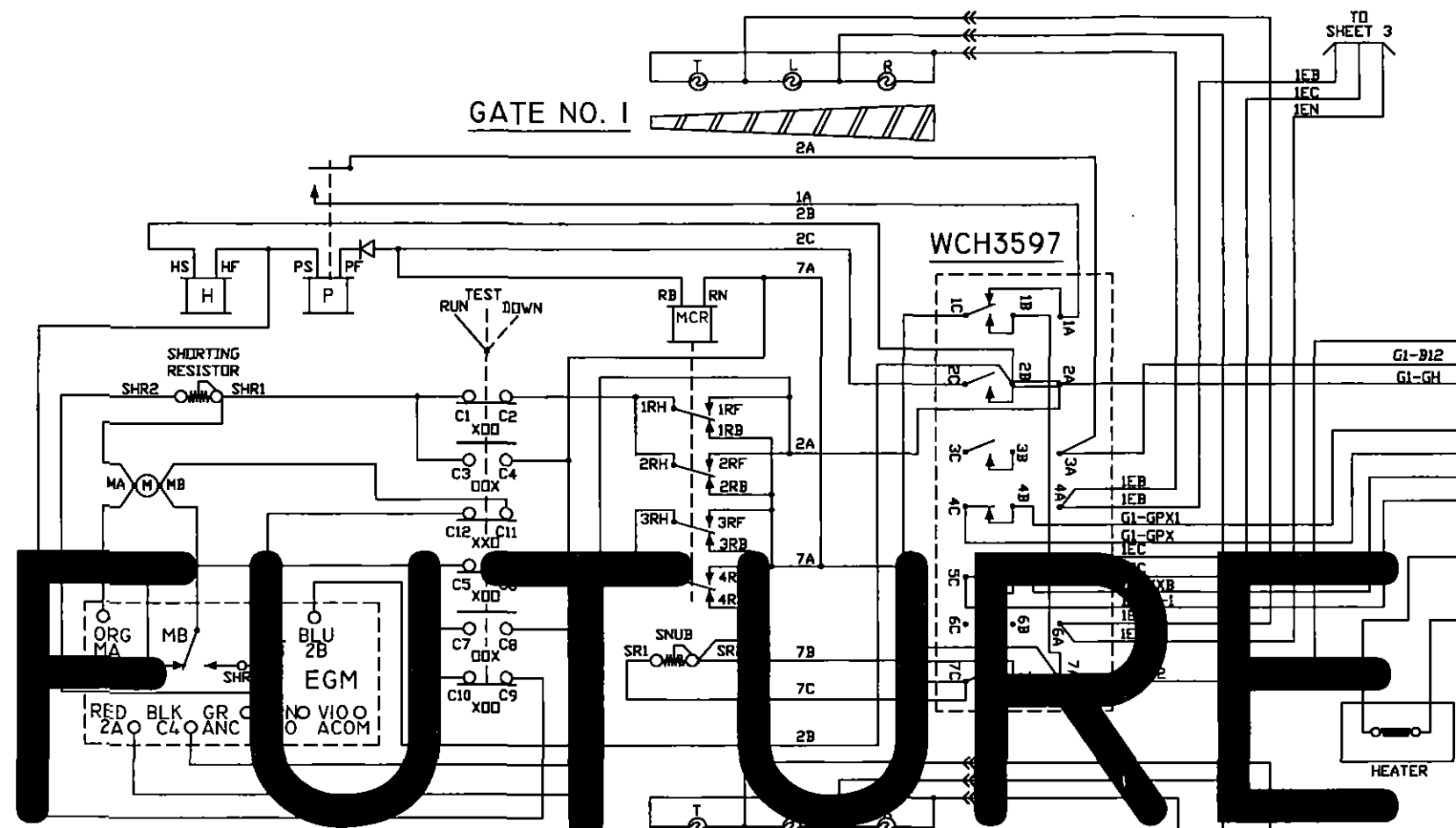
AS WIRED		AS INSTALLED	
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 03/07/2022		REVISED:	
SHAMROCK ROAD - DOT # 534 828D - M.P. 12.18 PAXINOS, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN 'A'			DRAWING NUMBER 12.18



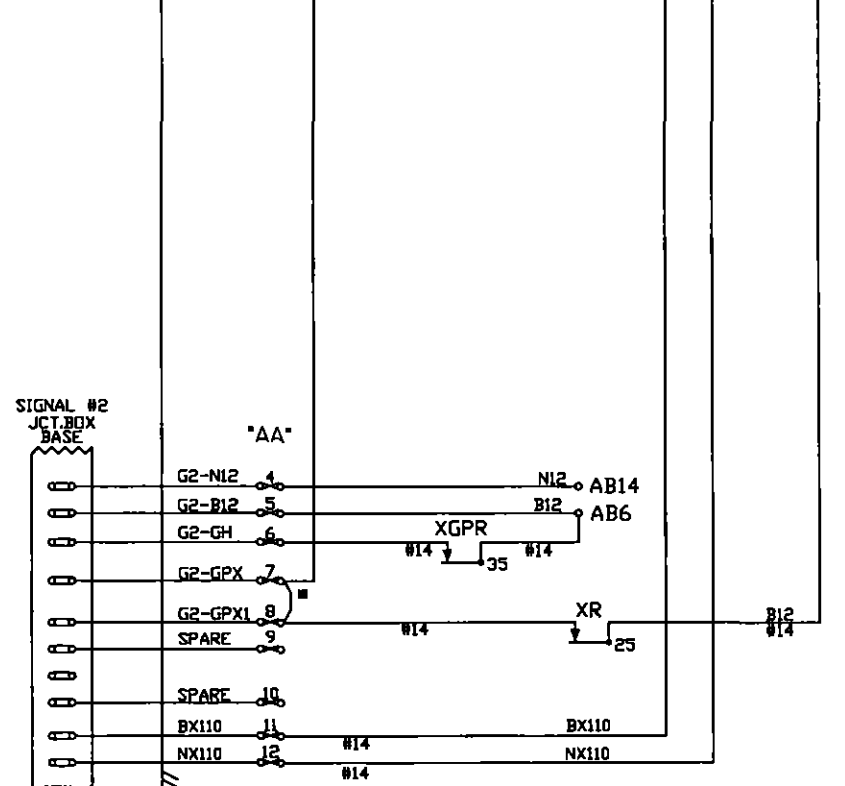
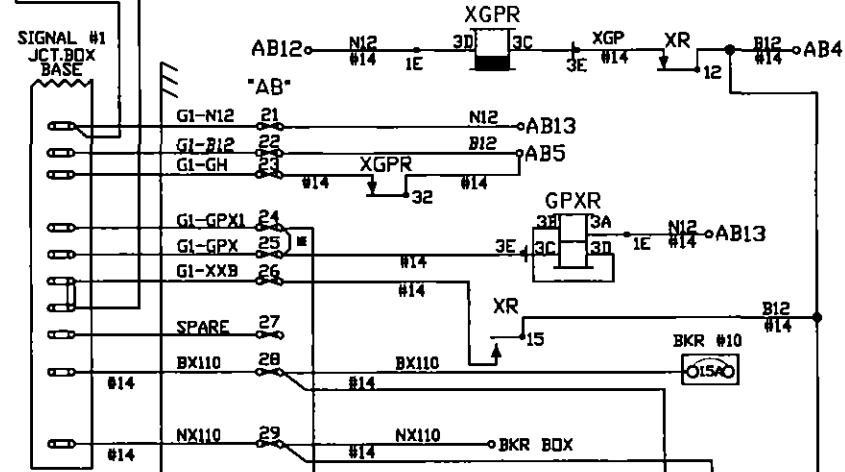
NOTE:
ALL WIRE THIS SHEET IS #10 AWG. FLEX
UNLESS OTHERWISE NOTED.

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

AS WIRED		AS INSTALLED	
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 03/07/2022		REVISED:	
SHAMROCK ROAD - DOT # 534 828D - M.P. 12.18 PAXINOS, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN "B"			DRAWING NUMBER 12.18

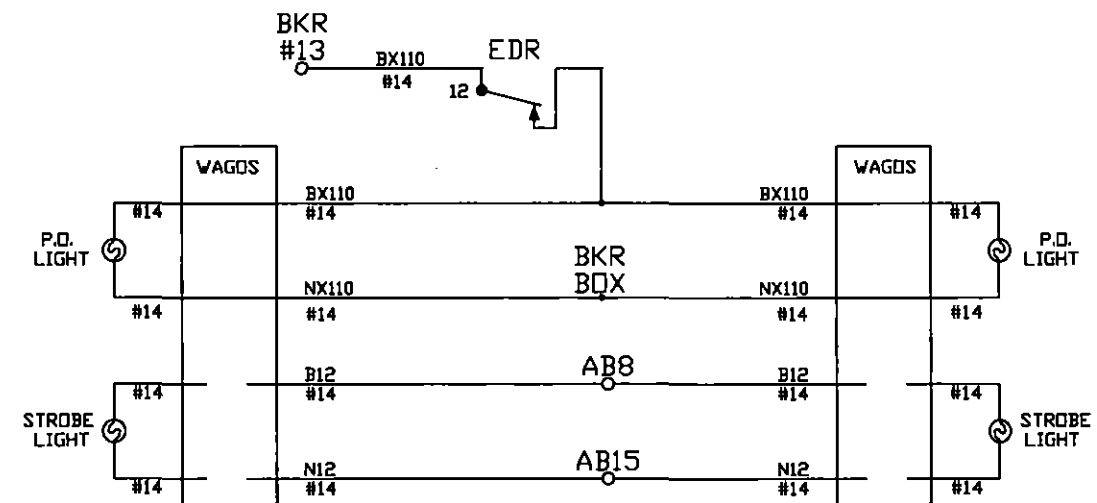
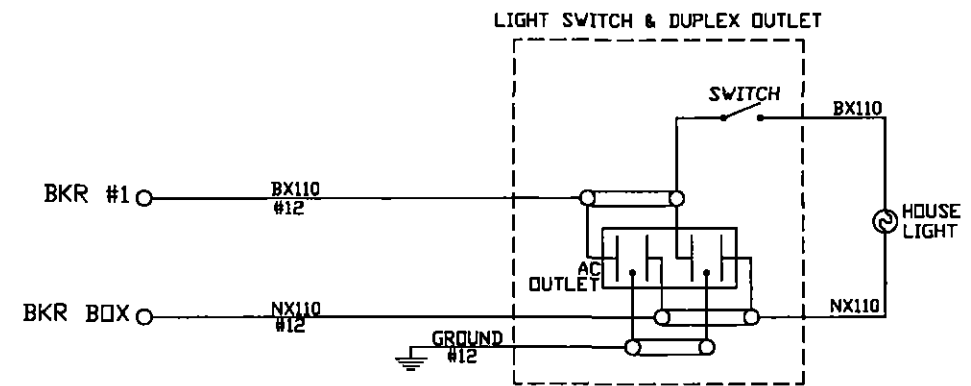
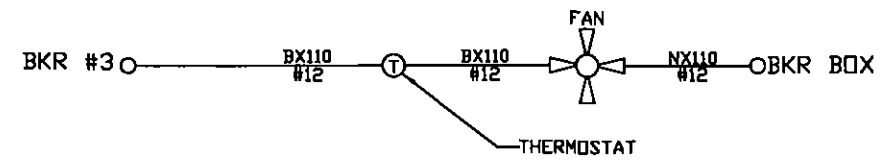
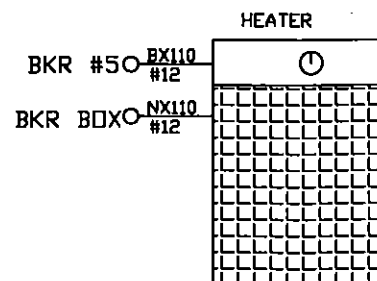
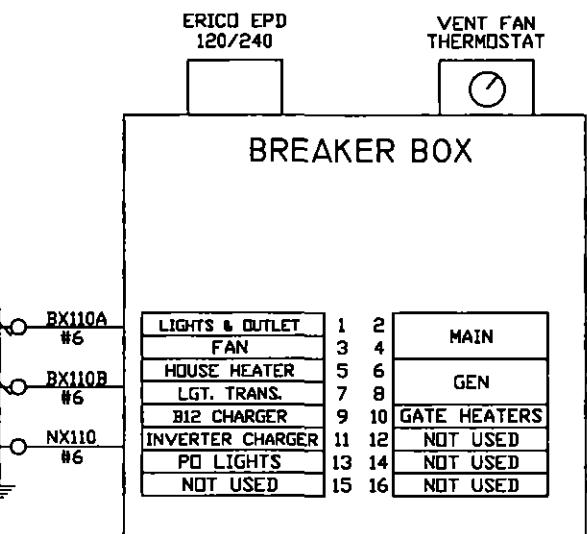
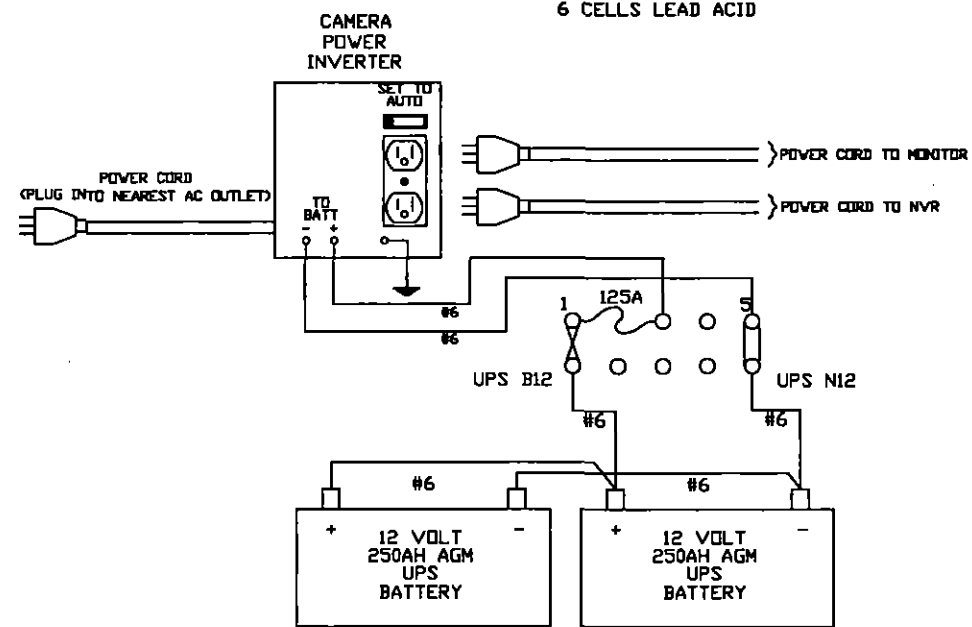
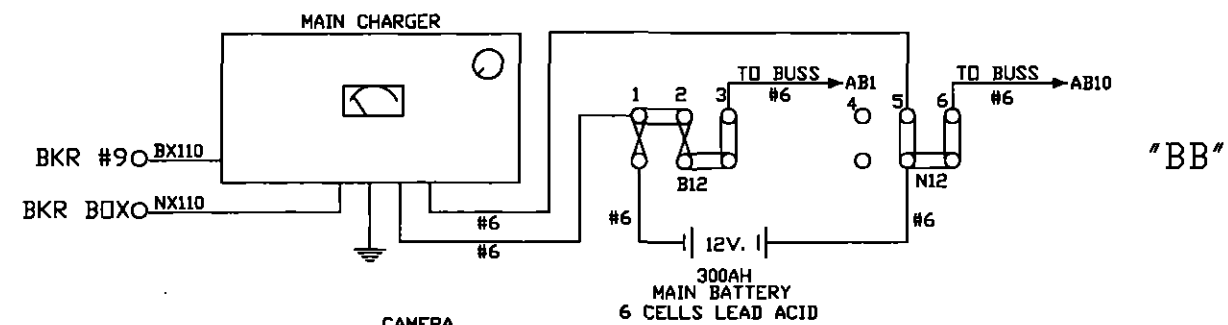
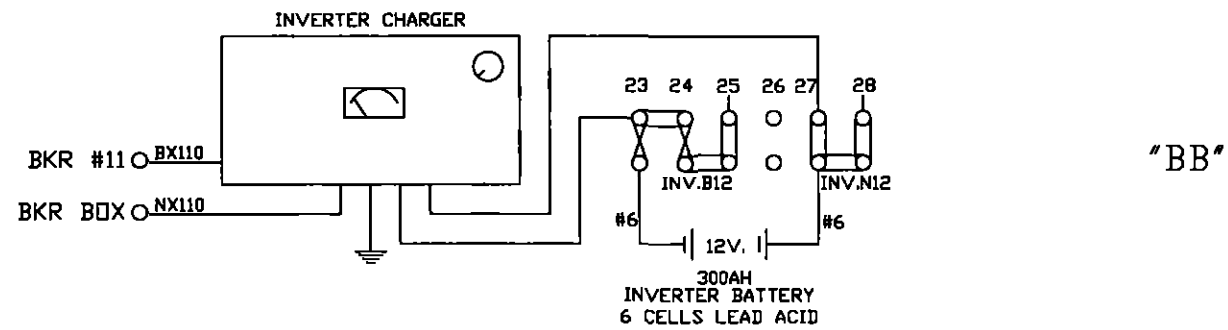


CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.



NOTES:
 ALL WIRE ON THIS SHEET IS #10AWG UNLESS OTHERWISE NOTED.
 * = TEMPORARY 'GATE READY' JUMPER.

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED		AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
	DATE: 03/07/2022		REVISED	
SHAMROCK ROAD - DOT # 534 828D - M.P. 12.18 PAXINOS, NORTHUMBERLAND COUNTY, PA				
CIRCUIT PLAN 'C'			DRAWING NUMBER 12.18	

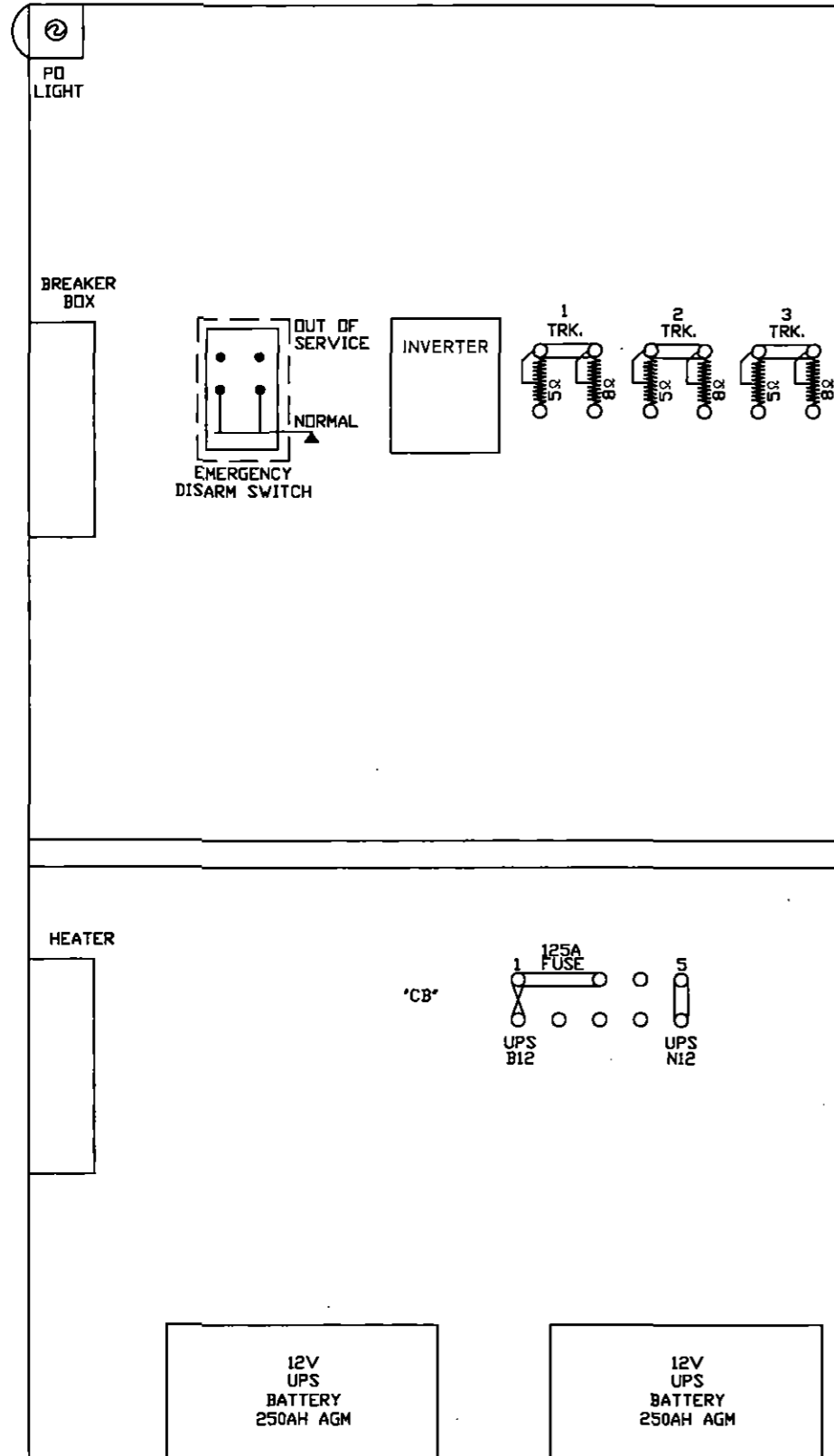


NOTE:
ALL WIRE THIS SHEET IS #10 AWG FLEX
UNLESS OTHERWISE NOTED.

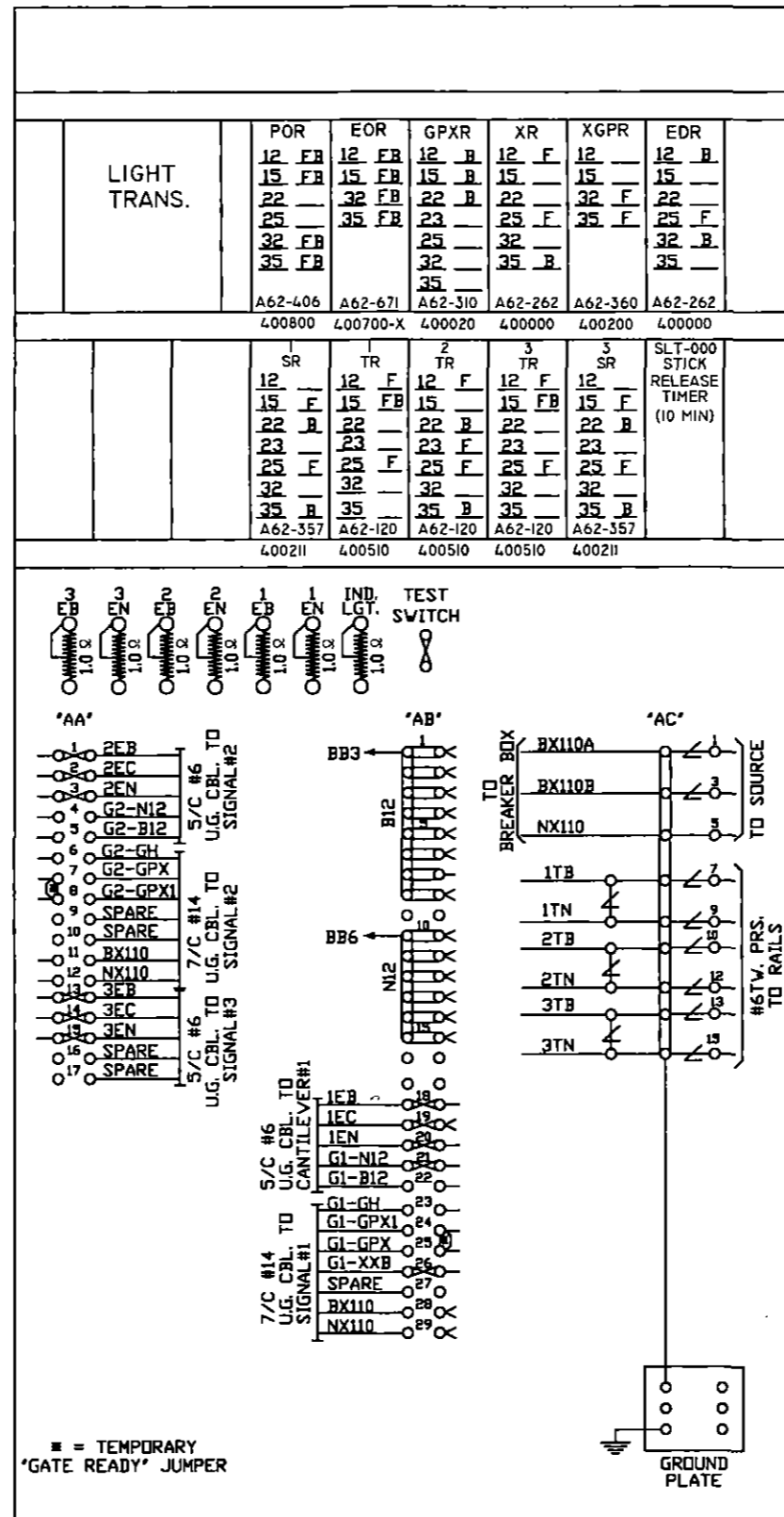
AS WIRED AS INSTALLED

DIAMONDBACK SIGNAL	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES	
	SCALE: NONE	APPROVED BY:
(410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	DATE: 03/07/2022	DRAWN BY: DBS REVISED:
SHAMROCK ROAD - DOT # 534 828D - M.P. 12.18 PAXINOS, NORTHUMBERLAND COUNTY, PA		DRAWING NUMBER 12.18
CIRCUIT PLAN "D"		

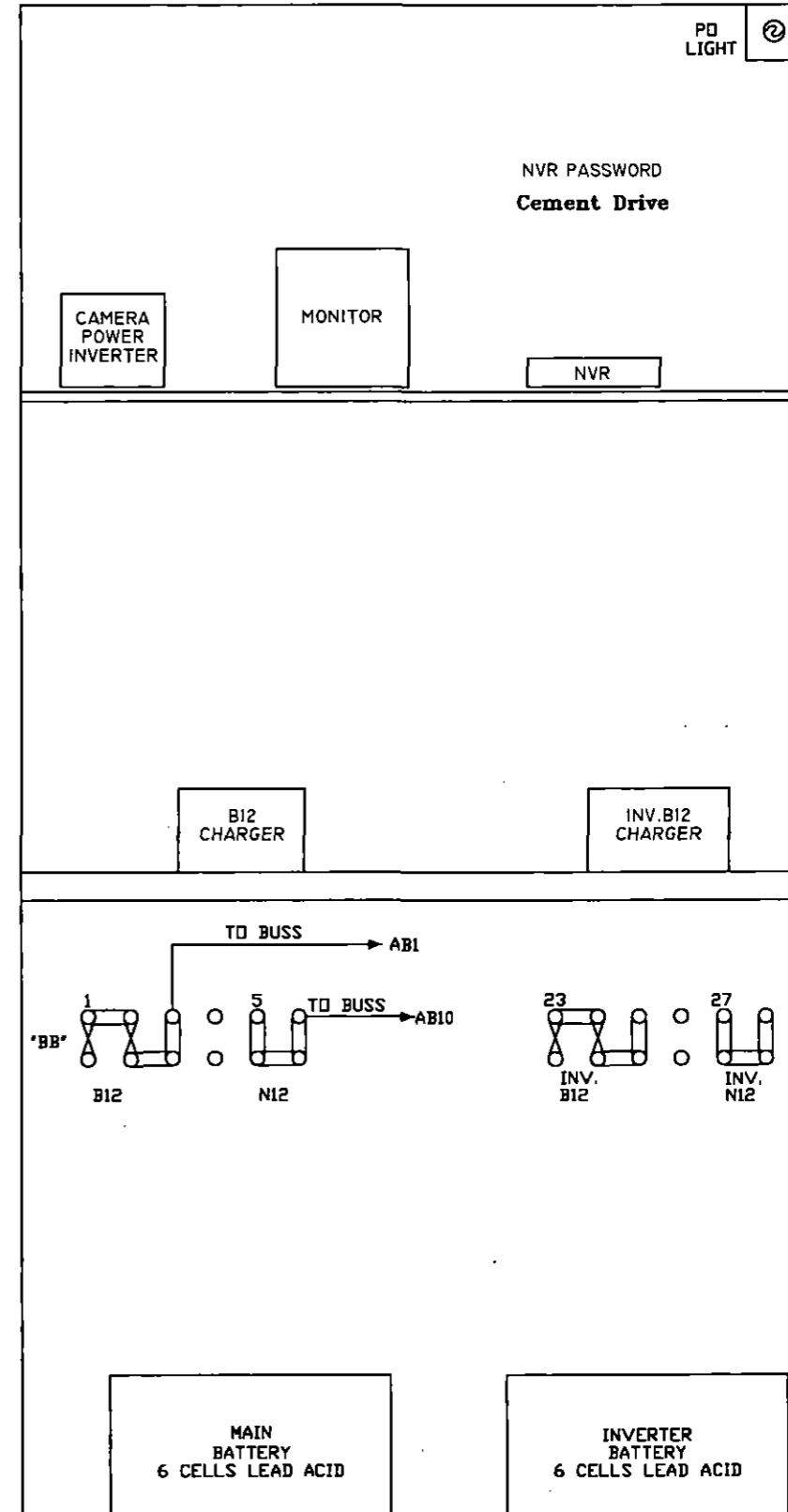
SIDE "C"



