

WEST

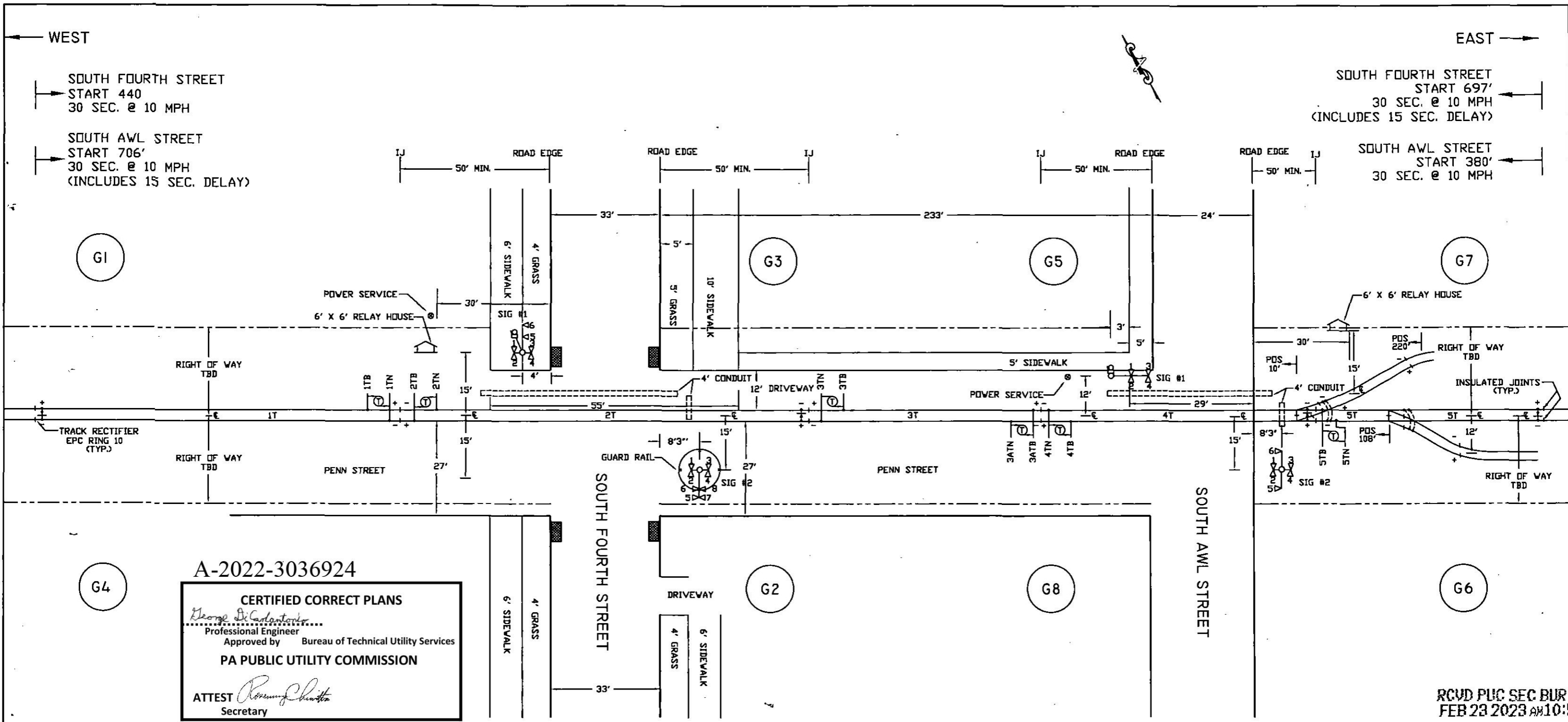
EAST

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



A-2022-3036924

**CERTIFIED CORRECT PLANS**

*George DiCarantonio*  
Professional Engineer  
Approved by Bureau of Technical Utility Services

**PA PUBLIC UTILITY COMMISSION**

ATTEST *Rosemary Christa*  
Secretary

RCVD PLC SEC BUR  
FEB 23 2023 AM 10:52

NOTES:

- MATERIAL & INSTALLATION TO BE IN ACCORDANCE WITH MUTCD, STATE AND RAILROAD STANDARDS.
- ALL DIMENSIONS ARE APPROXIMATE AND MAY VARY DUE TO ACTUAL FIELD CONDITIONS.
- FLASHLIGHT SIGNALS & GATE LIGHTS TO BE LIGHT EMITTING DIODE ASSEMBLIES, (LED).
- BEWARE OF OVERHEAD WIRES WHEN SITING SIGNAL.
- ⊕ 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

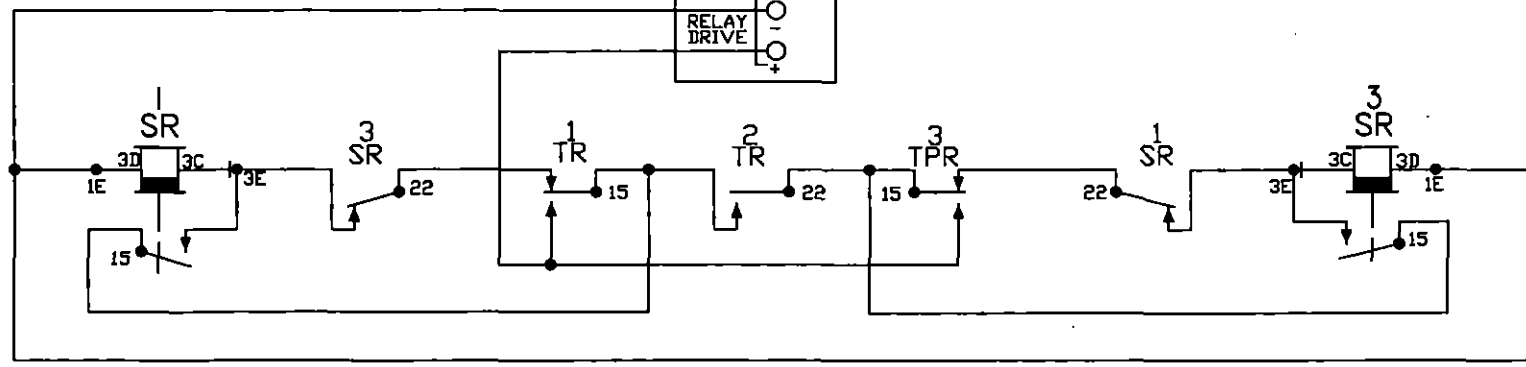
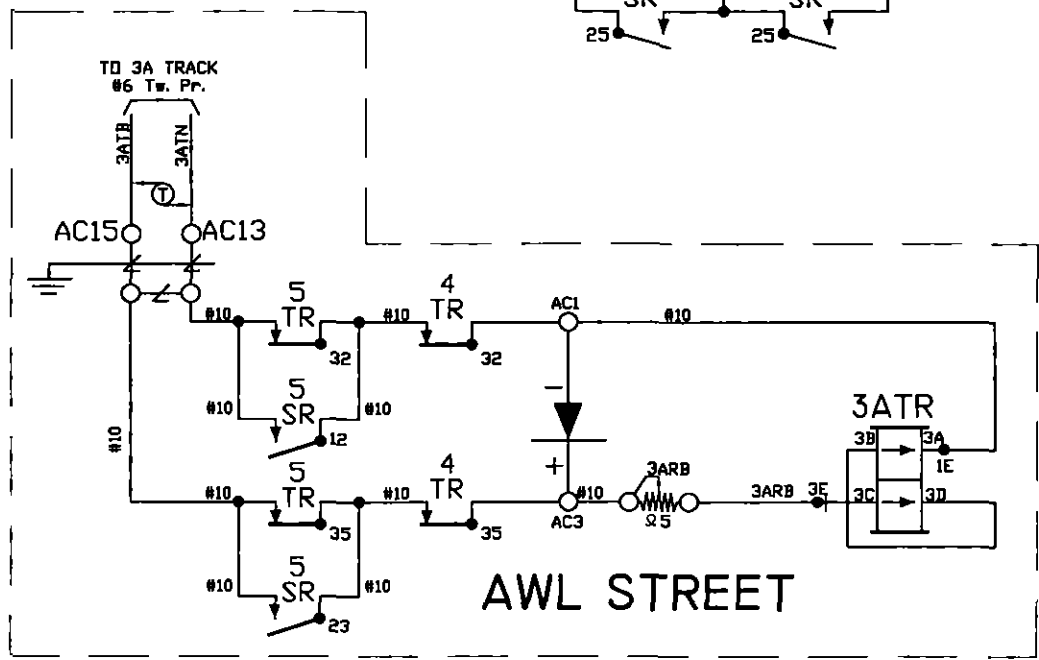
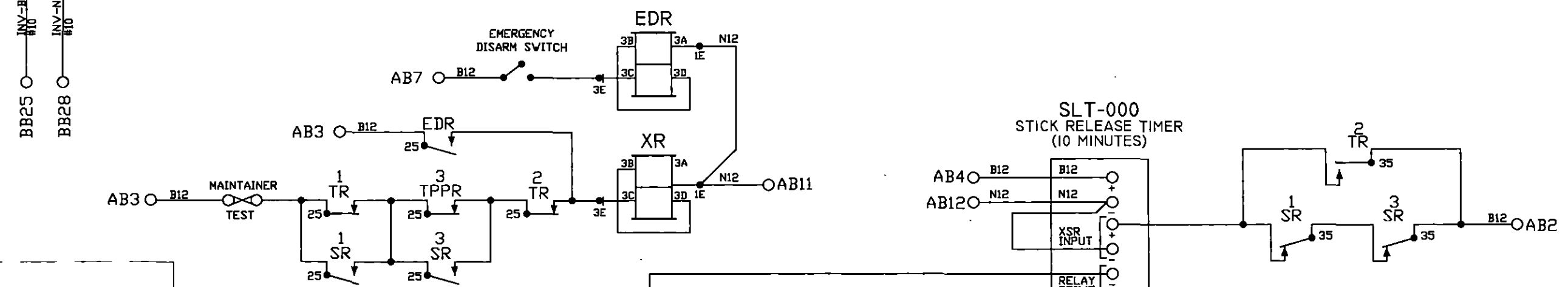
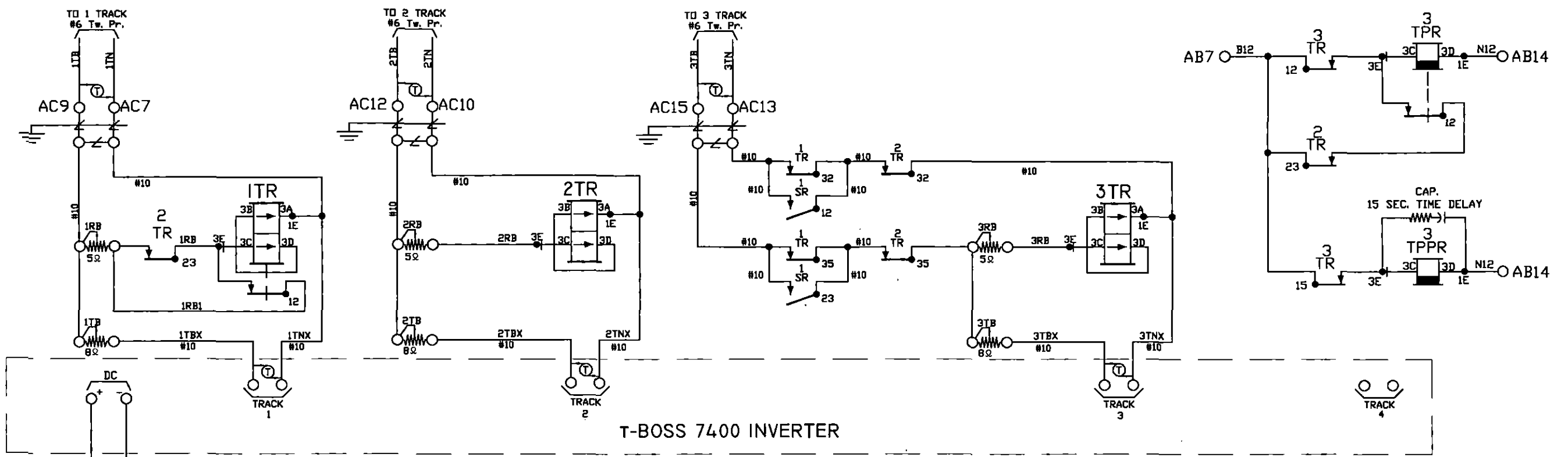
SOUTH AWL STREET  
CABLE RUN TABULATION

- HOUSE TO SIGNAL #1 - 5/C #6 UG CABLE
- 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 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

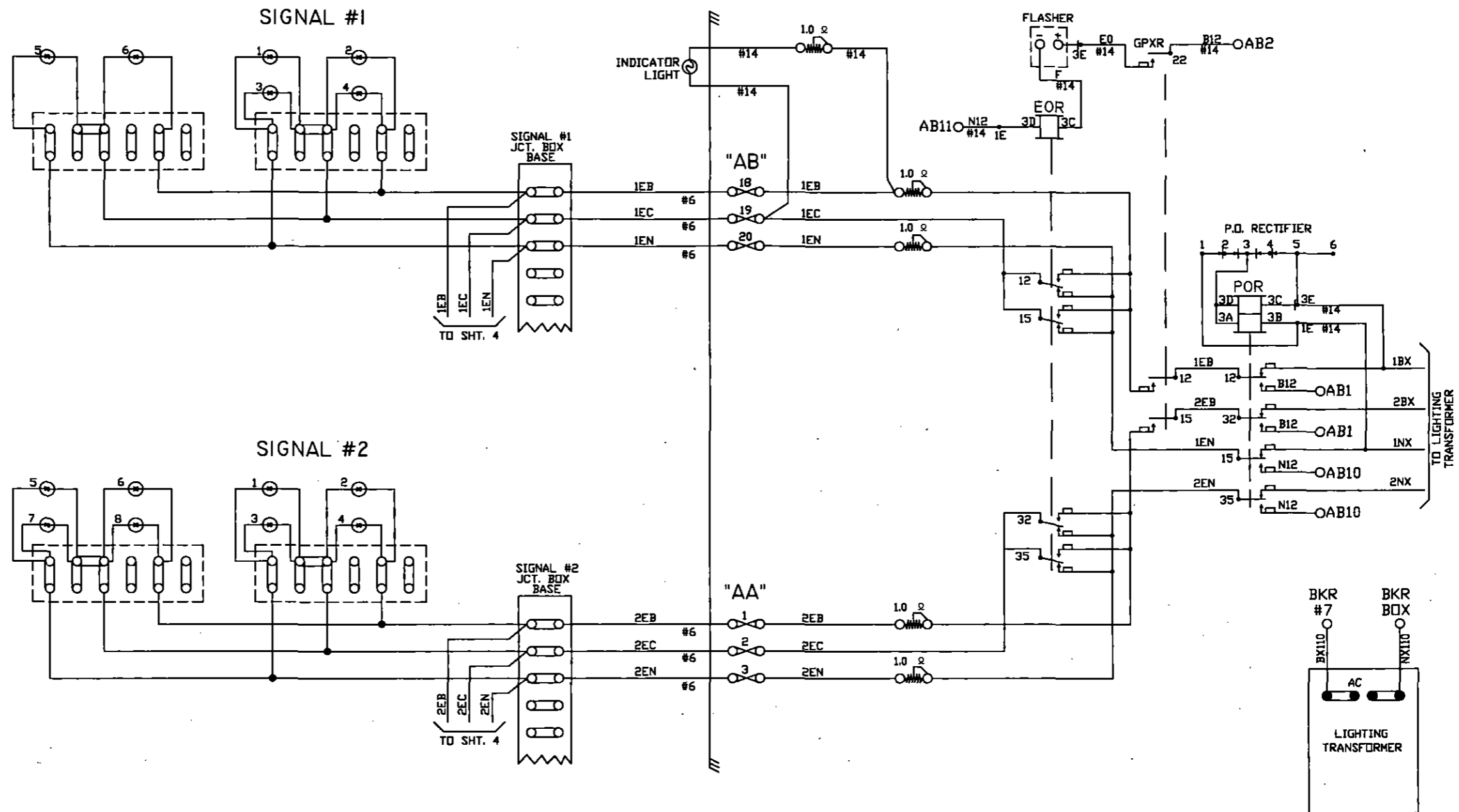
AS WIRED		AS INSTALLED	
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 02/21/2022		REVISED:	
SOUTH FOURTH STREET DOT # 591 735M - M.P. 0.49 SUNBURY, NORTHUMBERLAND COUNTY, PA			
TRACK & CABLE PLAN			DRAWING NUMBER 0.49



- 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

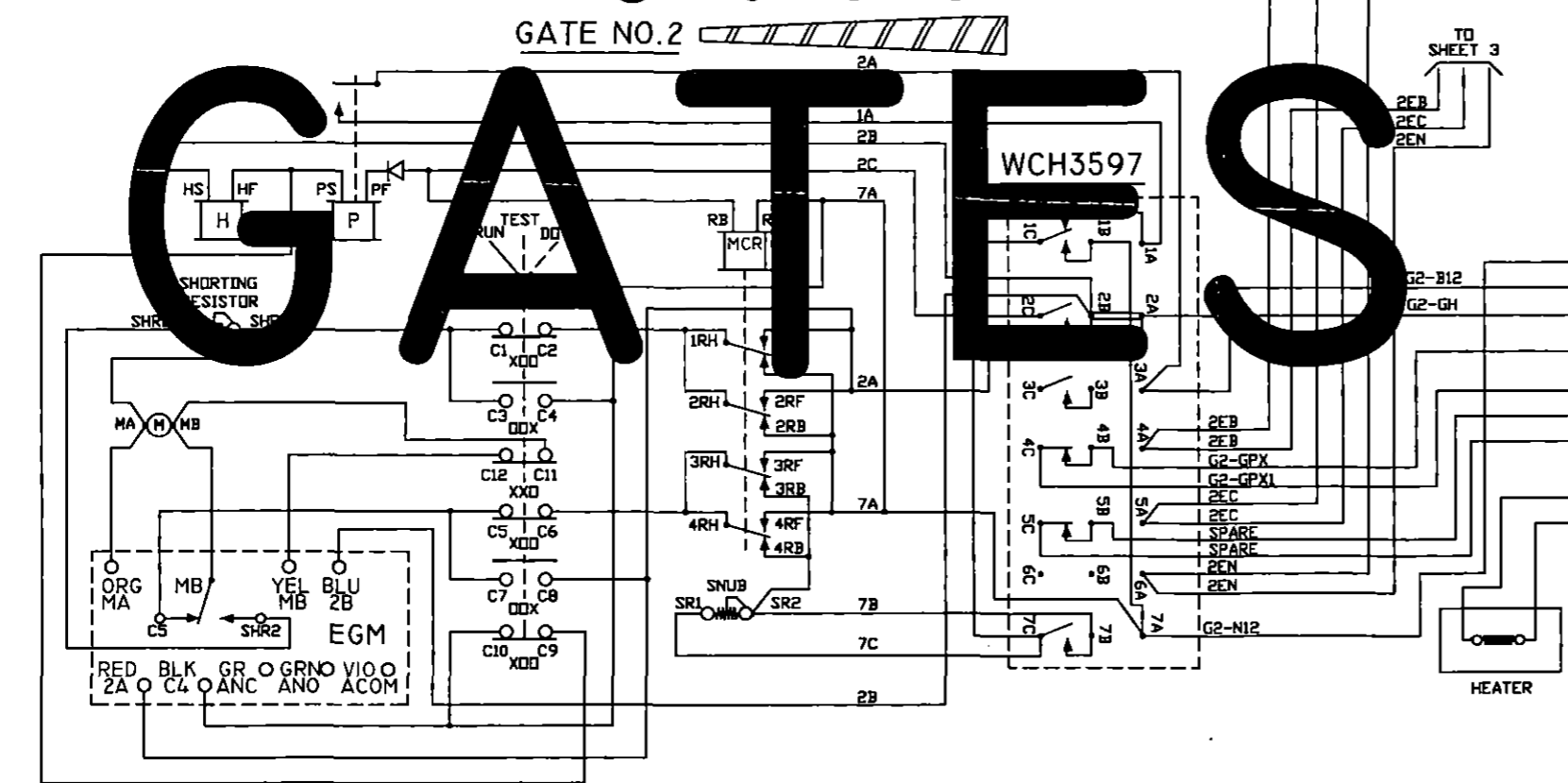
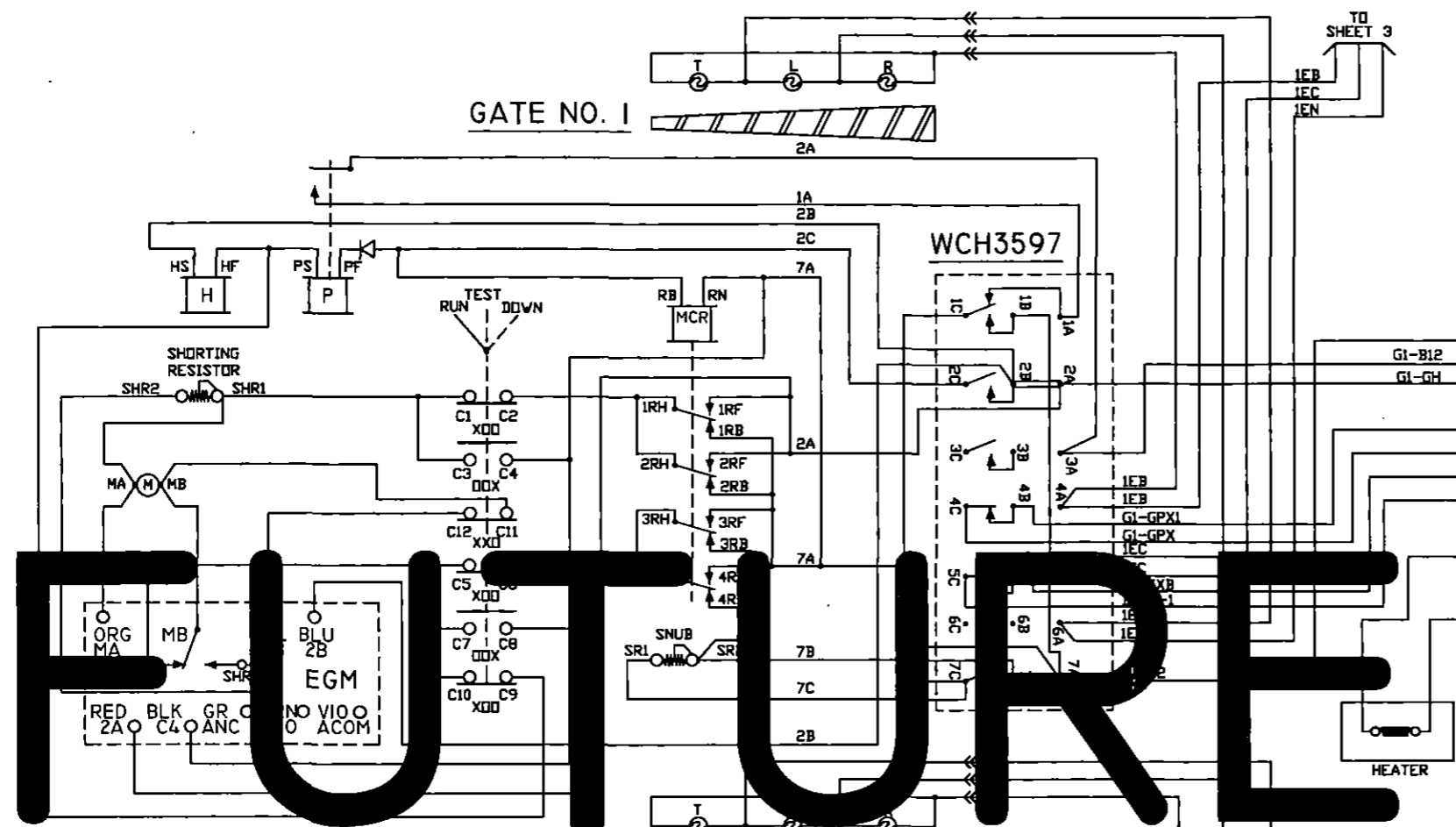
AS WIRED		AS INSTALLED	
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 02/21/2022		REVISED:	
SOUTH FOURTH STREET DOT # 591 735M - M.P. 0.49 SUNBURY, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN 'A'			DRAWING NUMBER 0.49



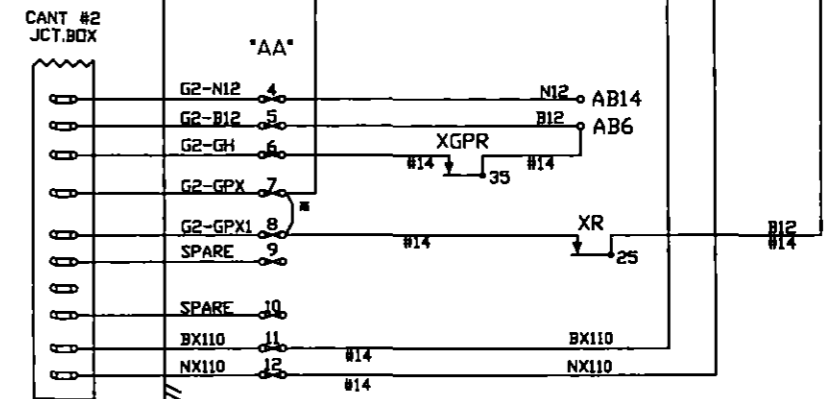
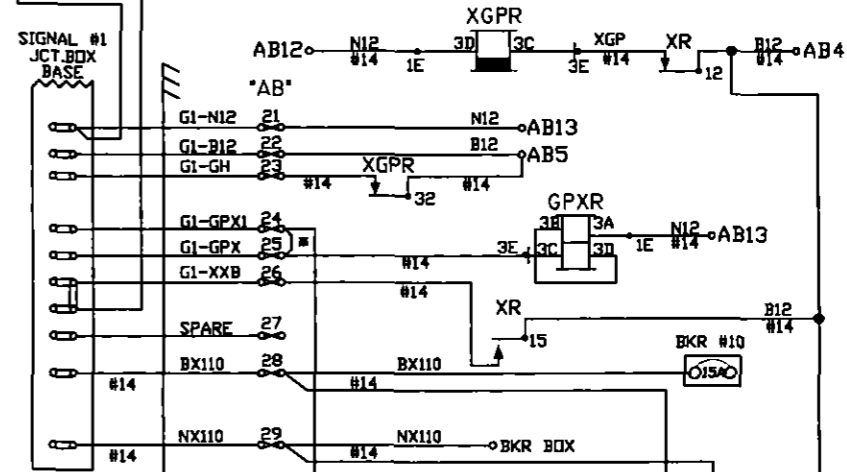
NOTE:  
ALL WIRE THIS SHEET IS #10 AWG. FLEX  
UNLESS OTHERWISE NOTED.

**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



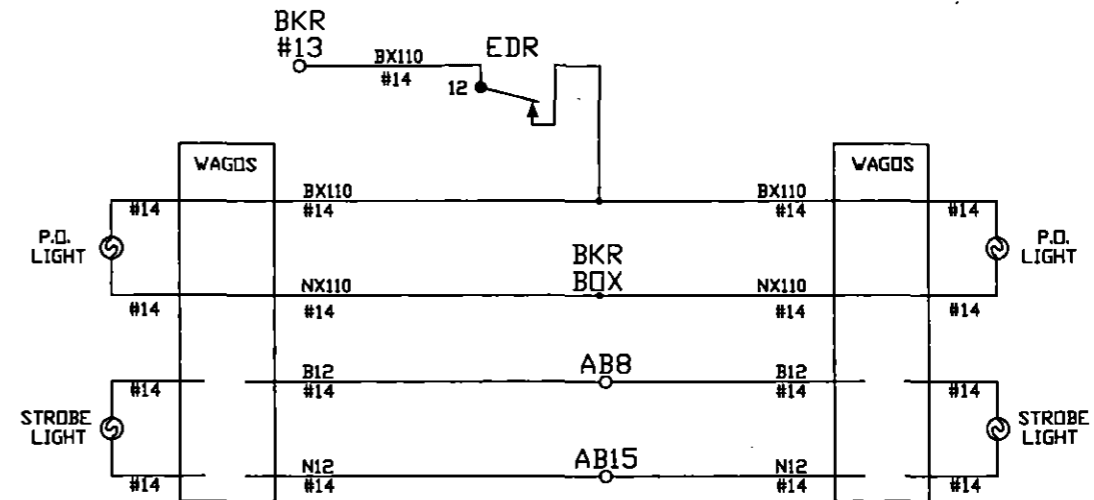
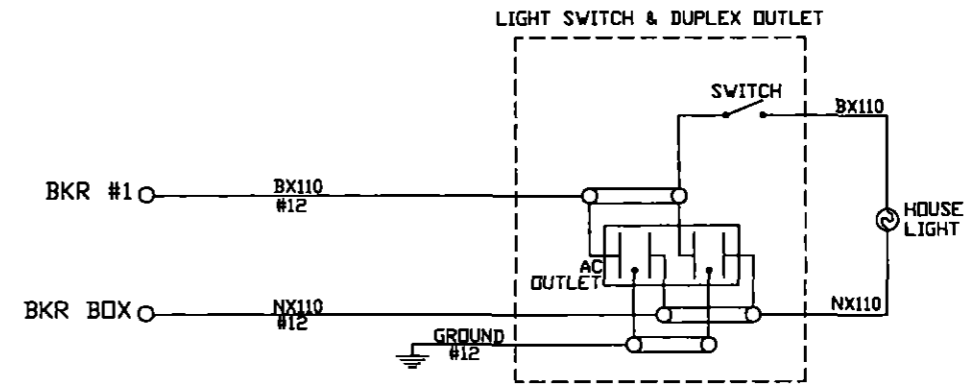
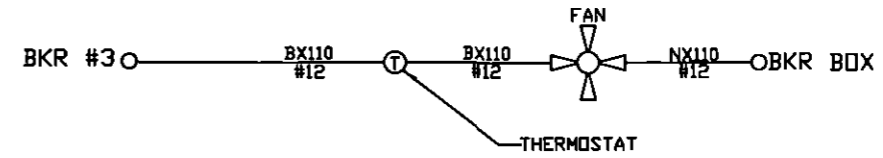
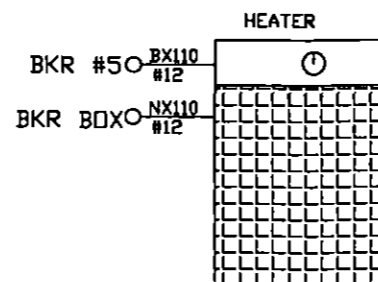
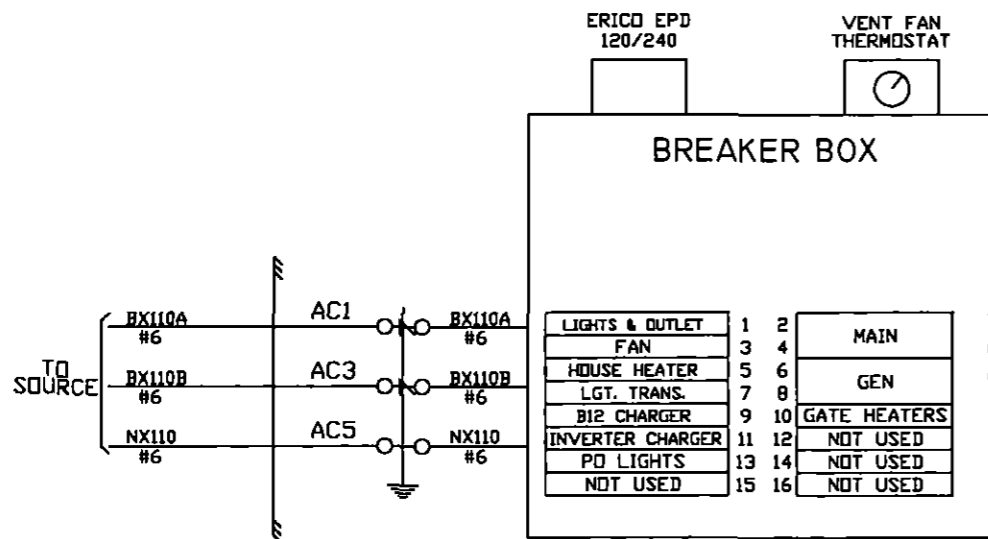
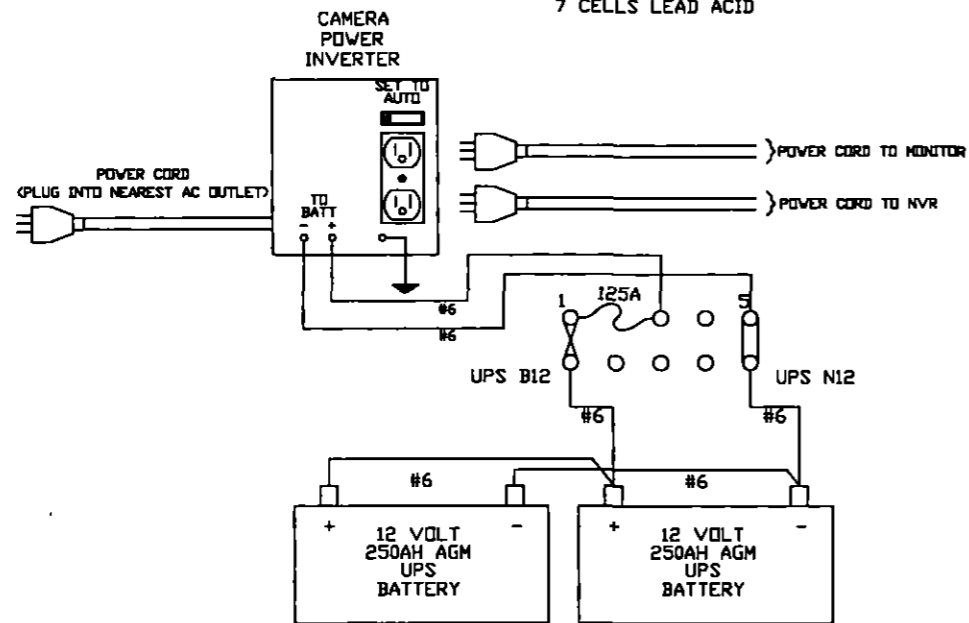
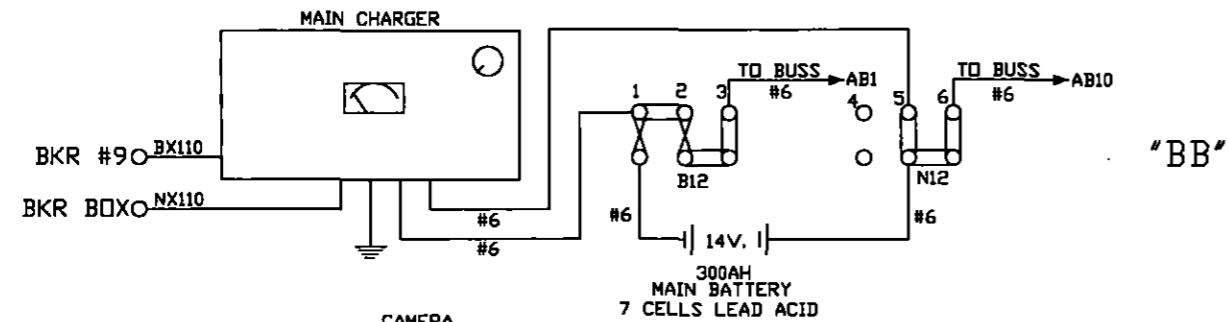
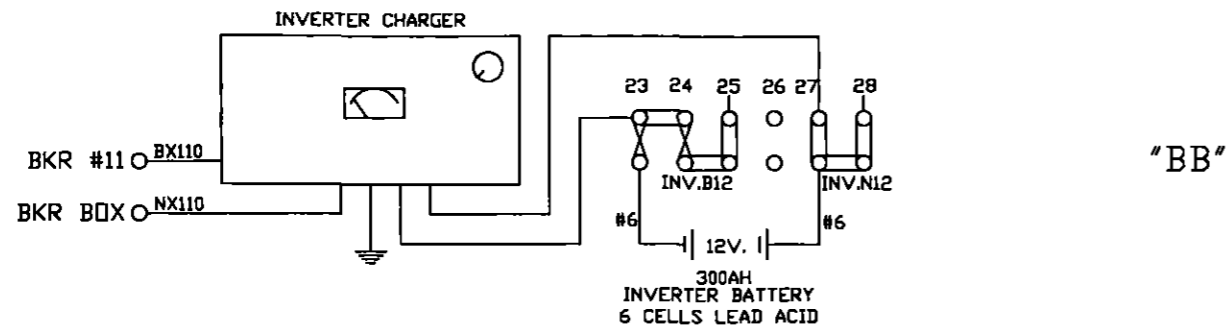
CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.



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

FUTURE  
GATES

<b>DIAMONDBACK SIGNAL</b> (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:  
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UNLESS OTHERWISE NOTED.

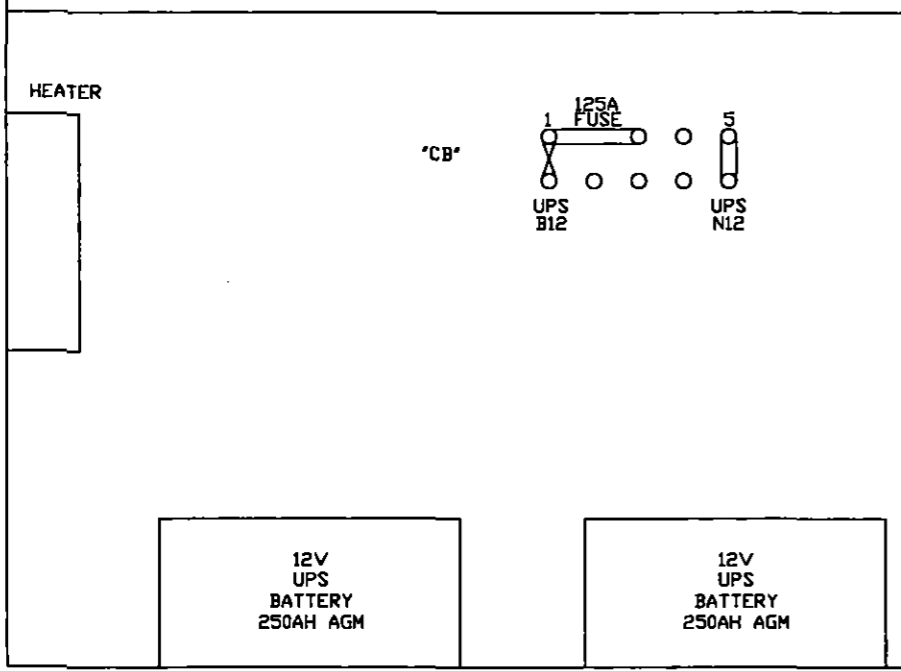
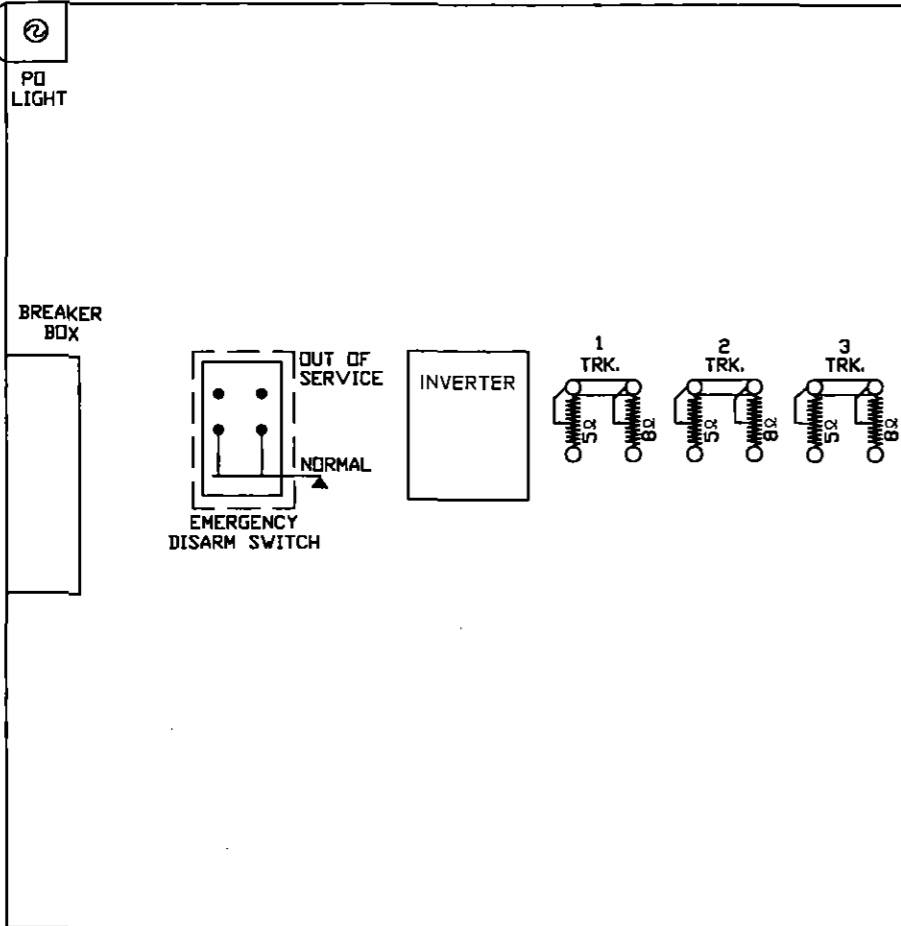
<b>DIAMONDBACK SIGNAL</b> (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 02/21/2022	REVISED:	
SOUTH FOURTH STREET DOT # 591 735M - M.P. 0.49 SUNBURY,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

SIDE "C"

SIDE "A"

SIDE "B"

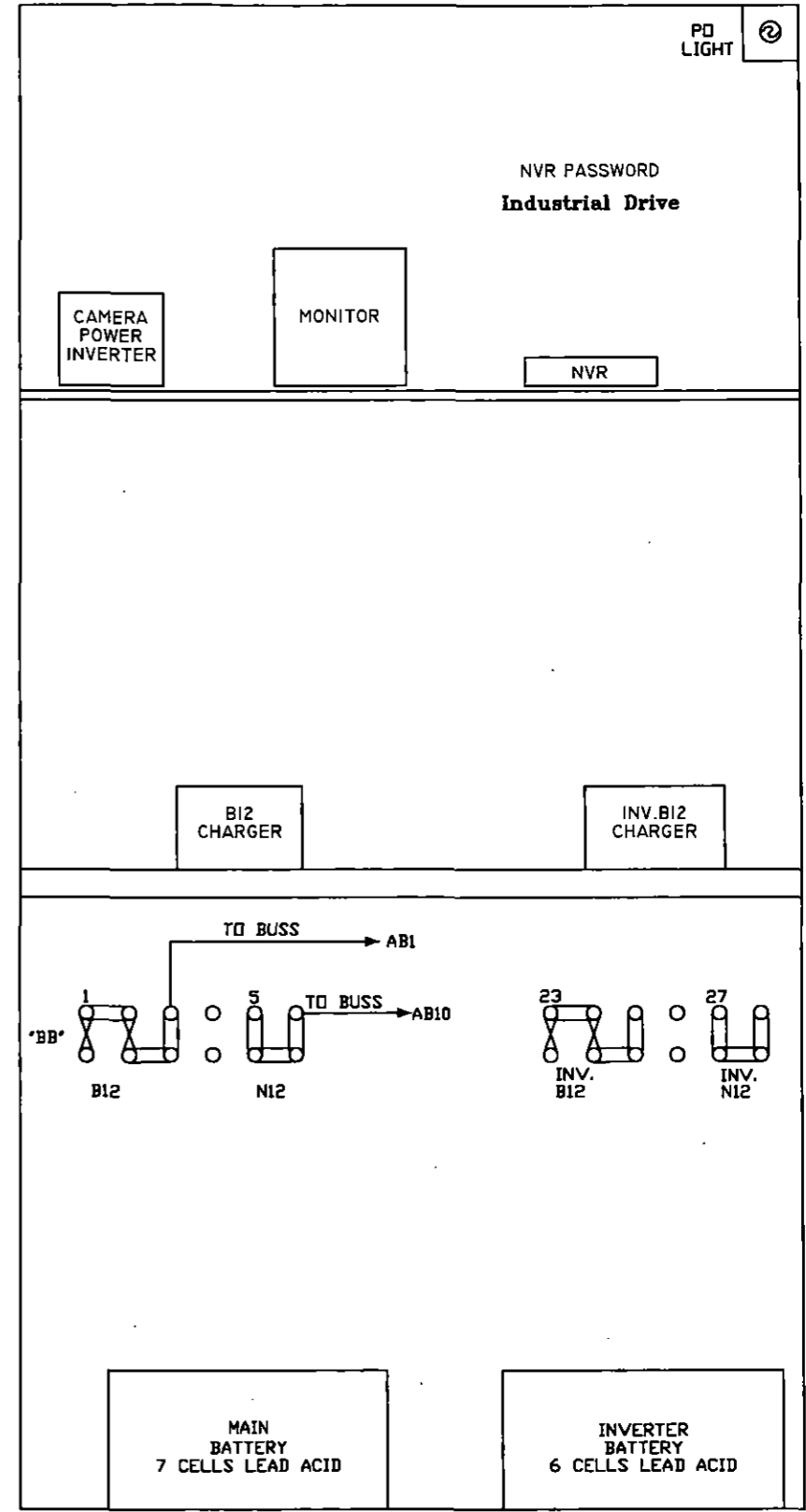
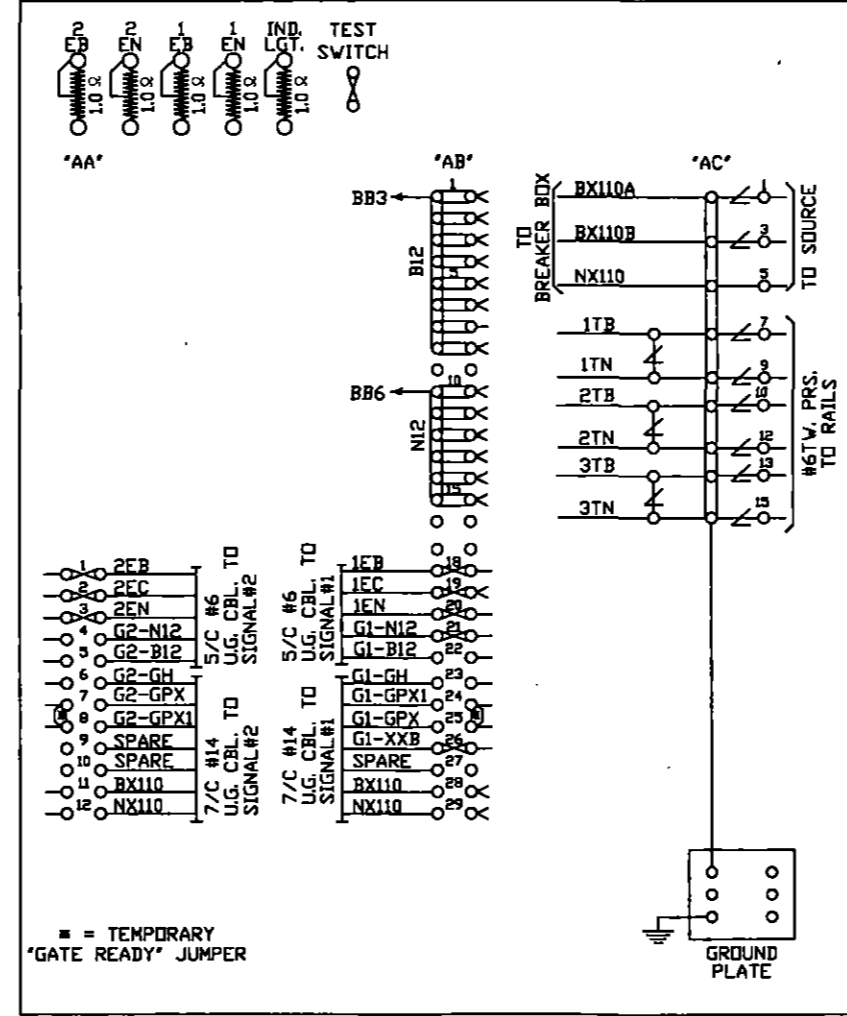
PD LIGHT



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

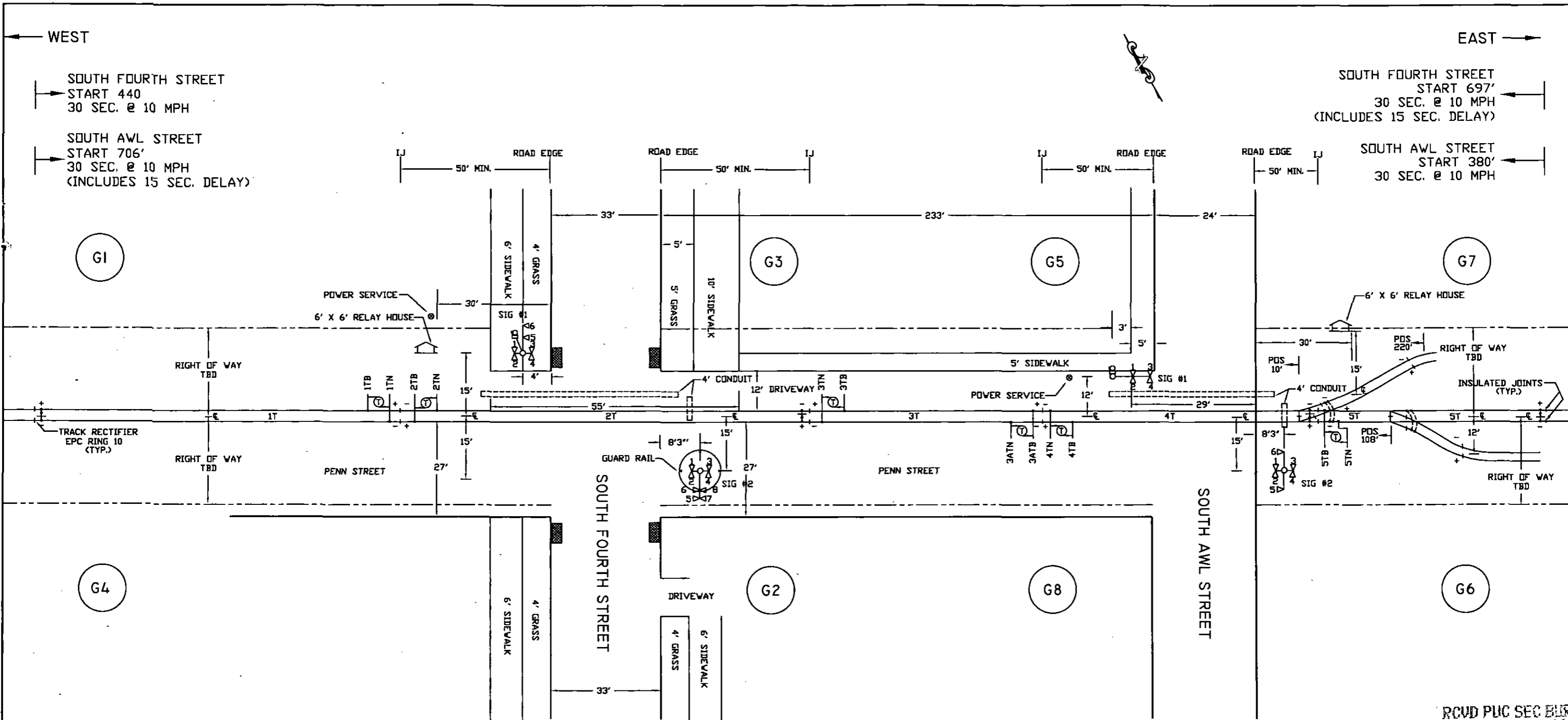
EAST

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
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- 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

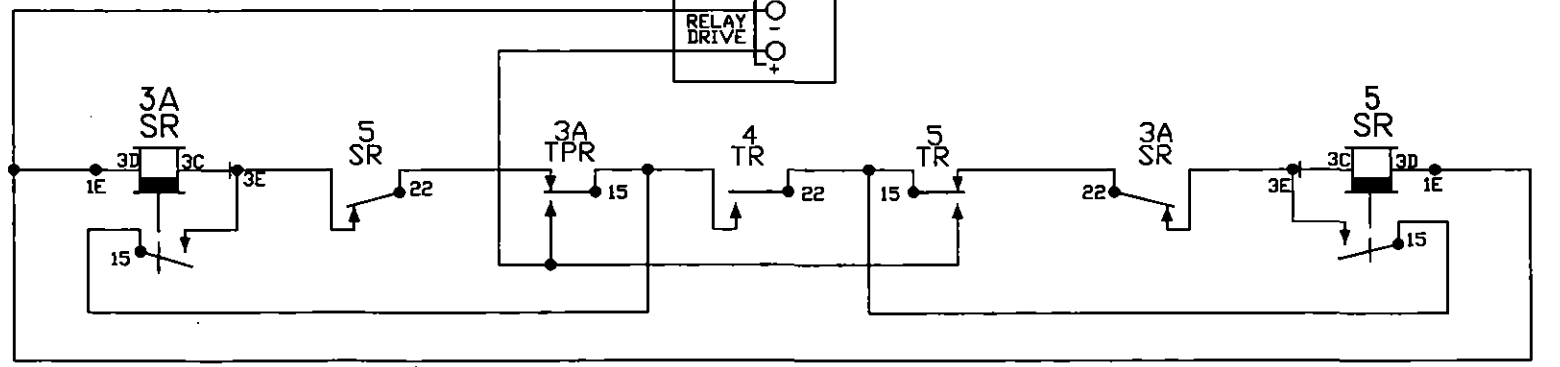
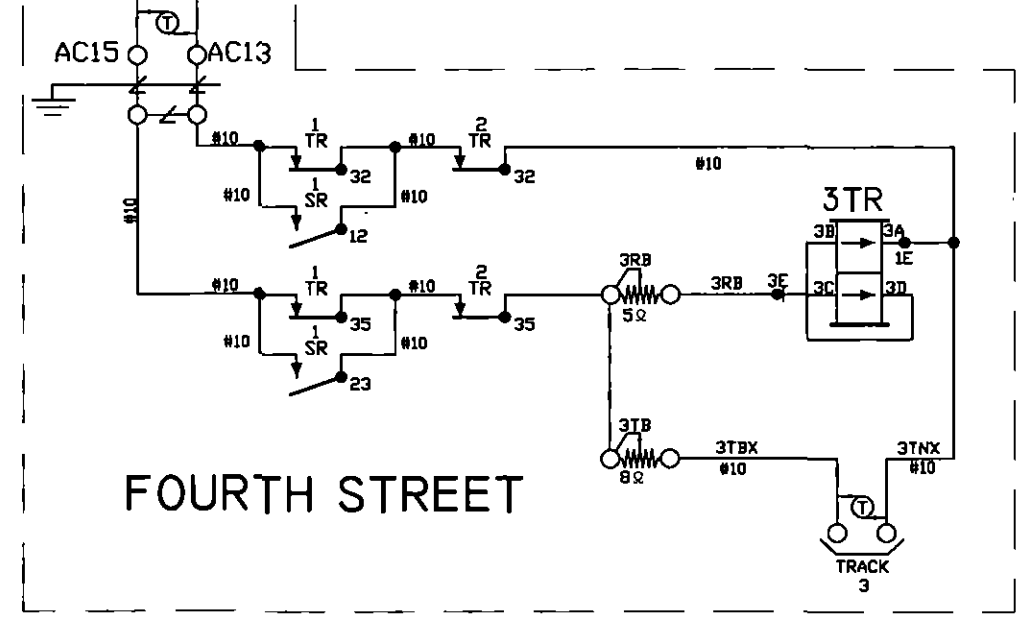
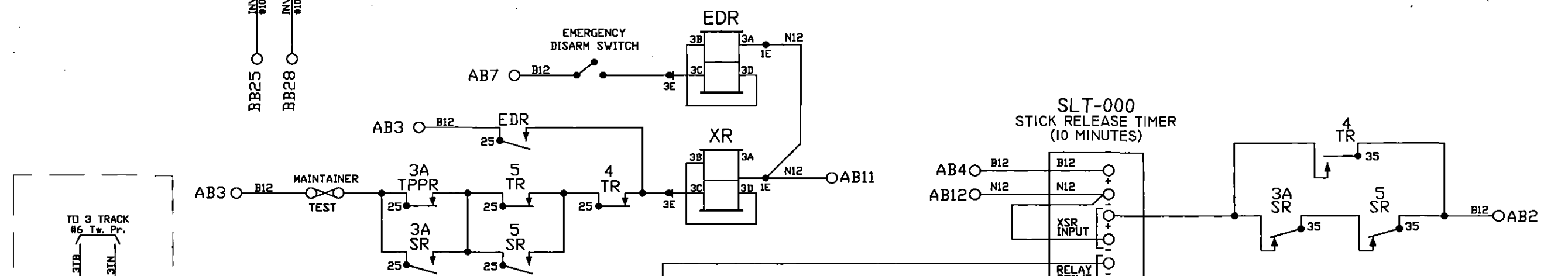
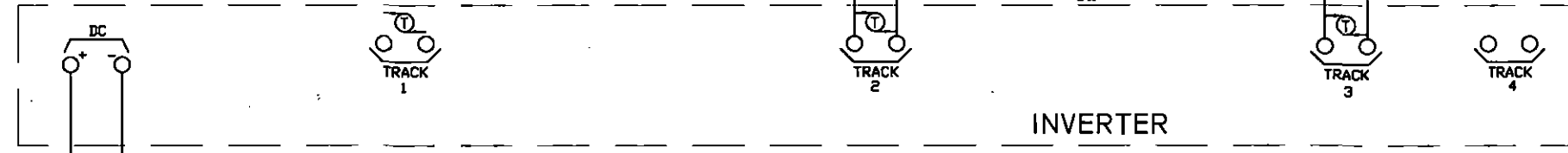
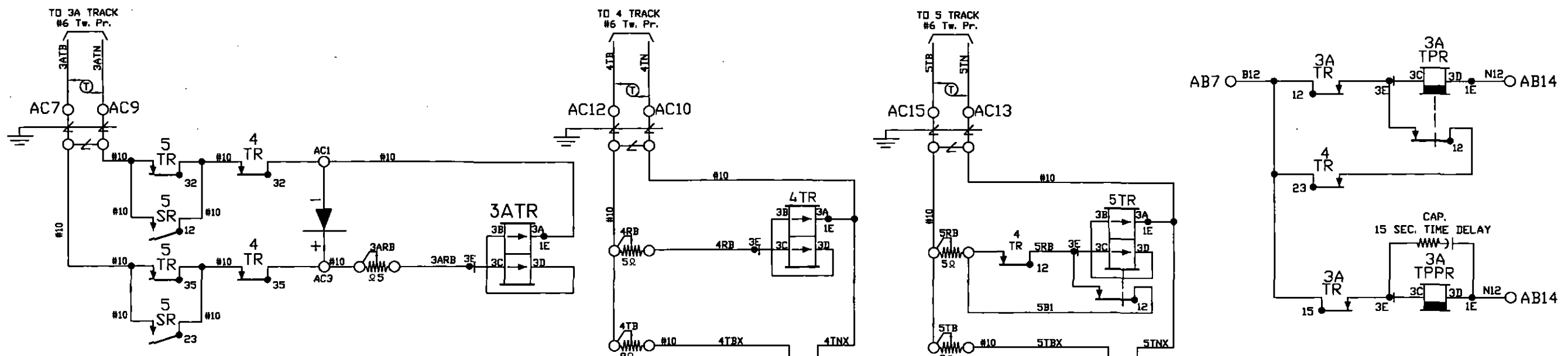
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- HOUSE TO SIGNAL #1 - 7/C #14 UG CABLE
- HOUSE TO SIGNAL #2 - 5/C #6 UG CABLE
- HOUSE TO SIGNAL #2 - 7/C #14 UG CABLE
- HOUSE TO AC SERVICE - 3/C #9 UG CABLE
- HOUSE TO 3ATN & 3ATB - 2/C #6 TWISTED PAIR
- HOUSE TO 4TN & 4TB - 2/C #6 TWISTED PAIR
-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

ROAD PUC SEC BUR  
FEB 23 2023 AM 10:35

DIAMONDBACK  
SIGNAL

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

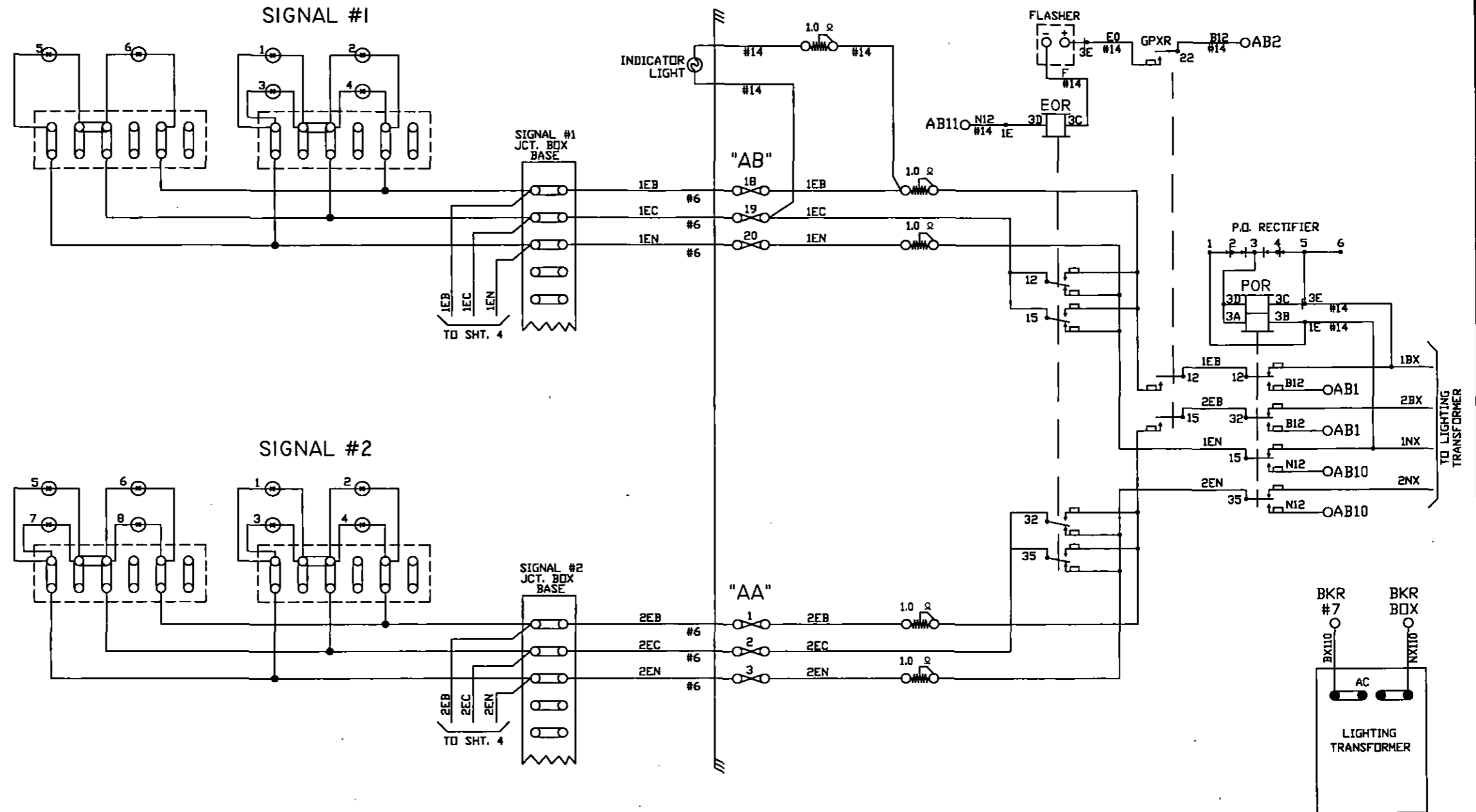
AS WIRED		AS INSTALLED	
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 02/21/2022		REVISED:	
SOUTH AWL STREET DOT # 591 734F - M.P. 0.54 SUNBURY, NORTHUMBERLAND COUNTY, PA			
TRACK & CABLE PLAN			DRAWING NUMBER 0.49



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

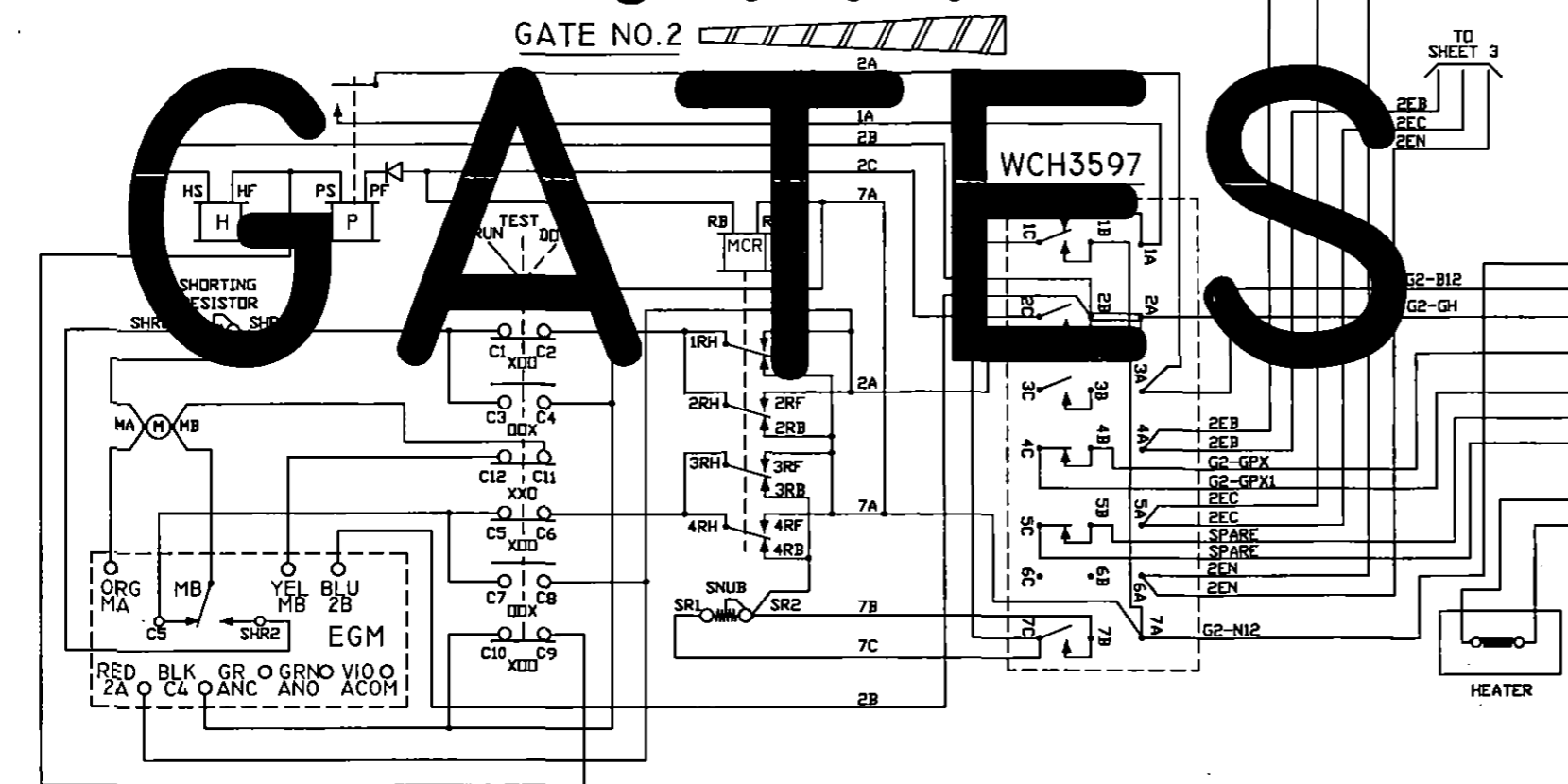
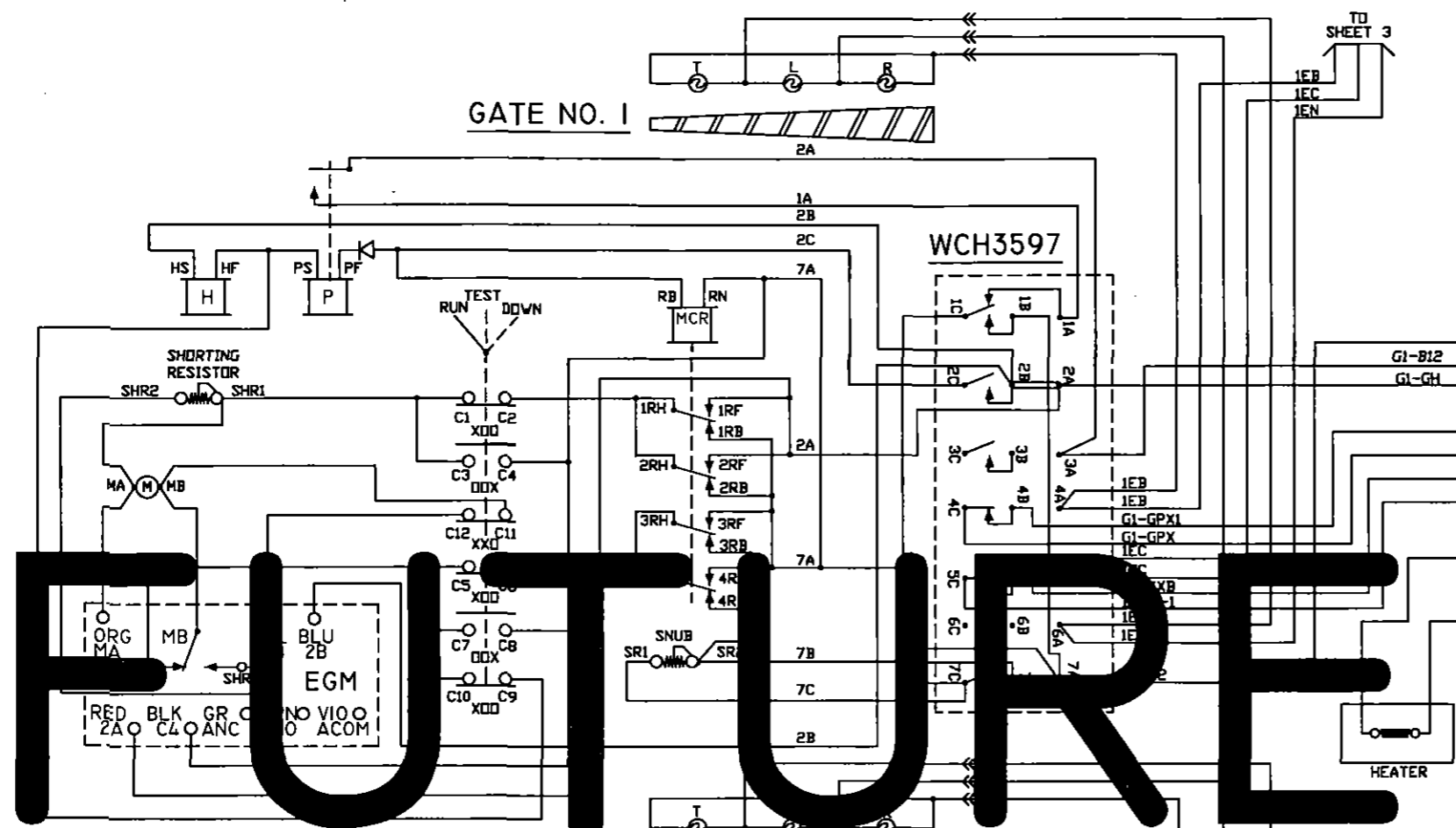
**DIAMONDBACK SIGNAL**  
 (410) 795-9601  
 5965 EXCHANGE DRIVE  
 SUITE 'D'  
 SYKESVILLE, MD 21784

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

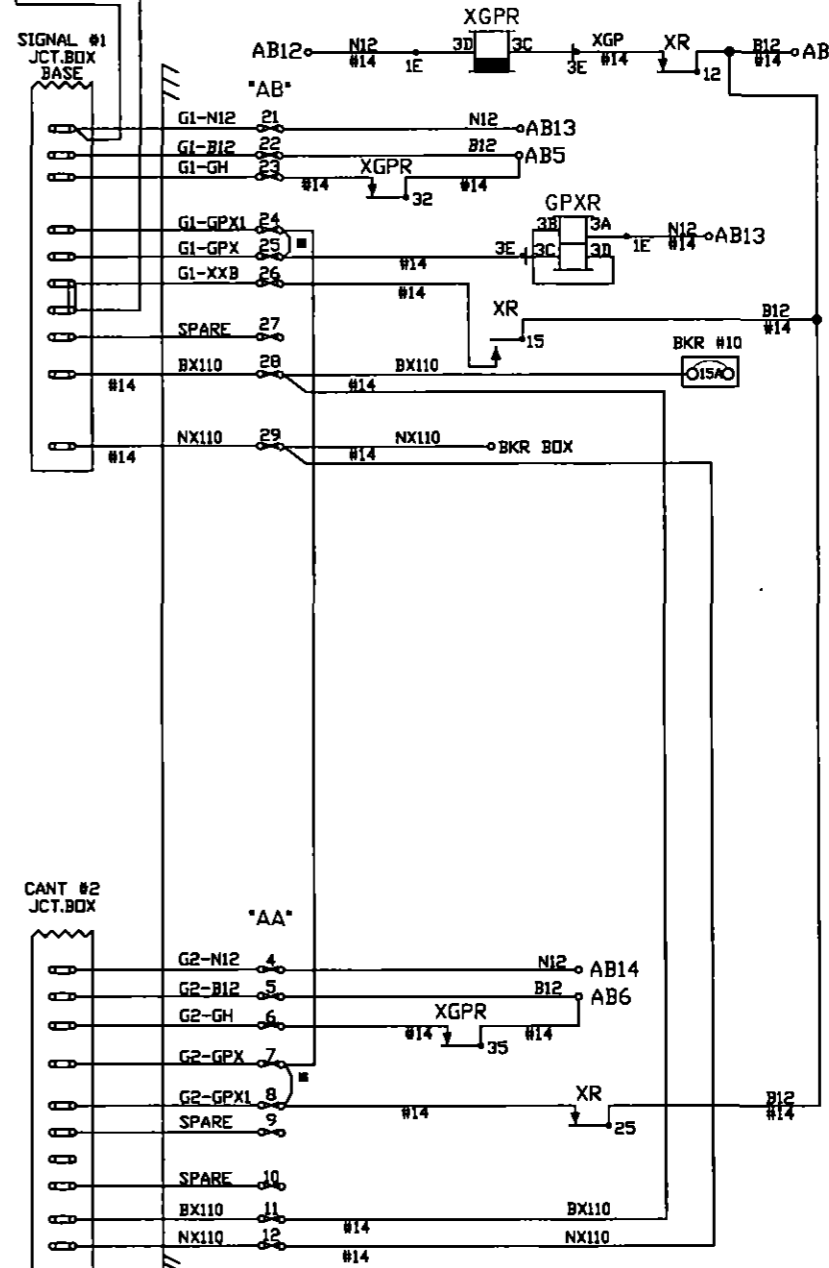


NOTE:  
ALL WIRE THIS SHEET IS #10 AWG. FLEX  
UNLESS OTHERWISE NOTED.

<b>DIAMONDBACK SIGNAL</b>  (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 "B"		DRAWING NUMBER 0.49	

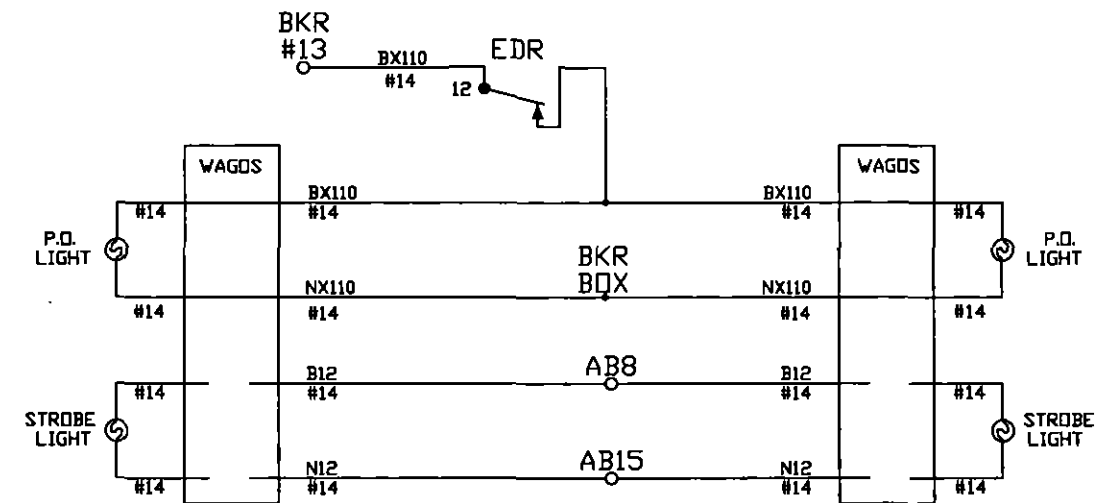
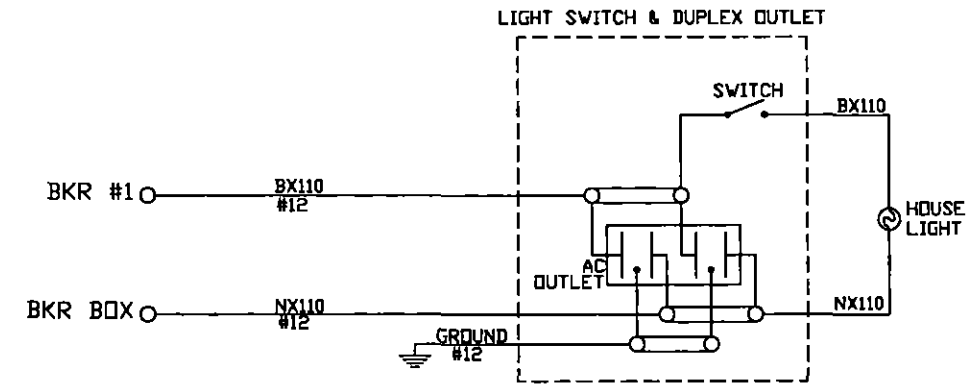
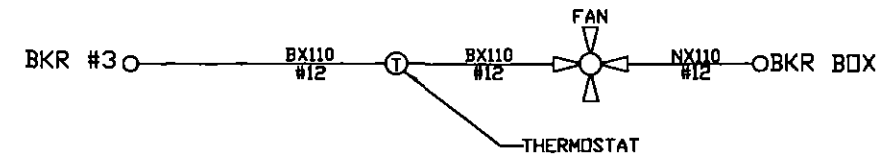
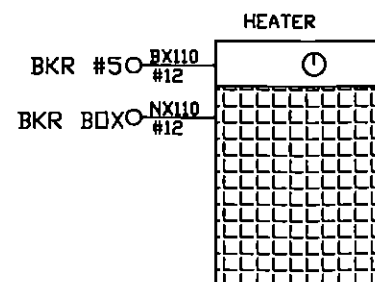
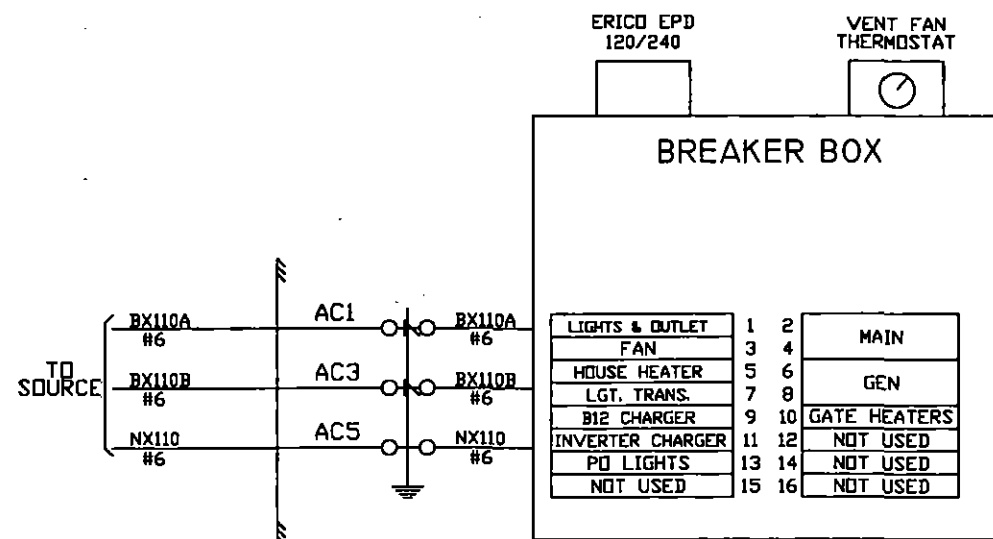
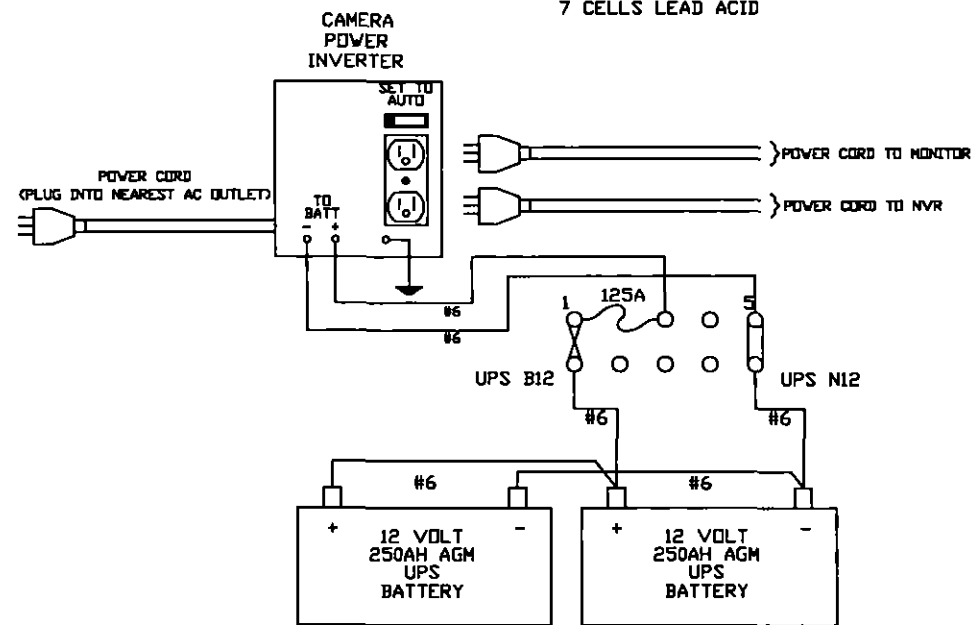
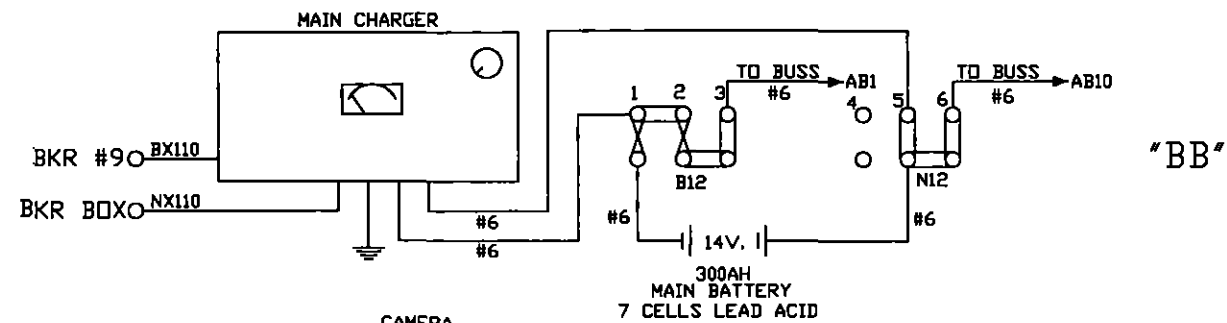
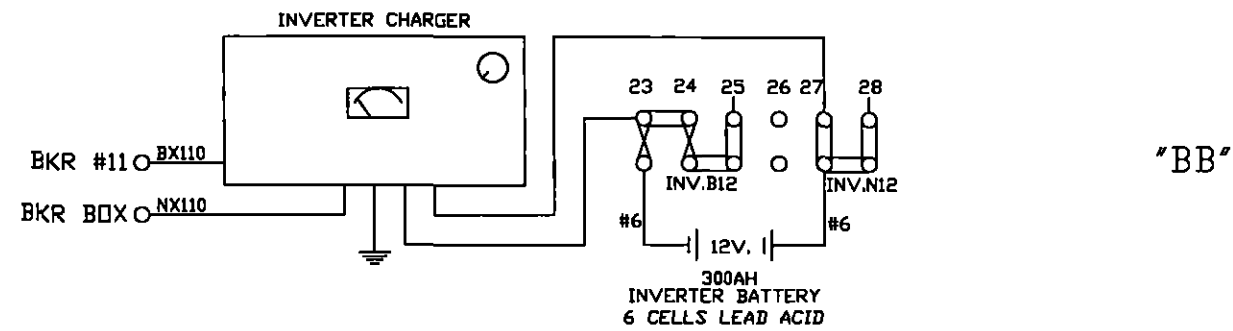


CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.