SIDE "A"



SIDE "B"



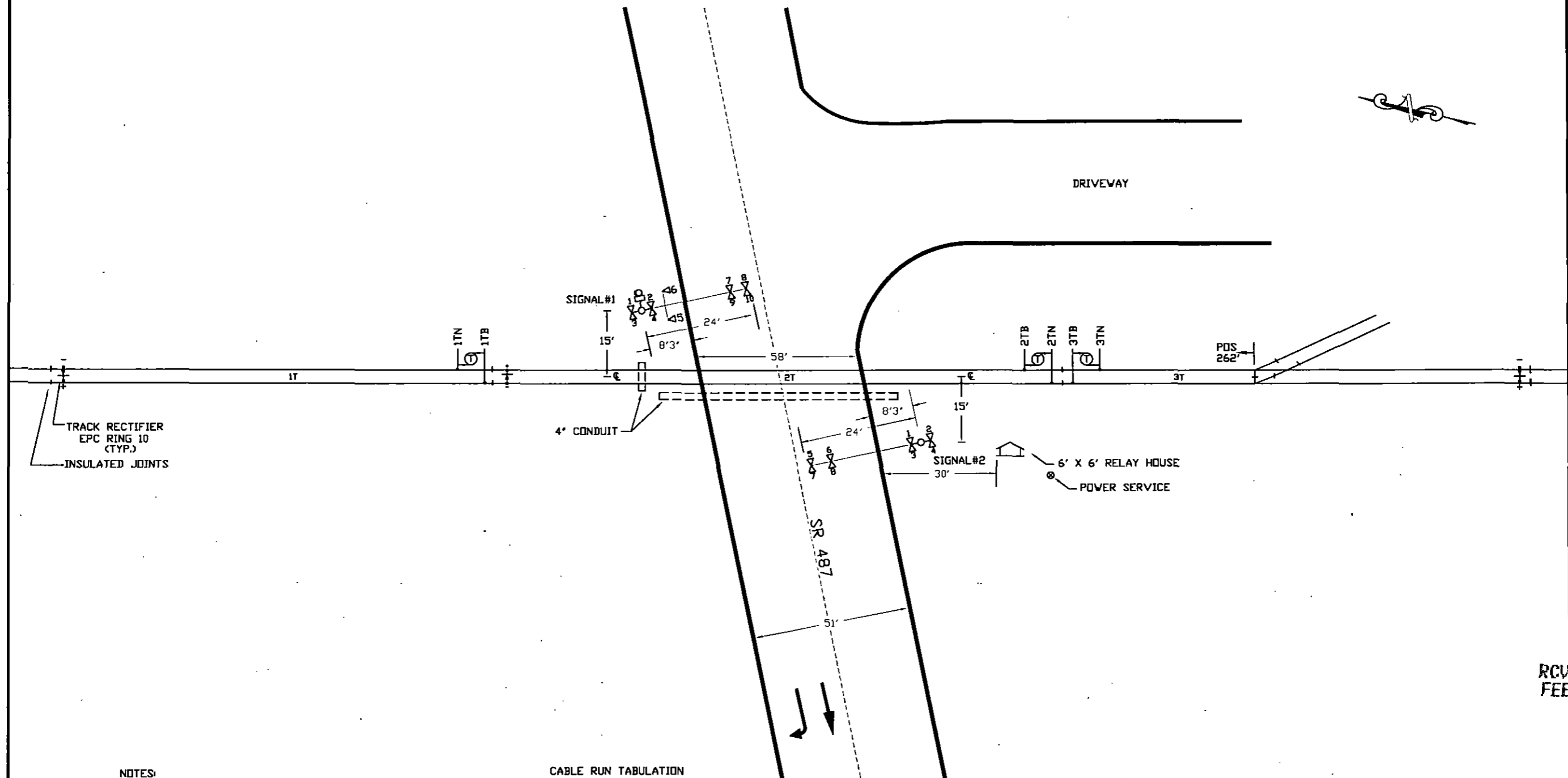
DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED		
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
	DATE: 03/07/2022		REVISED:	
SHAMROCK ROAD - DOT # 534 828D - M.P. 12.18 PAXINOS, NORTHUMBERLAND COUNTY, PA			DRAWING NUMBER	
RELAY HOUSE LAYOUT			12.18	

NORTH

SOUTH

SR 487
START 440'
30 SECS. @ 7 MPH

SR 487
START 440'
30 SECS. @ 7 MPH



RCVD PLC SEC BUR
FEB 23 2023 AM 10:54

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. FLASHLIGHT SIGNALS & GATE LIGHTS TO BE LIGHT EMITTING DIODE ASSEMBLIES, (LED).
4. \textcircled{T} DENOTES TWIST PAIR.

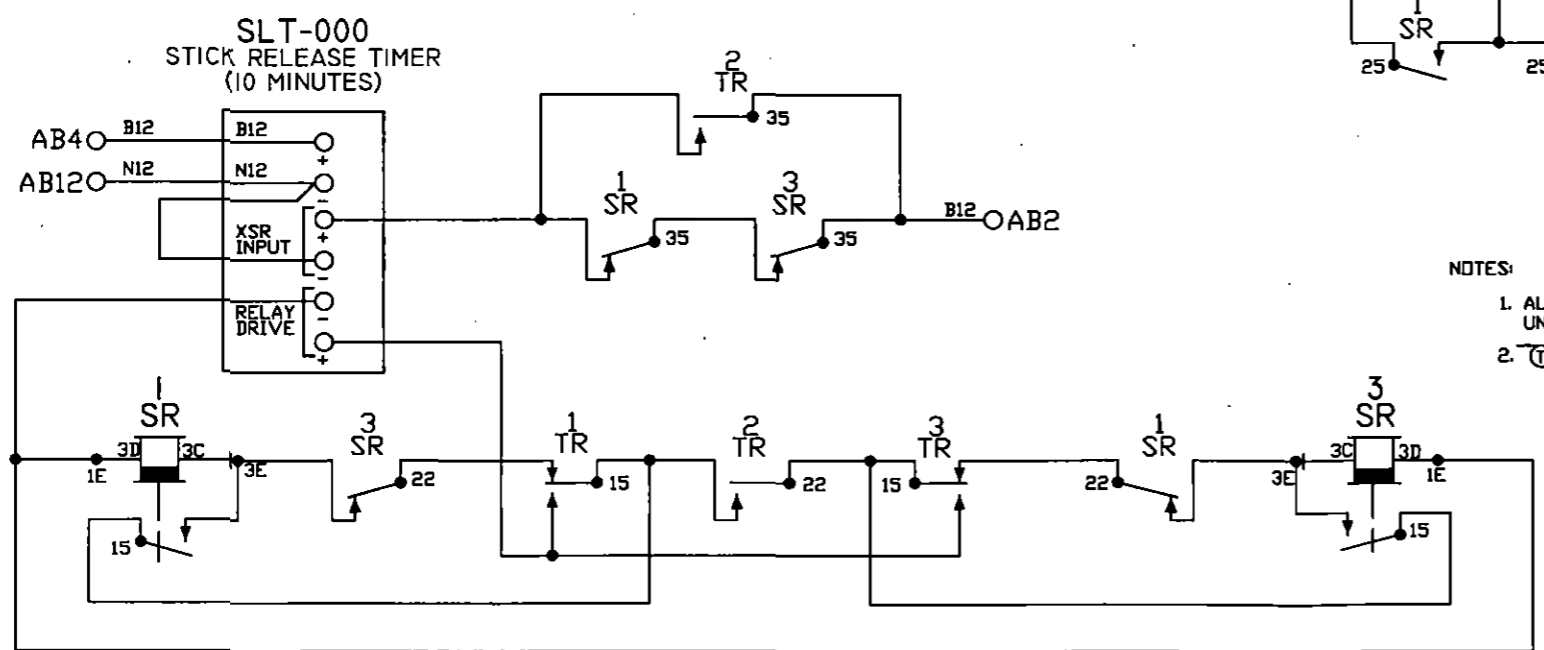
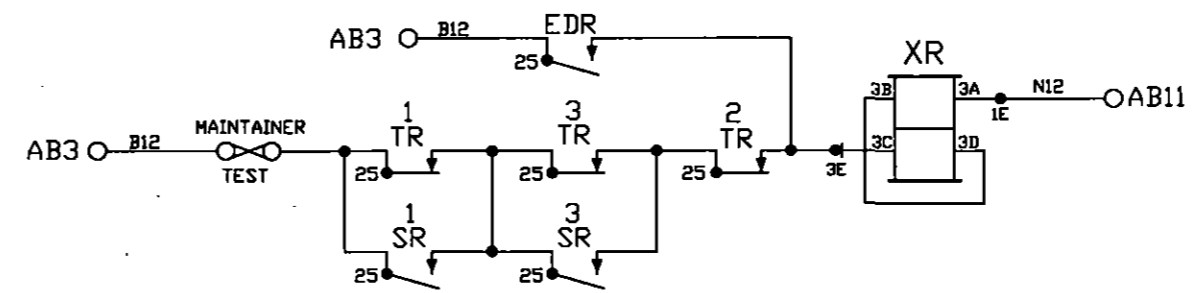
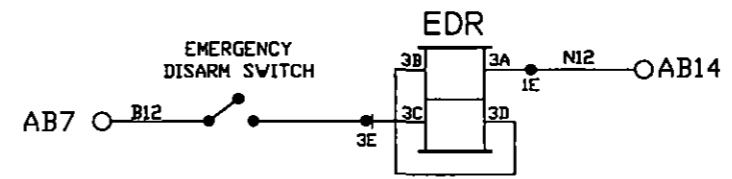
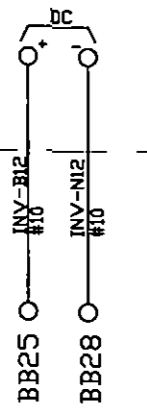
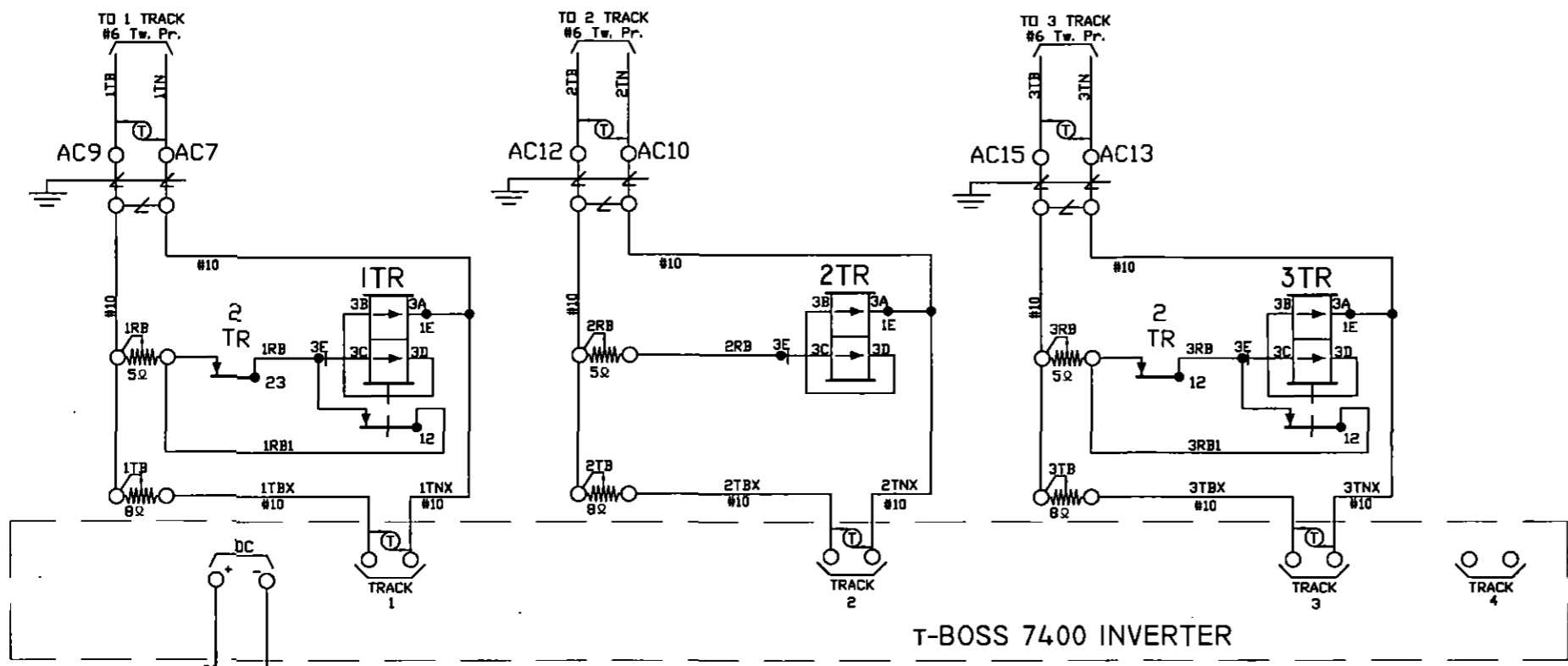
CABLE RUN TABULATION

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

DIAMONDBACK SIGNAL

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

AS WIRED		AS INSTALLED	
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 03/01/2022		REVISED:	
SR 487 - DOT # 534 829K - M.P. 13.20 PAXINOS, NORTHUMBERLAND COUNTY, PA			
TRACK & CABLE PLAN			DRAWING NUMBER 13.20

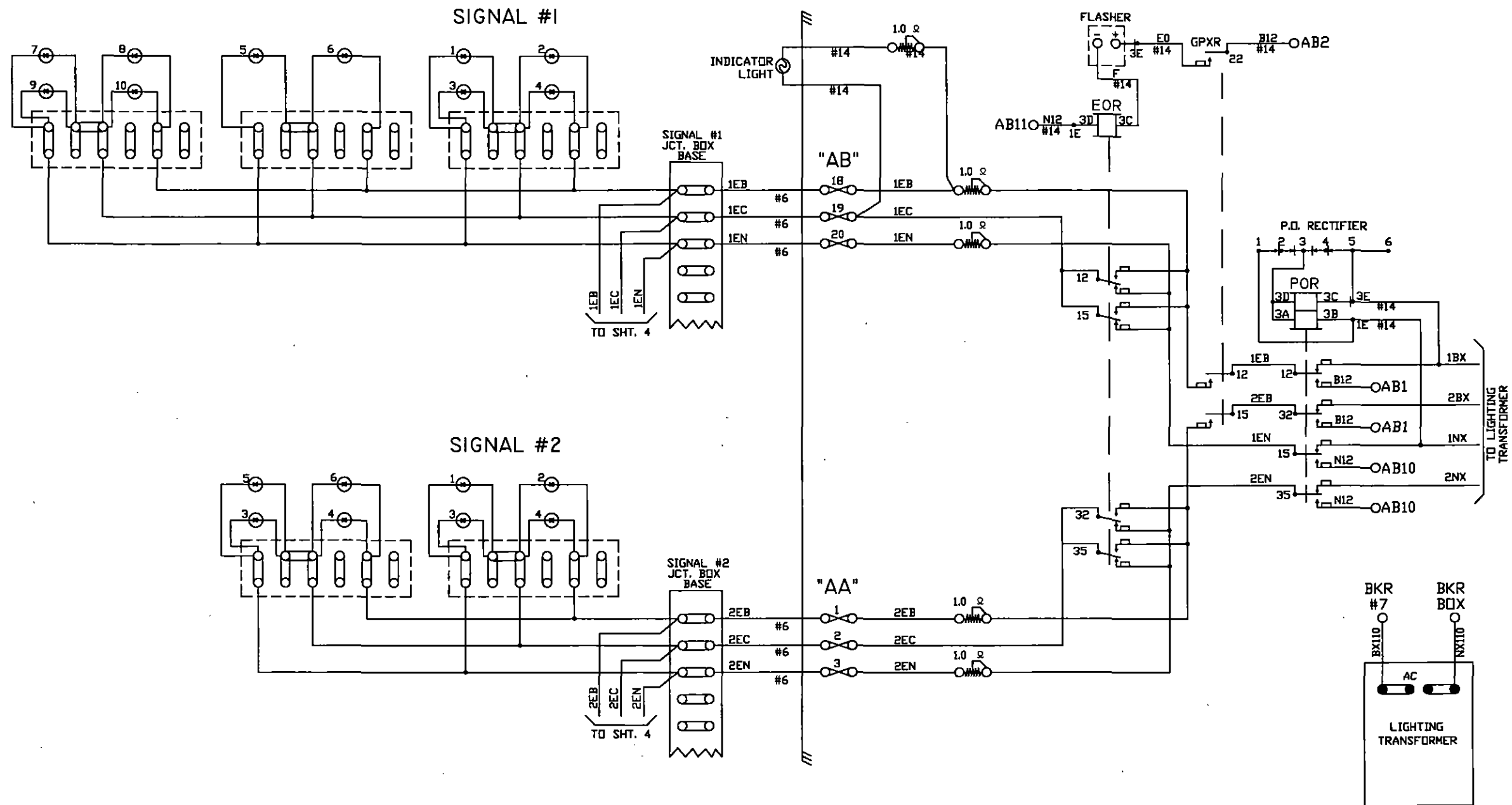


NOTES:

1. ALL WIRE THIS SHEET IS #14 AWG FLEX UNLESS OTHERWISE NOTED.

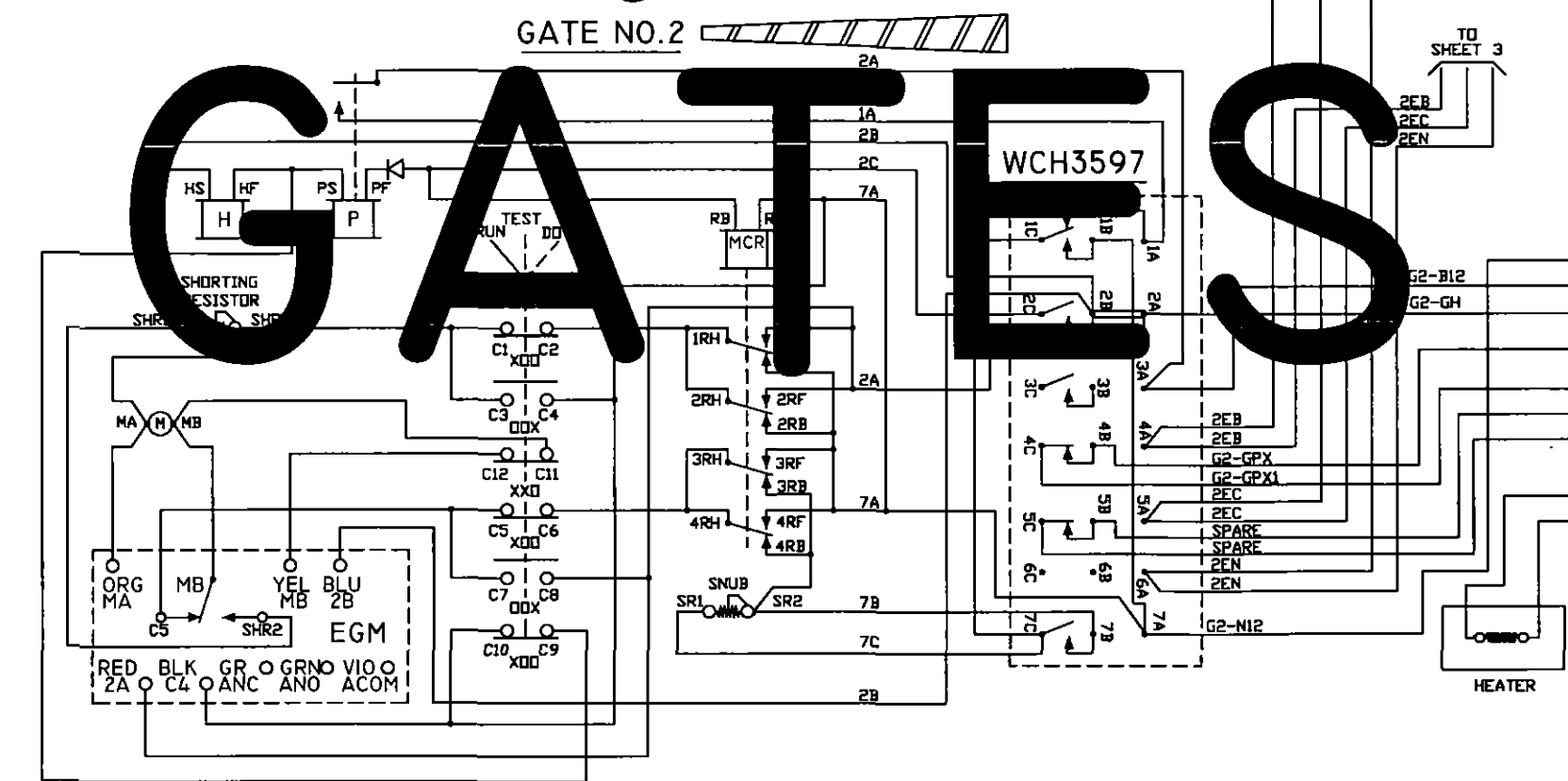
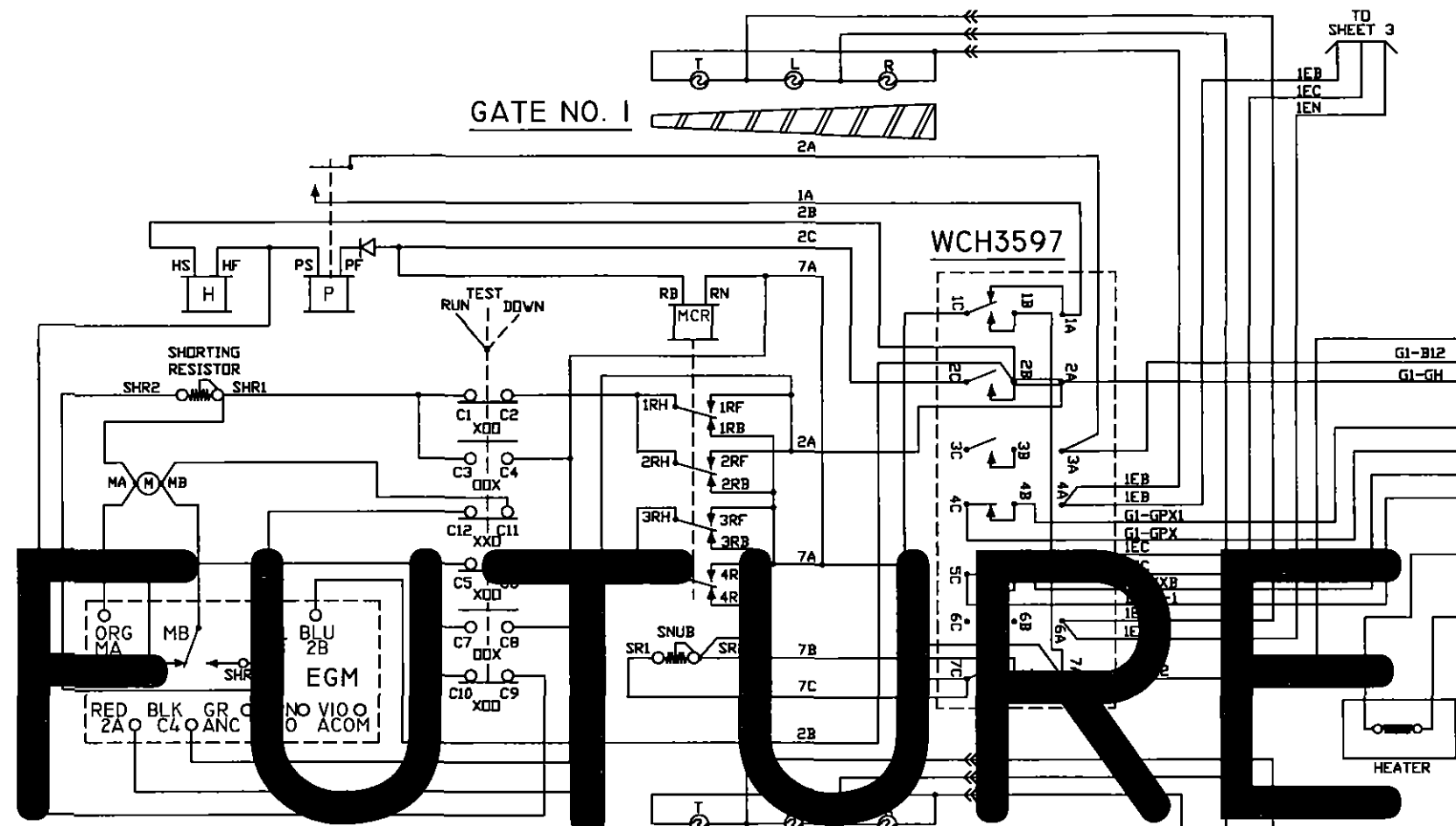
2. (TW) DENOTES TWISTED PAIR.

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES	
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
DATE: 03/01/2022		REVISED:
SR 487 - DOT # 534 829K - M.P. 13.20 PAXINOS, NORTHUMBERLAND COUNTY, PA		
CIRCUIT PLAN 'A'		DRAWING NUMBER 13.20

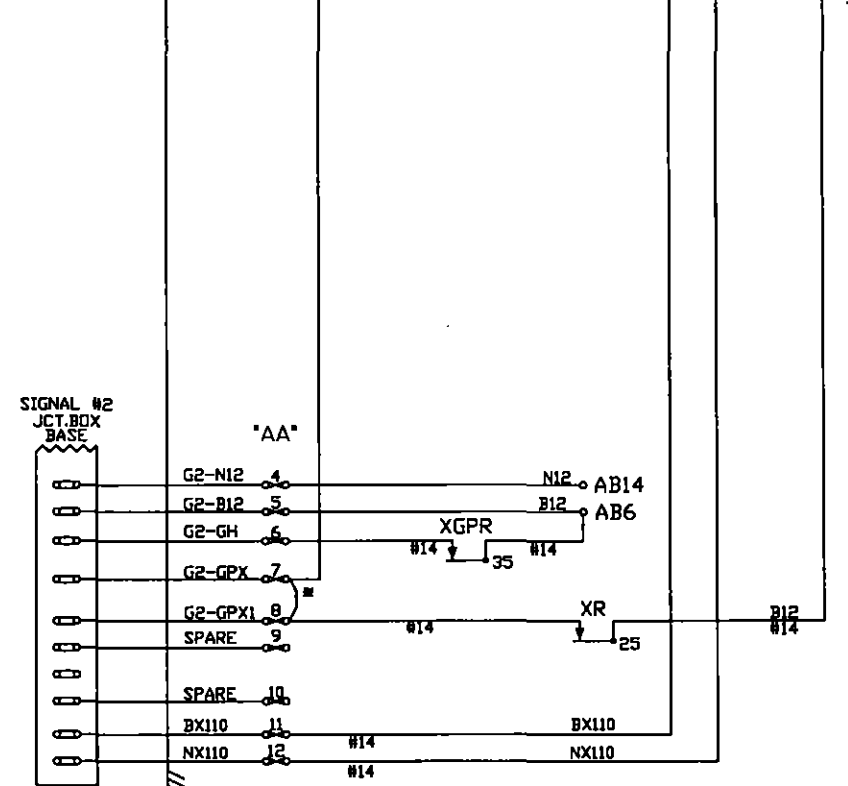
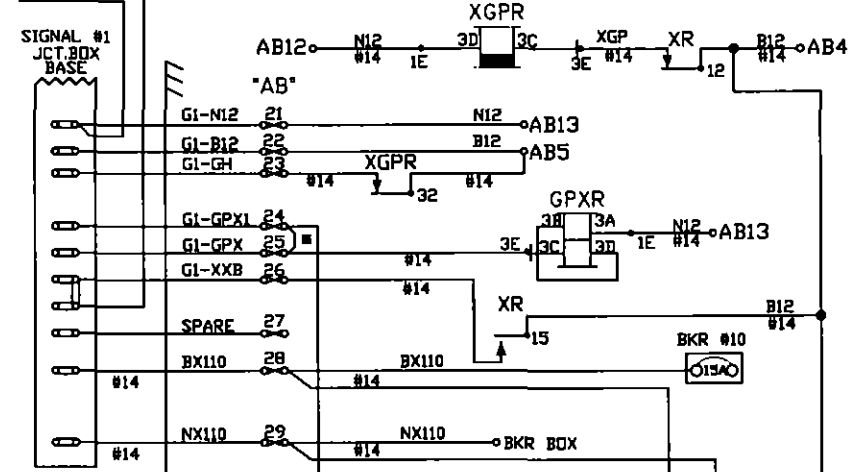


NOTE:
ALL WIRE THIS SHEET IS #10 AWG. FLEX
UNLESS OTHERWISE NOTED.