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

<b>DIAMONDBACK SIGNAL</b> (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED
	<b>SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES</b>	
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		
CIRCUIT PLAN 'C'		DRAWING NUMBER 0.49



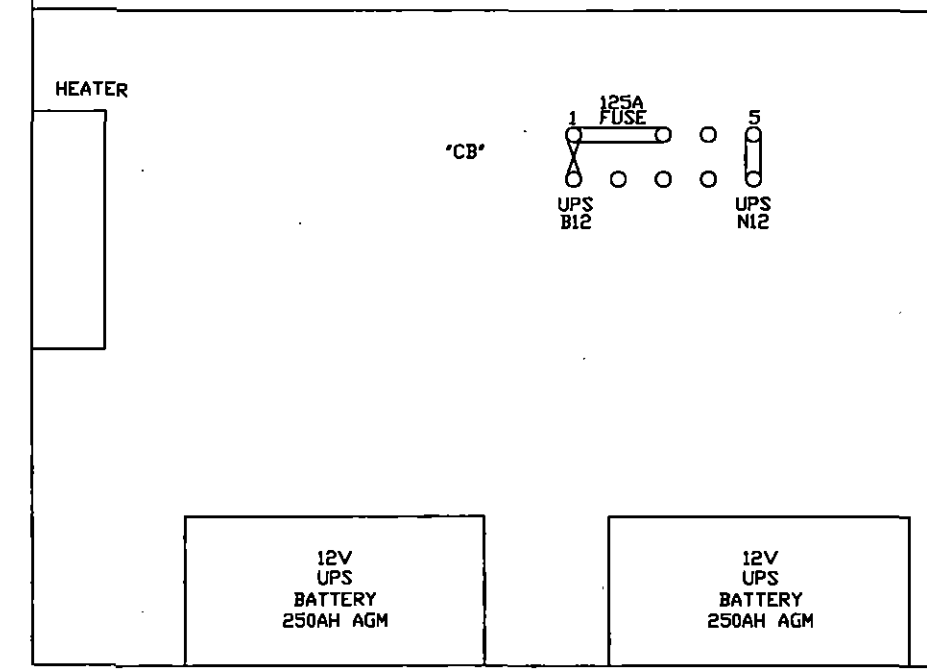
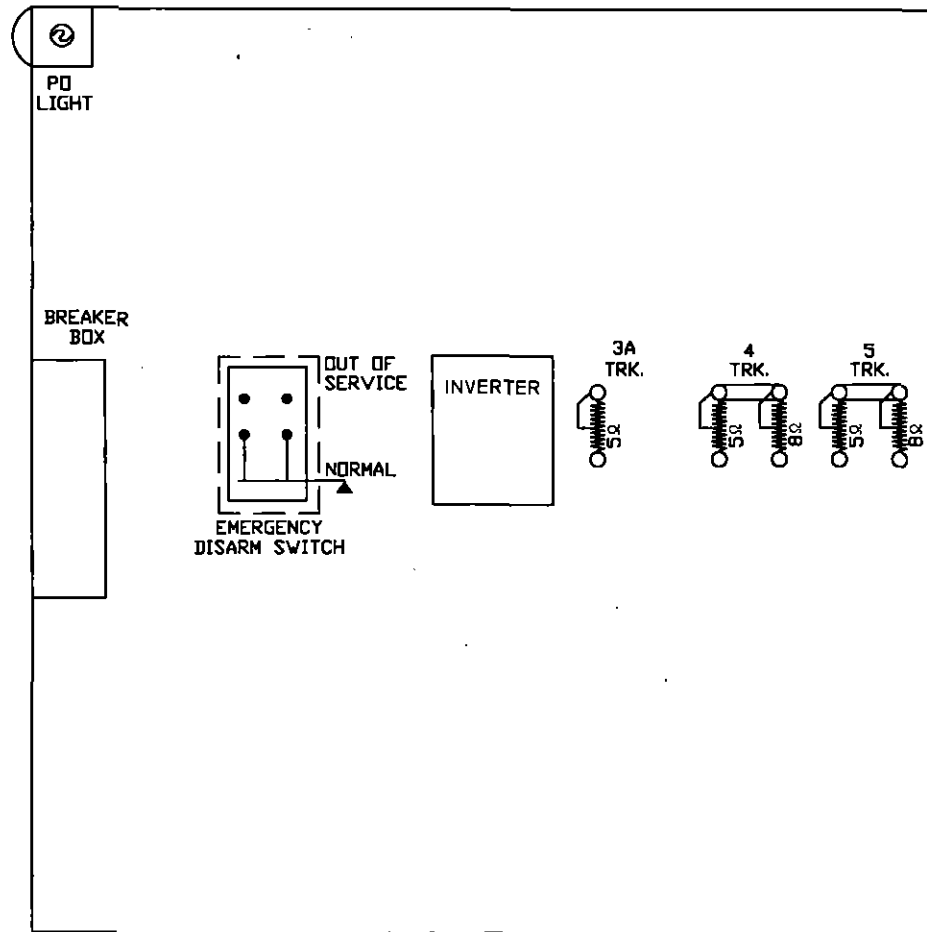
NOTE:  
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<b>DIAMONDBACK SIGNAL</b> (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 02/21/2022		REVISED: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

SIDE "C"

SIDE "A"

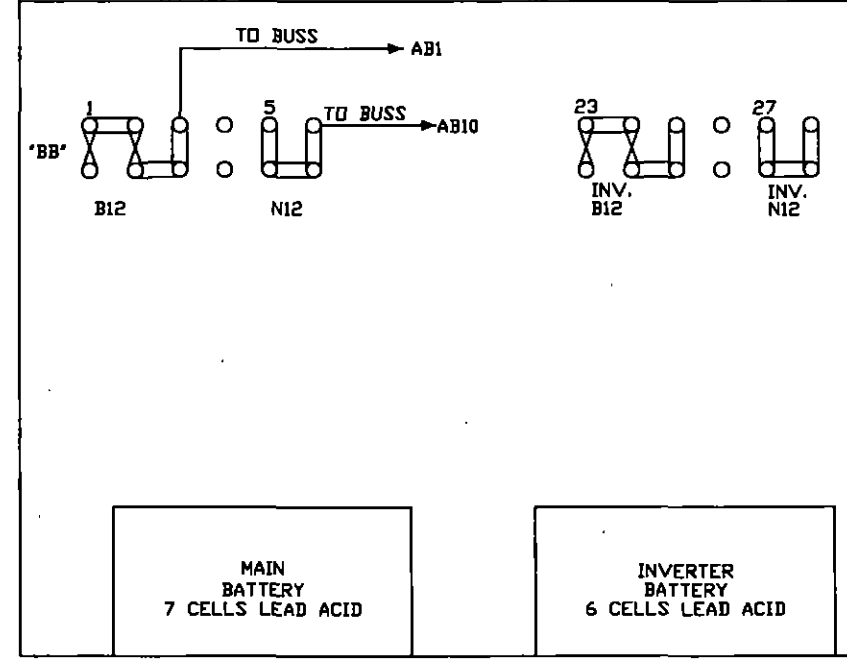
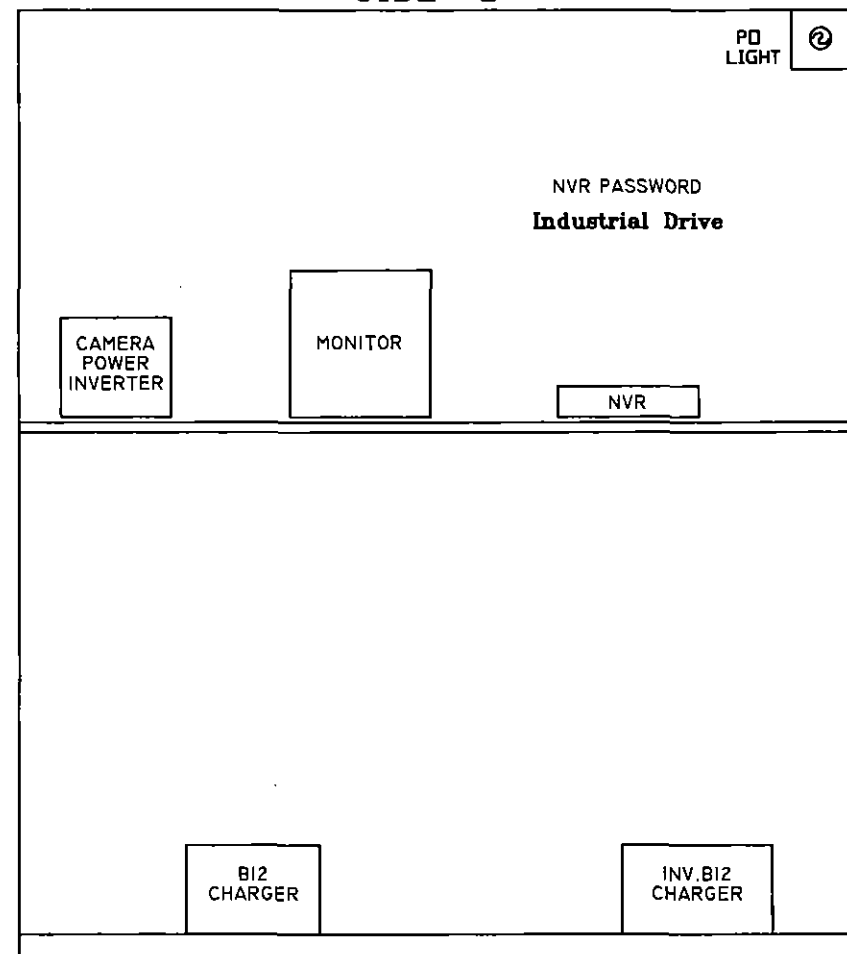
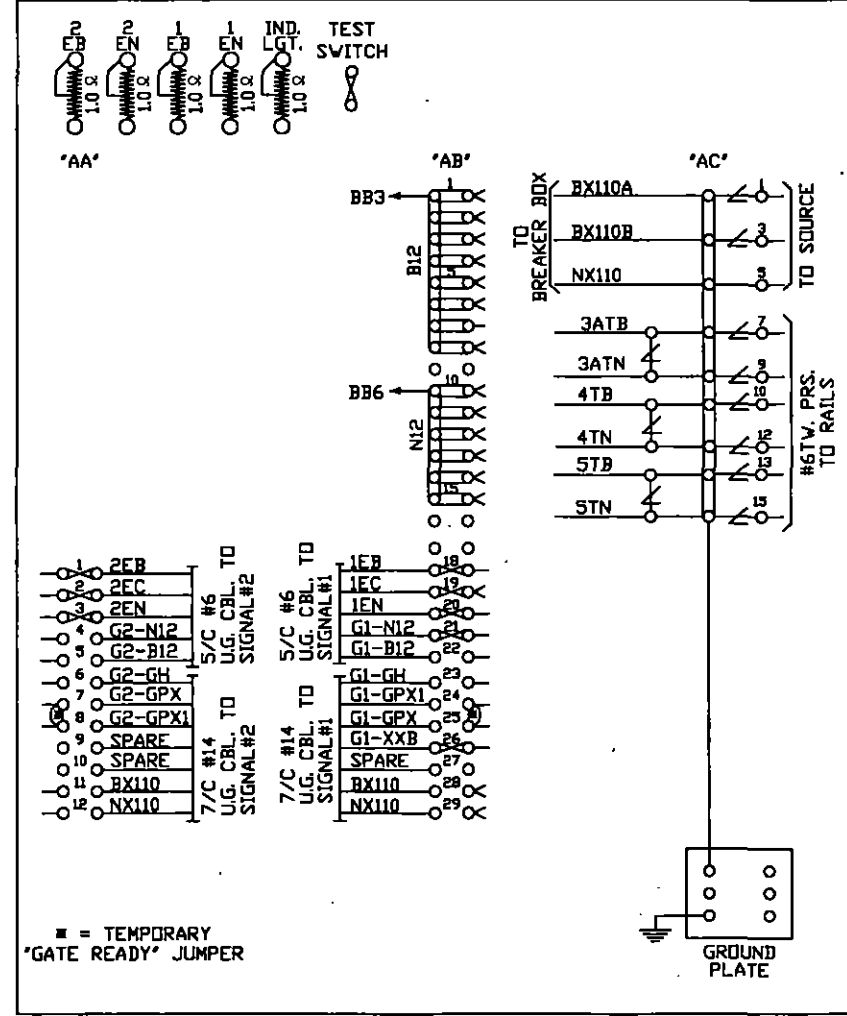
SIDE "B"



LIGHT TRANS.	POR	EOR	GPXR	XR	XGPR	EDR
	12 FB	12 FB	12 B	12 F	12	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	12 F	12	12	12 F	12 F	
15	F	15 FB	15 F	15	15 FB	15 F	
22	B	22	22 B	22 B	22 B	22 B	
23	B	23	23 B	23 F	23	23 B	
25	F	25 F	25 F	25 F	25 F	25 F	
32		32	32	32	32	32	
35	B	35 B	35 B	35 B	35	35 B	
	A62-357	A62-120	A62-357	A62-357	A62-120	A62-120	A62-357
	400211	400510	400211	400510	400510	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 AWL STREET  
DOT # 591 734F - M.P. 0.54  
SUNBURY, NORTHUMBERLAND COUNTY, PA

RELAY HOUSE LAYOUT DRAWING NUMBER 0.49

WEST

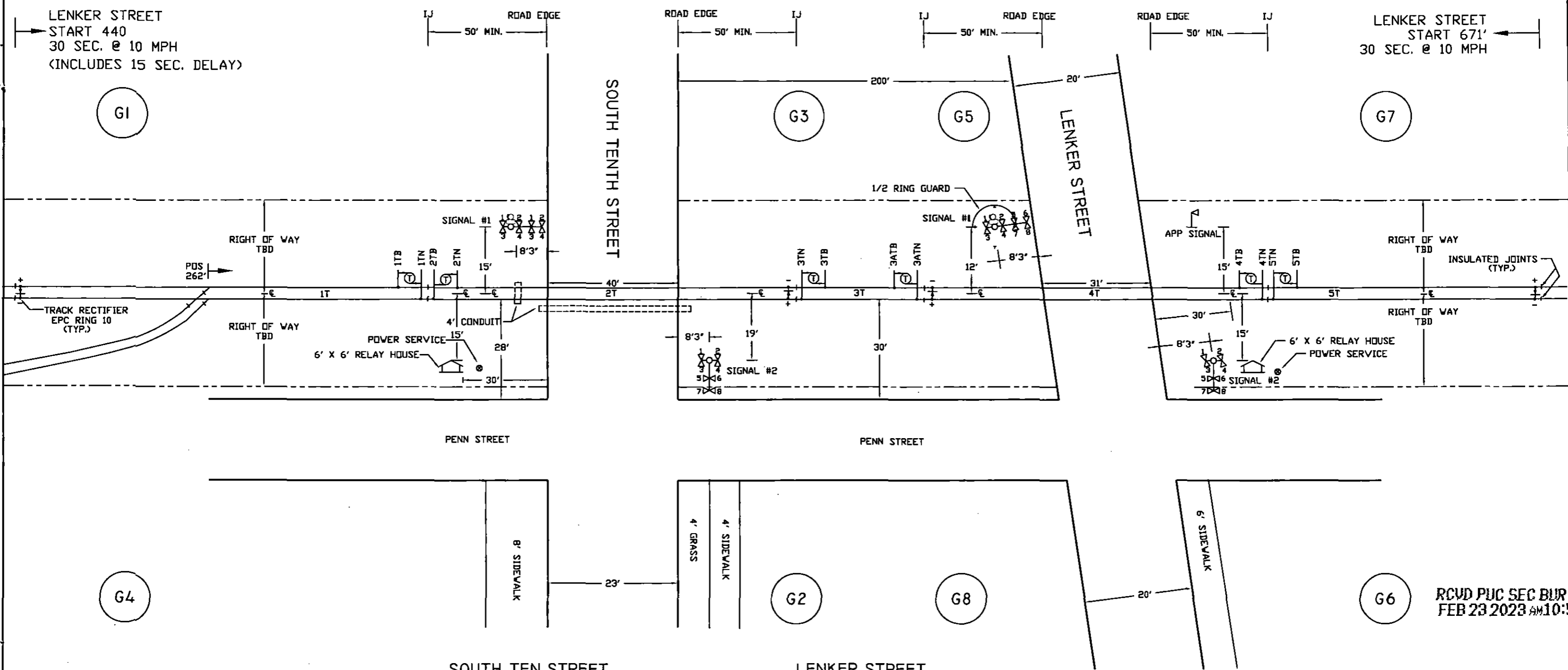
EAST

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

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

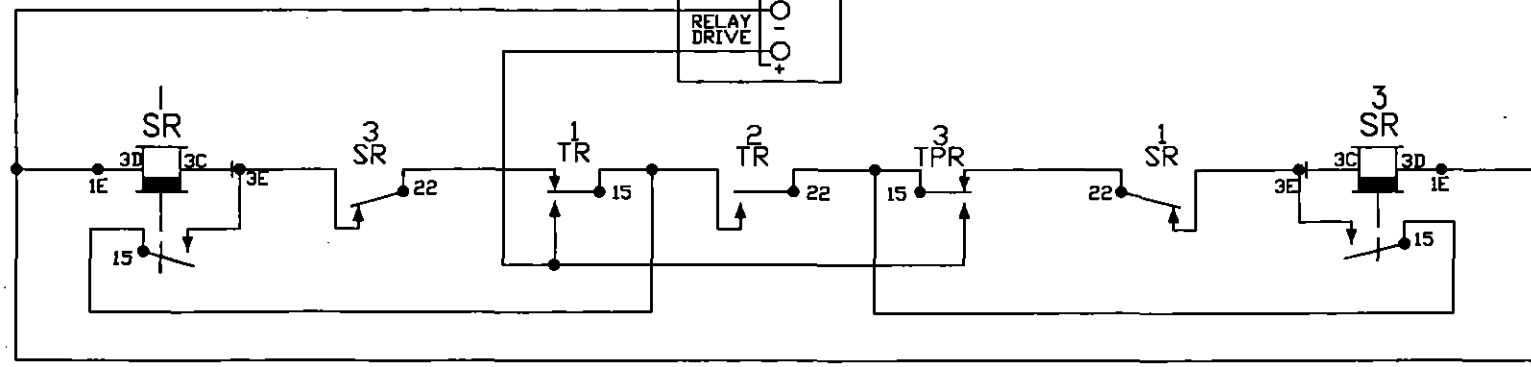
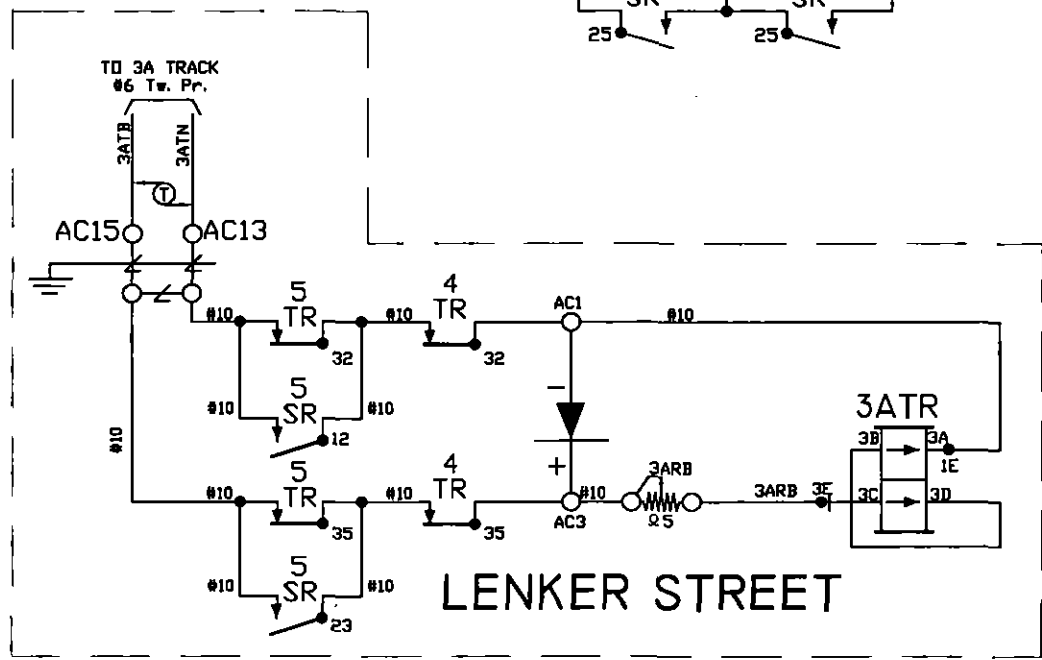
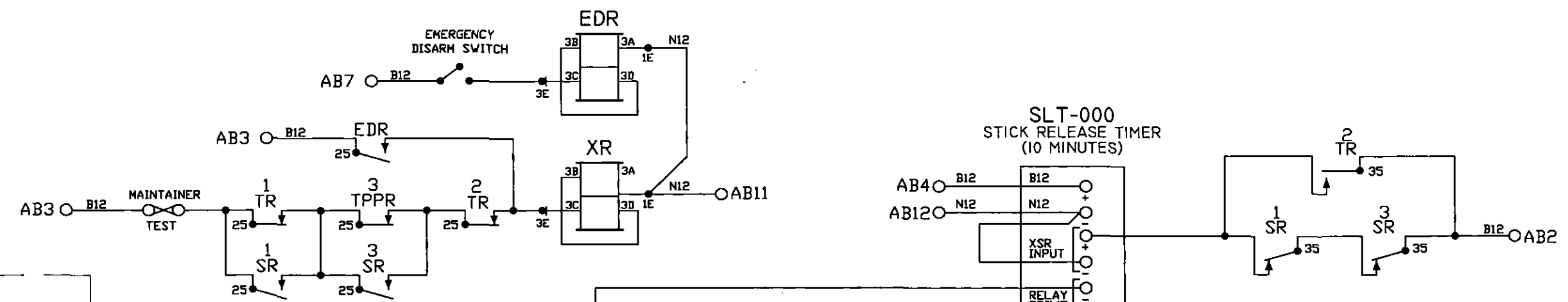
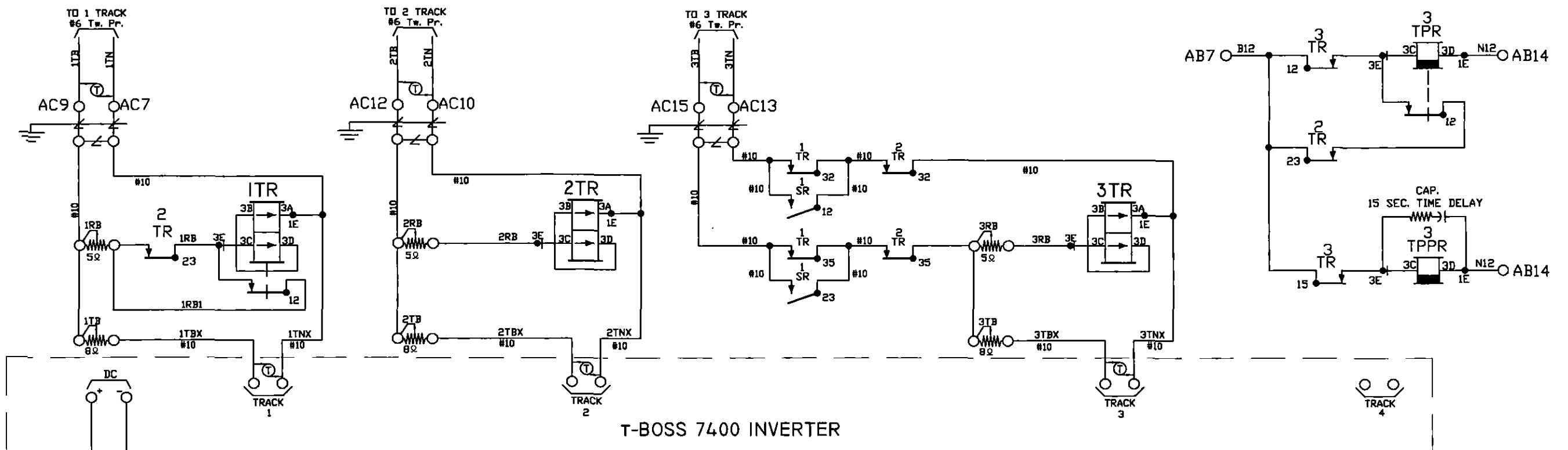
SHAMOKIN VALLEY RAILROAD  
RAILROAD CROSSING WARNING DEVICES

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

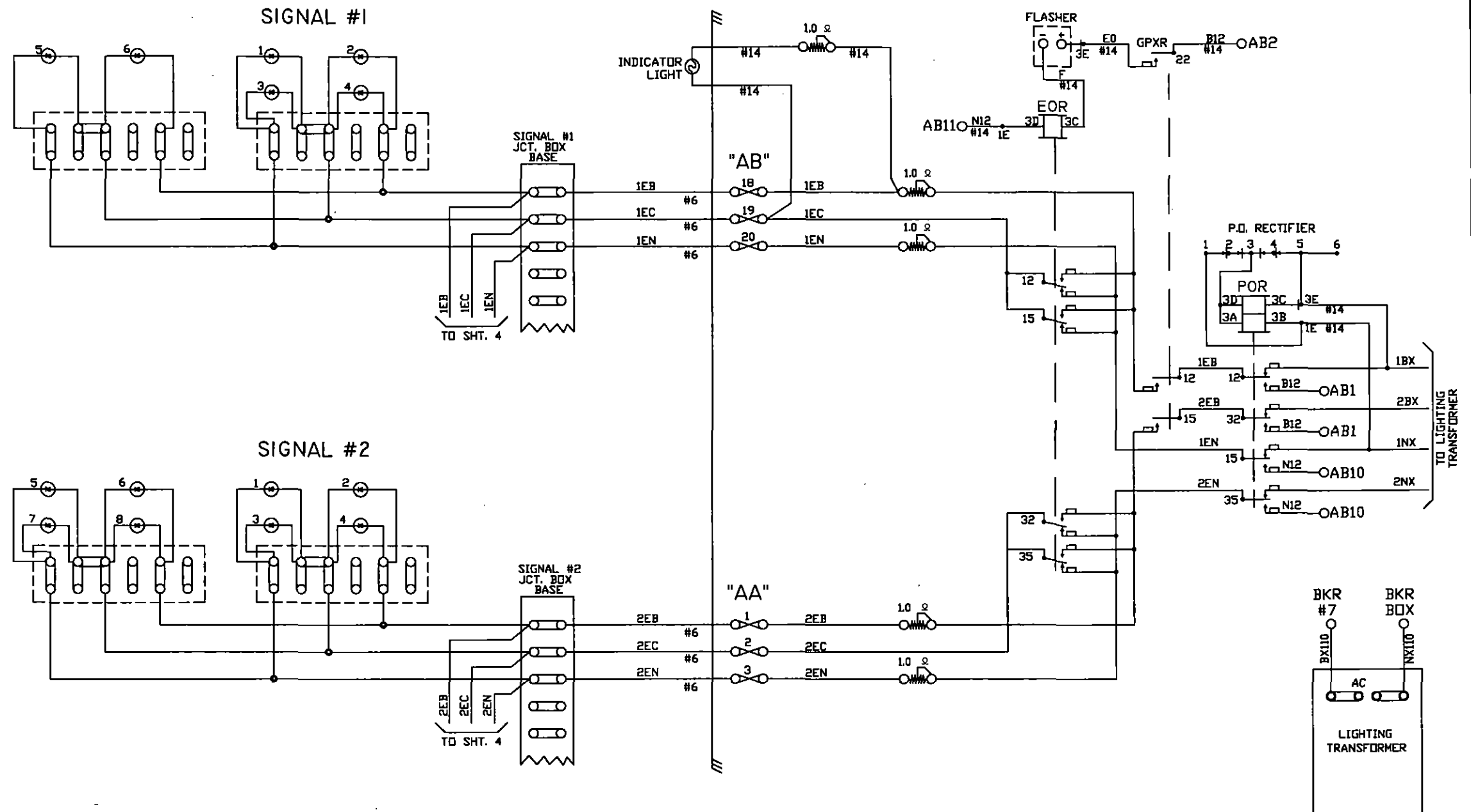
TRACK & CABLE PLAN  
DRAWING NUMBER 0.86

RCVD PUC SEC BUR  
FEB 23 2023 AM 10:53



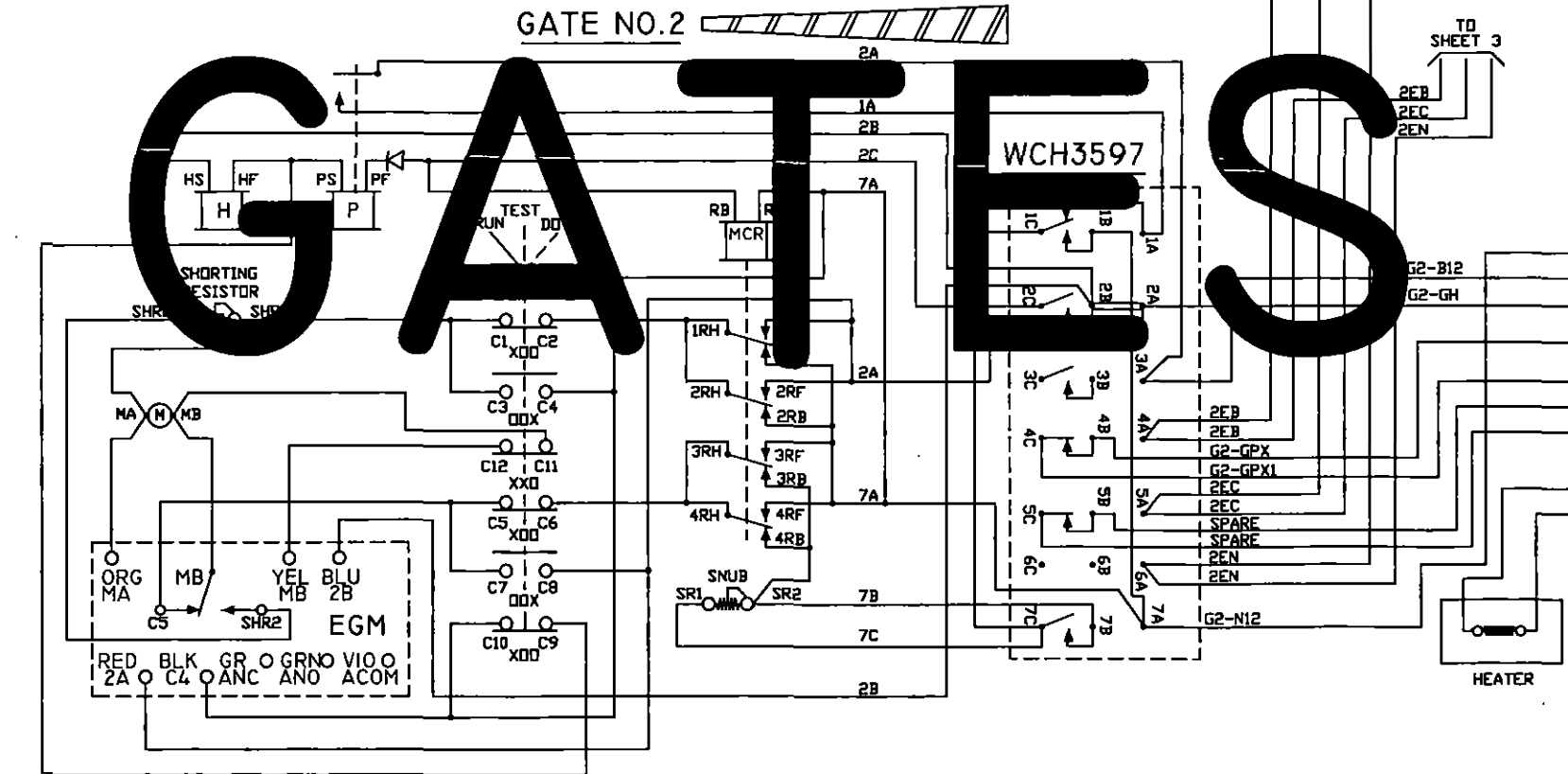
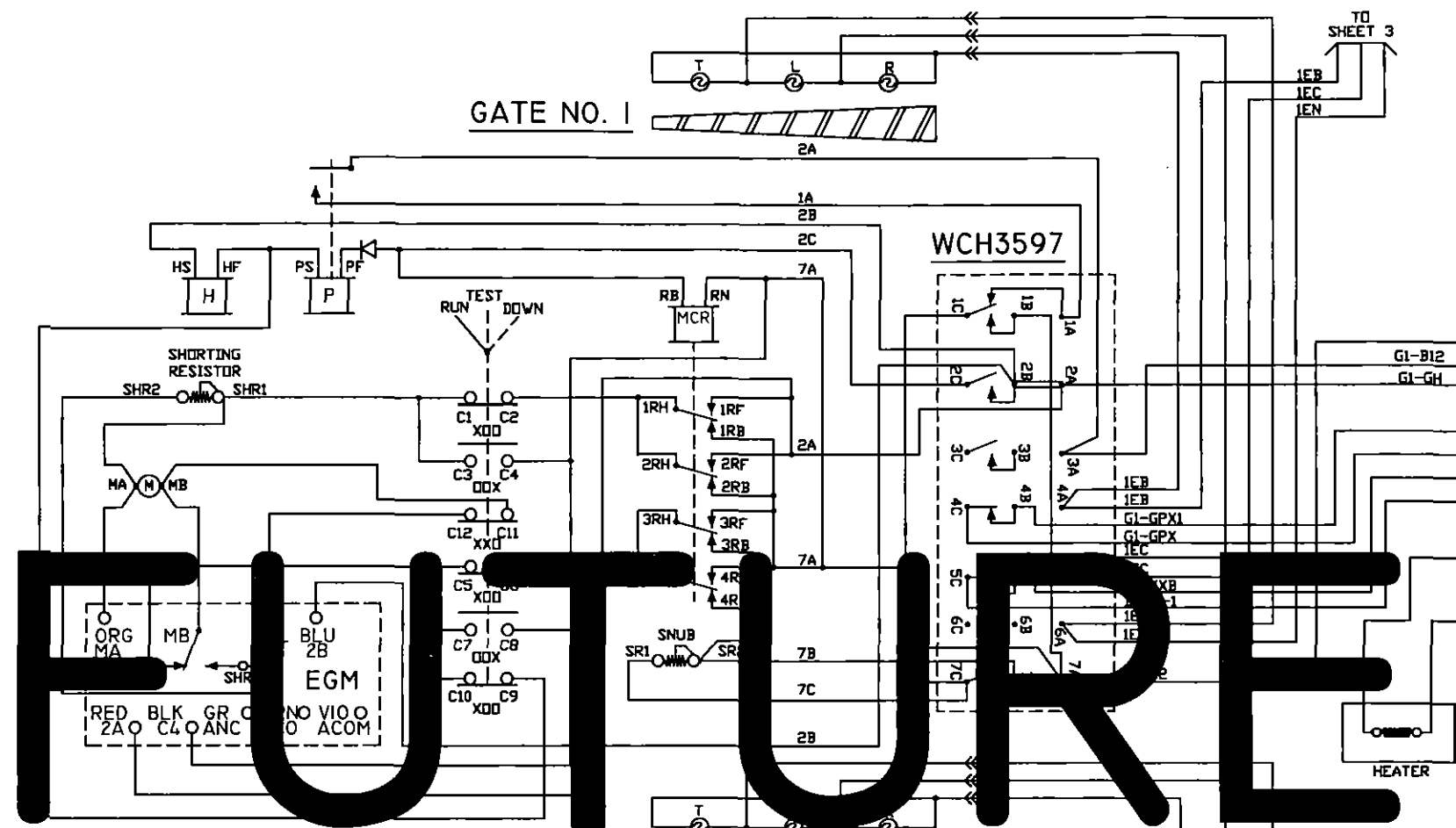
- NOTES:
1. ALL WIRE THIS SHEET IS #14 AWG FLEX UNLESS OTHERWISE NOTED.
  2. (T) DENOTES TWISTED PAIR.

<b>DIAMONDBACK SIGNAL</b> (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

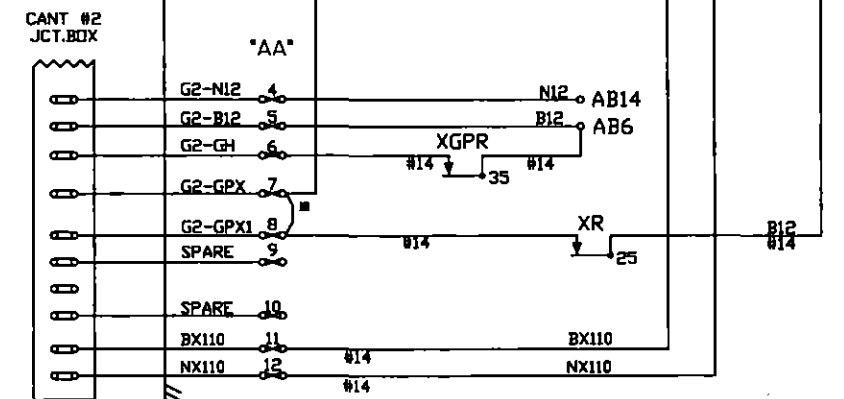
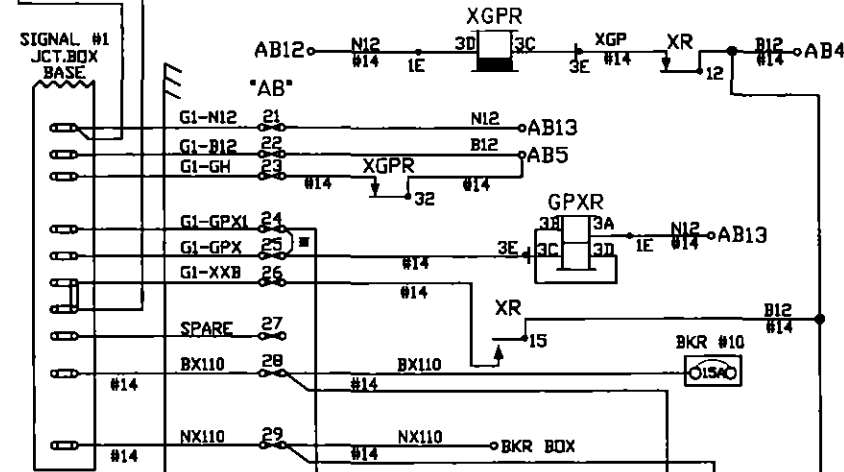


NOTE:  
ALL WIRE THIS SHEET IS #10 AWG. FLEX  
UNLESS OTHERWISE NOTED.

<b>DIAMONDBACK SIGNAL</b>	AS WIRED		AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
(410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	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			DRAWING NUMBER
	CIRCUIT PLAN 'B'			0.86



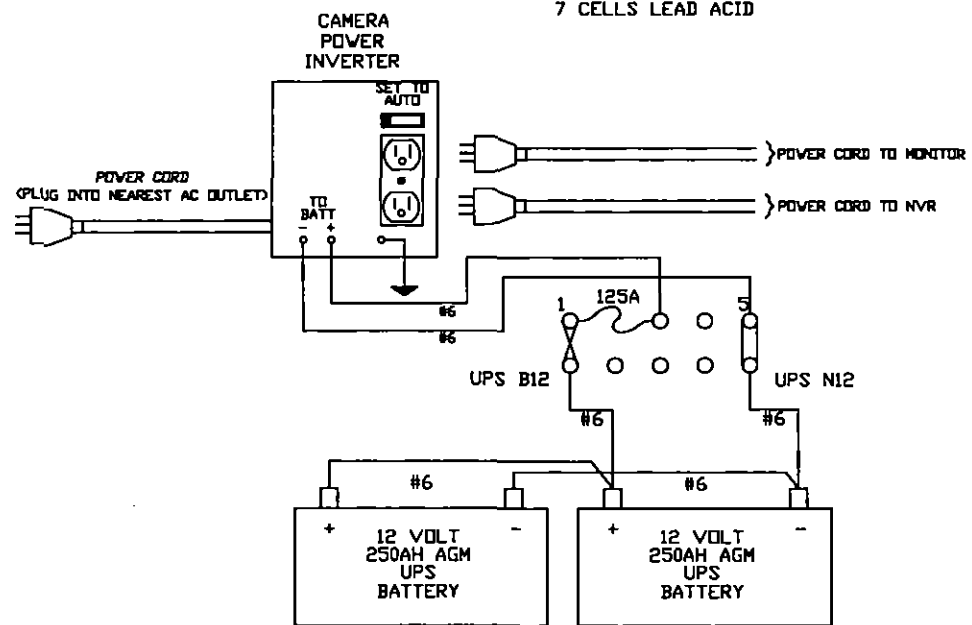
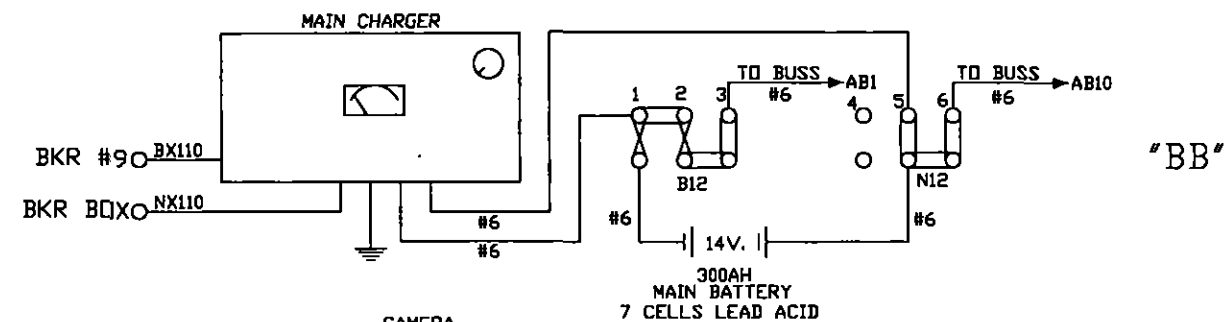
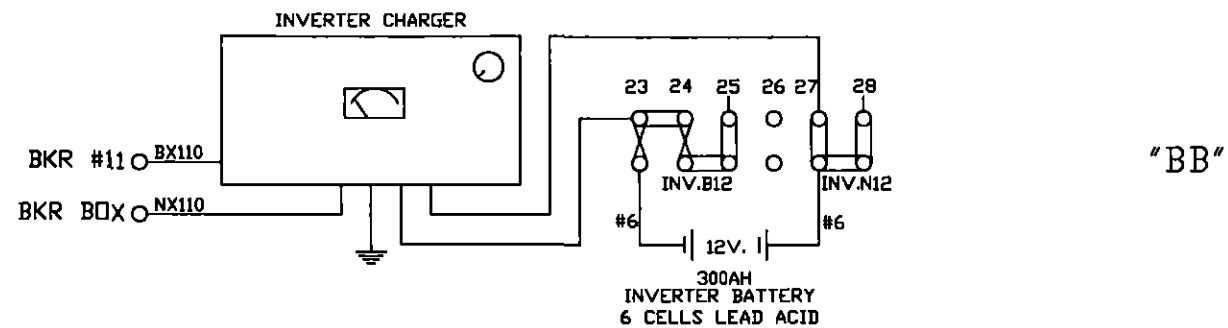
CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.



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

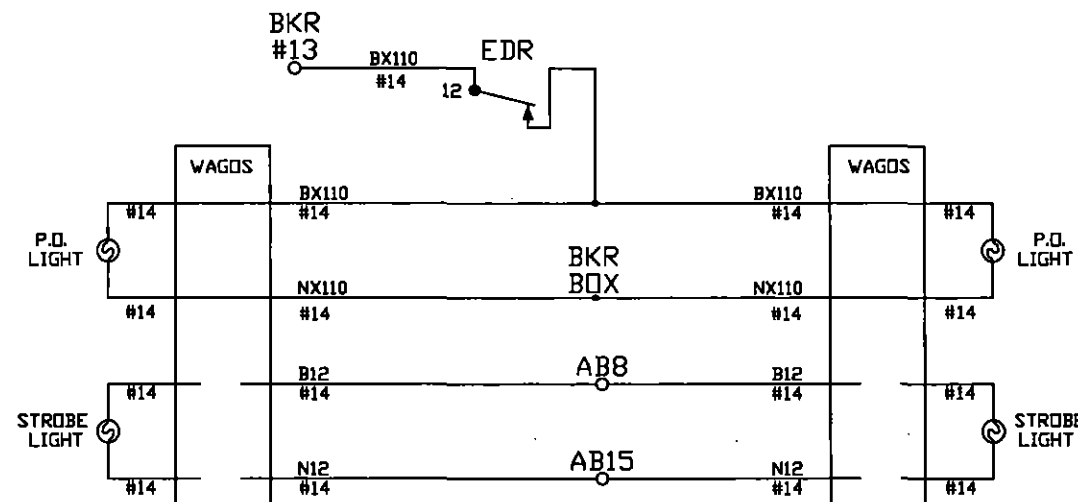
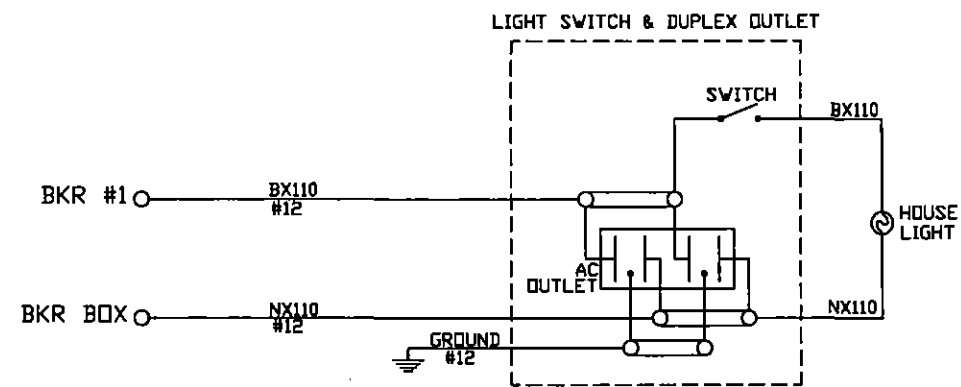
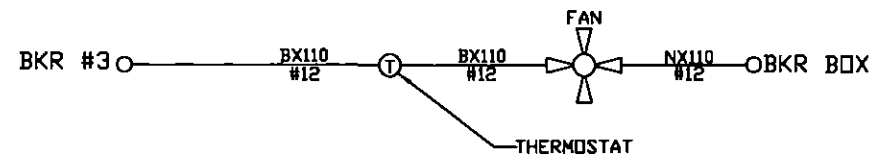
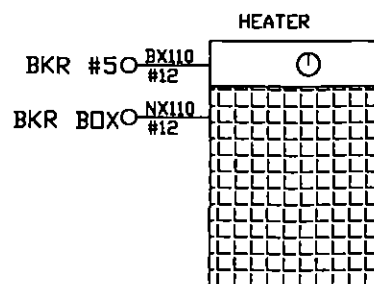
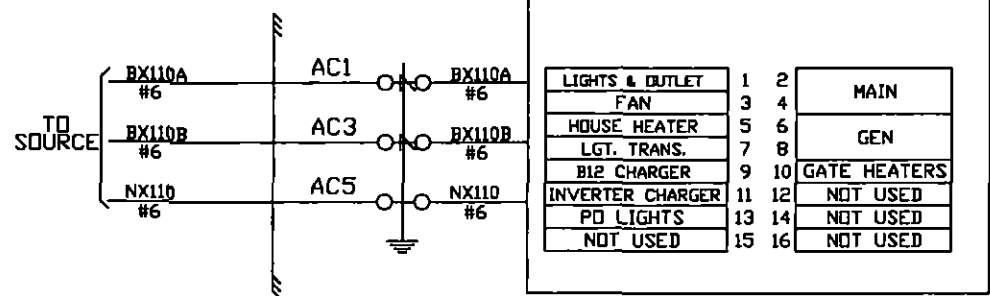
# FUTURE GATES

<b>DIAMONDBACK SIGNAL</b> (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	



ERICO EPD 120/240 VENT FAN THERMOSTAT

**BREAKER BOX**



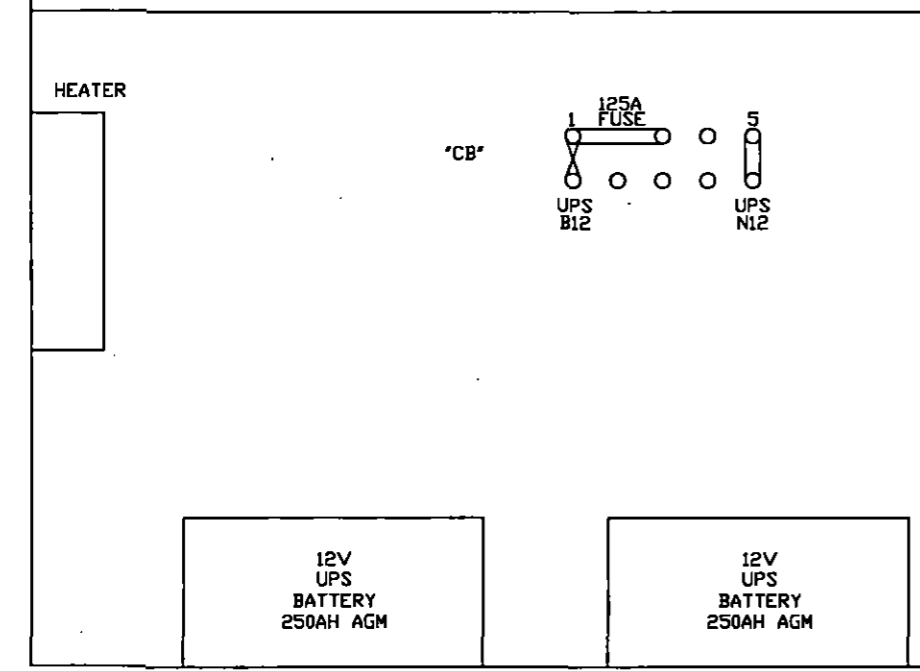
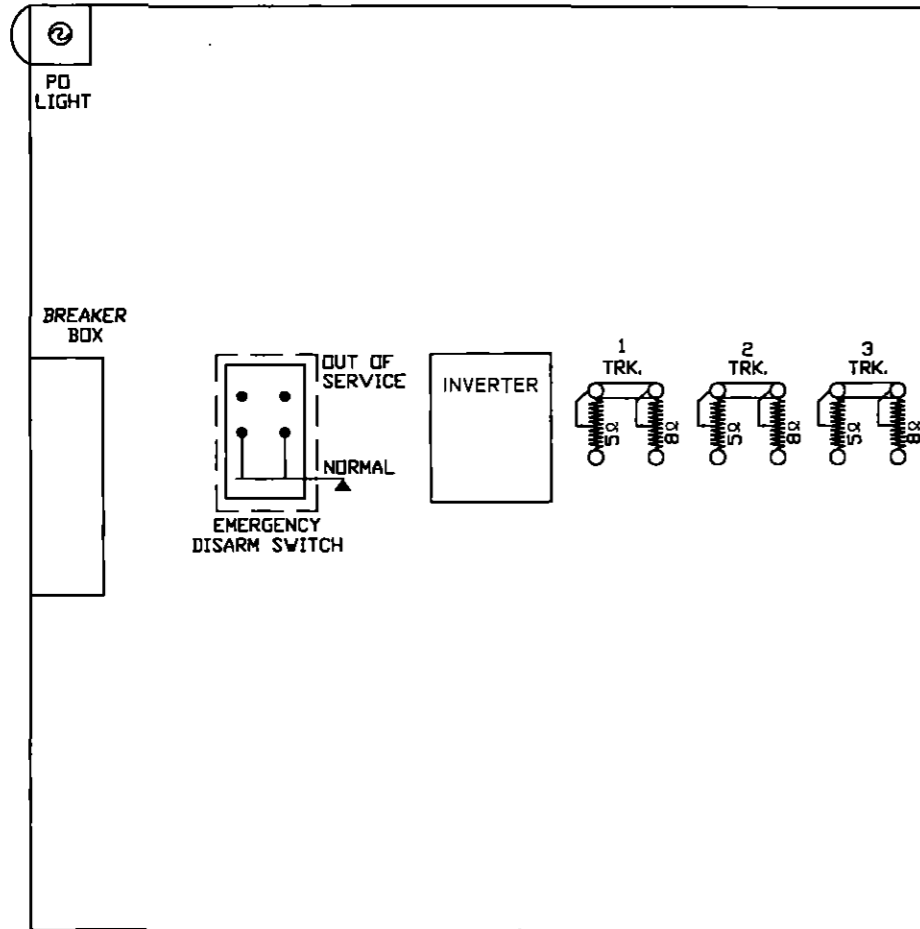
NOTE:  
ALL WIRE THIS SHEET IS #10 AWG FLEX  
UNLESS OTHERWISE NOTED.

<b>DIAMONDBACK SIGNAL</b> (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"

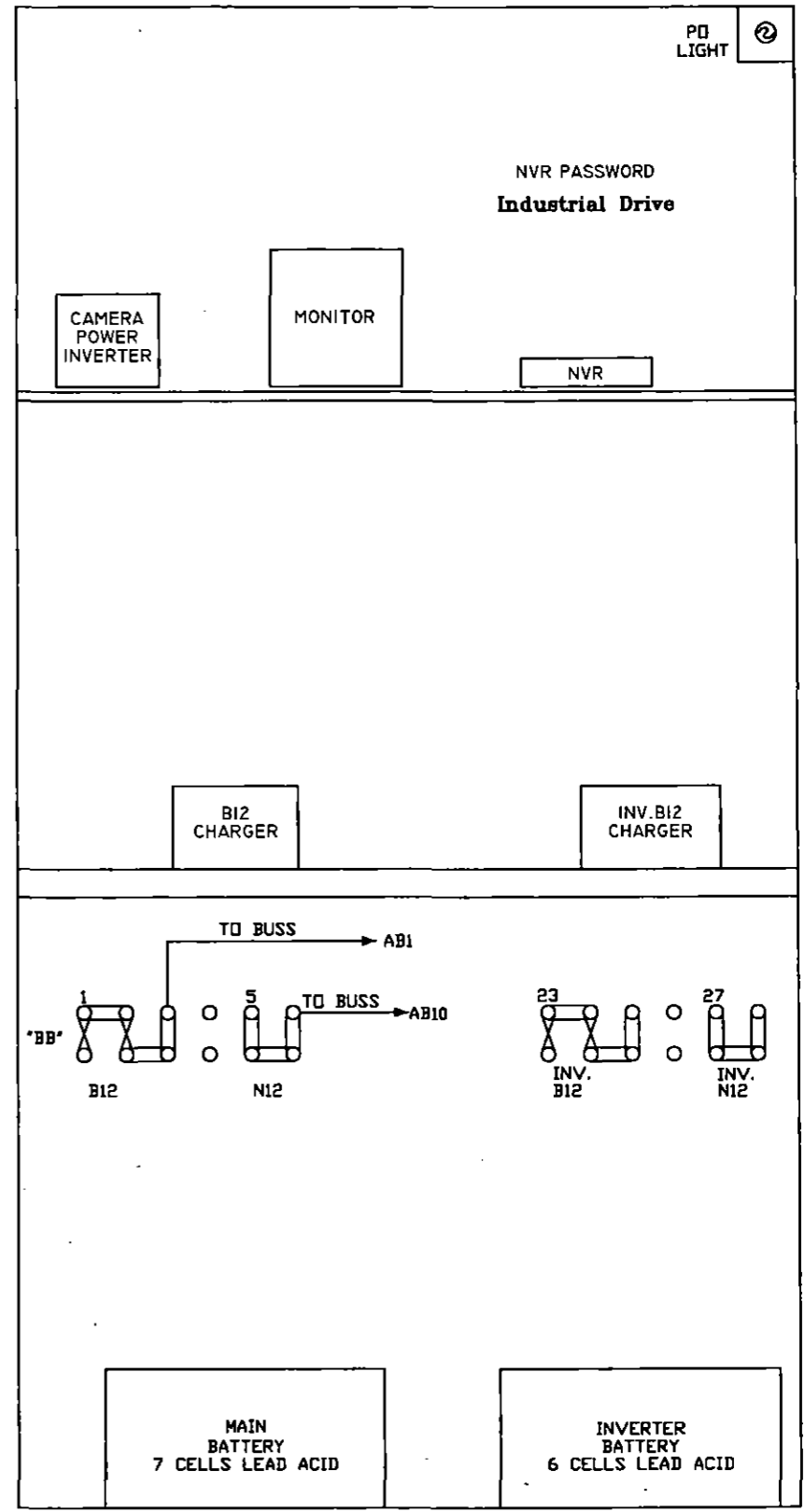
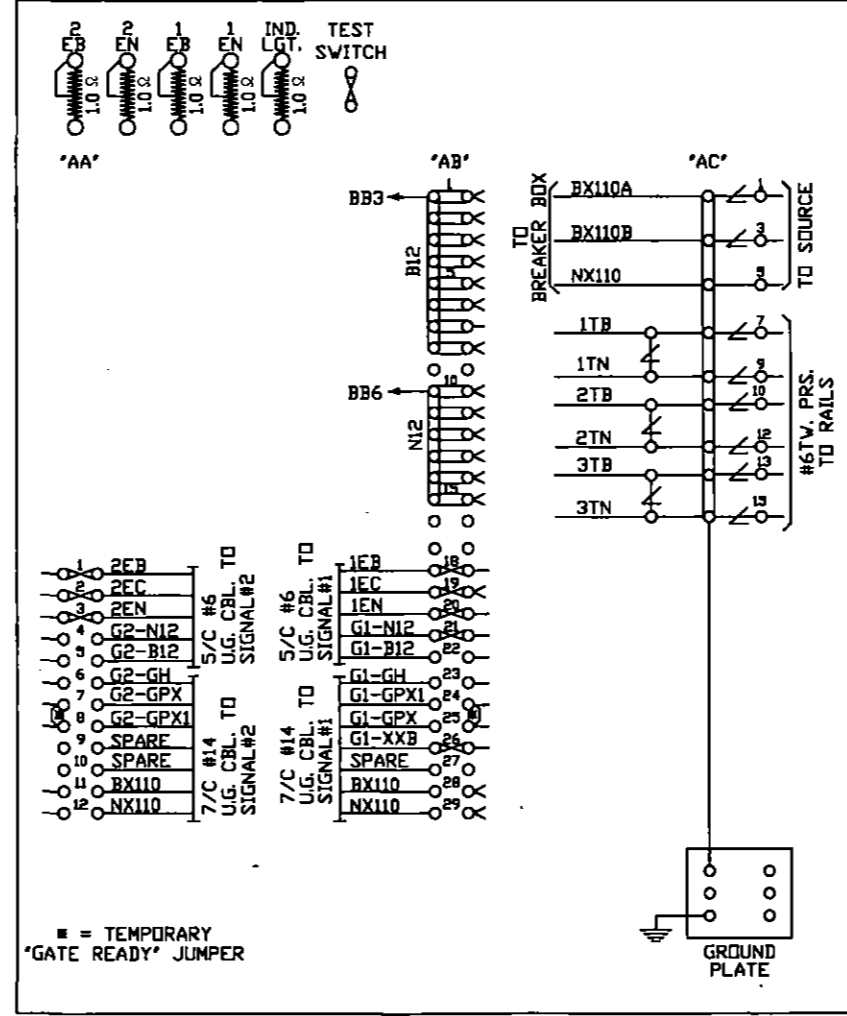
SIDE "B"



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		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	3 TPR	3 SR	SLT-000 STICK RELEASE TIMER (10 MIN)
	12	12 F	12 F	12 F	12	12	12
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	35 B	35 B	35 B	35 B	
	A62-357	A62-120	A62-120	A62-120	A62-357	A62-357	
	400211	400510	400510	400510	400211	400211	



<b>DIAMONDBACK SIGNAL</b> (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				
RELAY HOUSE LAYOUT			DRAWING NUMBER 0.86	

WEST

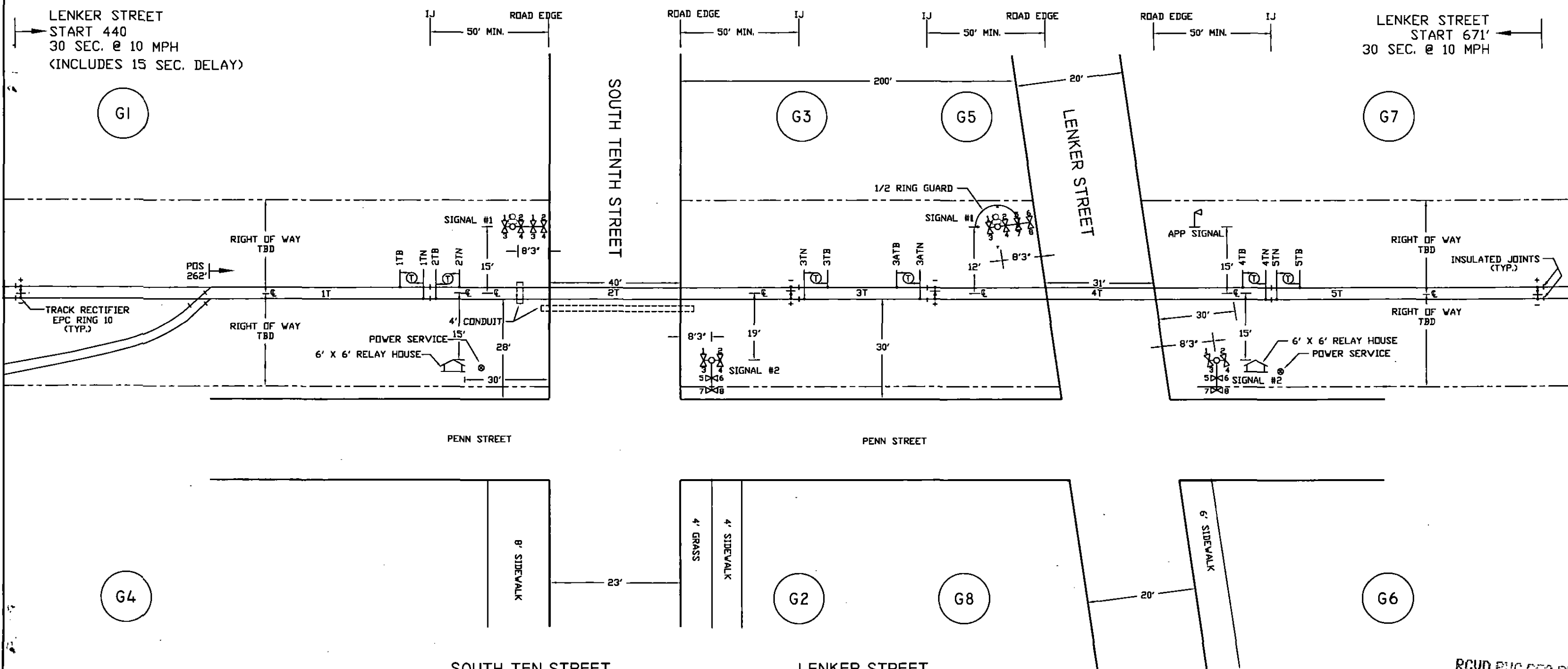
EAST

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

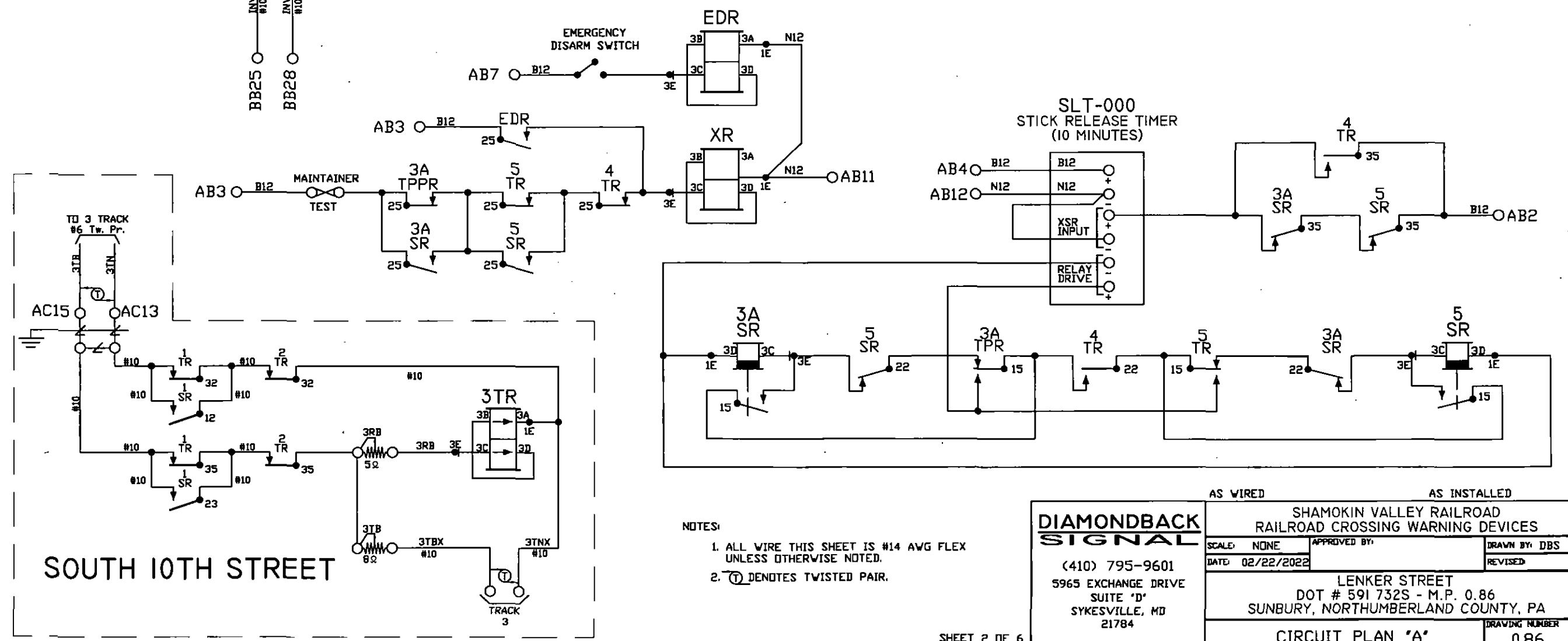
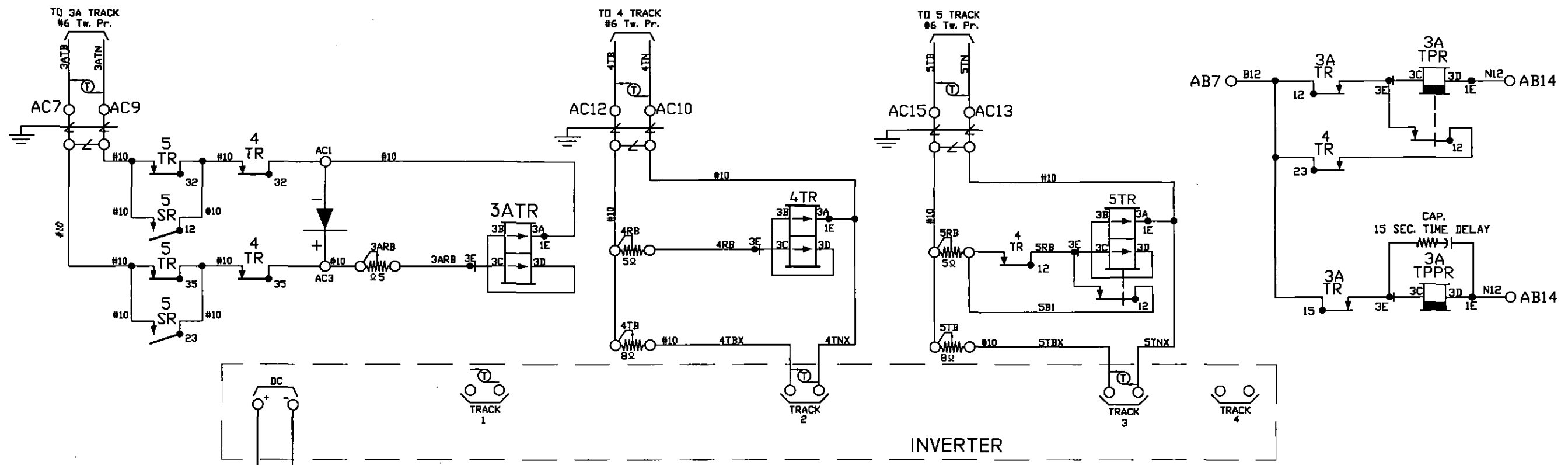
HOUSE TO SIGNAL #1	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO SIGNAL #2	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO AC SERVICE	- 3/C #9 UG CABLE
HOUSE TO 3ATN & 3ATB	- 2/C #6 TWISTED PAIR
HOUSE TO 4TN & 4TB	- 2/C #6 TWISTED PAIR
HOUSE TO 5TN & 5TB	- 2/C #6 TWISTED PAIR

**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

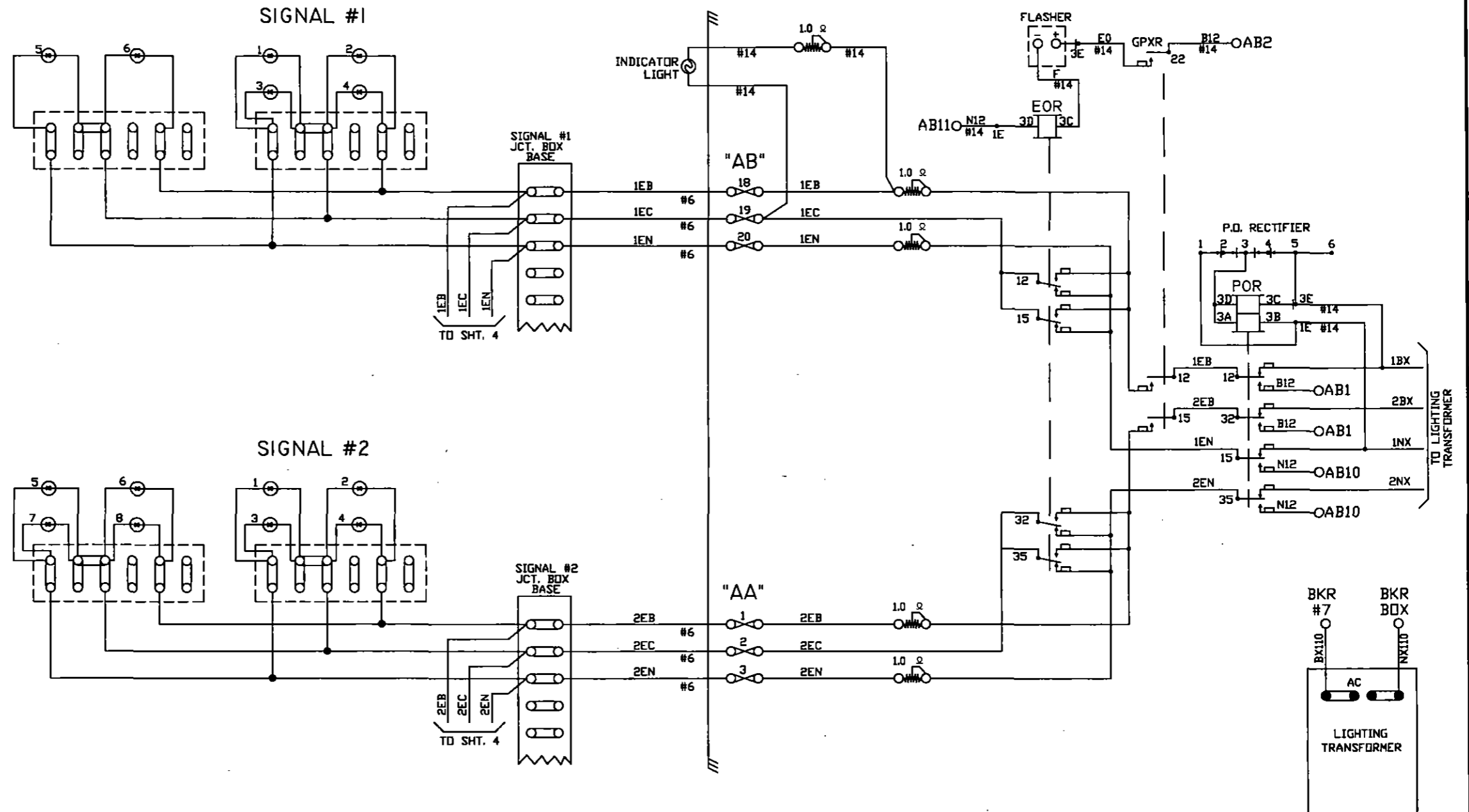
RCVD PUC SEC B1  
FEB 23 2023 P.M.



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

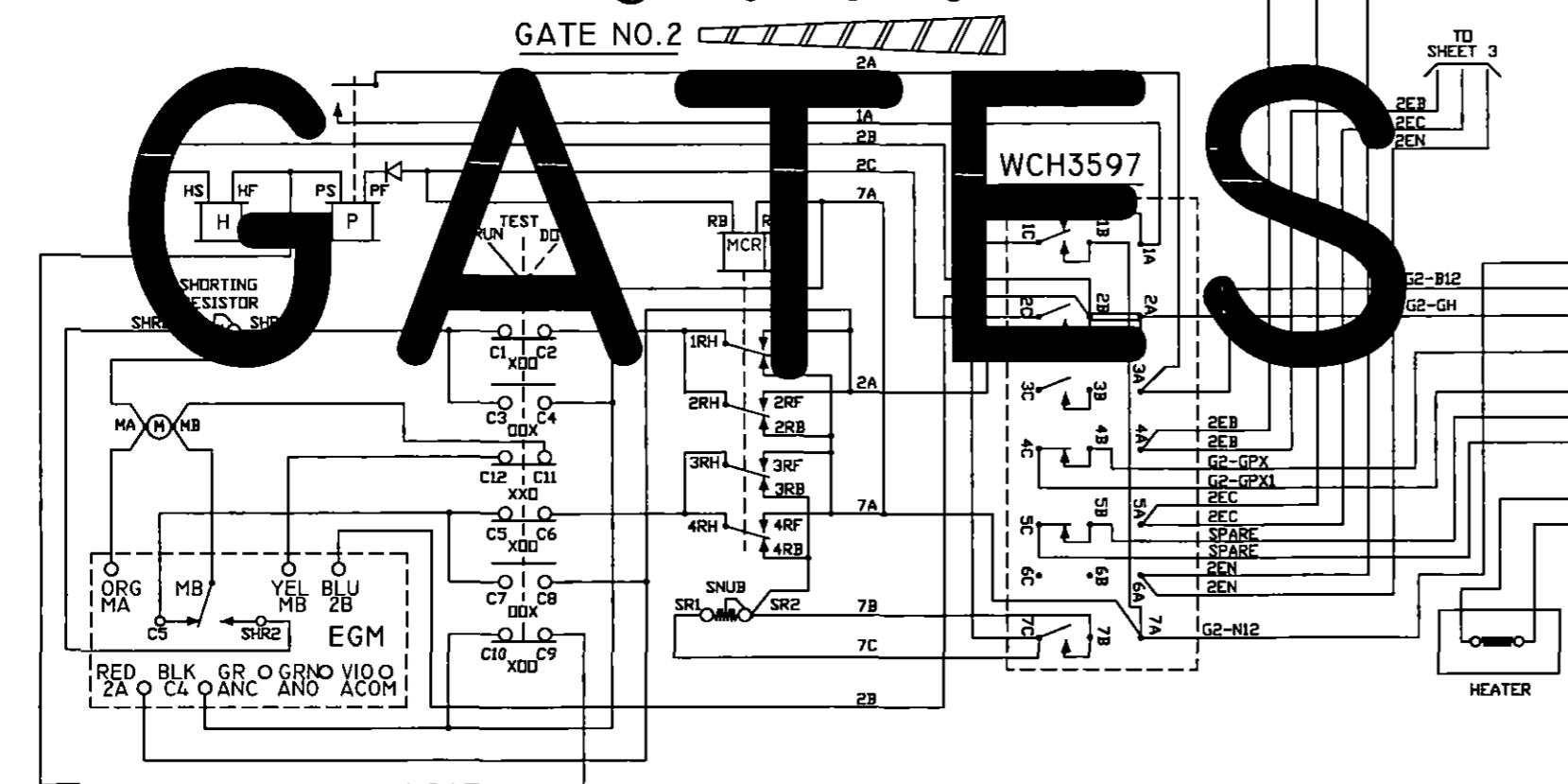
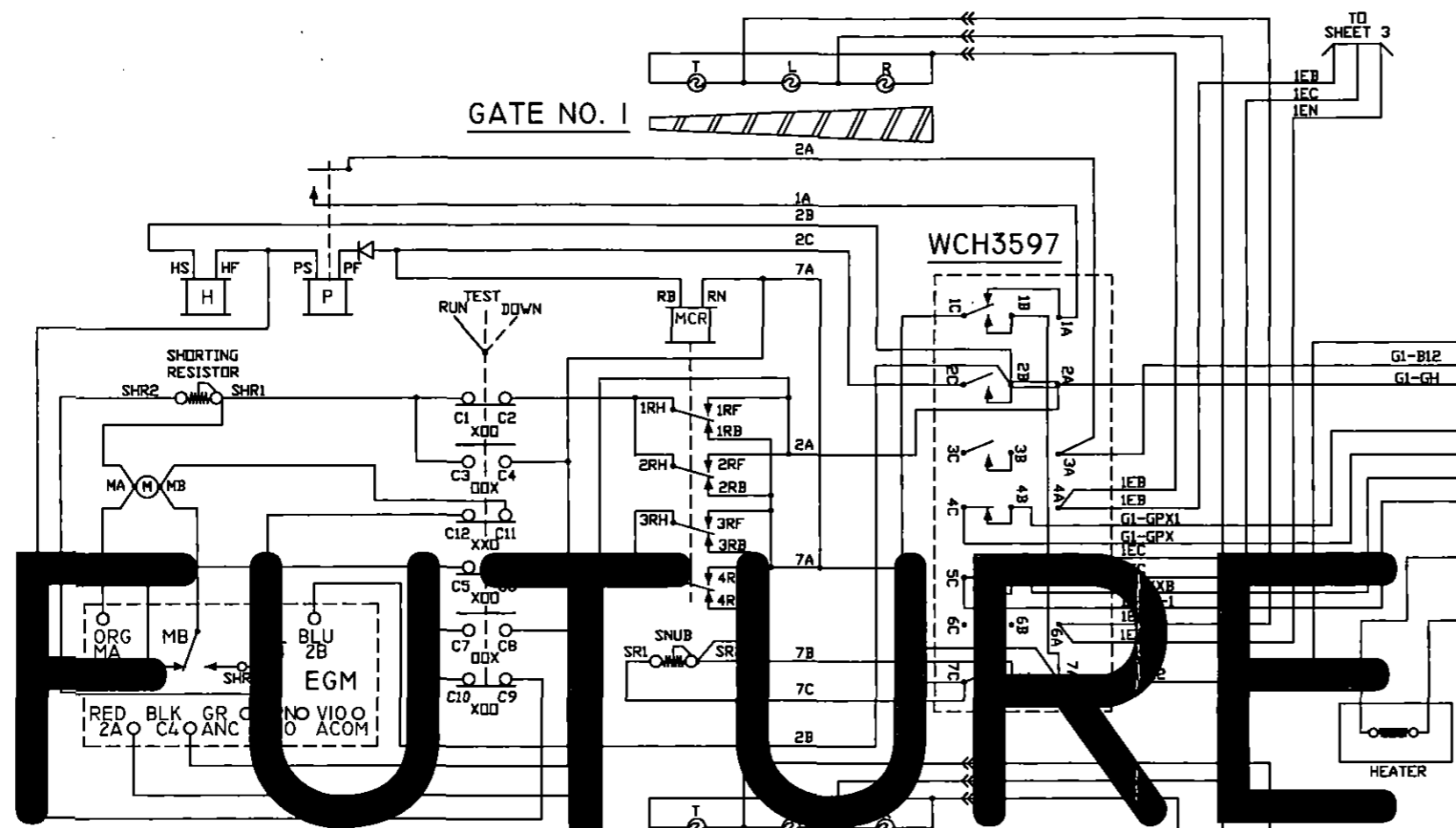
**DIAMONDBACK SIGNAL**  
 (410) 795-9601  
 5965 EXCHANGE DRIVE  
 SUITE 'D'  
 SYKESVILLE, MD  
 21784

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

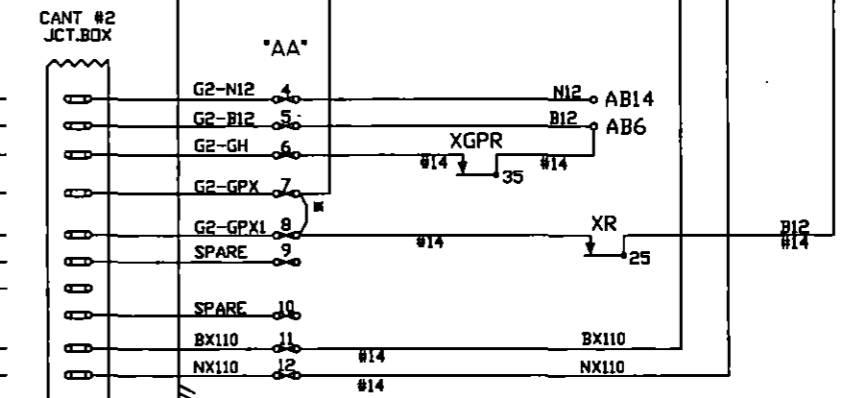
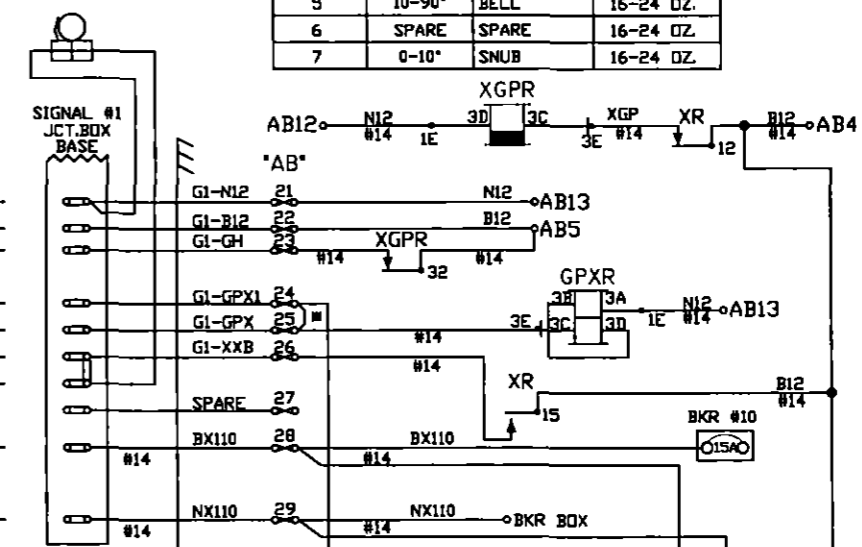


NOTE:  
ALL WIRE THIS SHEET IS #10 AWG. FLEX  
UNLESS OTHERWISE NOTED.

<b>DIAMONDBACK SIGNAL</b>  (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	



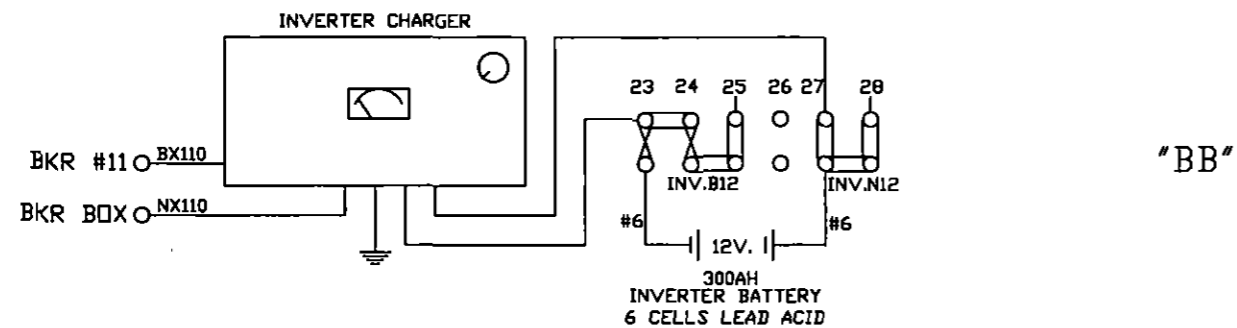
CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.



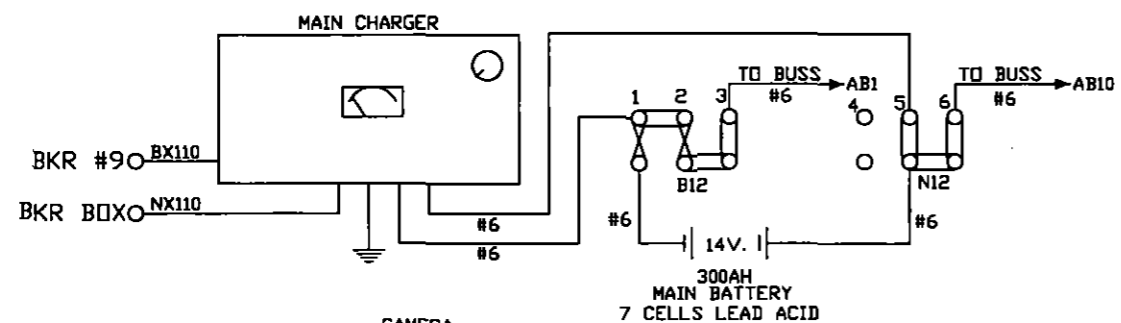
NOTES:  
 ALL WIRE ON THIS SHEET IS #10AWG UNLESS OTHERWISE NOTED.  
 \* = TEMPORARY 'GATE READY' JUMPER.

FUTURE GATES

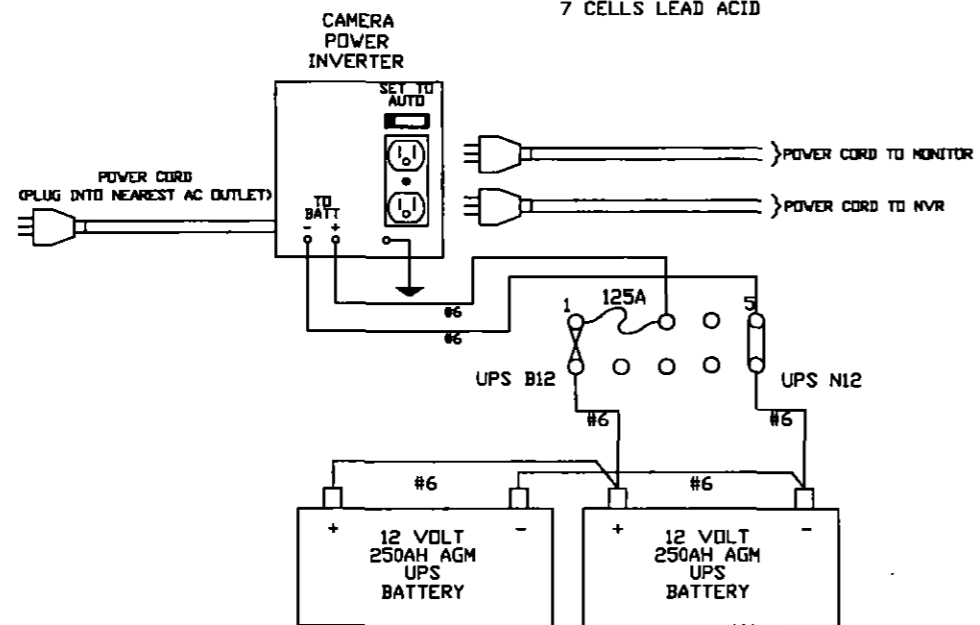
<b>DIAMONDBACK SIGNAL</b> (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 02/22/2022		REVISED:
LENKER STREET DOT # 591 732S - M.P. 0.86 SUNBURY, NORTHUMBERLAND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



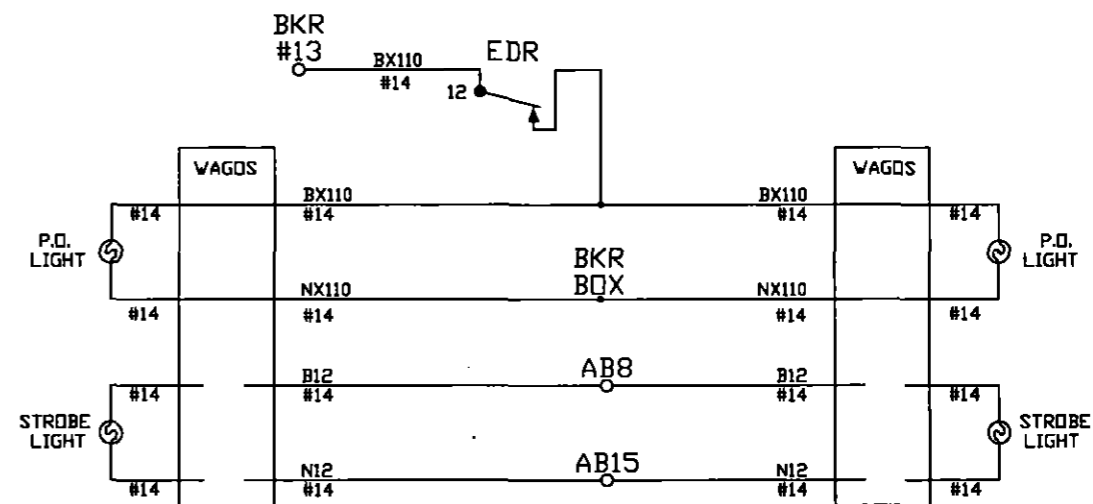
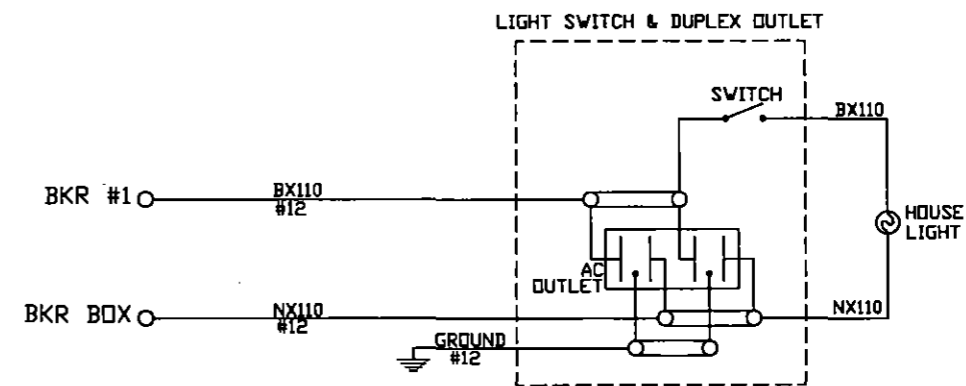
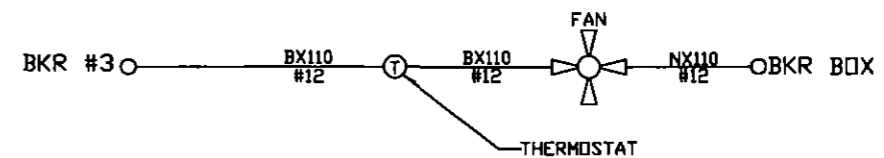
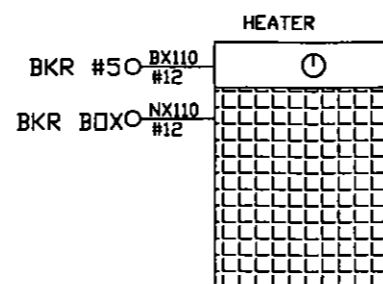
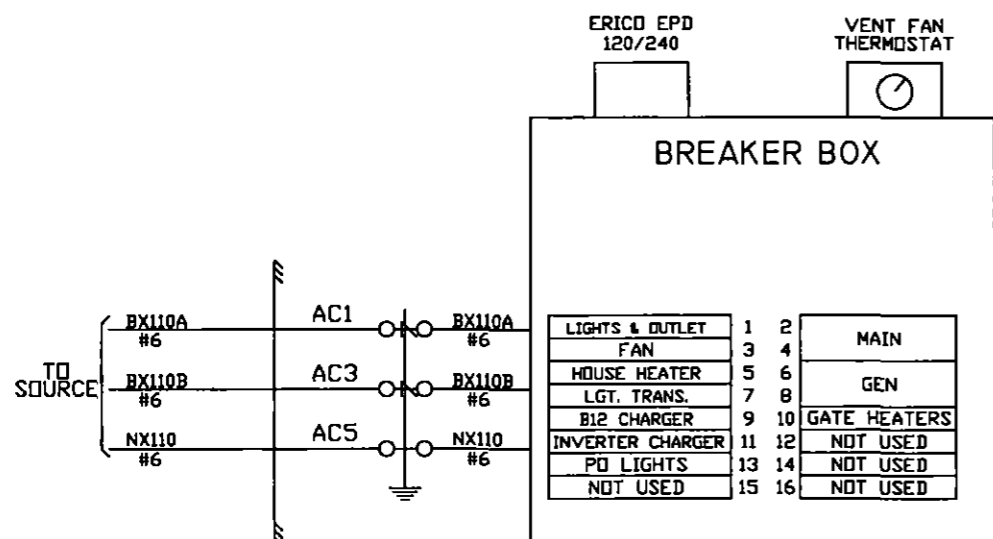
"BB"



"BB"



"CB"



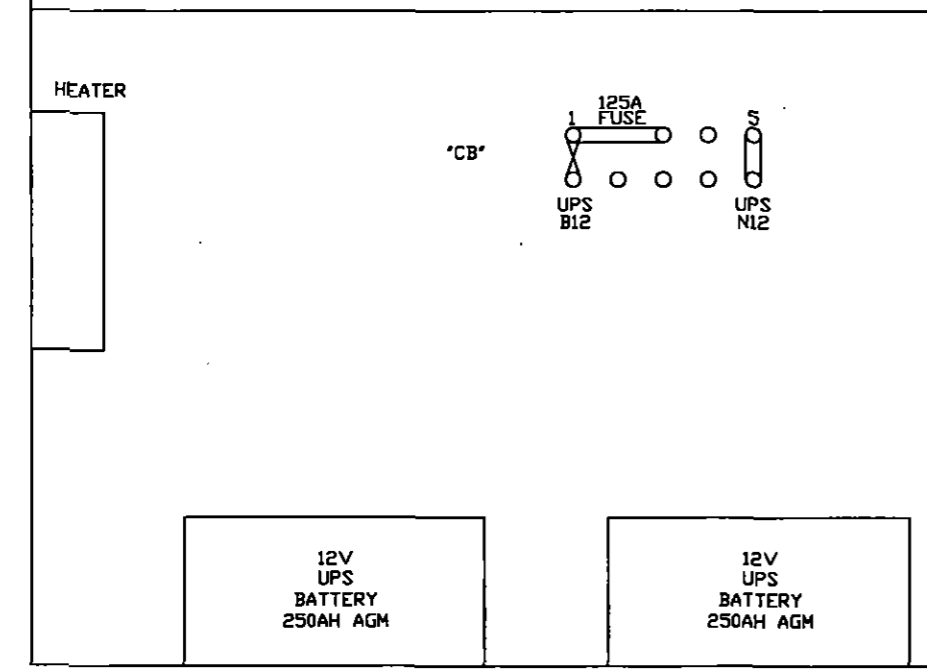
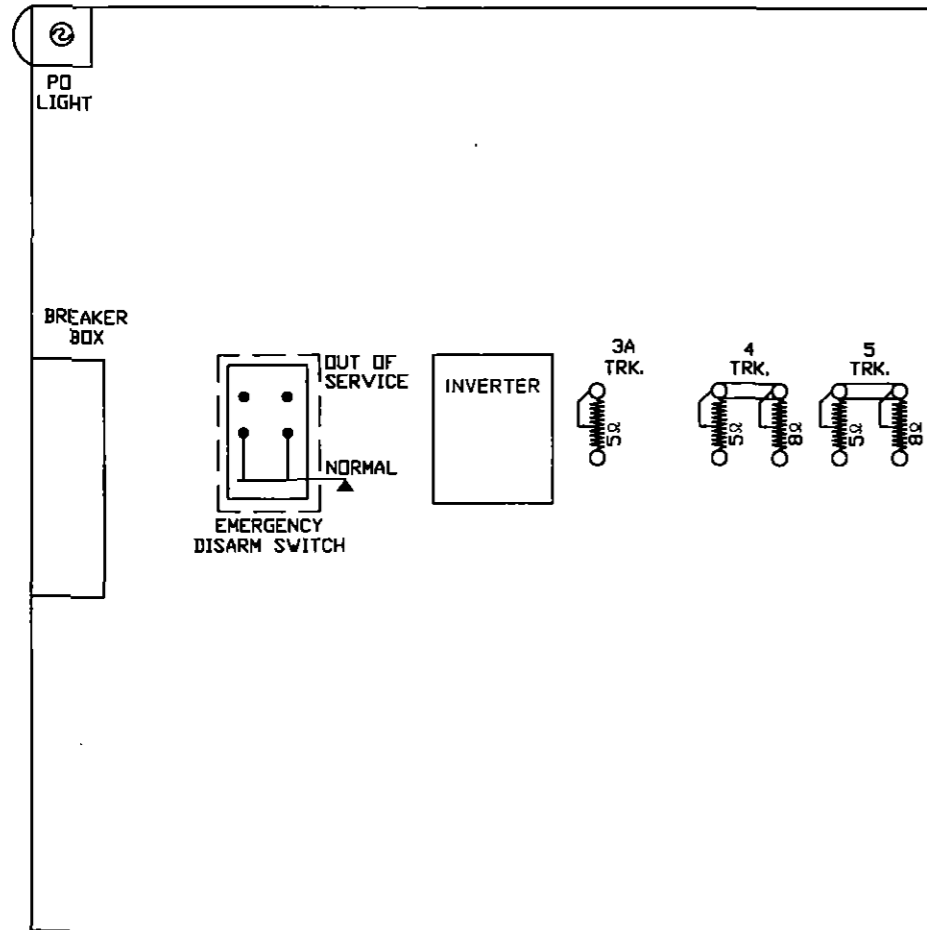
NOTE  
ALL WIRE THIS SHEET IS #10 AWG FLEX  
UNLESS OTHERWISE NOTED.

DIAMONDBACK  
SIGNAL

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

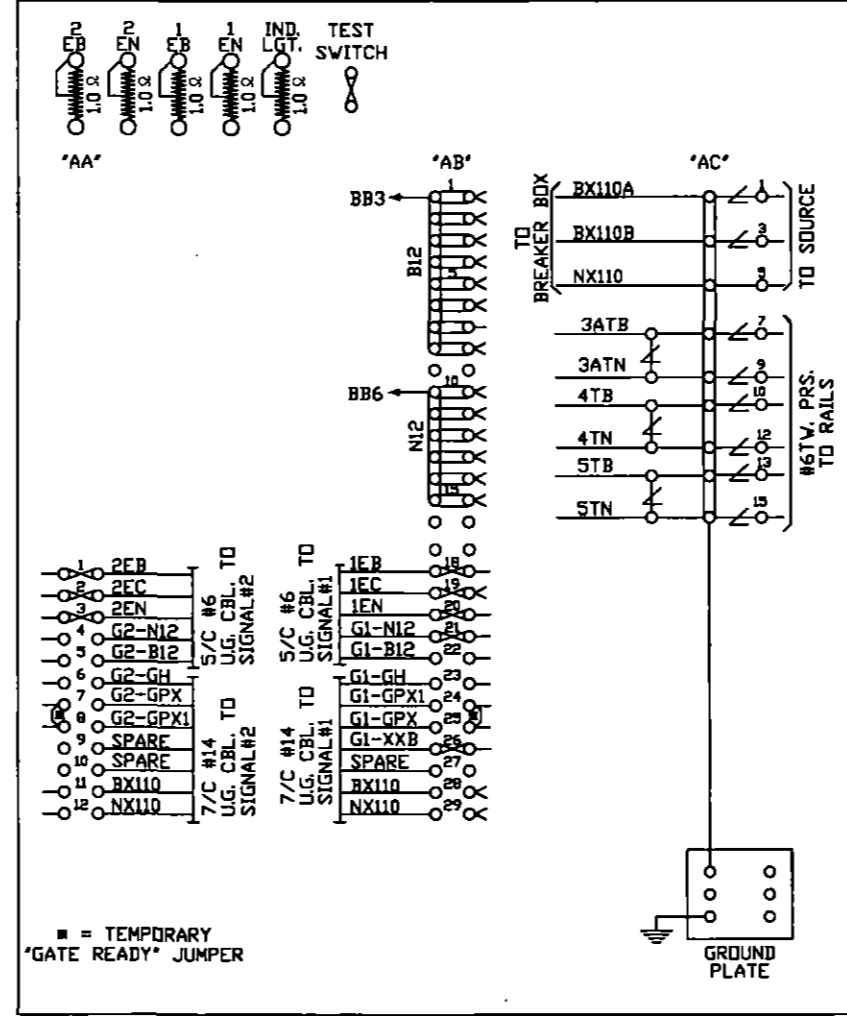
AS WIRED		AS INSTALLED	
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 02/22/2022		REVISED:	
LENKER STREET DOT # 591 732S - M.P. 0.86 SUNBURY, NORTHUMBERLAND COUNTY, PA			
CIRCUIT PLAN 'D'			DRAWING NUMBER 0.86

SIDE "C"

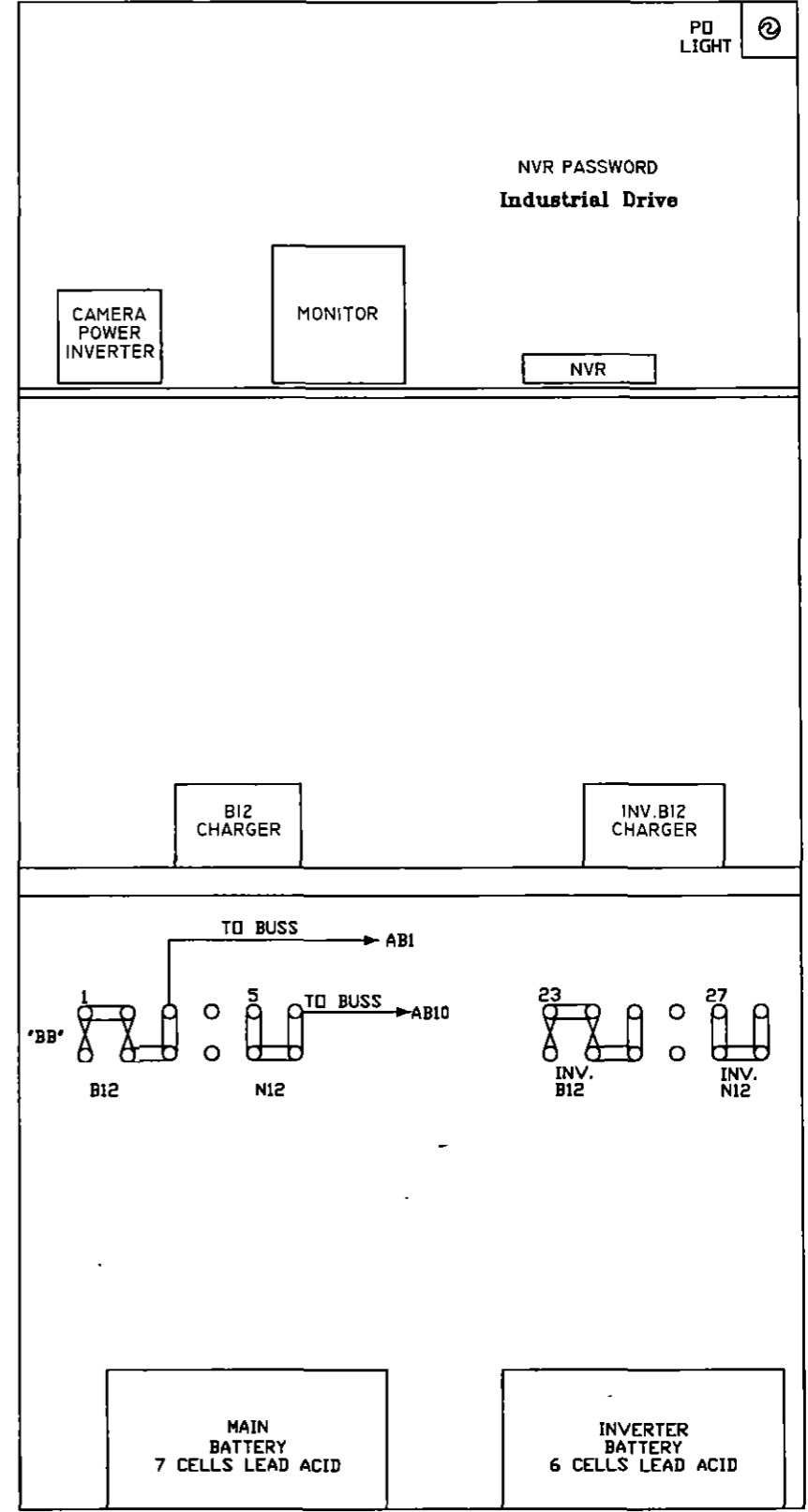


SIDE "A"

LIGHT TRANS.	POR	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	32 F	22 B
		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	
	SA SR	SA TR	SA TPR	SA TPR	L TR	S TR	S SR
	12	12 F	12	12	12 F	12 F	12
	15	F	15 FB	15 F	15	15 FB	15 F
	22	B	22	22 B	22 B	22	22 B
	23	B	23	23 B	23 F	23	23
	25	F	25 F	25 F	25 F	25 F	25 F
	32	F	32	32	32	32	32
	35	B	35 B	35 B	35 B	35	35 B
	A62-357	A62-120	A62-357	A62-357	A62-120	A62-120	A62-357
	4002H	400510	4002H	400510	400510	4002H	



SIDE "B"



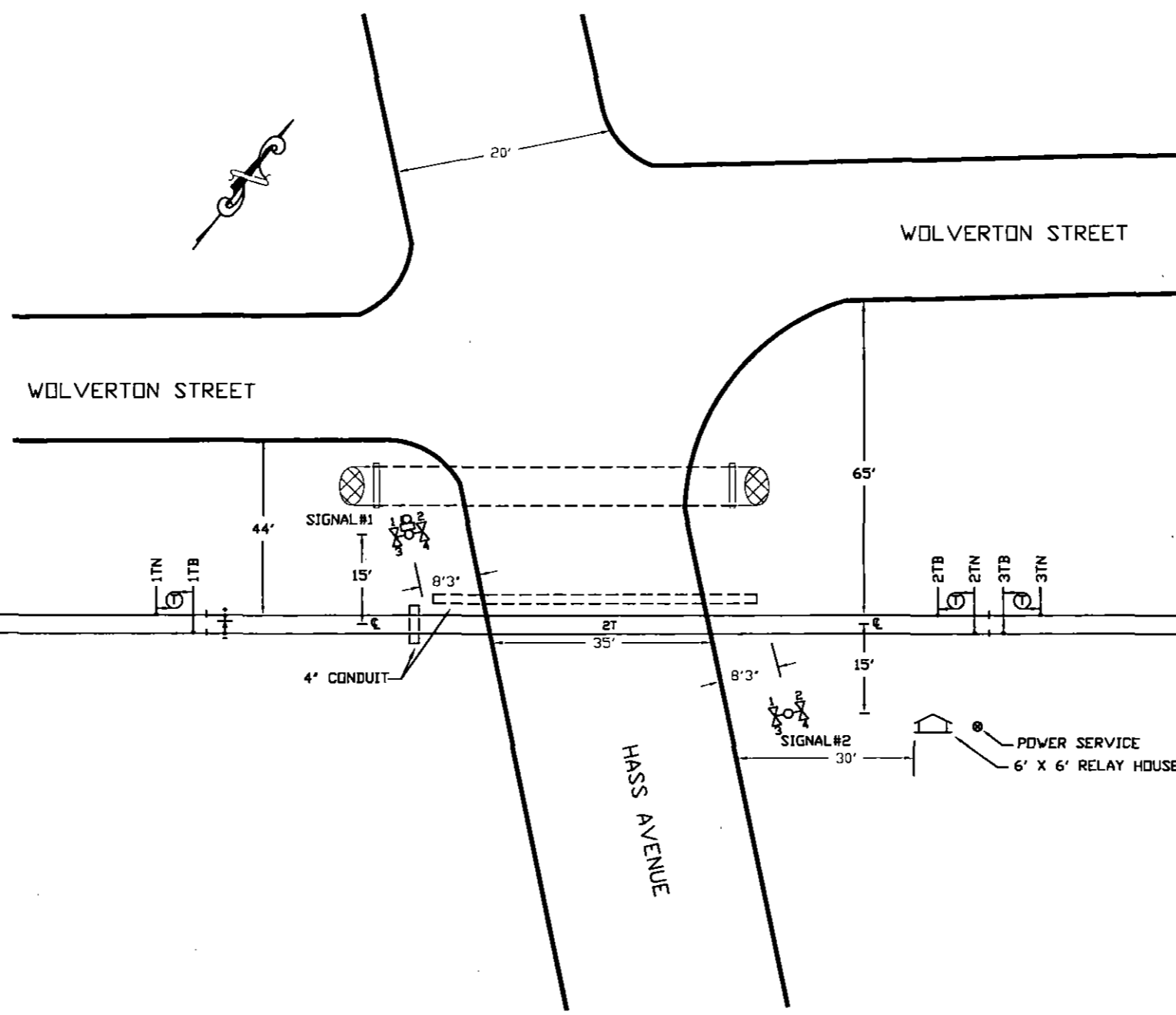
<p><b>DIAMONDBACK SIGNAL</b> (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784</p>	AS WIRED	AS INSTALLED
	<p>SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES</p>	
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
DATE: 02/22/2022		REVISED:
<p>LENKER STREET DOT # 591 732S - M.P. 0.86 SUNBURY,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

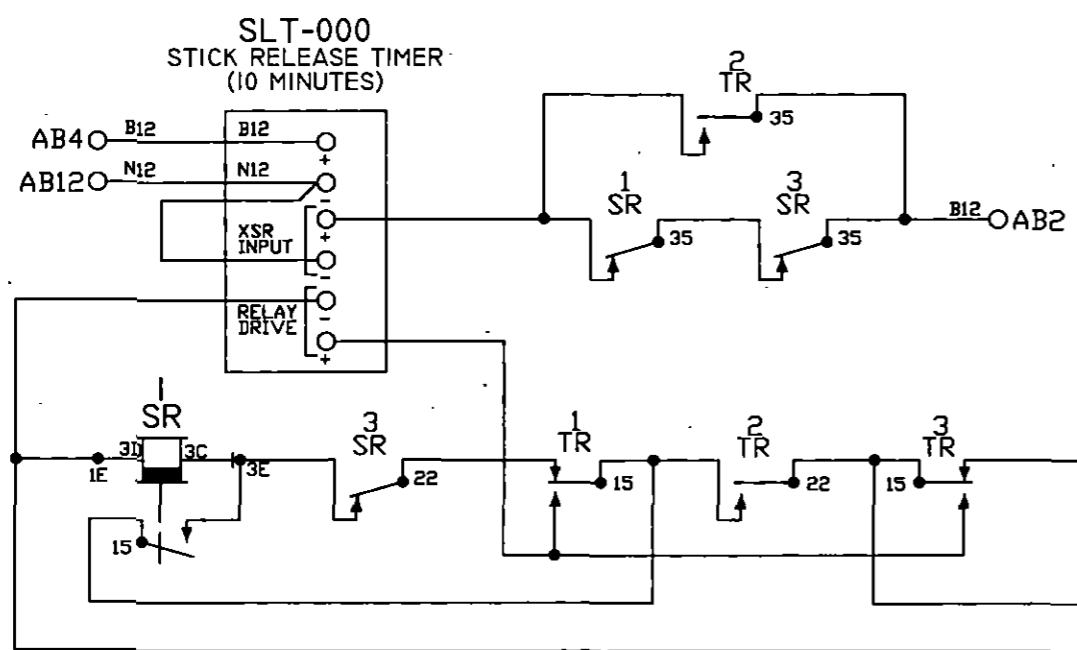
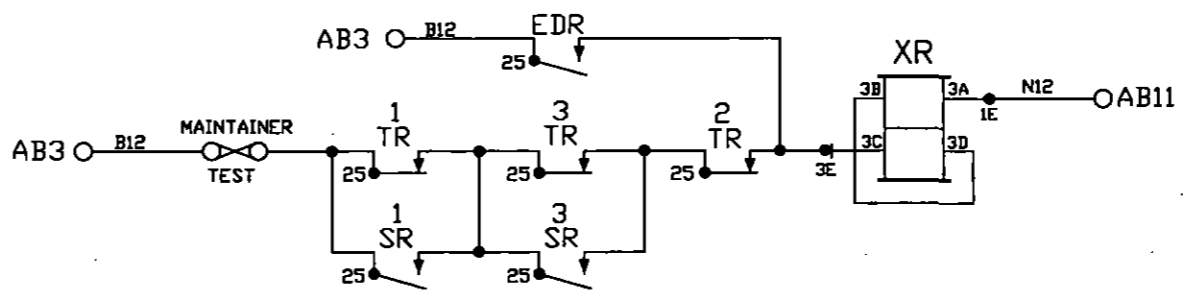
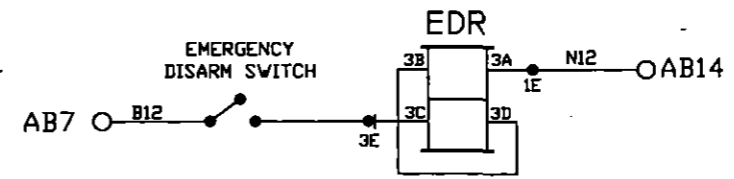
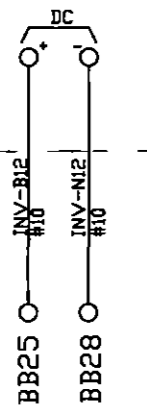
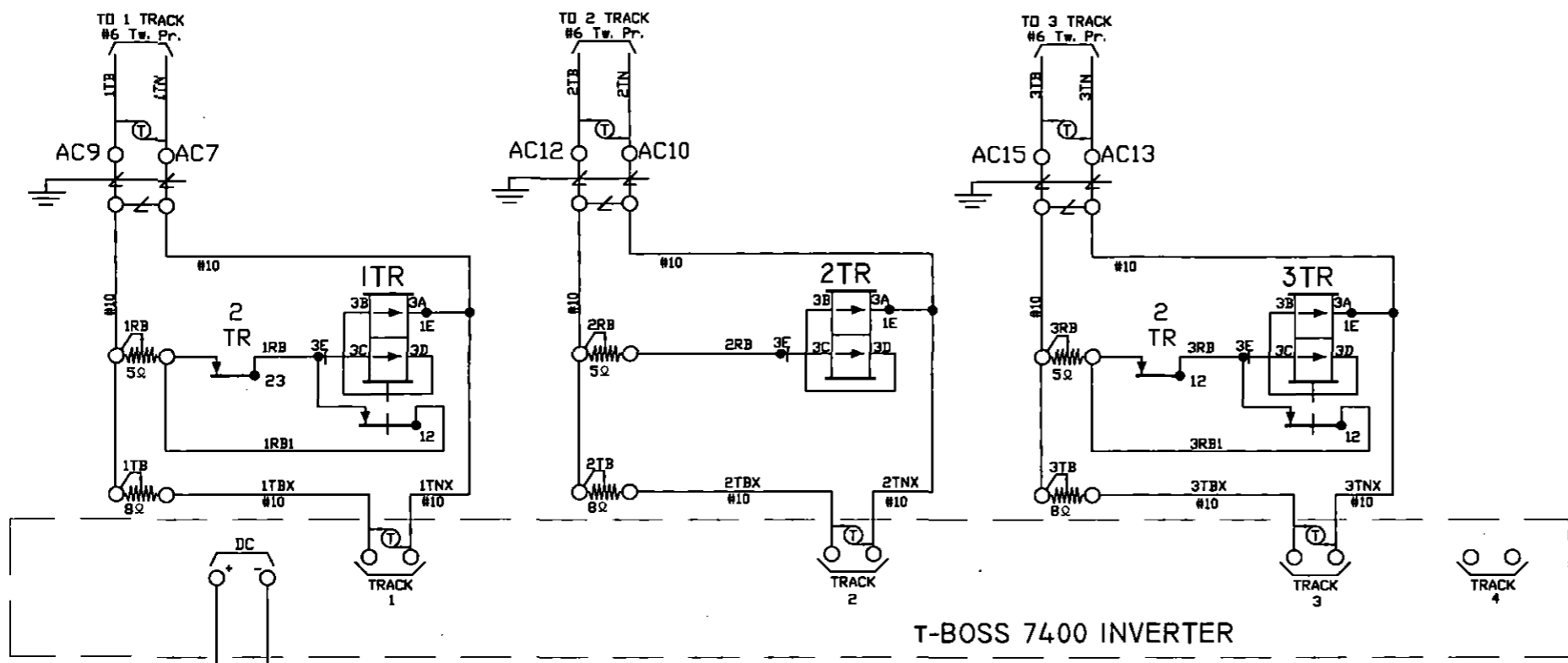
HOUSE TO SIGNAL #1	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO SIGNAL #2	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO AC SERVICE	- 3/C #9 UG CABLE
HOUSE TO 1TN & 1TB	- 2/C #6 TWISTED PAIR
HOUSE TO 2TN & 2TB	- 2/C #6 TWISTED PAIR
HOUSE TO 3TN & 3TB	- 2/C #6 TWISTED PAIR

RCVD PUC SEC BUR  
FEE 23 2023 AM 10:50

**DIAMONDBACK SIGNAL**

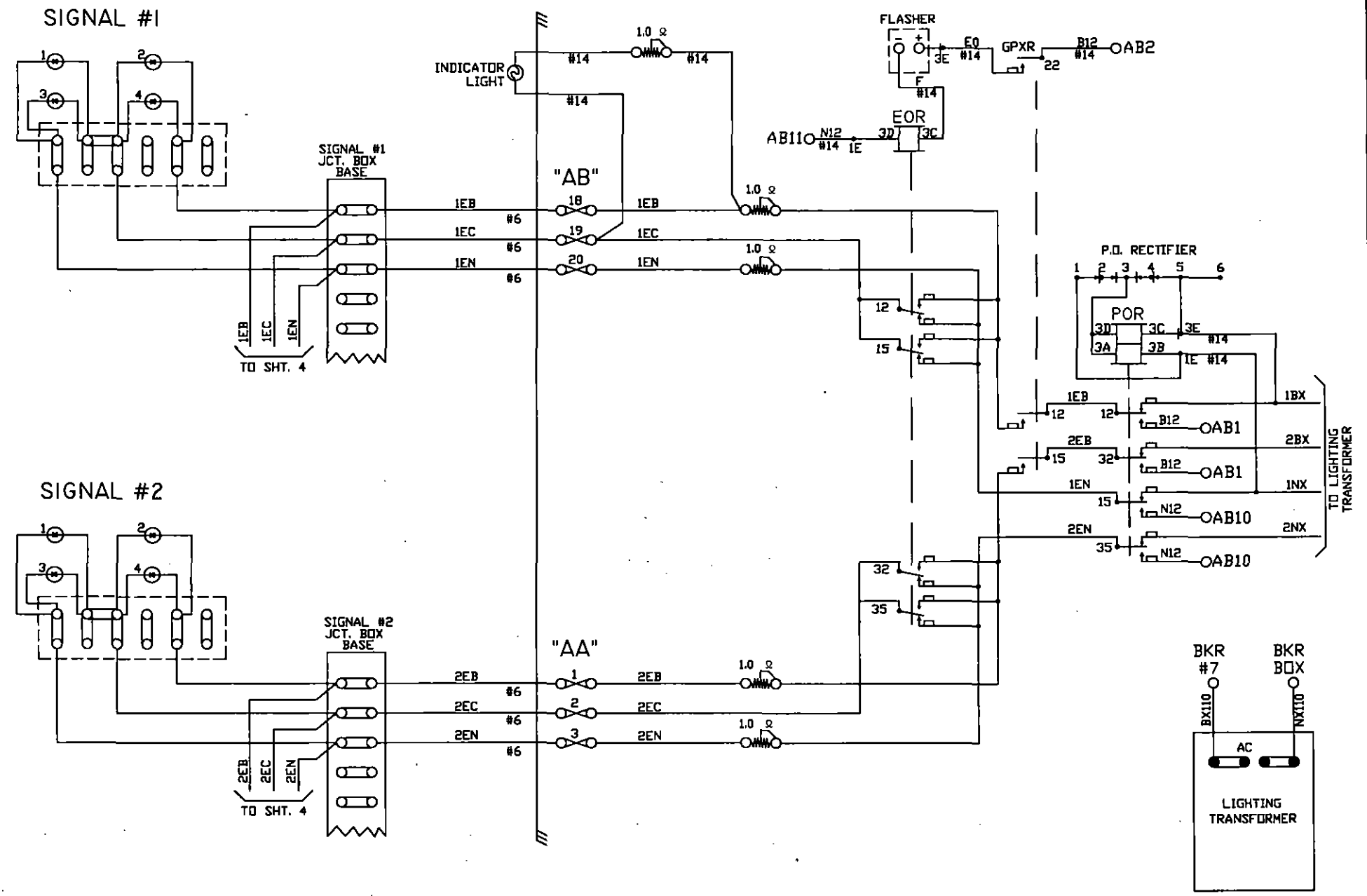
(410) 795-9601  
5965 EXCHANGE DRIVE  
SUITE 'D'  
SYKESVILLE, MD  
21784

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



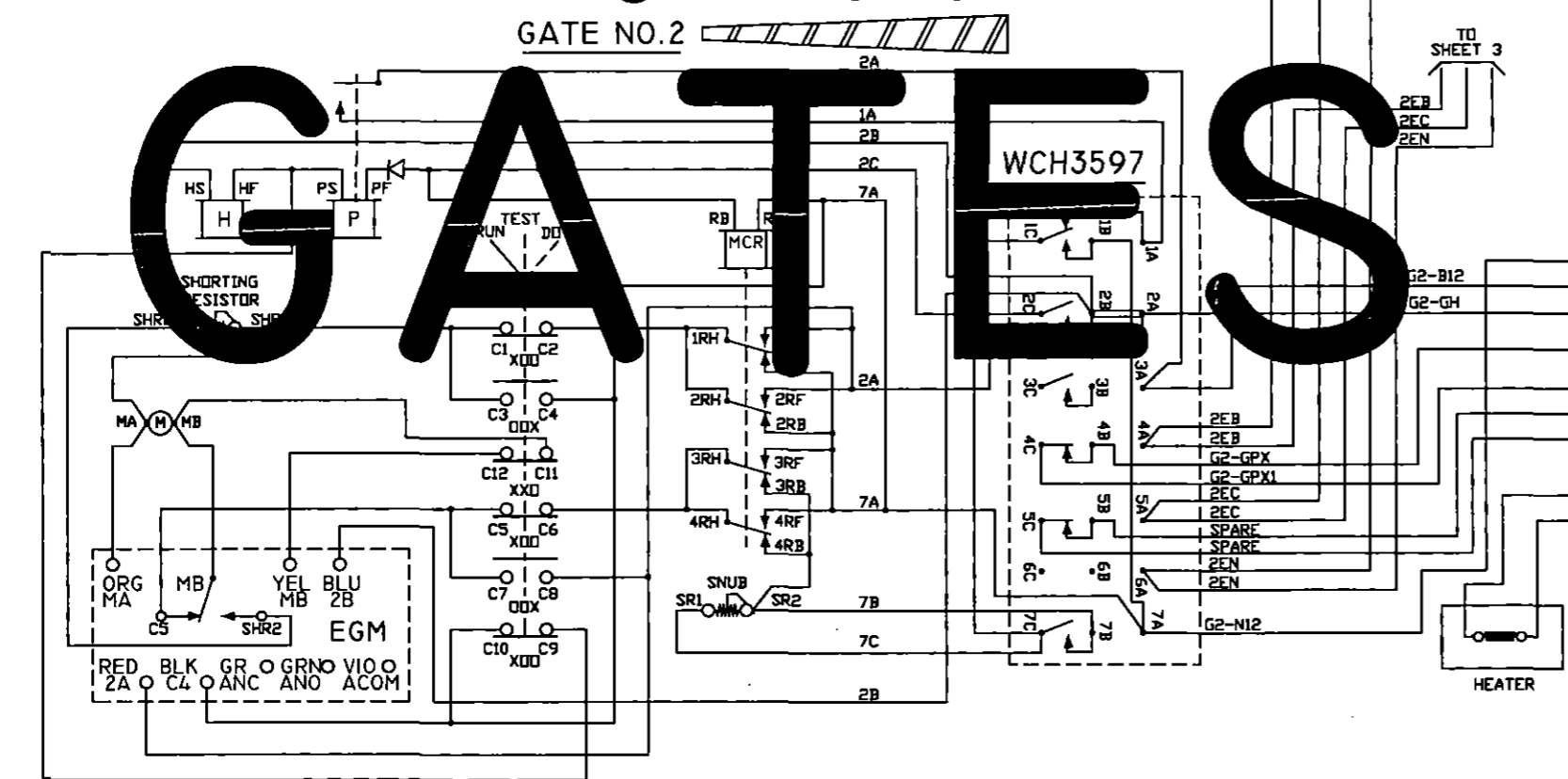
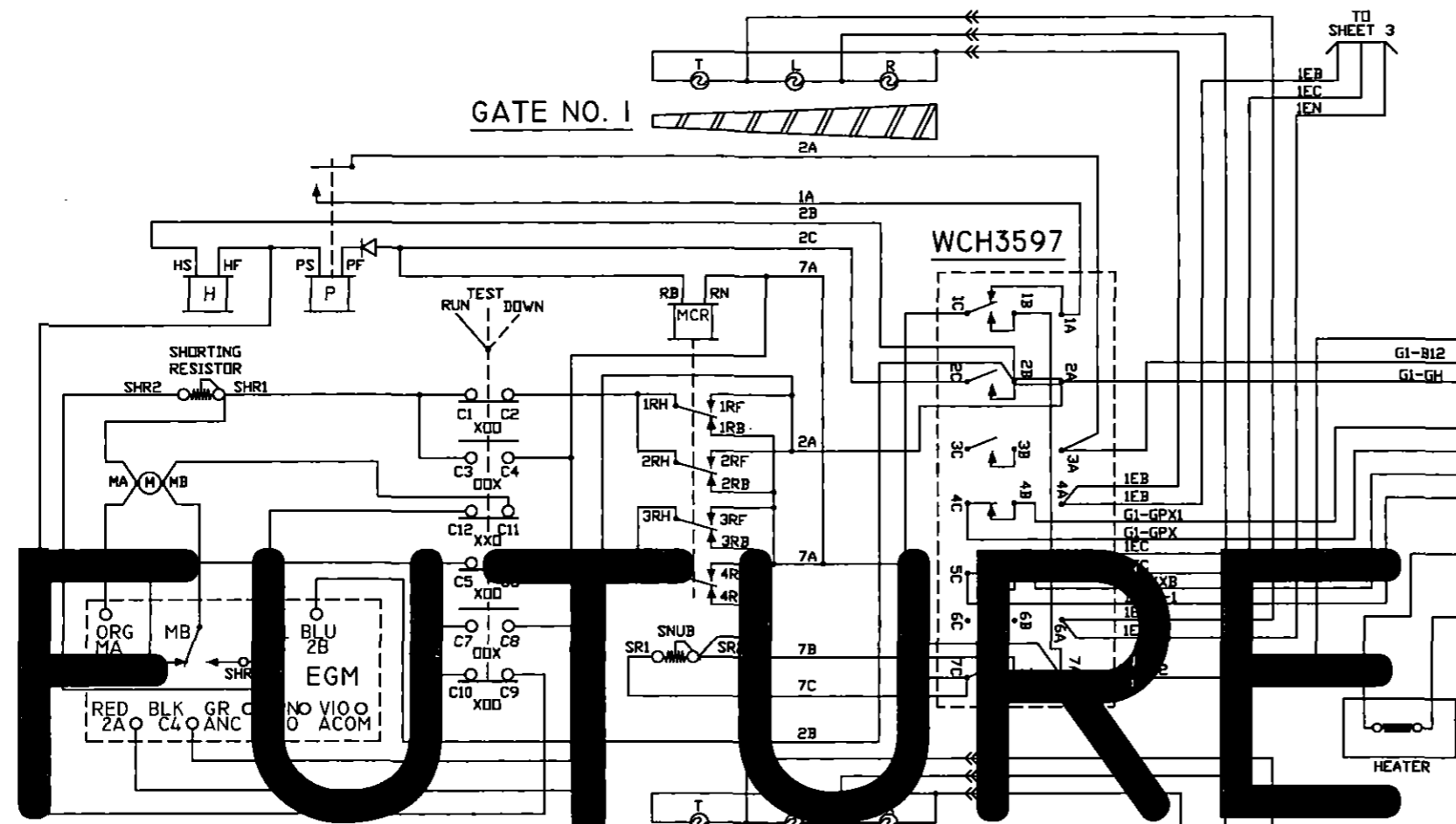
- NOTES:
1. ALL WIRE THIS SHEET IS #14 AWG FLEX UNLESS OTHERWISE NOTED.
  2. (TW) DENOTES TWISTED PAIR.

<b>DIAMONDBACK SIGNAL</b> (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	

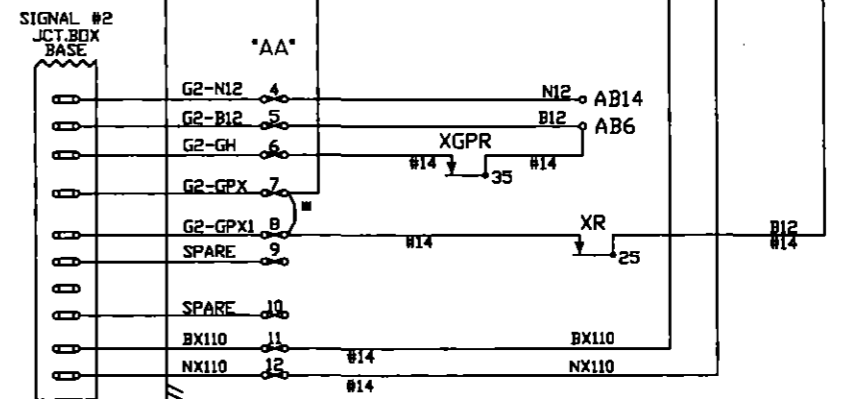
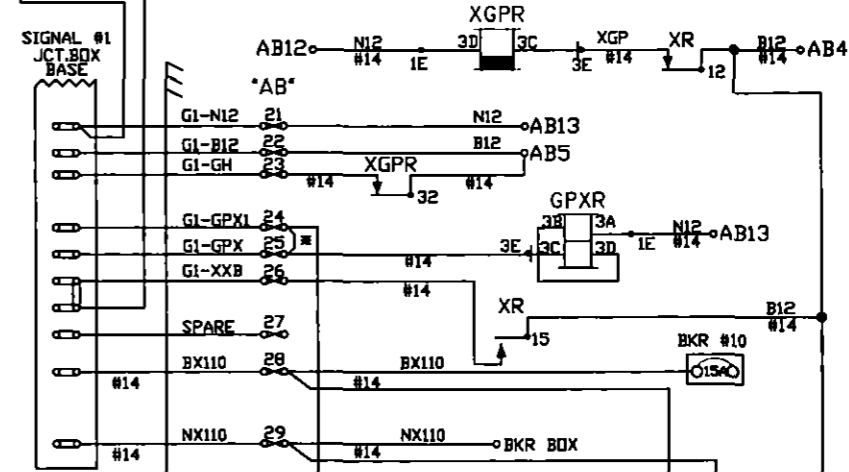


NOTE:  
ALL WIRE THIS SHEET IS #10 AWG. FLEX  
UNLESS OTHERWISE NOTED.

<b>DIAMONDBACK SIGNAL</b>  (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.



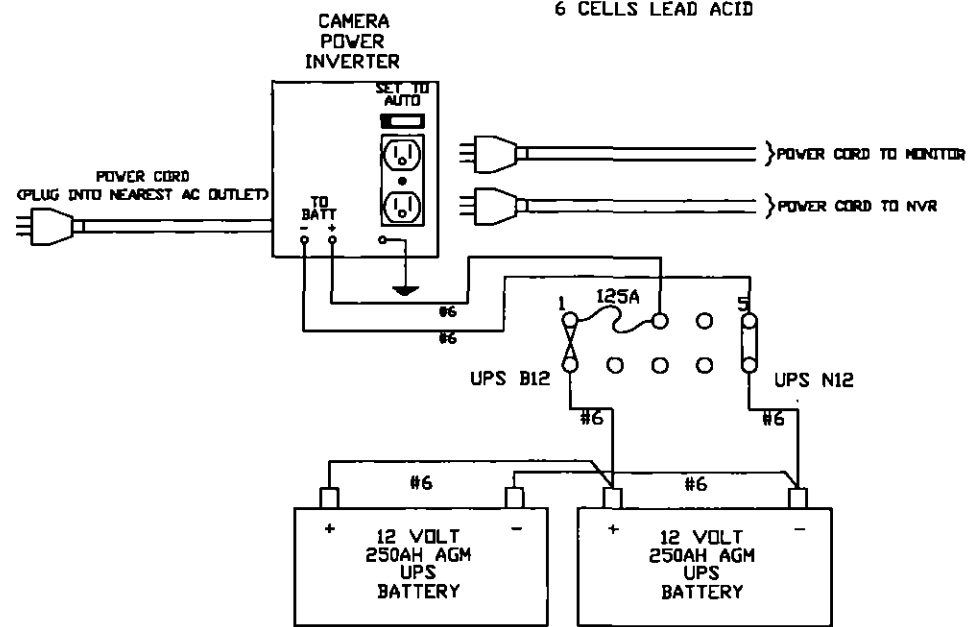
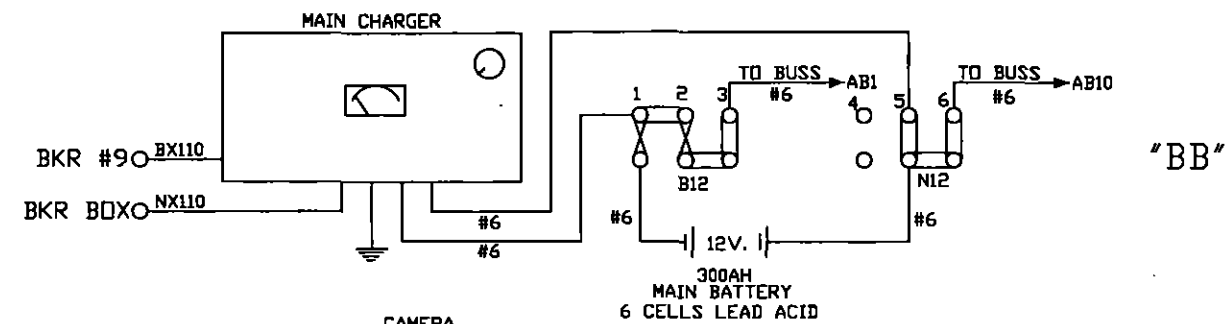
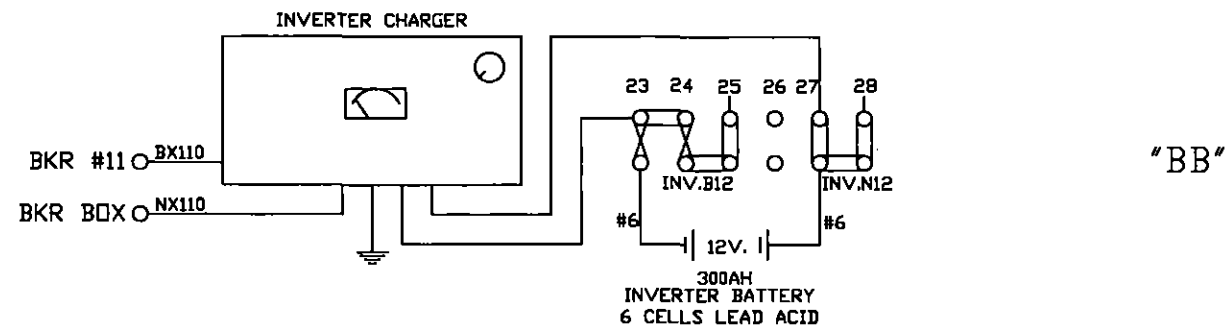
NOTES:  
ALL WIRE ON THIS SHEET IS #10AWG UNLESS OTHERWISE NOTED.  
\* = TEMPORARY 'GATE READY' JUMPER.

FUTURE

GATES

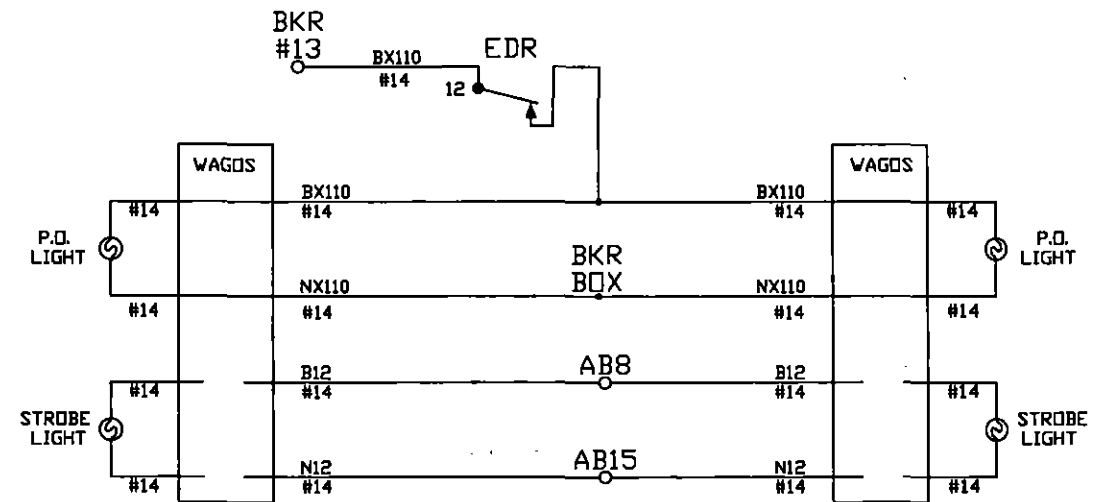
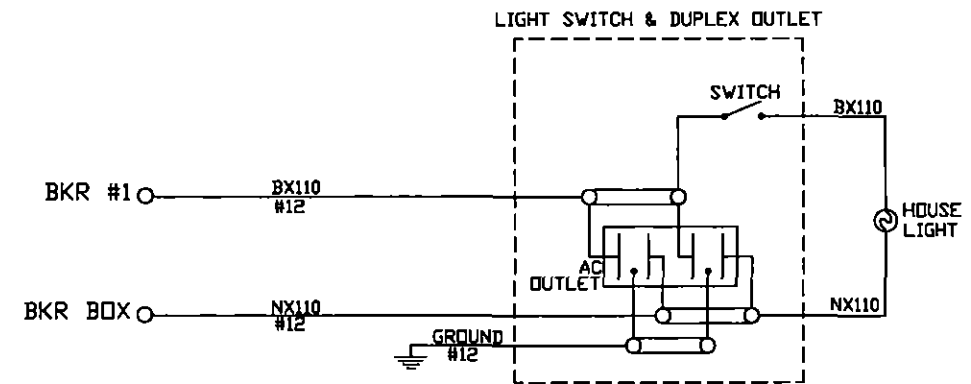
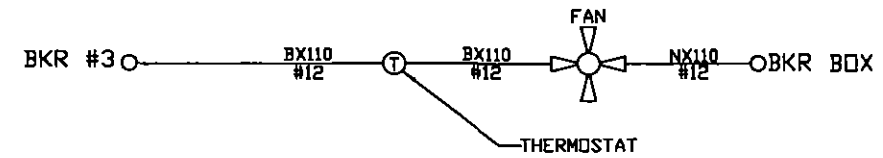
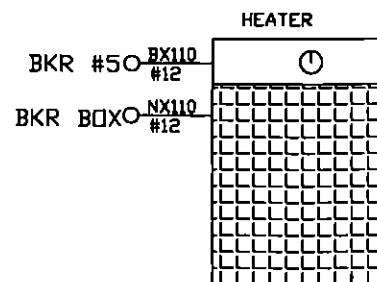
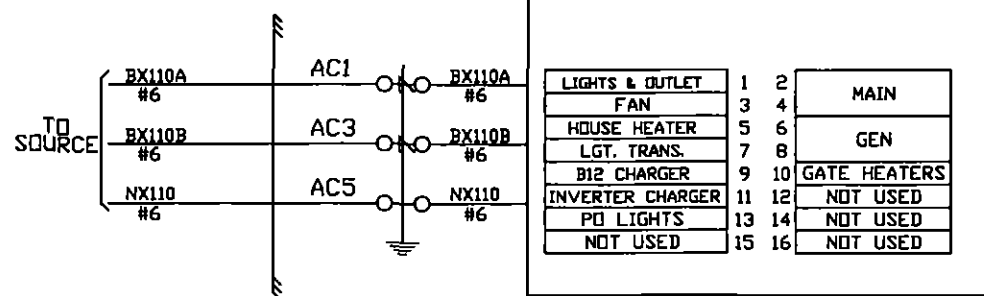
**DIAMONDBACK SIGNAL**  
(410) 795-9601  
5965 EXCHANGE DRIVE  
SUITE 'D'  
SYKESVILLE, MD  
21784

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



ERICD EPD 120/240 VENT FAN THERMOSTAT

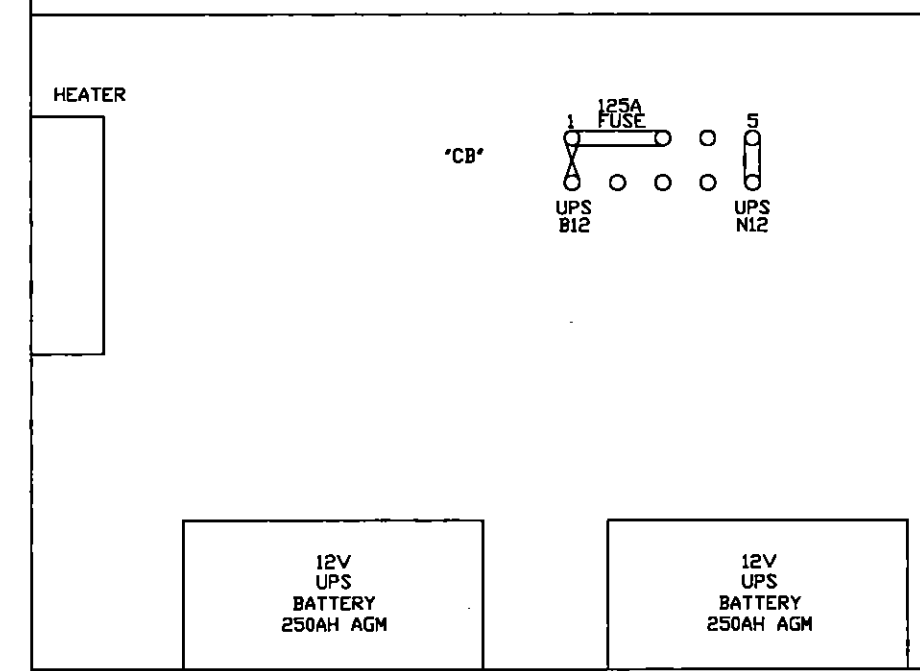
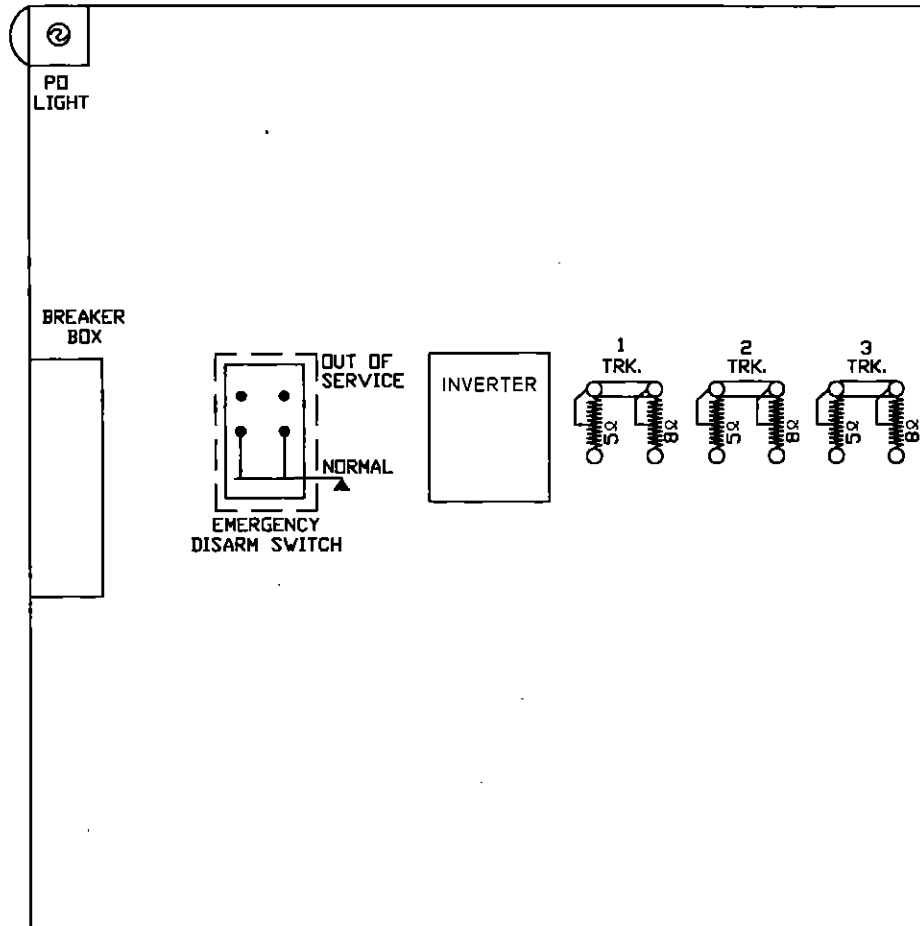
### BREAKER BOX



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

<b>DIAMONDBACK SIGNAL</b> (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"

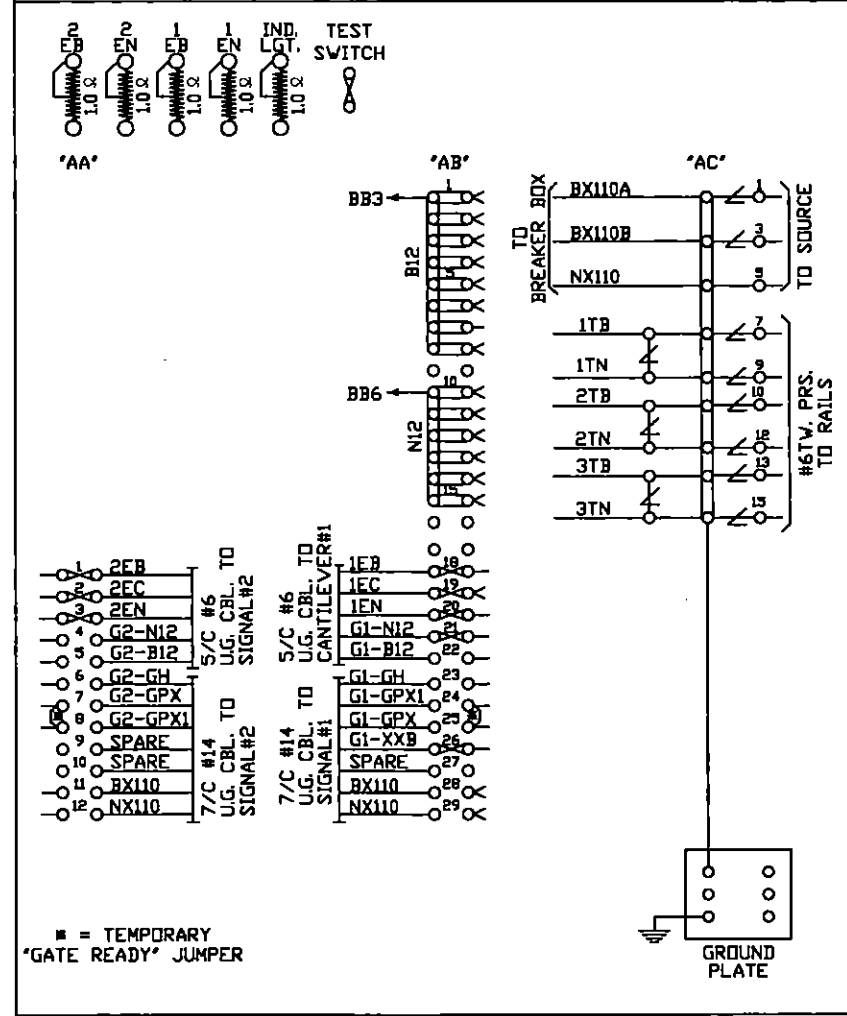


SIDE "A"

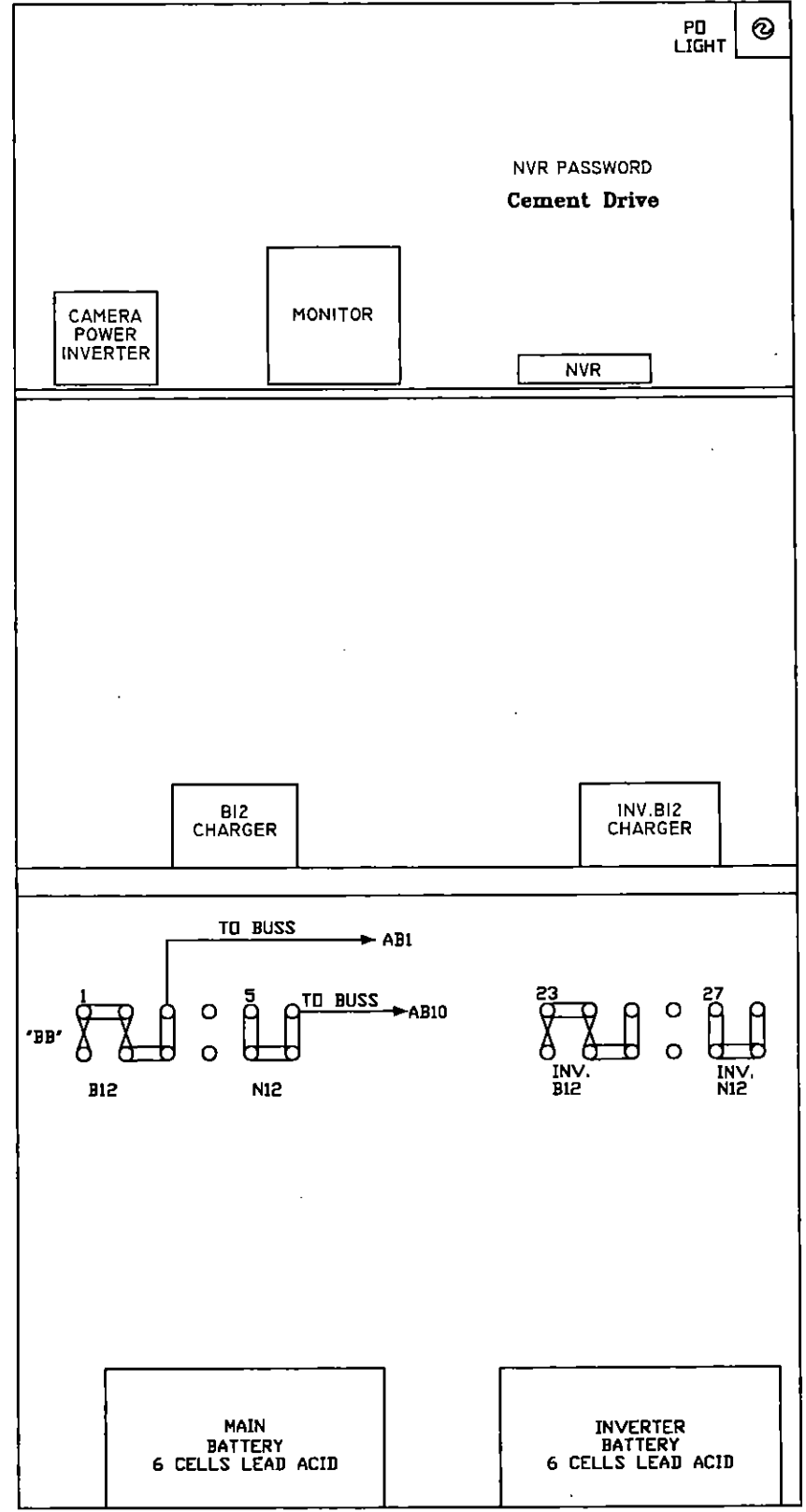
LIGHT TRANS.	POR	EOR	GPXR	XR	XGPR	EDR
	12 FB	12 FB	12 B	12 F	12	12 B
15 FB	15 FB	15 B	15	15	15	
22	32 FB	22 B	22	32 F	22	
25	35 FB	23	25 F	35 F	25 F	
32 FB		25	32		32 B	
35 FB		32	35 B		35	
		35				
A62-406	A62-671	A62-310	A62-262	A62-360	A62-262	
400800	400700-X	400020	400000	400200	400000	

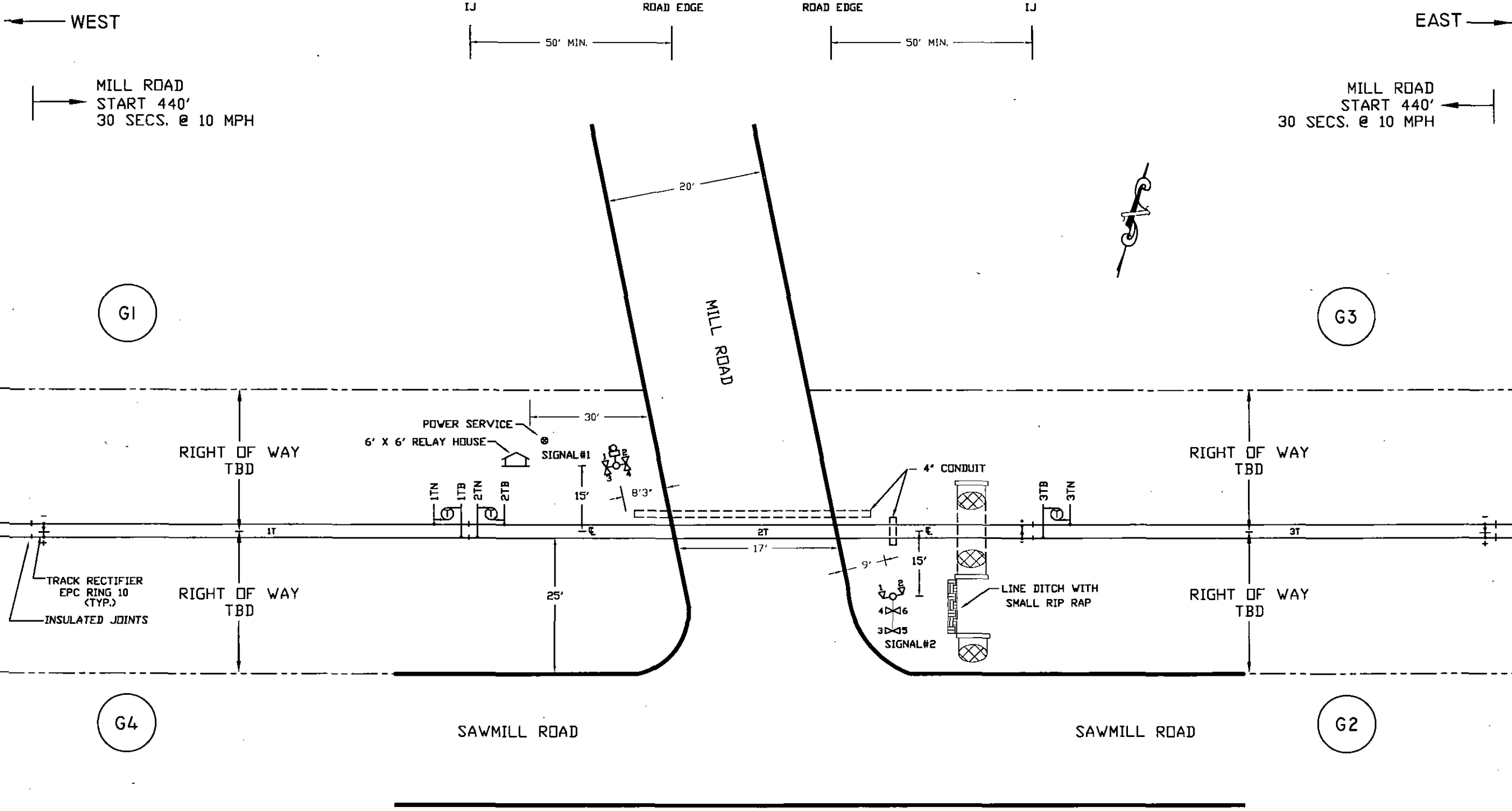
SR	TR	2 TR	3 TR	3 SR	SLT-000 STICK RELEASE TIMER (10 MIN)
12	12 F	12 F	12 F	12	
15	15 FB	15	15 FB	15 F	
22	22	22 B	22	22 B	
23	23	23 F	23	23	
25	25 F	25 F	25 F	25 F	
32	32	32	32	32	
35	35	35 B	35	35 B	
A62-357	A62-120	A62-120	A62-120	A62-357	
4002H	400510	400510	400510	4002H	



SIDE "B"



<b>DIAMONDBACK SIGNAL</b> (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 ←  
MILL ROAD  
START 440'  
30 SECS. @ 10 MPH

← MILL ROAD  
START 440'  
30 SECS. @ 10 MPH  
EAST →

IJ ROAD EDGE ROAD EDGE IJ  
50' MIN. 50' MIN.