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES	
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
DATE: 03/01/2022		REVISED:
SR 487 - DOT # 534 829K - M.P. 13.20 PAXINOS, NORTHUMBERLAND COUNTY, PA		
CIRCUIT PLAN 'B'		DRAWING NUMBER 13.20

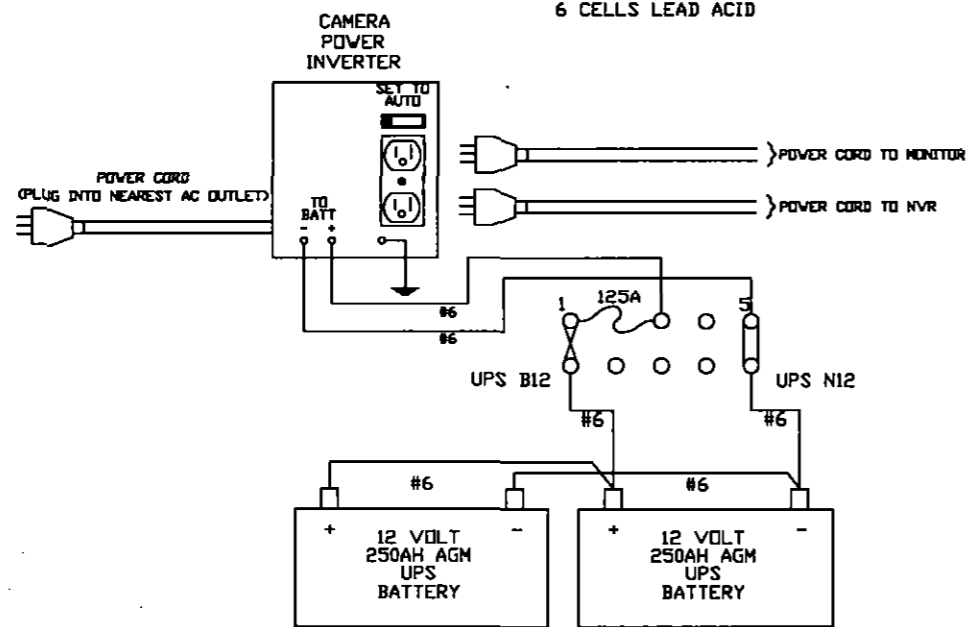
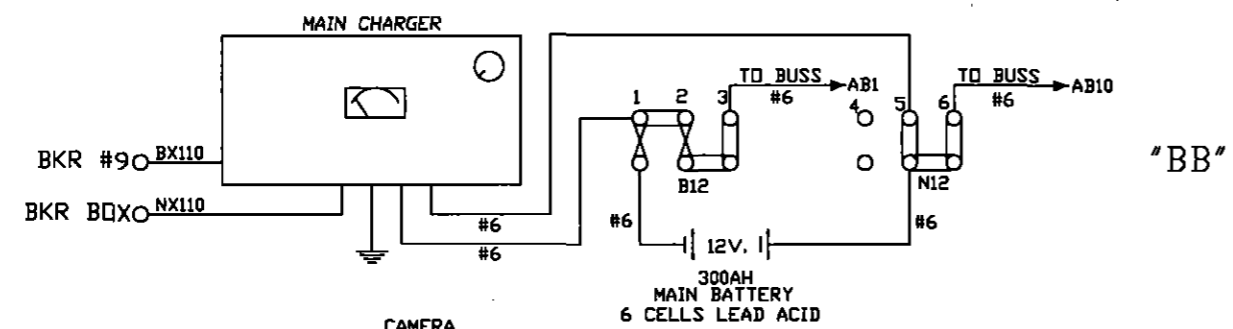
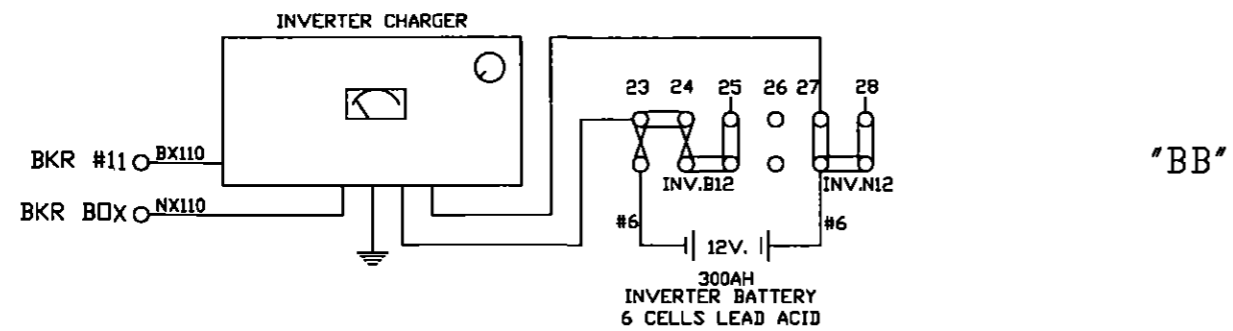


CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.



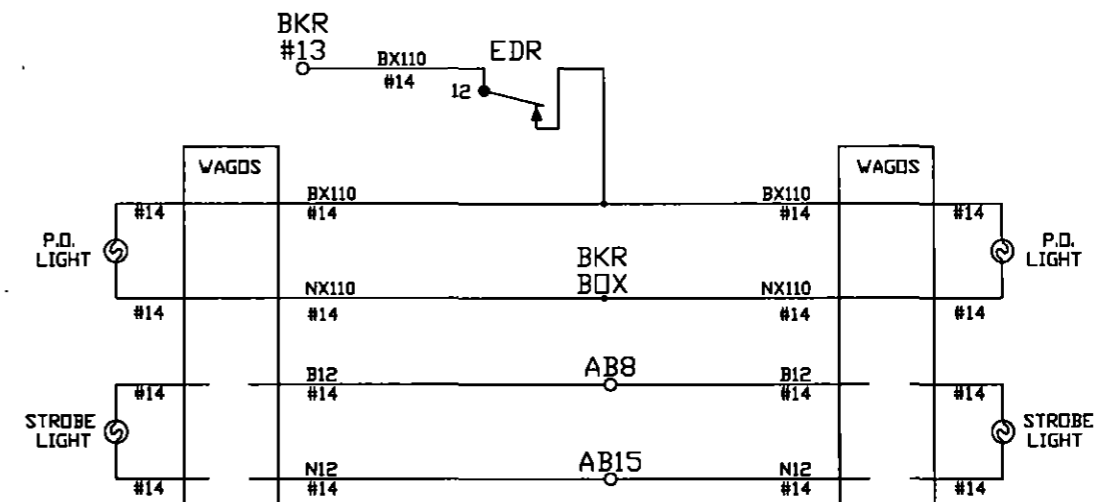
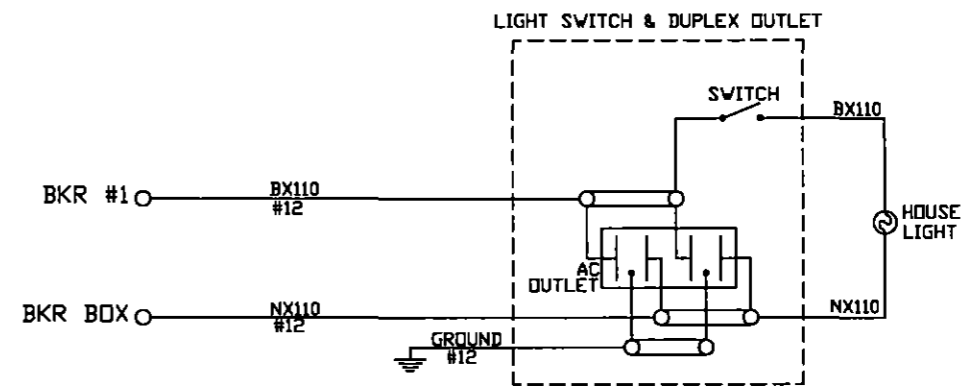
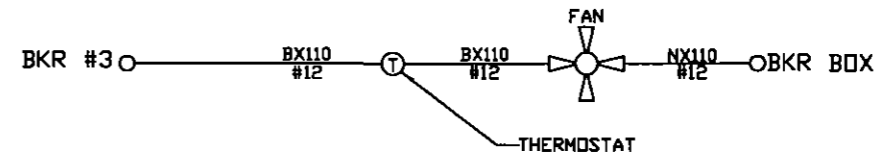
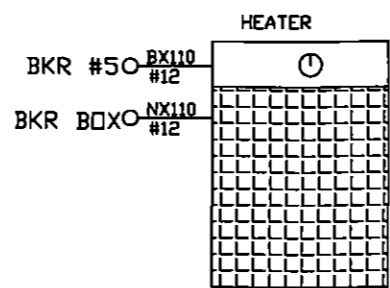
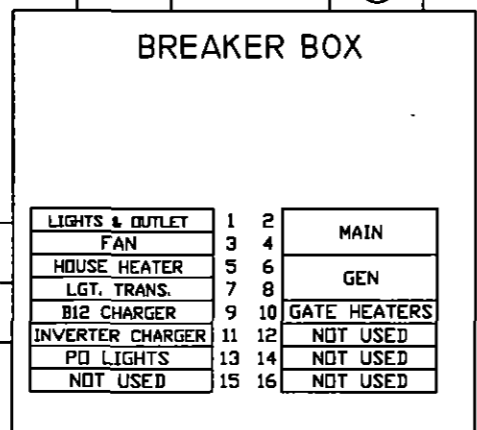
NOTES:
ALL WIRE ON THIS SHEET IS #10AWG UNLESS OTHERWISE NOTED.
* = TEMPORARY "GATE READY" JUMPER.

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 03/01/2022		REVISED:
SR 487 - DOT # 534 829K - M.P. 13.20 PAXINOS, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN "C"		DRAWING NUMBER 13.20	



"CB"

ERICO EPD 120/240 VENT FAN THERMOSTAT



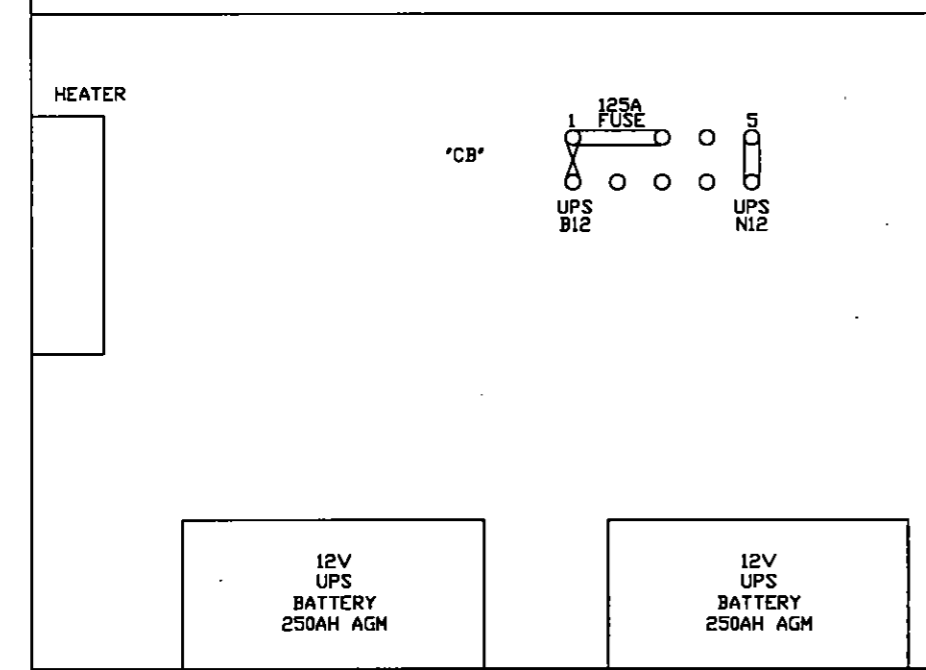
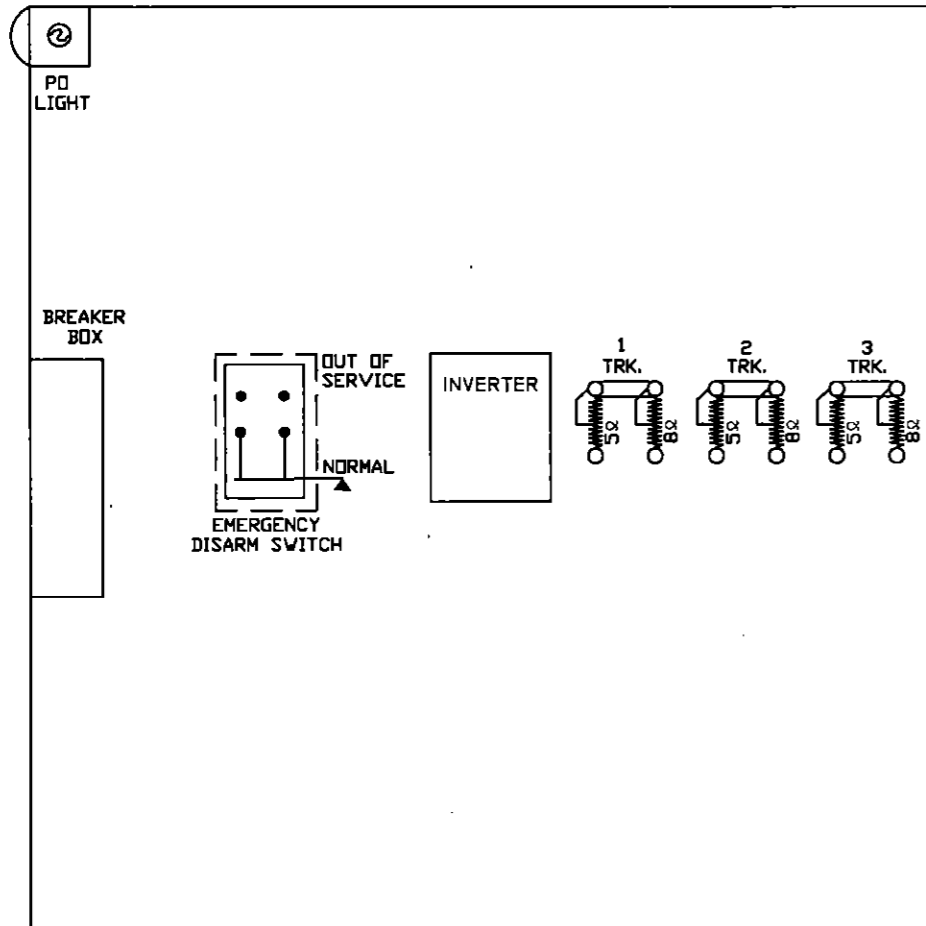
NOTE:
ALL WIRE THIS SHEET IS #10 AWG FLEX UNLESS OTHERWISE NOTED.

AS WIRED		AS INSTALLED	
DIAMONDBACK SIGNAL			
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 03/01/2022		REVISED:	
SR 487 - DOT # 534 829K - M.P. 13.20 PAXINOS, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN "D"			DRAWING NUMBER 13.20

SIDE "C"

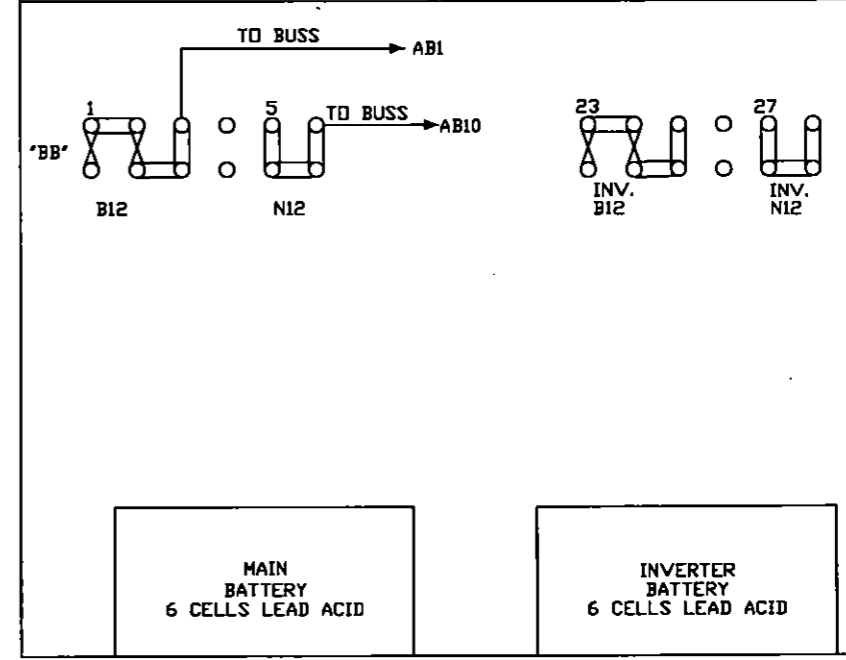
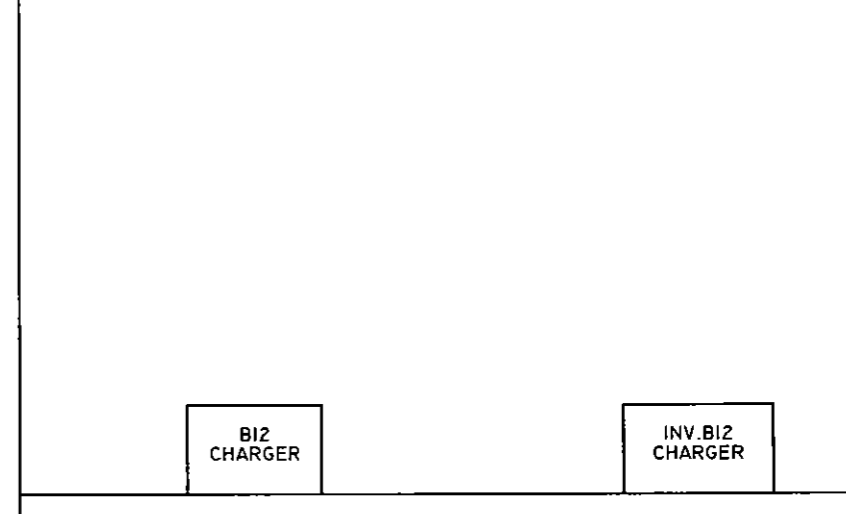
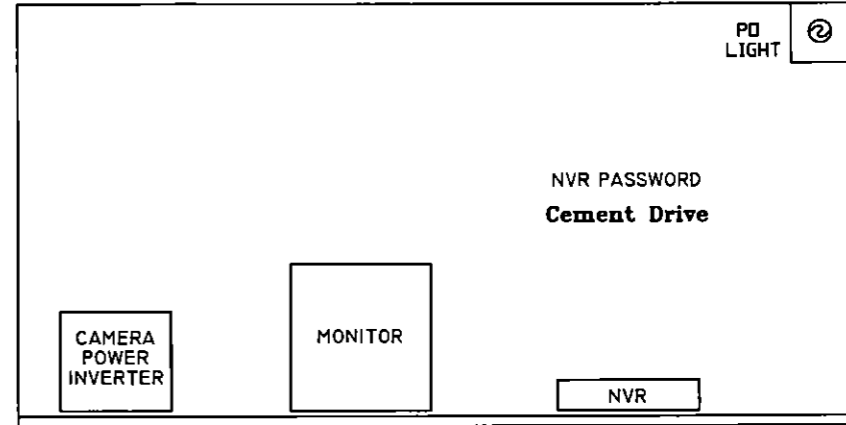
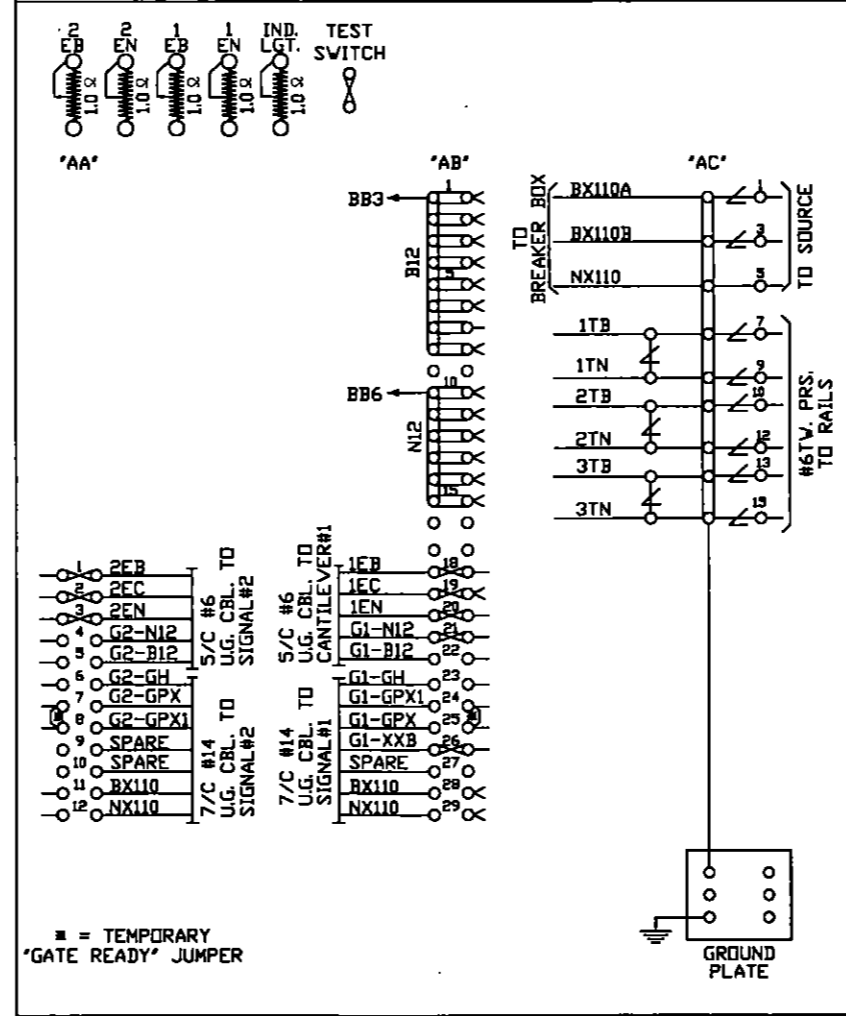
SIDE "A"

SIDE "B"

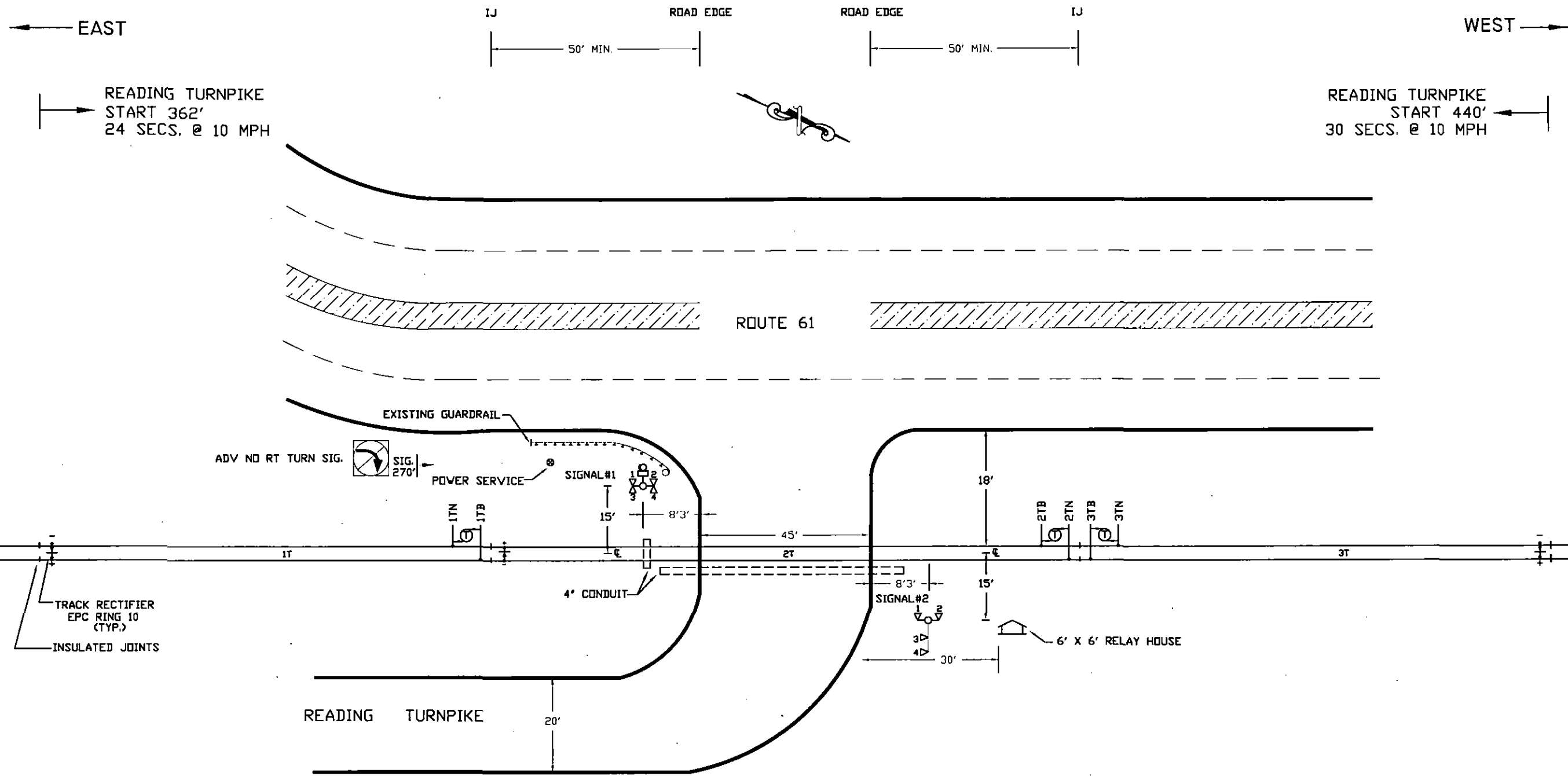


LIGHT TRANS.	POR	EOR	GPXR	XR	XGPR	EDR
	12 FB 15 FB 22 25 32 FB 35 FB	12 FB 15 FB 32 FB 35 FB	12 B 15 B 22 B 25 32 35	12 F 15 22 B 23 F 25 F 32 35	12 F 15 FB 22 B 23 25 F 32 35	12 15 32 F 35 F
A62-406	A62-671	A62-310	A62-262	A62-360	A62-262	
400800	400700-X	400020	400000	400200	400000	

SR	TR	2 TR	3 TR	3 SR	SLT-000 STICK RELEASE TIMER (10 MIN)
A62-357	A62-120	A62-120	A62-120	A62-357	
400211	400510	400510	400510	400211	



DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES	
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
DATE: 03/01/2022		REVISED:
SR 487 - DOT # 534 829K - M.P. 13.20 PAXINOS, NORTHUMBERLAND COUNTY, PA		
RELAY HOUSE LAYOUT		DRAWING NUMBER 13.20



- 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. FLASHLIGHT SIGNALS & GATE LIGHTS TO BE LIGHT EMITTING DIODE ASSEMBLIES, (LED).
 4. \textcircled{T} DENOTES TWIST PAIR.

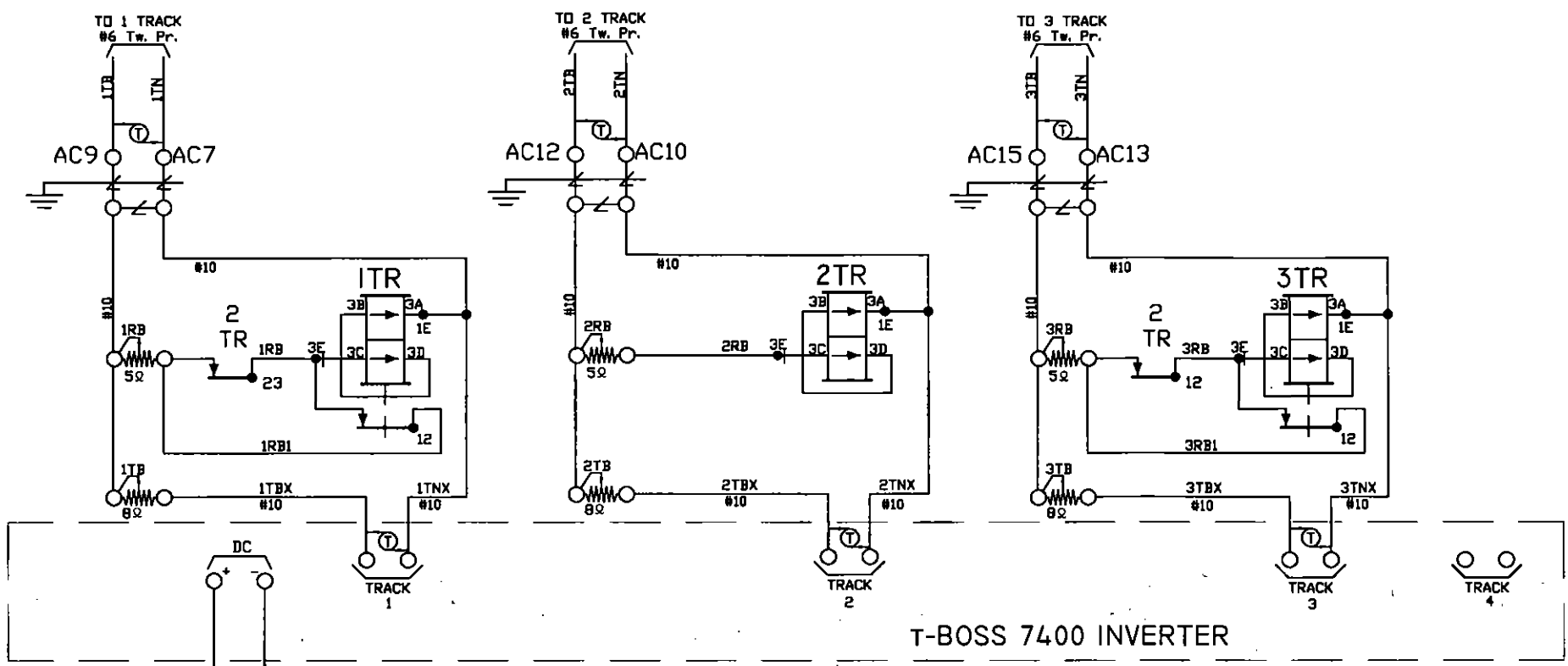
CABLE RUN TABULATION

HOUSE TO SIGNAL #1	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO SIGNAL #2	- 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 TWISTED PAIR
HOUSE TO 2TN & 2TB	- 2/C #6 TWISTED PAIR
HOUSE TO 3TN & 3TB	- 2/C #6 TWISTED PAIR

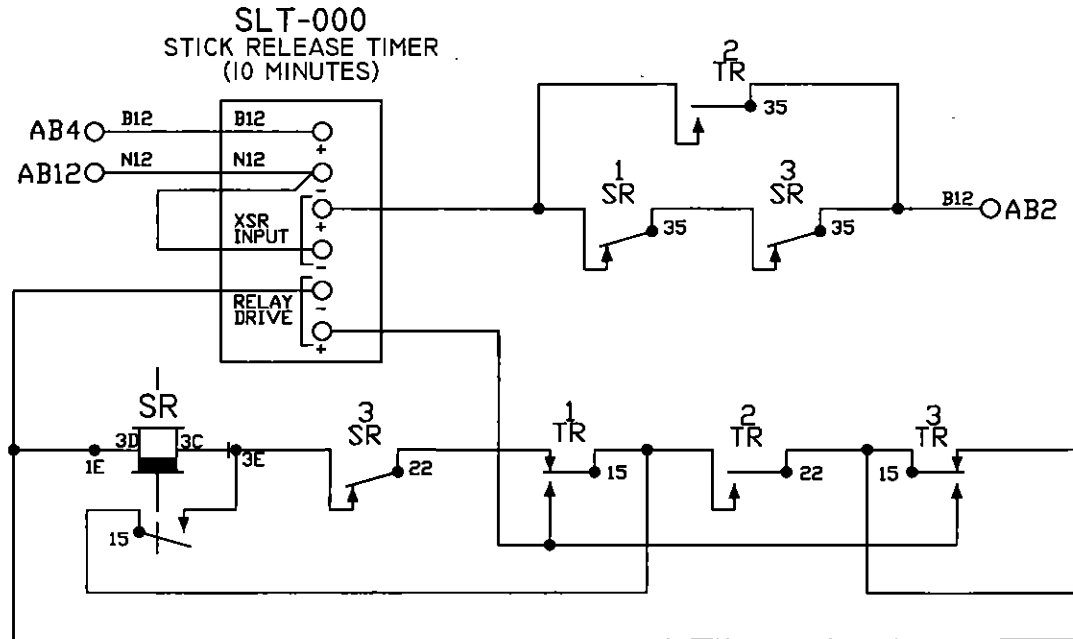
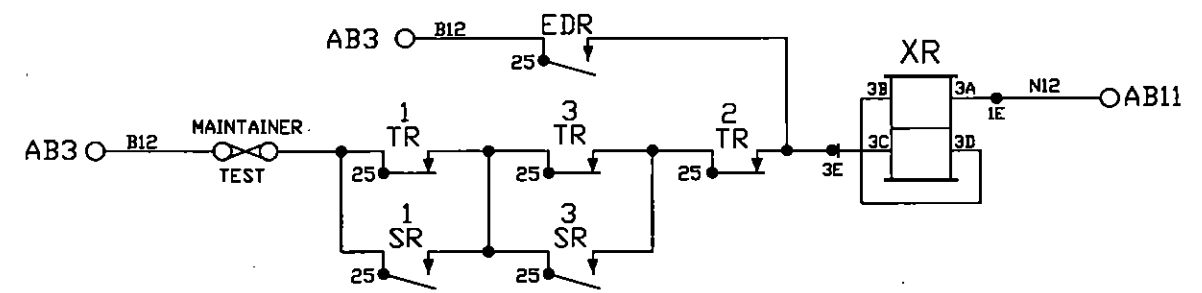
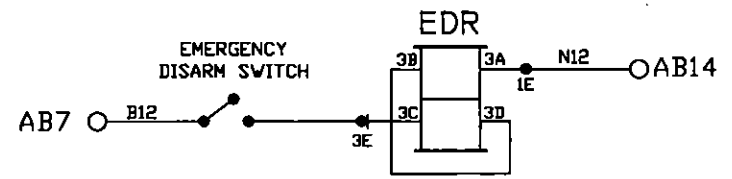
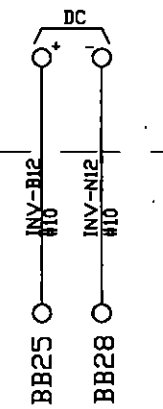
DIAMONDBACK SIGNAL
 (410) 795-9601
 5965 EXCHANGE DRIVE
 SUITE "D"
 SYKESVILLE, MD
 21784

AS WIRED		AS INSTALLED	
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 03/02/2022		REVISED:	
READING TURNPIKE - DOT # 534 831L - M.P. 13.59 SUNBURY, NORTHUMBERLAND COUNTY, PA			
TRACK & CABLE PLAN			DRAWING NUMBER 13.59

RCVD PUC SEC BUR
 FEB 23 2023 AM 10:54



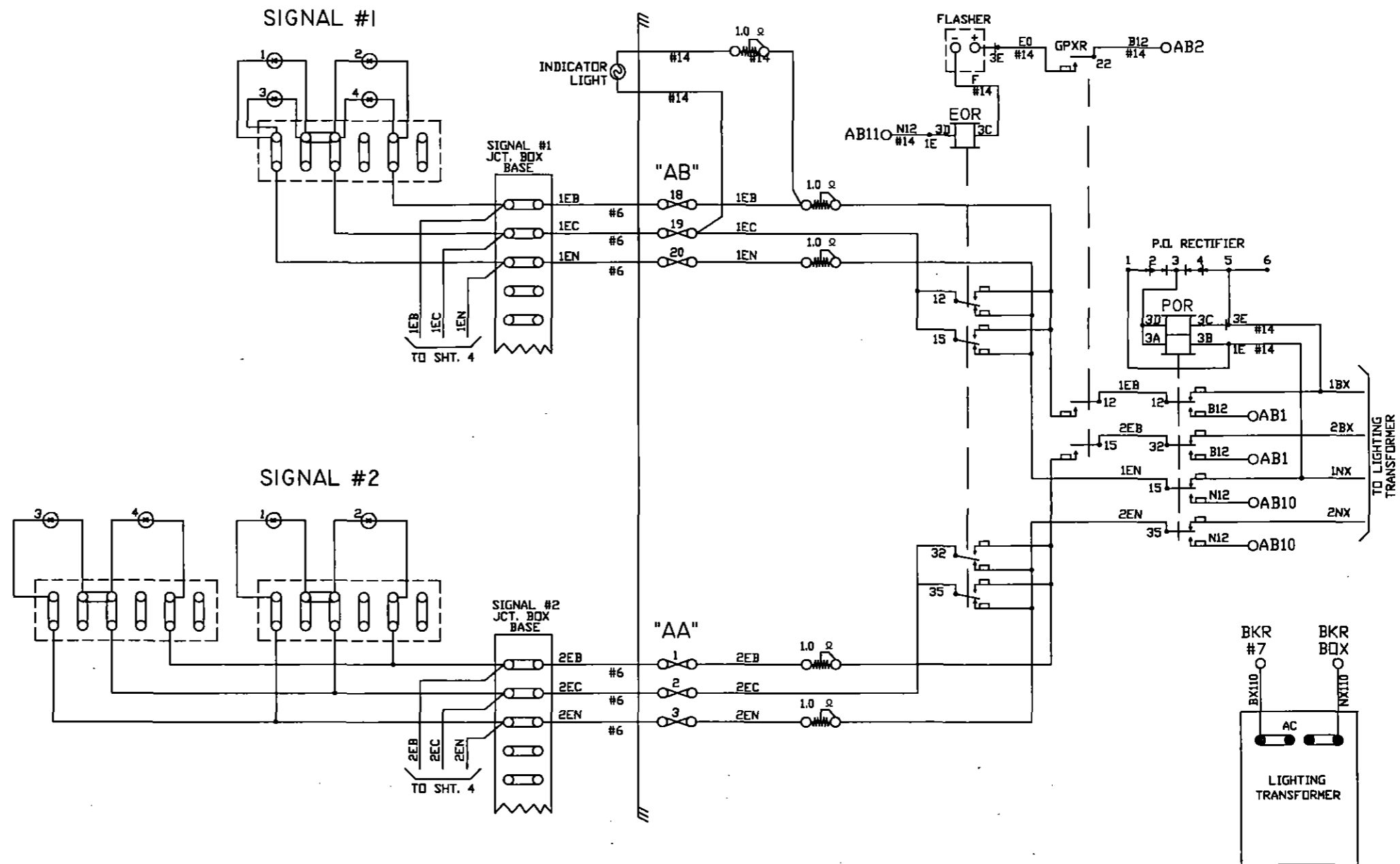
T-BOSS 7400 INVERTER



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

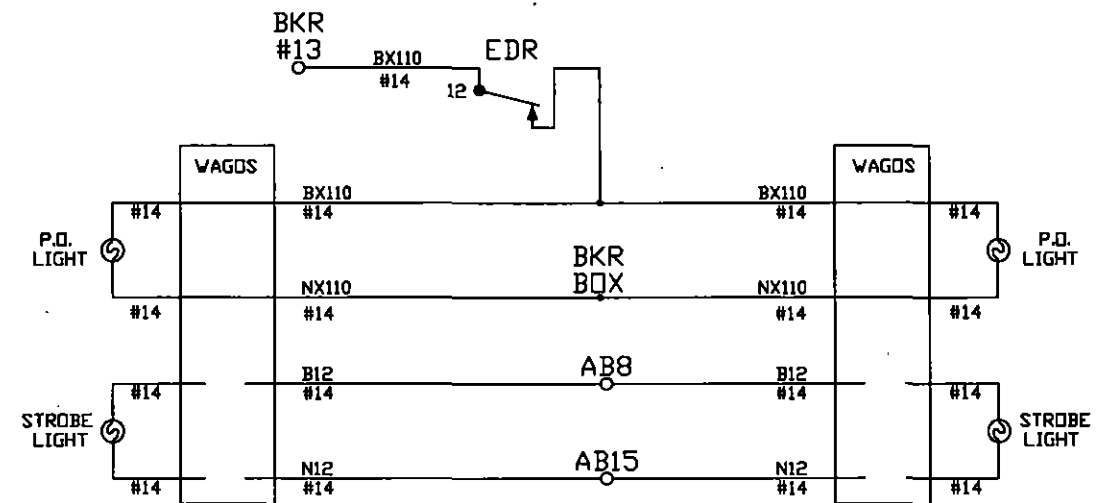
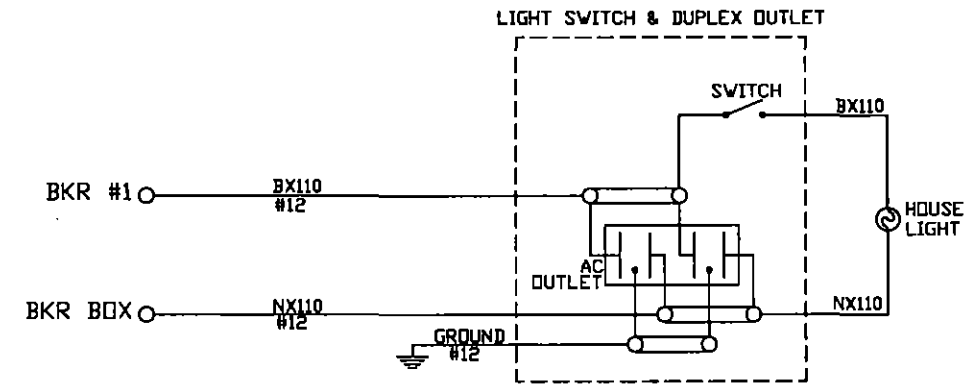
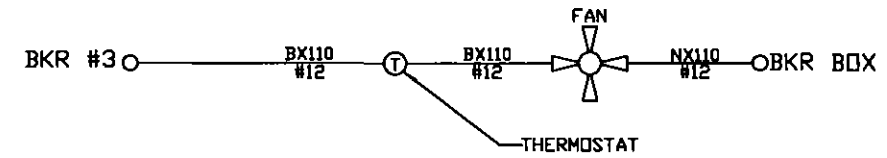
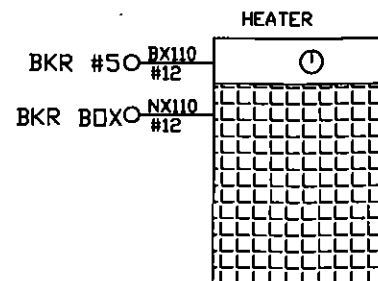
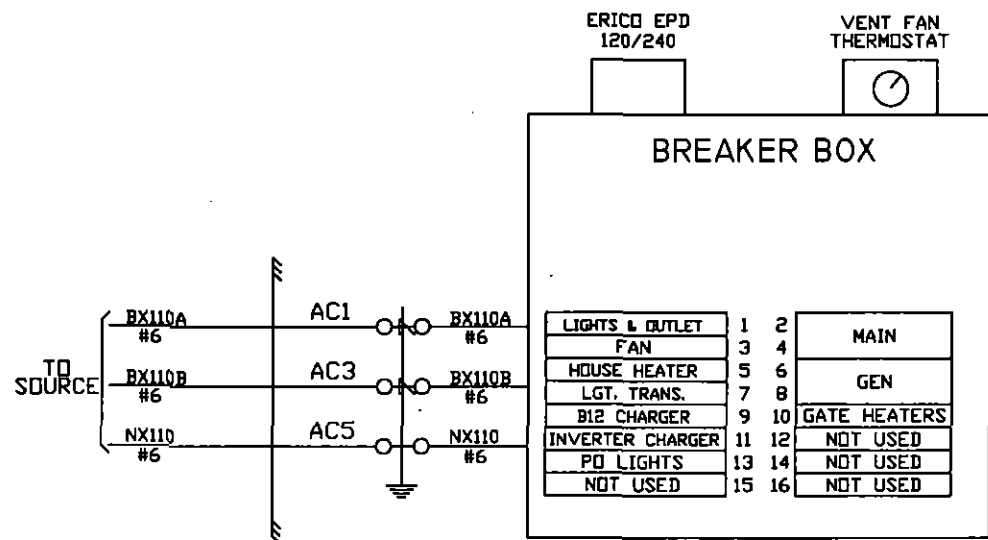
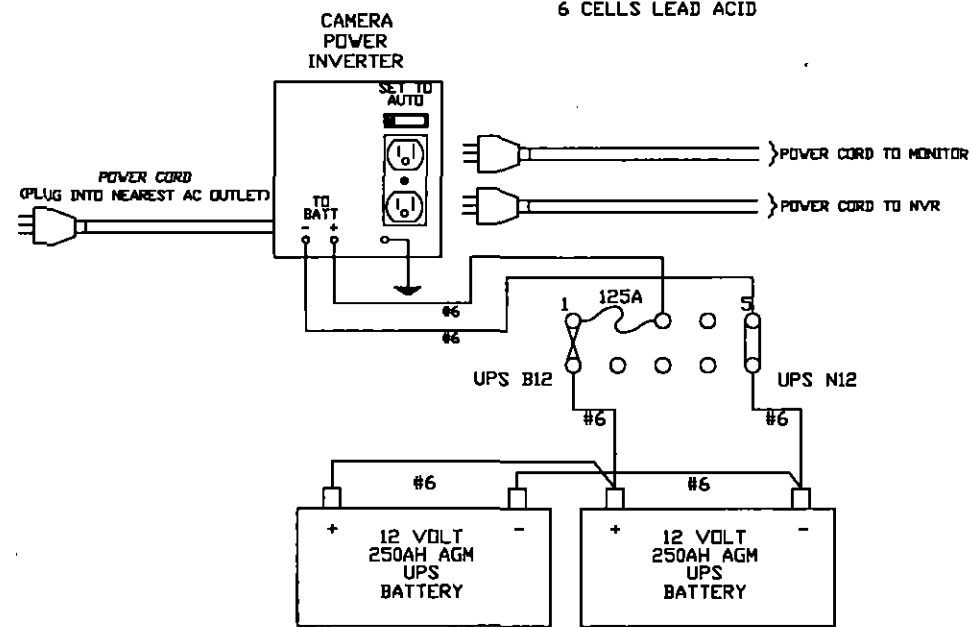
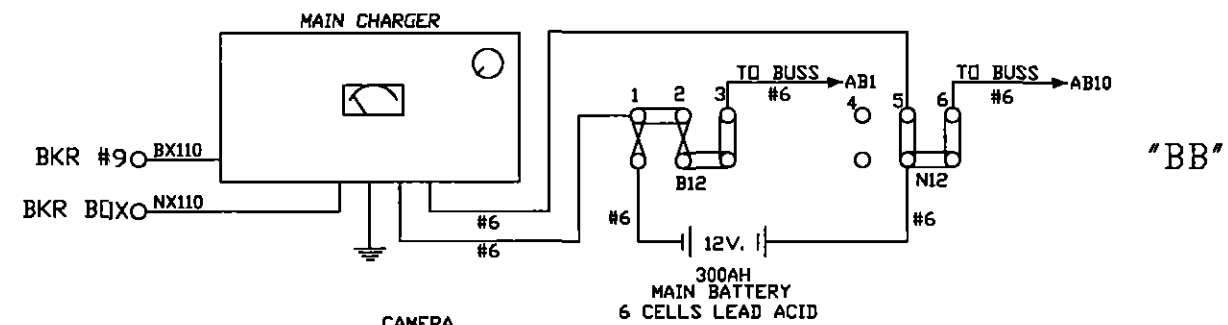
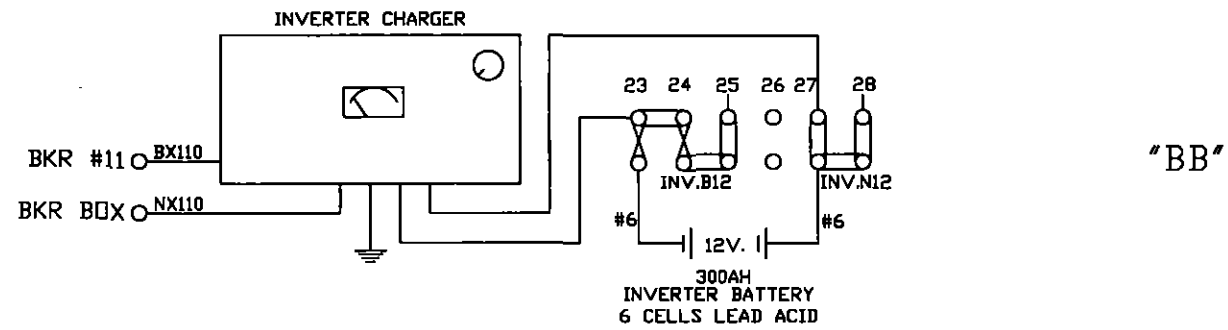
DIAMONDBACK SIGNAL
 (410) 795-9601
 5965 EXCHANGE DRIVE
 SUITE "D"
 SYKESVILLE, MD
 21784

AS WIRED		AS INSTALLED	
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 03/02/2022		REVISED:	
READING TURNPIKE - DOT # 534 831L - M.P. 13.59 SUNBURY, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN 'A'			DRAWING NUMBER 13.59



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

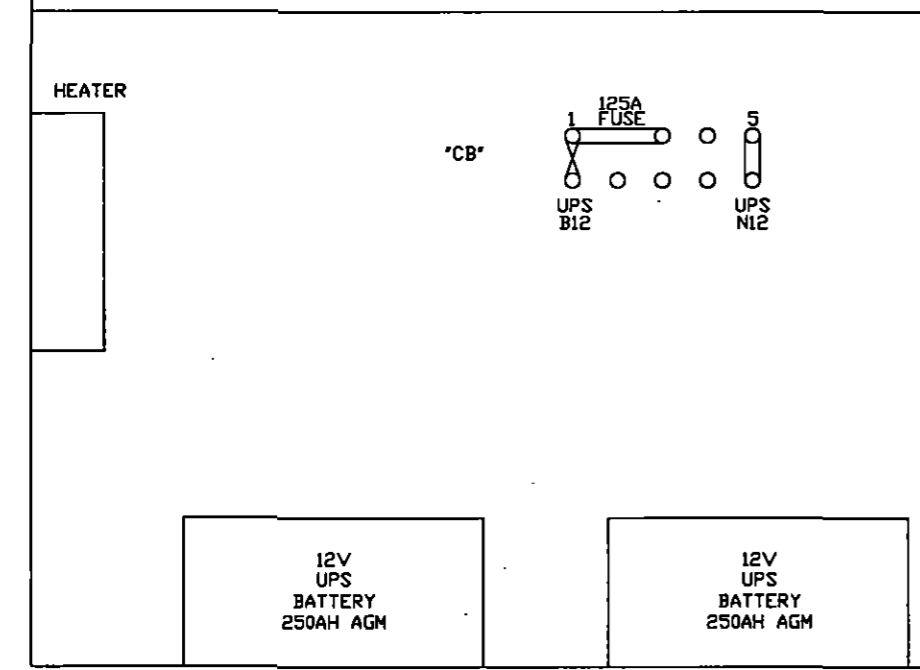
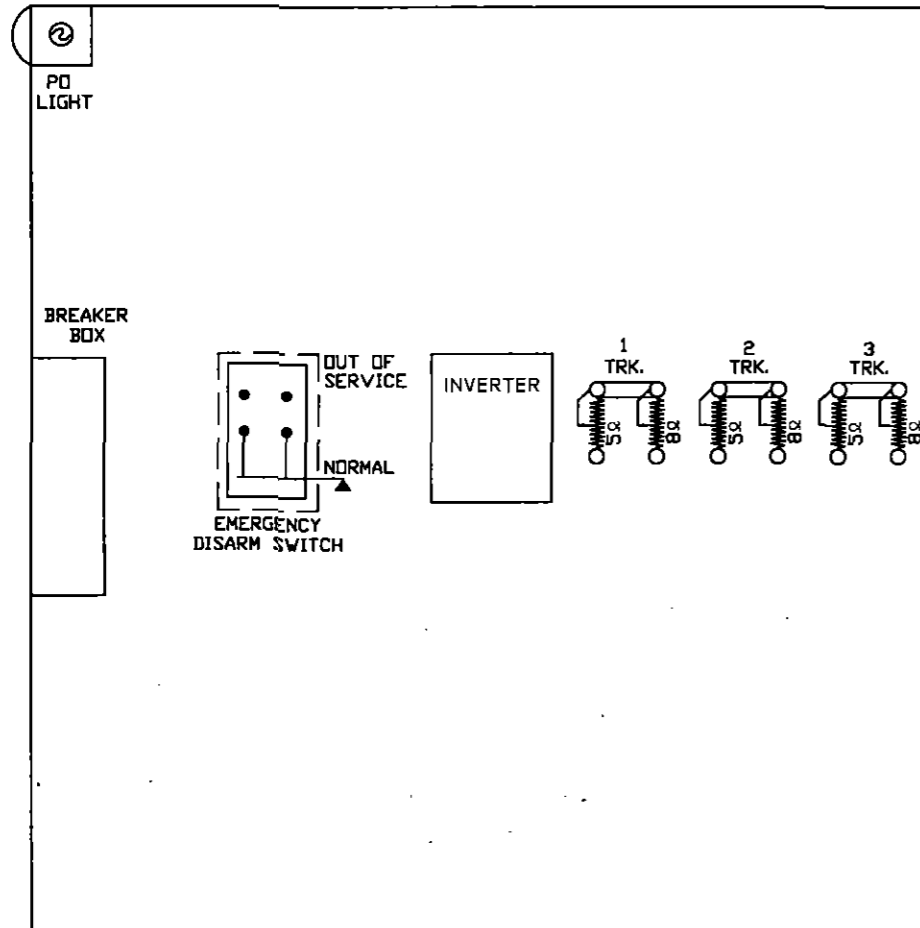
DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 03/02/2022		REVISED:
READING TURNPIKE - DOT # 534 831L - M.P. 13.59 SUNBURY, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN 'B'		DRAWING NUMBER 13.59	



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

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 03/02/2022	REVISED:	
READING TURNPIKE - DOT # 534 831L - M.P. 13.59 SUNBURY, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN "D"		DRAWING NUMBER 13.59	