G1

G3

G4

G2

**NOTES:**

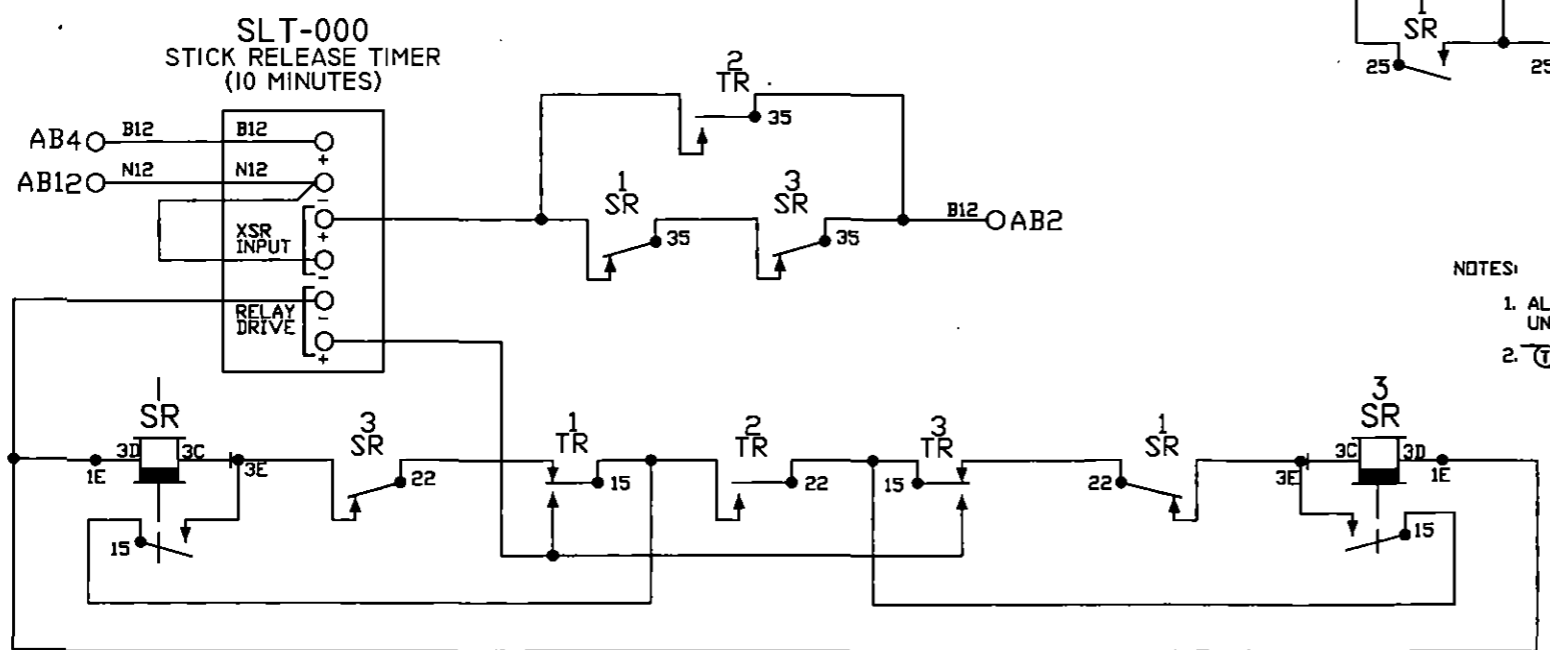
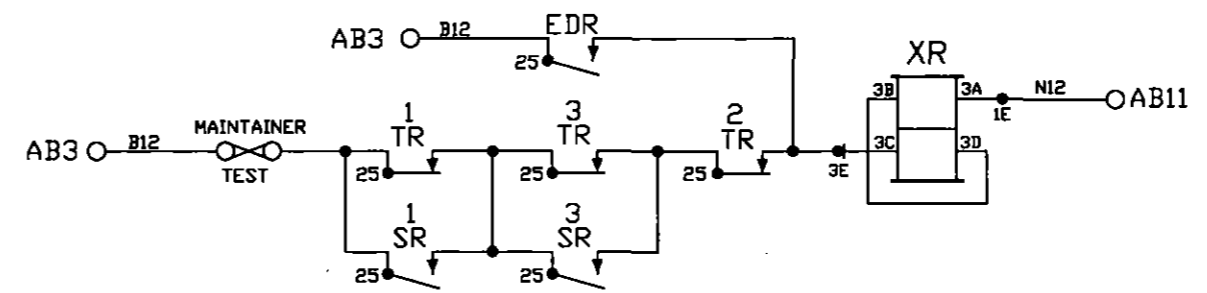
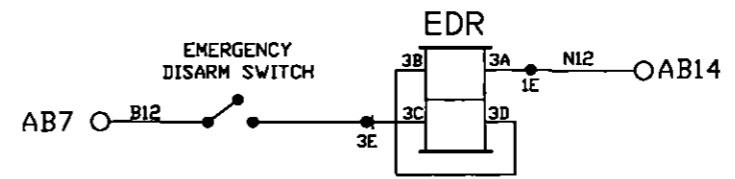
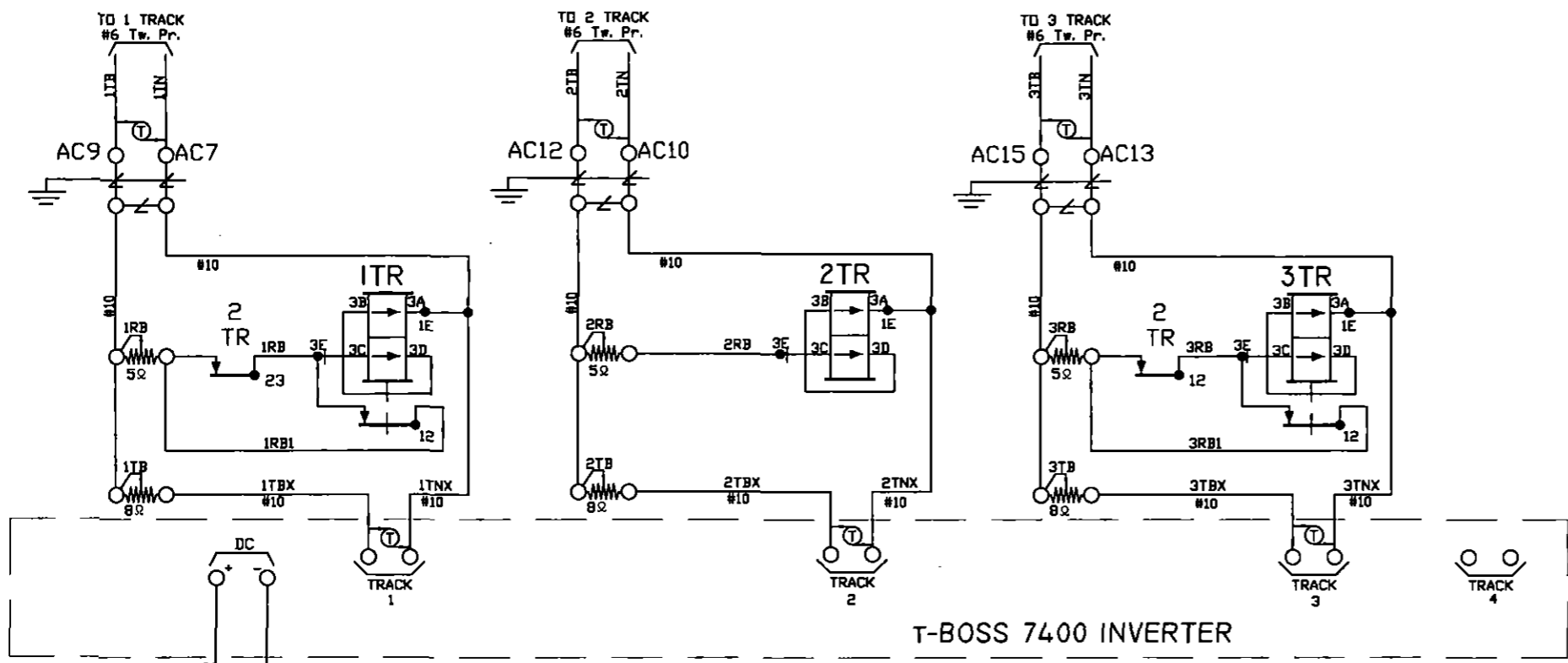
1. MATERIAL & INSTALLATION TO BE IN ACCORDANCE WITH MUTCD, STATE AND RAILROAD STANDARDS.
2. ALL DIMENSIONS ARE APPROXIMATE AND MAY VARY DUE TO ACTUAL FIELD CONDITIONS.
3. FLASHLIGHT SIGNALS & GATE LIGHTS TO BE LIGHT EMITTING DIODE ASSEMBLIES, (LED).
4. (T) DENOTES TWIST PAIR.

**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

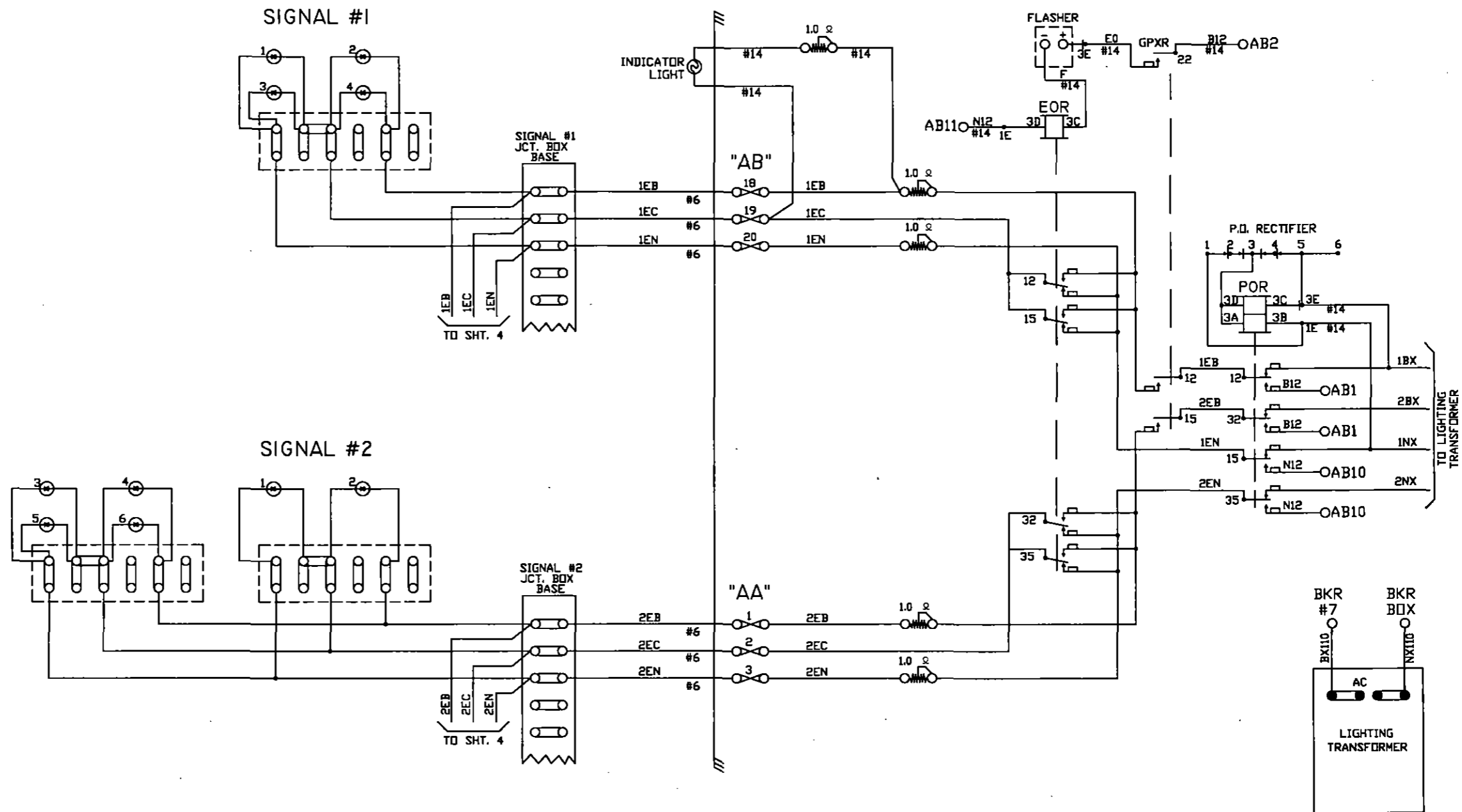
RCVD PUC SEC BUR  
FEB 23 2023 AM 10:54

<b>DIAMONDBACK SIGNAL</b> (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



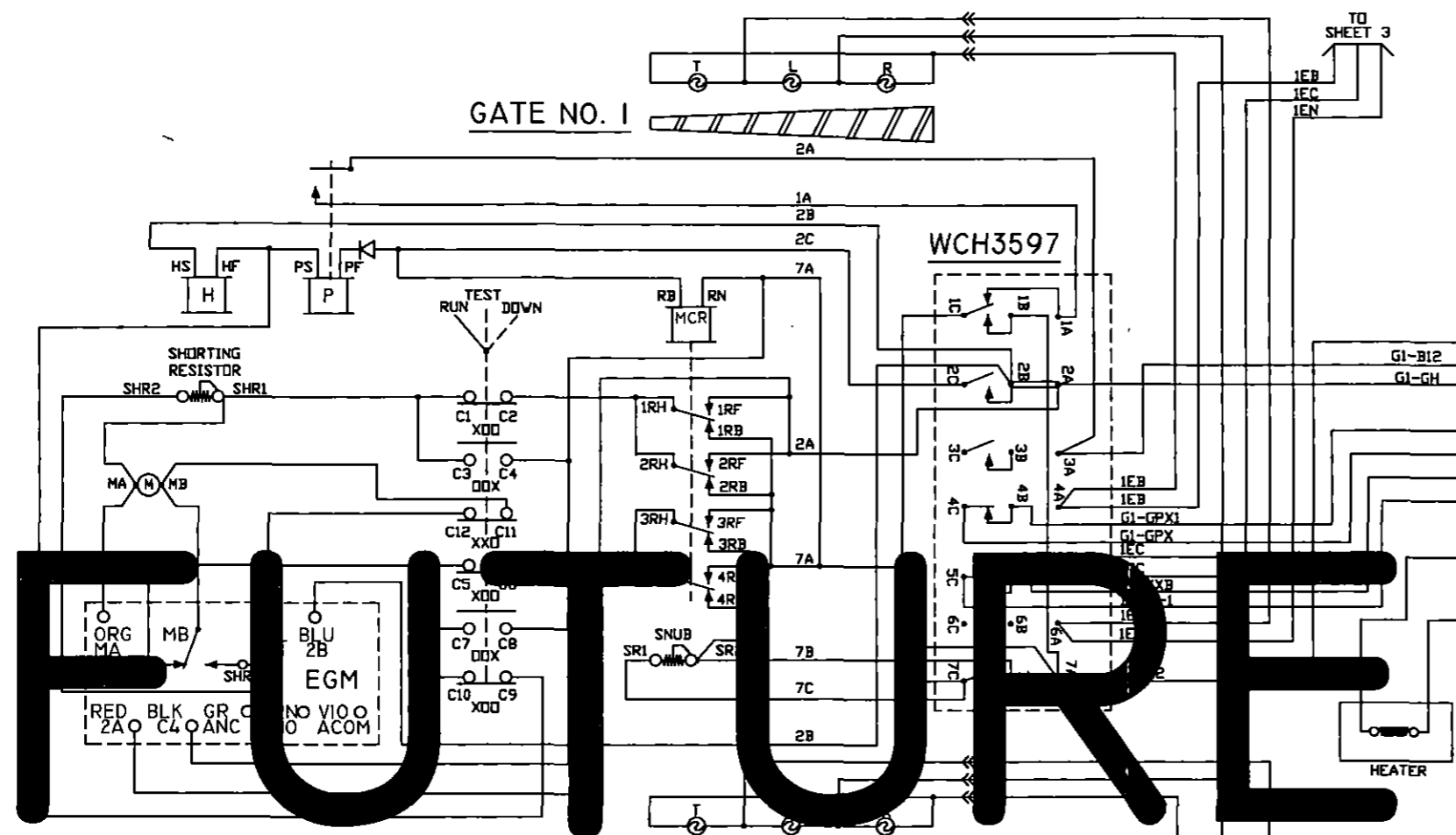
- NOTES:
1. ALL WIRE THIS SHEET IS #14 AWG FLEX UNLESS OTHERWISE NOTED.
  2.  $\text{\textcircled{T}}$  DENOTES TWISTED PAIR.

<b>DIAMONDBACK SIGNAL</b> (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	

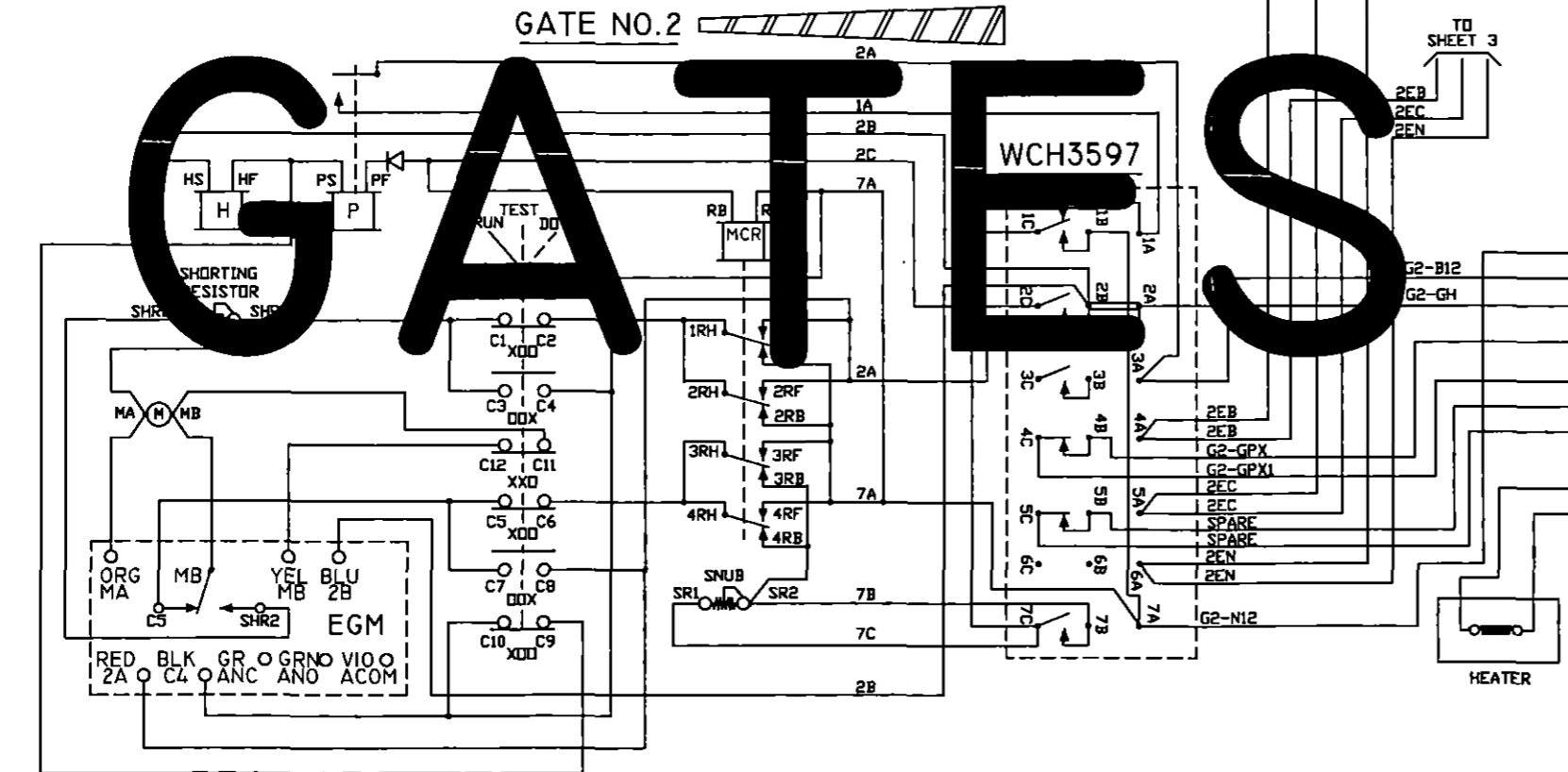


NOTE:  
ALL WIRE THIS SHEET IS #10 AWG. FLEX  
UNLESS OTHERWISE NOTED.

<b>DIAMONDBACK SIGNAL</b>  (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	



GATE NO. 1

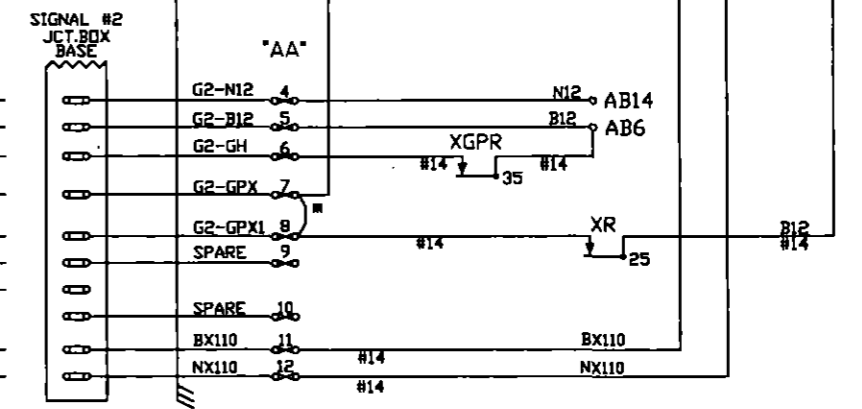
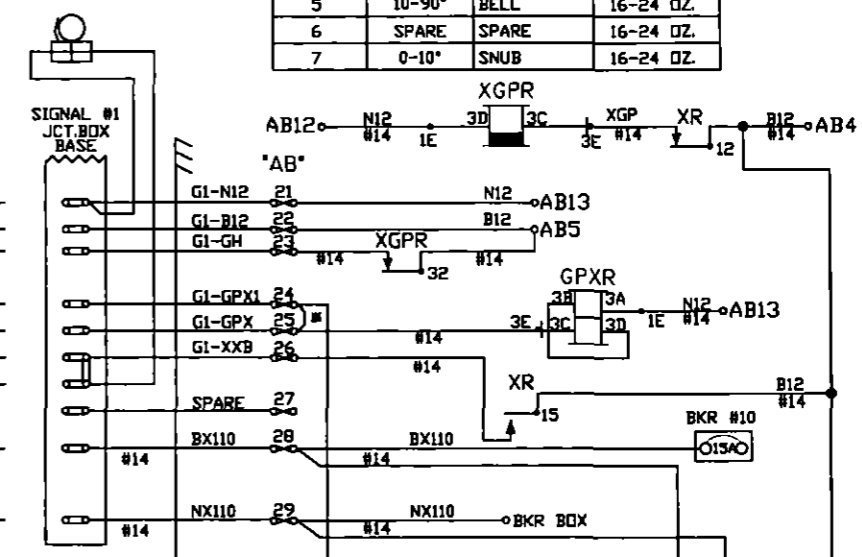


GATE NO. 2

# FUTURE

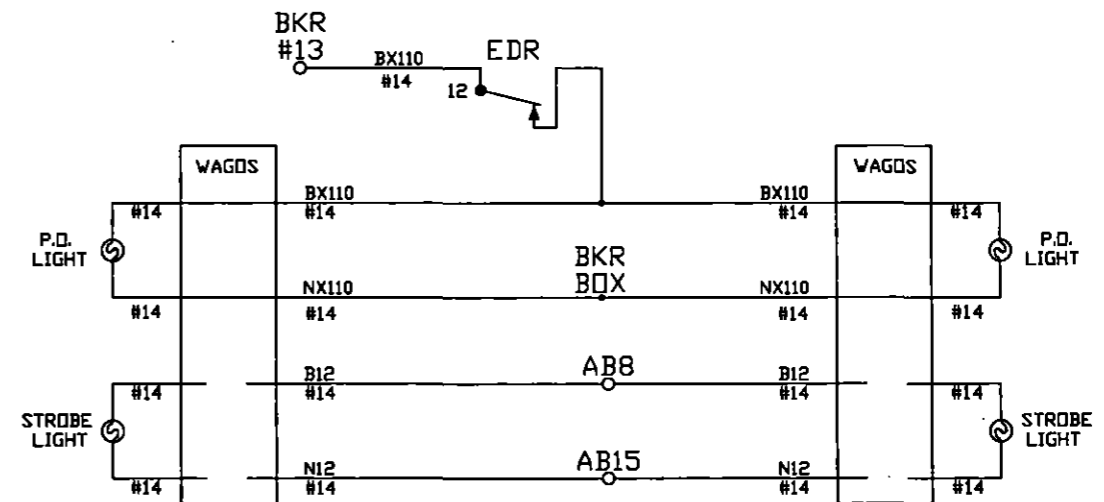
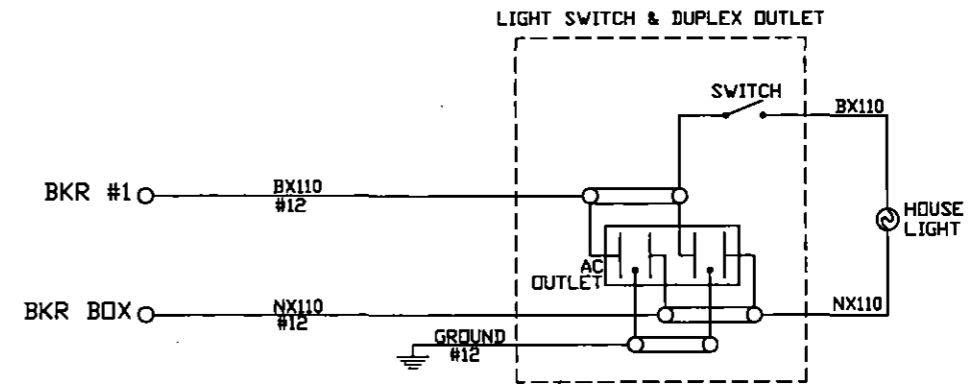
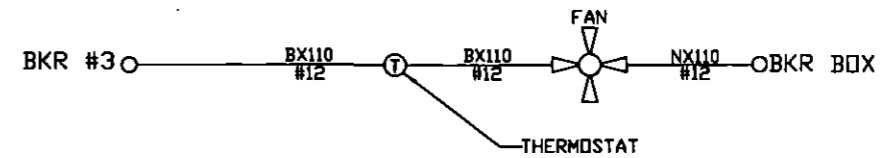
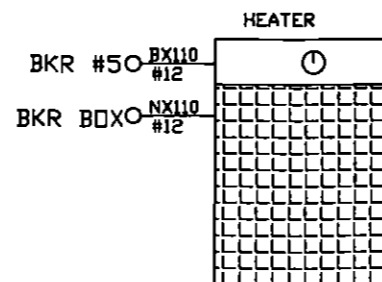
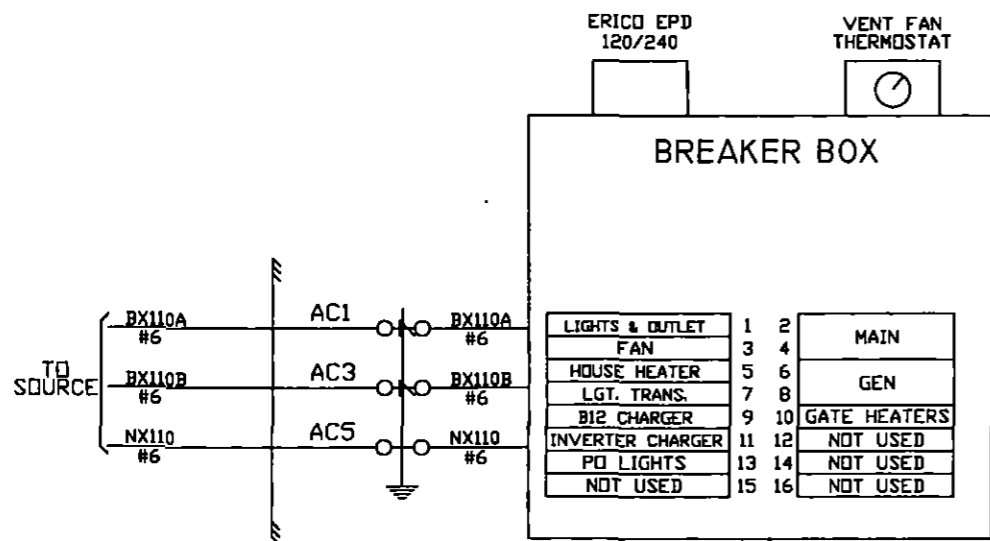
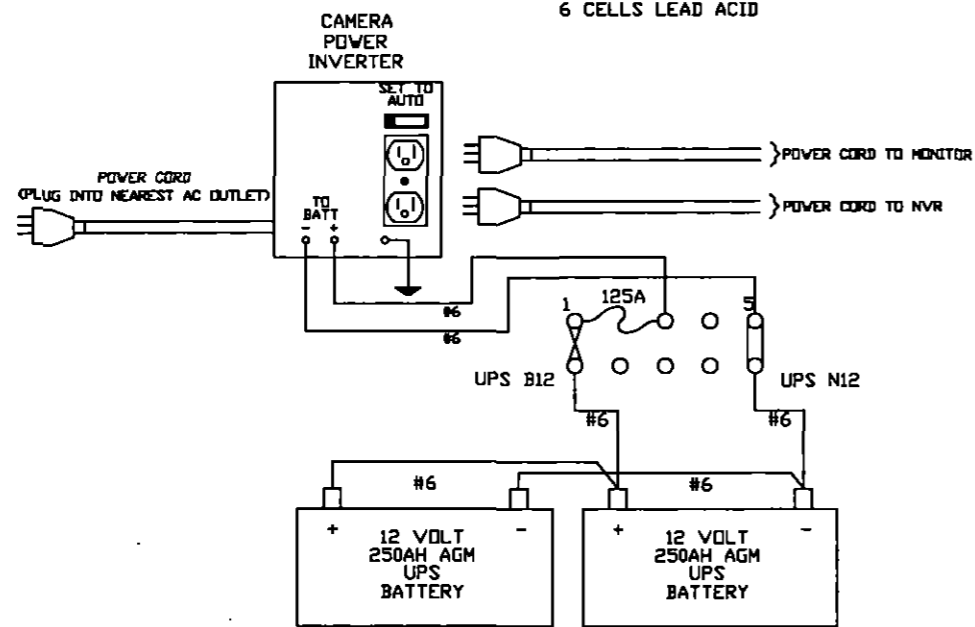
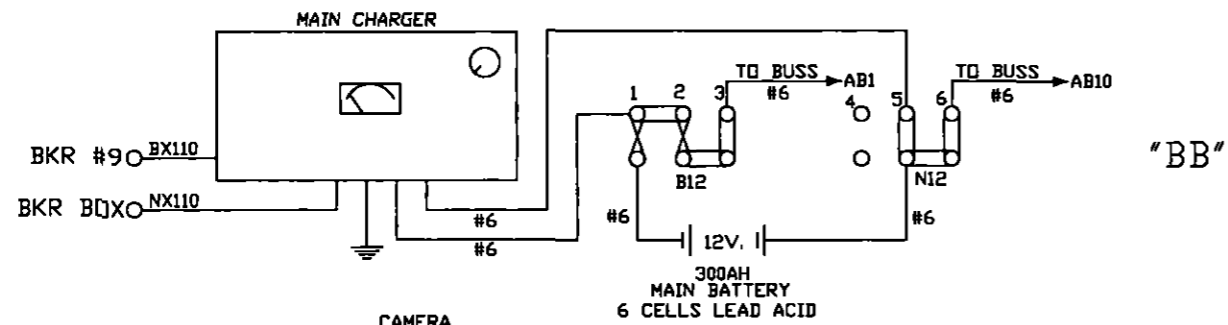
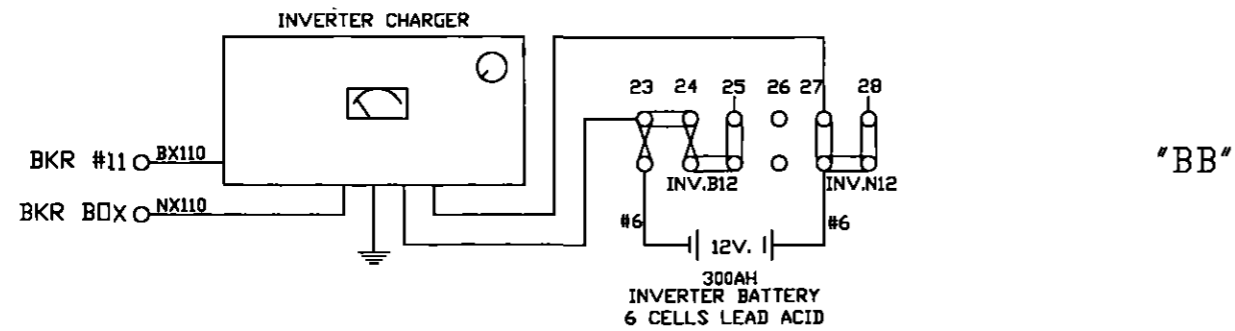
# GATES

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.

<b>DIAMONDBACK SIGNAL</b> (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

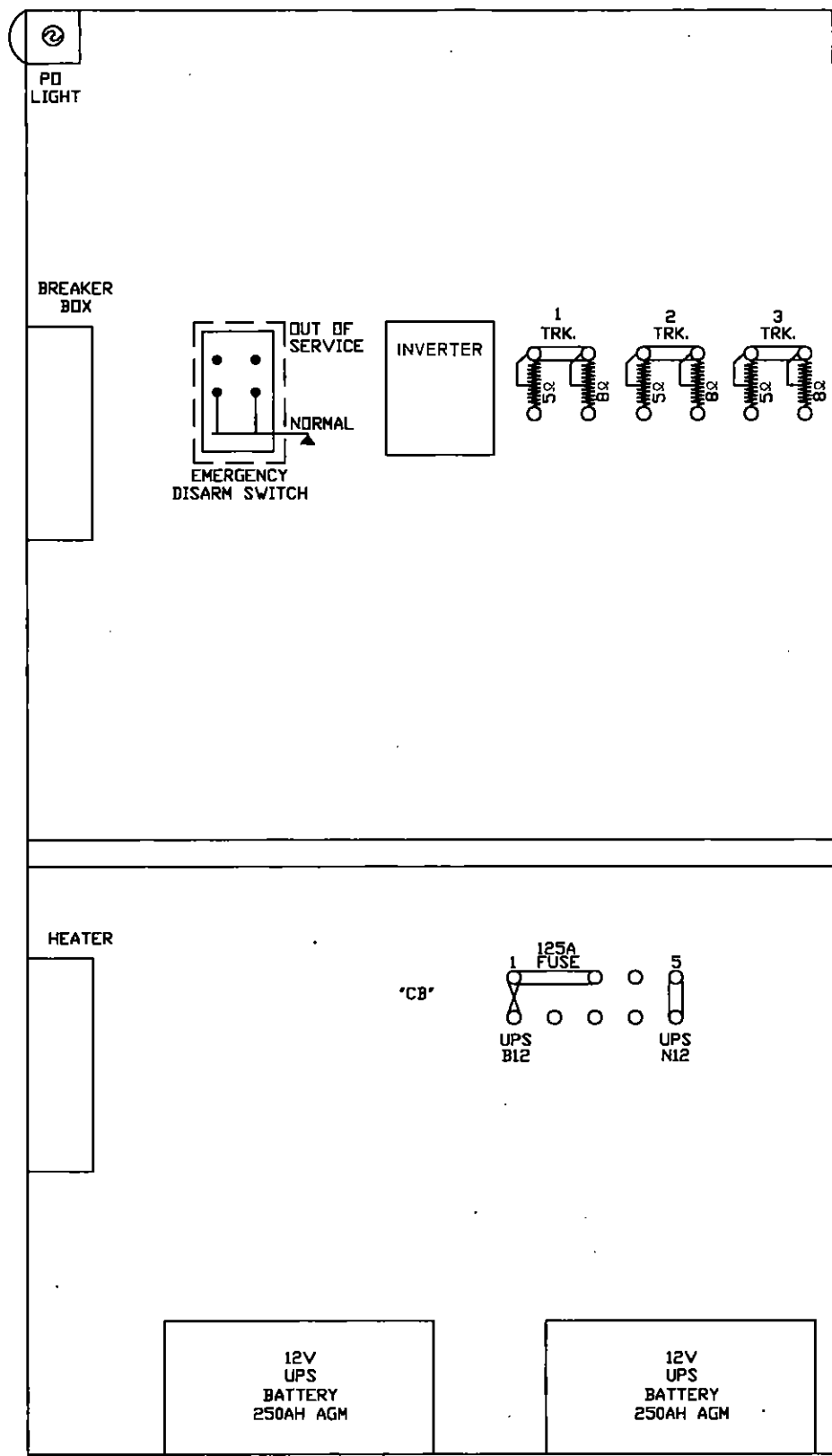


NOTE:  
ALL WIRE THIS SHEET IS #10 AWG FLEX  
UNLESS OTHERWISE NOTED.

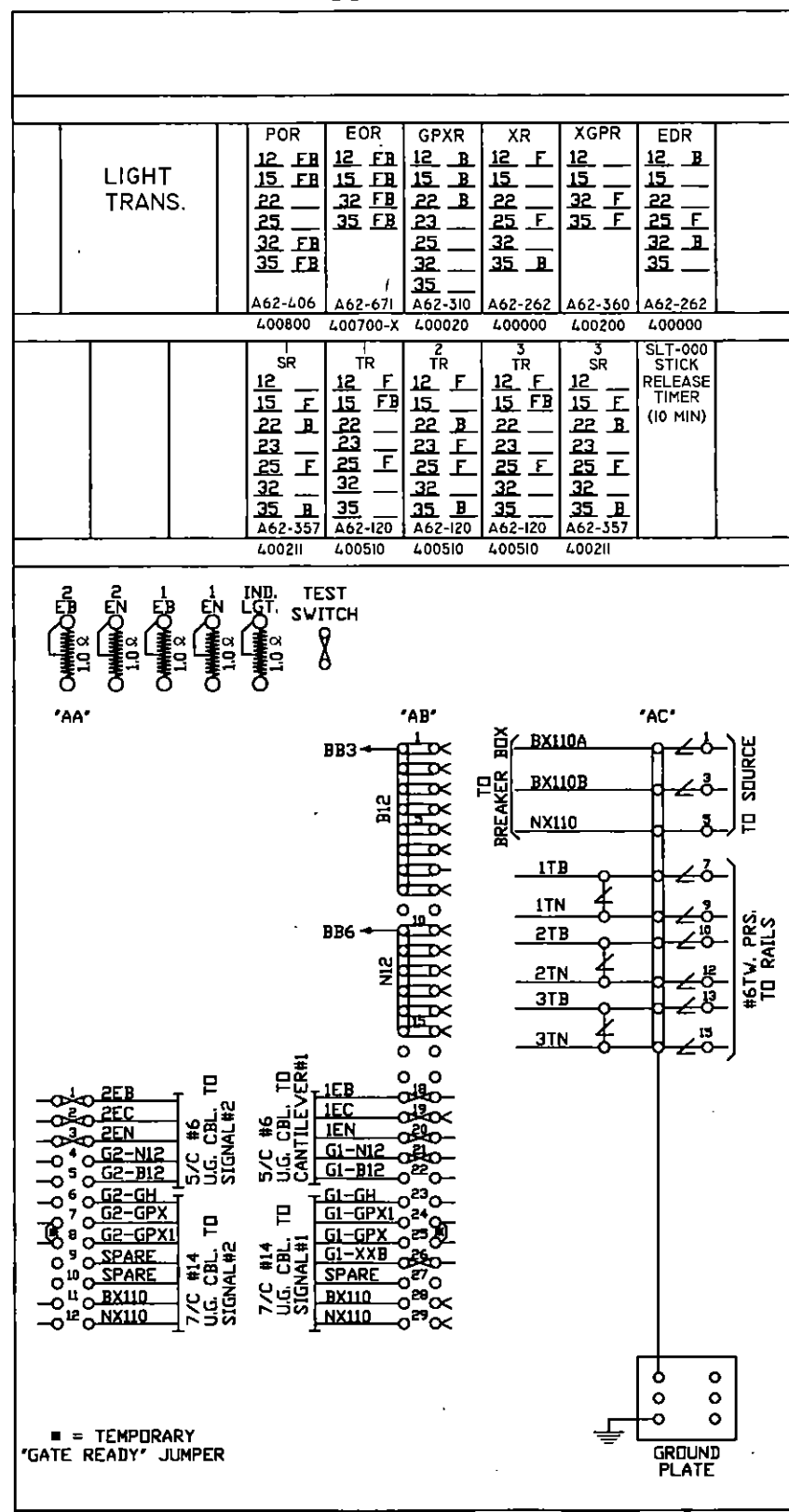
AS WIRED AS INSTALLED

<b>DIAMONDBACK SIGNAL</b>	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

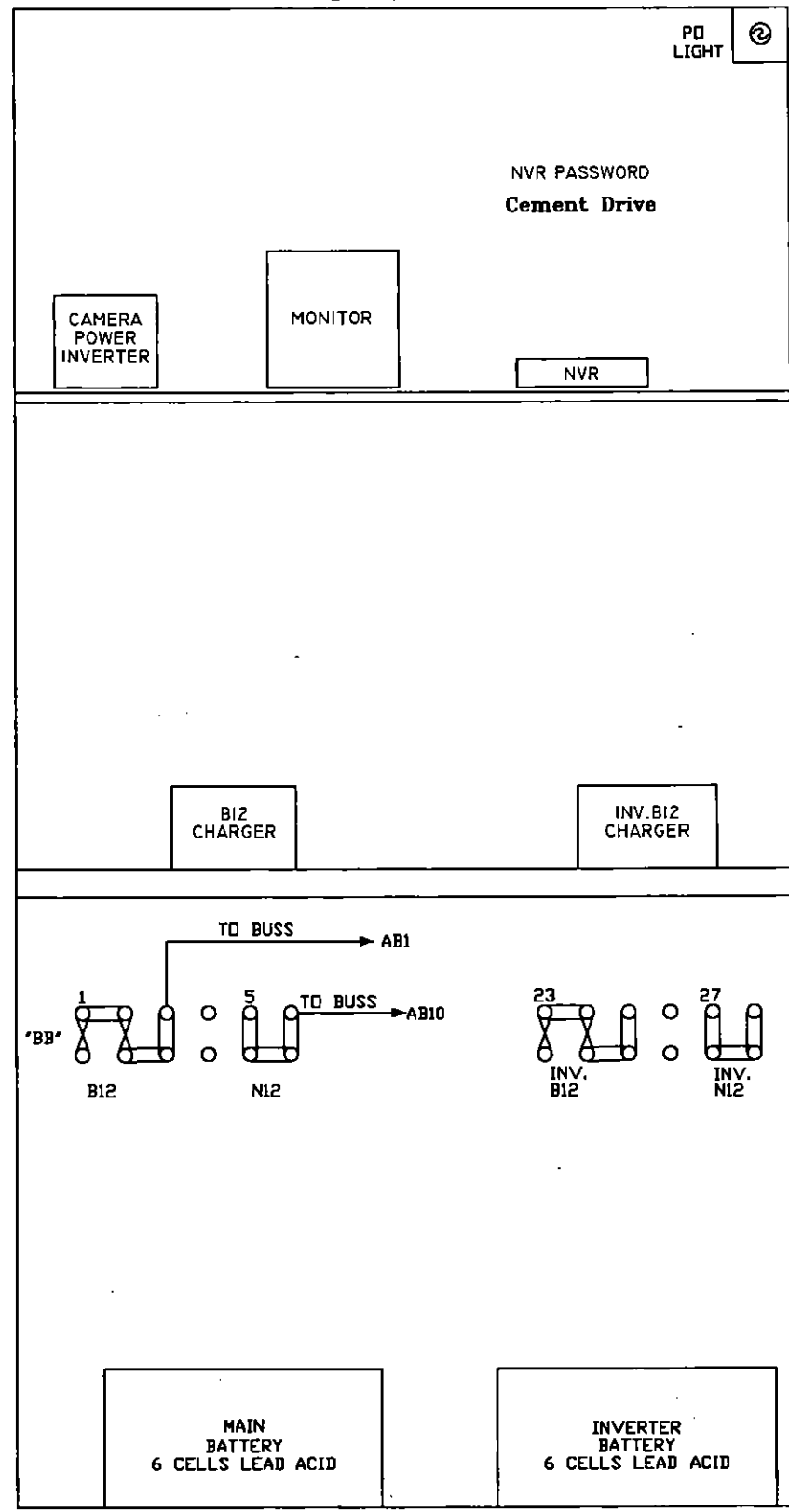
SIDE "C"



SIDE "A"



SIDE "B"



<b>DIAMONDBACK SIGNAL</b> (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

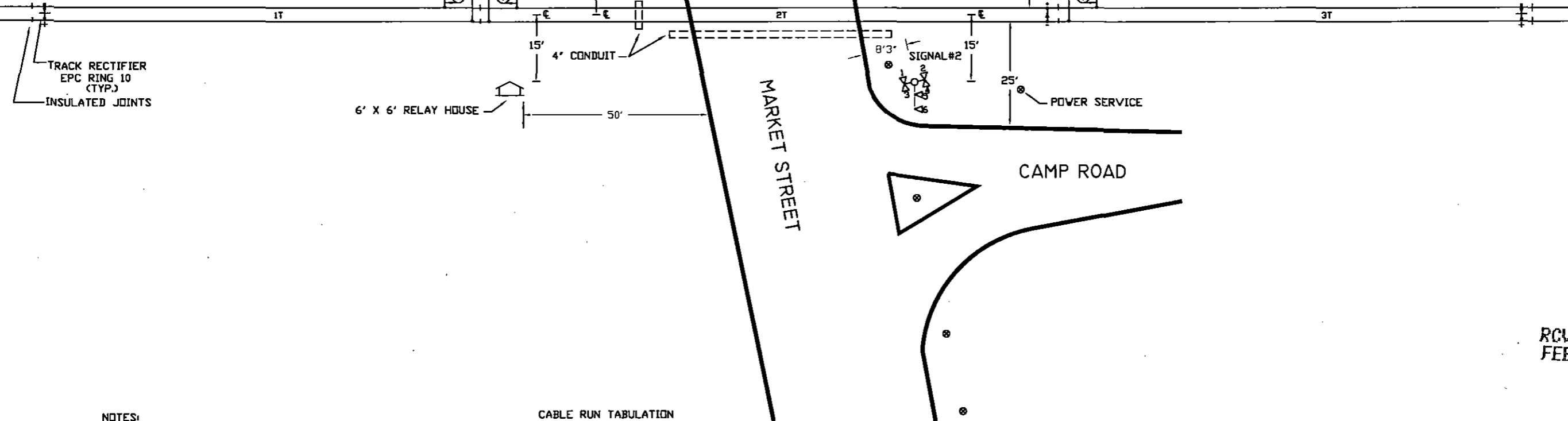
MARKET STREET  
START 440'  
30 SECS. @ 10 MPH



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.

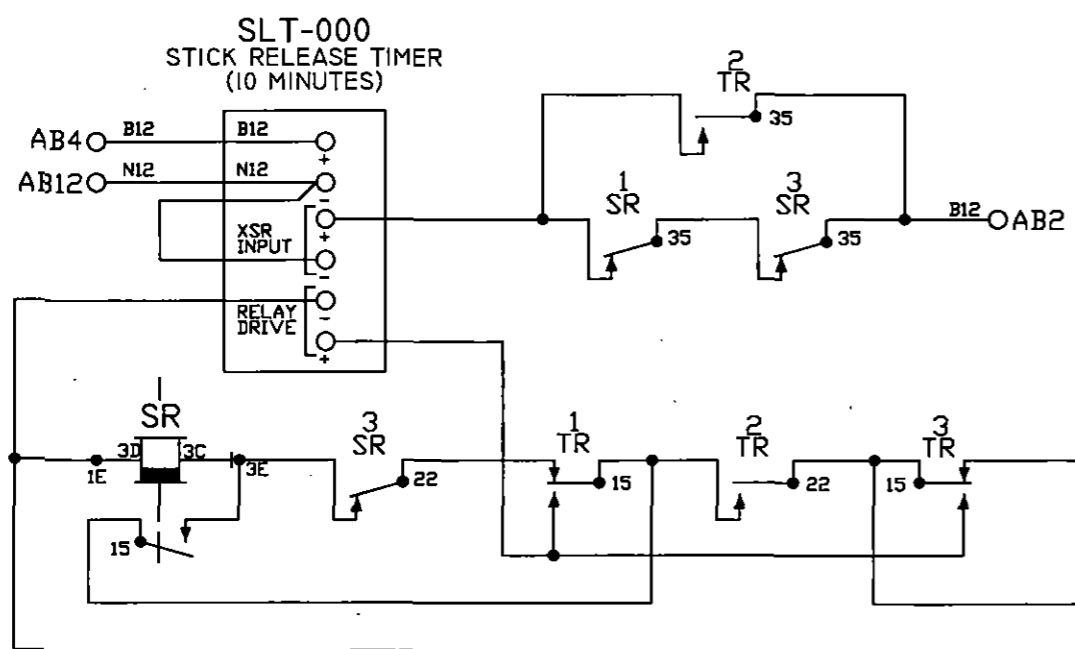
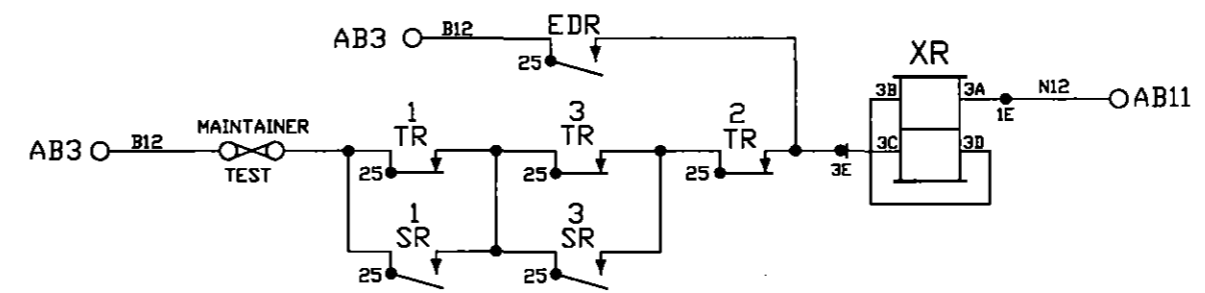
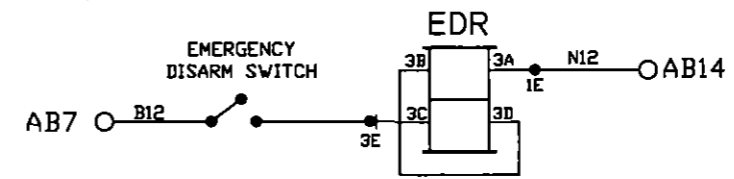
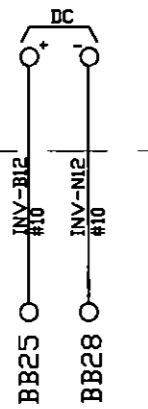
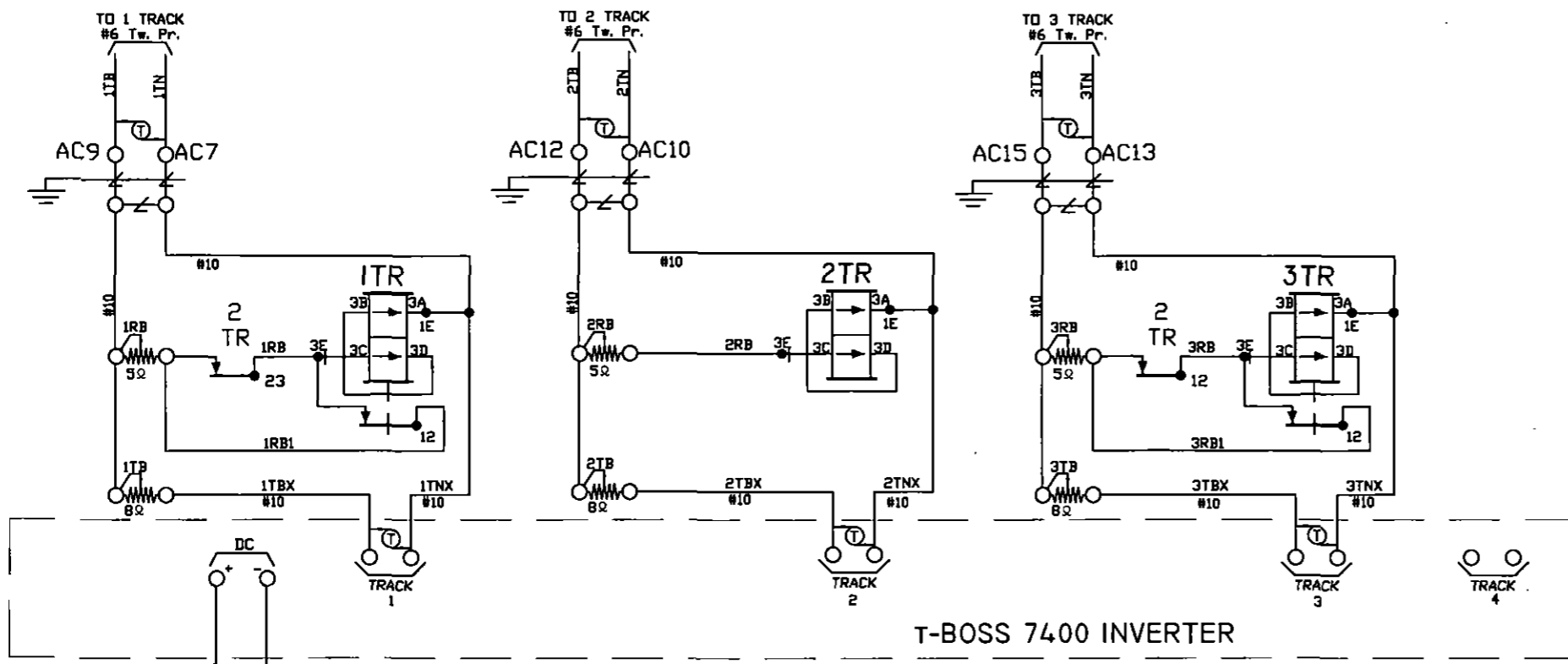
**CABLE RUN TABULATION**

- 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

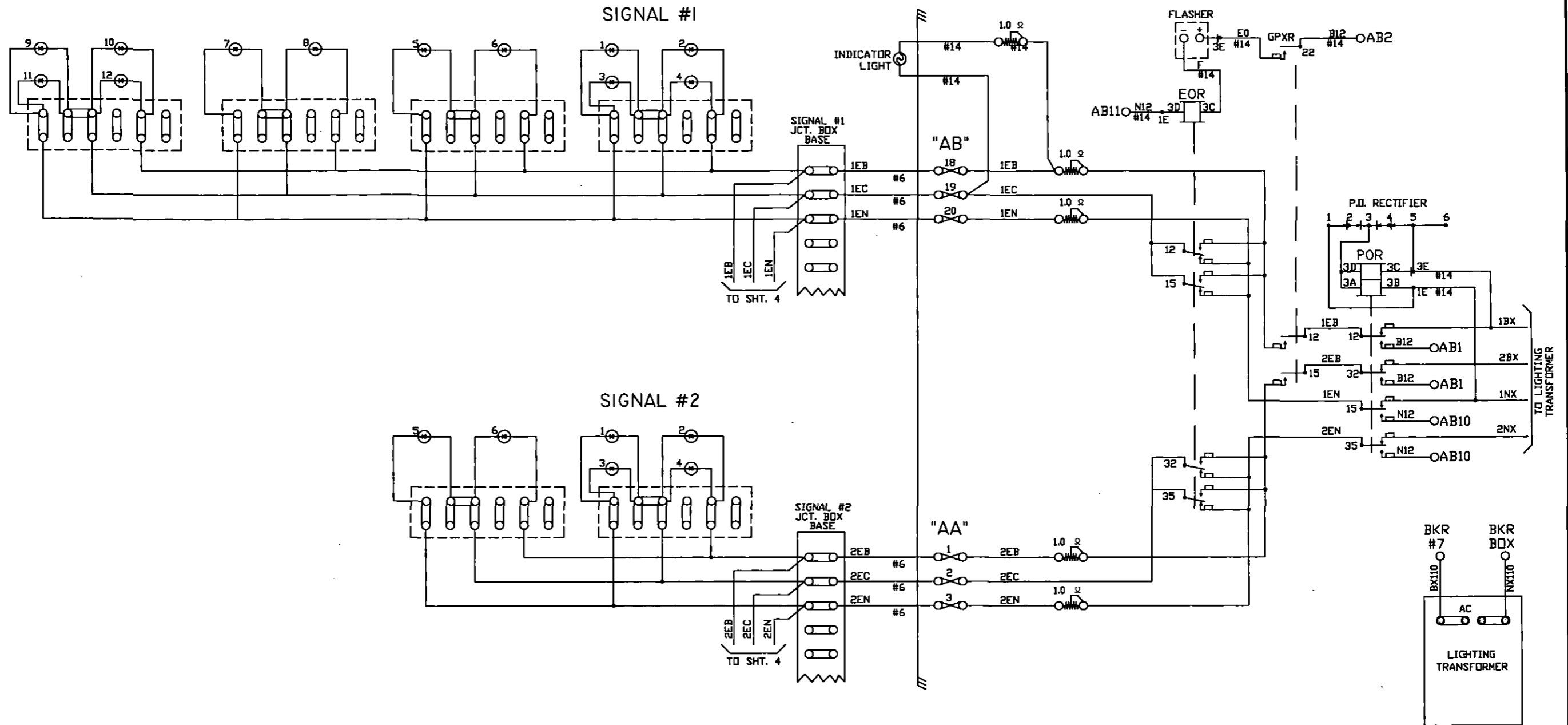
AS WIRED		AS INSTALLED	
SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
DATE: 03/01/2022		REVISED:	
MARKET STREET - DOT # 591 722L - M.P. 7.10 SNYDERTOWN, NORTHUMBERLAND COUNTY, PA			
TRACK & CABLE PLAN			DRAWING NUMBER 7.10

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



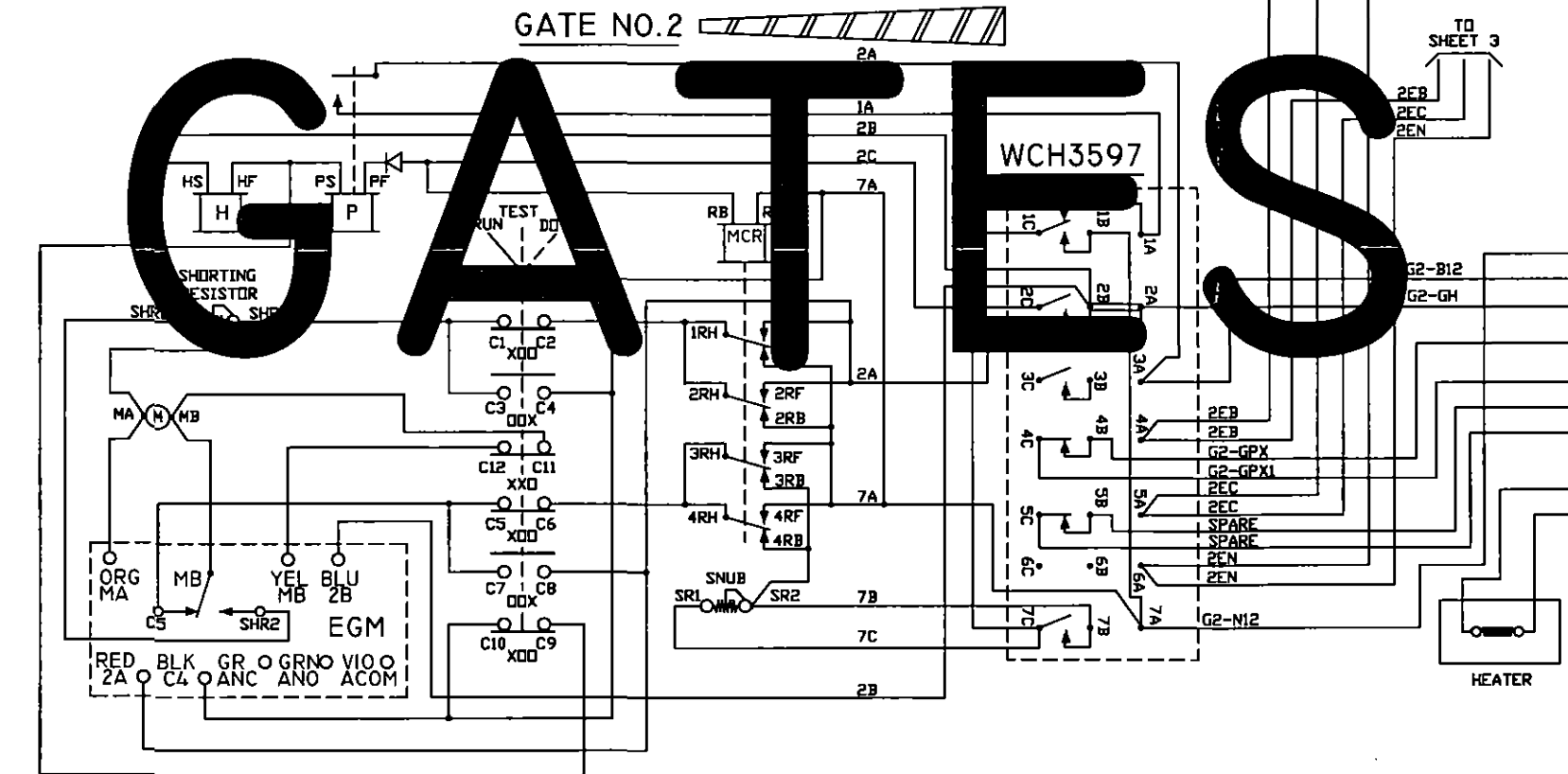
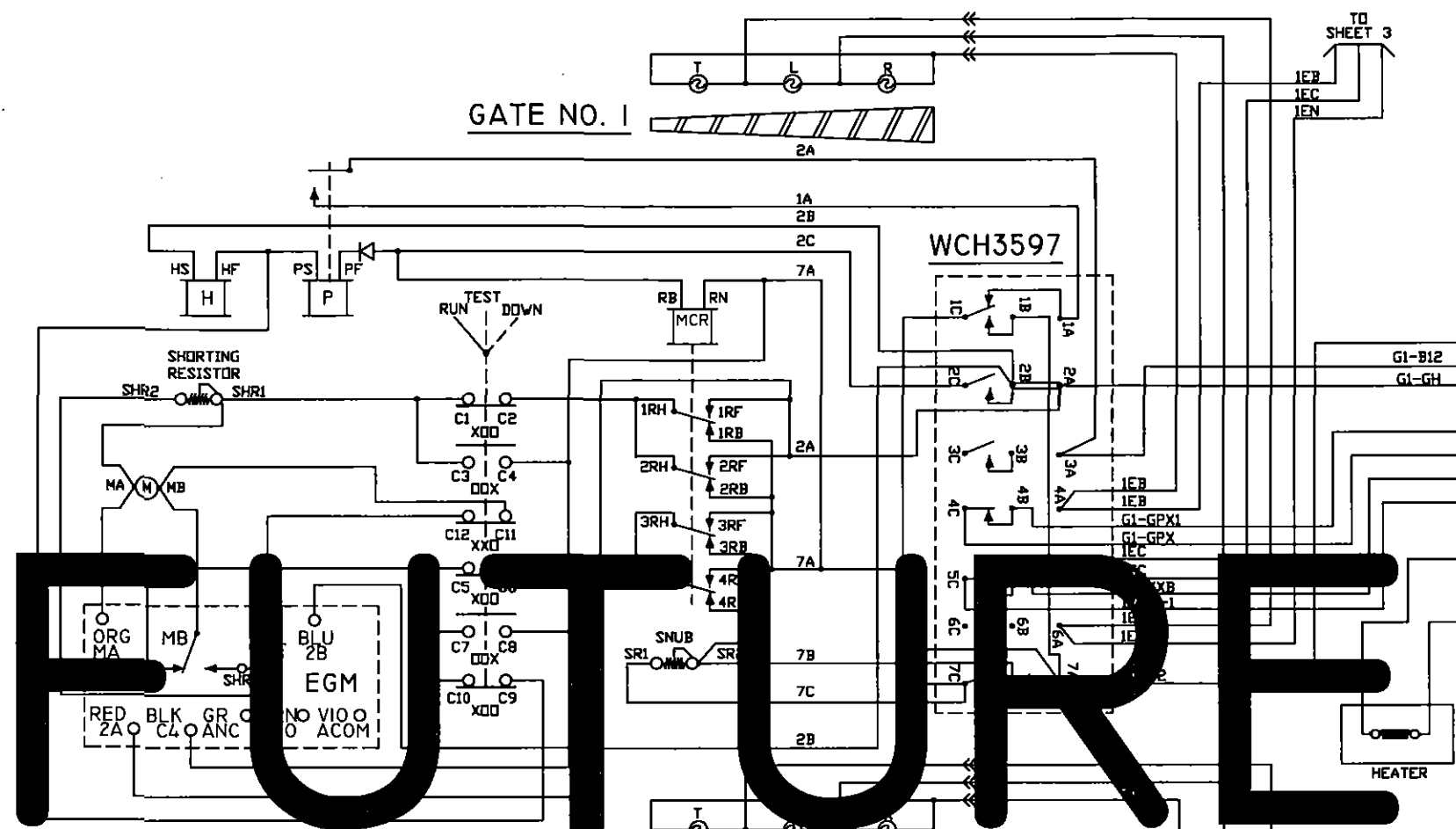
- NOTES:
1. ALL WIRE THIS SHEET IS #14 AWG FLEX UNLESS OTHERWISE NOTED.
  2. (T) DENOTES TWISTED PAIR.

<b>DIAMONDBACK SIGNAL</b> (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

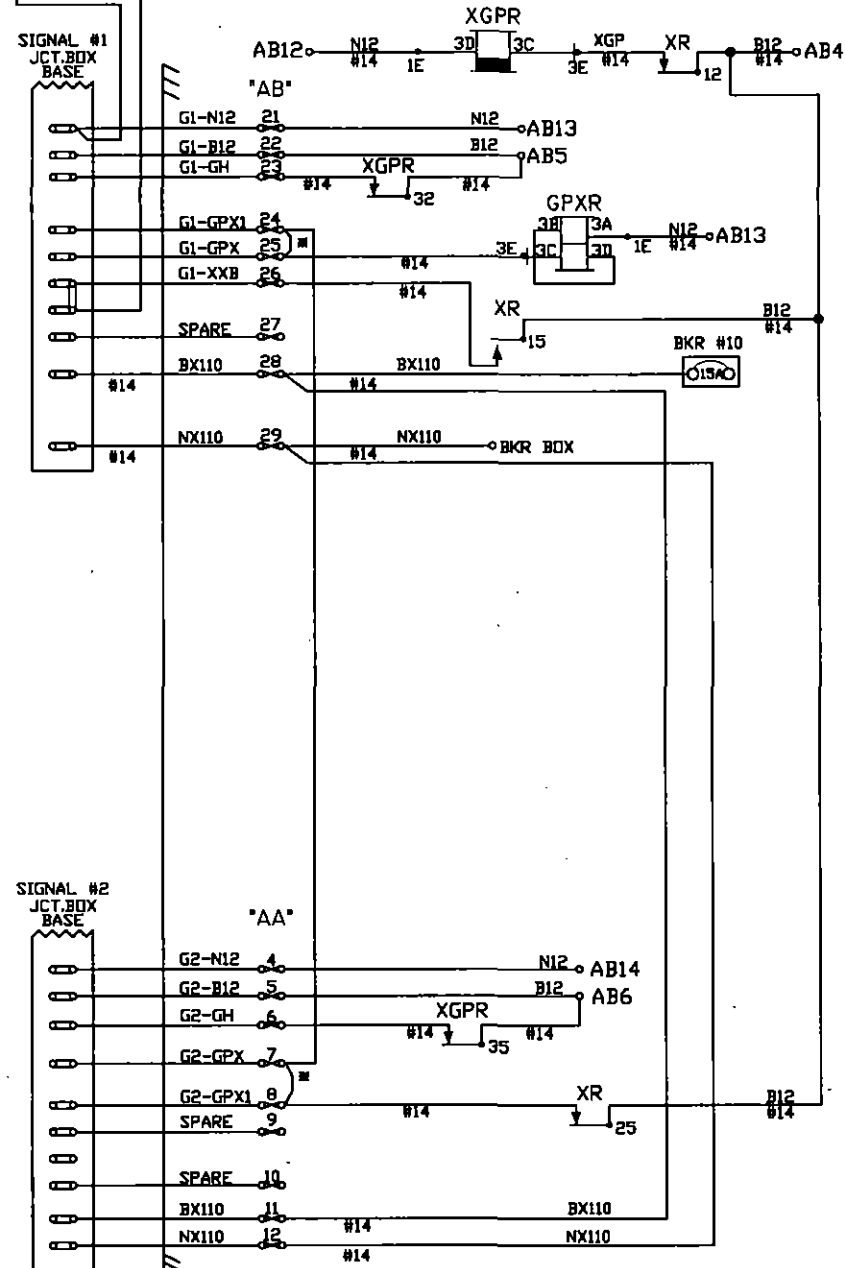


NOTE:  
ALL WIRE THIS SHEET IS #10 AWG. FLEX  
UNLESS OTHERWISE NOTED.

<b>DIAMONDBACK SIGNAL</b> (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



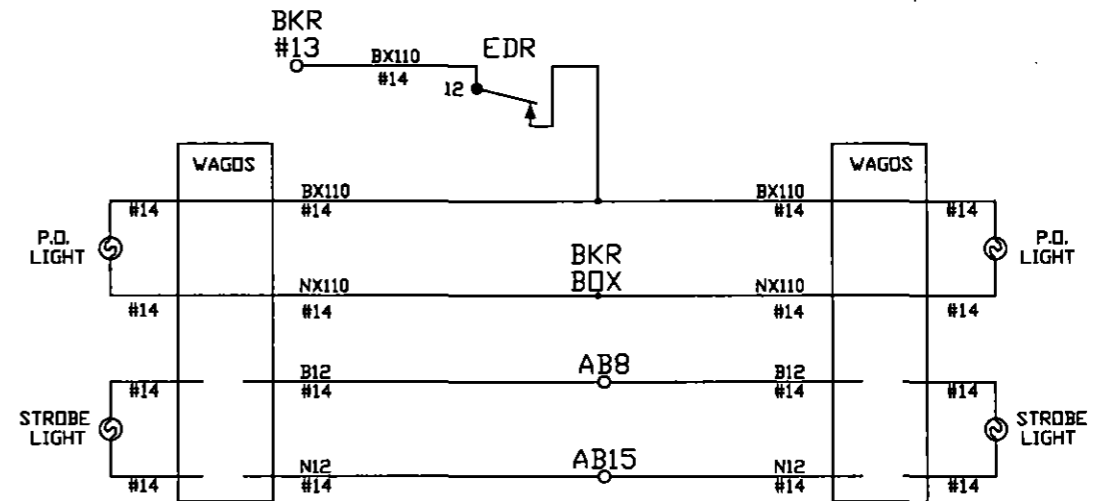
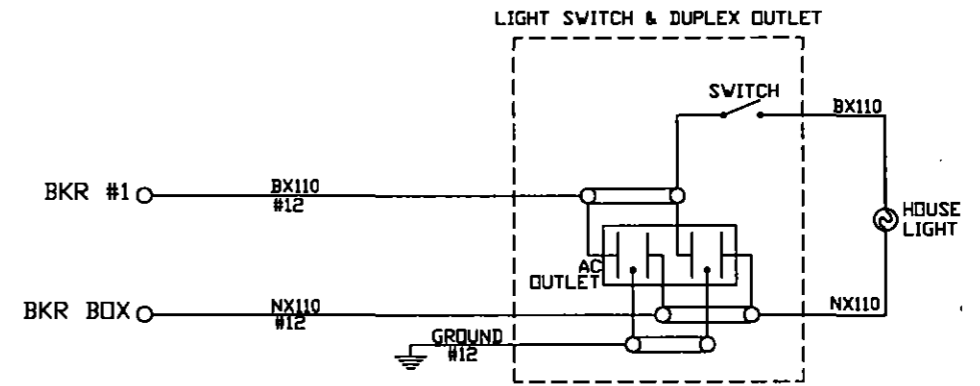
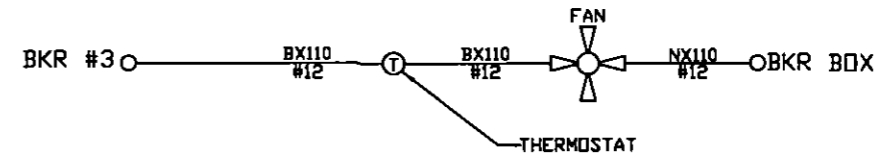
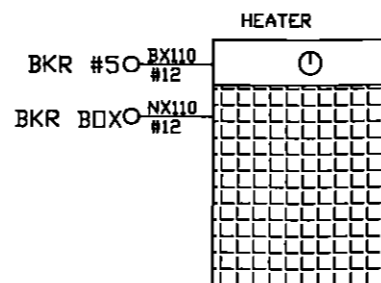
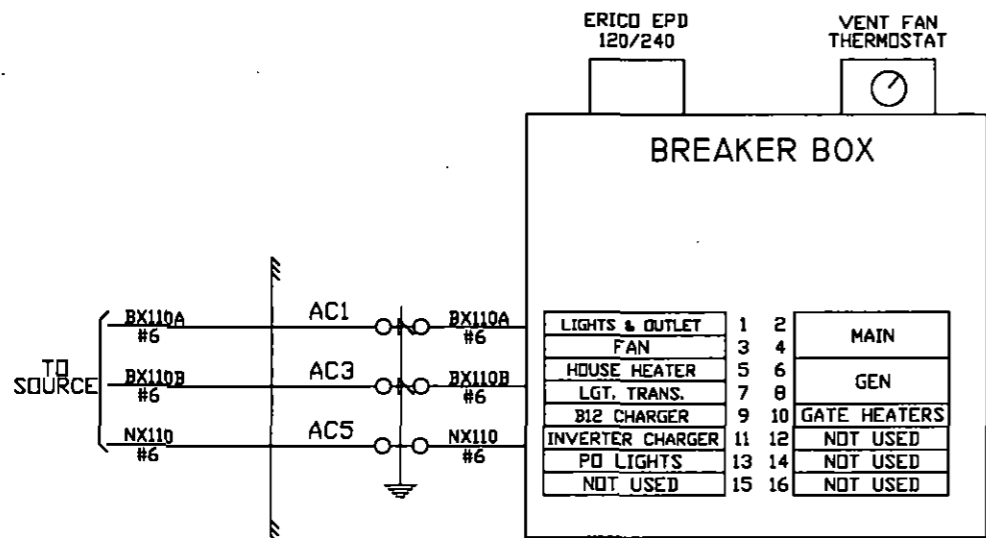
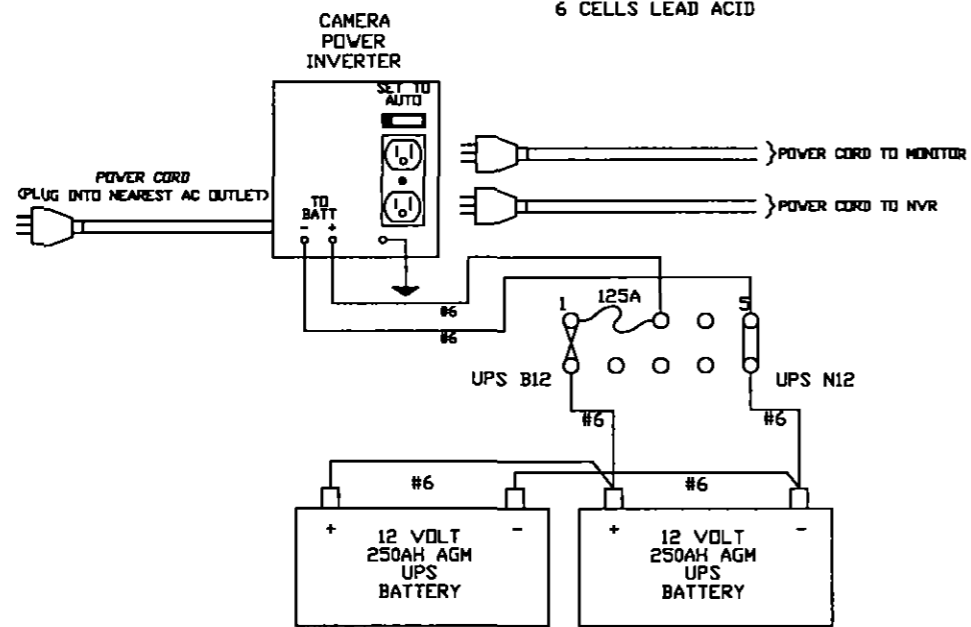
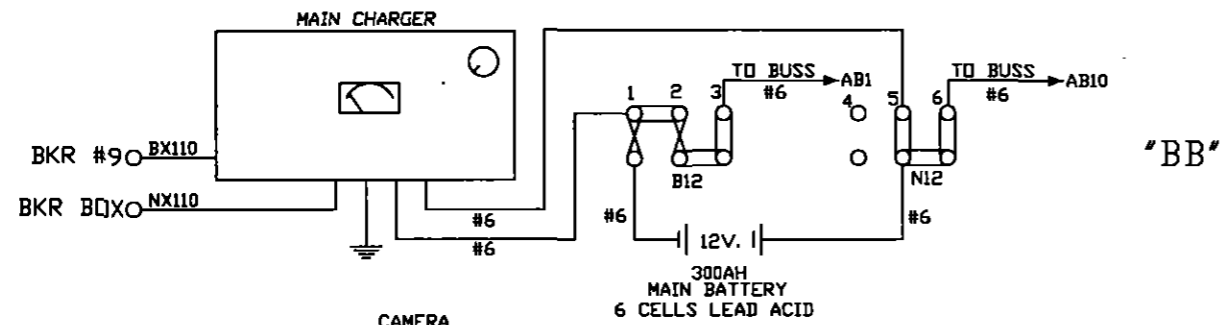
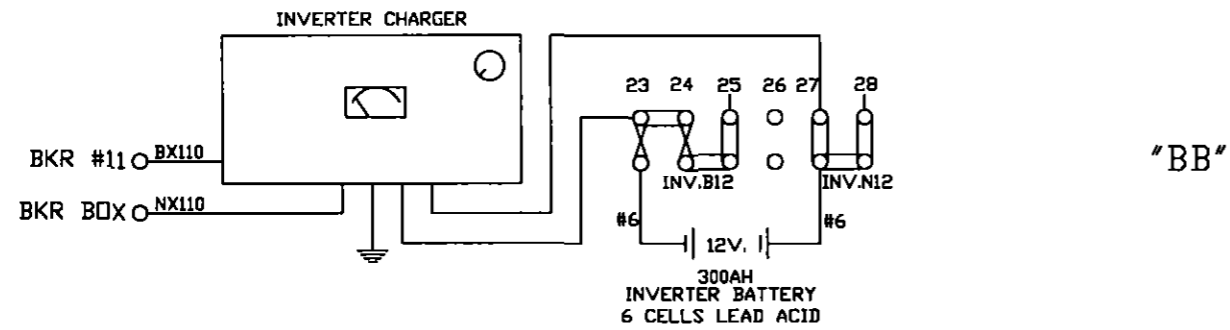
CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.