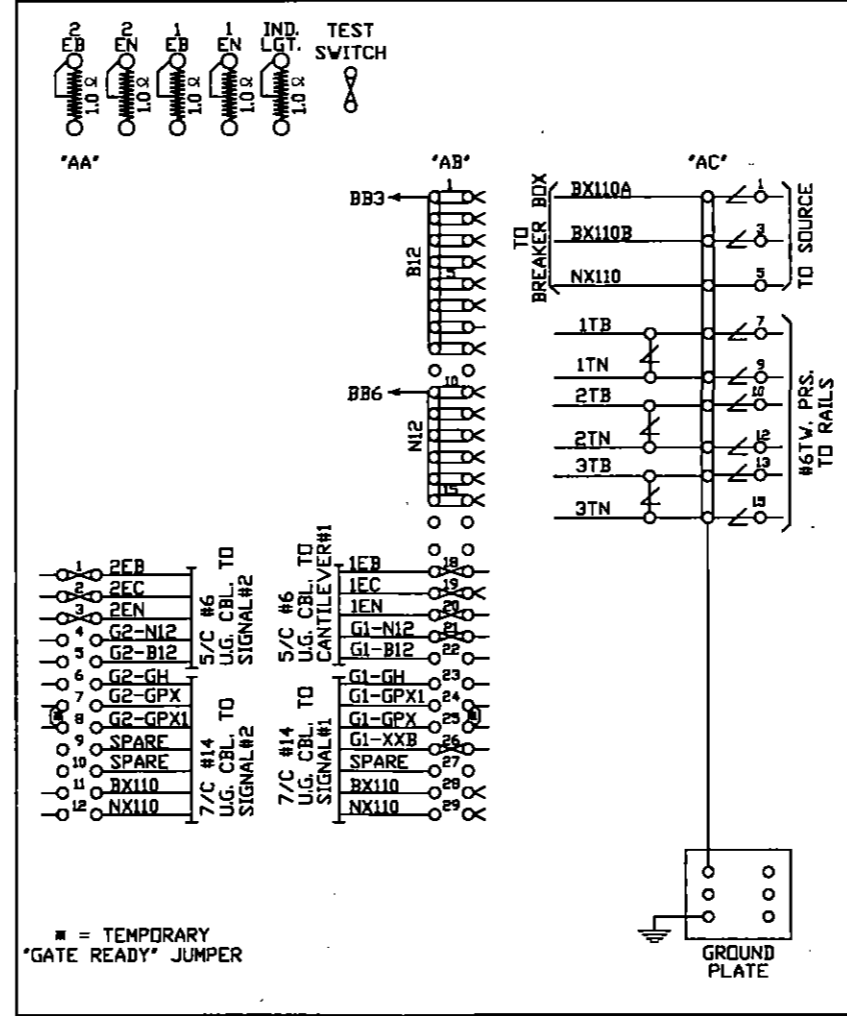
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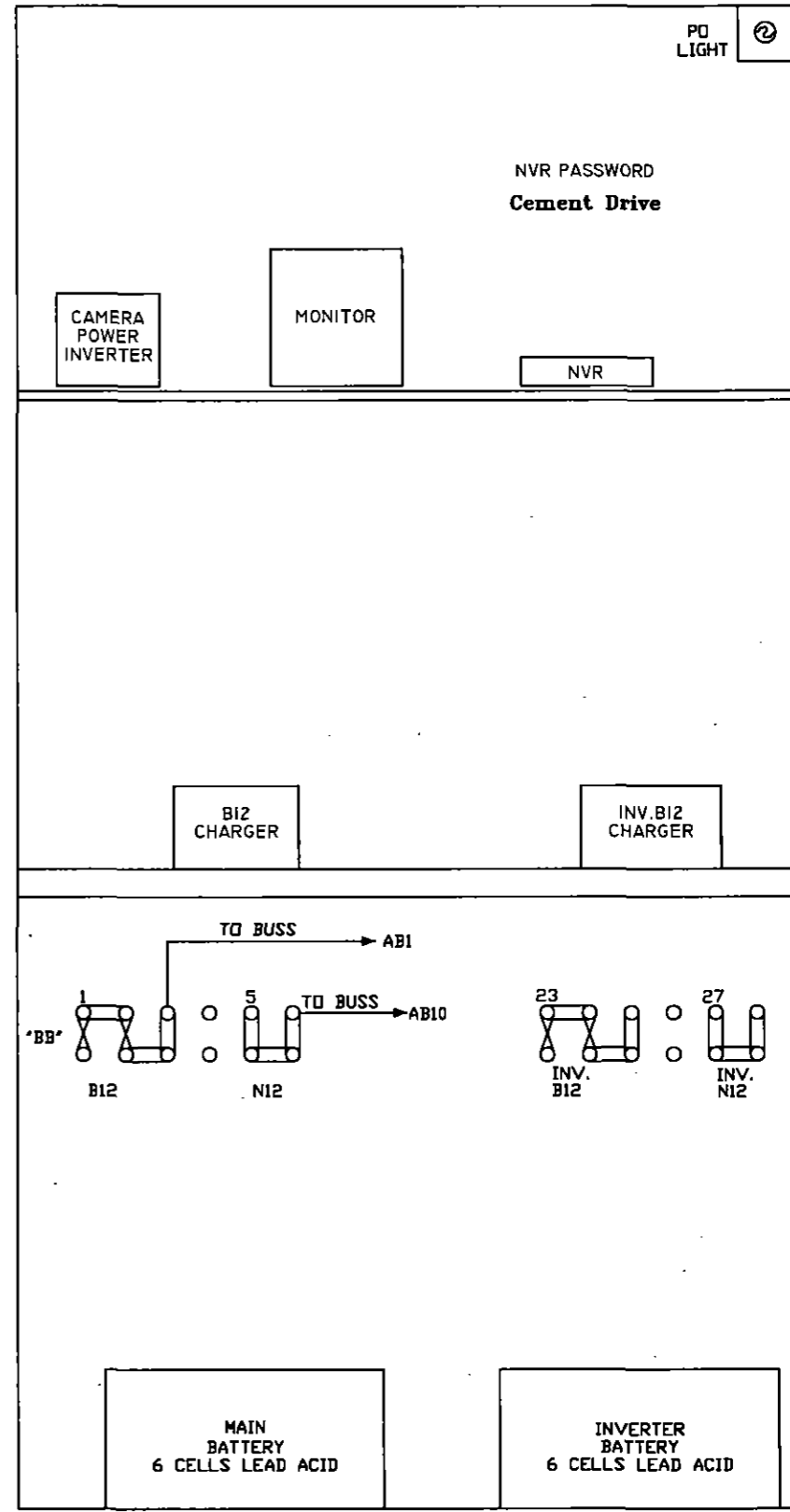
SIDE "A"

LIGHT TRANS.	POR	EOR	GPXR	XR	XGPR	EDR
	12 FB	12 FB	12 B	12 F	12	12 B
	15 FB	15 FB	15 B	15	15	15
	22	32 FB	22 B	22	32 F	22
	25	35 FB	23	25 F	35 F	25 F
	32 FB		25	32		32 B
	35 FB		32	35 B		35
			35			
	A62-406	A62-671	A62-310	A62-262	A62-360	A62-262
	400800	400700-X	400020	400000	400200	400000

	SR	TR	2 TR	3 TR	3 SR	SLT-000 STICK RELEASE TIMER (10 MIN)
	12	12 F	12 F	12 F	12	
	15	15 FB	15	15 FB	15	
	22	22	22 B	22	22 B	
	23	23	23 F	23	23	
	25	25 F	25 F	25 F	25 F	
	32	32	32	32	32	
	35	35	35 B	35	35 B	
	A62-357	A62-120	A62-120	A62-120	A62-357	
	400211	400510	400510	400510	400211	



SIDE "B"



AS WIRED AS INSTALLED

DIAMONDBACK SIGNAL

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

SHAMOKIN VALLEY RAILROAD
RAILROAD CROSSING WARNING DEVICES

SCALE: NONE APPROVED BY: DRAWN BY: DBS
DATE: 03/02/2022 REVISED:

READING TURNPIKE - DOT # 534 831L - M.P. 13.59
SUNBURY, NORTHUMBERLAND COUNTY, PA

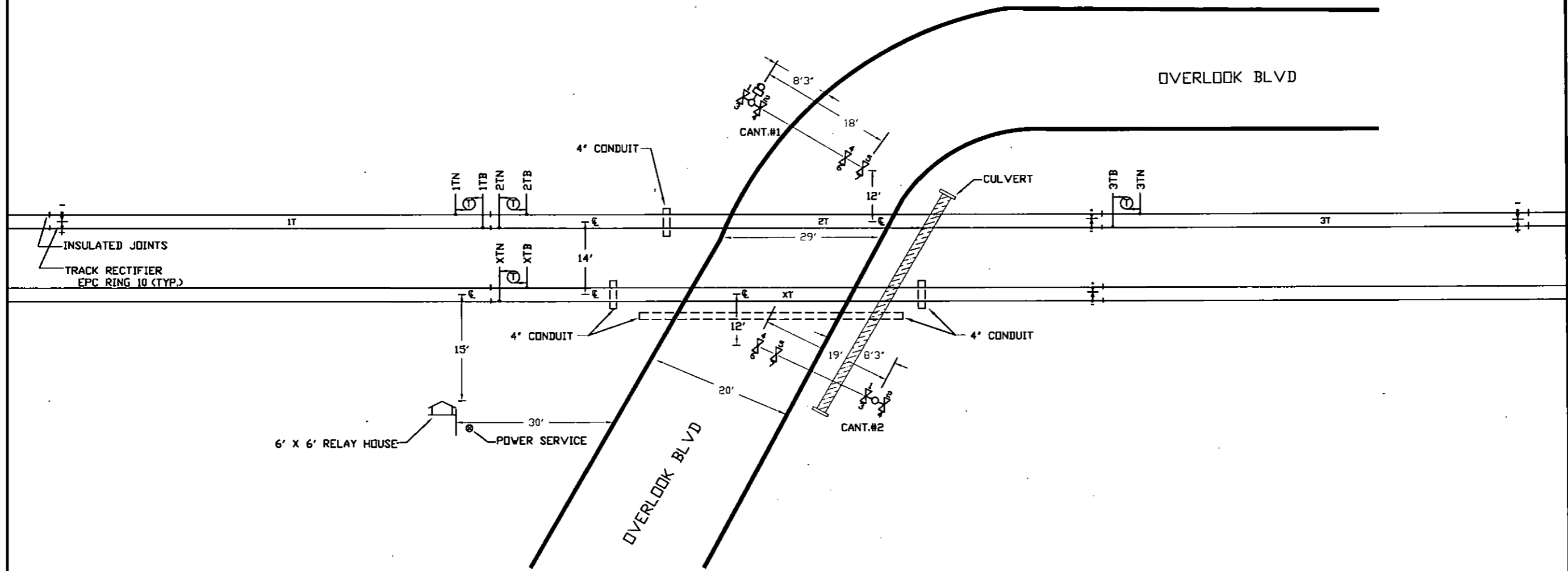
RELAY HOUSE LAYOUT DRAWING NUMBER 13.59

NORTH

SOUTH

OVERLOOK BOULEVARD
START 440'
30 SECS. @ 10 MPH

OVERLOOK BOULEVARD
START 440'
30 SECS. @ 10 MPH



RCVD PUC SEC BUR
FEB 23 2023 AM 10:54

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. FLASHLIGHT SIGNALS & GATE LIGHTS TO BE LIGHT EMITTING DIODE ASSEMBLIES, (LED).
4. \textcircled{T} DENOTES TWIST PAIR.

CABLE RUN TABULATION

- | | |
|---------------------|-----------------------|
| HOUSE TO CANT. #1 | - 5/C #6 UG CABLE |
| | - 7/C #14 UG CABLE |
| HOUSE TO CANT. #2 | - 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 TWISTED PAIR |
| HOUSE TO 2TN & 2TB | - 2/C #6 TWISTED PAIR |
| HOUSE TO 3TN & 3TB | - 2/C #6 TWISTED PAIR |
| HOUSE TO XTN & XTB | - 2/C #6 TWISTED PAIR |

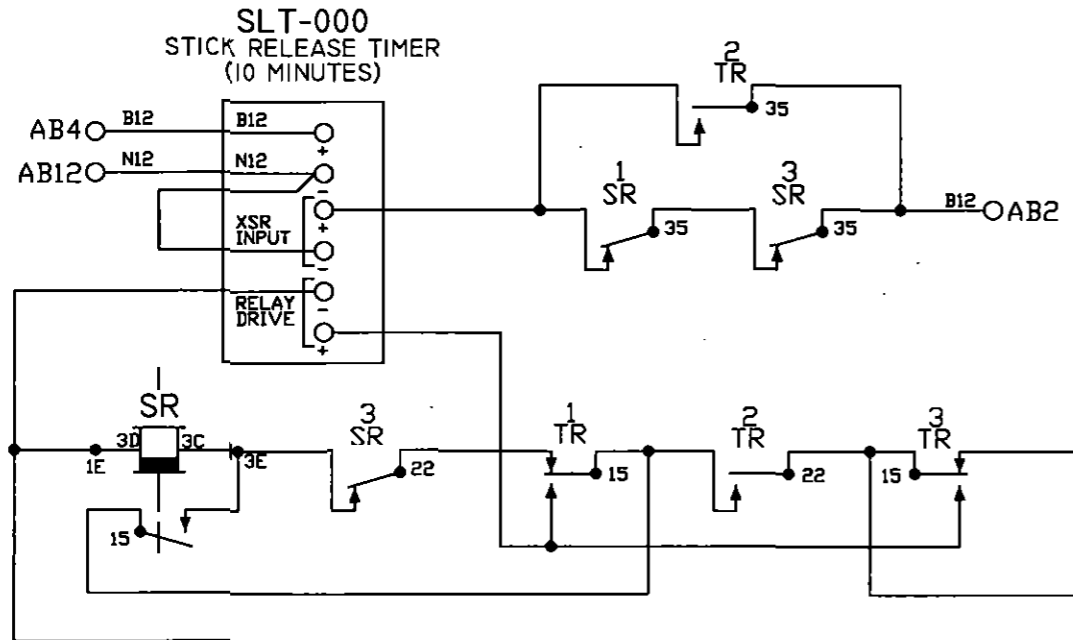
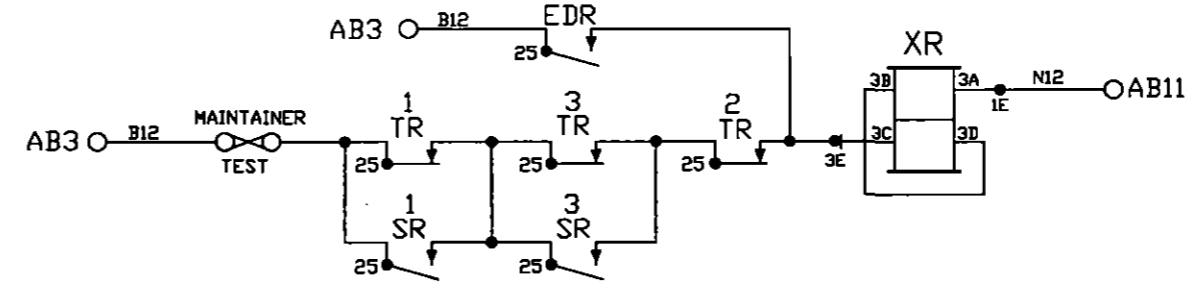
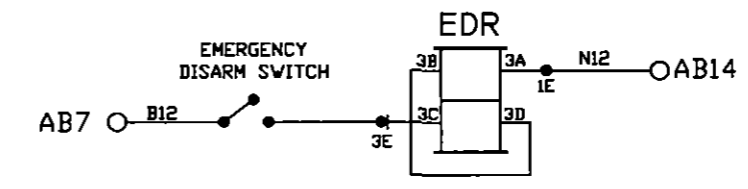
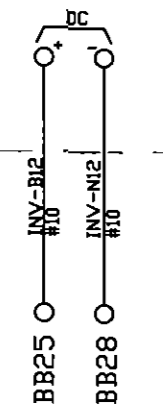
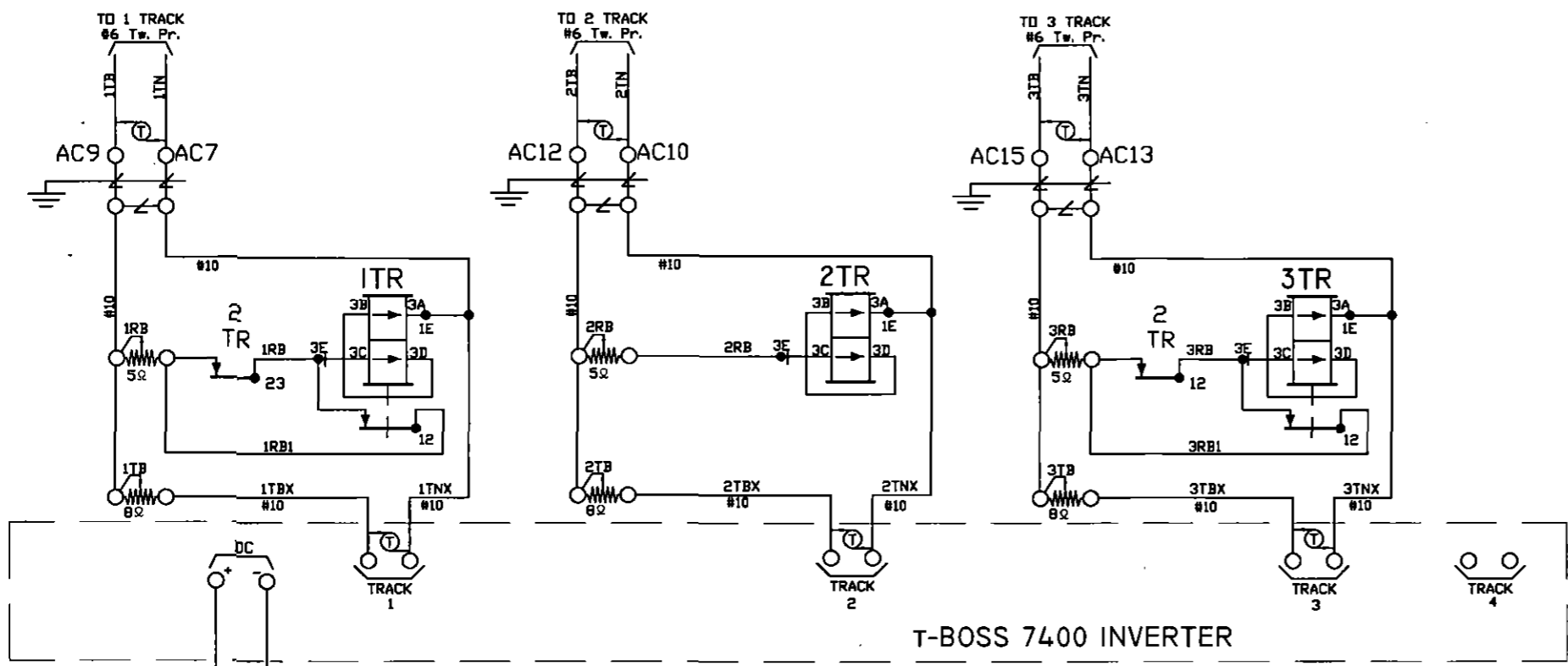
DIAMONDBACK SIGNAL

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

AS WIRED

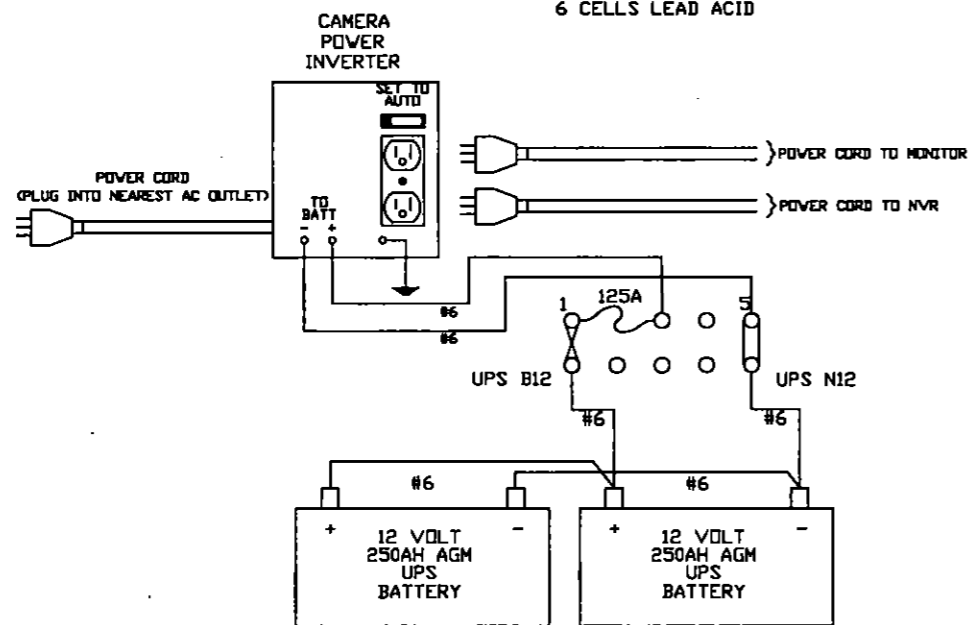
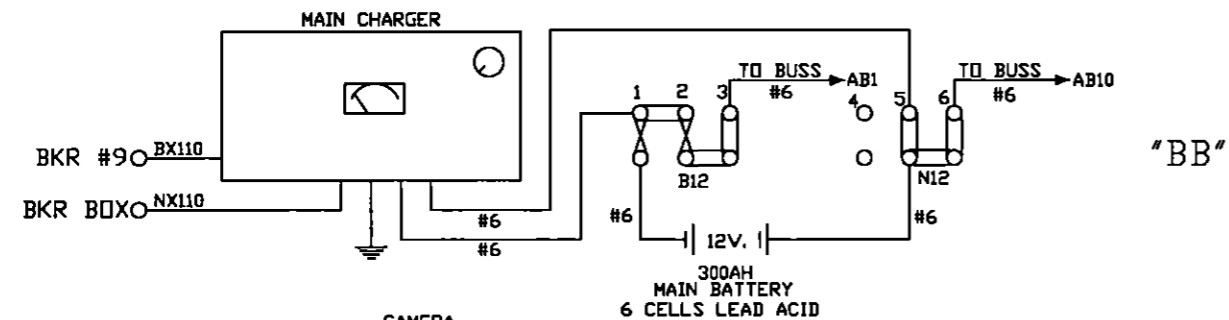
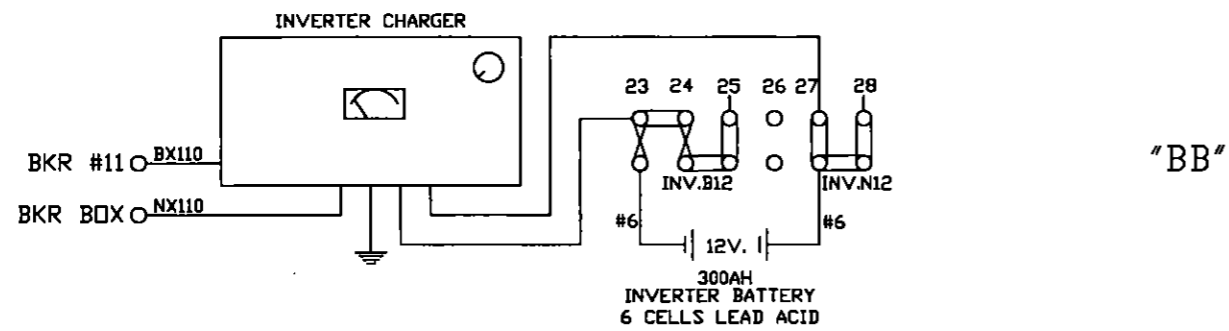
AS INSTALLED

SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES	
SCALE: NONE	APPROVED BY:
DATE: 03/03/2022	DRAWN BY: JBS
OVERLOOK BOULEVARD-DOT #534 834G - M.P. 15.27 PAXINOS, NORTHUMBERLAND COUNTY, PA	
TRACK & CABLE PLAN	DRAWING NUMBER 13.59



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

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 03/03/2022		REVISED:
OVERLOOK BOULEVARD-DOT #534 834G - M.P. 15.27 PAXINOS, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN 'A'		DRAWING NUMBER 13.59	

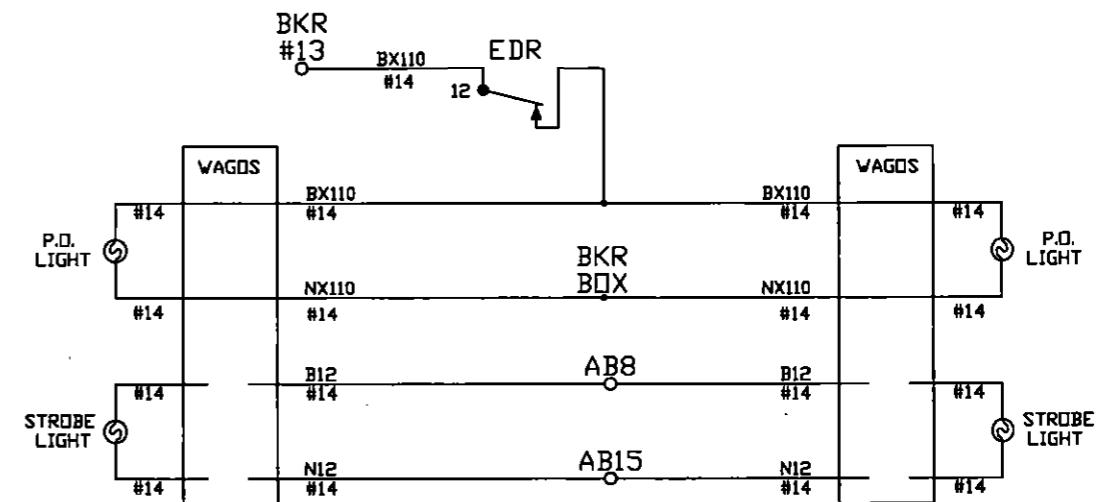
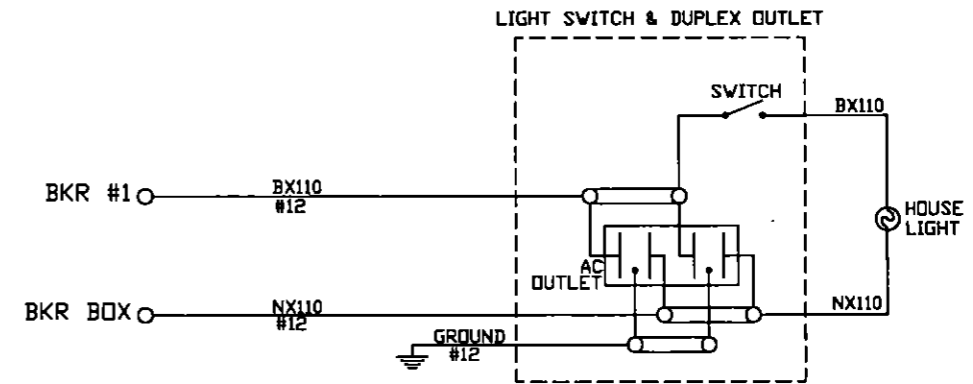
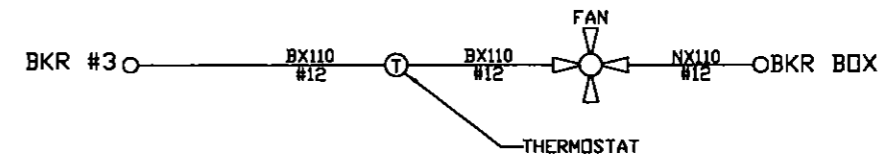
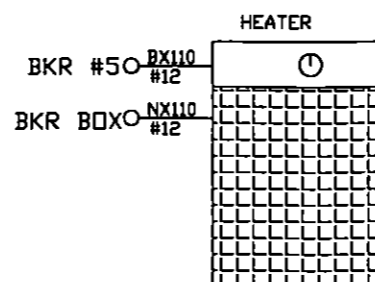
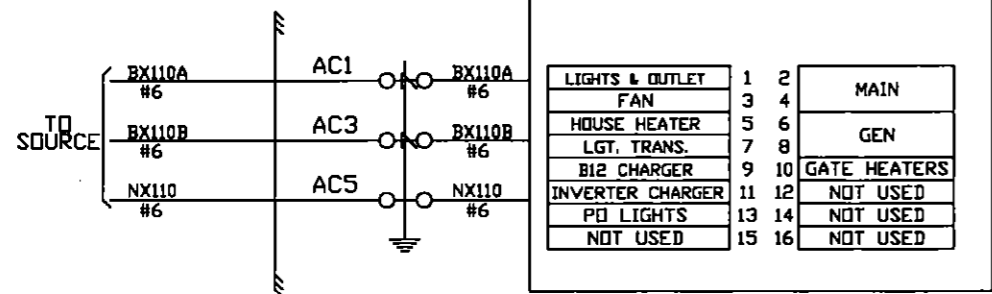


"CB"

ERICO EPD
120/240

VENT FAN
THERMOSTAT

BREAKER BOX



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

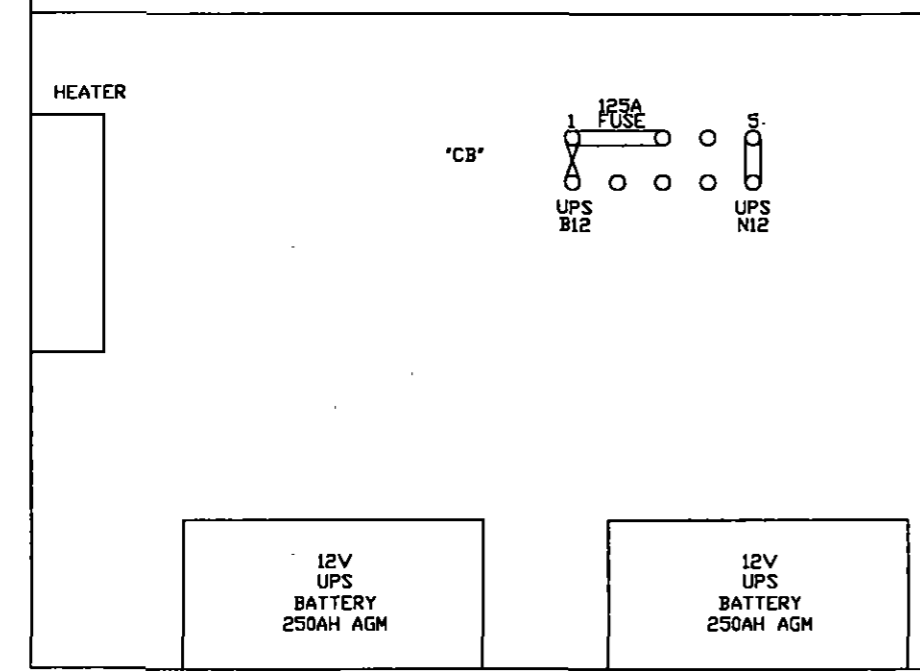
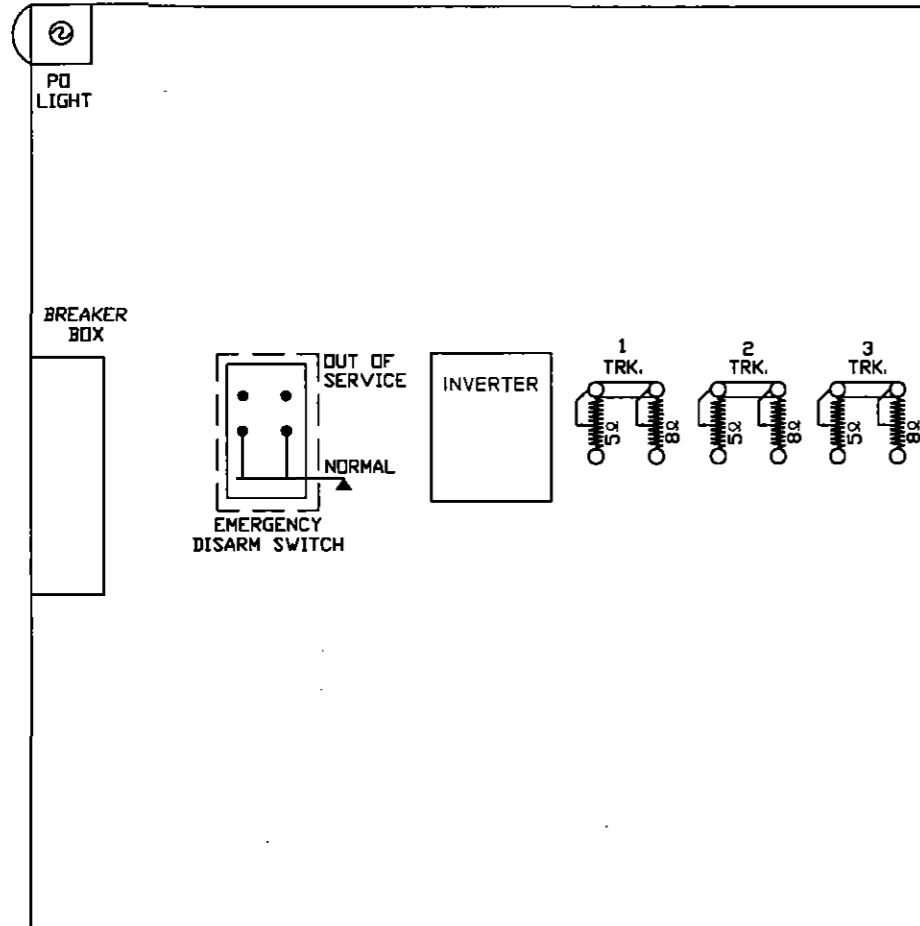
AS WIRED AS INSTALLED

**DIAMONDBACK
SIGNAL**

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

SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		DRAWN BY: DBS	
SCALE: NONE	APPROVED BY:	REVISED:	
DATE: 03/03/2022		OVERLOOK BOULEVARD-DOT #534 834G - M.P. 15.27 PAXINOS, NORTHUMBERLAND COUNTY, PA	
CIRCUIT PLAN 'D'		DRAWING NUMBER 13.59	

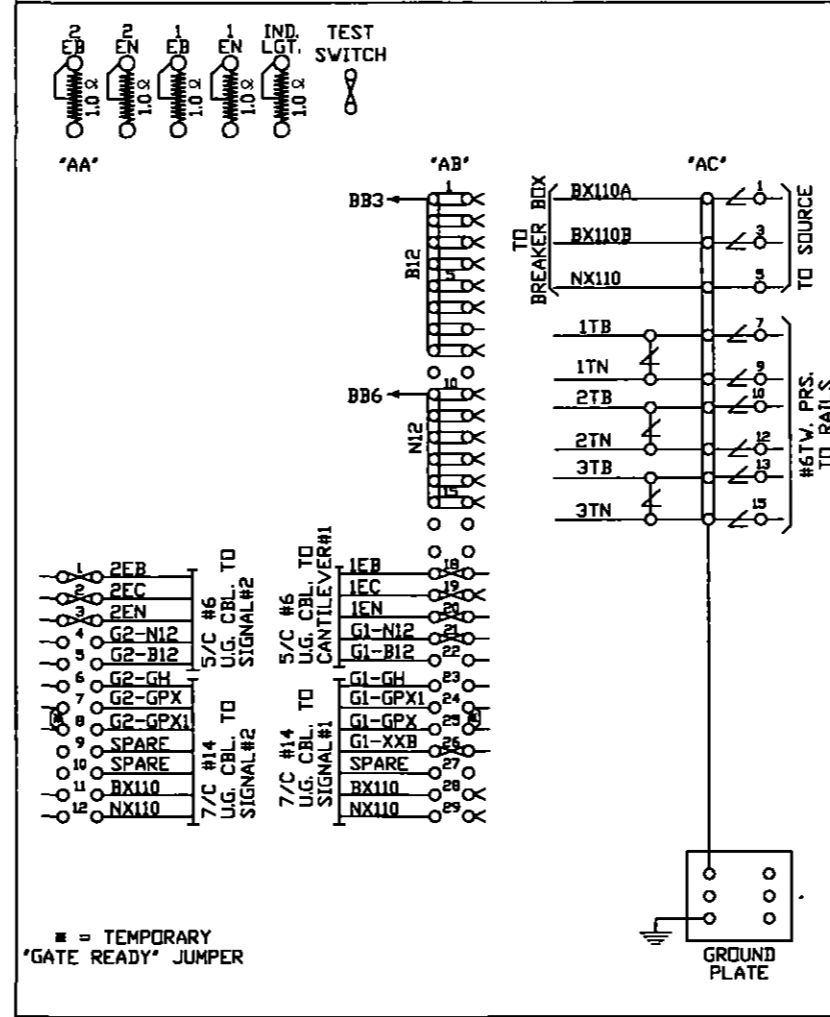
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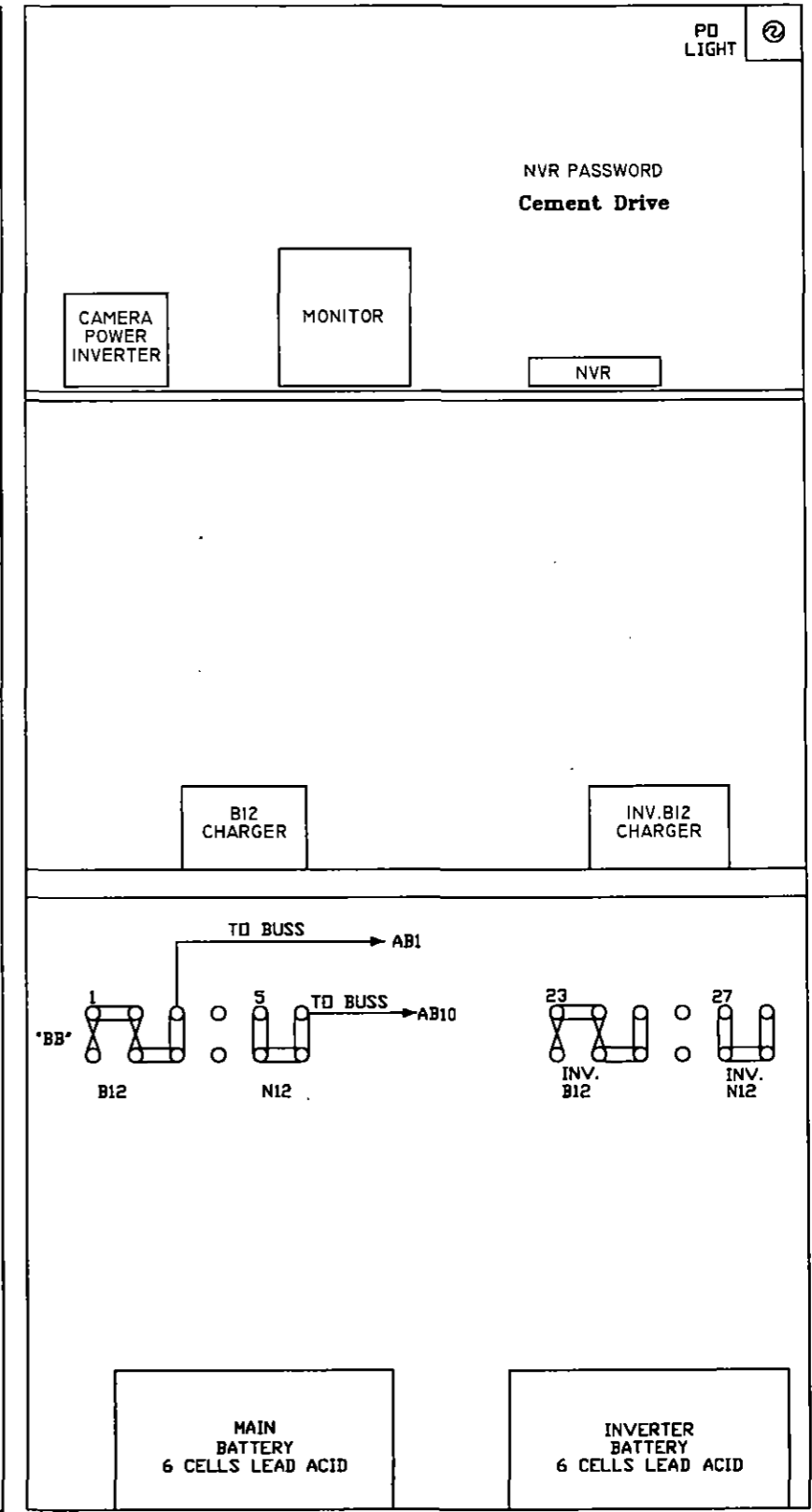
SIDE "A"

LIGHT TRANS.	POR	12 FB	12 FB	12 B	12 F	12	12 B
		15 FB	15 FB	15 B	15	15	15
		22	32 FB	22 B	22	32 F	22
		25	35 FB	23	25 F	35 F	25 F
		32 FB		25	32		32 B
	35 FB		32	35 B		35	
			35				
	A62-406	A62-671	A62-310	A62-262	A62-360	A62-262	
	400800	400700-X	400020	400000	400200	400000	

	SR	TR	2 TR	3 TR	3 SR	SLT-000 STICK RELEASE TIMER (10 MIN)
	12	12 F	12 F	12 F	12	
	15	15 FB	15	15 FB	15 F	
	22	22 B	22 B	22	22 B	
	23	23	23 F	23	23	
	25	25 F	25 F	25 F	25 F	
	32	32	32	32	32	
	35	35	35 B	35	35 B	
	A62-357	A62-120	A62-120	A62-120	A62-357	
	400211	400510	400510	400510	400211	



SIDE "B"



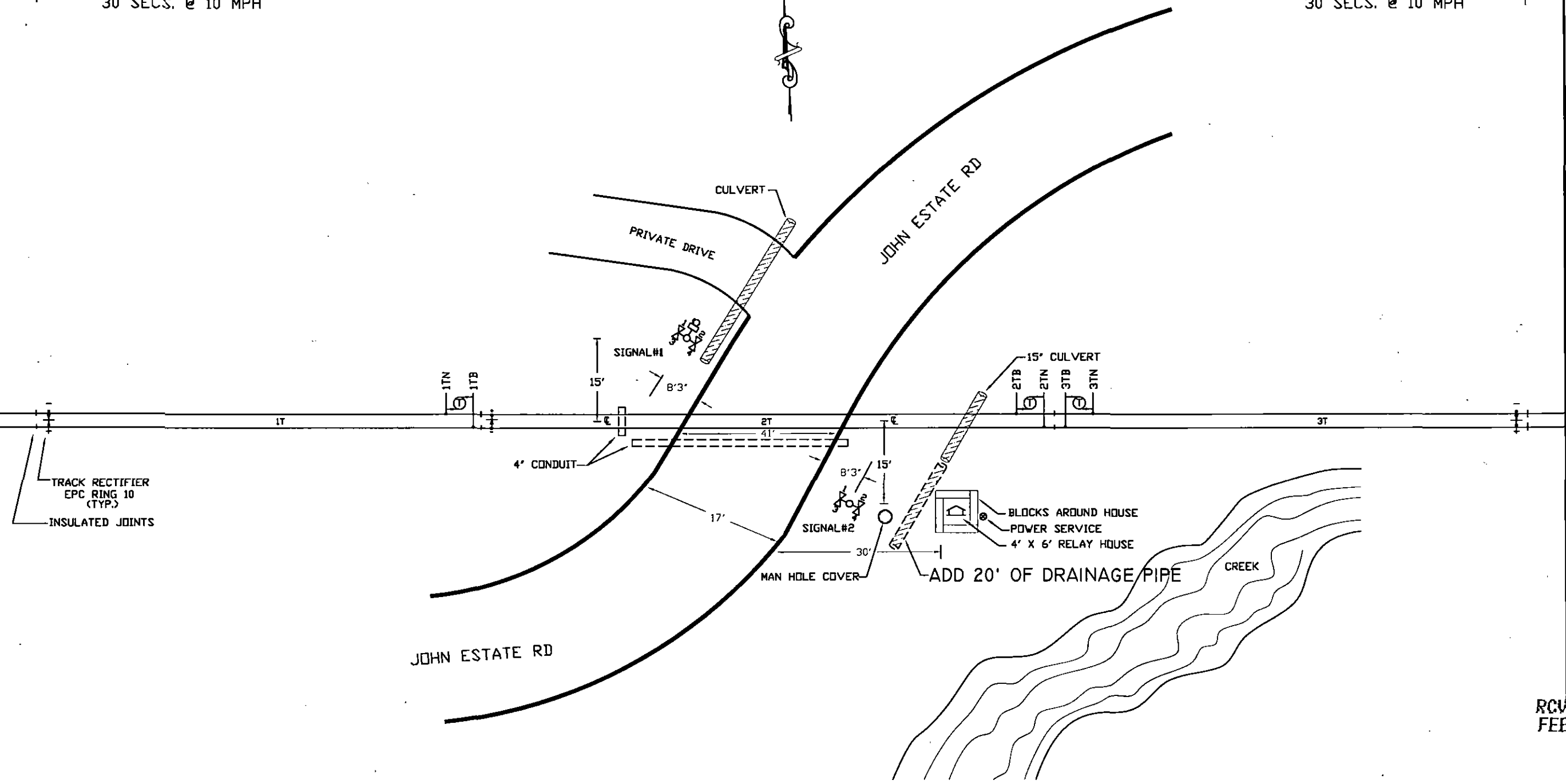
<p>DIAMONDBACK SIGNAL</p> <p>(410) 795-9601</p> <p>5965 EXCHANGE DRIVE</p> <p>SUITE "D"</p> <p>SYKESVILLE, MD 21784</p>	AS WIRED	AS INSTALLED	
	<p>SHAMOKIN VALLEY RAILROAD</p> <p>RAILROAD CROSSING WARNING DEVICES</p>		
	<p>SCALE: NONE</p> <p>DATE: 03/03/2022</p>	<p>APPROVED BY:</p> <p>REVISOR:</p>	<p>DRAWN BY: DBS</p> <p>REVISED:</p>
	<p>OVERLOOK BOULEVARD-DOT #534 834G - M.P. 15.27</p> <p>PAXINOS, NORTHUMBERLAND COUNTY, PA</p>		<p>DRAWING NUMBER</p> <p>13.59</p>

WEST ←

→ EAST

JOHN ESTATE ROAD
START 440'
30 SECS. @ 10 MPH

JOHN ESTATE ROAD
START 440'
30 SECS. @ 10 MPH



RCVD PLC SEC BUR
FEB 23 2023 AM 10:54

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. FLASHLIGHT SIGNALS & GATE LIGHTS TO BE LIGHT EMITTING DIODE ASSEMBLIES, (LED).
4. \textcircled{T} DENOTES TWIST PAIR.

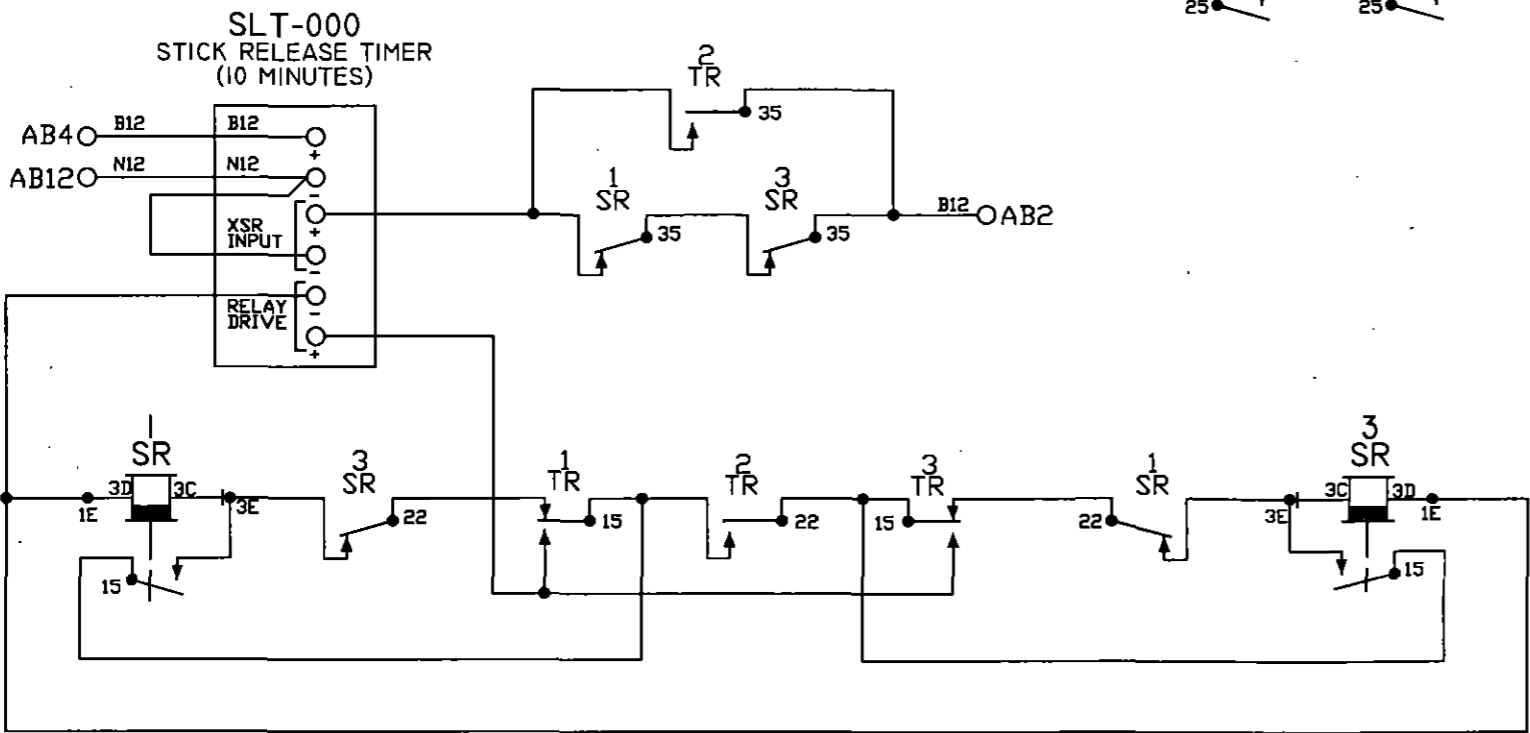
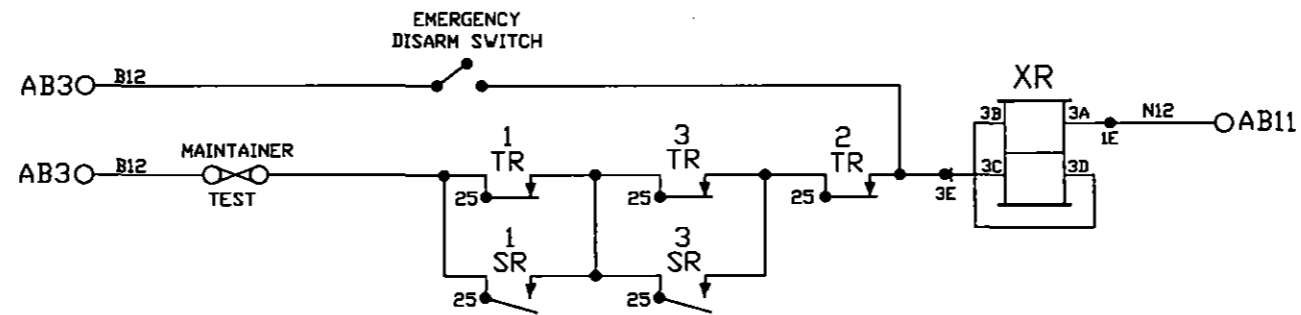
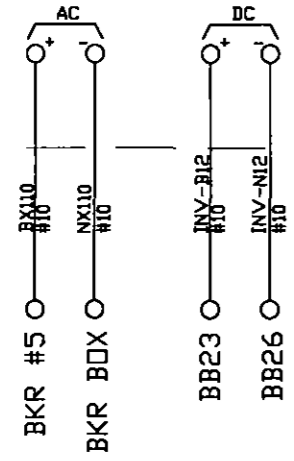
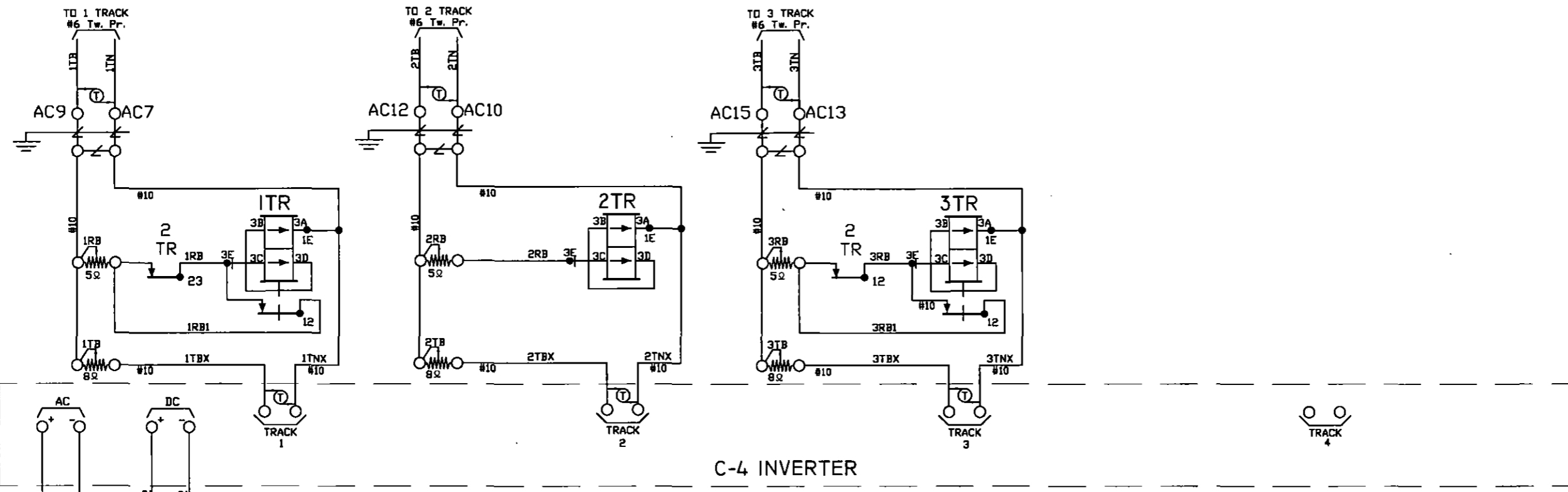
CABLE RUN TABULATION

HOUSE TO SIGNAL #1	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO SIGNAL #2	- 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 TWISTED PAIR
HOUSE TO 2TN & 2TB	- 2/C #6 TWISTED PAIR
HOUSE TO 3TN & 3TB	- 2/C #6 TWISTED PAIR

DIAMONDBACK SIGNAL

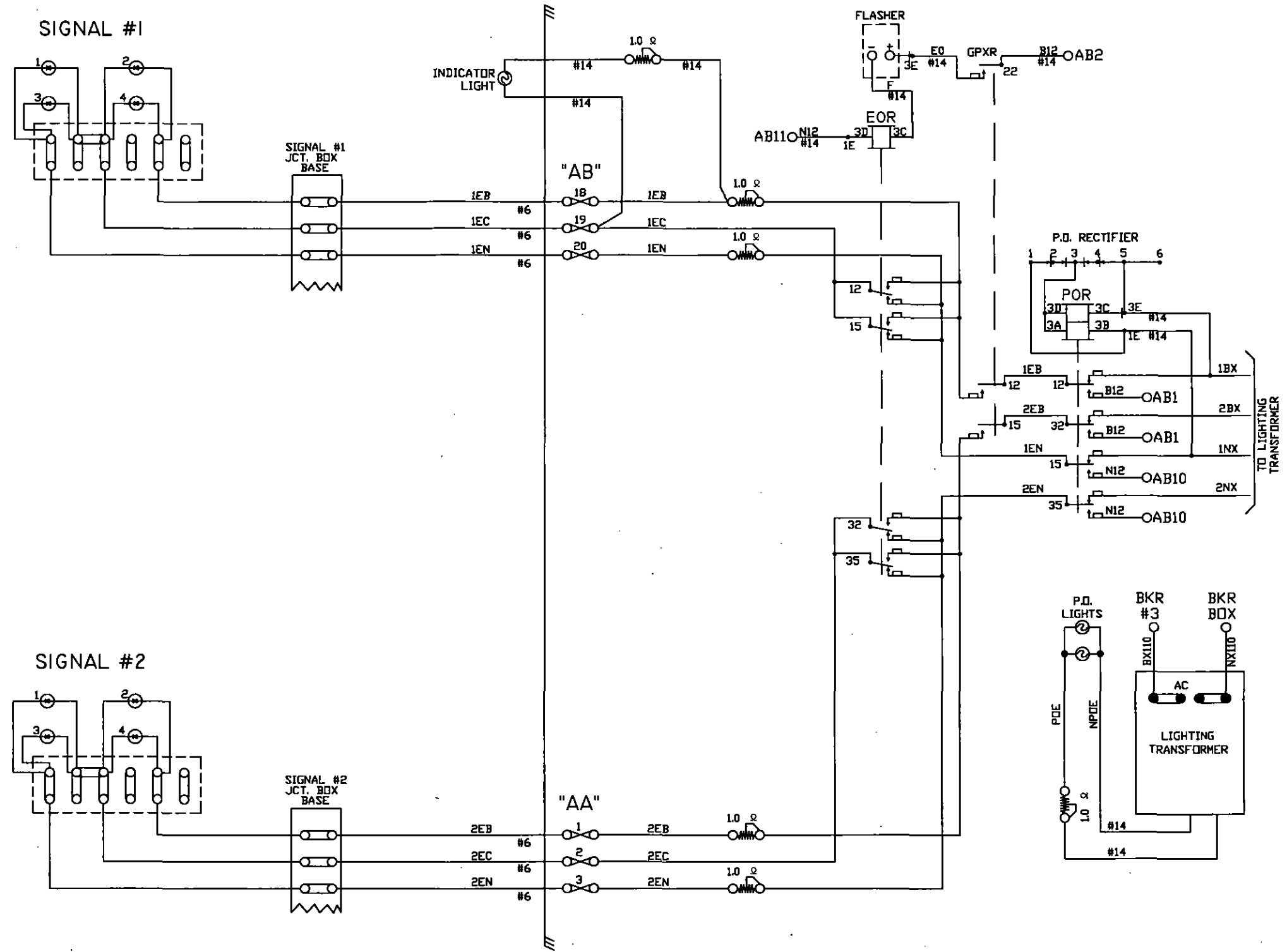
(410) 795-9601
5965 EXCHANGE DRIVE
SUITE 'D'
SYKESVILLE, MD
21784

AS WIRED		AS INSTALLED	
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 03/04/2022		REVISED:	
JOHNS ESTATE ROAD - DOT #534 836V - M.P. 16.80 SHAMOKIN, NORTHUMBERLAND COUNTY, PA			
TRACK & CABLE PLAN			DRAWING NUMBER 16.80