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

FUTURE GATES

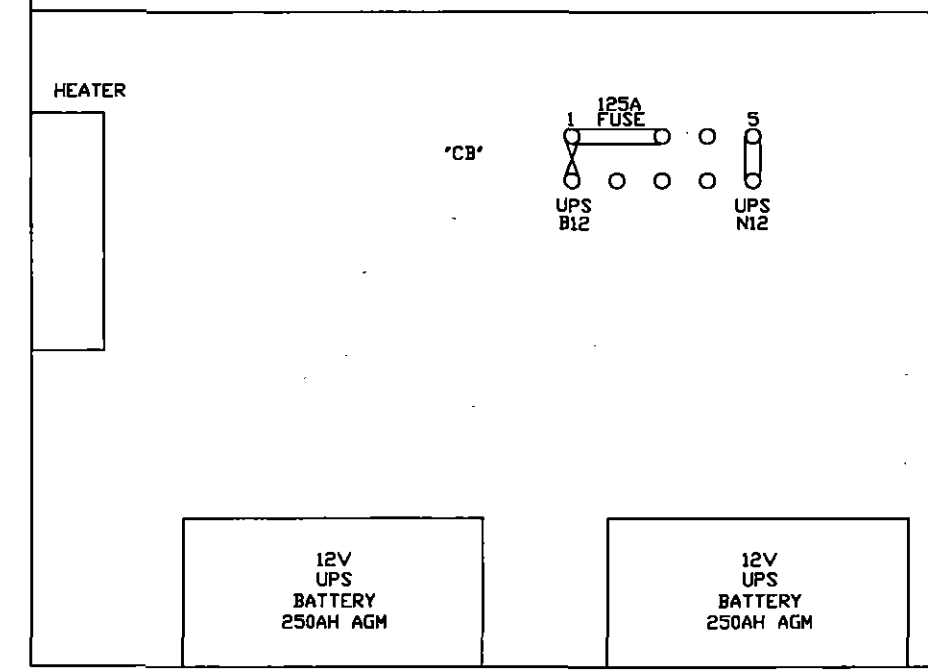
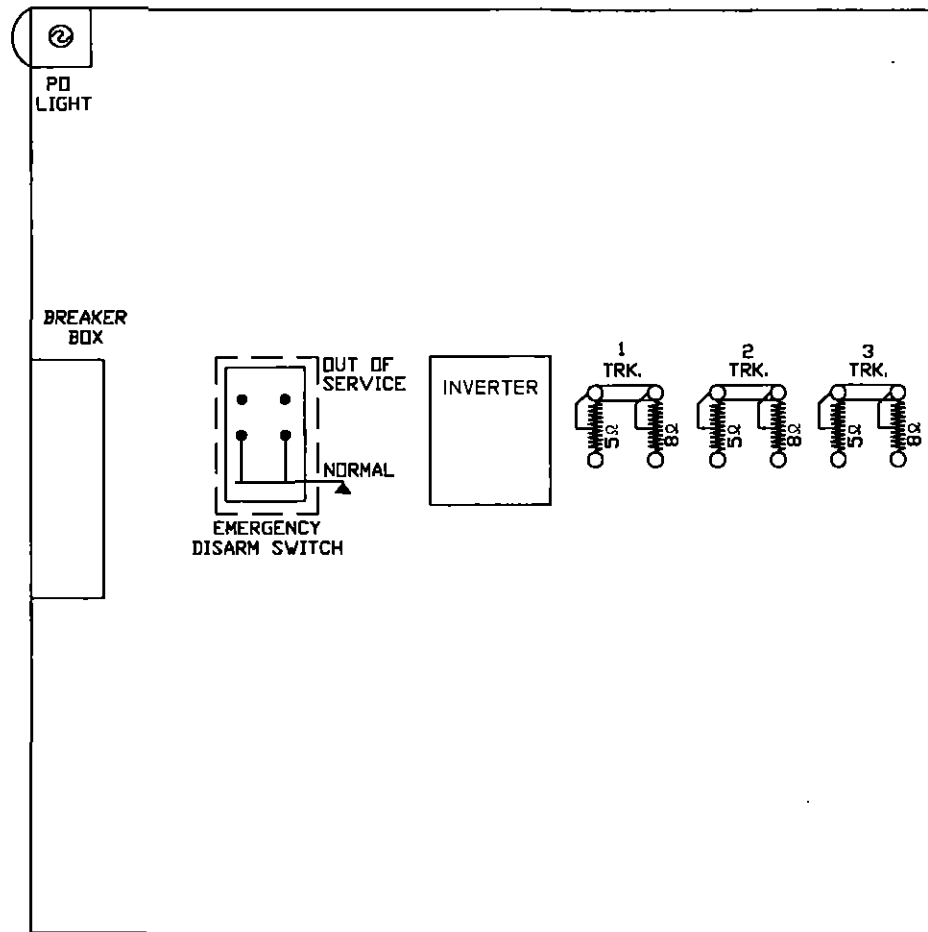
<b>DIAMONDBACK SIGNAL</b> (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES	
SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
DATE: 03/01/2022		REVISED:
MARKET STREET - DOT # 591 722L - M.P. 7.10 SNYDERTOWN, NORTHUMBERLAND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



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

<b>DIAMONDBACK SIGNAL</b> (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 "D"		DRAWING NUMBER 7.10	

SIDE "C"

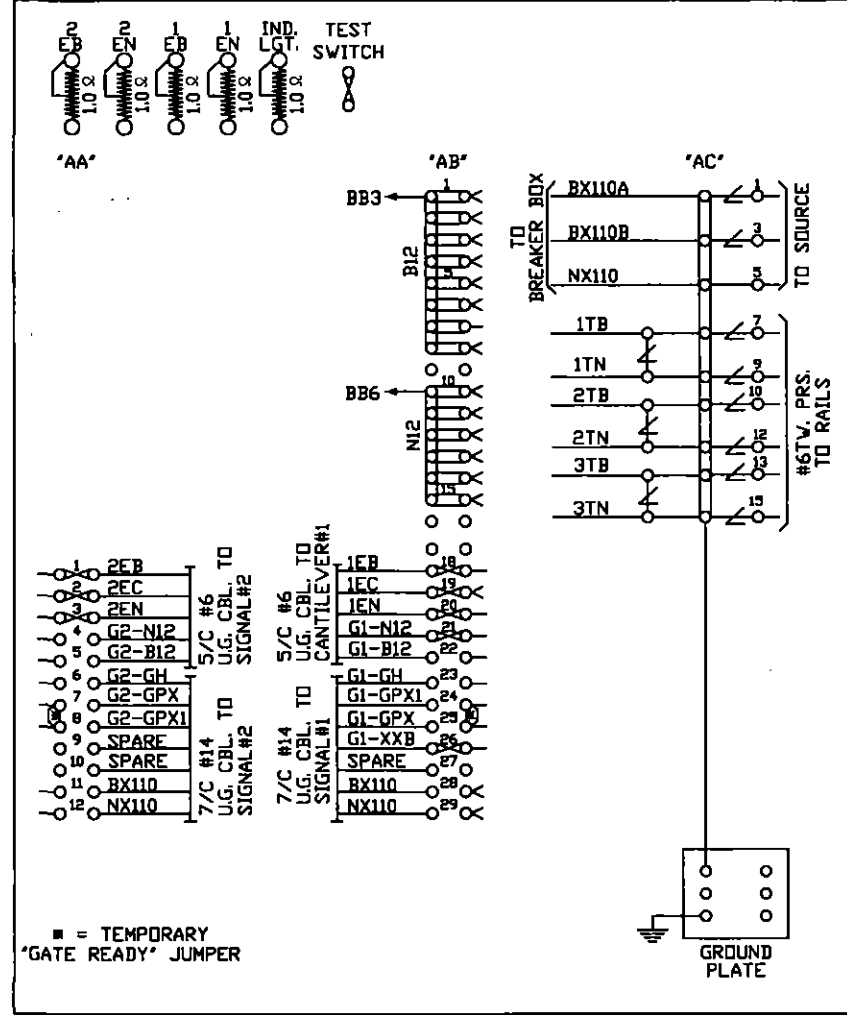


SIDE "A"

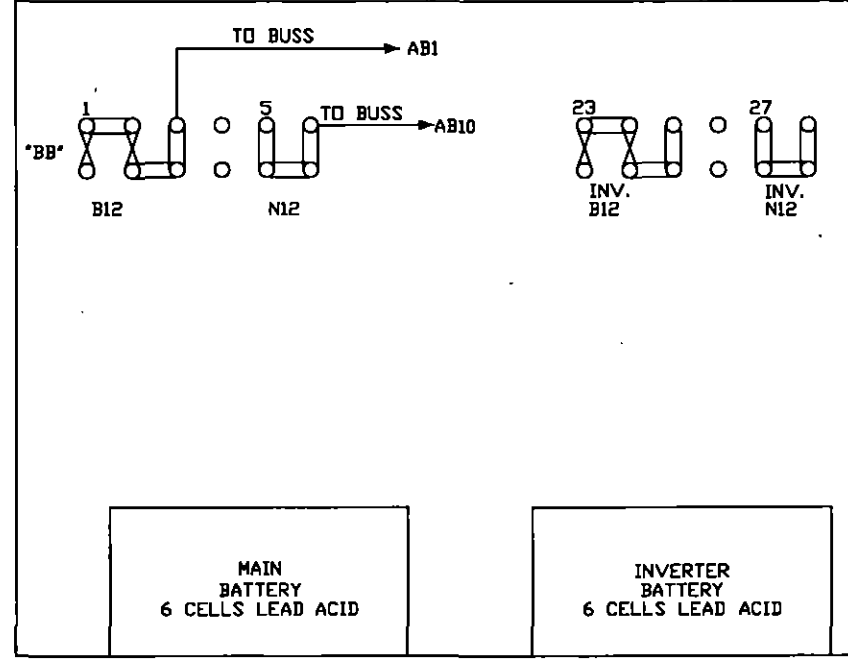
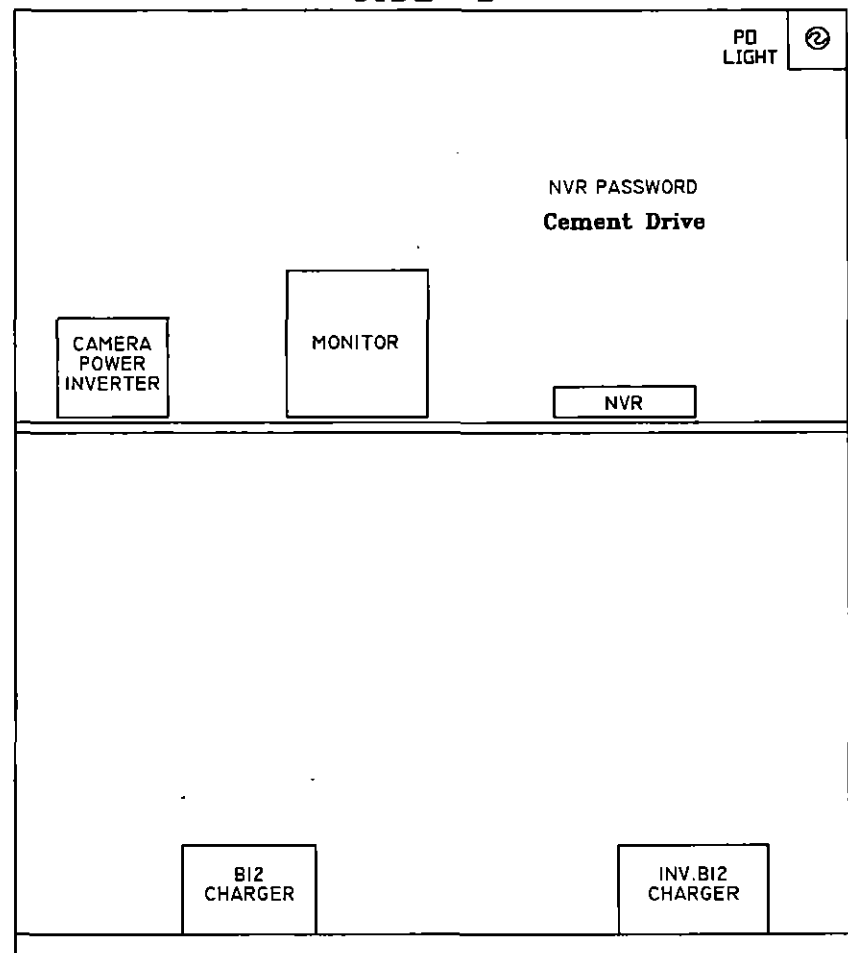
LIGHT TRANS.	POR	EOR	GPXR	XR	XGPR	EDR
	12 FB	12 FB	12 B	12 F	12	12 B
	15 FB	15 FB	15 B	15	15	15
	22	32 FB	22 B	22	32 F	22
	25	35 FB	23	25 F	35 F	25 F
			32	32	32 B	
			35	35	35	
	A62-406	A62-671	A62-310	A62-262	A62-360	A62-262
	400800	400700-X	400020	400000	400200	400000

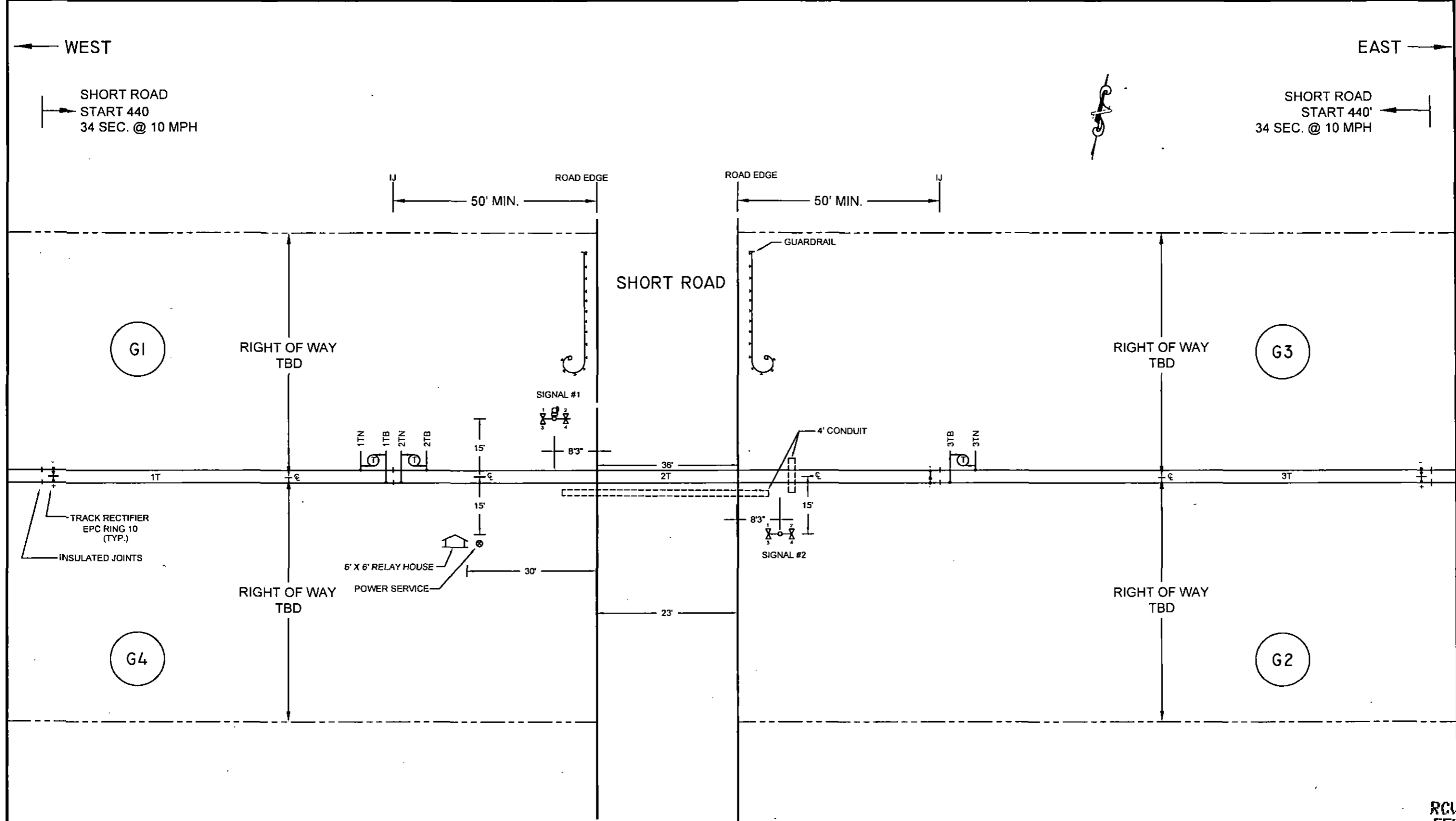
	SR	TR	2 TR	3 TR	3 SR	SLT-000 STICK RELEASE TIMER (10 MIN)
	12	12 F	12 F	12 F	12	
	15	15 FB	15	15 FB	15 F	
	22	22	22 B	22	22 B	
	23	23	23 F	23	23	
	25	25 F	25 F	25 F	25 F	
	32	32	32	32	32	
	35	35	35 B	35	35 B	
	A62-357	A62-120	A62-120	A62-120	A62-357	
	400211	400510	400510	400510	400211	



SIDE "B"



<b>DIAMONDBACK SIGNAL</b> (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	



**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.

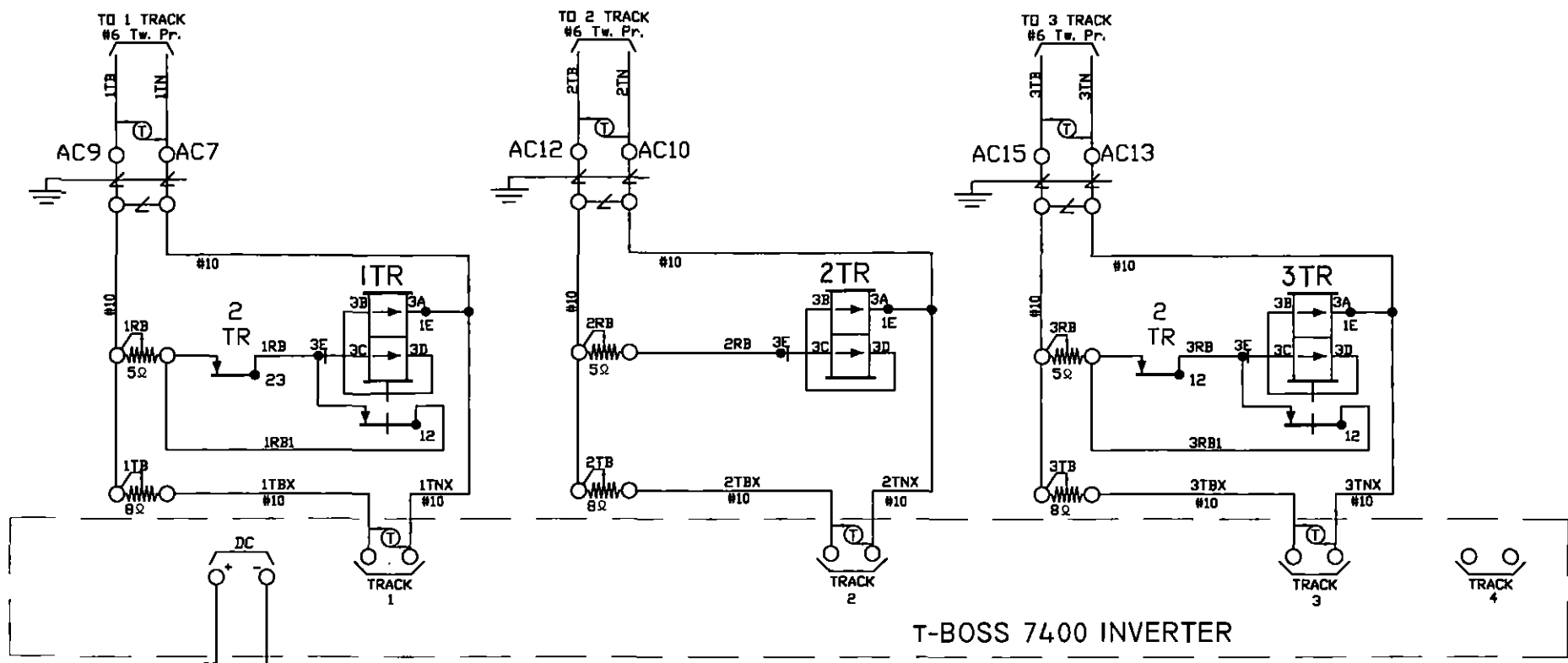
**CABLE RUN TABULATION**

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

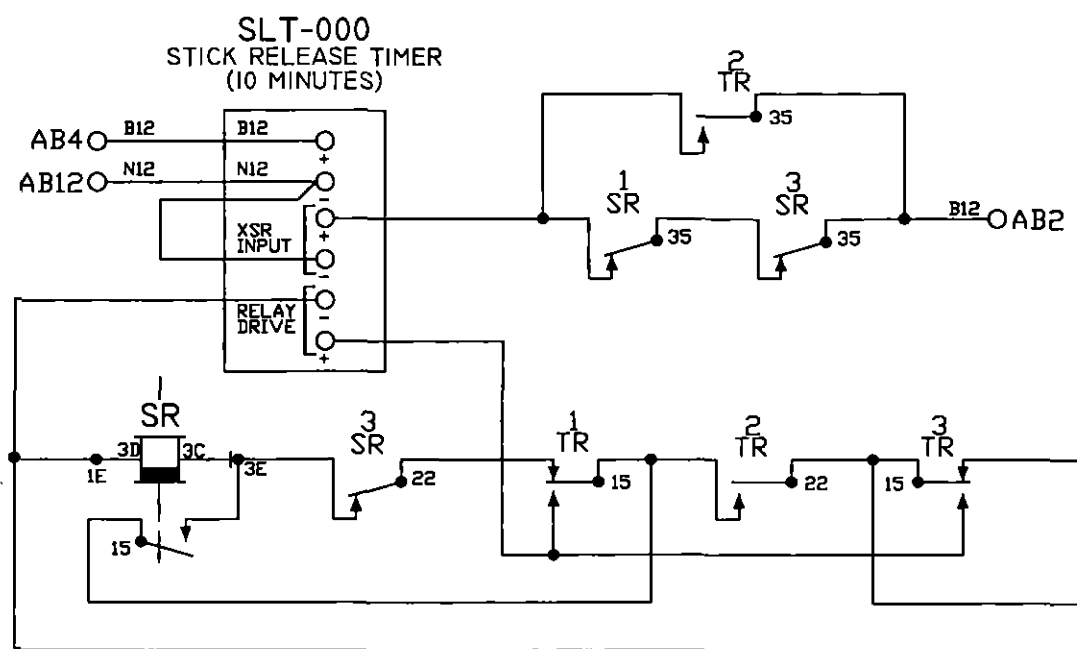
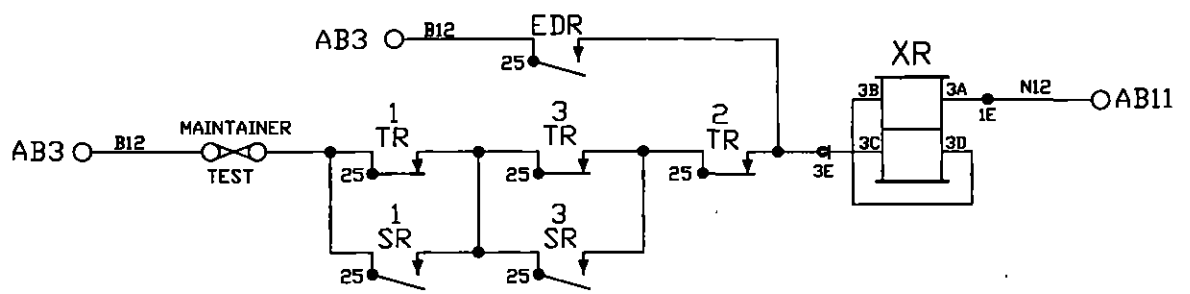
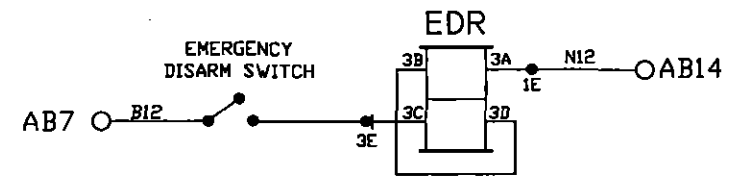
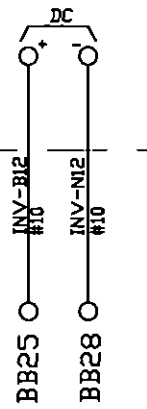
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FEB 23 2023 AM 10:54

**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: 03/06/2022		REVISED:	
SHORT ROAD - DOT # 591 720X - M.P. 9.42 SNYDERTOWN NORTHUMBERLAND COUNTY, PA			
TRACK & CABLE PLAN			DRAWING NUMBER 9.42

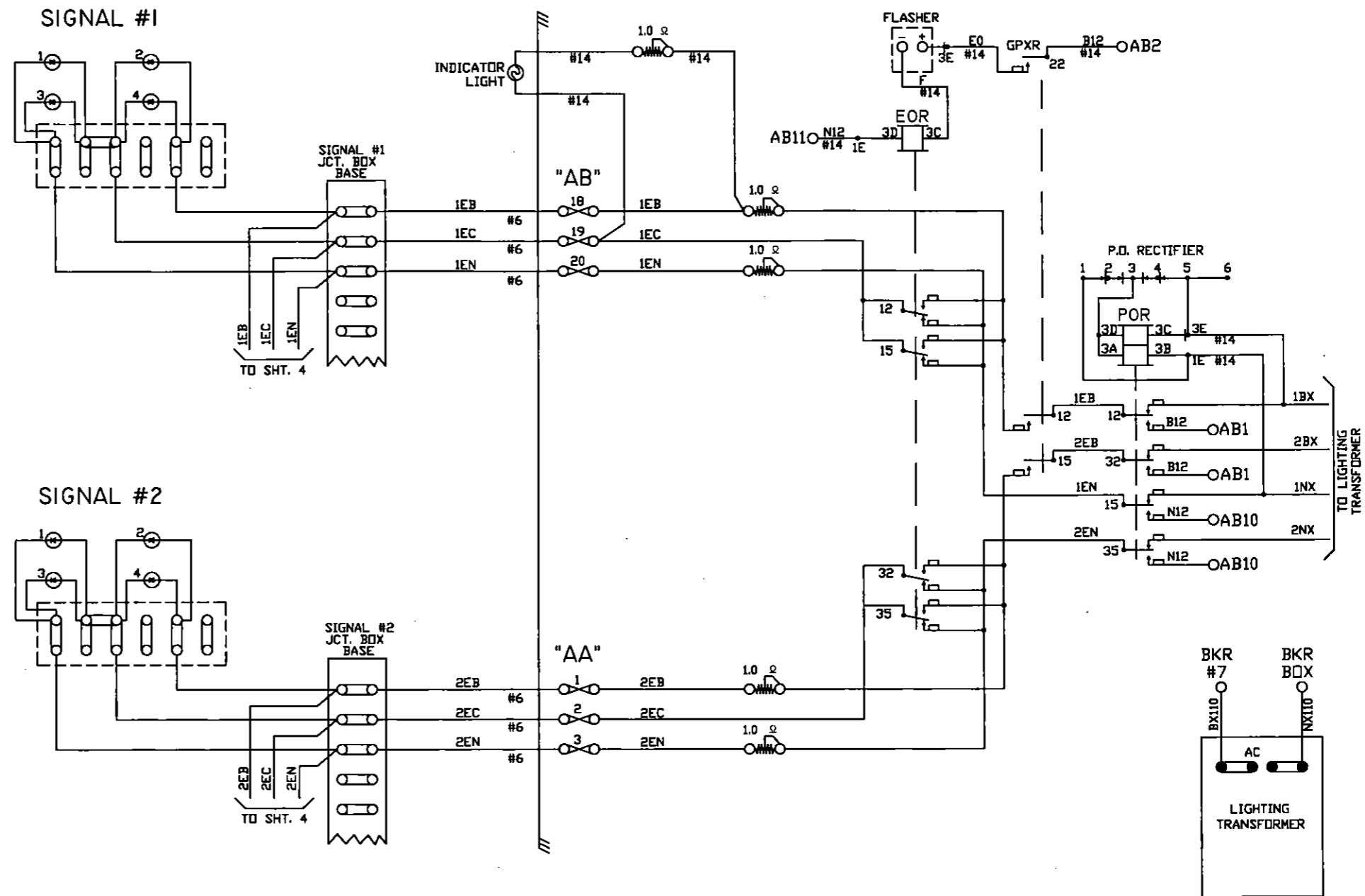


T-BOSS 7400 INVERTER



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

<b>DIAMONDBACK SIGNAL</b> (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	

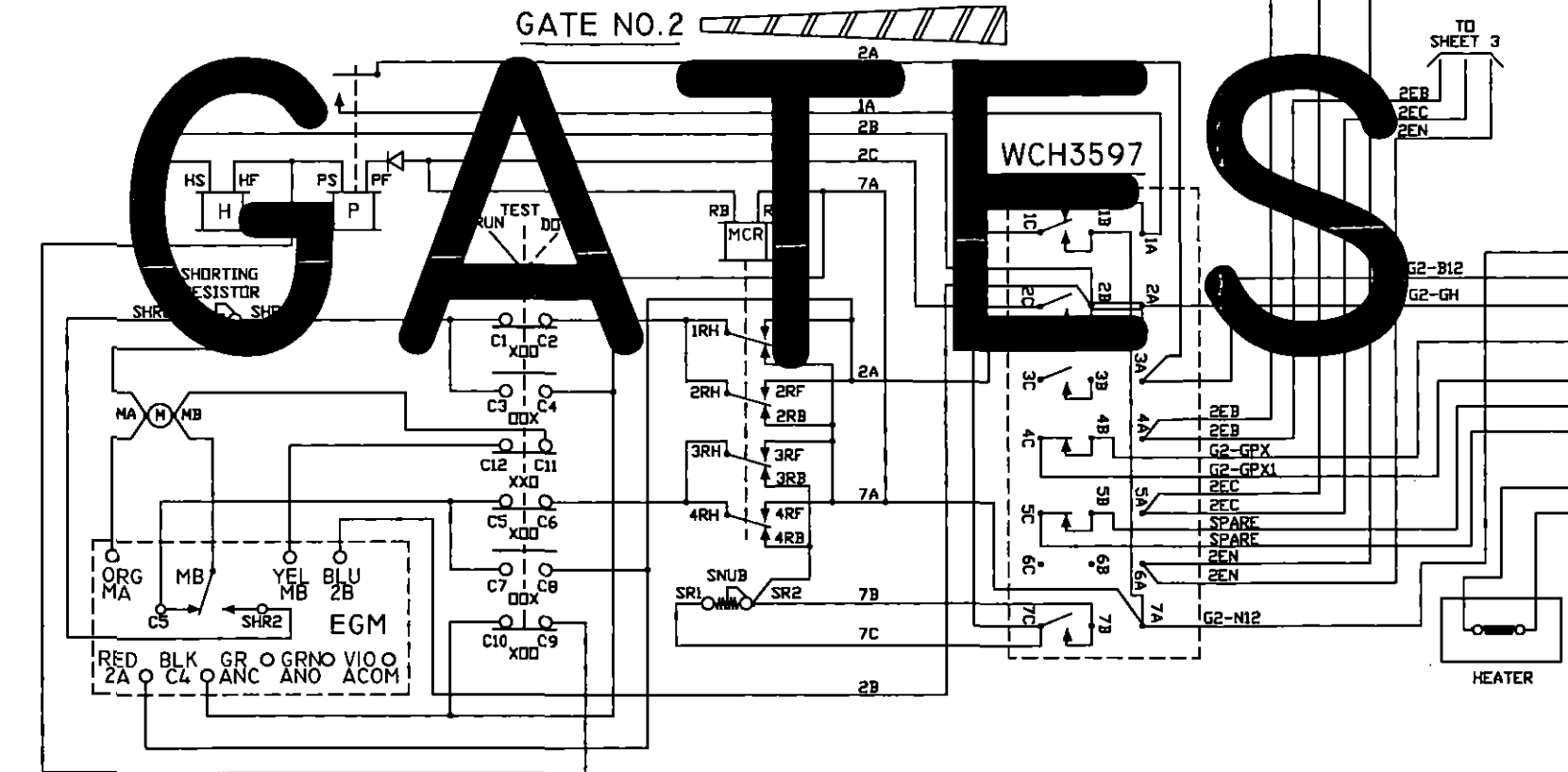
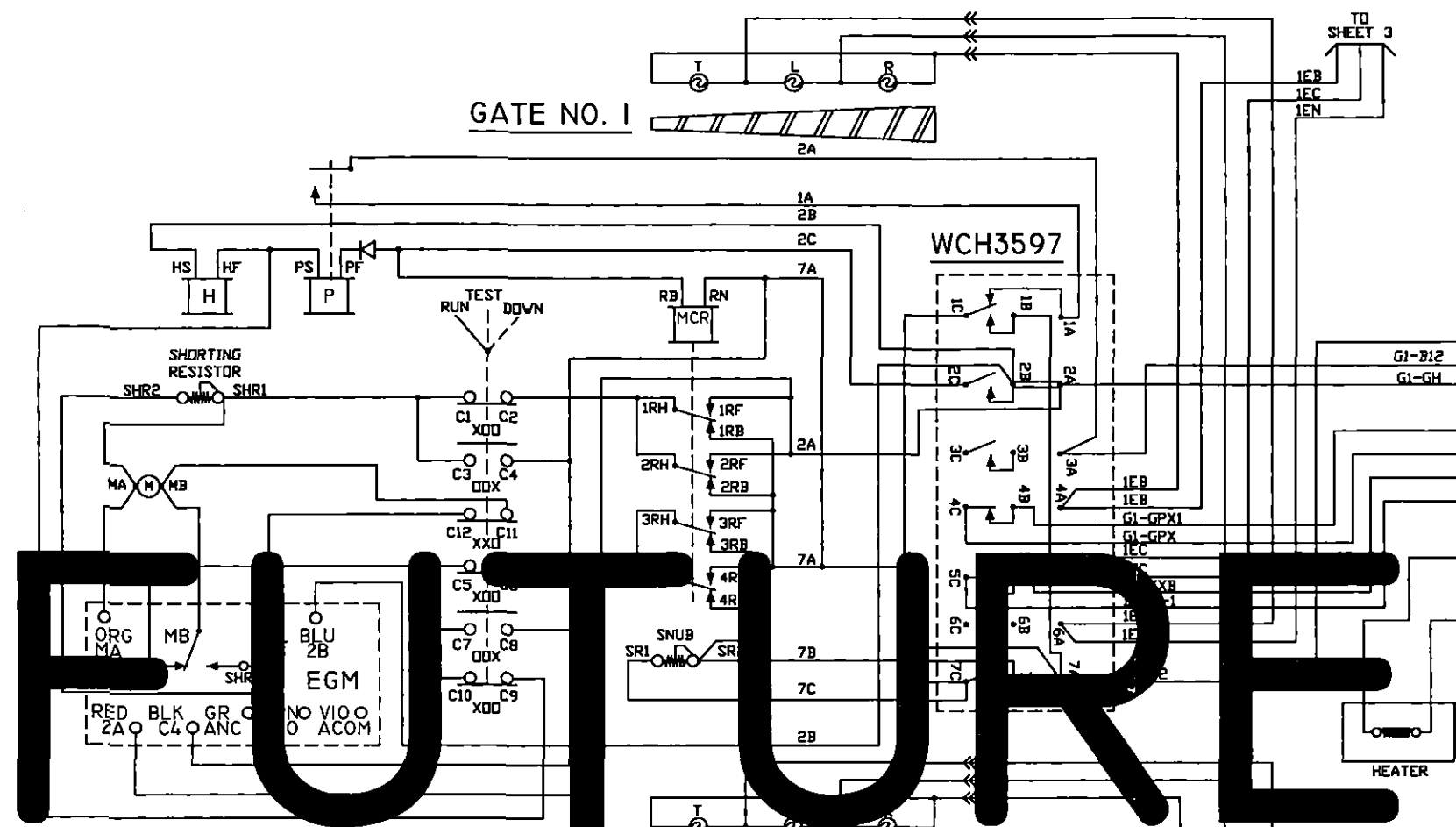


NOTE:  
ALL WIRE THIS SHEET IS #10 AWG. FLEX  
UNLESS OTHERWISE NOTED.

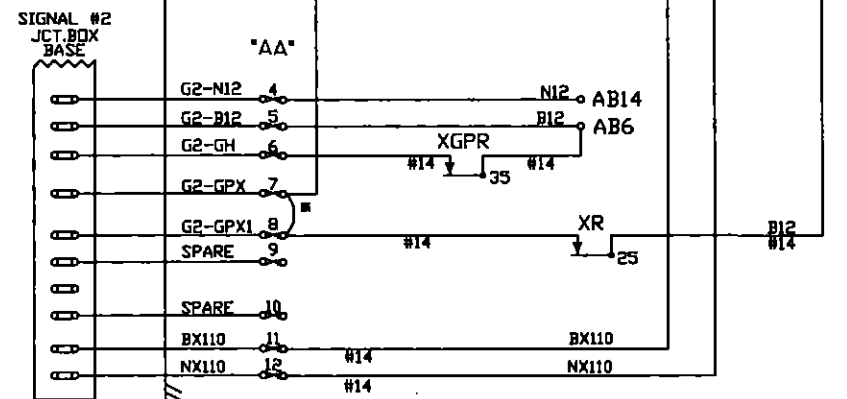
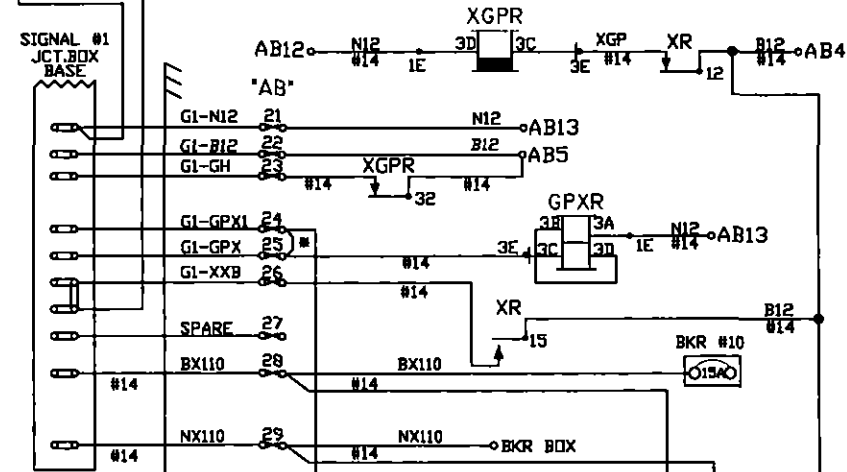
**DIAMONDBACK  
SIGNAL**

(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



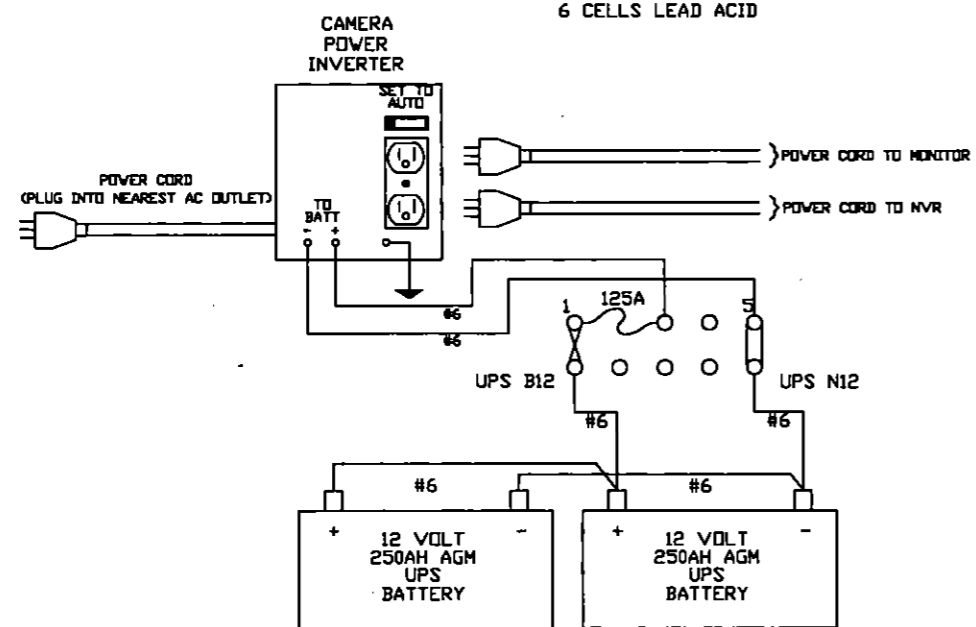
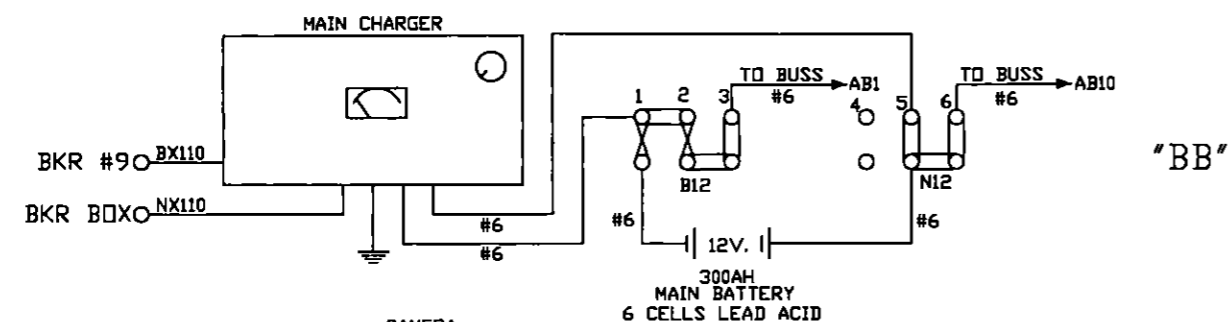
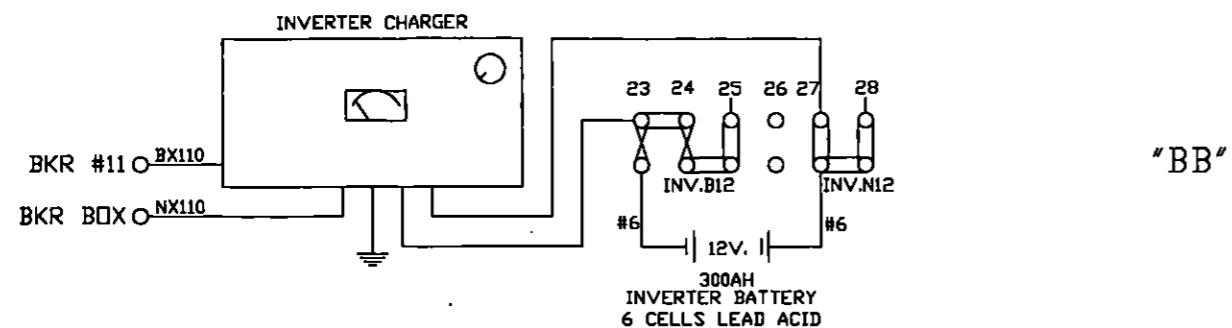
CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.



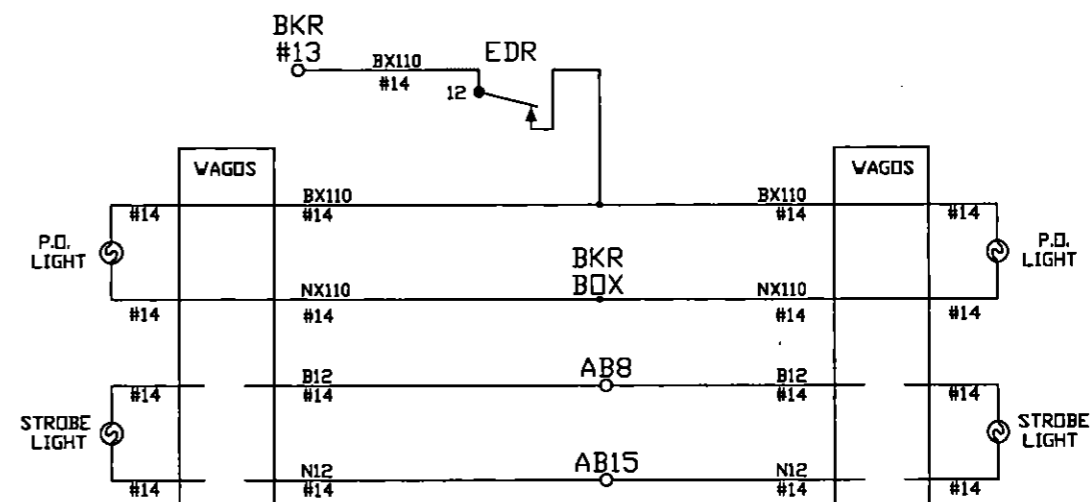
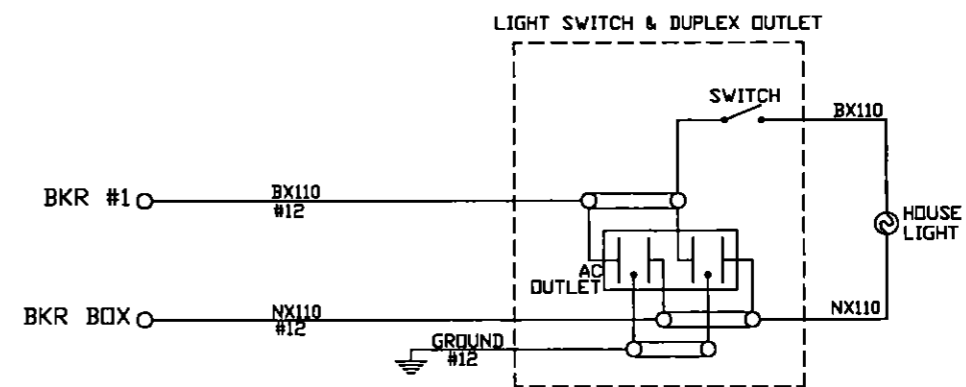
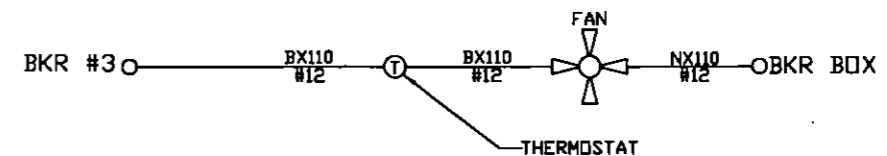
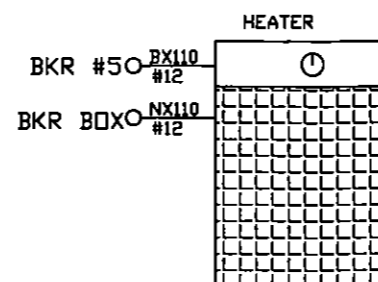
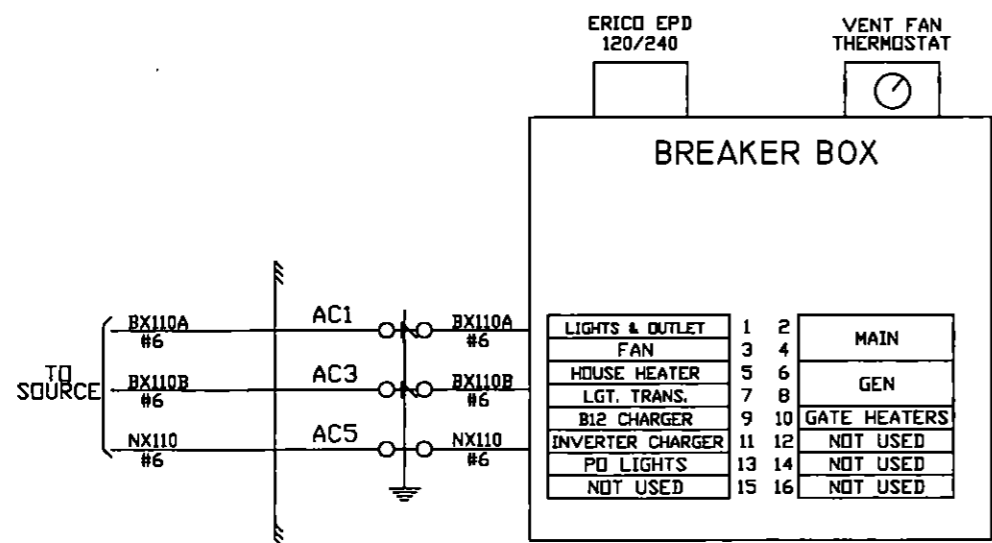
NOTES:  
 ALL WIRE ON THIS SHEET IS #10AWG  
 UNLESS OTHERWISE NOTED.  
 \* = TEMPORARY 'GATE READY' JUMPER.

FUTURE  
GATES

<b>DIAMONDBACK SIGNAL</b> (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.

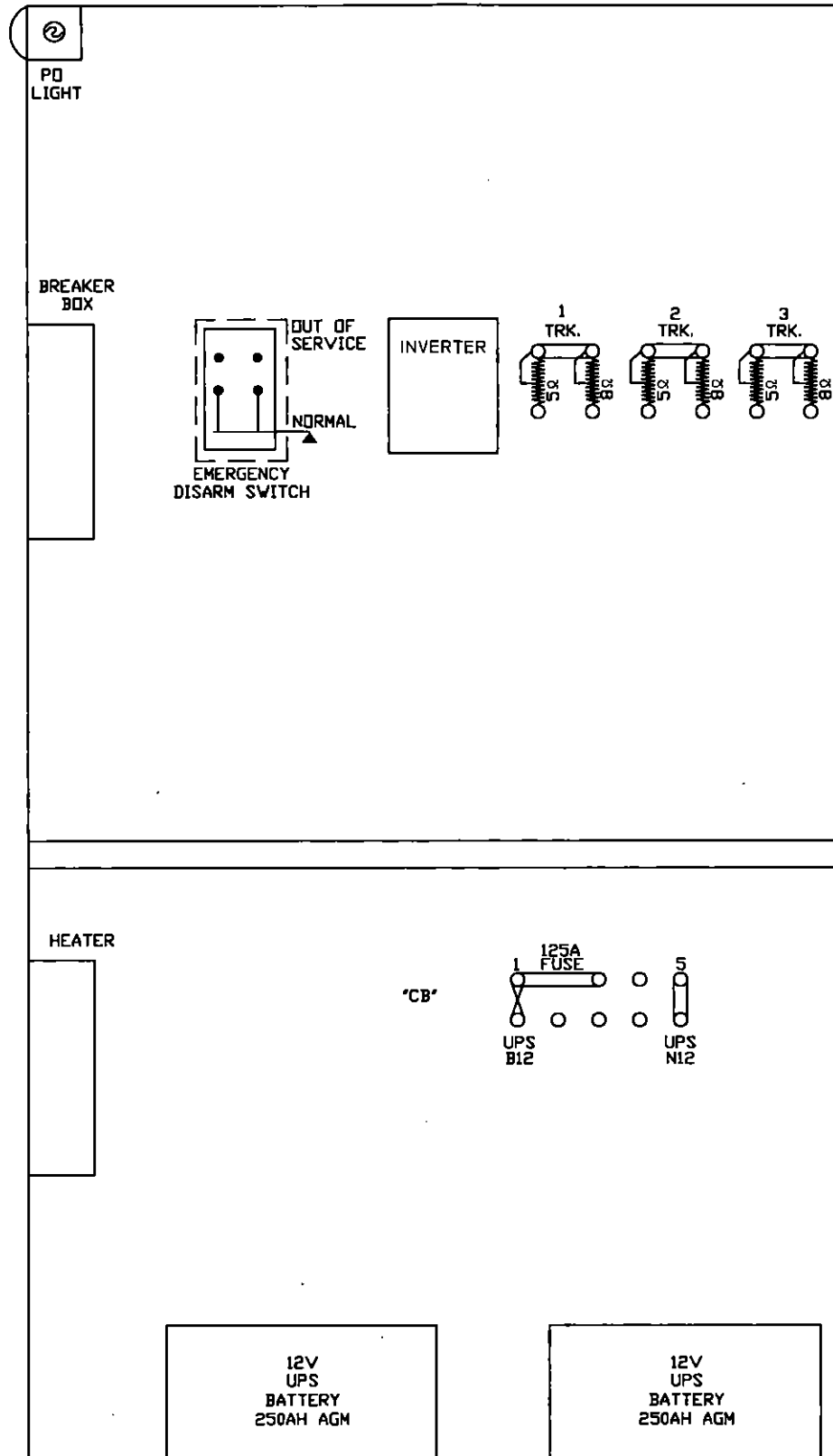
AS WIRED AS INSTALLED

**DIAMONDBACK SIGNAL**

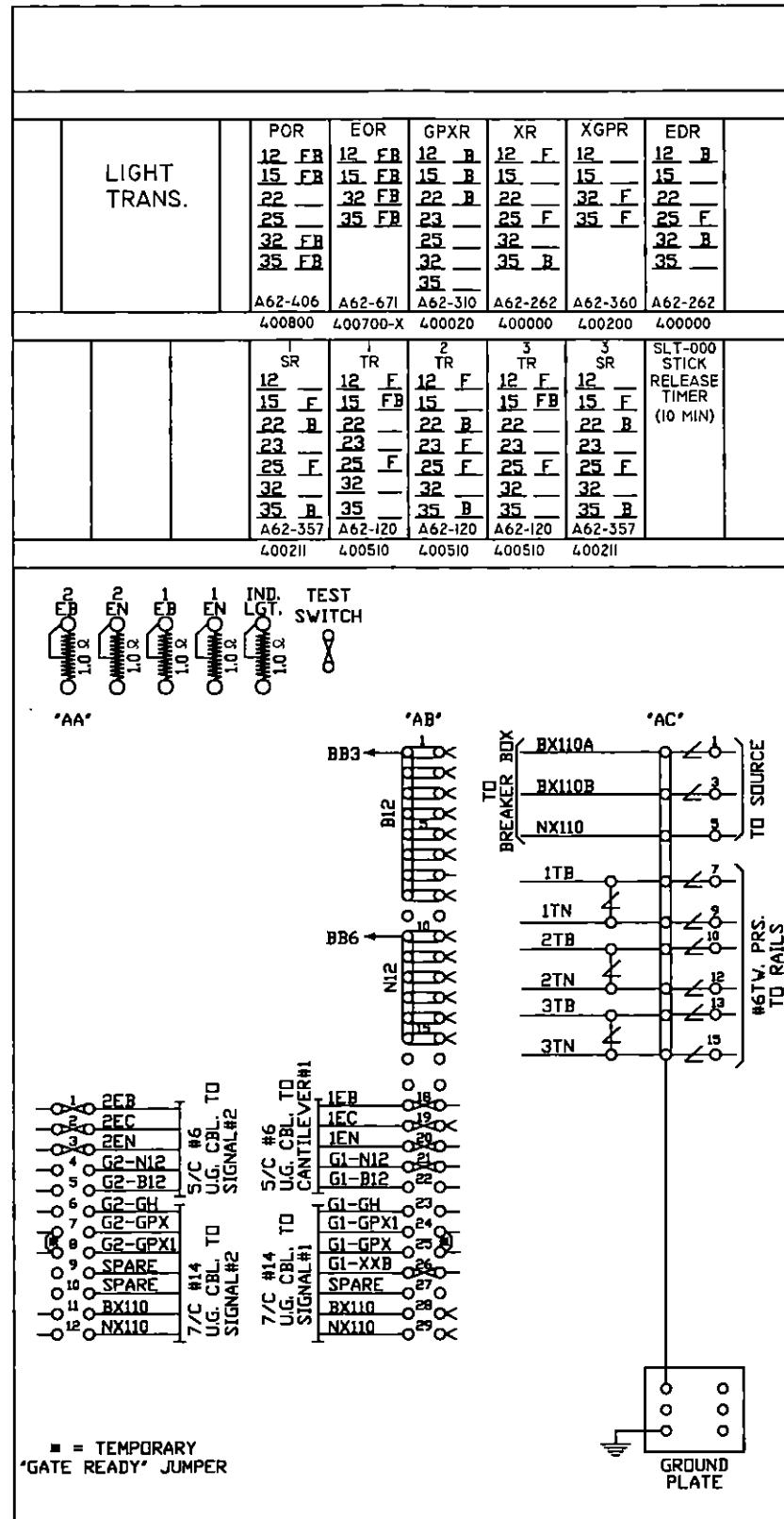
(410) 795-9601  
5965 EXCHANGE DRIVE  
SUITE "D"  
SYKESVILLE, MD  
21784

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

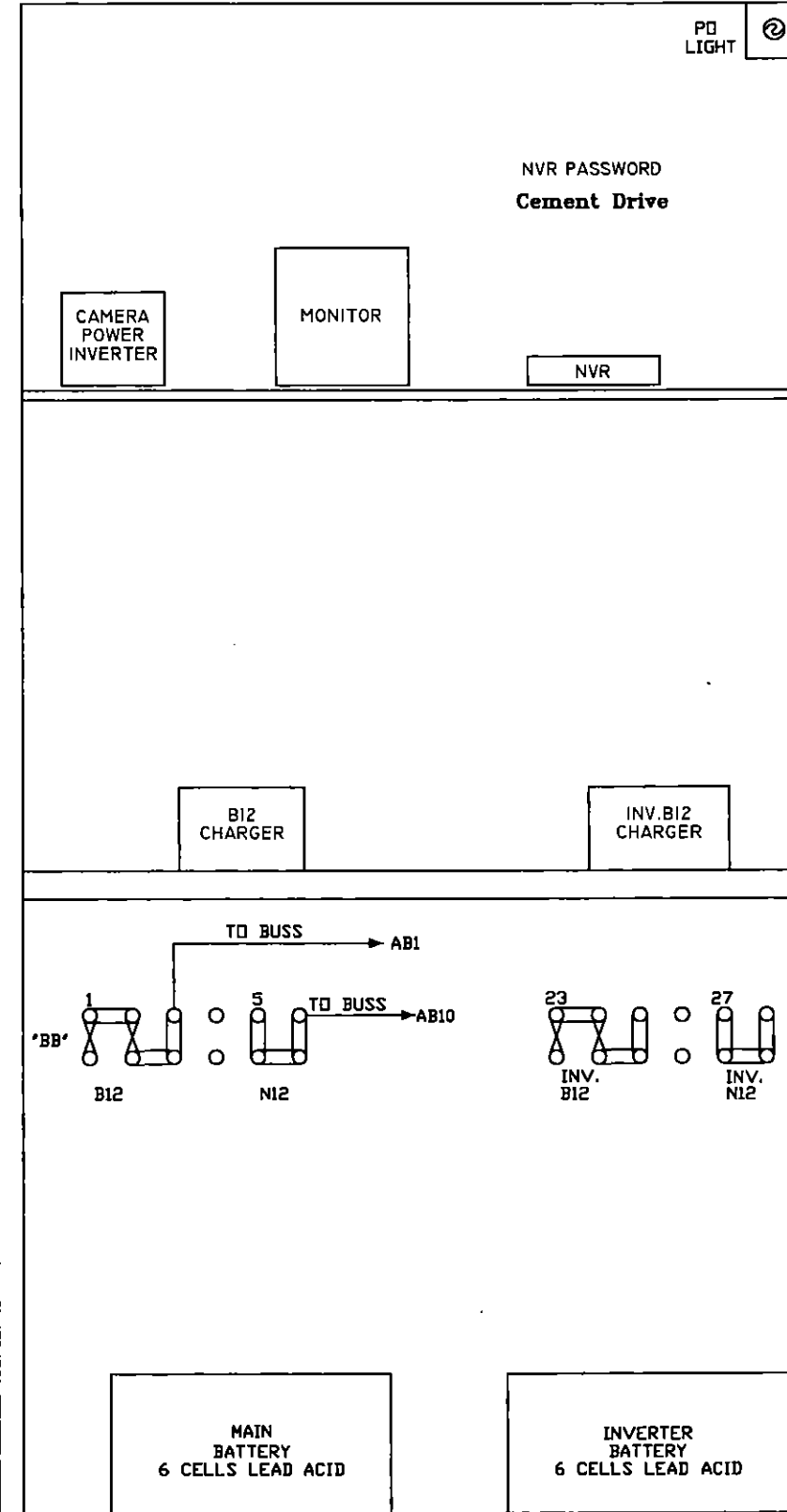
SIDE "C"



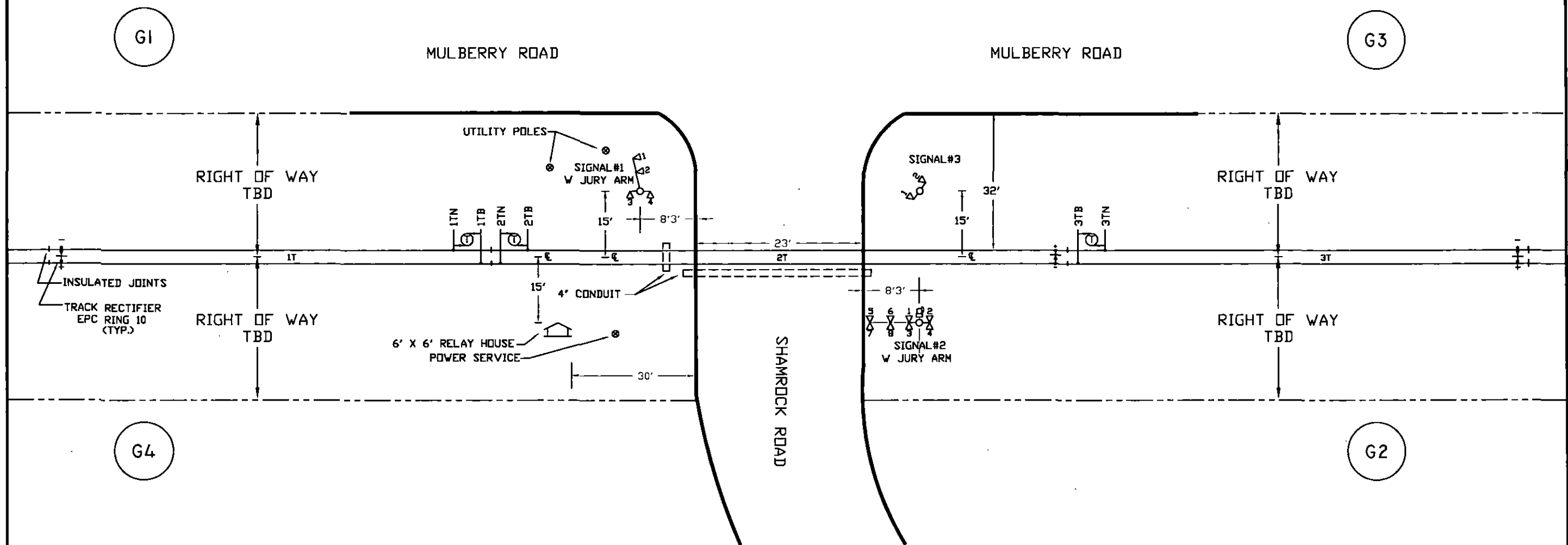
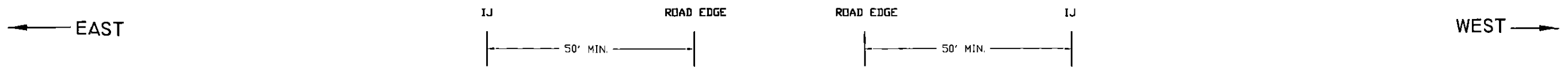
SIDE "A"



SIDE "B"



<p><b>DIAMONDBACK SIGNAL</b></p> <p>(410) 795-9601</p> <p>5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784</p>	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:**

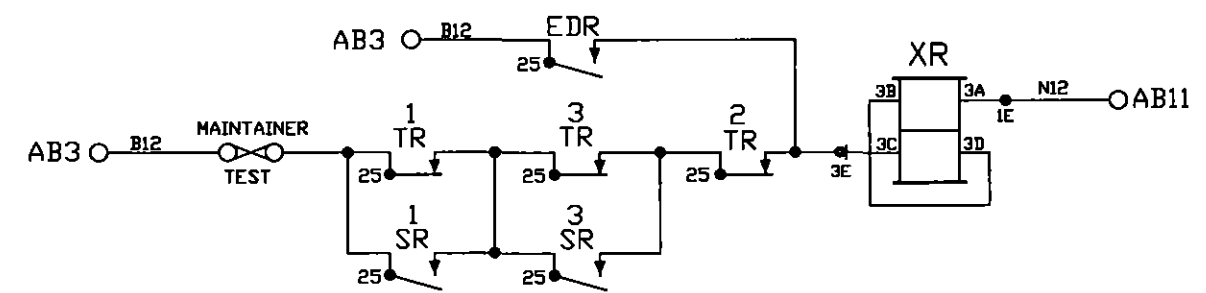
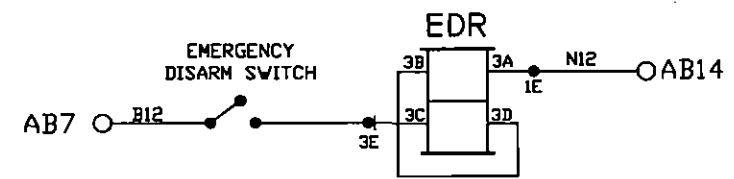
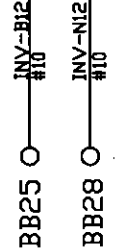
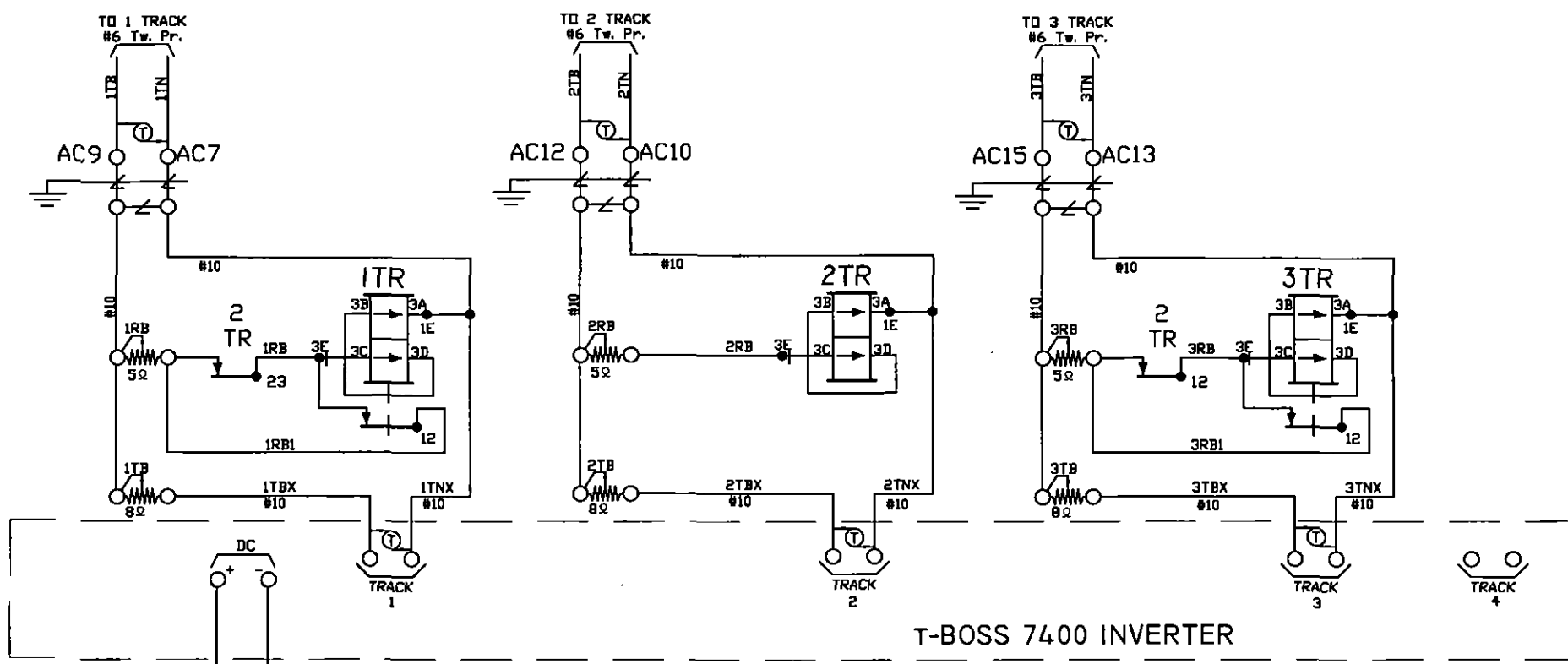
1. MATERIAL & INSTALLATION TO BE IN ACCORDANCE WITH MUTCD, STATE AND RAILROAD STANDARDS.
2. ALL DIMENSIONS ARE APPROXIMATE AND MAY VARY DUE TO ACTUAL FIELD CONDITIONS.
3. FLASHLIGHT SIGNALS & GATE LIGHTS TO BE LIGHT EMITTING DIODE ASSEMBLIES, (LED).
4.  $\textcircled{T}$  DENOTES TWIST PAIR.

**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

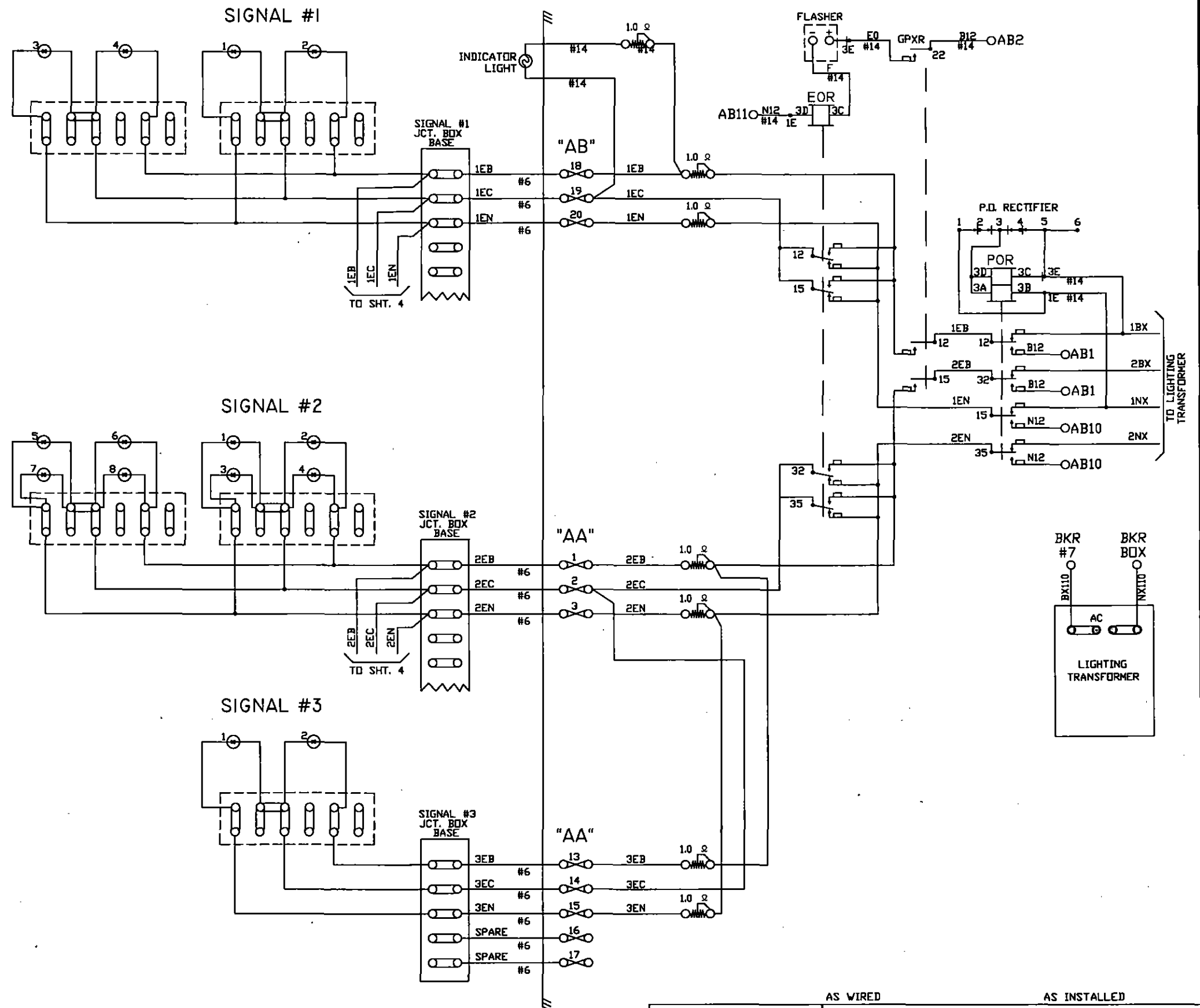
RCVD PLC SEC BUR  
FEB 23 2023 AM 10:54

<b>DIAMONDBACK SIGNAL</b>  (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	



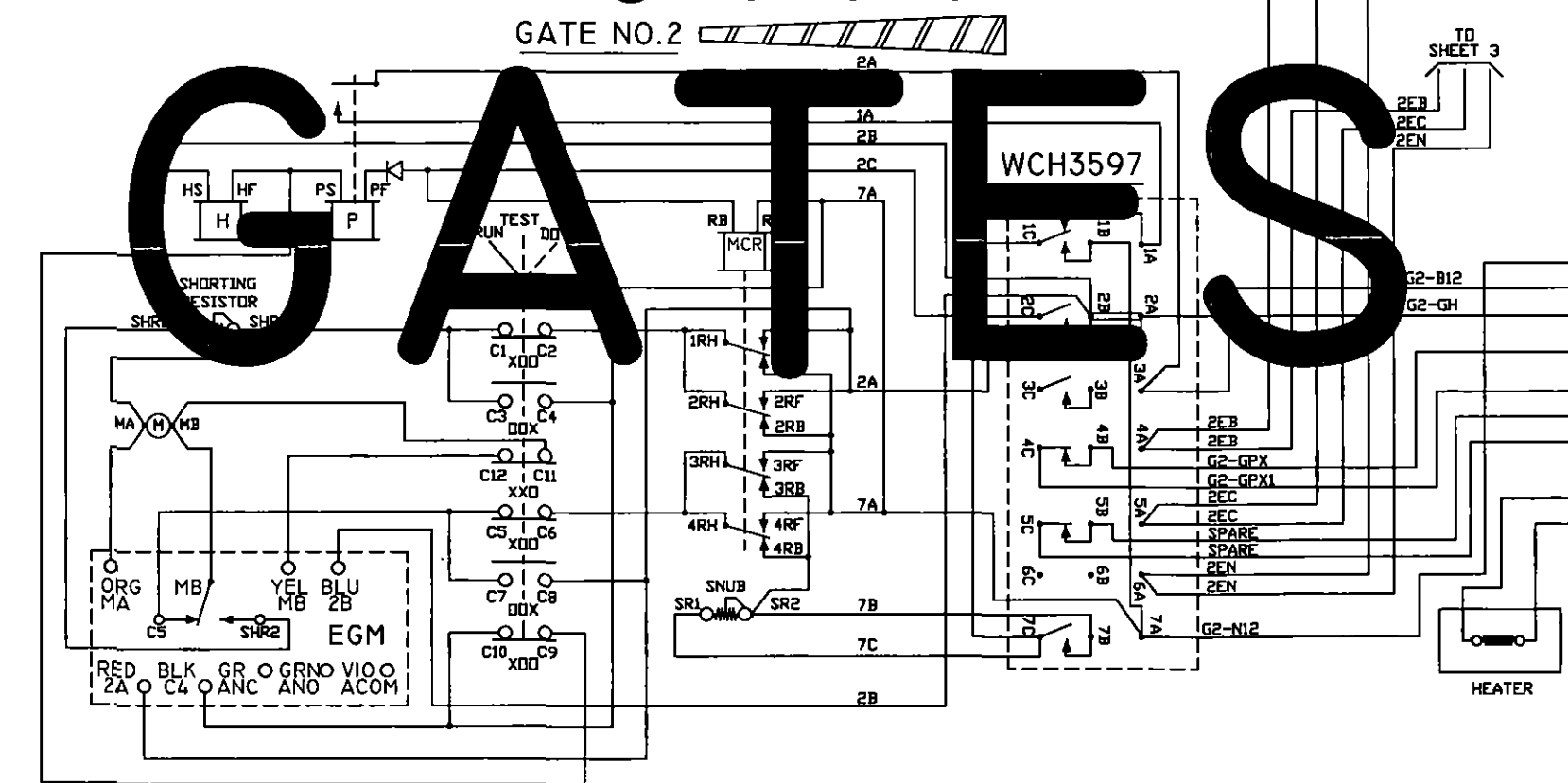
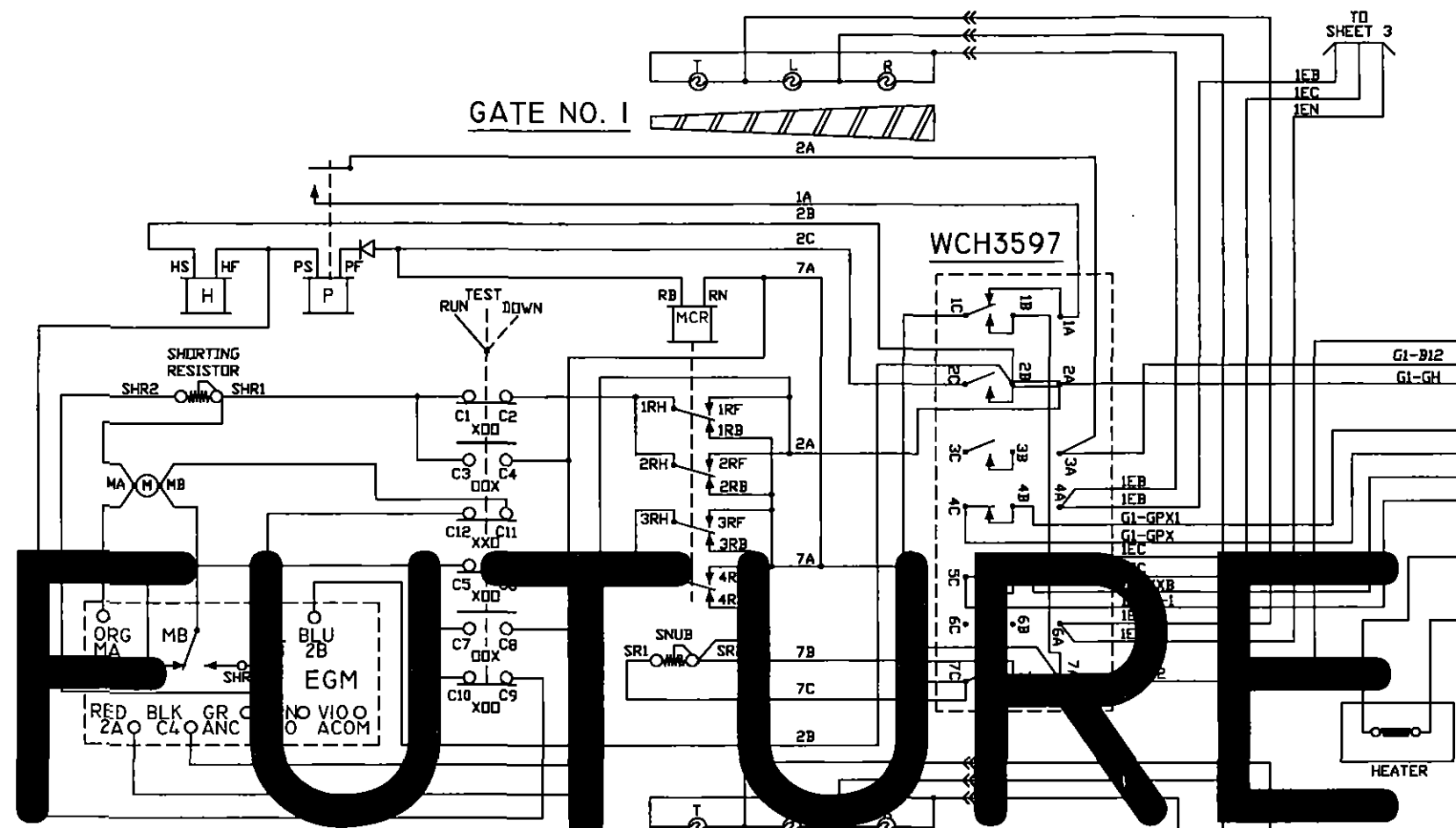
- NOTES:
1. ALL WIRE THIS SHEET IS #14 AWG FLEX UNLESS OTHERWISE NOTED.
  2. (TW) DENOTES TWISTED PAIR.