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

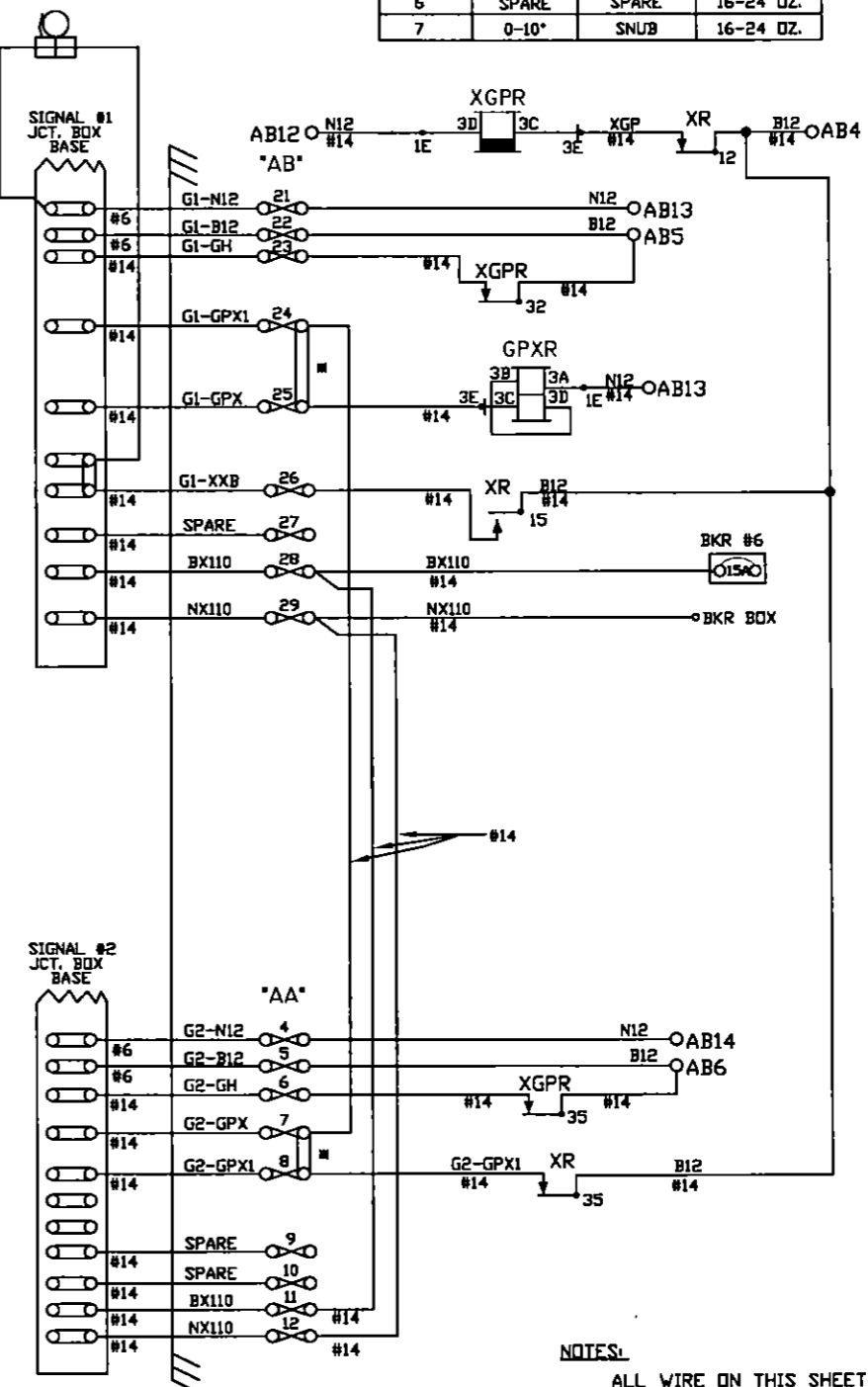
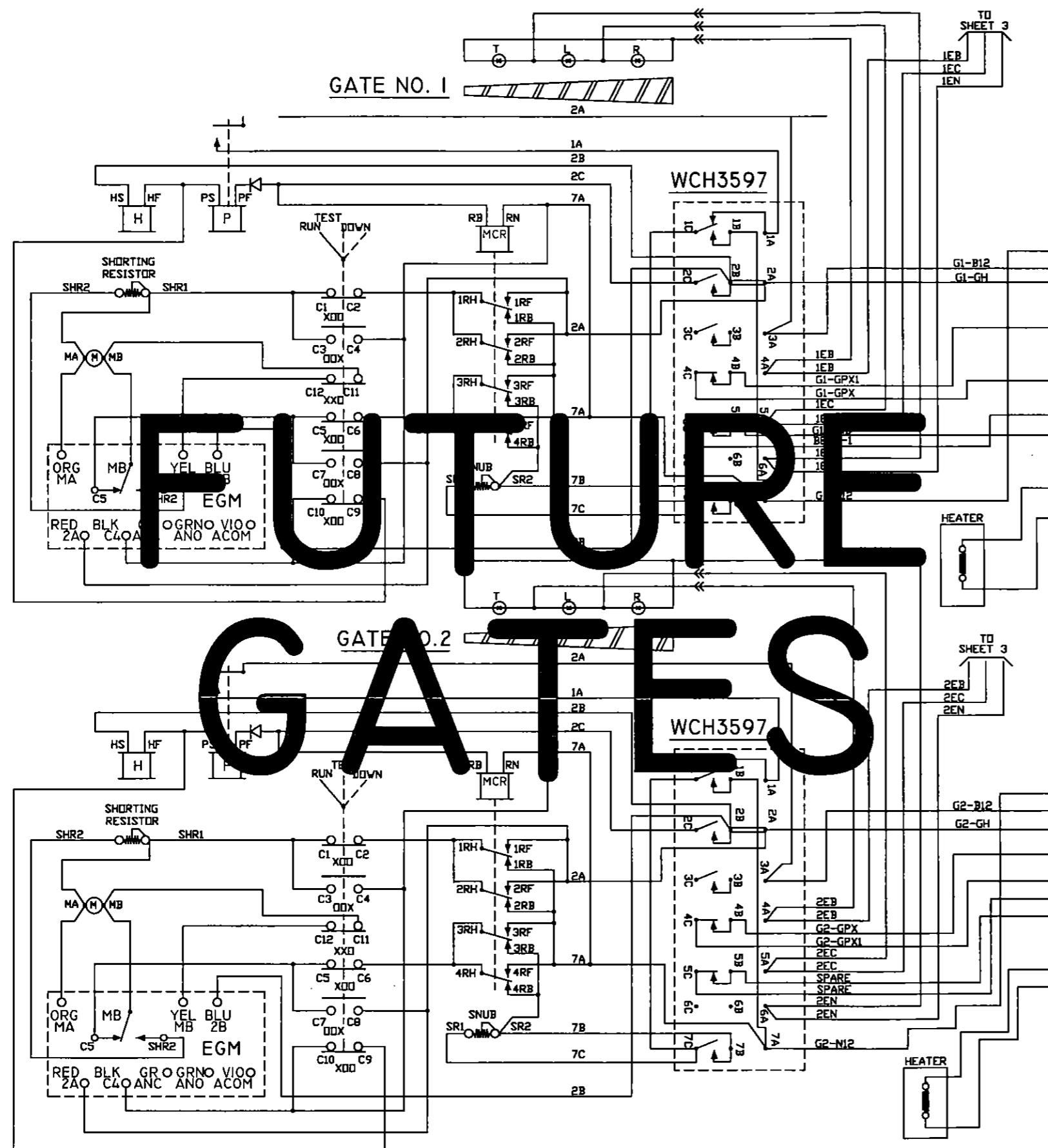
DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES	
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
DATE: 03/04/2022		REVISED:
JOHNS ESTATE ROAD - DOT #534 836V - M.P. 16.80 SHAMOKIN, NORTHUMBERLAND COUNTY, PA		
CIRCUIT PLAN 'A'		DRAWING NUMBER 16.80



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

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 03/04/2022		REVISED:
JOHNS ESTATE ROAD - DOT #534 836V - M.P. 16.80 SHAMOKIN, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN 'B'		DRAWING NUMBER 16.80	

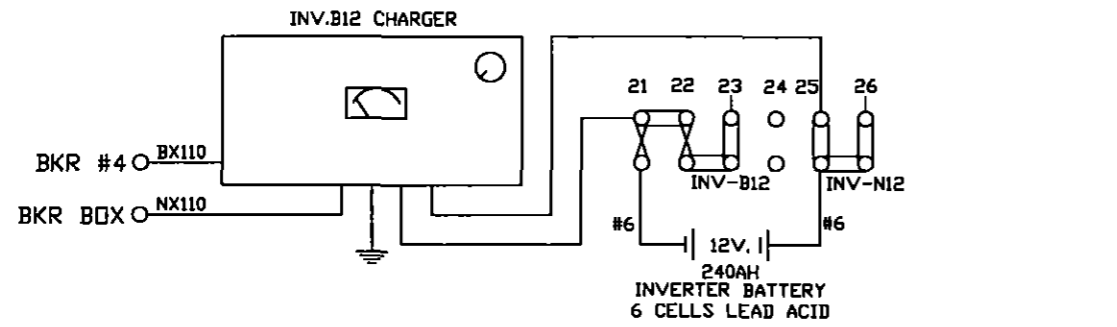
CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	B2-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.



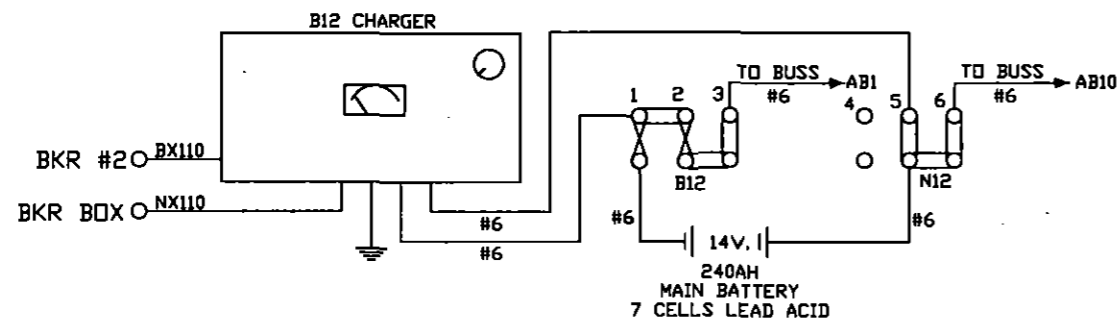
FUTURE GATES

NOTES:
 ALL WIRE ON THIS SHEET IS #10AWG UNLESS OTHERWISE NOTED.
 ■ = TEMPORARY 'GATE READY' JUMPER. AS INSTALLED

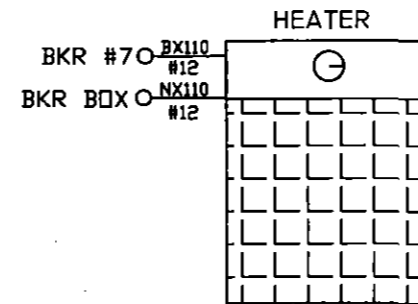
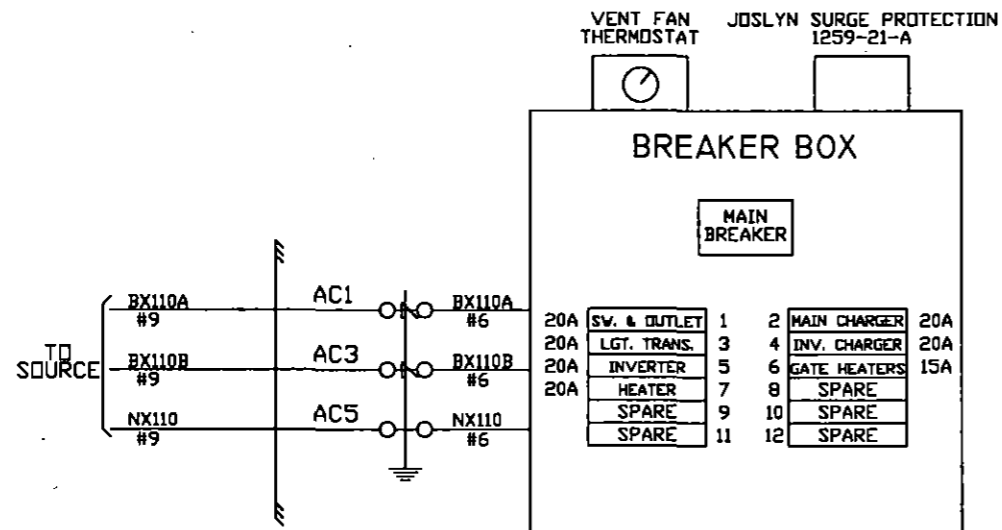
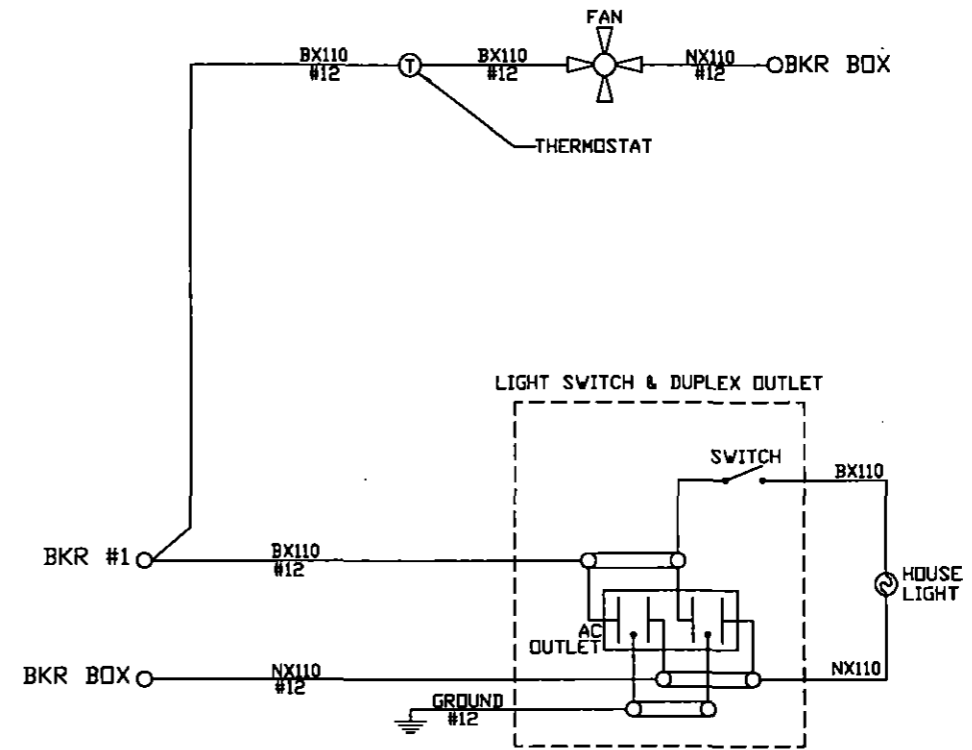
DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES	
	SCALE: NONE	APPROVED BY:
	DATE: 03/04/2022	DRAWN BY: DBS
	JOHNS ESTATE ROAD - DOT #534 836V - M.P. 16.80 SHAMOKIN, NORTHUMBERLAND COUNTY, PA	
CIRCUIT PLAN 'C'		DRAWING NUMBER 16.80



"BB"



"BB"



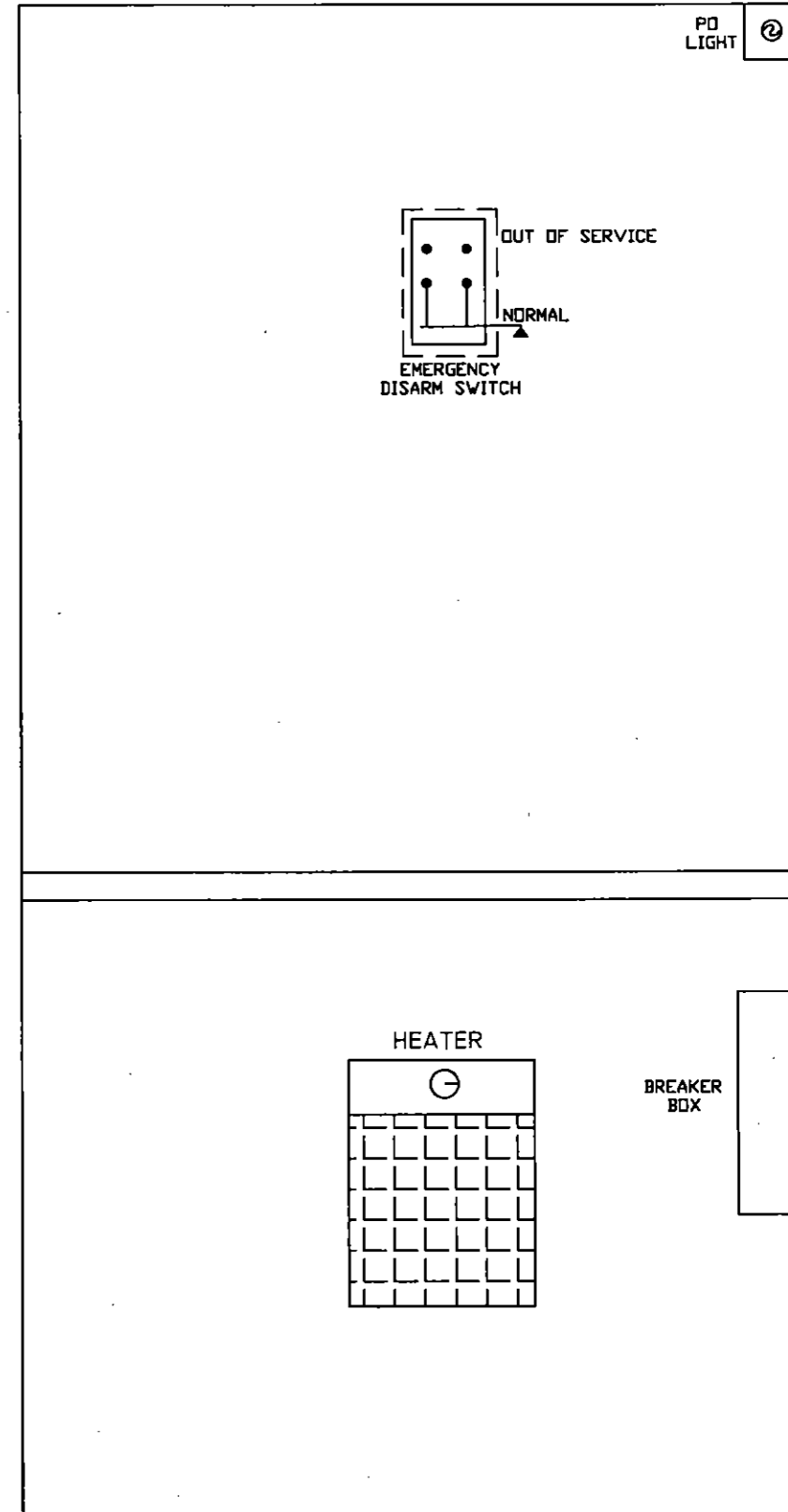
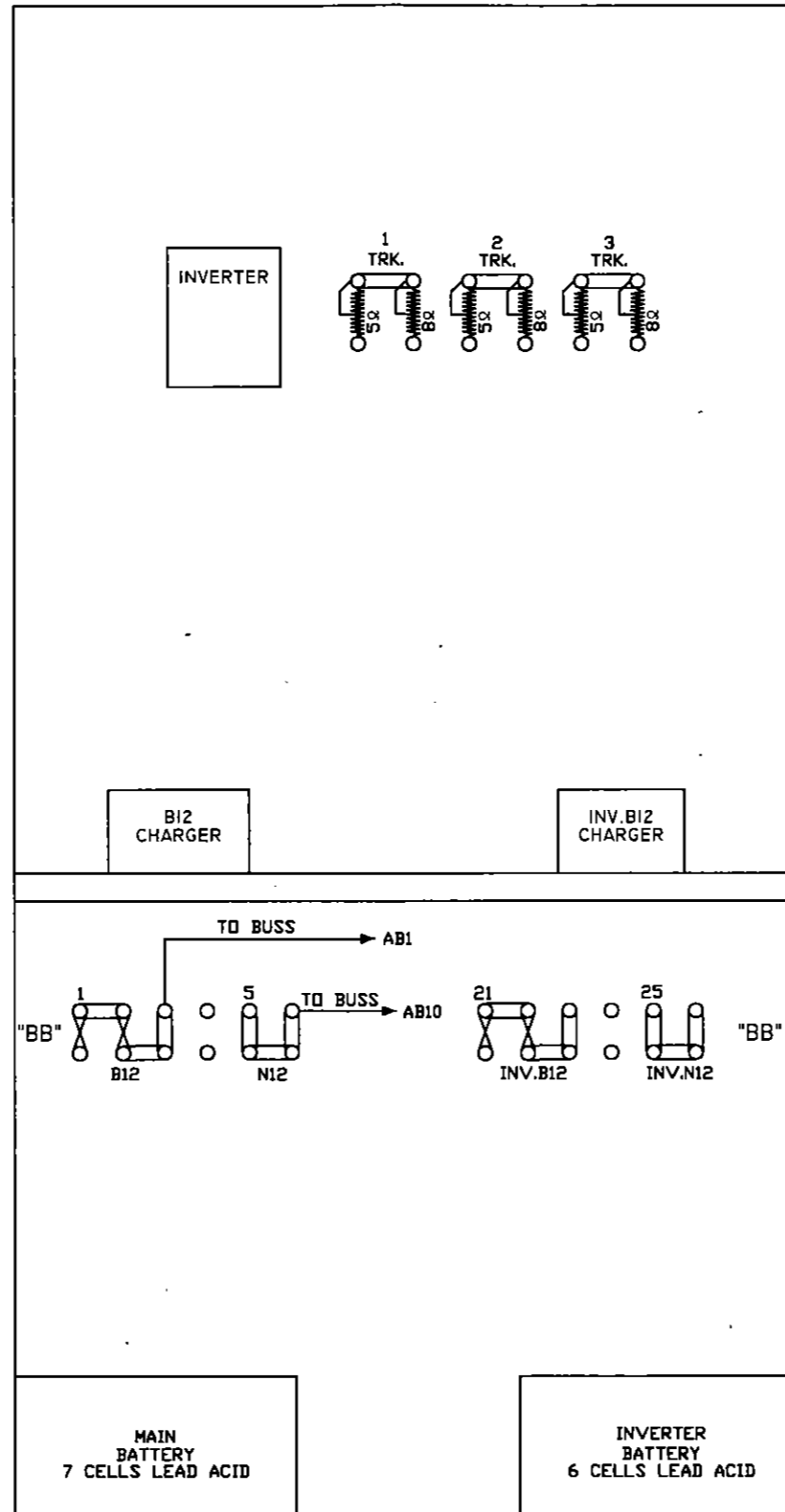
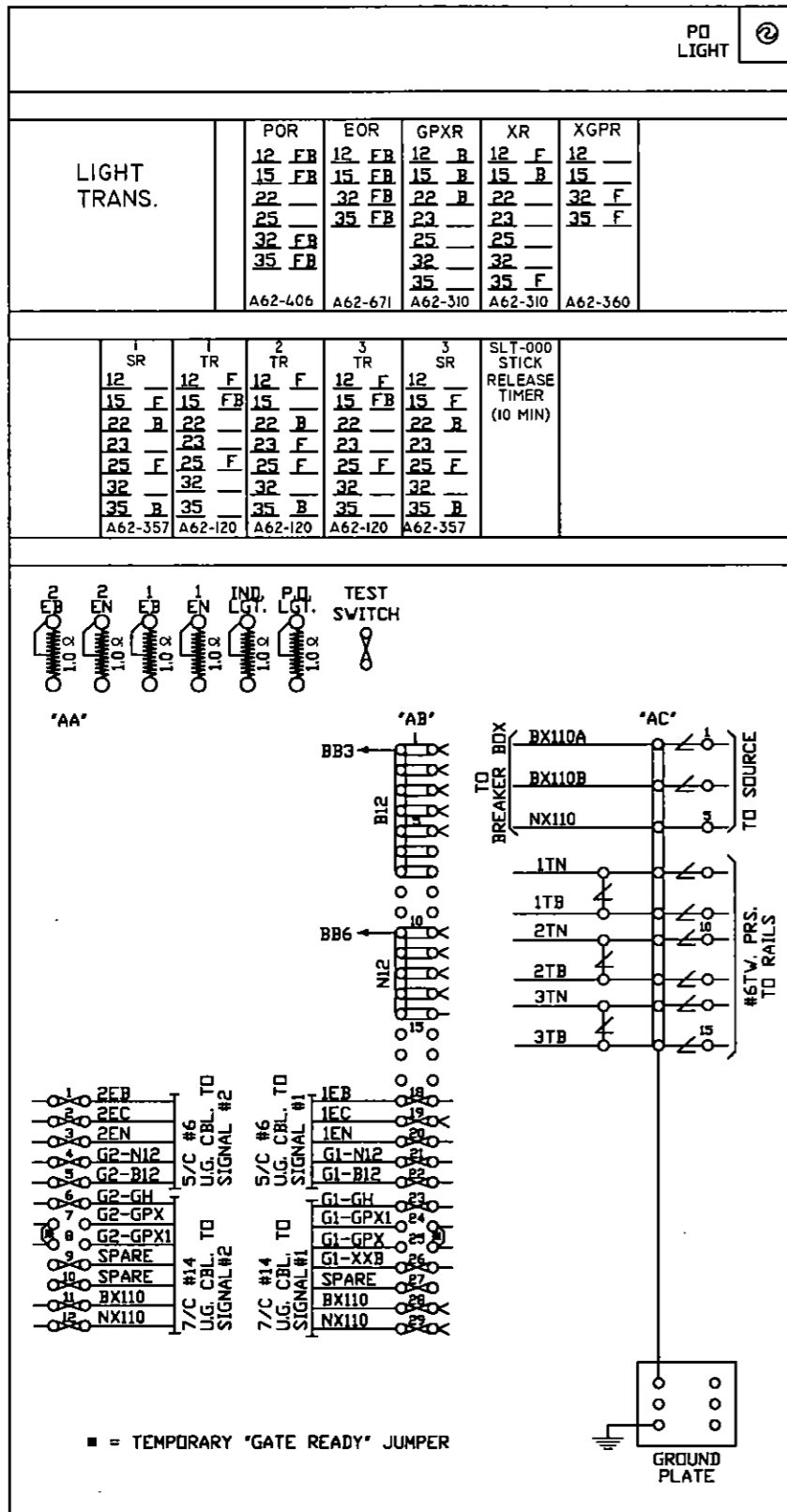
NOTE:
ALL WIRE THIS SHEET IS #10 AWG FLEX
UNLESS OTHERWISE NOTED.

AS WIRED		AS INSTALLED	
DIAMONDBACK SIGNAL			
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 03/04/2022		REVISED:	
JOHNS ESTATE ROAD - DOT #534 836V - M.P. 16.80 SHAMOKIN, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN "D"			DRAWING NUMBER 16.80

SIDE "A"

SIDE "B"

SIDE "C"



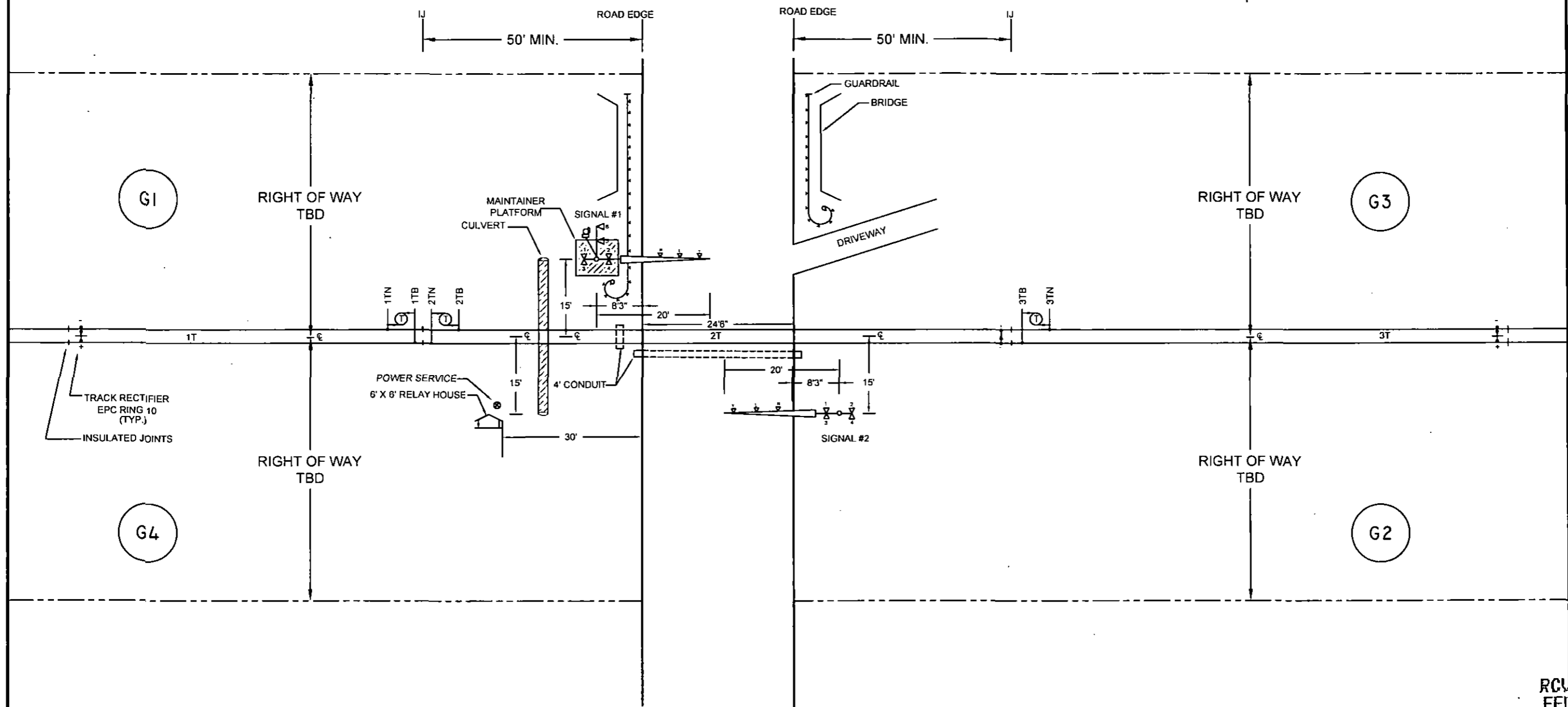
DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: JBS
	DATE: 03/04/2022		REVISED:
JOHNS ESTATE ROAD - DOT #534 836V - M.P. 16.80 SHAMOKIN, NORTHUMBERLAND COUNTY, PA			
RELAY HOUSE LAYOUT		DRAWING NUMBER 16.80	

EAST ←

WEST →

BOTTLE DRIVE
START 440
34 SEC. @ 10 MPH

BOTTLE DRIVE
START 440'
34 SEC. @ 10 MPH



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. FLASHLIGHT SIGNALS & GATE LIGHTS TO BE LIGHT EMITTING DIODE ASSEMBLIES, (LED).
4. T DENOTES TWIST PAIR.