<b>DIAMONDBACK SIGNAL</b> (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 12.18	
CIRCUIT PLAN 'A'			

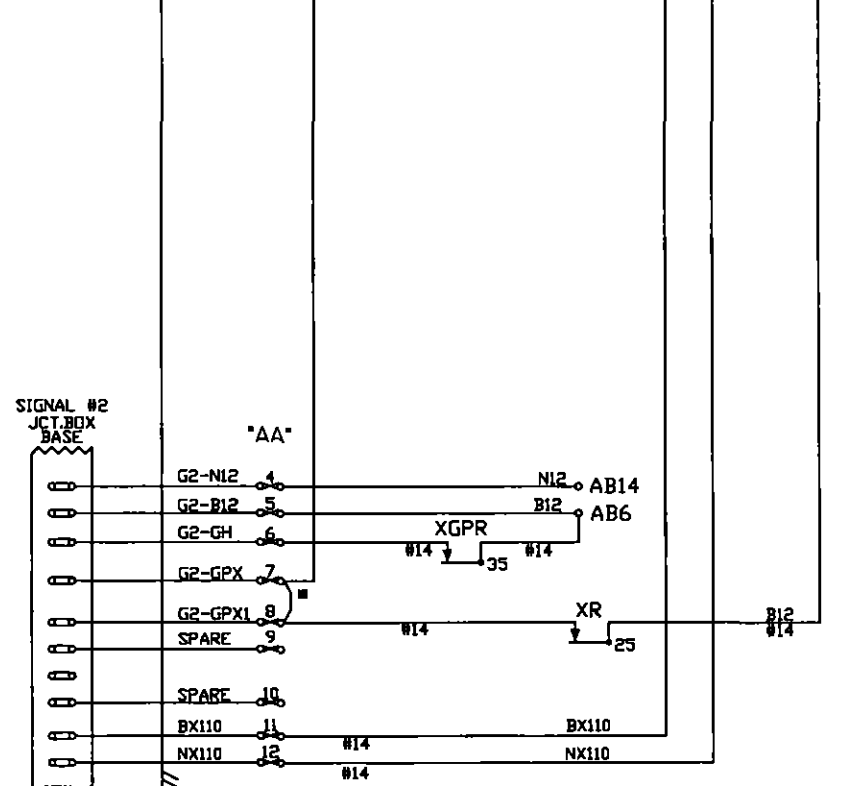
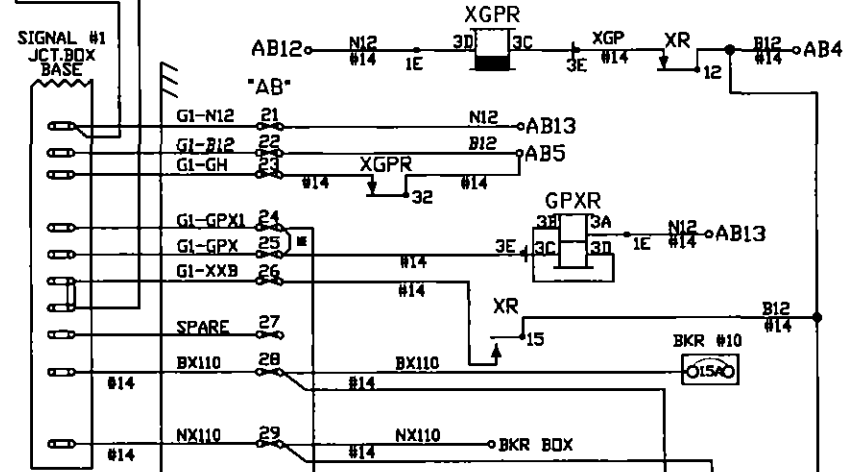


NOTE:  
ALL WIRE THIS SHEET IS #10 AWG. FLEX  
UNLESS OTHERWISE NOTED.

<b>DIAMONDBACK SIGNAL</b>  (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	

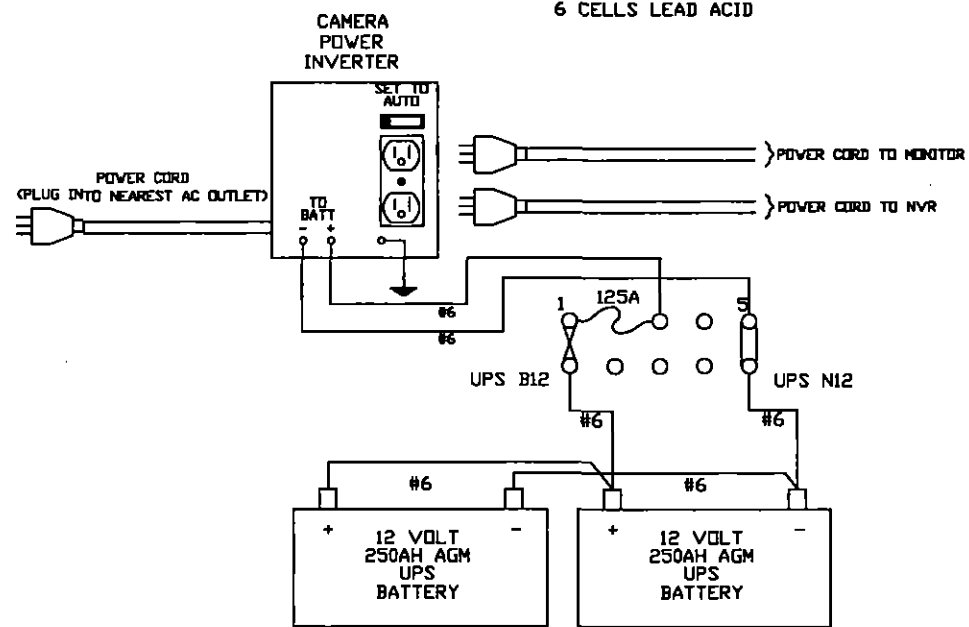
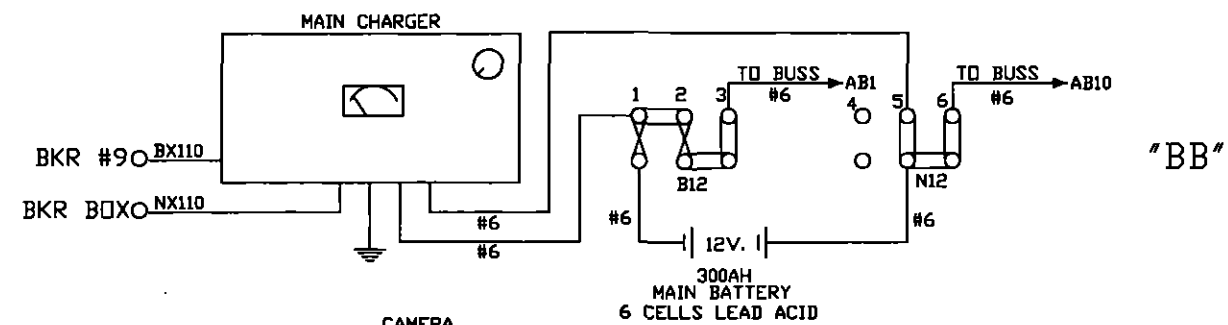
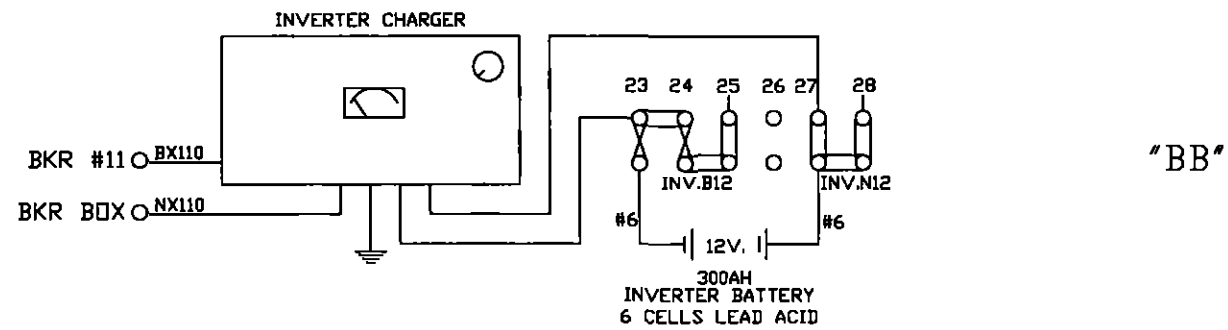


CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.

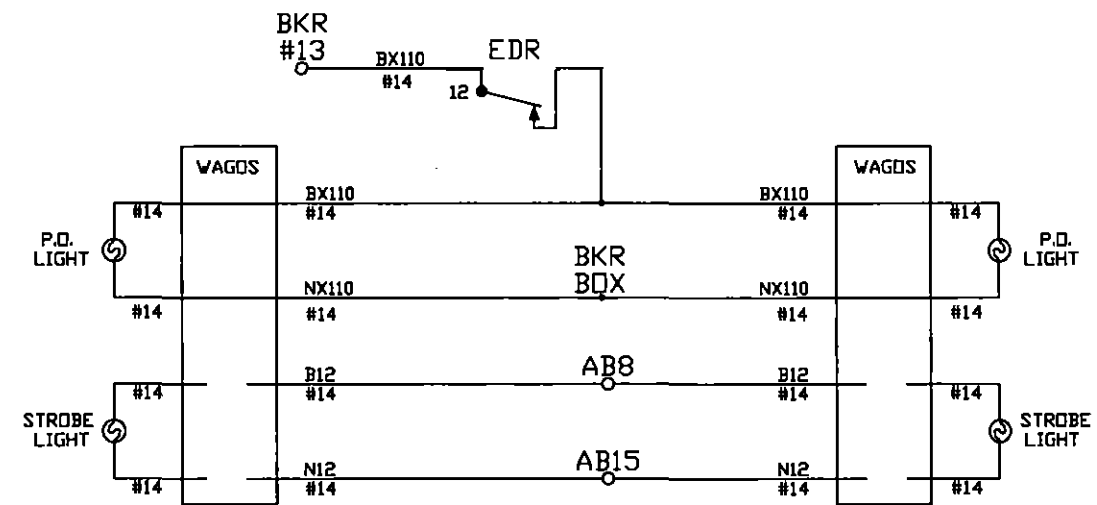
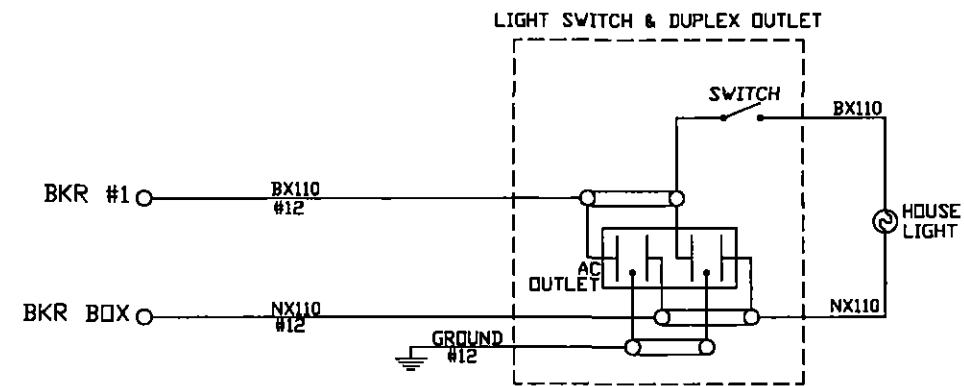
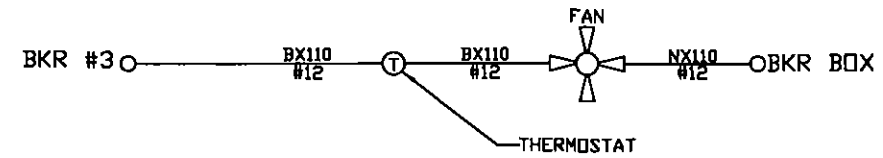
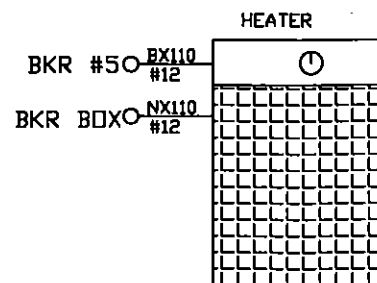
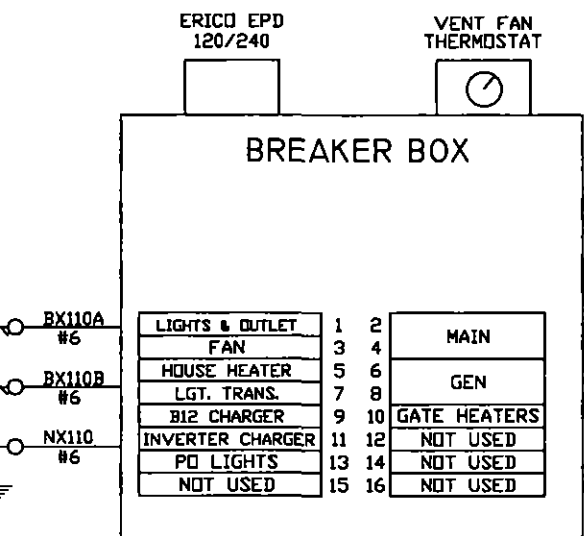


NOTES:  
 ALL WIRE ON THIS SHEET IS #10AWG UNLESS OTHERWISE NOTED.  
 \* = TEMPORARY 'GATE READY' JUMPER.

<b>DIAMONDBACK SIGNAL</b> (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	



**"CB"**

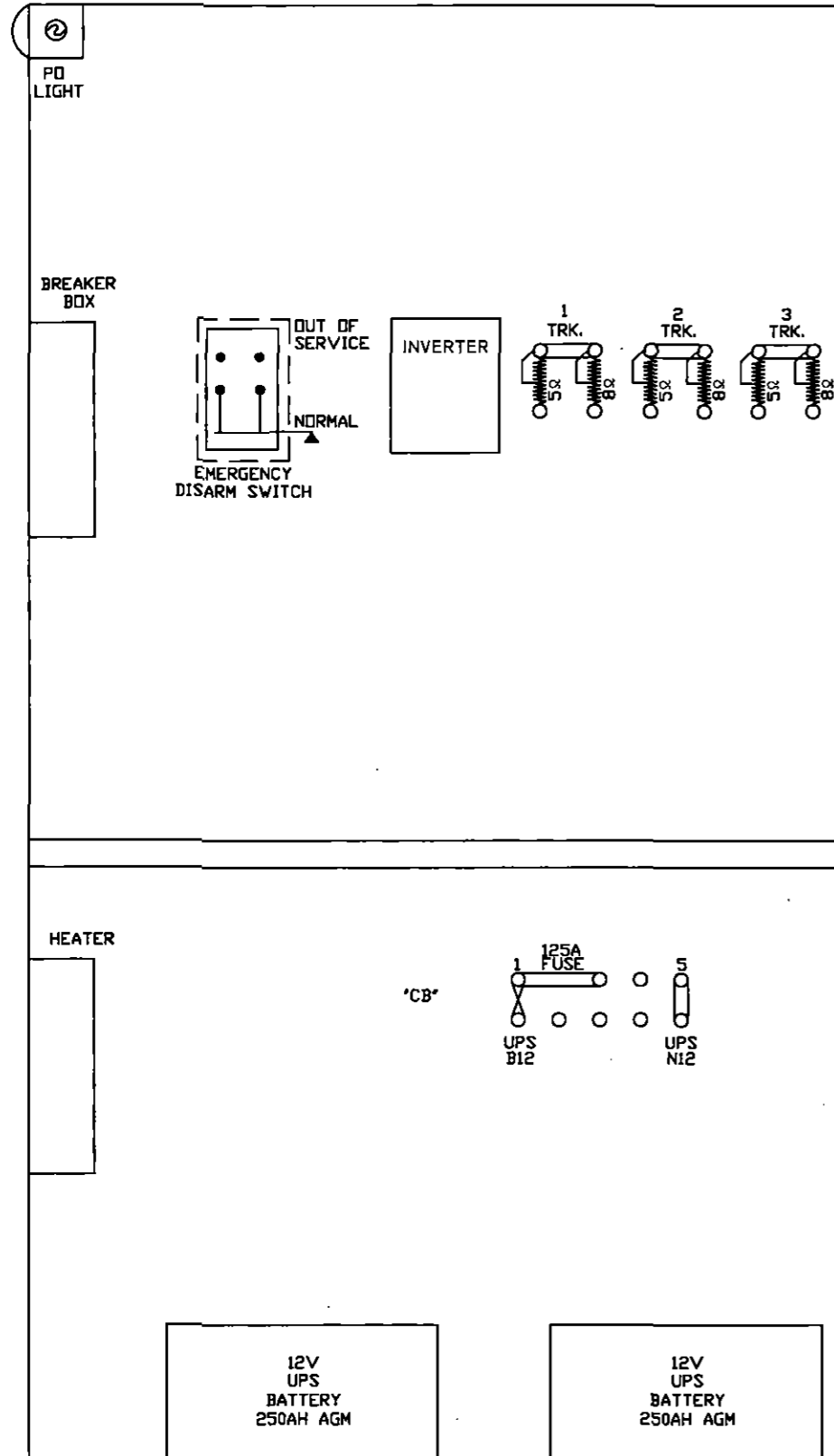


NOTE:  
ALL WIRE THIS SHEET IS #10 AWG FLEX  
UNLESS OTHERWISE NOTED.

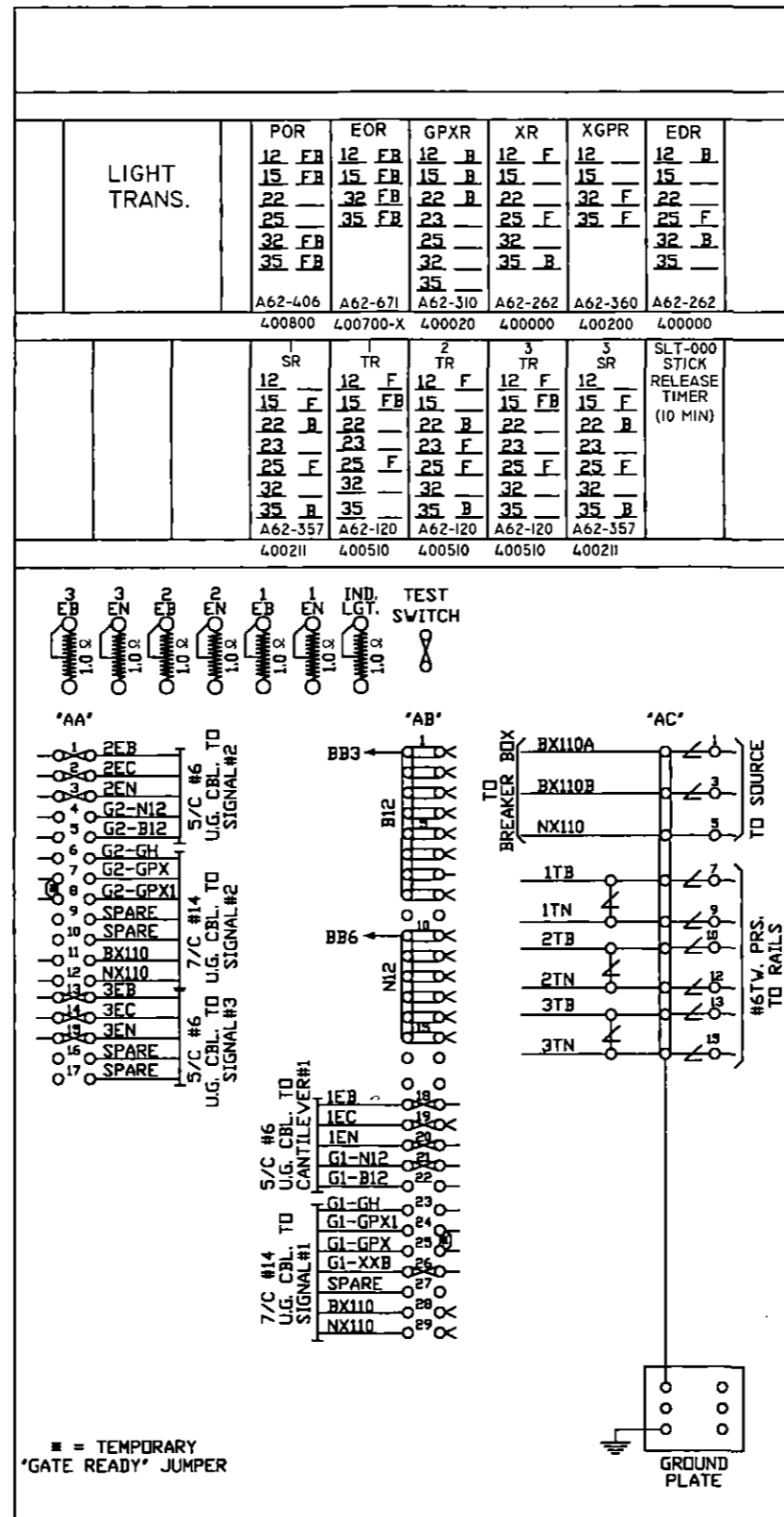
AS WIRED AS INSTALLED

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

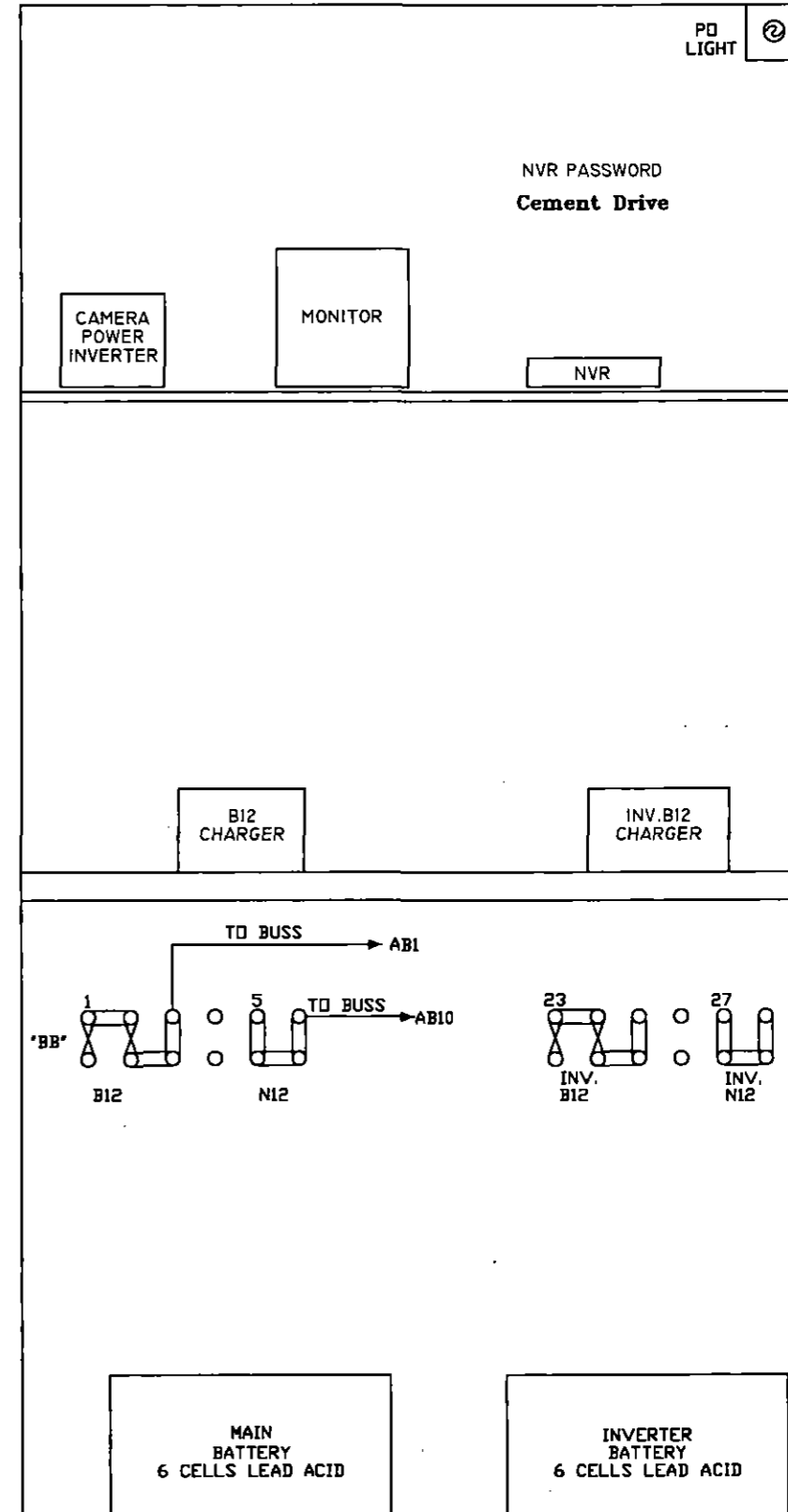
SIDE "C"



SIDE "A"



SIDE "B"



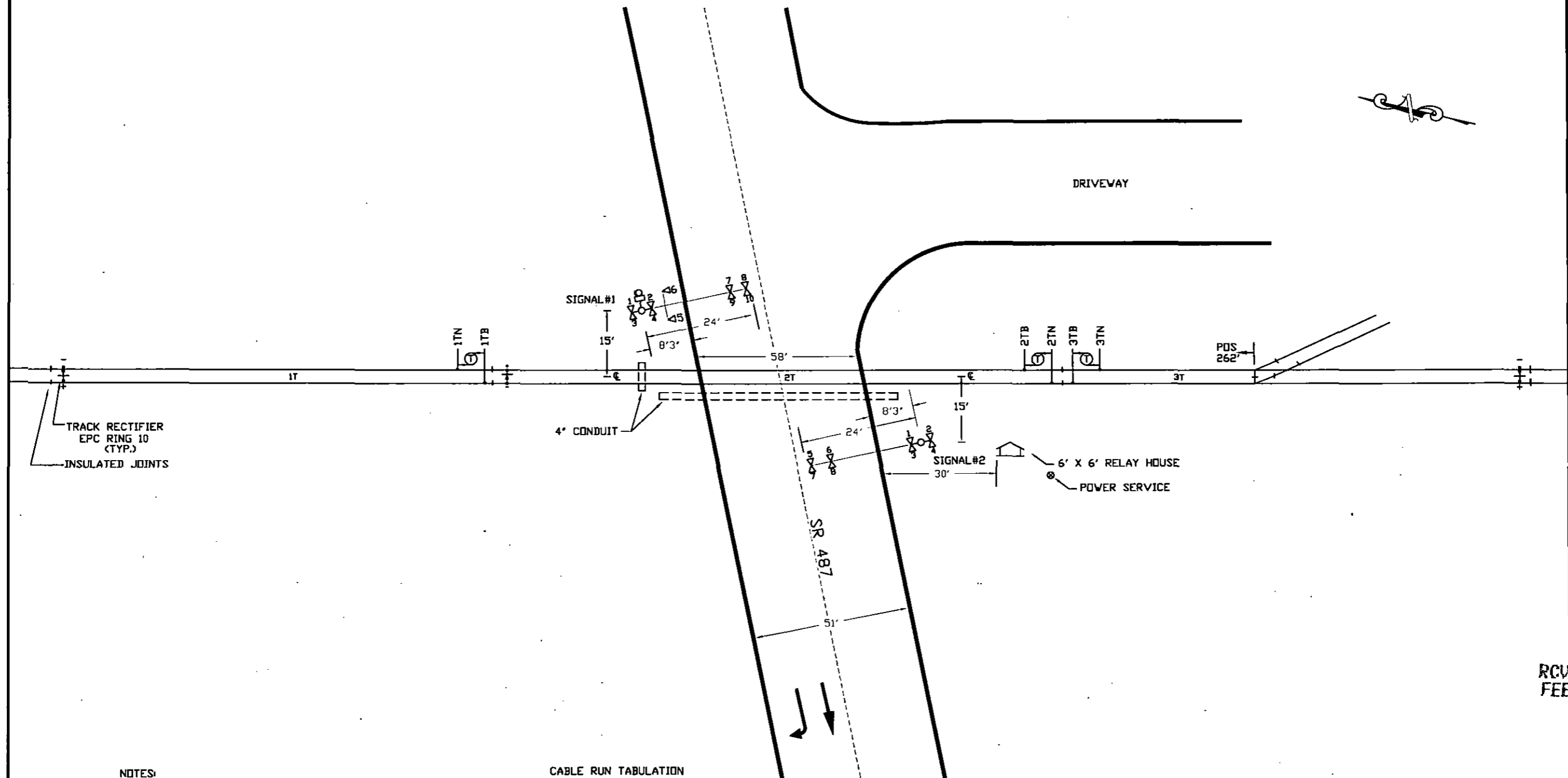
<b>DIAMONDBACK SIGNAL</b> (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED		
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE NONE	APPROVED BY:	DRAWN BY: DBS	
	DATE 03/07/2022		REVISED	
SHAMROCK ROAD - DOT # 534 828D - M.P. 12.18 PAXINOS, NORTHUMBERLAND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

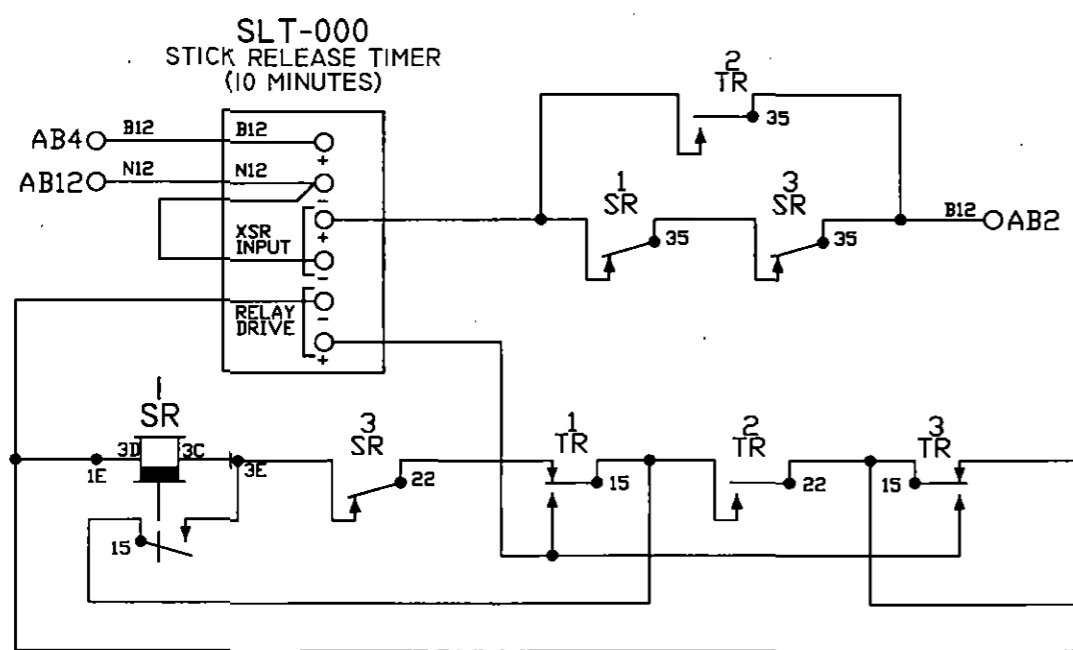
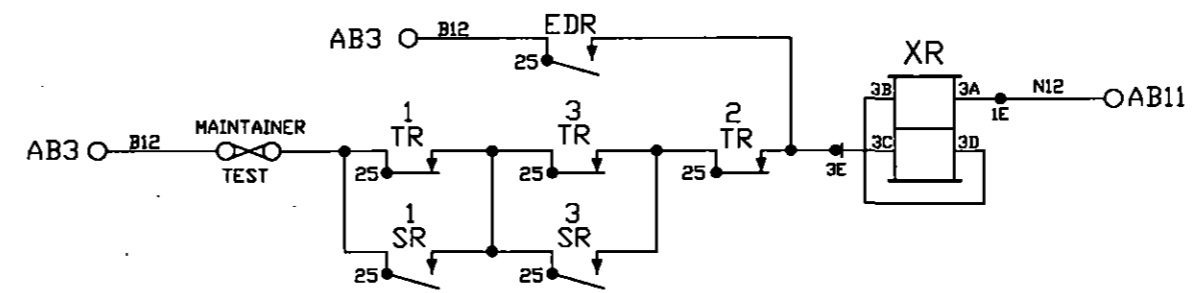
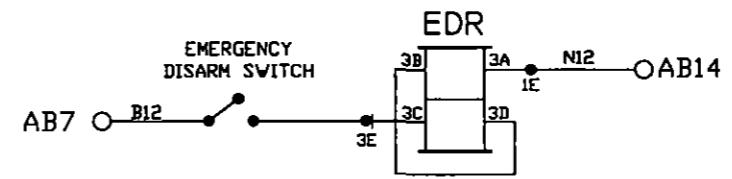
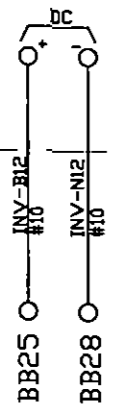
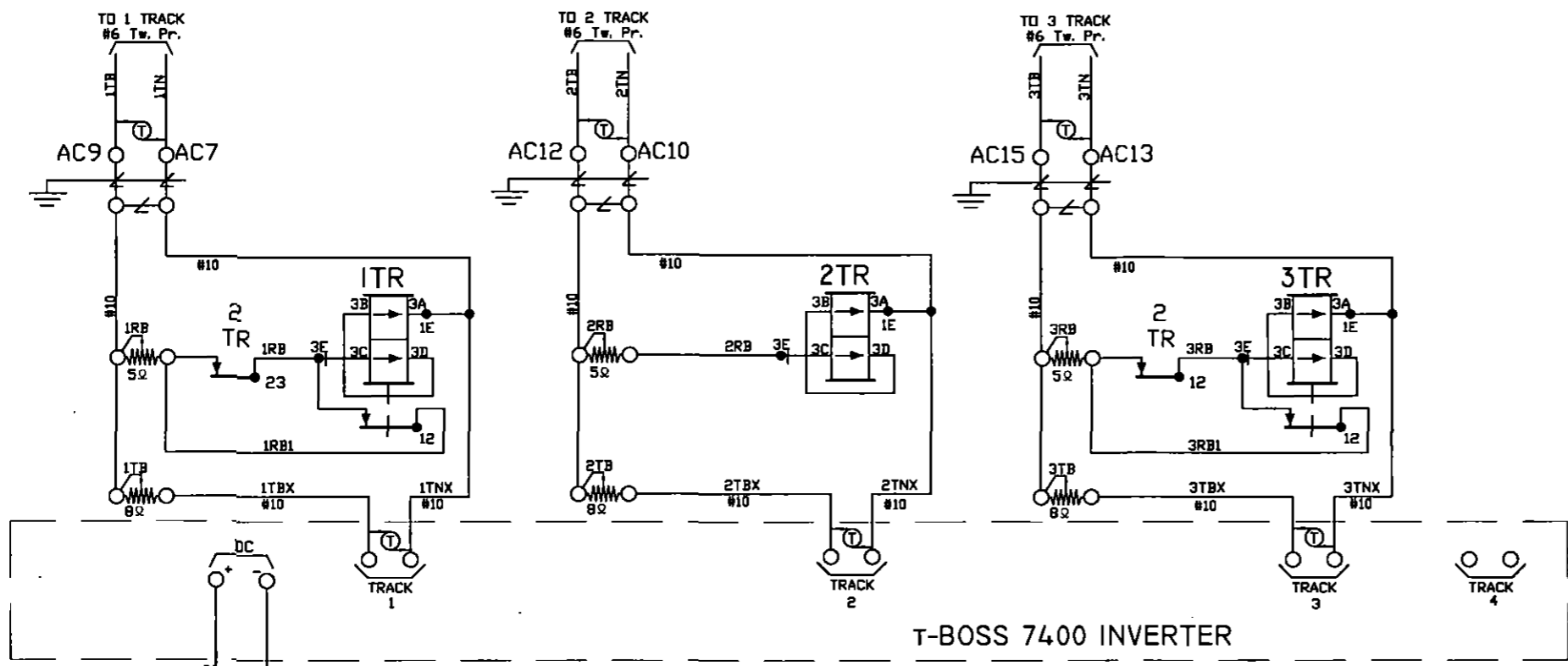
**NOTES:**

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.  $\text{\textcircled{T}}$  DENOTES TWIST PAIR.

**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

<b>DIAMONDBACK SIGNAL</b> (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. (T) DENOTES TWISTED PAIR.

**DIAMONDBACK SIGNAL**

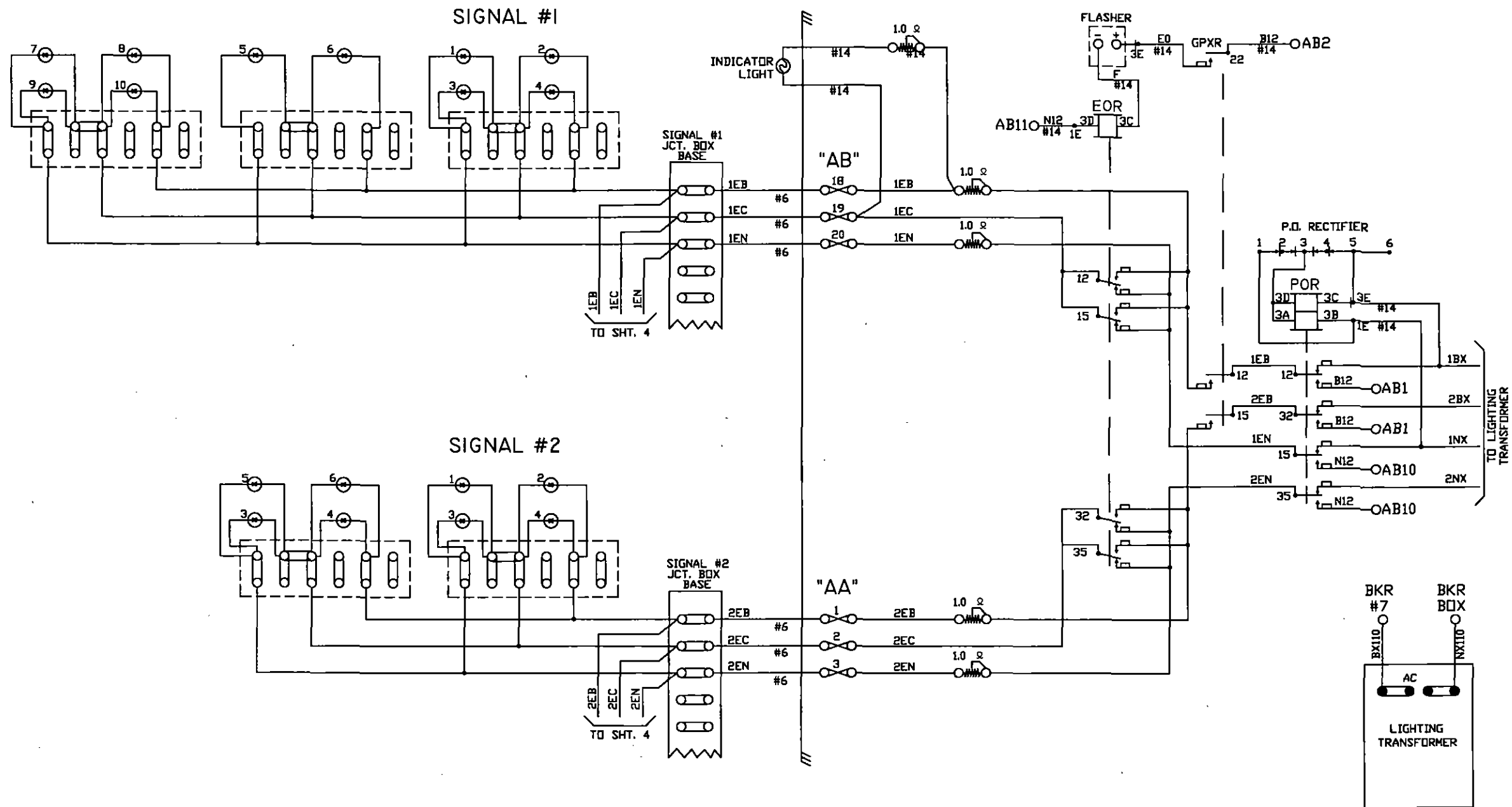
(410) 795-9601

5965 EXCHANGE DRIVE

SUITE 'D'

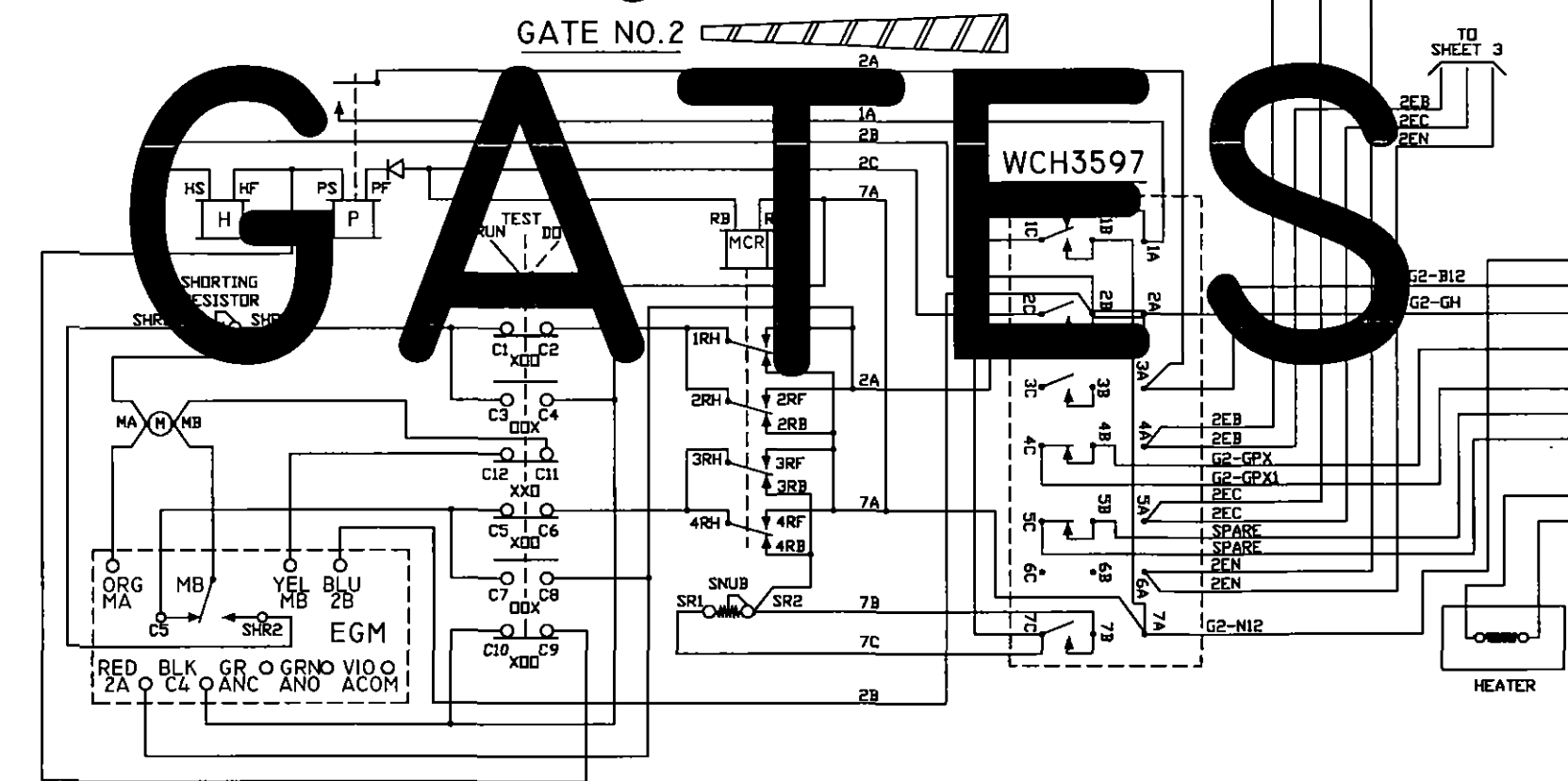
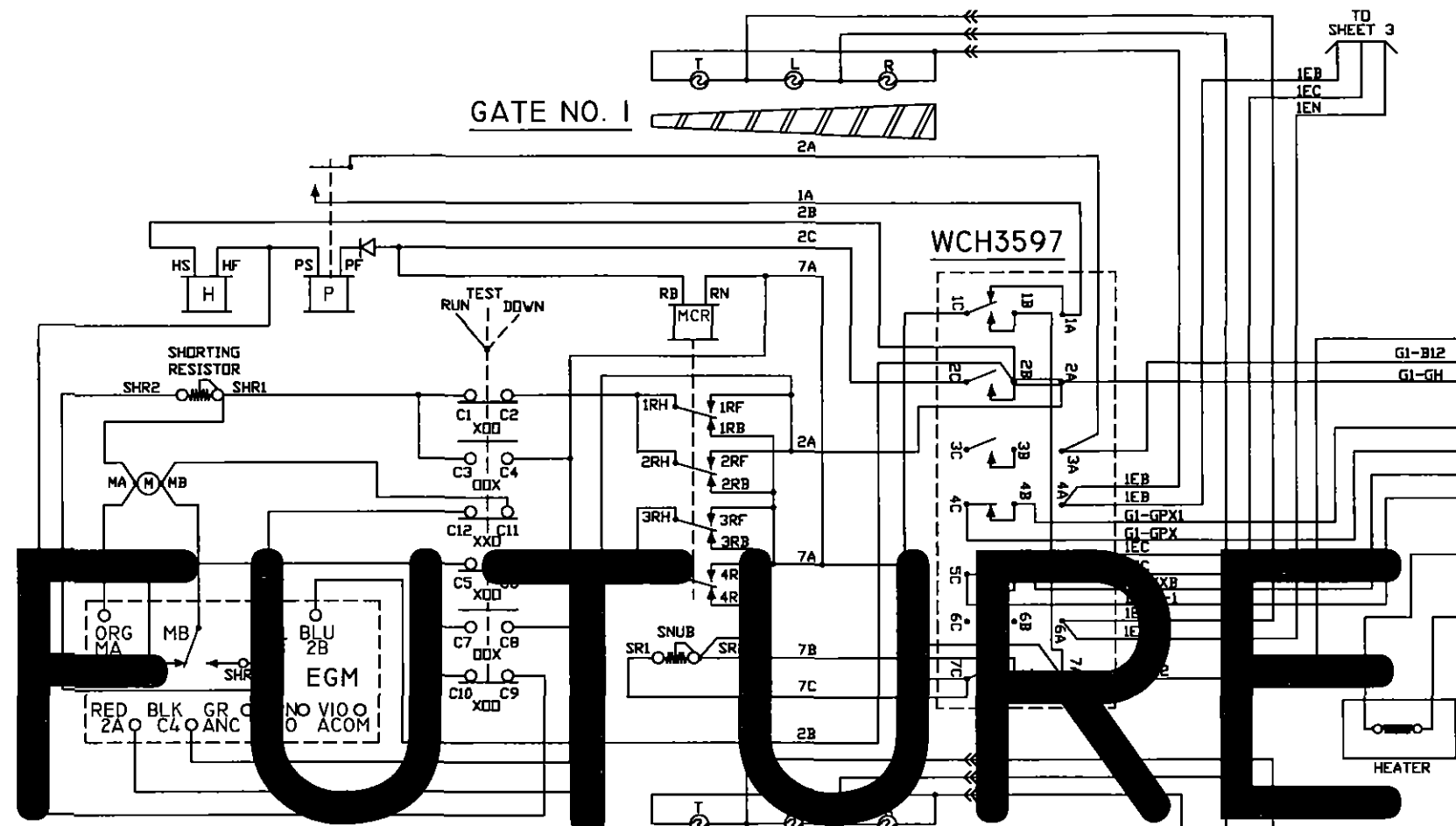
SYKESVILLE, MD 21784

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

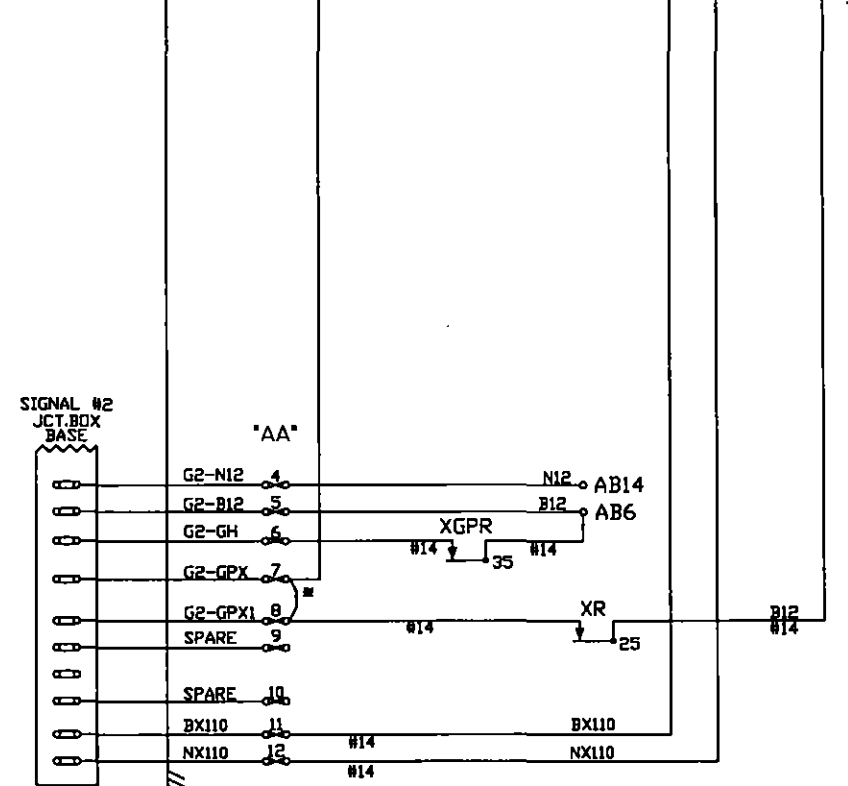
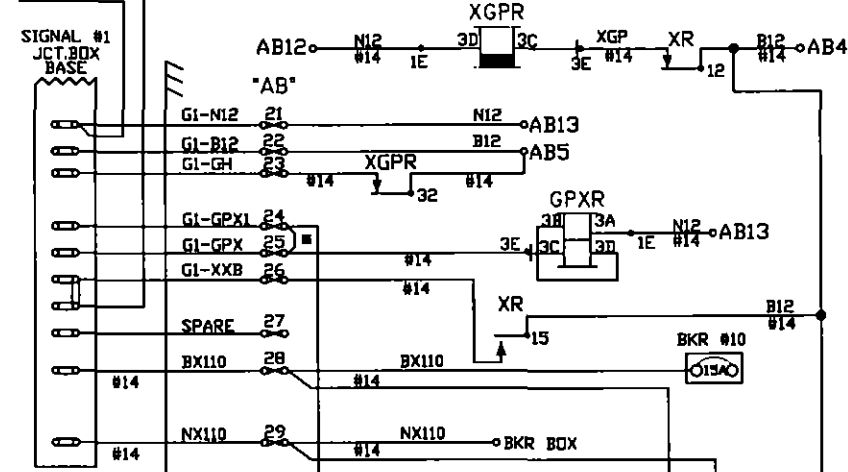


NOTE:  
ALL WIRE THIS SHEET IS #10 AWG. FLEX  
UNLESS OTHERWISE NOTED.

<b>DIAMONDBACK SIGNAL</b> (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

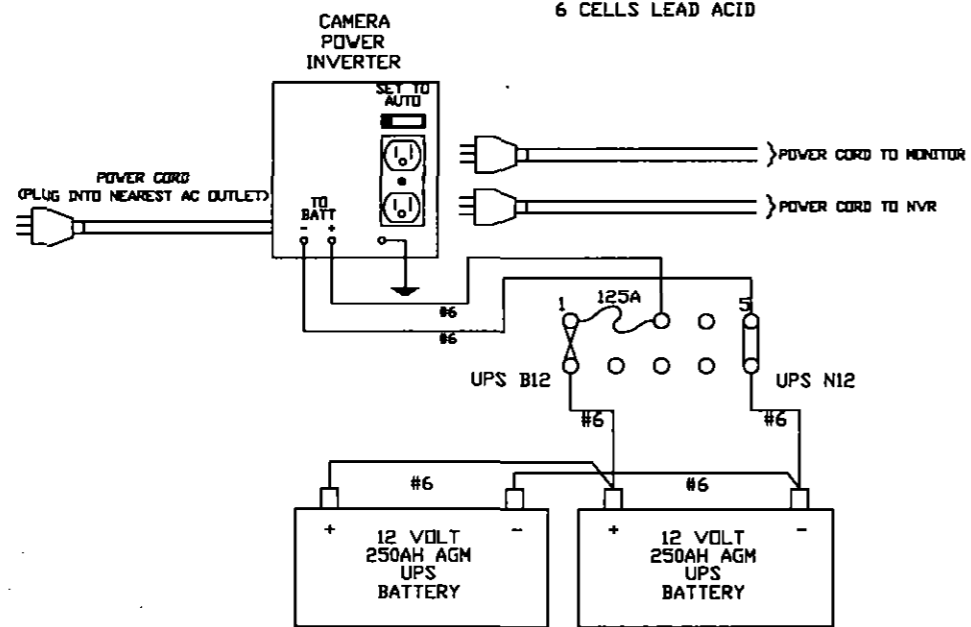
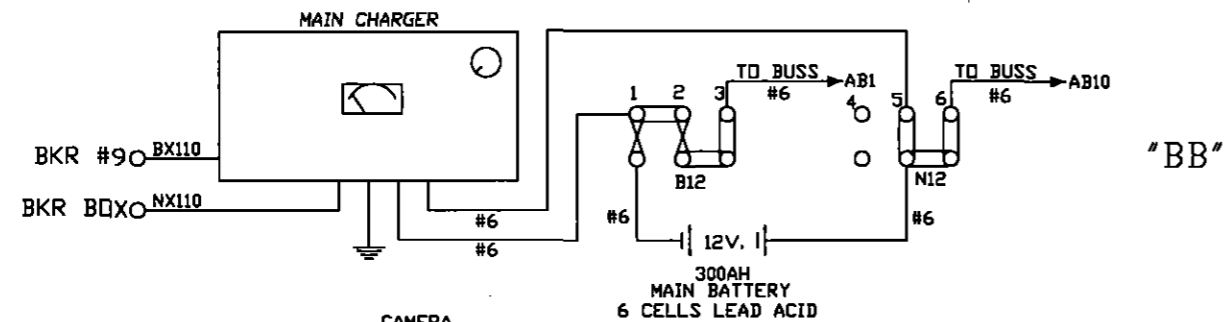
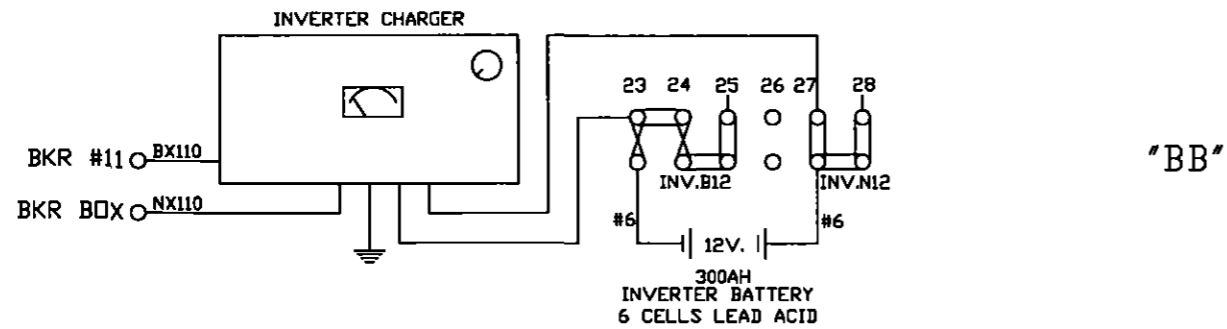


CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.



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

<b>DIAMONDBACK SIGNAL</b> (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	

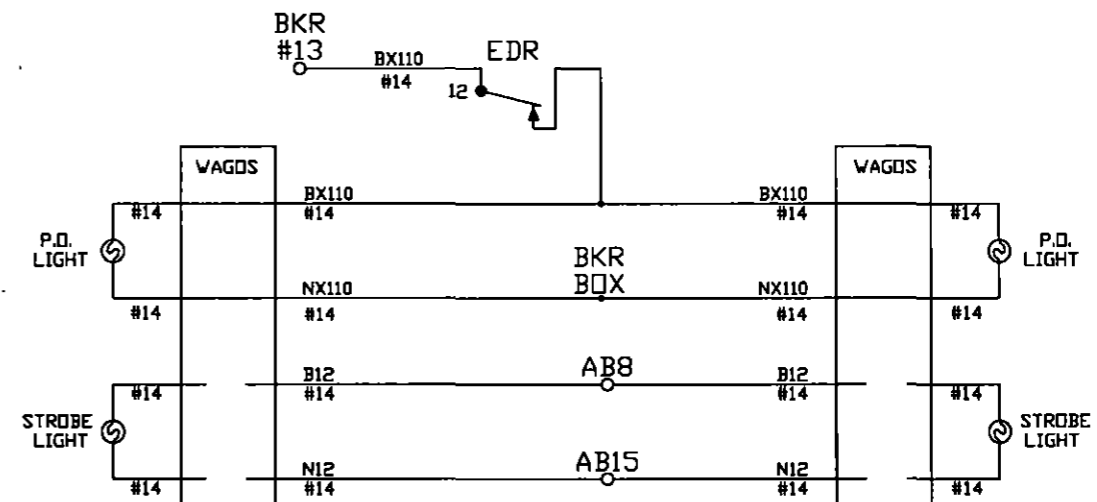
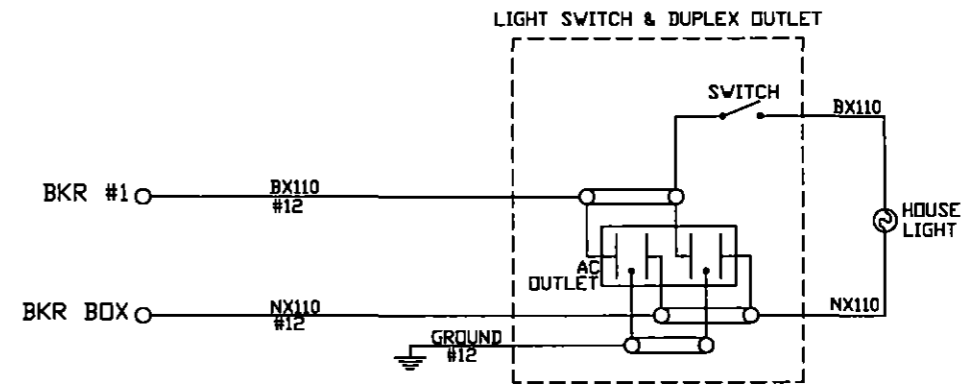
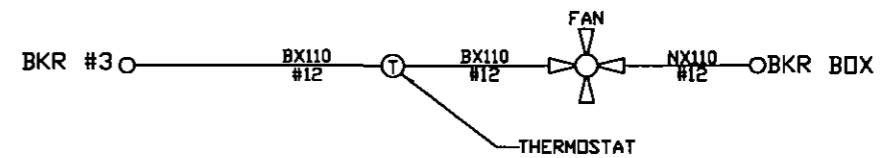
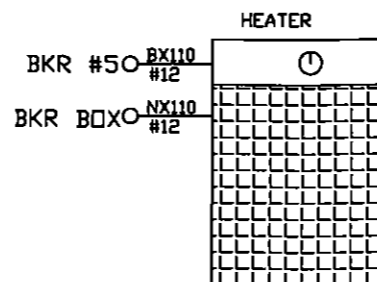
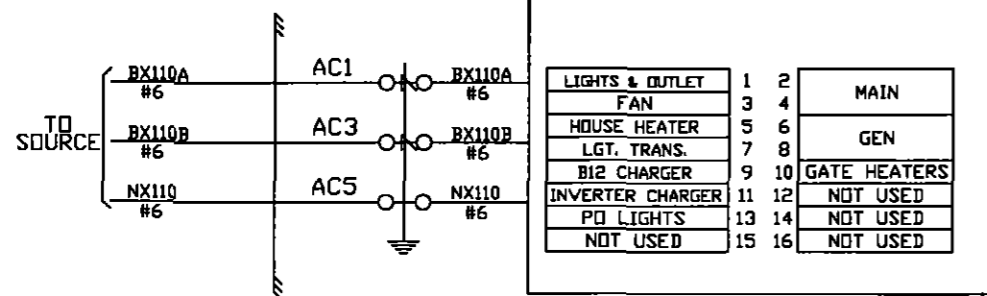


"CB"

ERICO EPD  
120/240

VENT FAN  
THERMOSTAT

BREAKER BOX



NOTE:

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

AS WIRED

AS INSTALLED

**DIAMONDBACK  
SIGNAL**

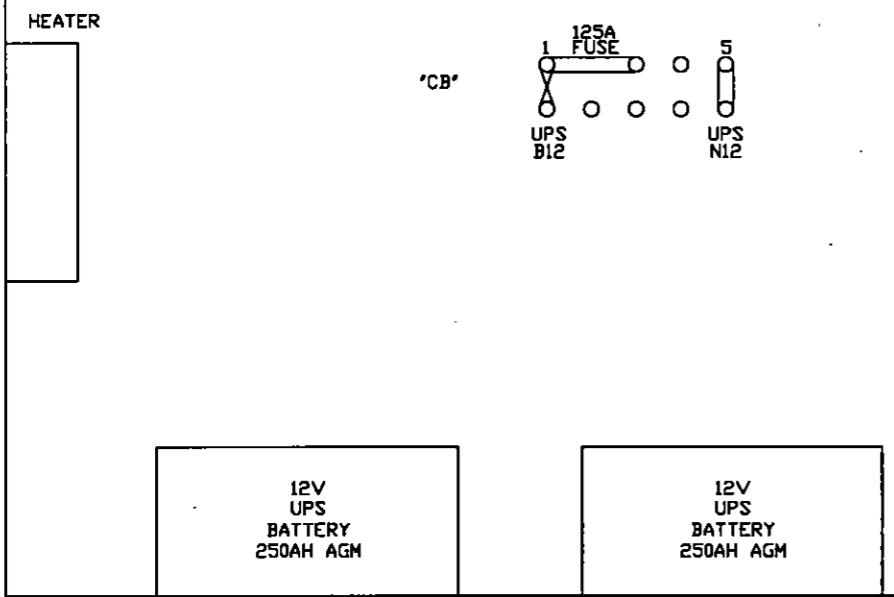
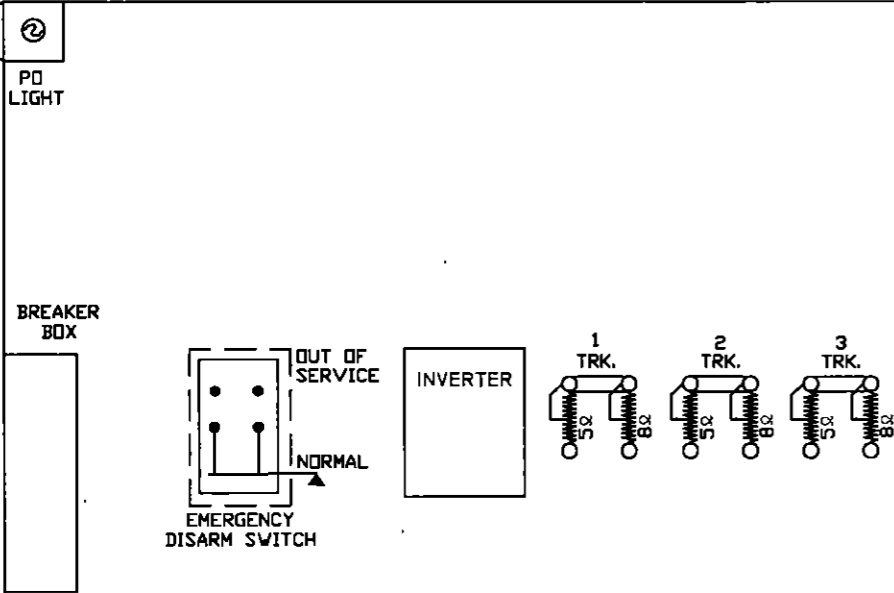
(410) 795-9601  
5965 EXCHANGE DRIVE  
SUITE "D"  
SYKESVILLE, MD  
21784

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

SIDE "C"

SIDE "A"

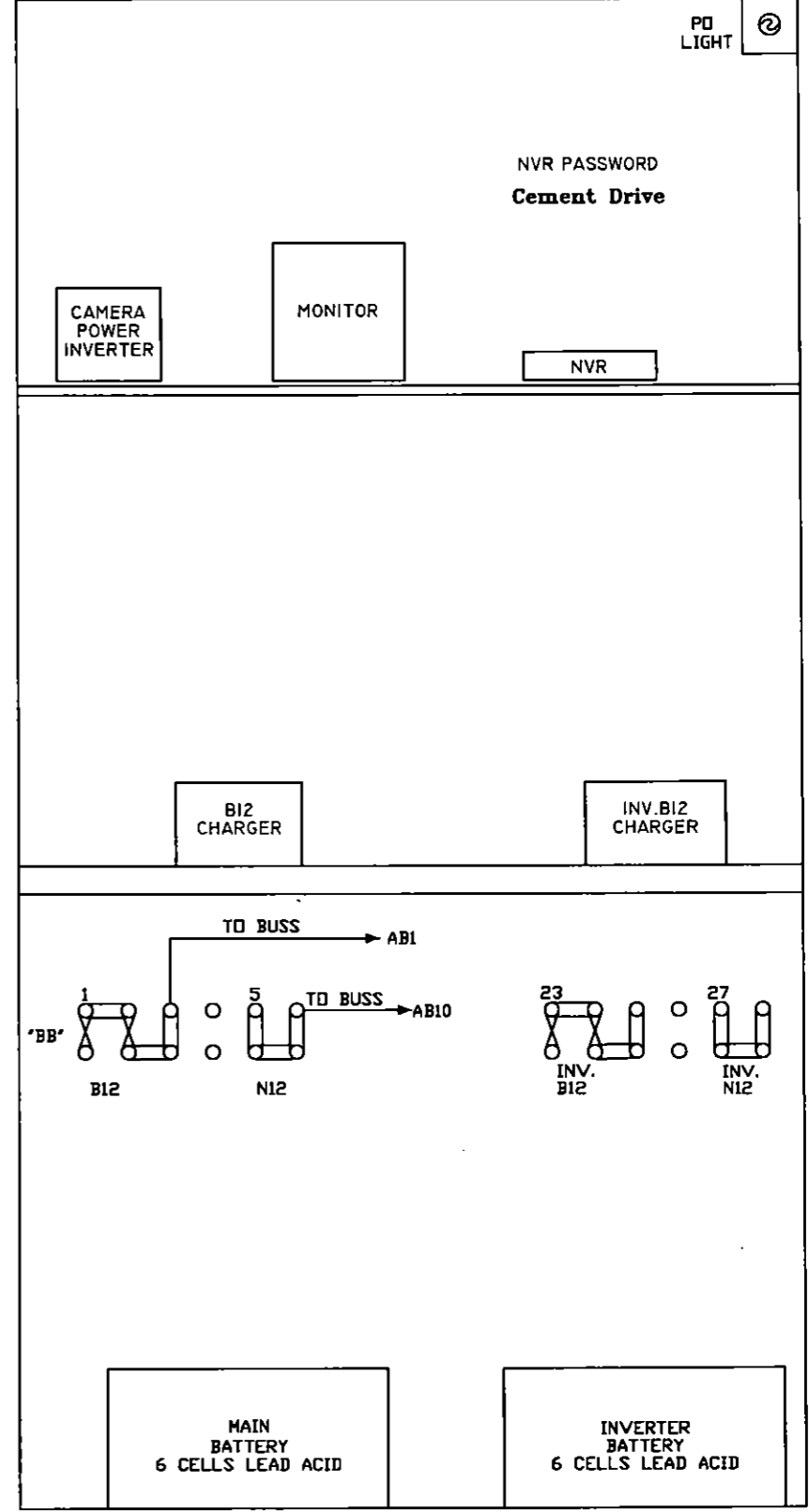
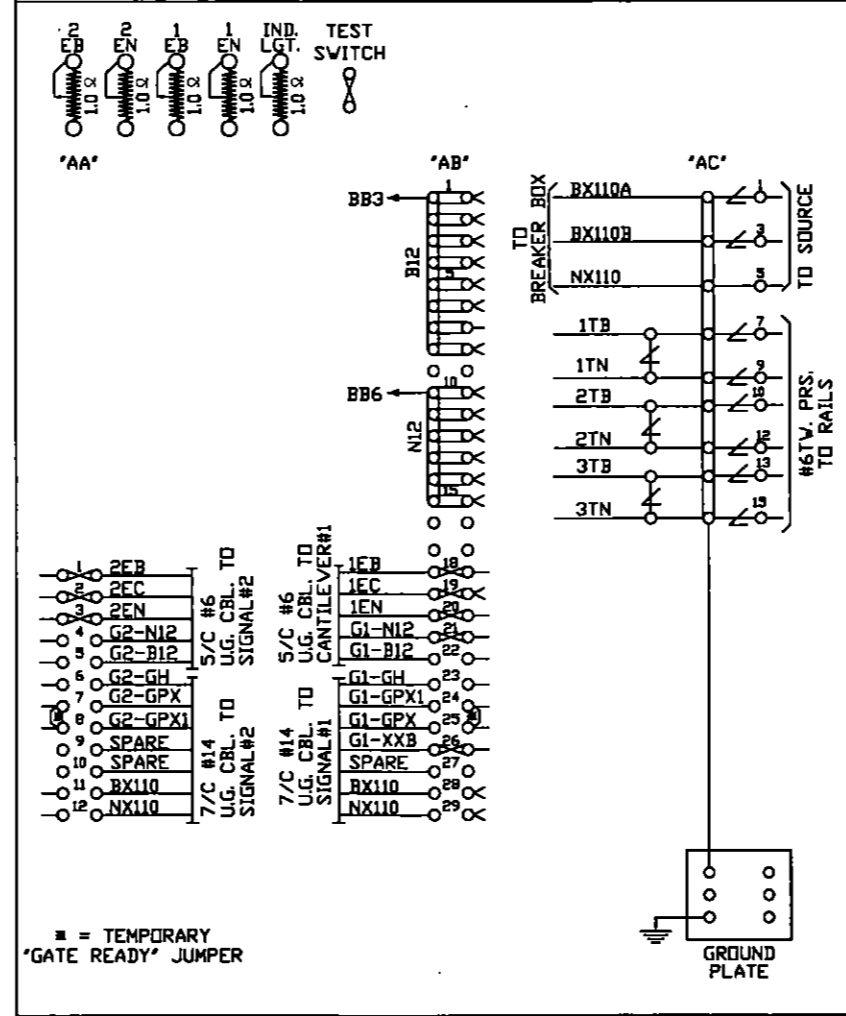
SIDE "B"



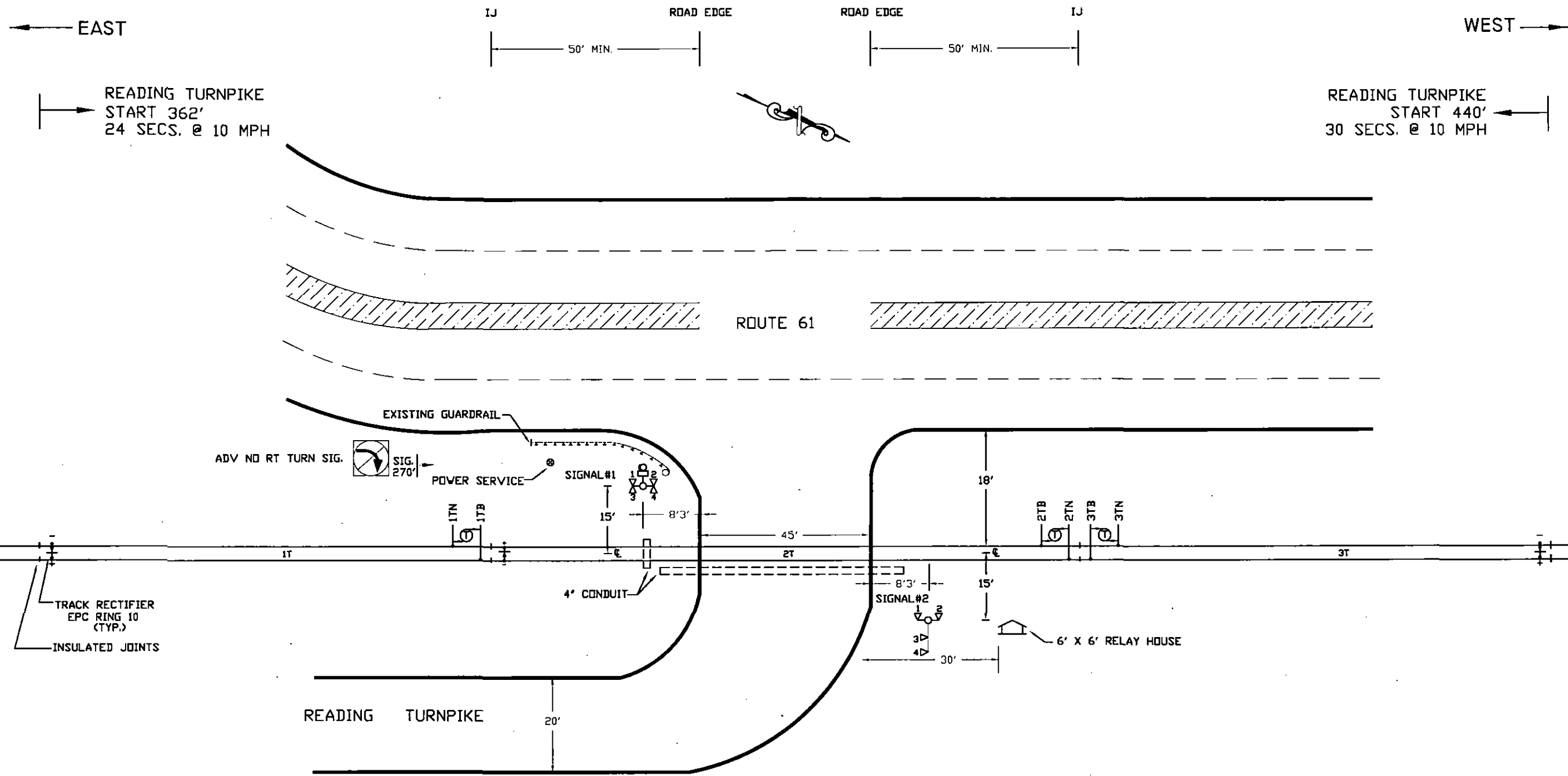
LIGHT TRANS.	POR	EOR	GPXR	XR	XGPR	EDR
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15 FB	15 FB	15 B	15	15	15	
22	32 FB	22 B	22	32 F	22	
25	35 FB	23	25 F	35 F	25 F	
32 FB		25	32		32 B	
35 FB		32	35 B		35	
		35				
A62-406	A62-671	A62-310	A62-262	A62-360	A62-262	
400800	400700-X	400020	400000	400200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

SR	TR		SR		SLT-000 STICK RELEASE TIMER (10 MIN)
	1	2	3	3	
12	12 F	12 F	12 F	12 SR	
15	15 F	15 FB	15 FB	15 F	
22	22 B	22	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	



<b>DIAMONDBACK SIGNAL</b> (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



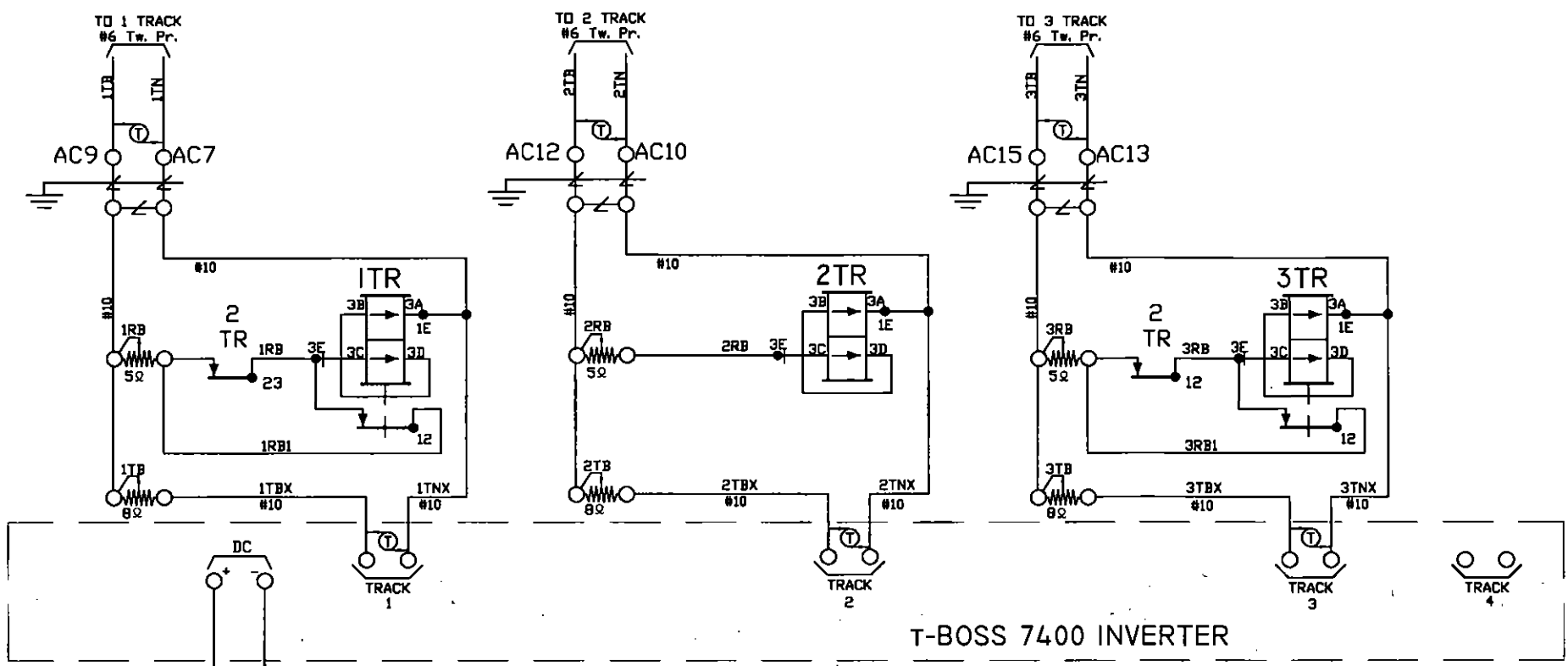
- NOTES:**
1. MATERIAL & INSTALLATION TO BE IN ACCORDANCE WITH MUTCD, STATE AND RAILROAD STANDARDS.
  2. ALL DIMENSIONS ARE APPROXIMATE AND MAY VARY DUE TO ACTUAL FIELD CONDITIONS.
  3. FLASHLIGHT SIGNALS & GATE LIGHTS TO BE LIGHT EMITTING DIODE ASSEMBLIES, (LED).
  4.  $\textcircled{T}$  DENOTES TWIST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