CABLE RUN TABULATION

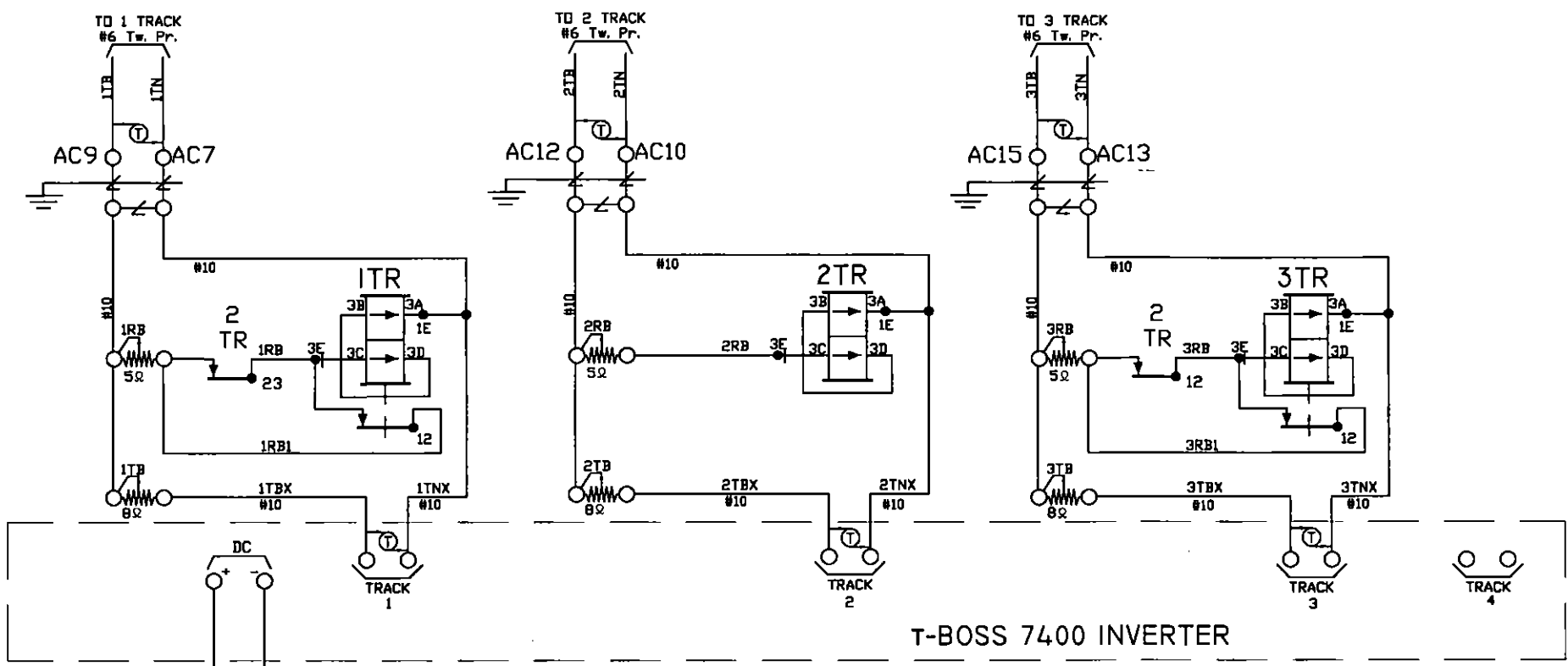
- HOUSE TO SIGNAL #1
- HOUSE TO SIGNAL #2
- HOUSE TO AC SERVICE
- HOUSE TO 1TN & 1TB
- HOUSE TO 2TN & 2TB
- HOUSE TO 3TN & 3TB

- 5/C #6 UG CABLE
- 7/C #14 UG CABLE
- 5/C #6 UG CABLE
- 7/C #14 UG CABLE
- 3/C #9 UG CABLE
- 2/C #6 TWISTED PAIR
- 2/C #6 TWISTED PAIR
- 2/C #6 TWISTED PAIR

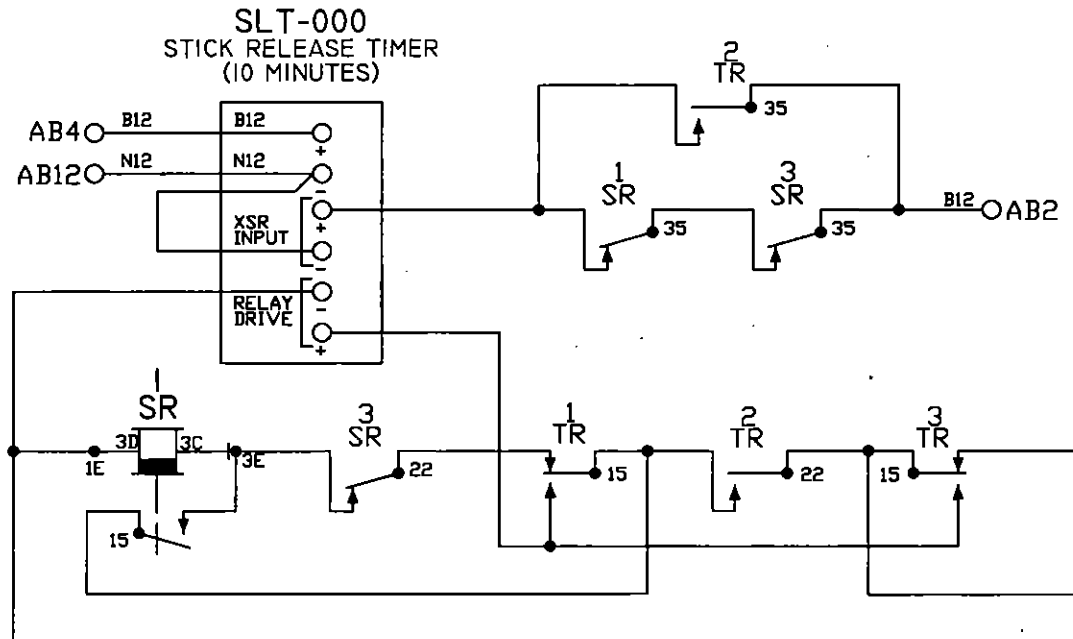
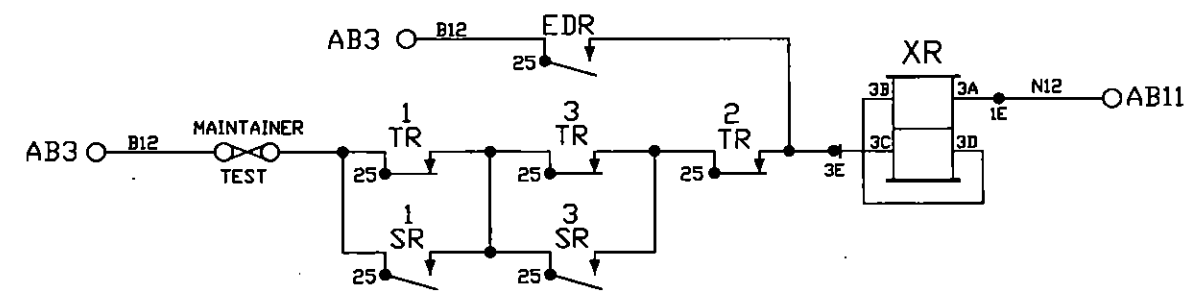
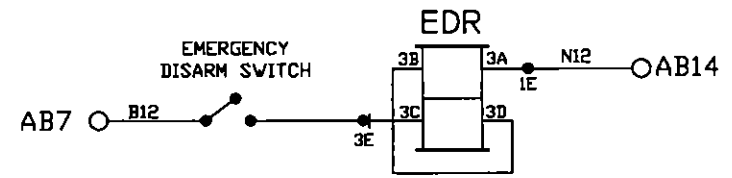
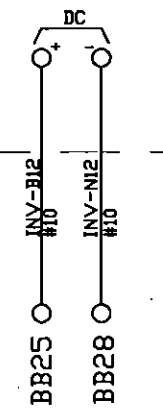
RCUD PUC SEC BLR
FEB 23 2023 AM 10:54

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

AS WIRED		AS INSTALLED	
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 03/04/2022		REVISED:	
BOTTLE DRIVE - DOT # 908 949M - M.P. 0.70 PAXINOS, NORTHUMBERLAND COUNTY, PA			
TRACK & CABLE PLAN			DRAWING NUMBER 0.70

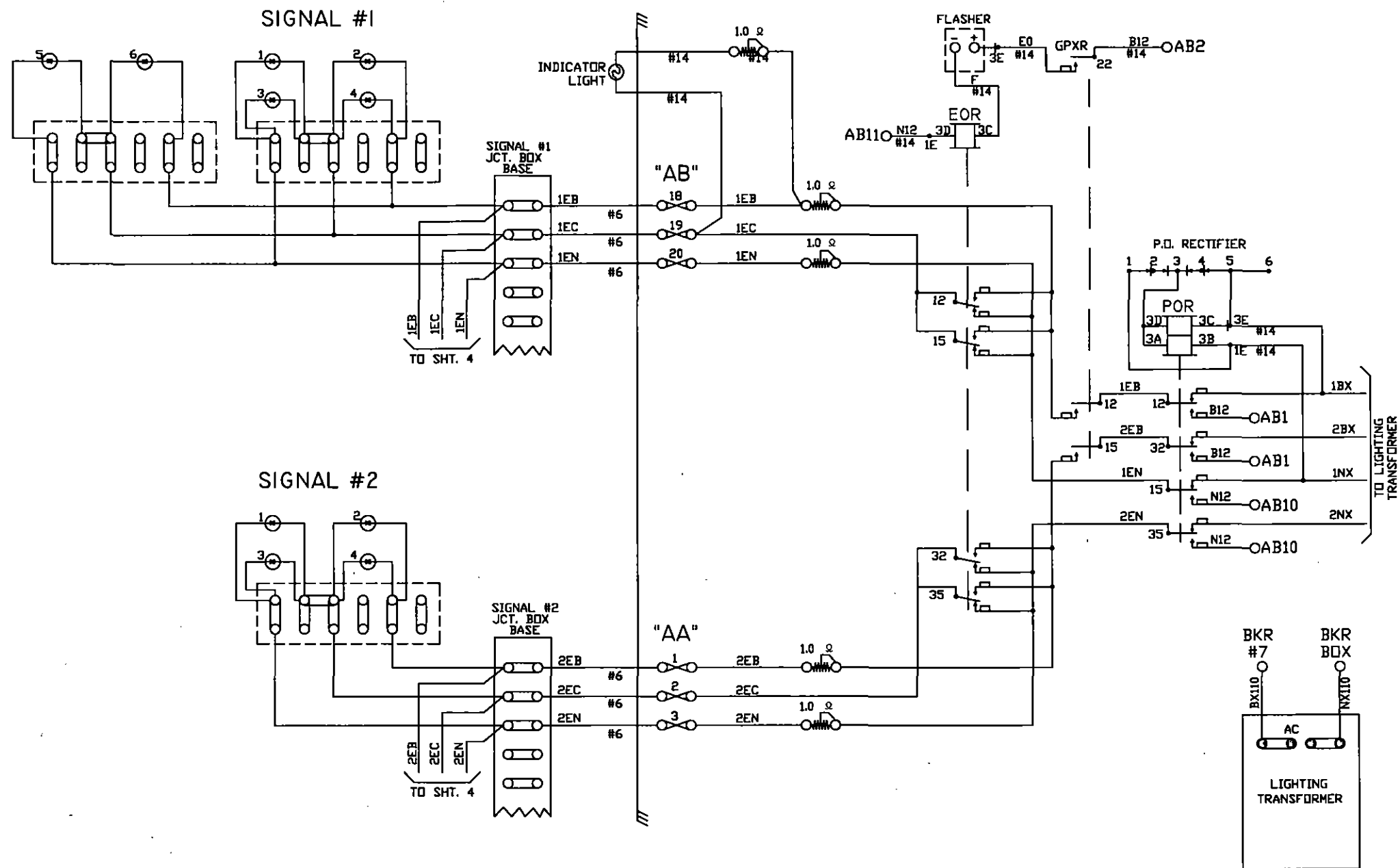


T-BOSS 7400 INVERTER



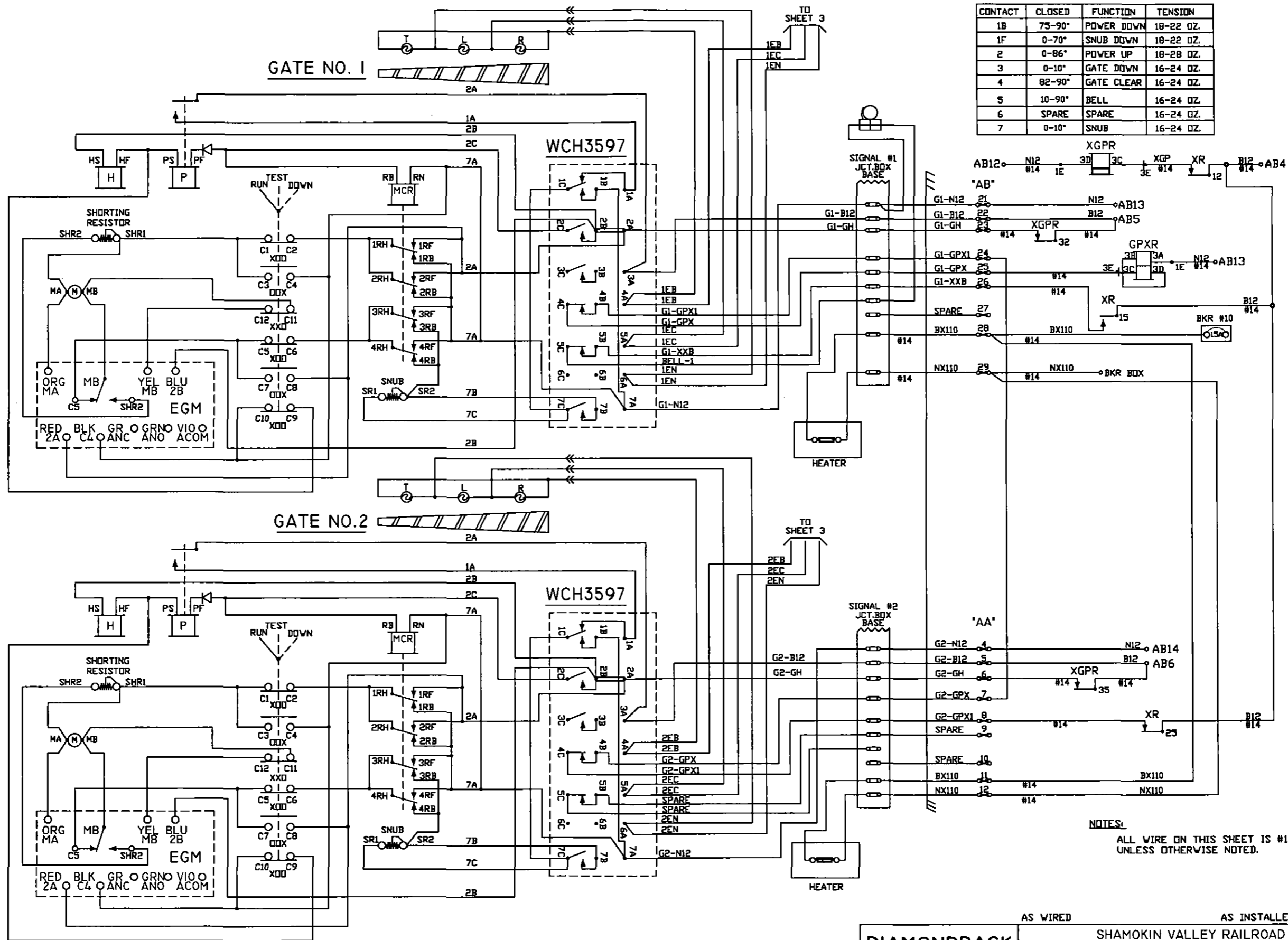
- NOTES:
1. ALL WIRE THIS SHEET IS #14 AWG FLEX UNLESS OTHERWISE NOTED.
 2. $\text{\textcircled{T}}$ DENOTES TWISTED PAIR.

DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED		AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
	DATE: 03/04/2022		REVISED:	
BOTTLE DRIVE - DOT # 908 949M - M.P. 0.70 PAXINOS, NORTHUMBERLAND COUNTY, PA				
CIRCUIT PLAN 'A'			DRAWING NUMBER 0.70	



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

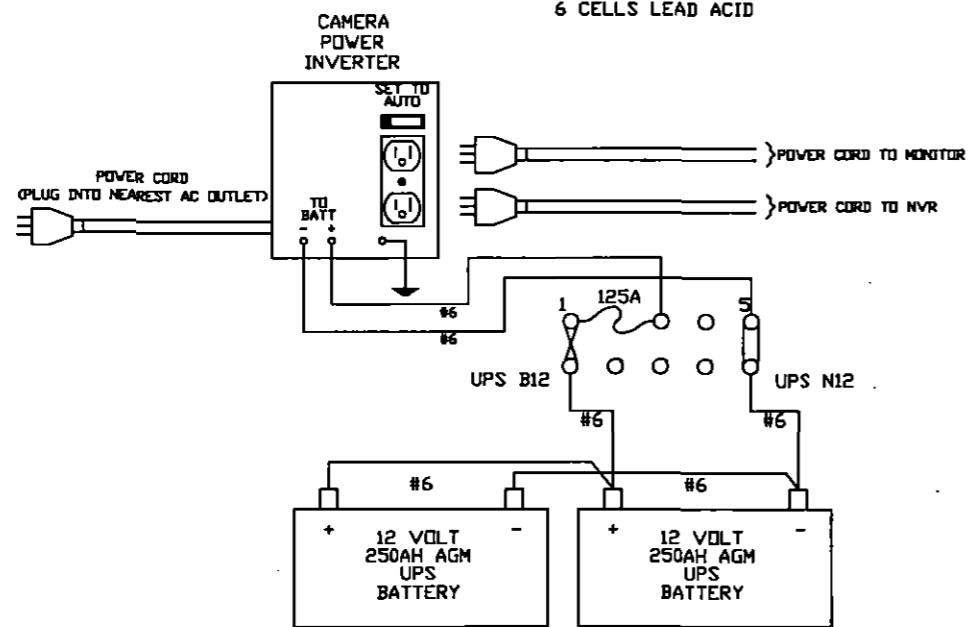
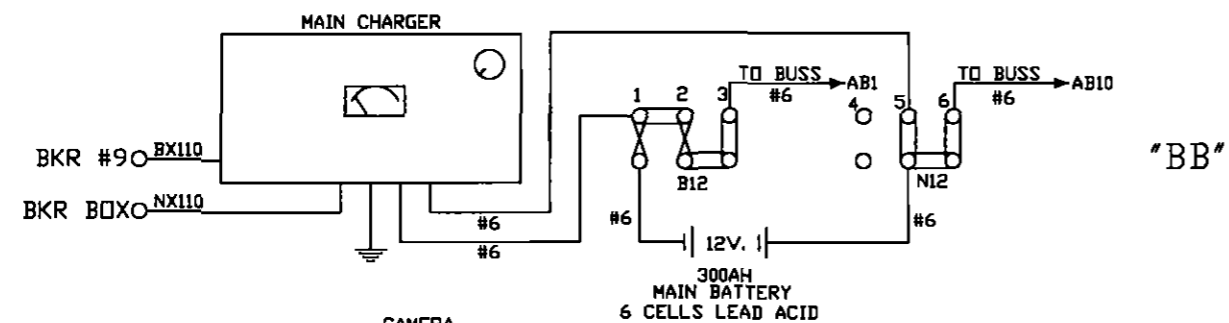
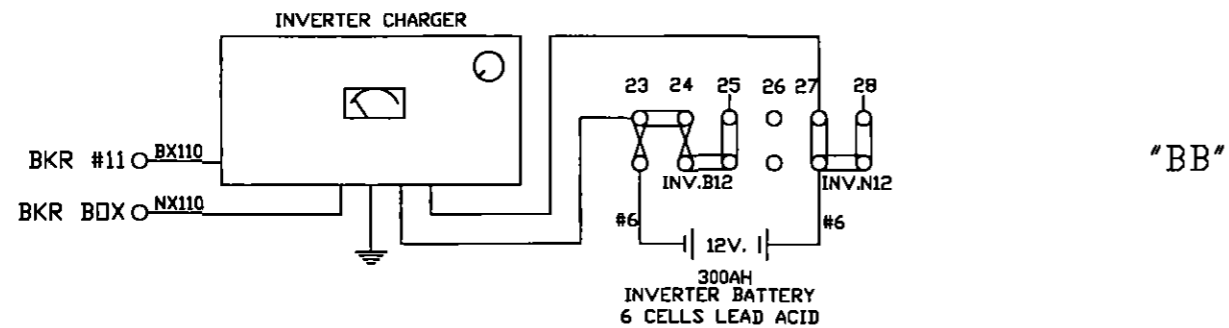
DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED		AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
	DATE: 03/04/2022		REVISED:	
BOTTLE DRIVE - DOT # 908 949M - M.P. 0.70 PAXINOS, NORTHUMBERLAND COUNTY, PA				
CIRCUIT PLAN "B"			DRAWING NUMBER 0.70	



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.

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

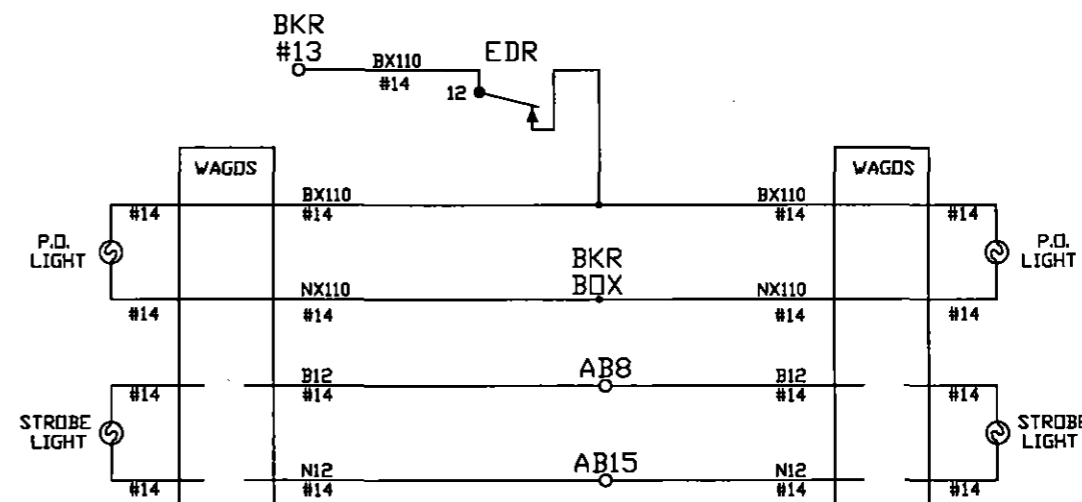
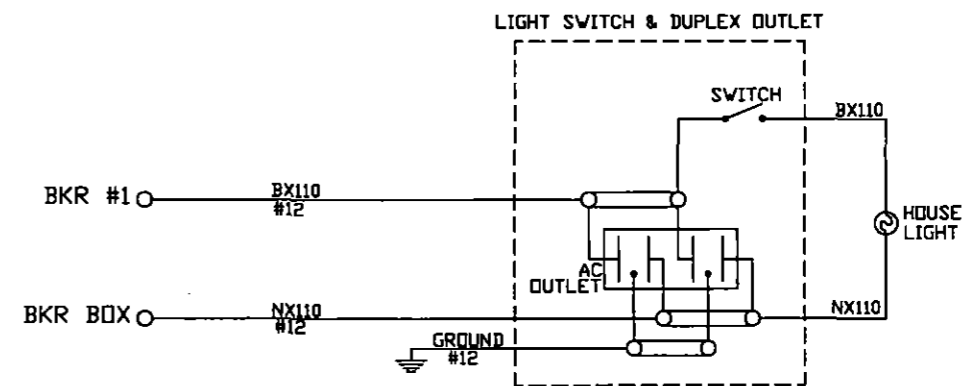
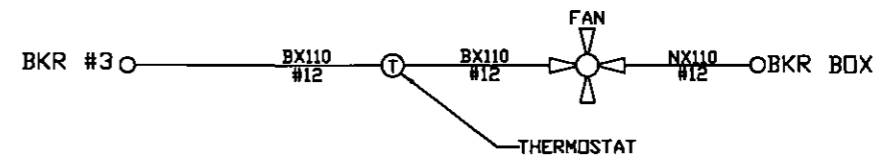
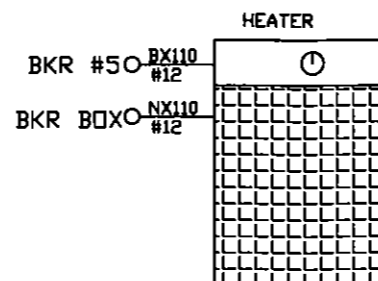
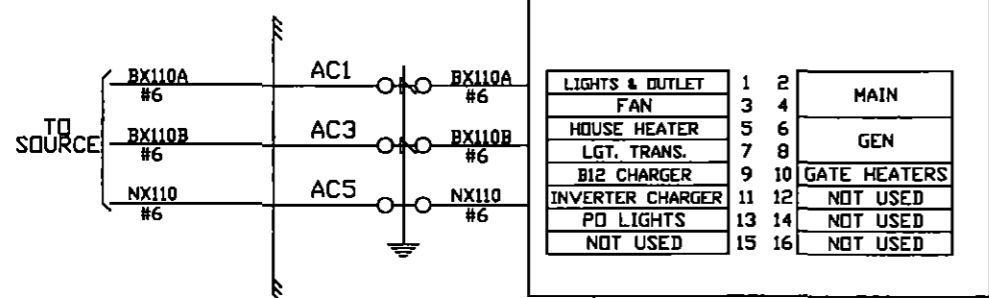
DIAMONDBACK SIGNAL (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 03/04/2022		REVISED:
BOTTLE DRIVE - DOT # 908 949M - M.P. 0.70 PAXINOS, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN "C"		DRAWING NUMBER 0.70	



"CB"

ERICO EPD 120/240
VENT FAN THERMOSTAT

BREAKER BOX



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

AS WIRED AS INSTALLED

DIAMONDBACK SIGNAL

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

SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		APPROVED BY:	DRAWN BY: DBS
SCALE: NONE	DATE: 03/04/2022		REVISED:
BOTTLE DRIVE - DOT # 908 949M - M.P. 0.70 PAXINOS, NORTHUMBERLAND COUNTY, PA			DRAWING NUMBER
CIRCUIT PLAN "D"			0.70