**CABLE RUN TABULATION**

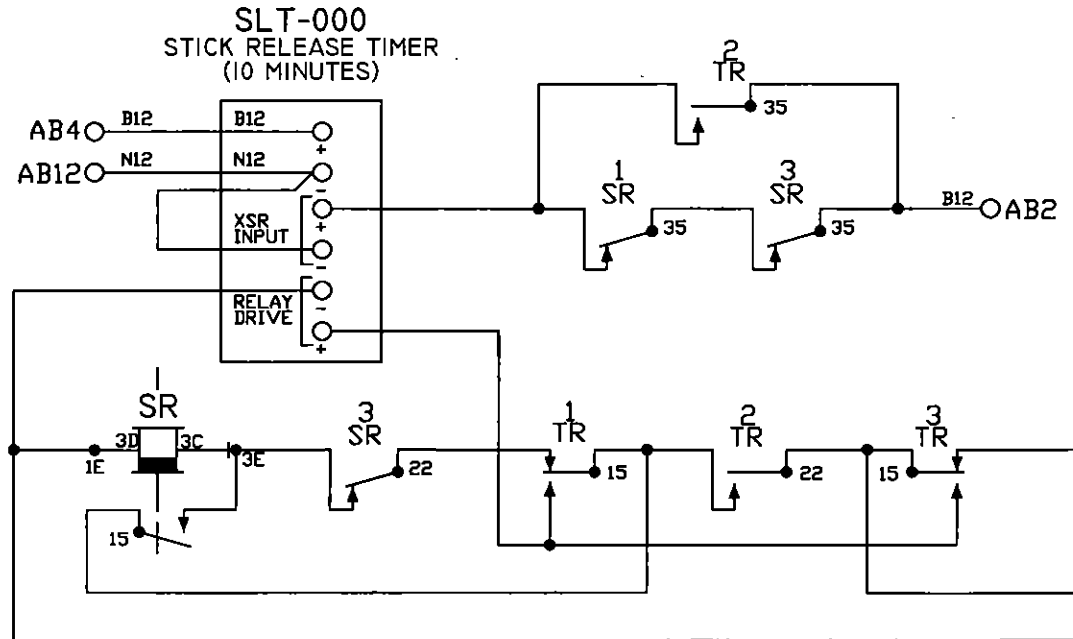
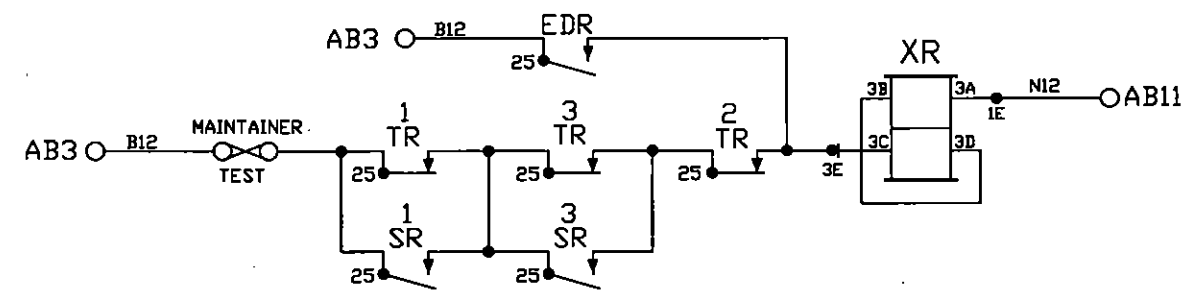
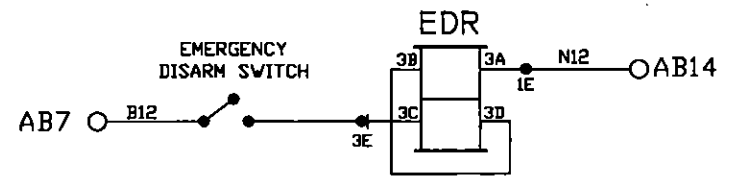
HOUSE TO SIGNAL #1	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO SIGNAL #2	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO AC SERVICE	- 3/C #9 UG CABLE
HOUSE TO 1TN & 1TB	- 2/C #6 TWISTED PAIR
HOUSE TO 2TN & 2TB	- 2/C #6 TWISTED PAIR
HOUSE TO 3TN & 3TB	- 2/C #6 TWISTED PAIR

RCVD PUC SEC BUR  
FEB 23 2023 AM 10:54

<b>DIAMONDBACK SIGNAL</b>  (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	

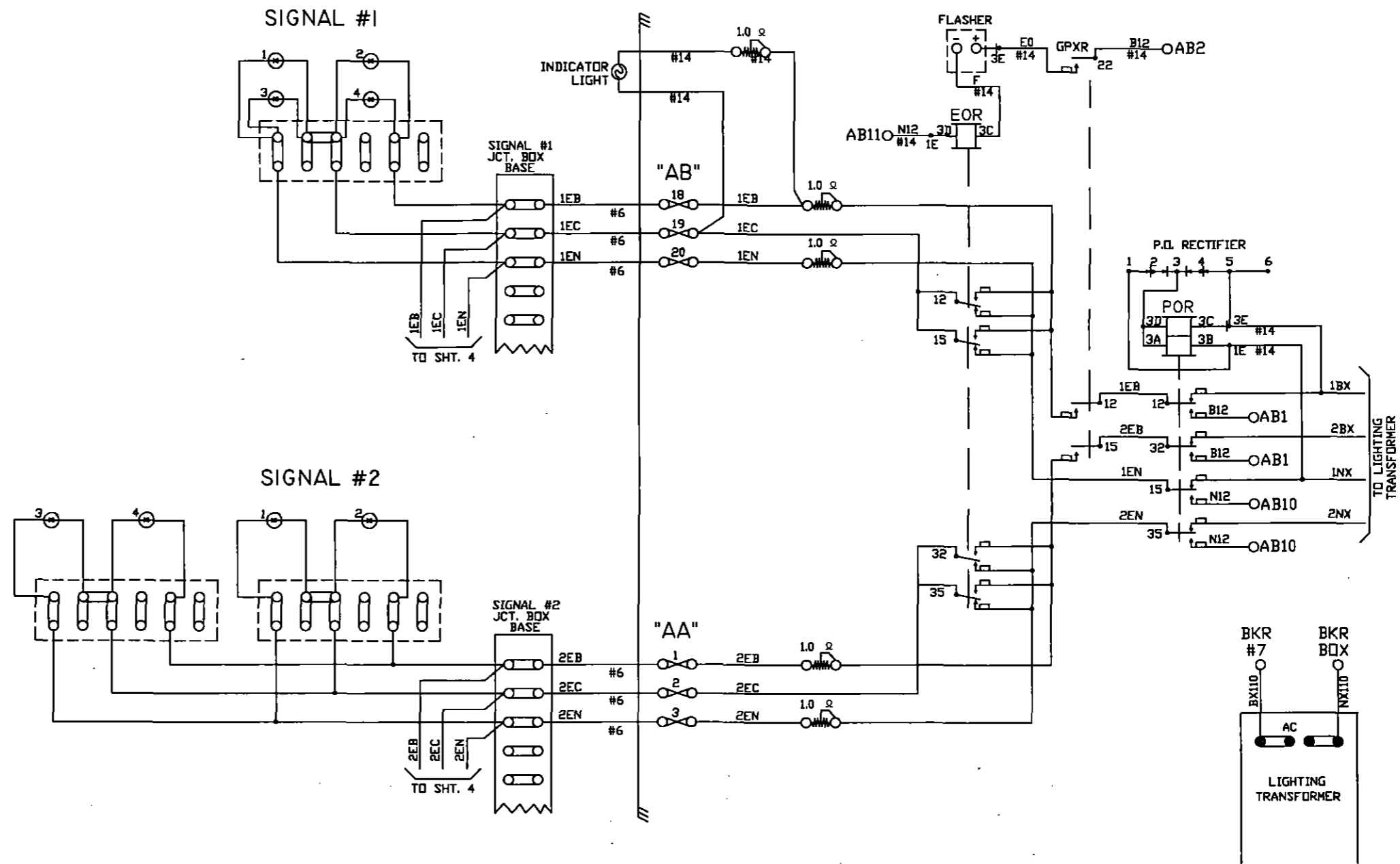


T-BOSS 7400 INVERTER



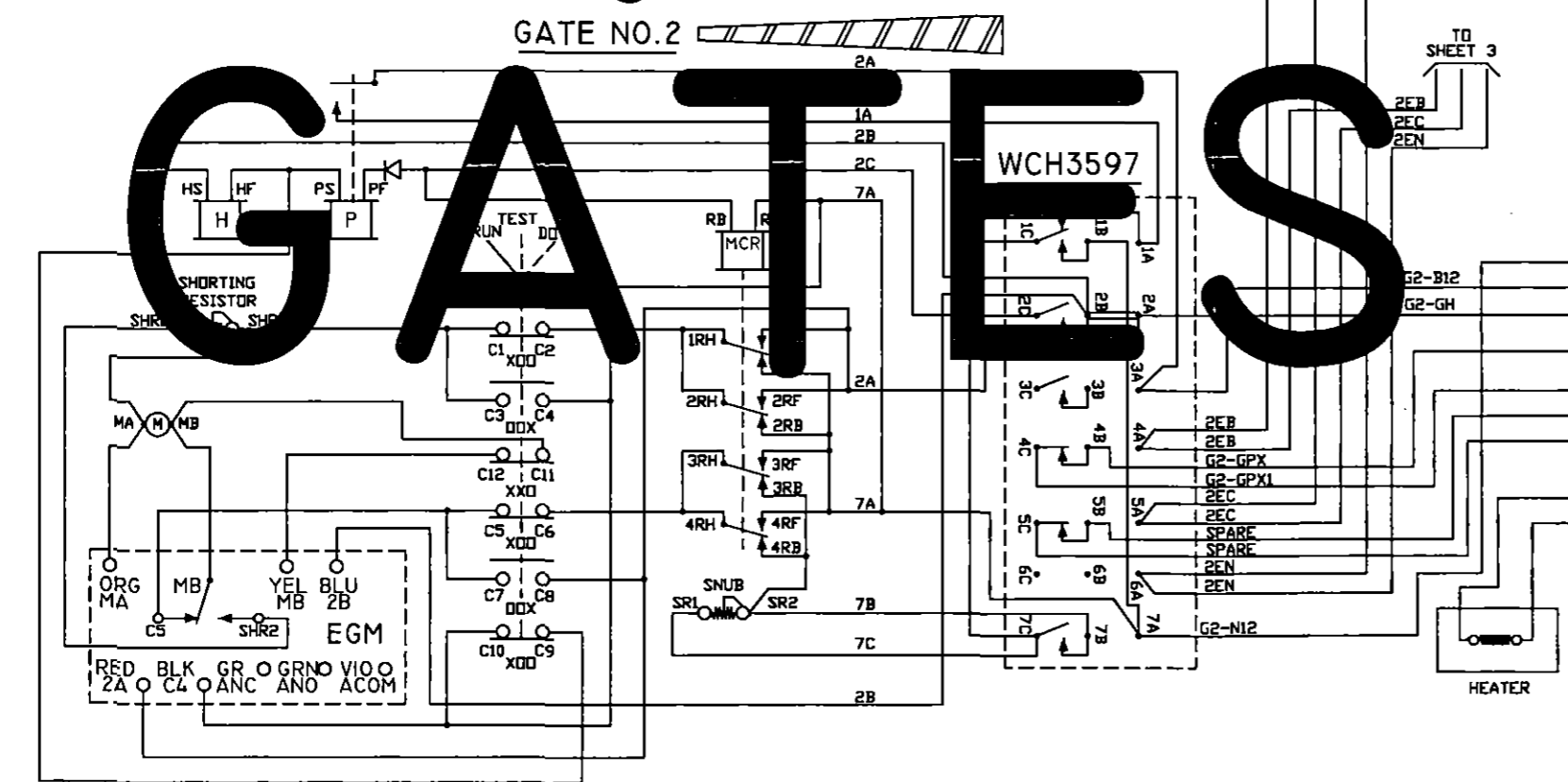
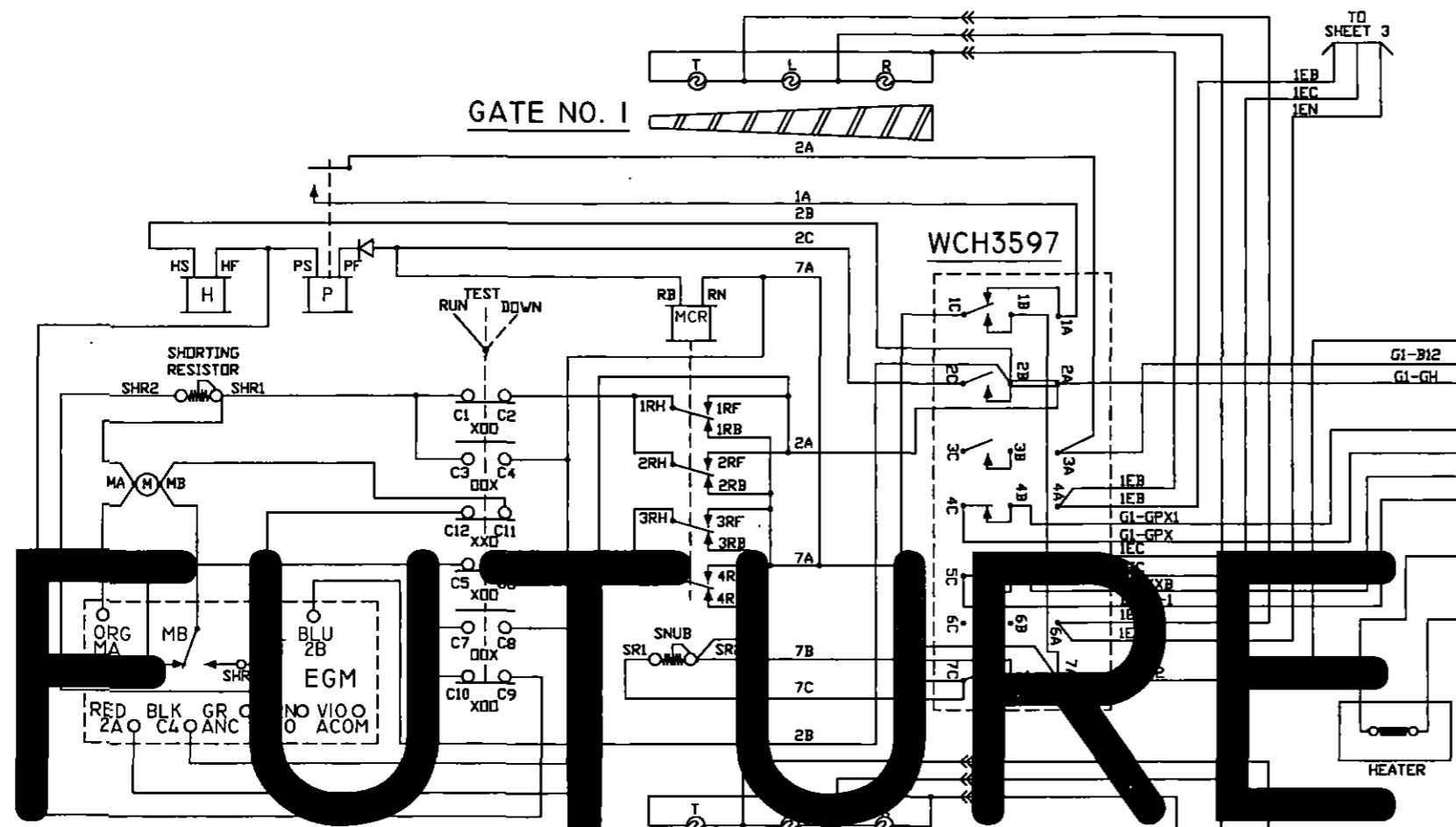
- NOTES:
1. ALL WIRE THIS SHEET IS #14 AWG FLEX UNLESS OTHERWISE NOTED.
  2.  $\text{\textcircled{T}}$  DENOTES TWISTED PAIR.

<b>DIAMONDBACK SIGNAL</b> (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

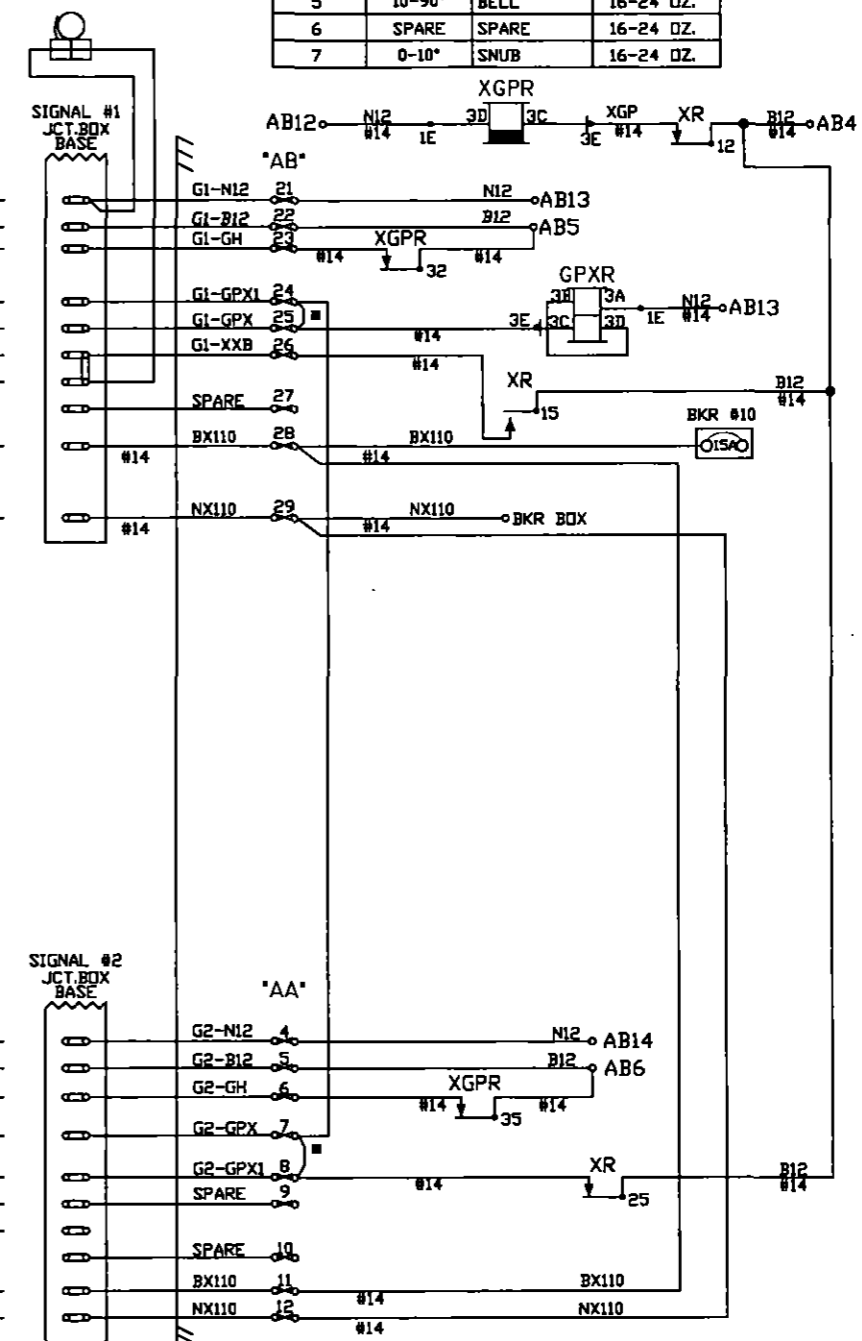


NOTE:  
ALL WIRE THIS SHEET IS #10 AWG. FLEX  
UNLESS OTHERWISE NOTED.

<b>DIAMONDBACK SIGNAL</b> (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	

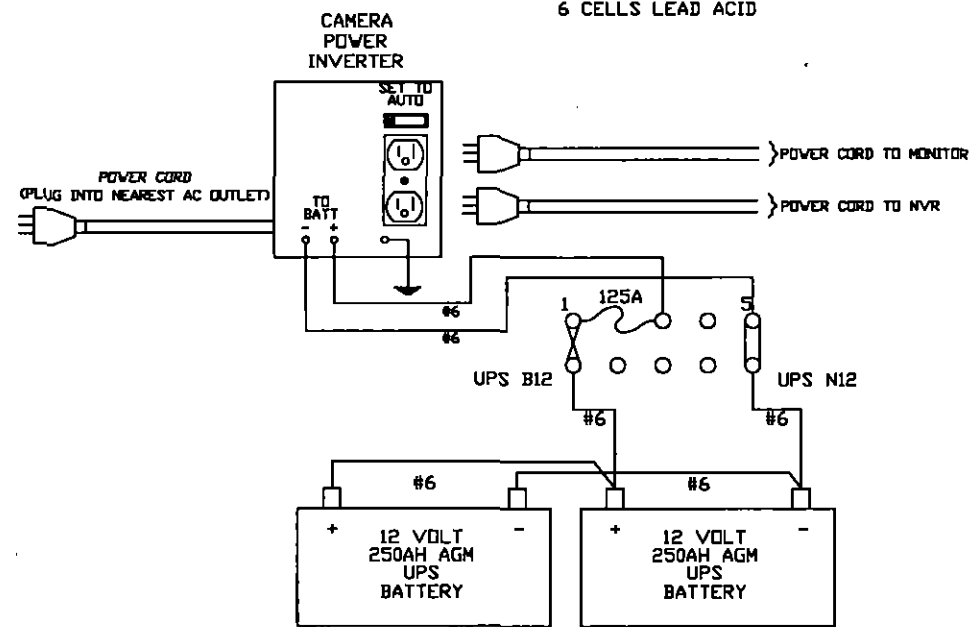
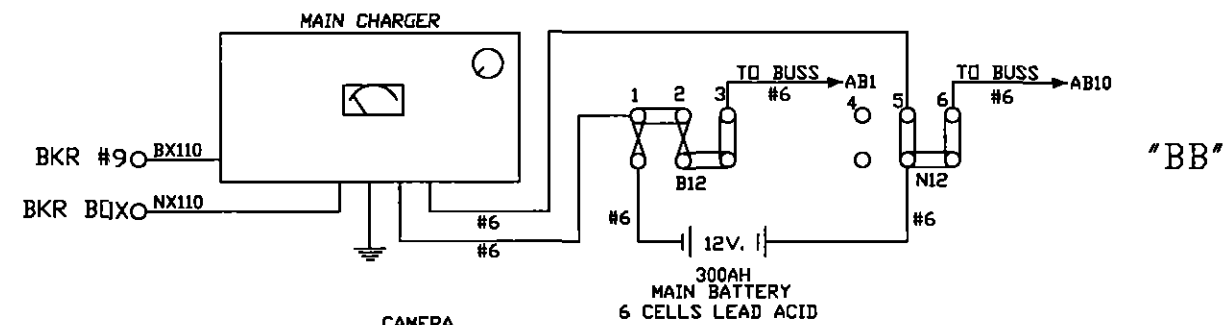
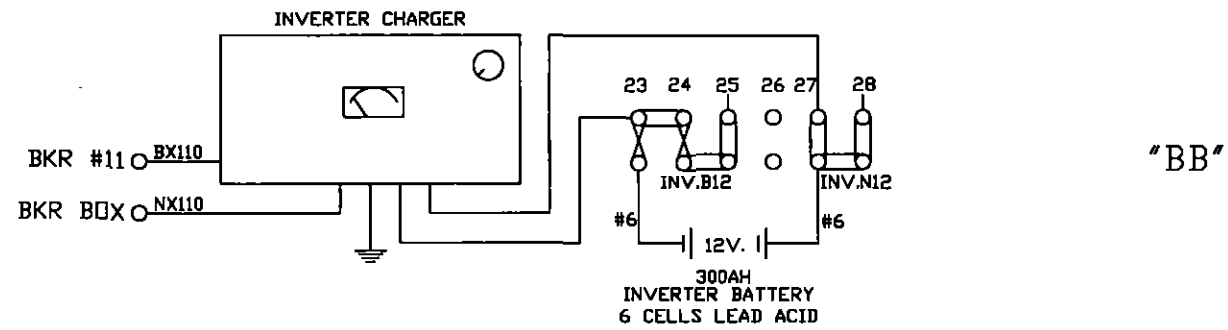


CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.

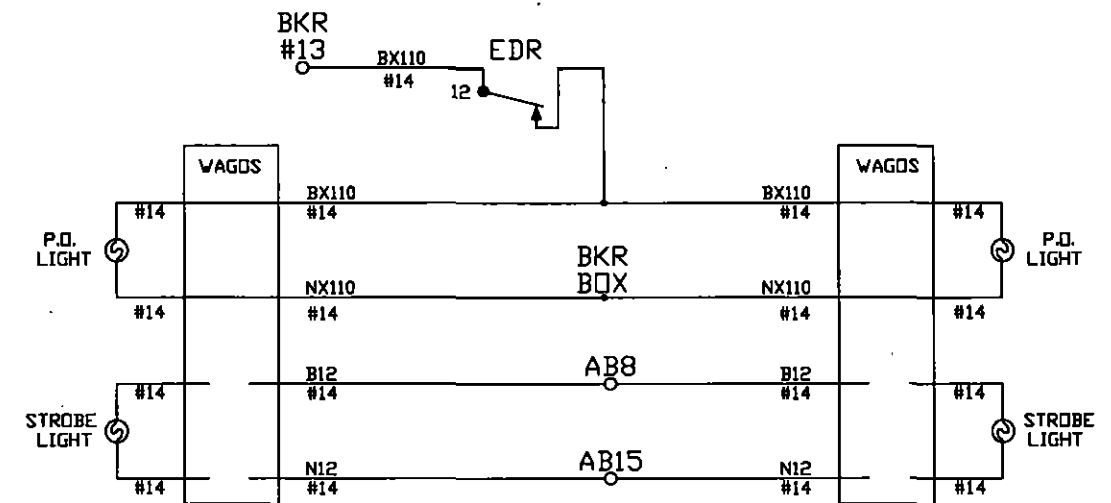
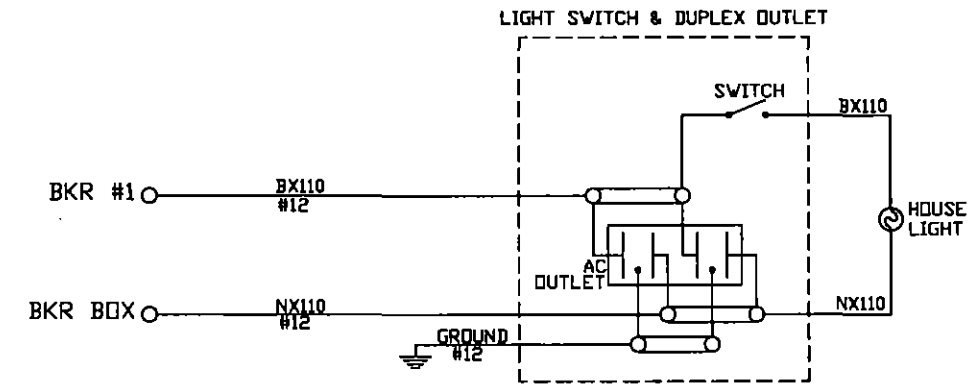
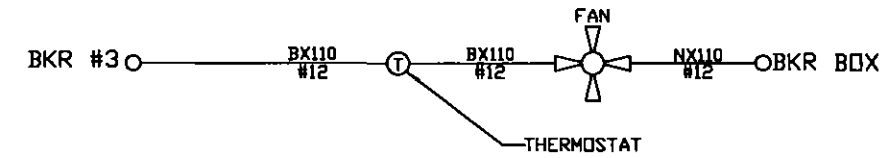
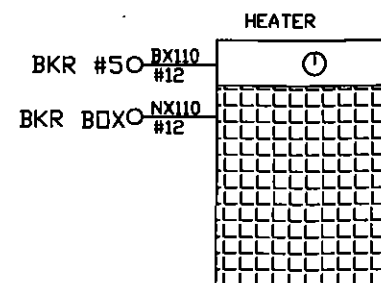
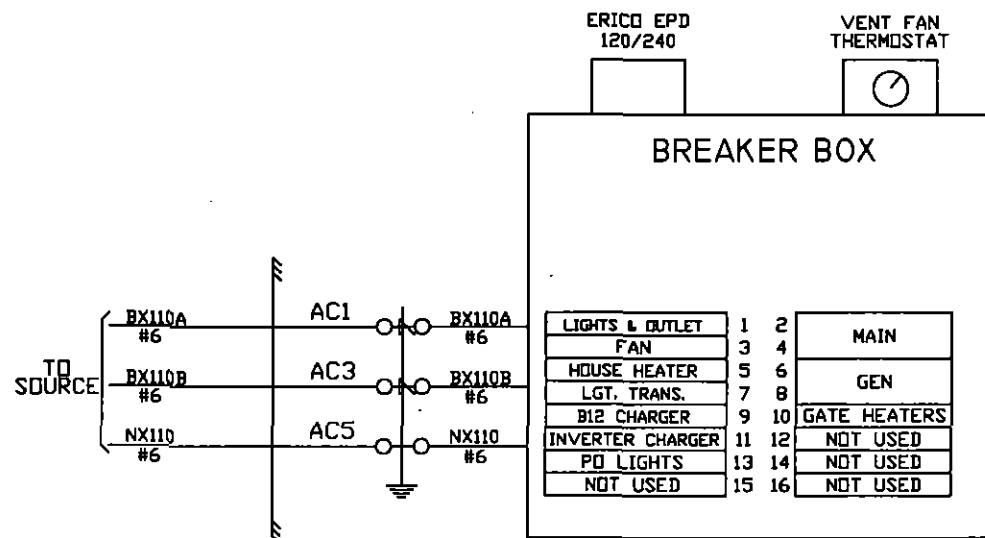


NOTES:  
 ALL WIRE ON THIS SHEET IS #10AWG UNLESS OTHERWISE NOTED.  
 ■ = TEMPORARY 'GATE READY' JUMPER.

<b>DIAMONDBACK SIGNAL</b> (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 'C'		DRAWING NUMBER 13.59	



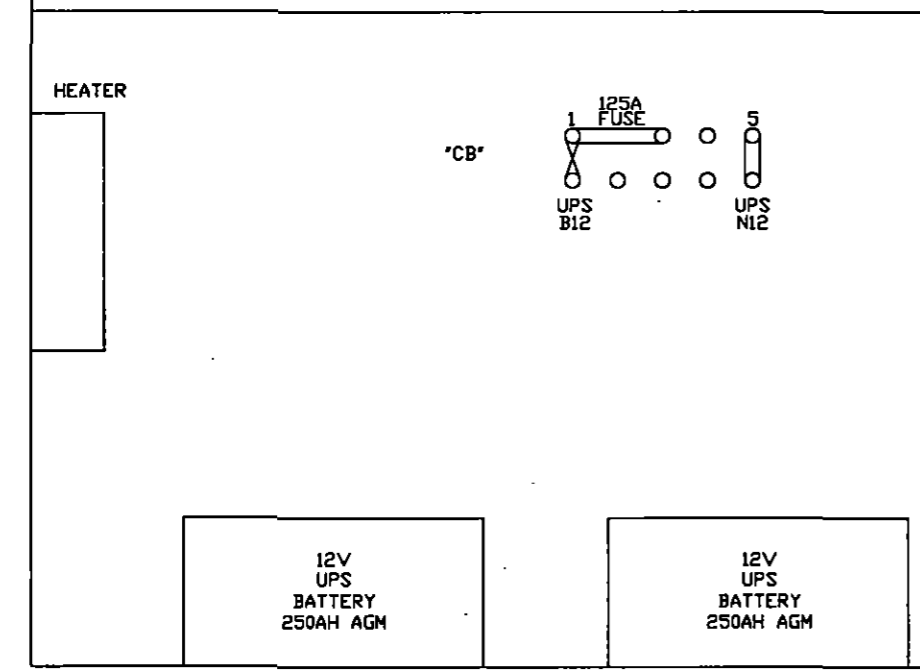
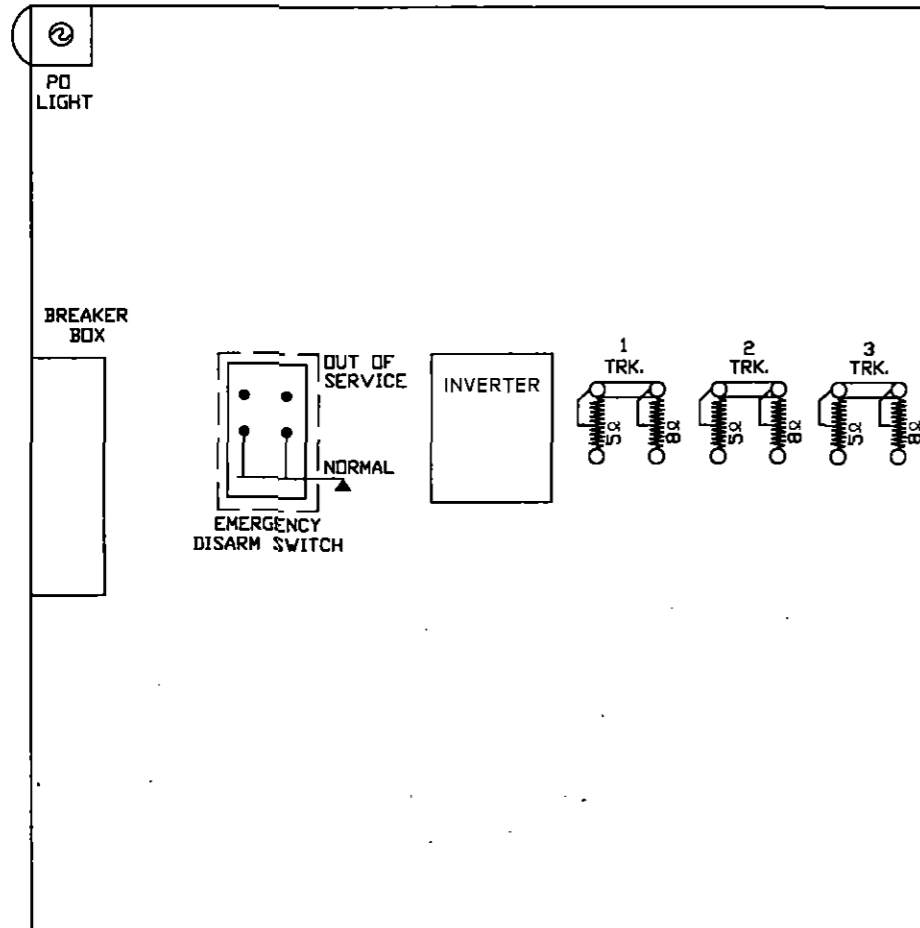
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NOTE:  
ALL WIRE THIS SHEET IS #10 AWG FLEX  
UNLESS OTHERWISE NOTED.

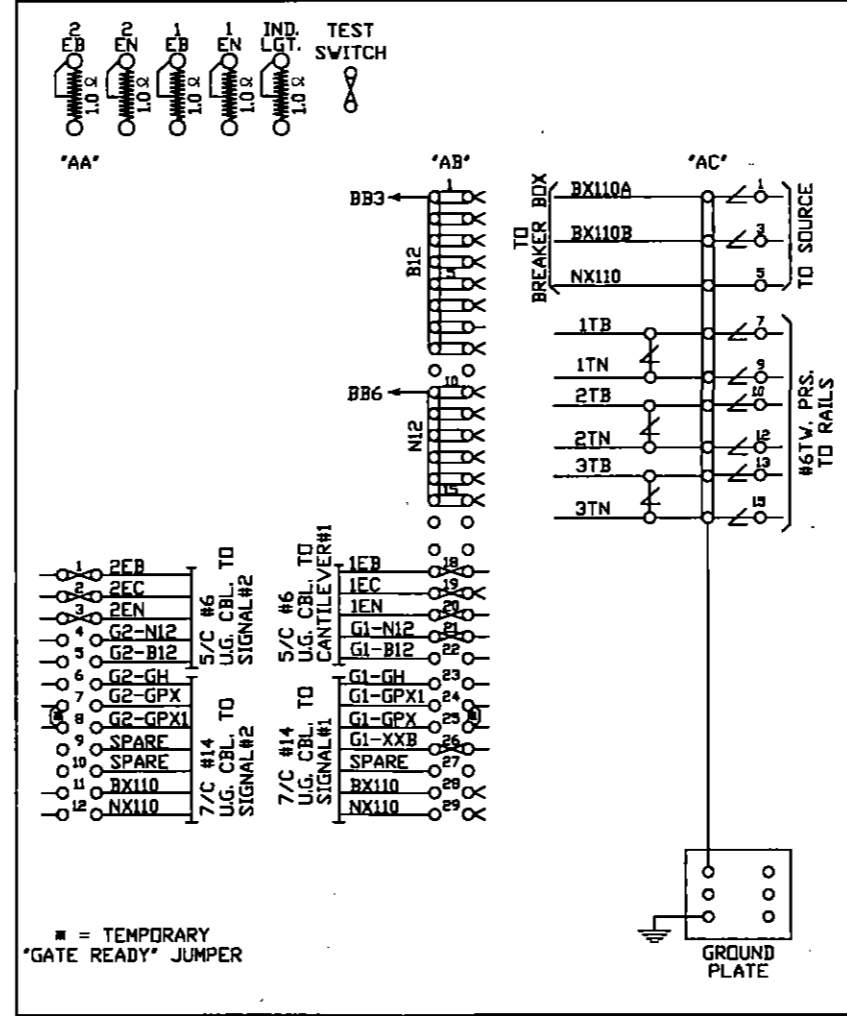
<b>DIAMONDBACK SIGNAL</b> (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 03/02/2022		REVISED:
READING TURNPIKE - DOT # 534 831L - M.P. 13.59 SUNBURY,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

SIDE "C"

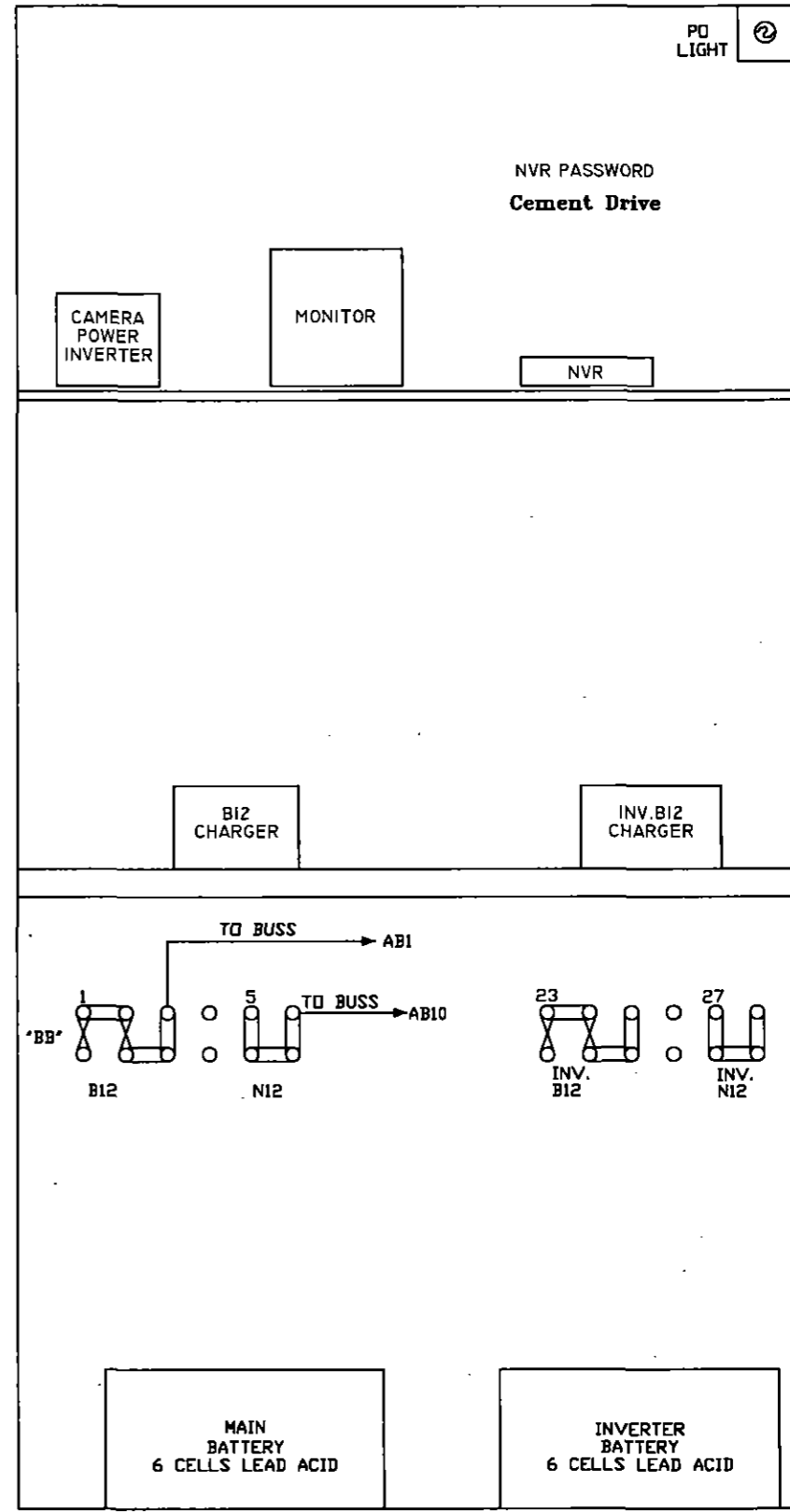


SIDE "A"

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	F	15 FB	15	15 FB	15 F	
22	B	22	22 B	22	22 B	
23		23	23 F	23	23	
25	F	25 F	25 F	25 F	25 F	
32		32	32	32	32	
35	B	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: DATE: 03/02/2022 DRAWN BY: DBS REVISED:

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

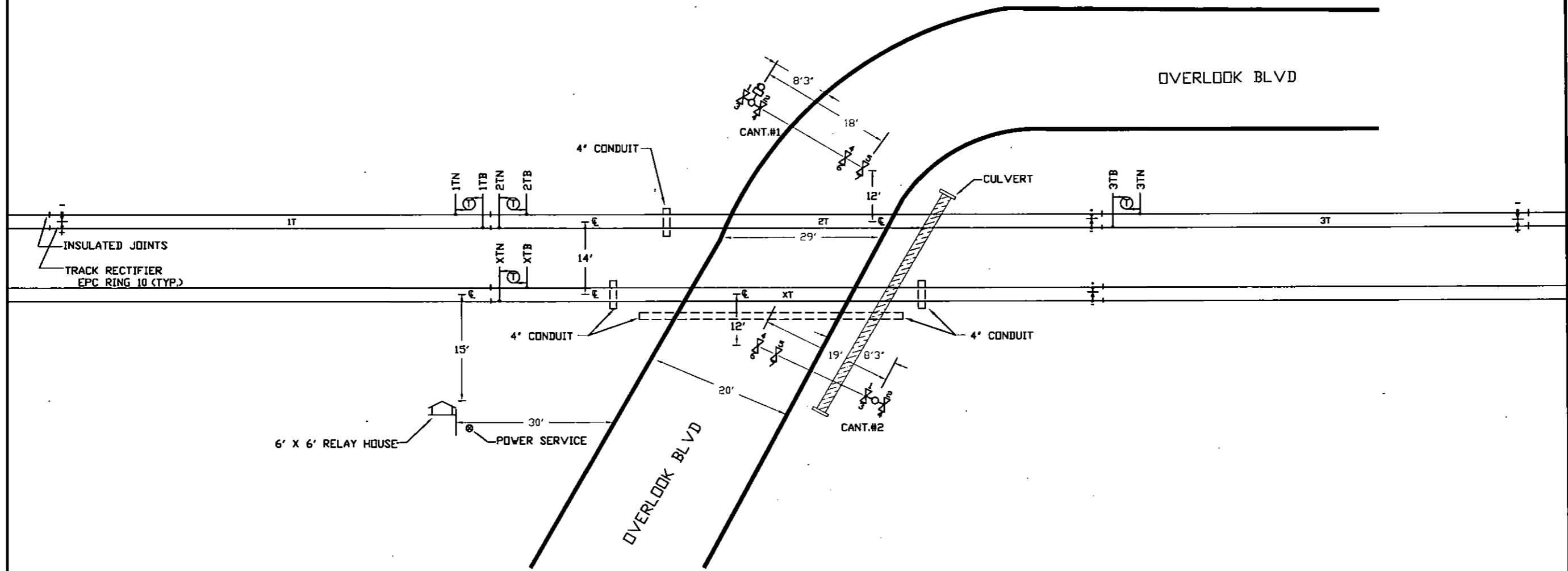
RELAY HOUSE LAYOUT DRAWING NUMBER 13.59

NORTH

SOUTH

OVERLOOK BOULEVARD  
START 440'  
30 SECS. @ 10 MPH

OVERLOOK BOULEVARD  
START 440'  
30 SECS. @ 10 MPH



**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**

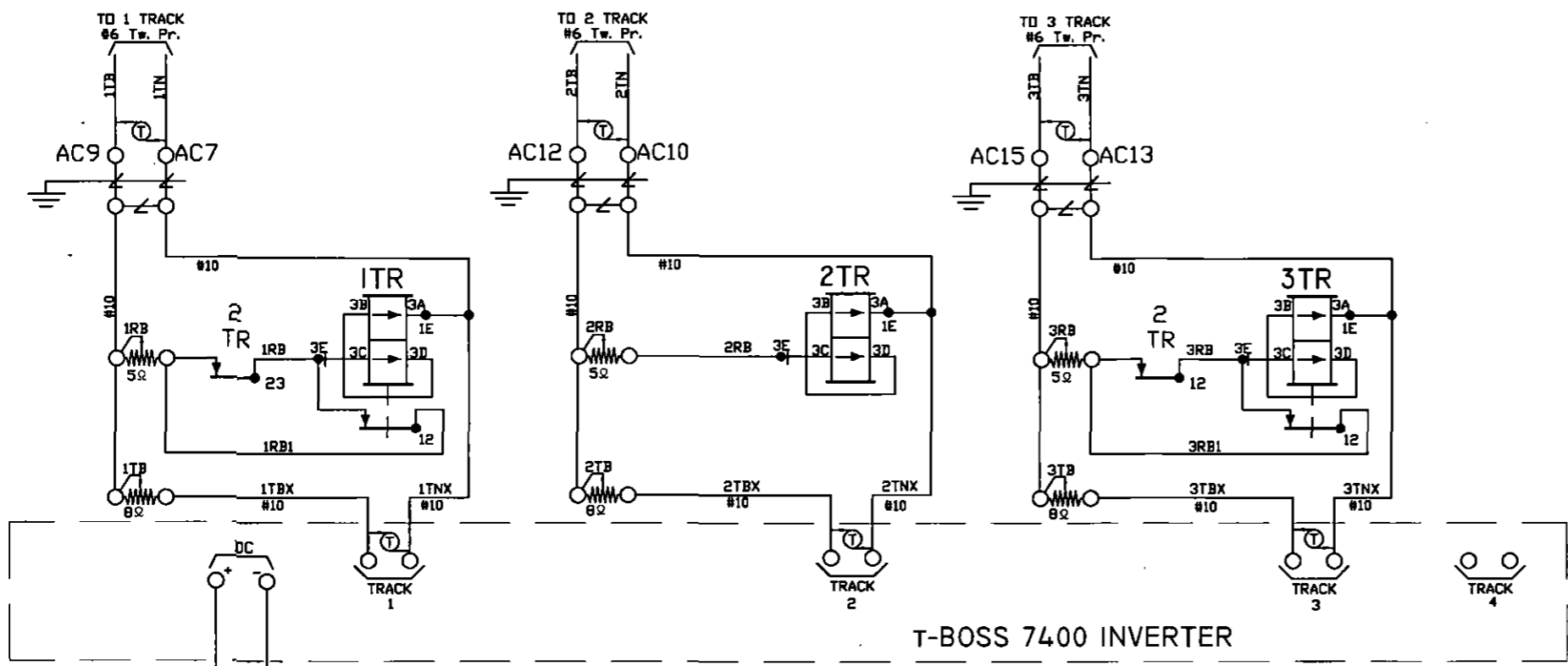
- |                     |                       |
|---------------------|-----------------------|
| HOUSE TO CANT. #1   | - 5/C #6 UG CABLE     |
|                     | - 7/C #14 UG CABLE    |
| HOUSE TO CANT. #2   | - 5/C #6 UG CABLE     |
|                     | - 7/C #14 UG CABLE    |
| HOUSE TO 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 |

RCVD PUC SEC BUR  
FEB 23 2023 AM 10:54

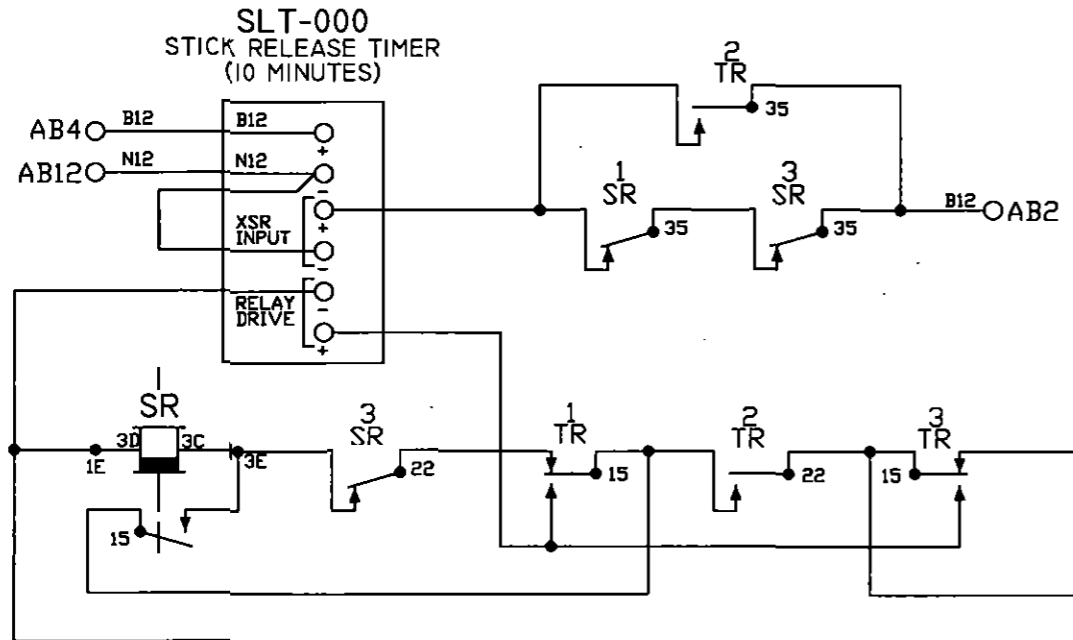
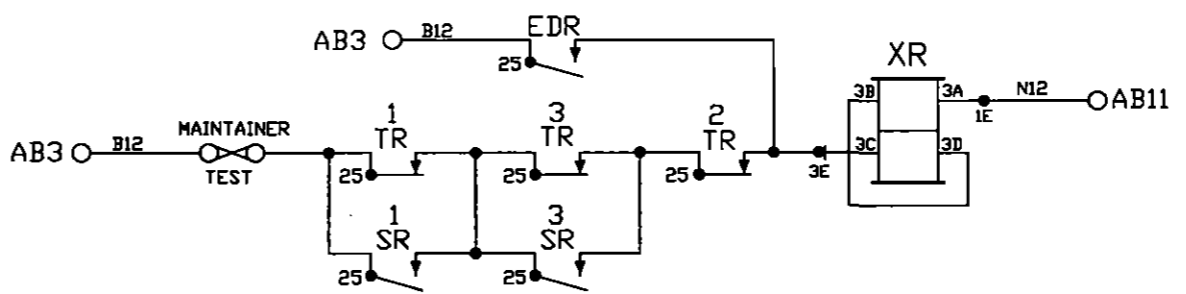
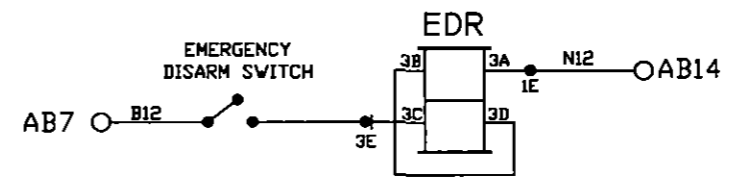
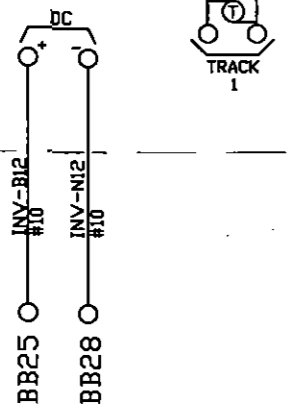
**DIAMONDBACK SIGNAL**

(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: JBS	
DATE: 03/03/2022		REVISED:	
OVERLOOK BOULEVARD-DOT #534 834G - M.P. 15.27 PAXINOS, NORTHUMBERLAND COUNTY, PA			
TRACK & CABLE PLAN			DRAWING NUMBER 13.59

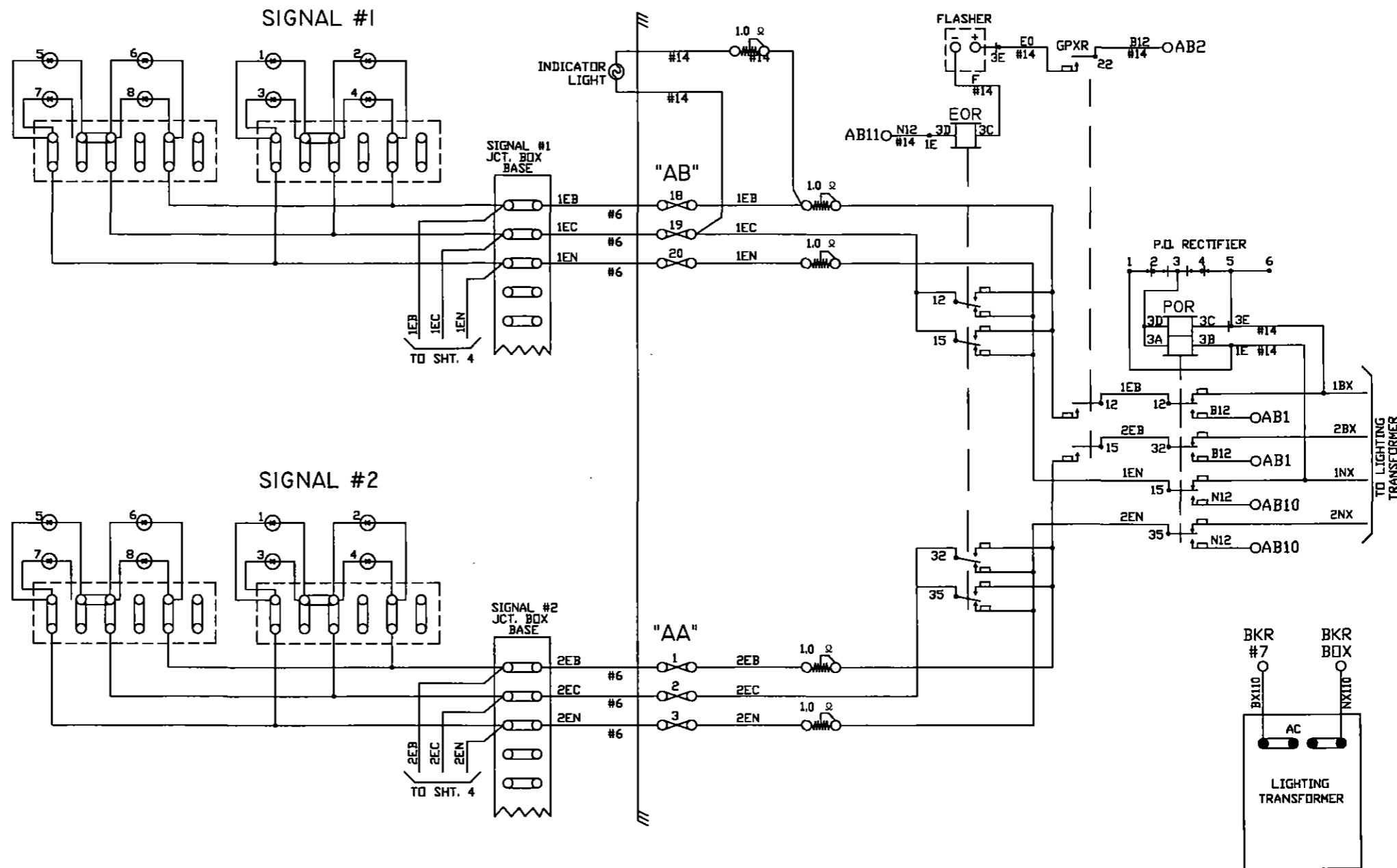


T-BOSS 7400 INVERTER



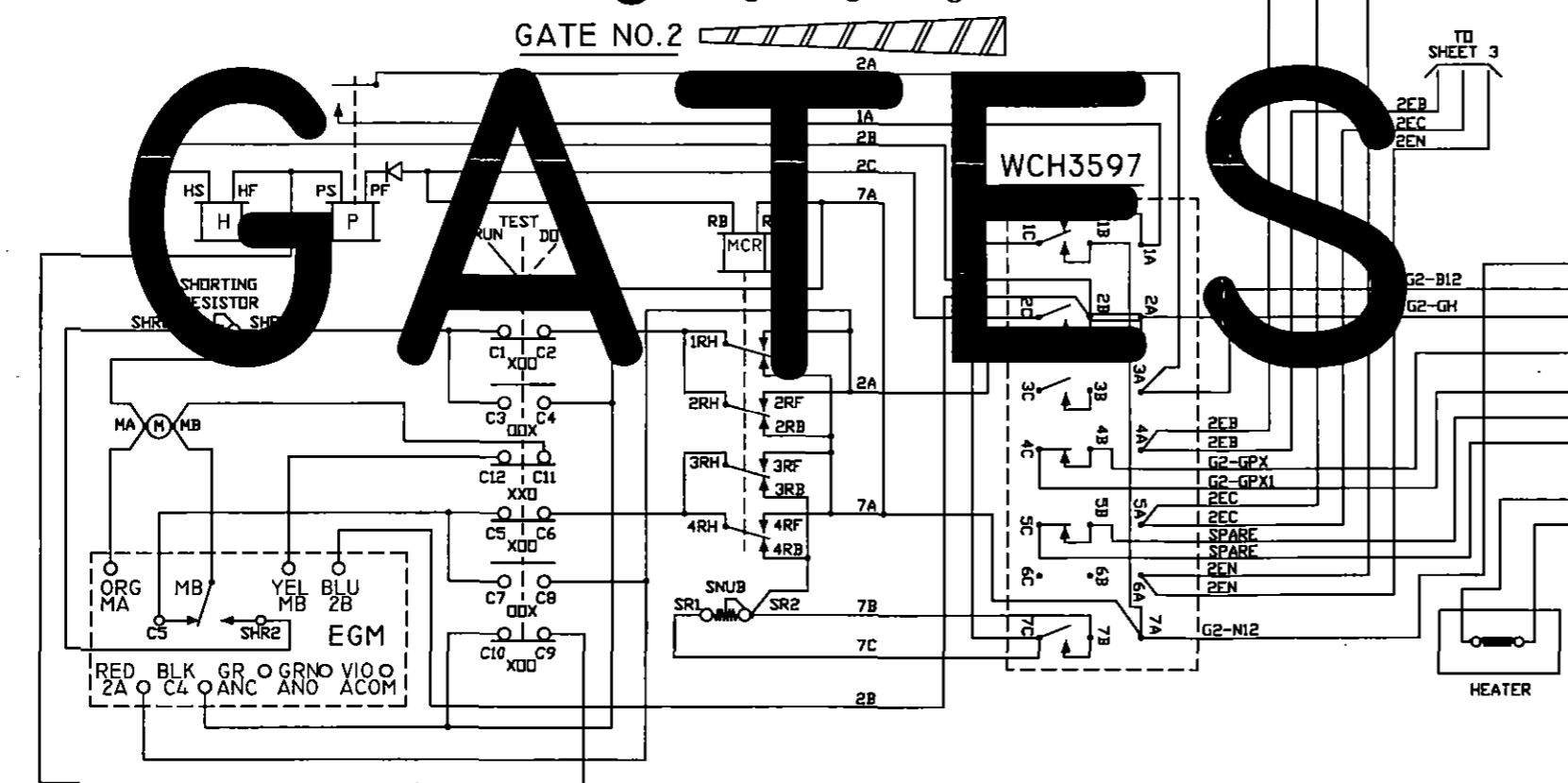
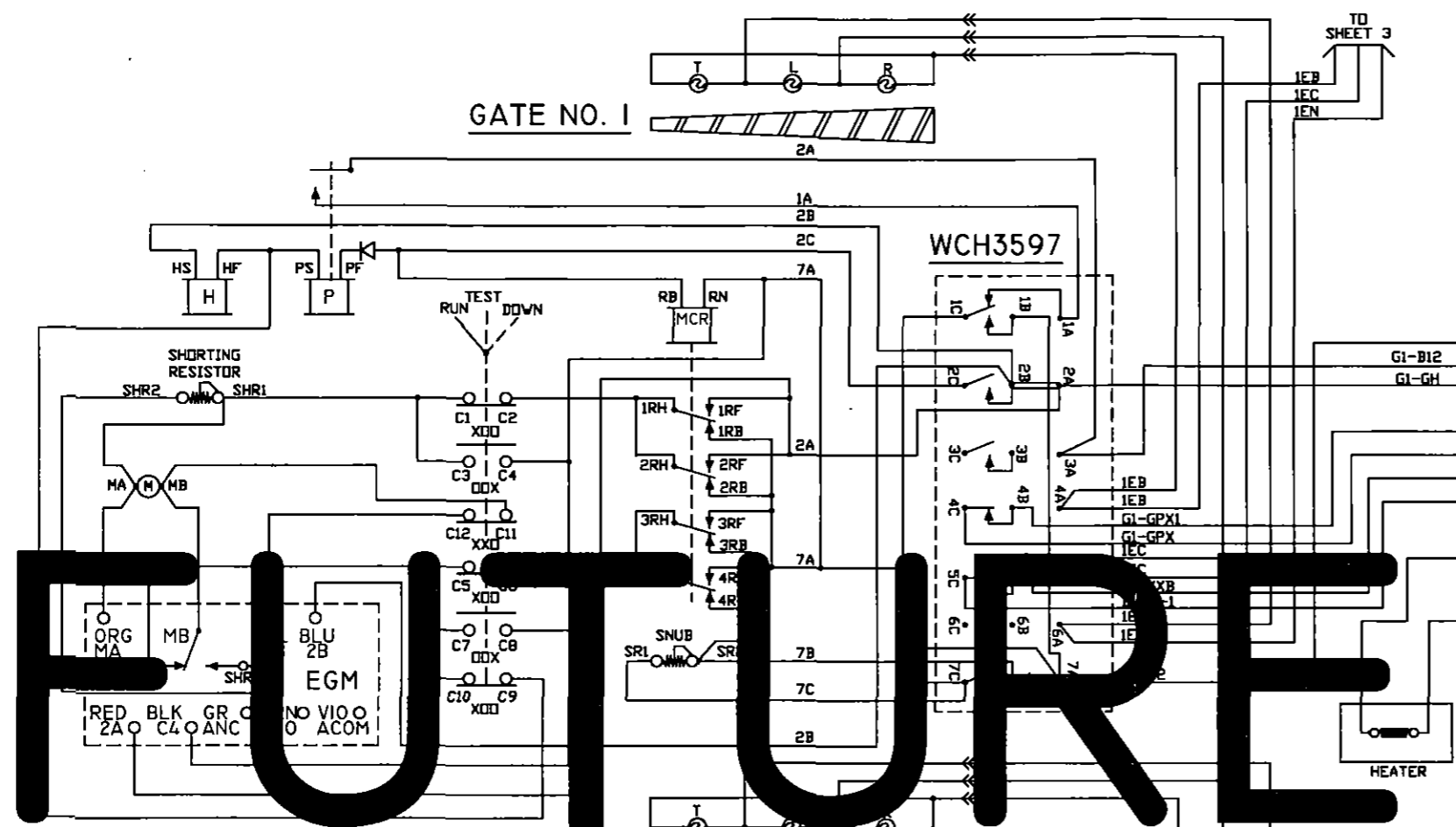
- NOTES:
1. ALL WIRE THIS SHEET IS #14 AWG FLEX UNLESS OTHERWISE NOTED.
  2. (TW) DENOTES TWISTED PAIR.

<b>DIAMONDBACK SIGNAL</b> (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	

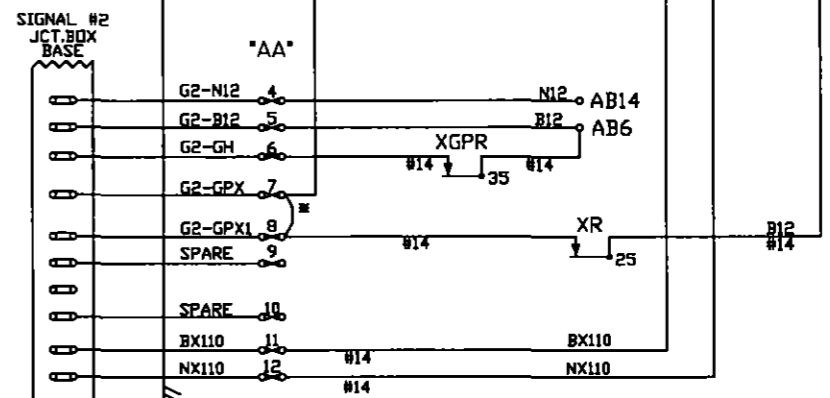
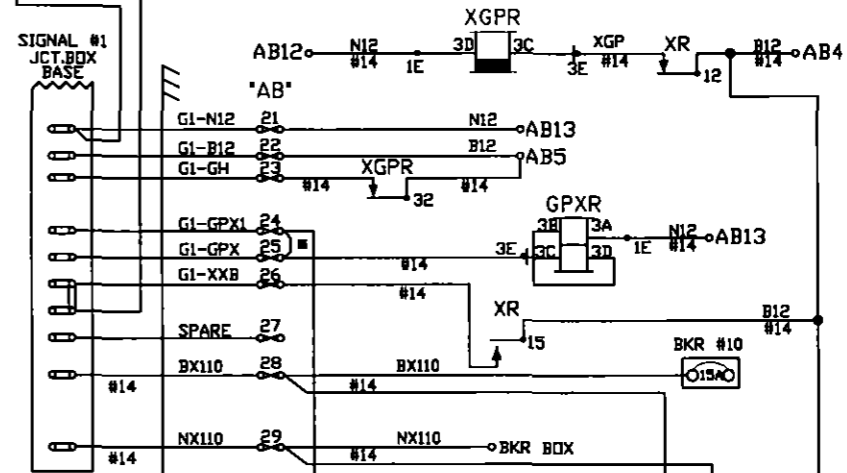


NOTE:  
ALL WIRE THIS SHEET IS #10 AWG. FLEX  
UNLESS OTHERWISE NOTED.

<p><b>DIAMONDBACK SIGNAL</b></p> <p>(410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784</p>	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 'B'		DRAWING NUMBER 13.59	



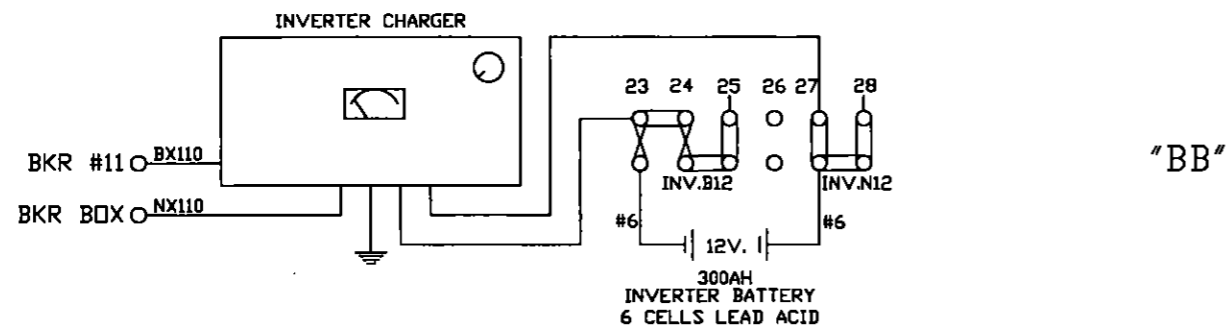
CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	82-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.



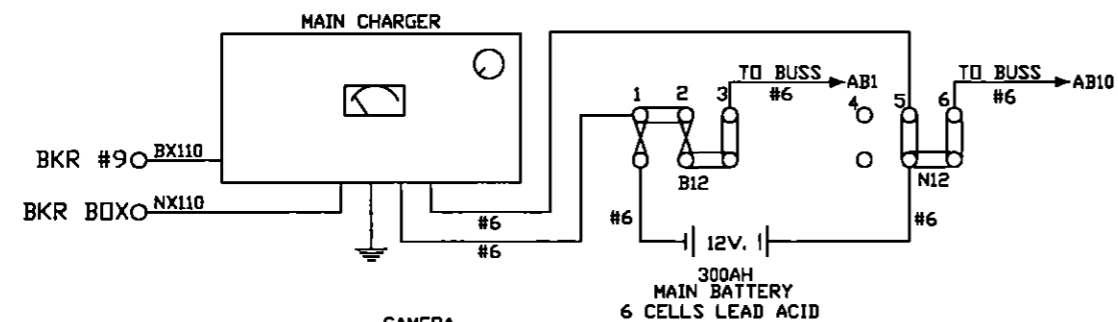
NOTES:  
 ALL WIRE ON THIS SHEET IS #10AWG UNLESS OTHERWISE NOTED.  
 \* = TEMPORARY 'GATE READY' JUMPER.

# FUTURE GATES

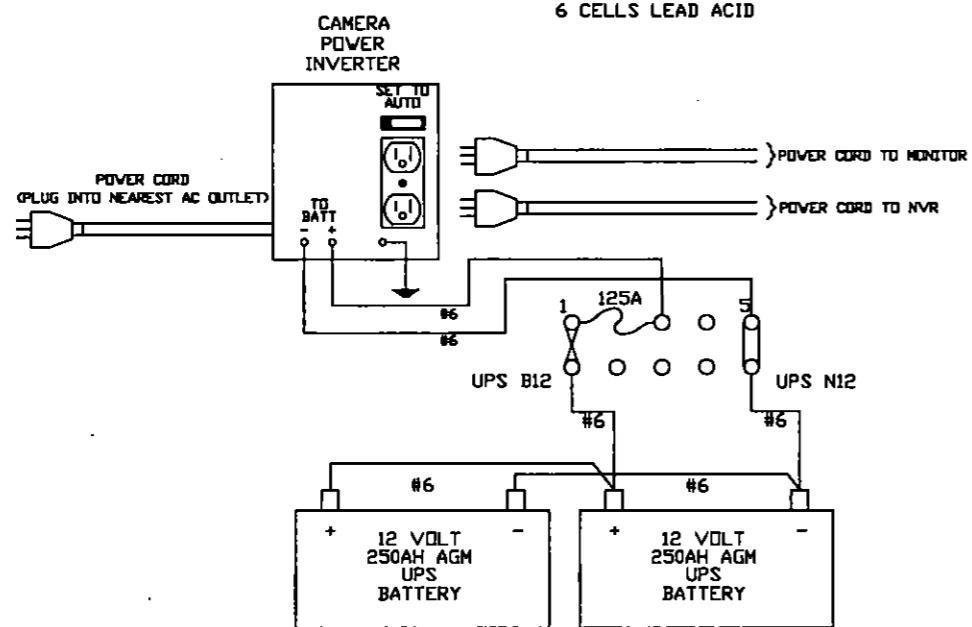
<b>DIAMONDBACK SIGNAL</b> (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 03/03/2022		REVISED:
	OVERLOOK BOULEVARD-DOT #534 834G - M.P. 15.27 PAXINOS,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



"BB"



"BB"

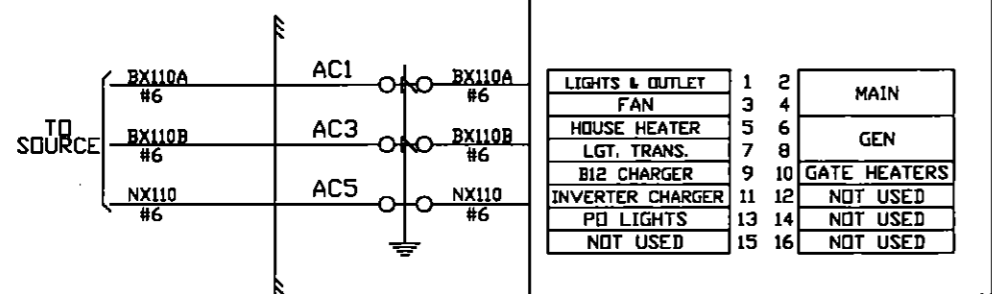


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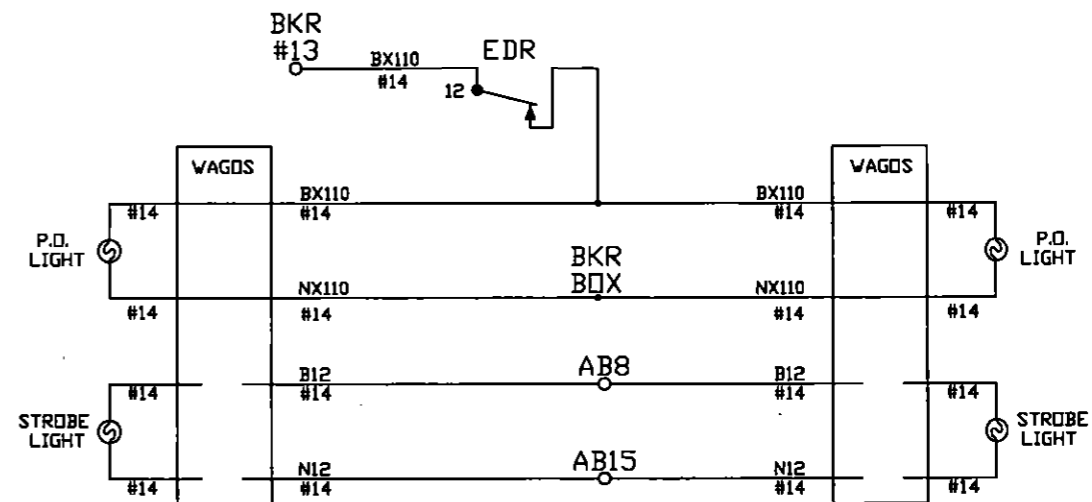
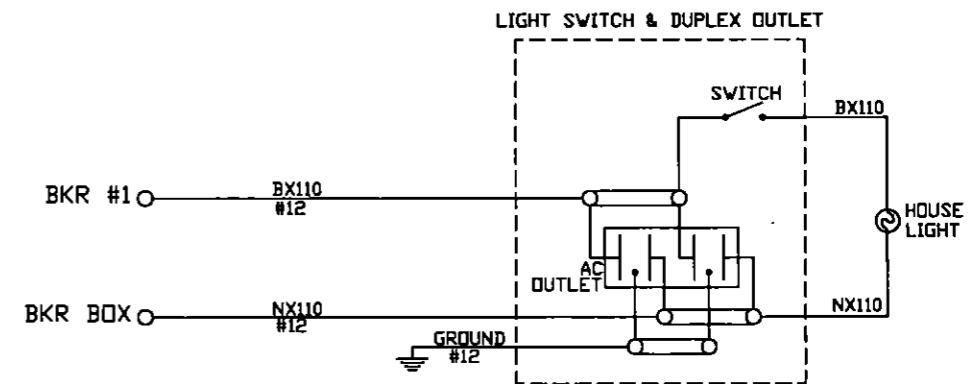
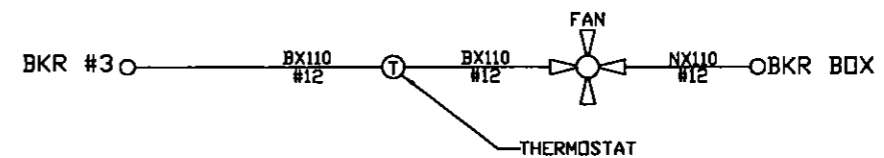
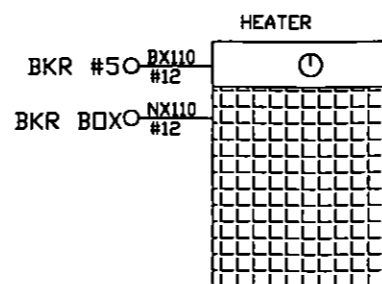
ERICO EPD  
120/240

VENT FAN  
THERMOSTAT

BREAKER BOX



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



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

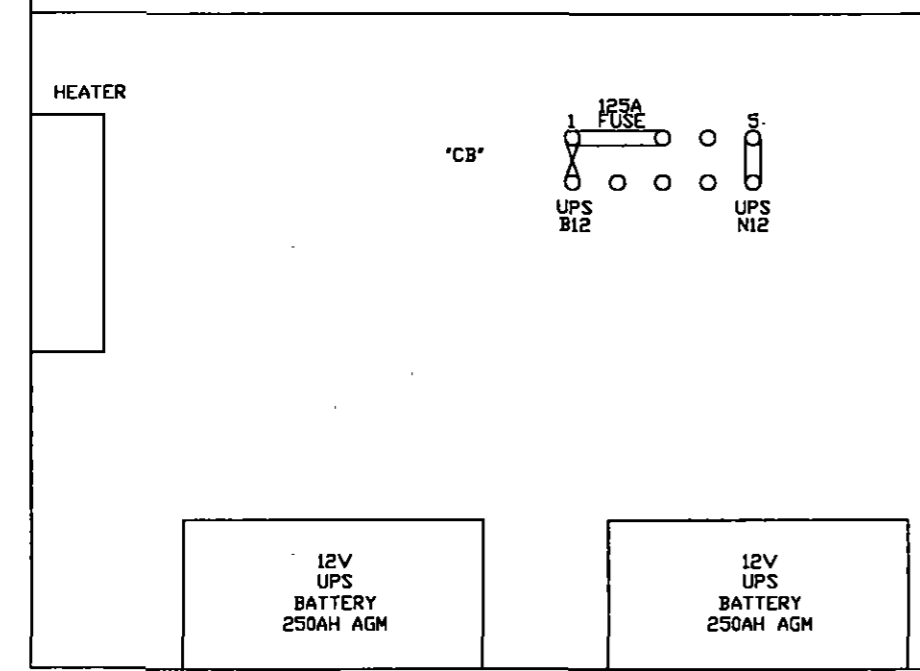
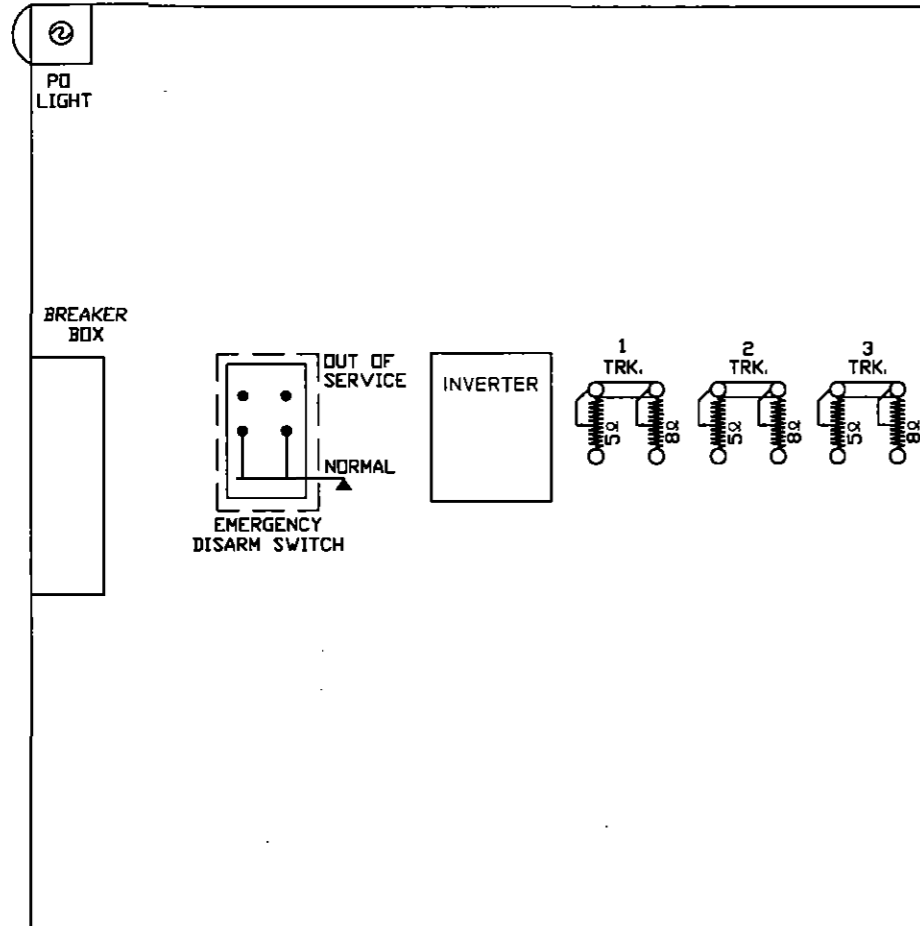
AS WIRED AS INSTALLED

**DIAMONDBACK SIGNAL**

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

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

SIDE "C"

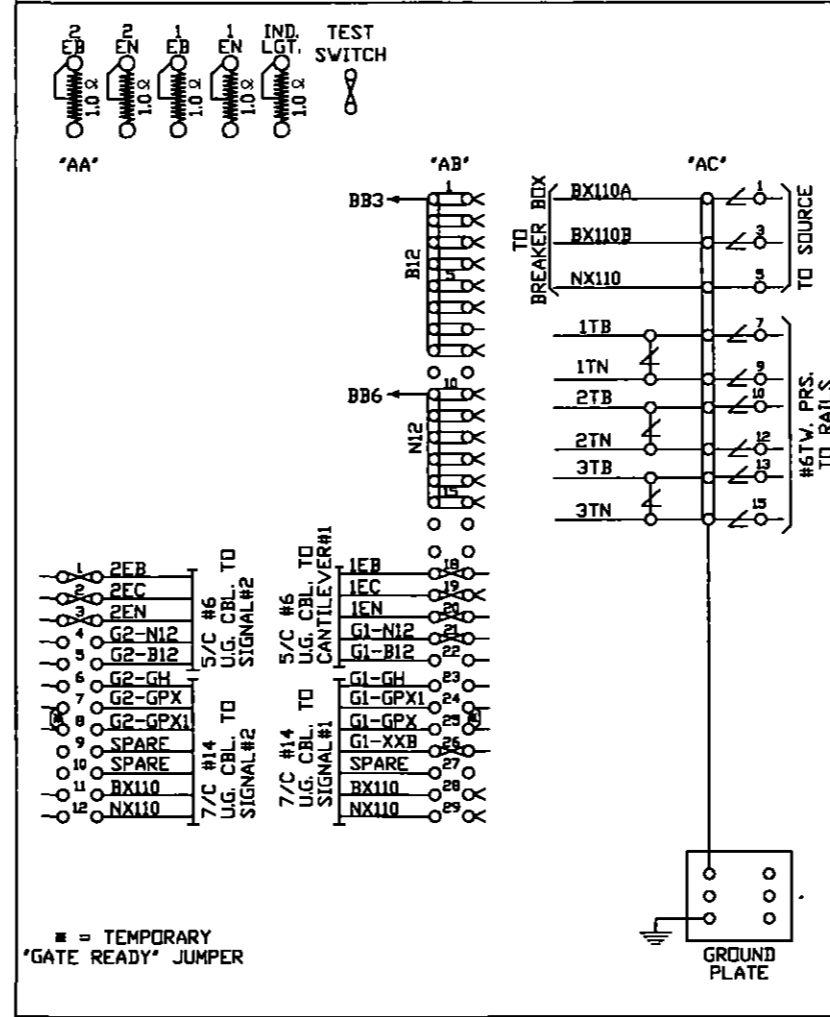


SIDE "A"

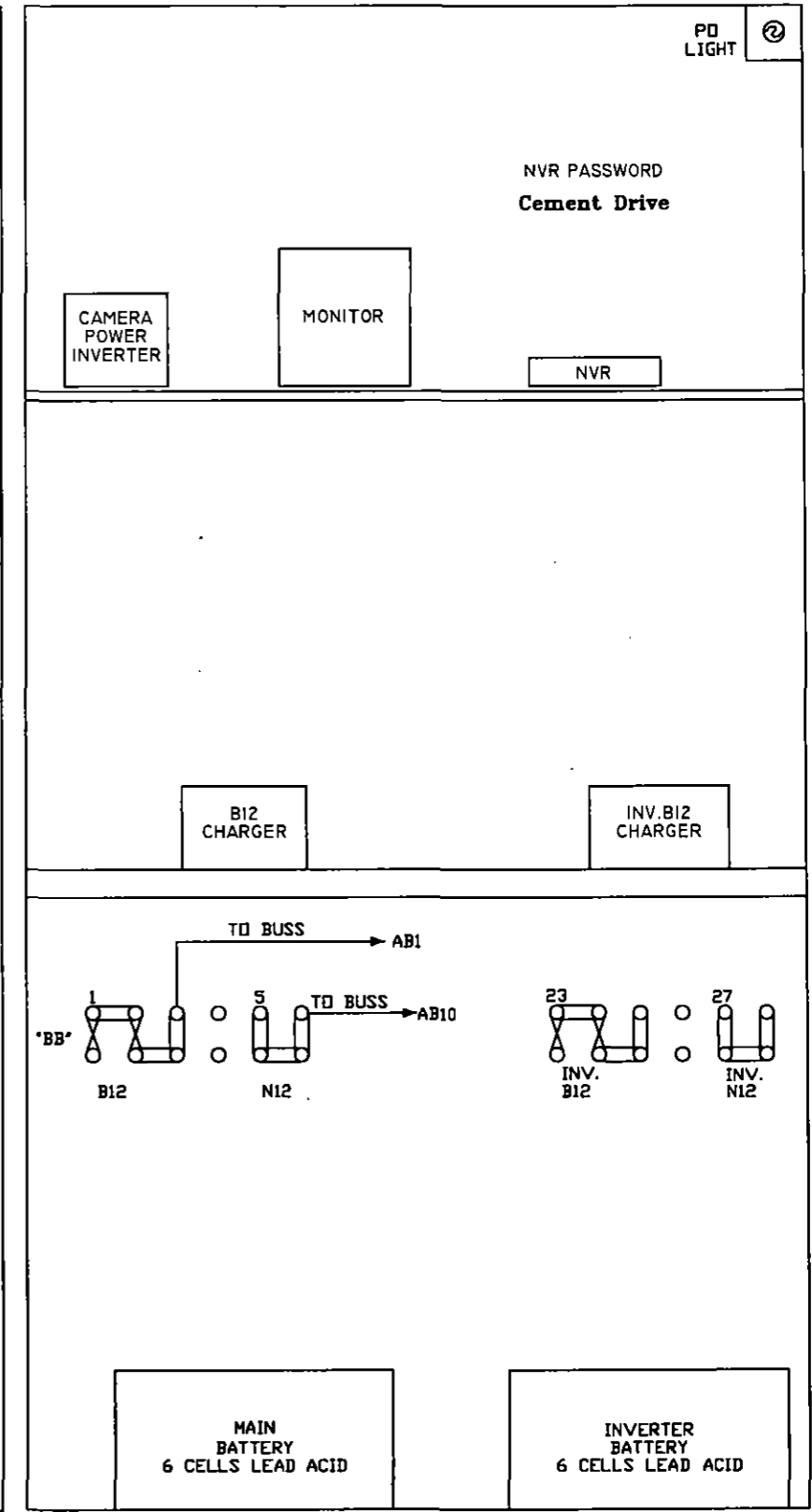
LIGHT TRANS.	POR	12 FB	12 FB	12 B	12 F	12	12 B
		15 FB	15 FB	15 B	15	15	15
		22	32 FB	22 B	22	32 F	22
		25	35 FB	23	25 F	35 F	25 F
		32 FB		25	32		32 B
	35 FB		32	35 B		35	
			35				
	A62-406	A62-671	A62-310	A62-262	A62-360	A62-262	
	400800	400700-X	400020	400000	400200	400000	

	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"



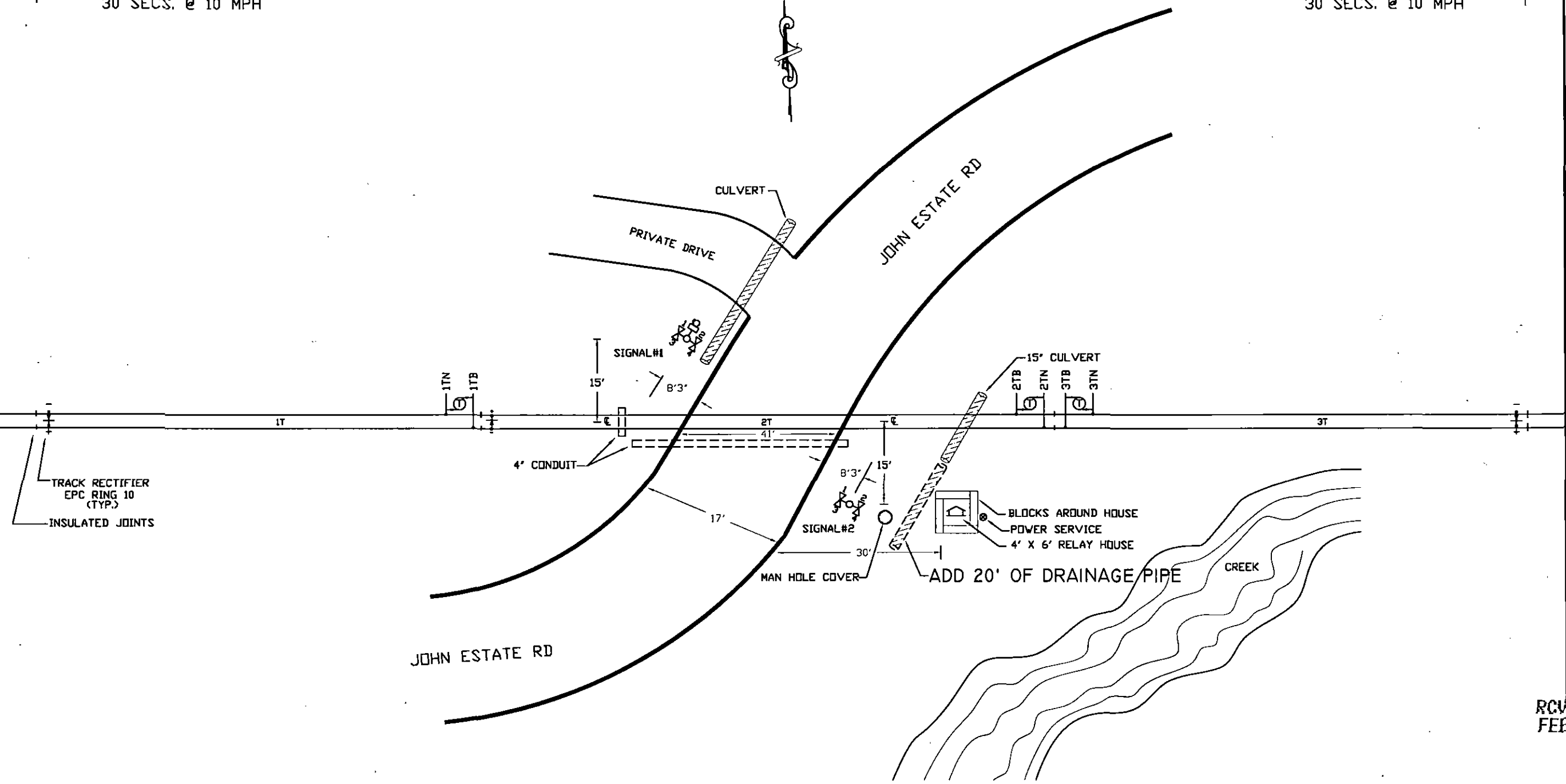
<p><b>DIAMONDBACK SIGNAL</b></p> <p>(410) 795-9601</p> <p>5965 EXCHANGE DRIVE</p> <p>SUITE "D"</p> <p>SYKESVILLE, MD 21784</p>	AS WIRED	AS INSTALLED	
	<p>SHAMOKIN VALLEY RAILROAD</p> <p>RAILROAD CROSSING WARNING DEVICES</p>		
	<p>SCALE: NONE</p> <p>DATE: 03/03/2022</p>	<p>APPROVED BY:</p> <p>REVISOR:</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



**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.  $\text{\textcircled{T}}$  DENOTES TWIST PAIR.

**CABLE RUN TABULATION**

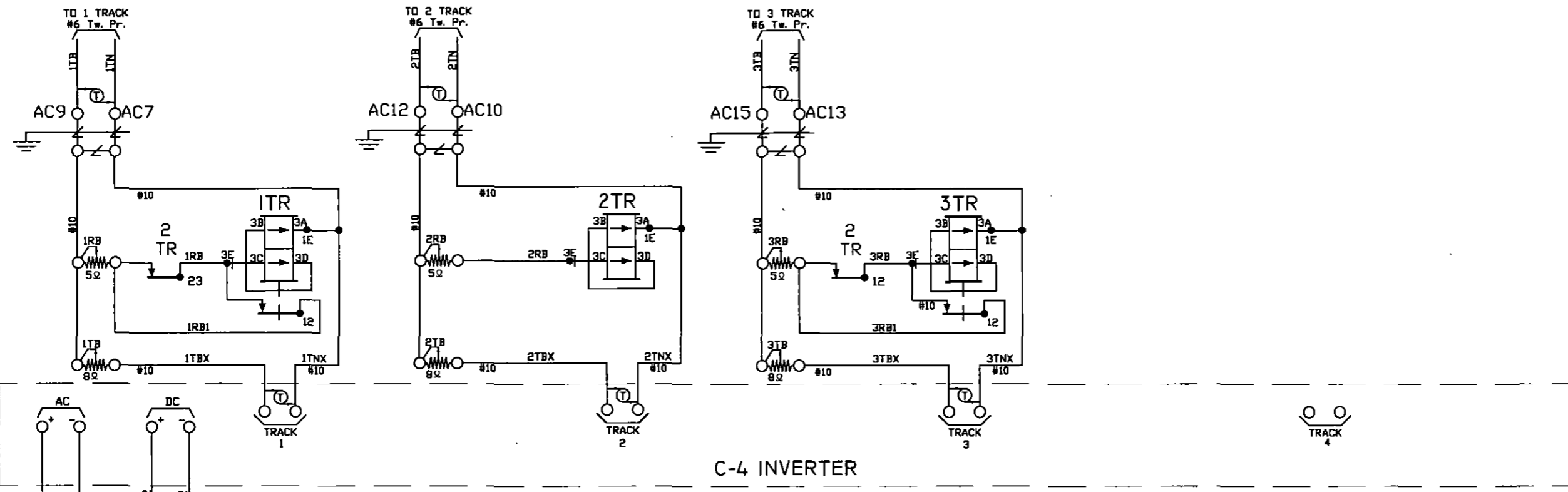
HOUSE TO SIGNAL #1	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO SIGNAL #2	- 5/C #6 UG CABLE
	- 7/C #14 UG CABLE
HOUSE TO AC SERVICE	- 3/C #9 UG CABLE
HOUSE TO 1TN & 1TB	- 2/C #6 TWISTED PAIR
HOUSE TO 2TN & 2TB	- 2/C #6 TWISTED PAIR
HOUSE TO 3TN & 3TB	- 2/C #6 TWISTED PAIR

**DIAMONDBACK SIGNAL**

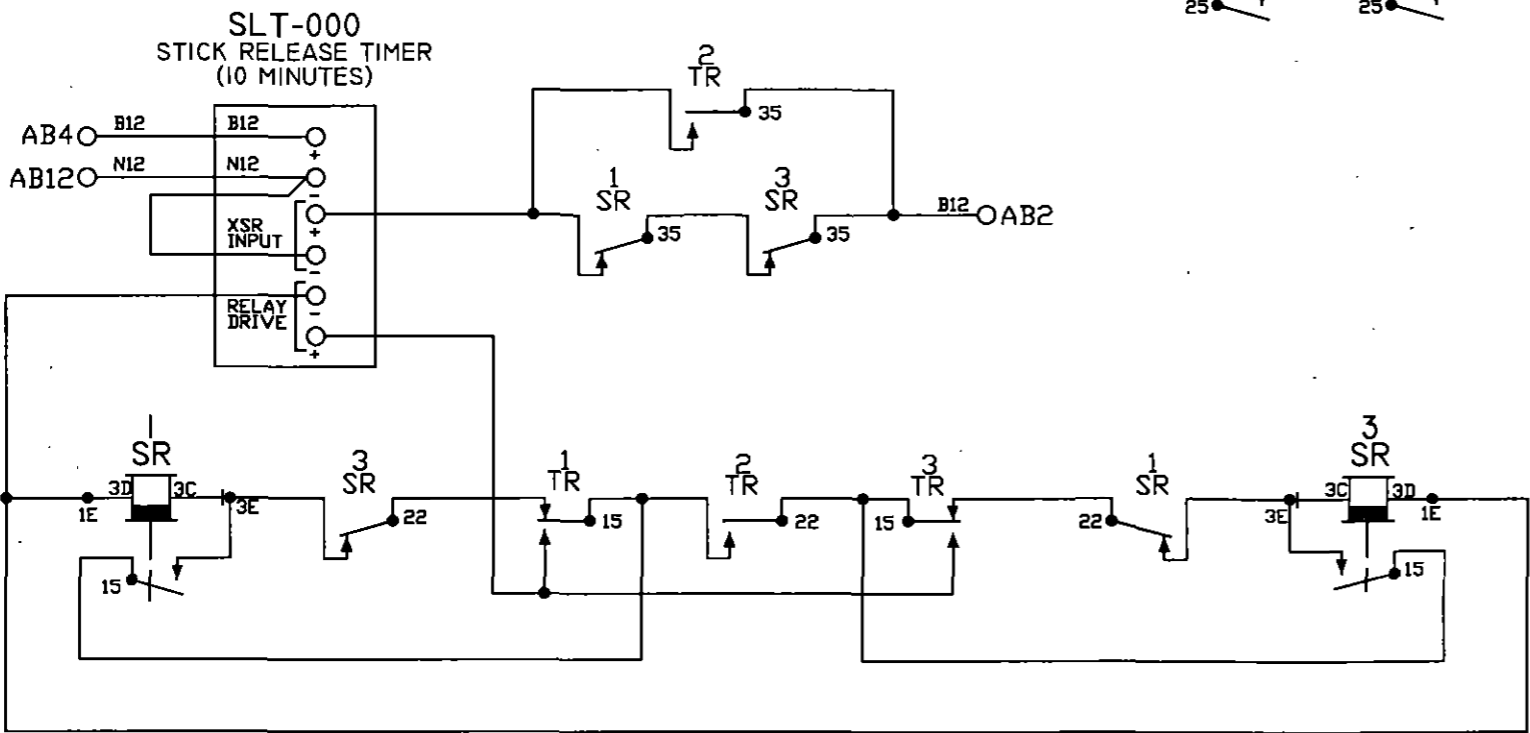
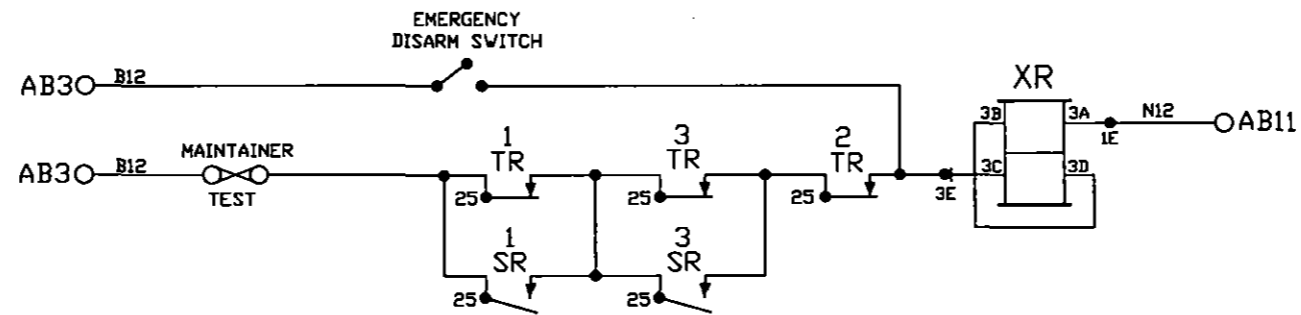
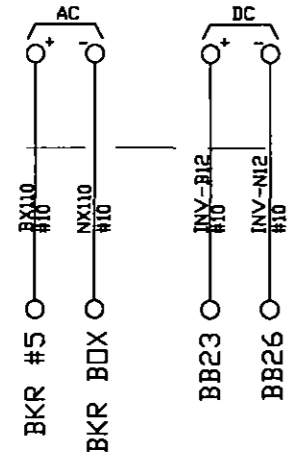
(410) 795-9601  
5965 EXCHANGE DRIVE  
SUITE 'D'  
SYKESVILLE, MD  
21784

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

RCVD PLC SEC BUR  
FEB 23 2023 AM 10:54

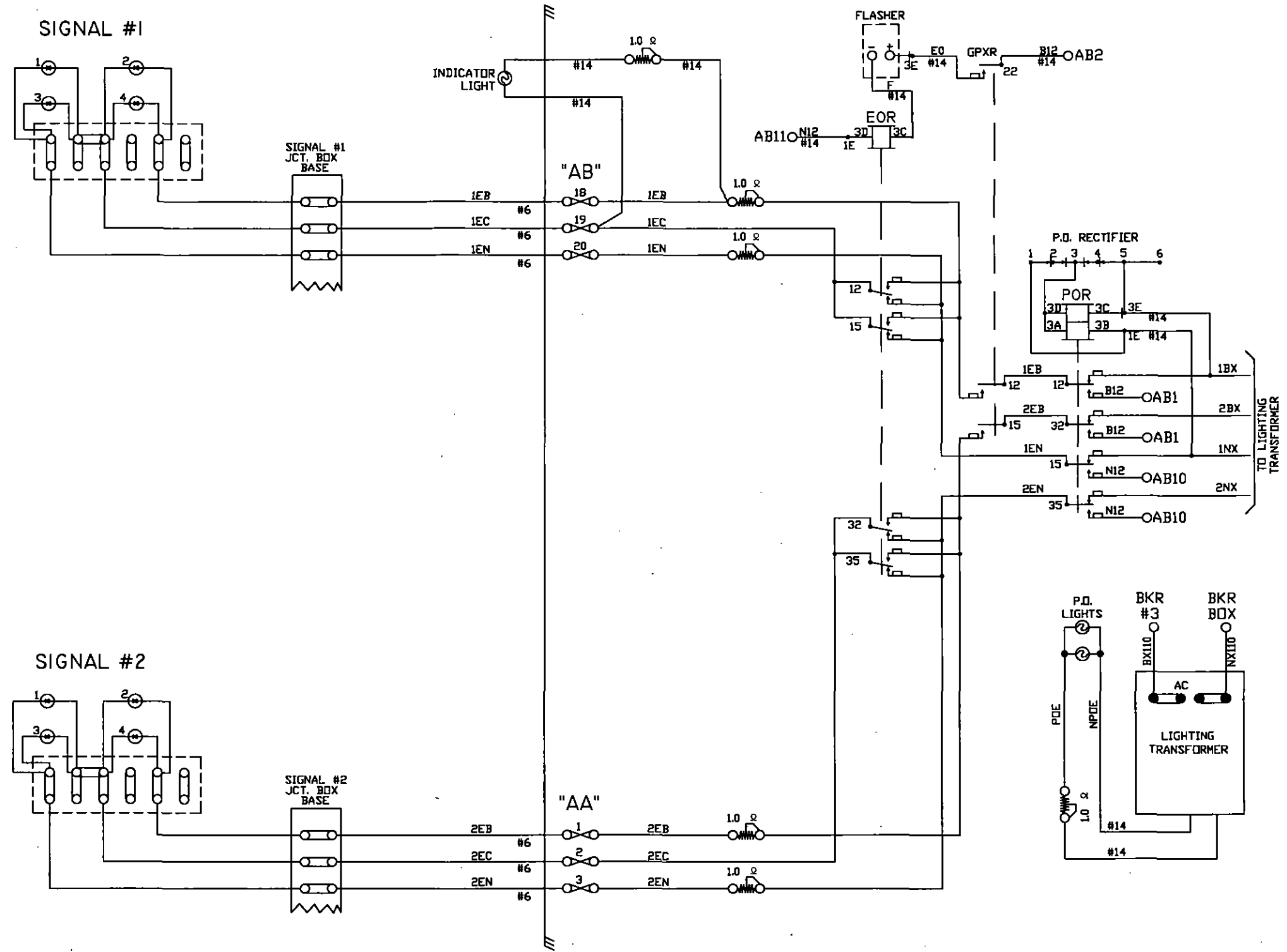


C-4 INVERTER



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

<b>DIAMONDBACK SIGNAL</b> (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

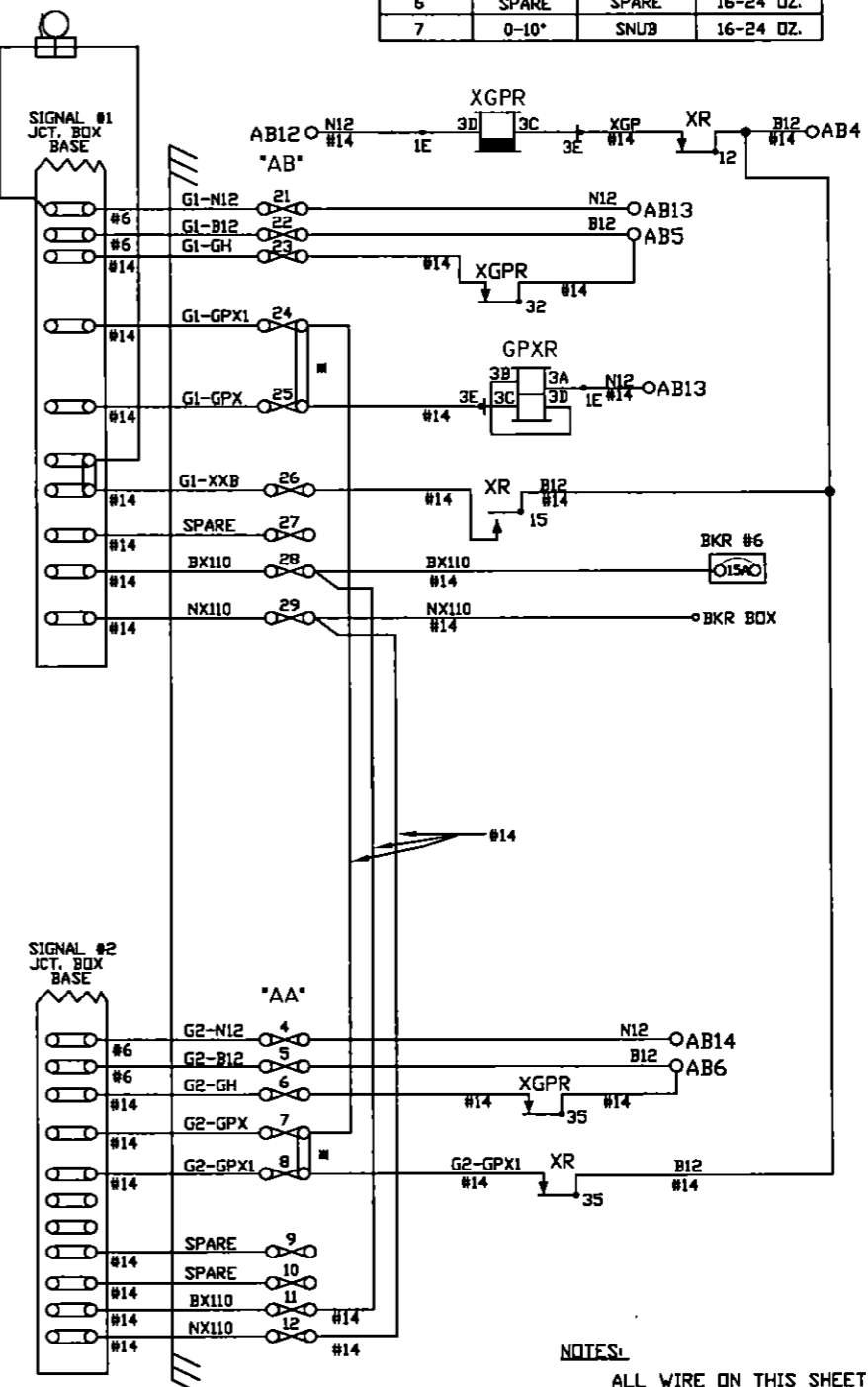
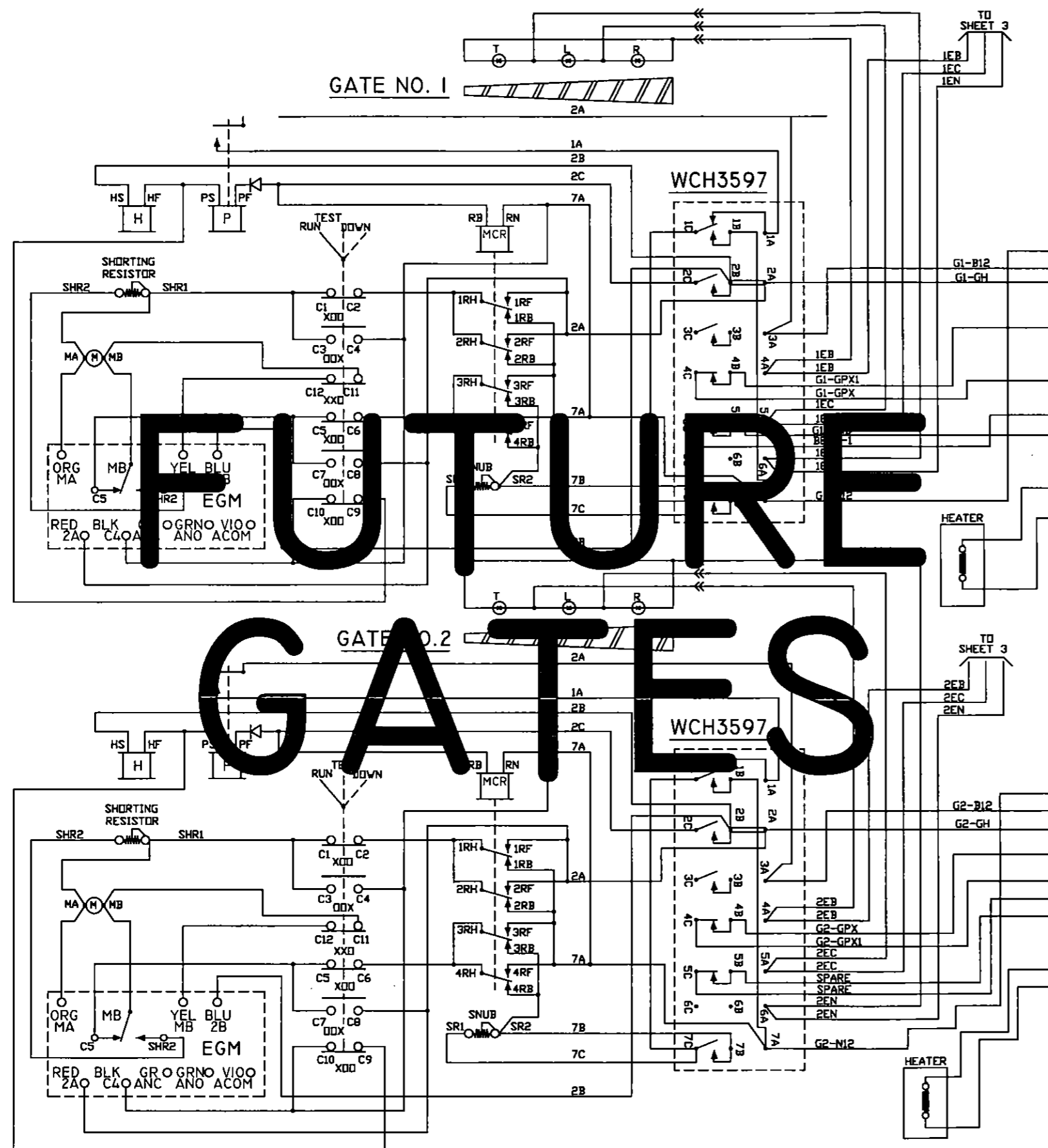


**NOTE:**

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

<b>DIAMONDBACK SIGNAL</b> (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	

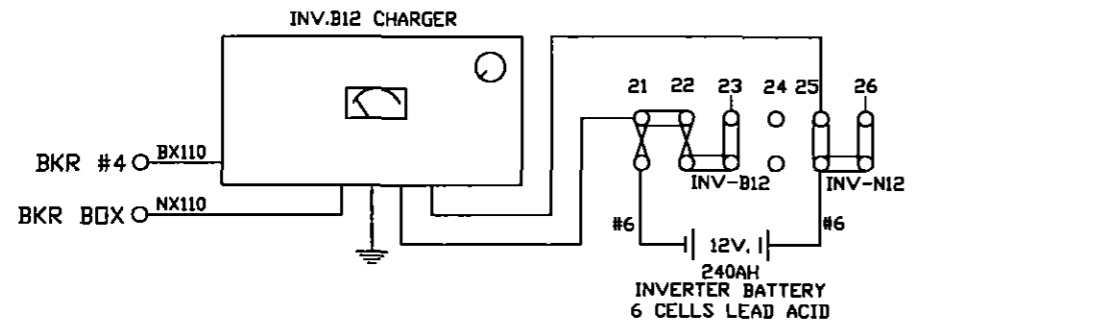
CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90°	POWER DOWN	18-22 OZ.
1F	0-70°	SNUB DOWN	18-22 OZ.
2	0-86°	POWER UP	18-28 OZ.
3	0-10°	GATE DOWN	16-24 OZ.
4	B2-90°	GATE CLEAR	16-24 OZ.
5	10-90°	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-10°	SNUB	16-24 OZ.



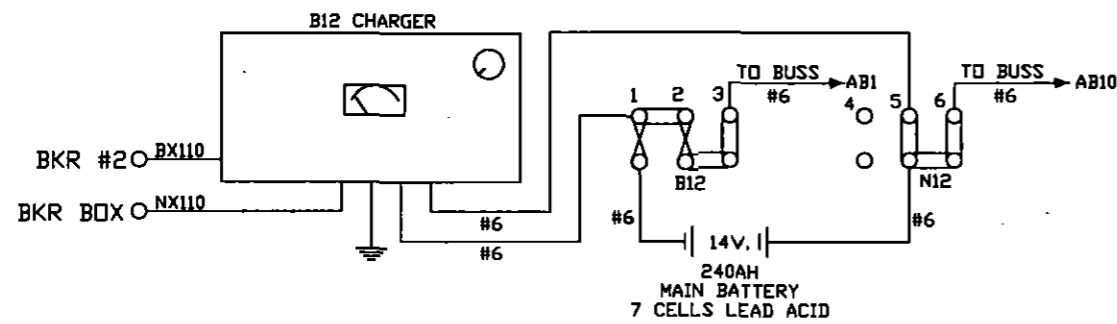
# FUTURE GATES

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

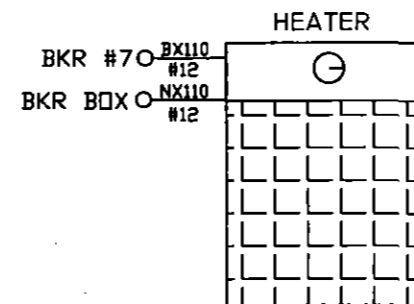
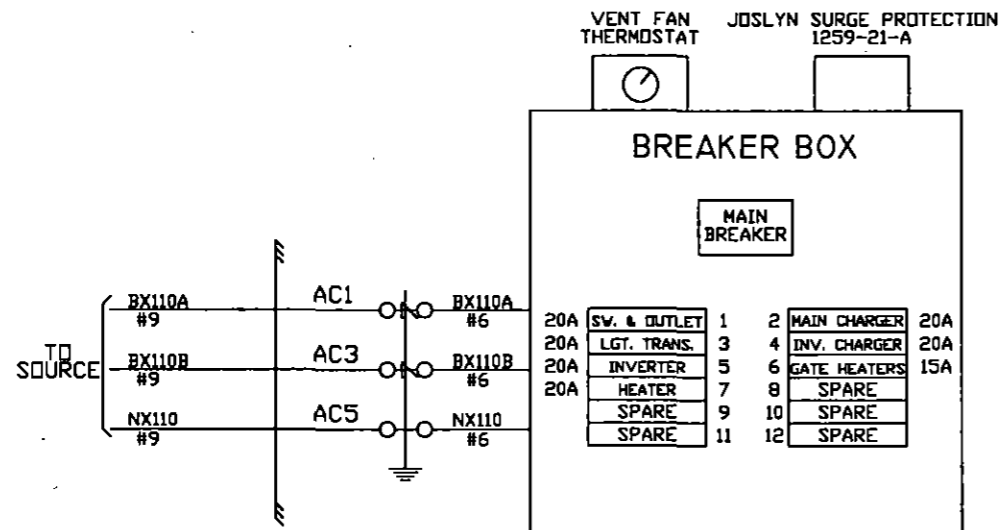
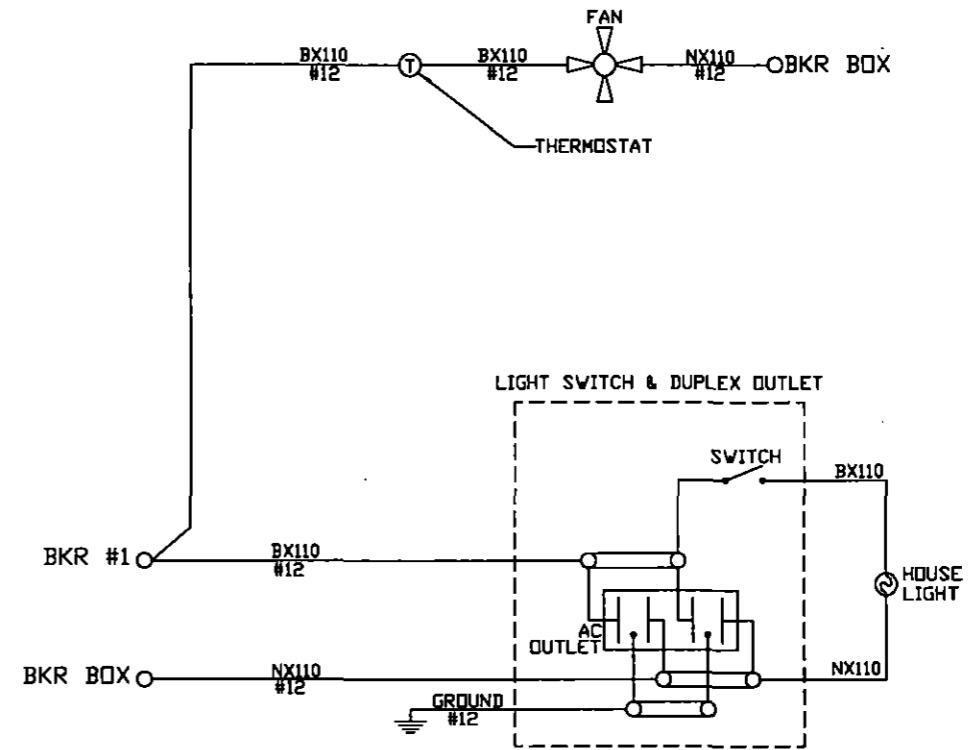
<b>DIAMONDBACK SIGNAL</b> (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	<b>SHAMOKIN VALLEY RAILROAD          RAILROAD CROSSING WARNING DEVICES</b>	
	SCALE: NONE DATE: 03/04/2022	APPROVED BY:  REVISED:
JOHNS ESTATE ROAD - DOT #534 836V - M.P. 16.80 SHAMOKIN, NORTHUMBERLAND COUNTY,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



"BB"



"BB"



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

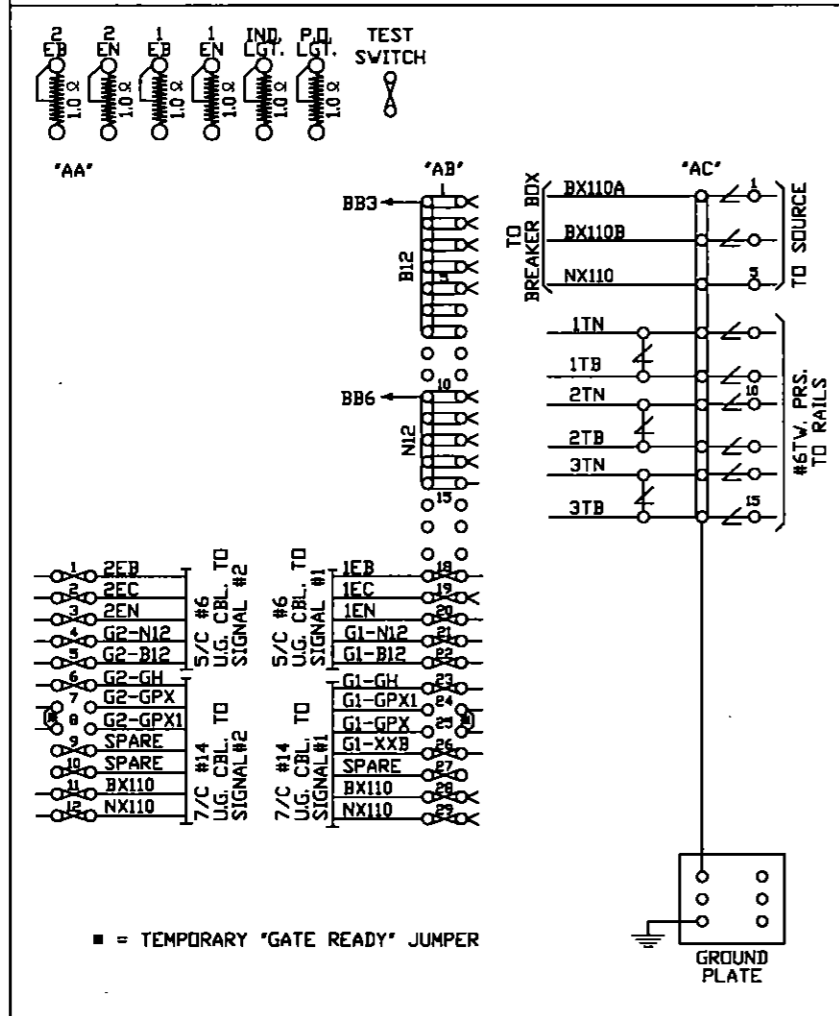
<b>DIAMONDBACK SIGNAL</b> (410) 795-9601 5965 EXCHANGE DRIVE SUITE 'D' SYKESVILLE, MD 21784	AS WIRED		AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES			
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS	
	DATE: 03/04/2022		REVISED:	
JOHNS ESTATE ROAD - DOT #534 836V - M.P. 16.80 SHAMOKIN,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

SIDE "A"

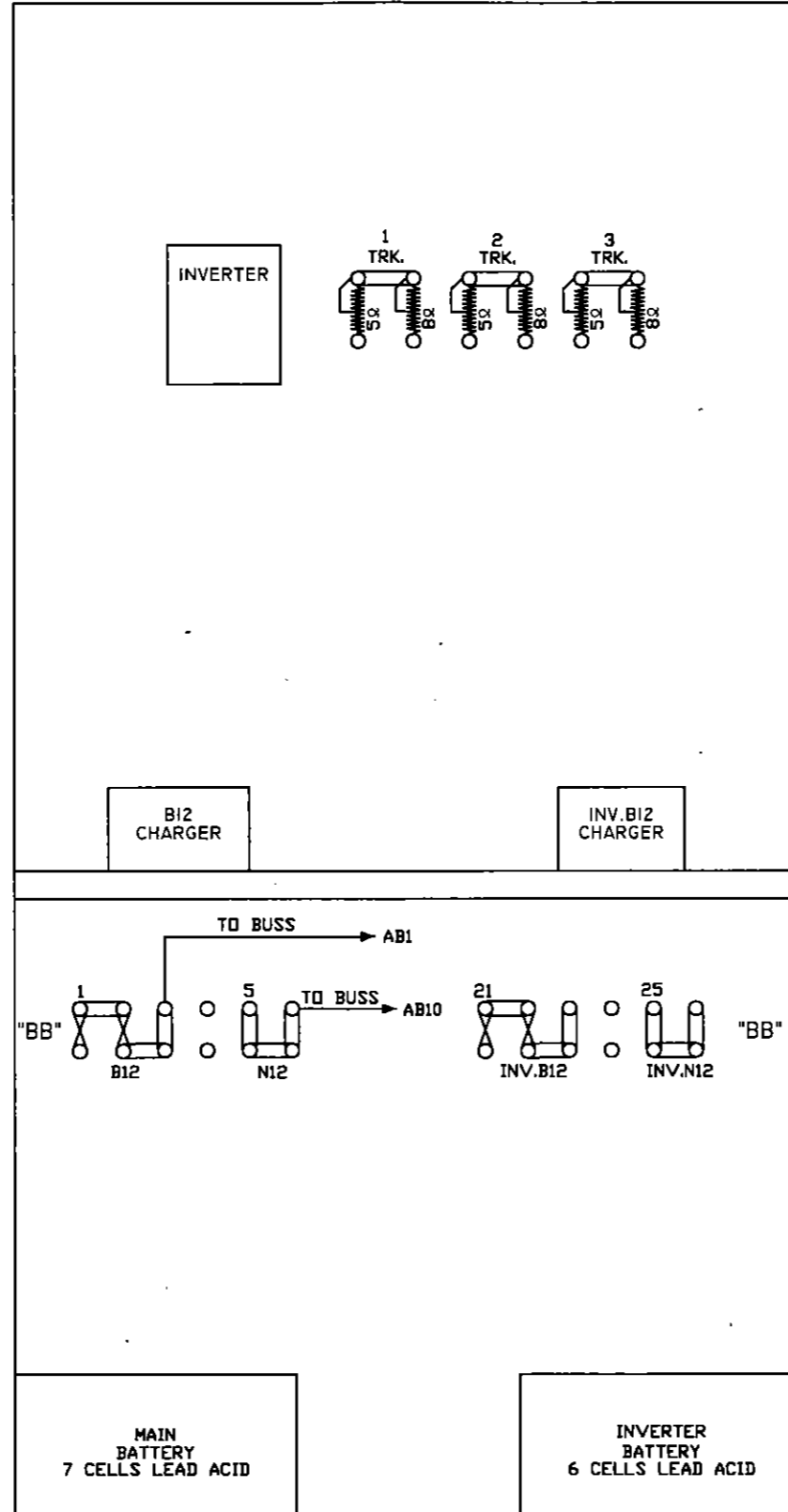
						PO LIGHT
LIGHT TRANS.	POR	EOR	GPXR	XR	XGPR	
	12 FB	12 FB	12 B	12 F	12	
	15 FB	15 FB	15 B	15 B	15	
	22	32 FB	22 B	22	32 F	
	25	35 FB	23	23	35 F	
			25	25		
			32	32		
			35	35 F		
	A62-406	A62-671	A62-310	A62-310	A62-360	

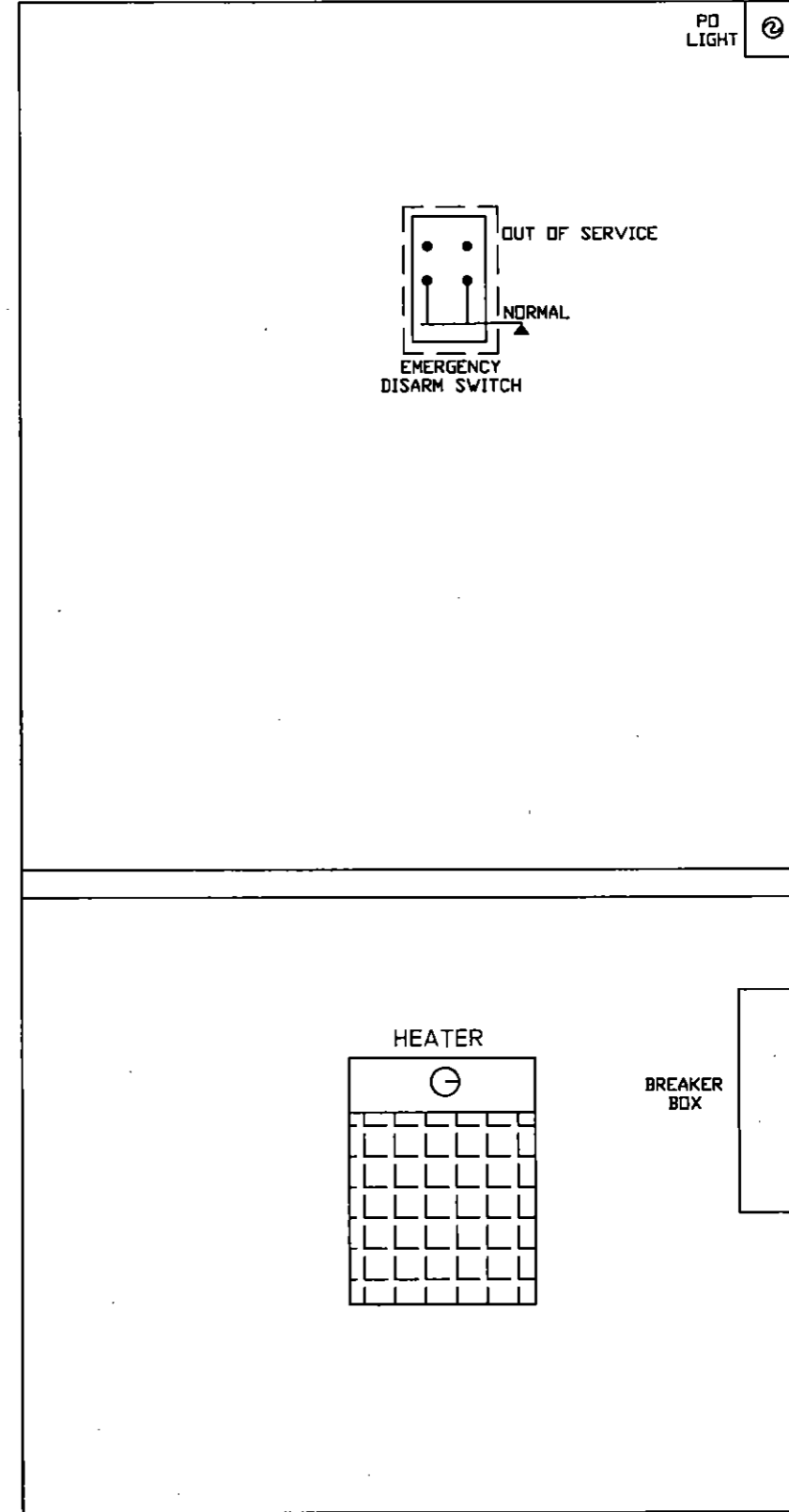
1 SR	1 TR	2 TR	3 TR	3 SR	SLT-000 STICK RELEASE TIMER (10 MIN)
12	12 F	12 F	12 F	12	
15 F	15 FB	15	15 FB	15 F	
22 B	22	22 B	22	22 B	
23	23	23 F	23	23	
25 F	25 F	25 F	25 F	25 F	
32	32	32	32	32	
35 B	35	35 B	35	35 B	
A62-357	A62-120	A62-120	A62-120	A62-357	



SIDE "B"



SIDE "C"



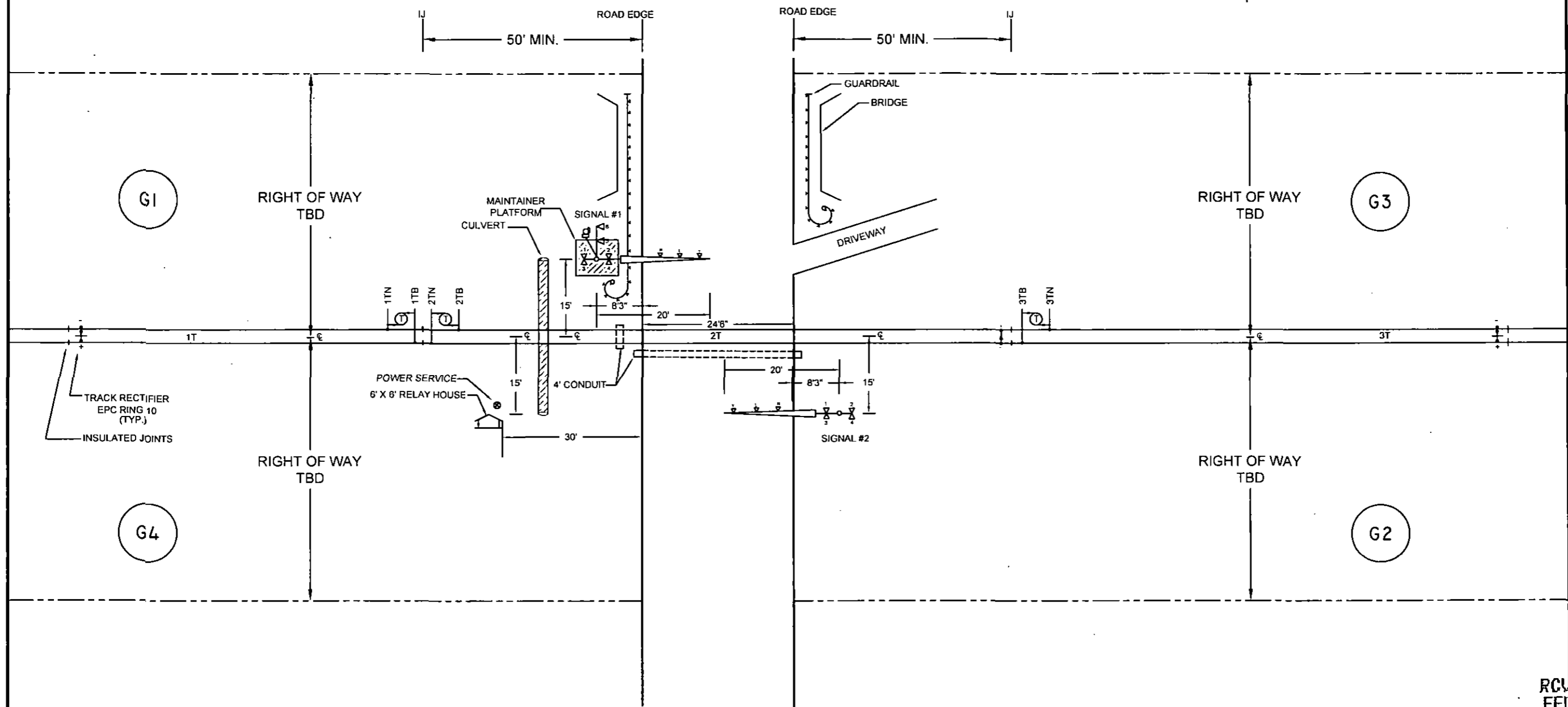
<b>DIAMONDBACK SIGNAL</b> (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: JBS
	DATE: 03/04/2022		REVISED:
JOHNS ESTATE ROAD - DOT #534 836V - M.P. 16.80 SHAMOKIN,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

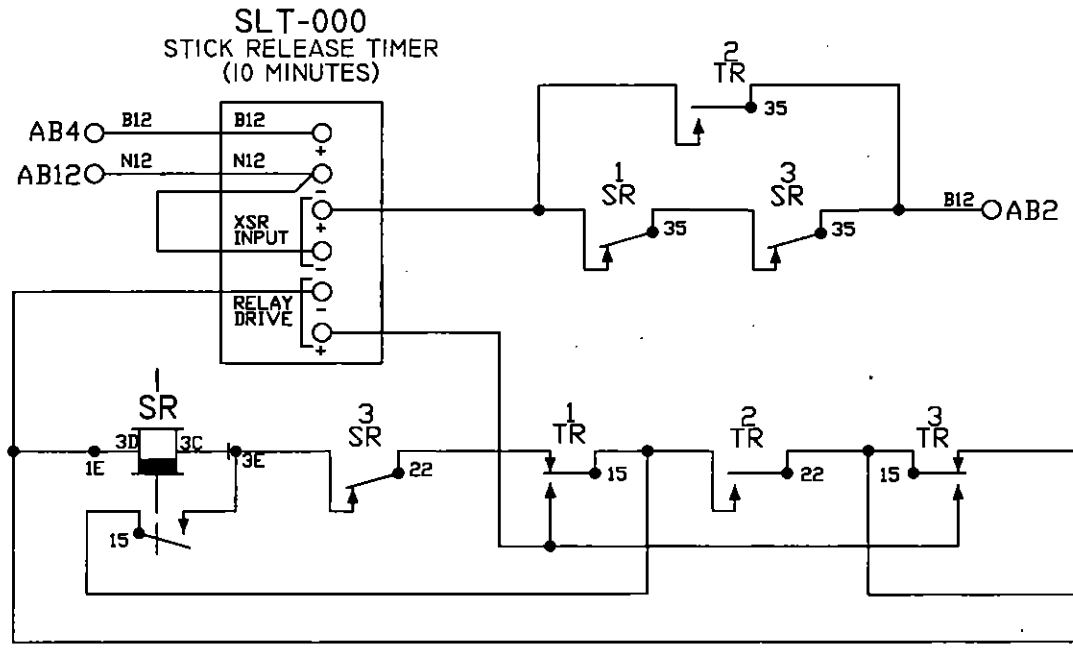
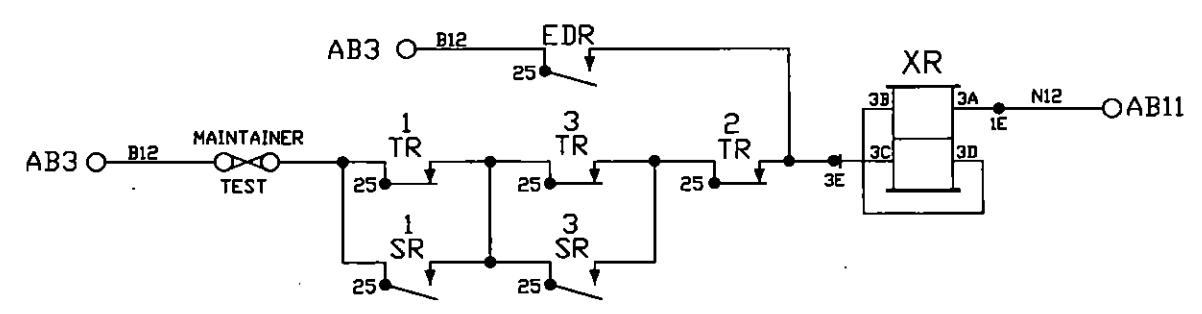
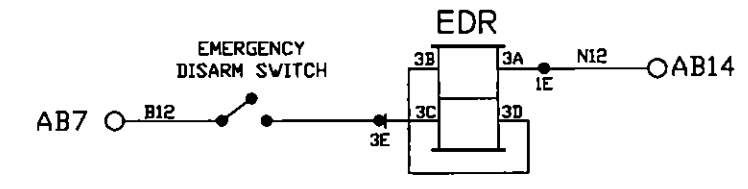
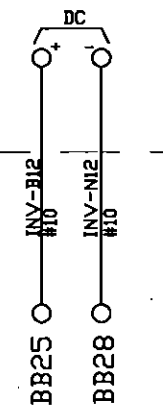
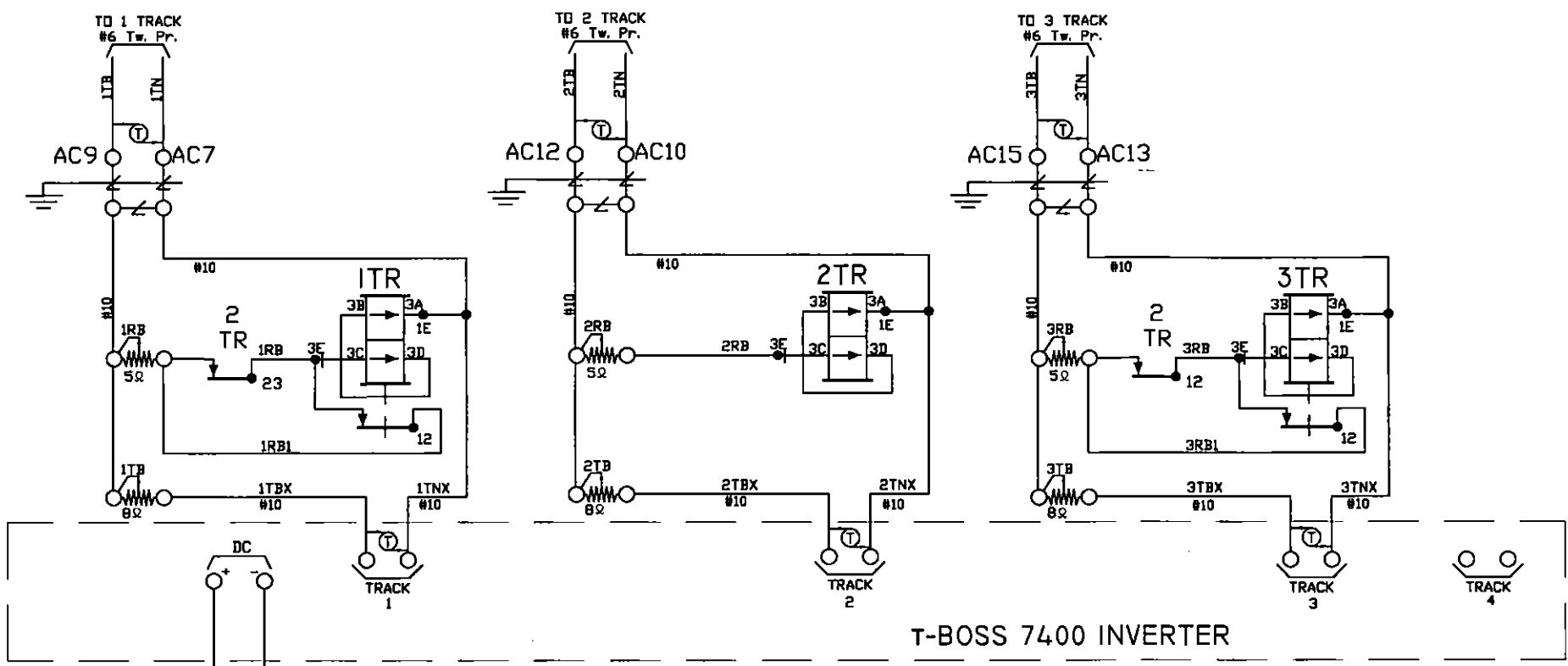
1. MATERIAL & INSTALLATION TO BE IN ACCORDANCE WITH MUTCD, STATE AND RAILROAD STANDARDS.
2. ALL DIMENSIONS ARE APPROXIMATE AND MAY VARY DUE TO ACTUAL FIELD CONDITIONS.
3. FLASHLIGHT SIGNALS & GATE LIGHTS TO BE LIGHT EMITTING DIODE ASSEMBLIES, (LED).
4.  $\text{T}$  DENOTES TWIST PAIR.

**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

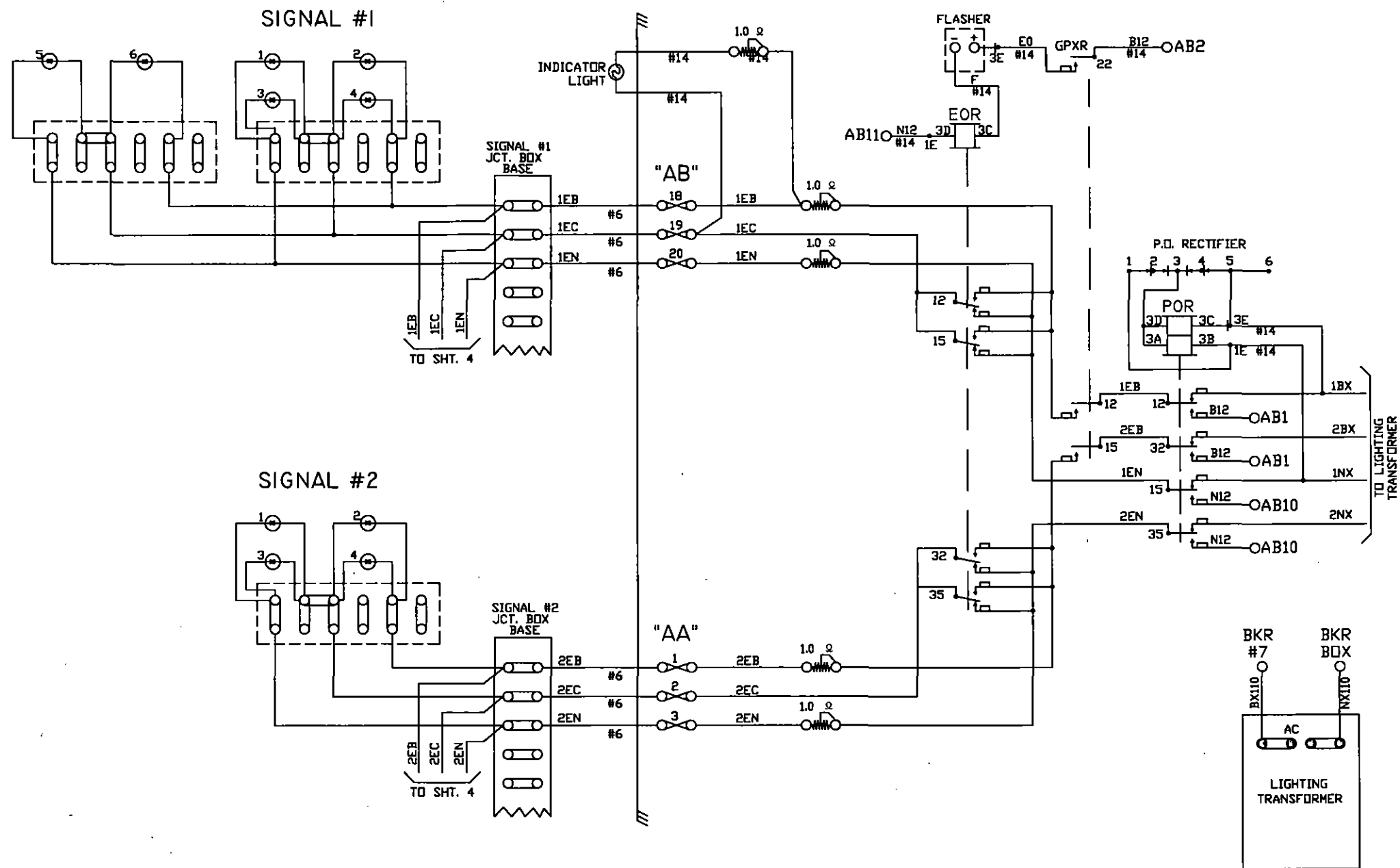
RCUD PUC SEC BLR  
FEB 23 2023 AM 10:54

<b>DIAMONDBACK SIGNAL</b> (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	



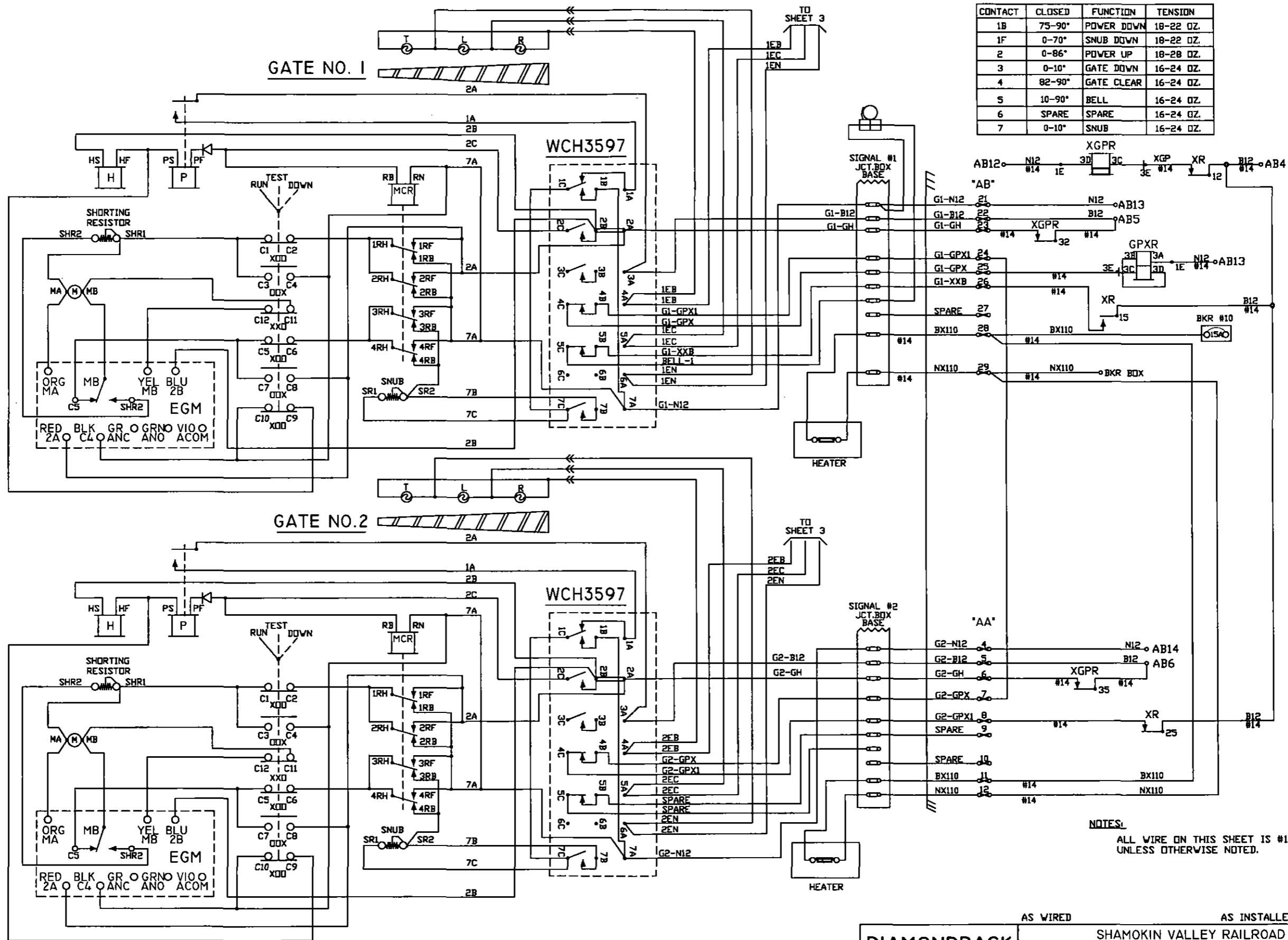
- NOTES:
1. ALL WIRE THIS SHEET IS #14 AWG FLEX UNLESS OTHERWISE NOTED.
  2. (TW) DENOTES TWISTED PAIR.

<b>DIAMONDBACK SIGNAL</b> (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.

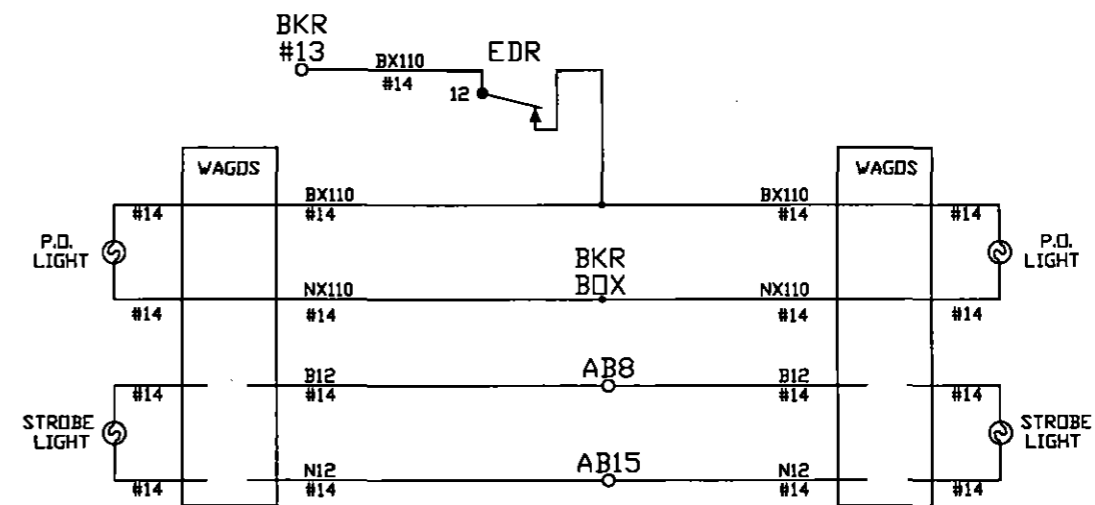
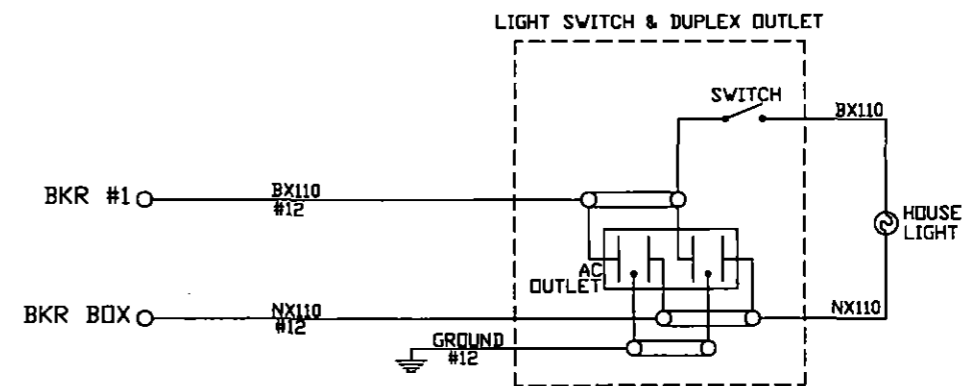
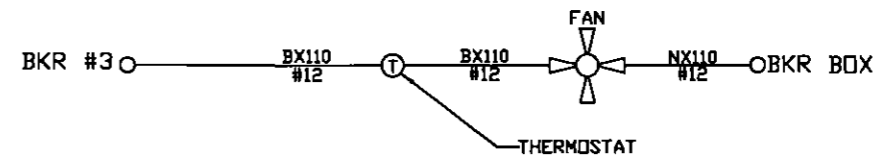
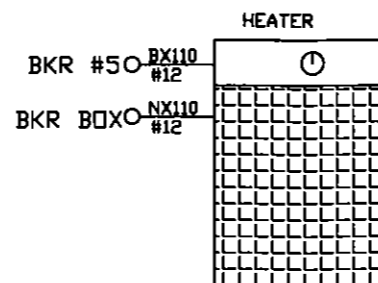
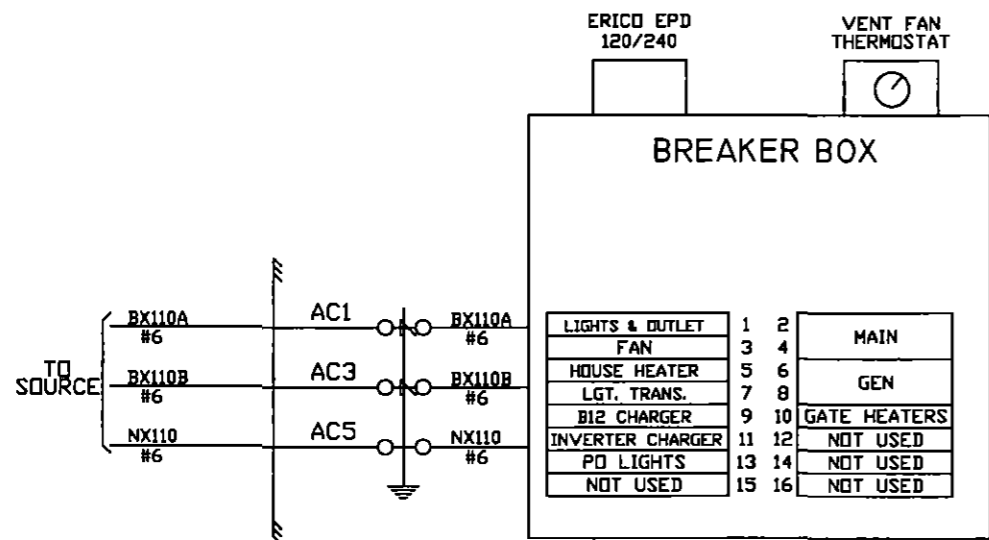
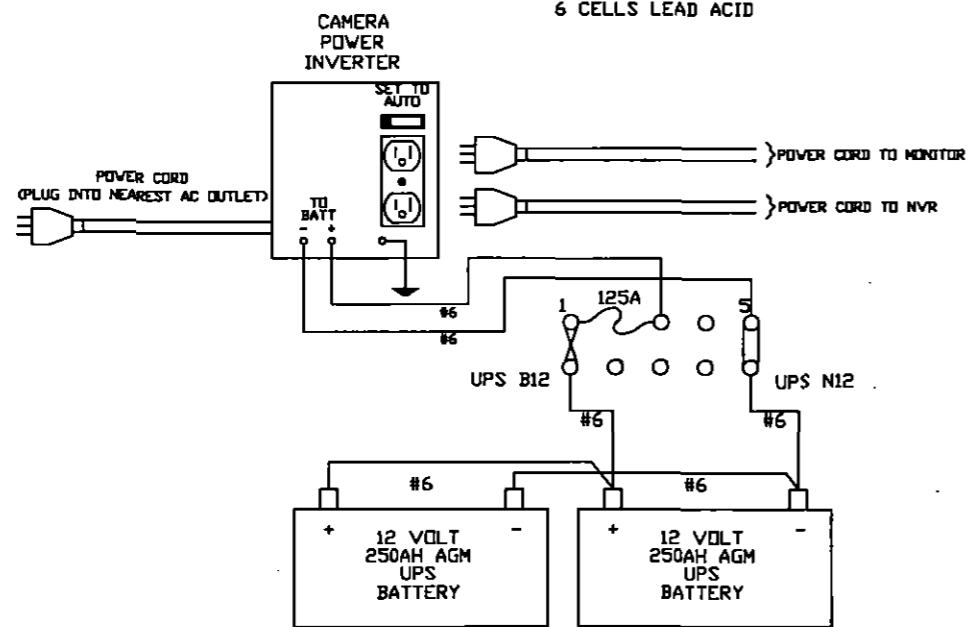
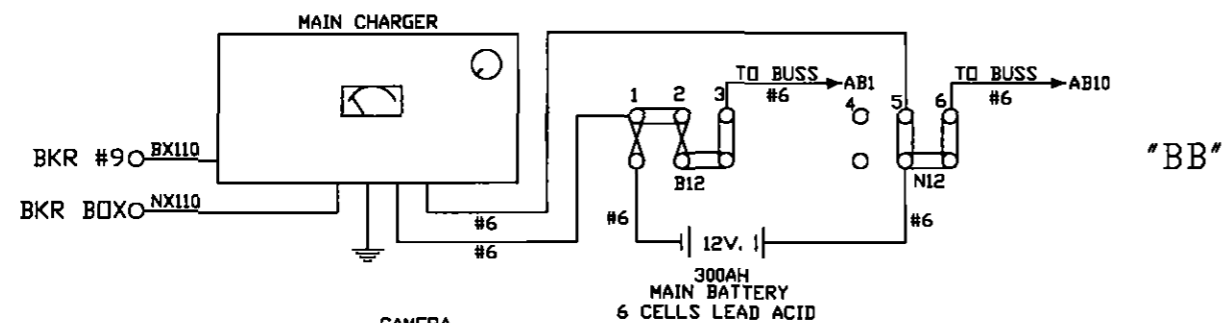
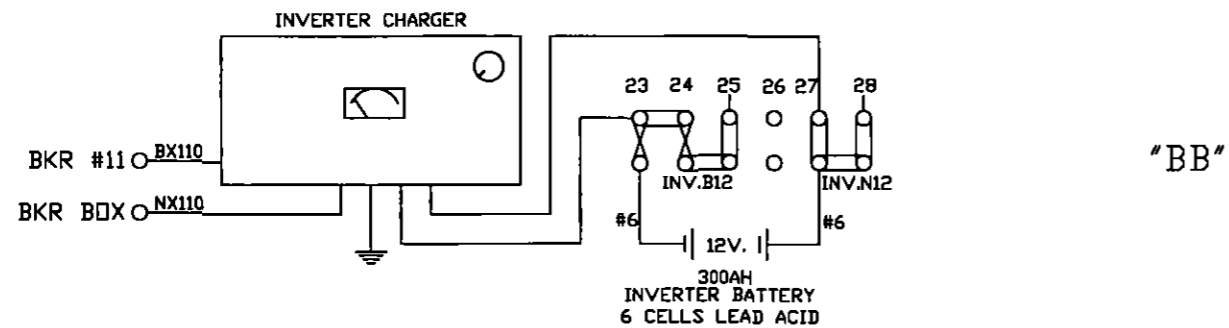
<b>DIAMONDBACK SIGNAL</b> (410) 795-9601 5965 EXCHANGE DRIVE SUITE "D" SYKESVILLE, MD 21784	AS WIRED	AS INSTALLED	
	SHAMOKIN VALLEY RAILROAD RAILROAD CROSSING WARNING DEVICES		
	SCALE: NONE	APPROVED BY:	DRAWN BY: DBS
	DATE: 03/04/2022		REVISED:
BOTTLE DRIVE - DOT # 908 949M - M.P. 0.70 PAXINOS, NORTHUMBERLAND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

<b>DIAMONDBACK SIGNAL</b> (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	



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

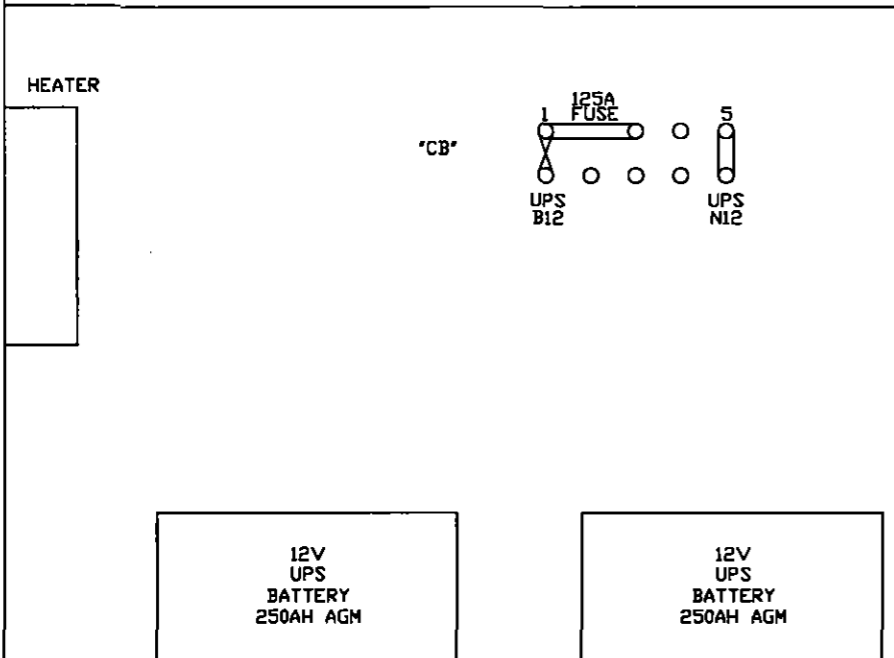
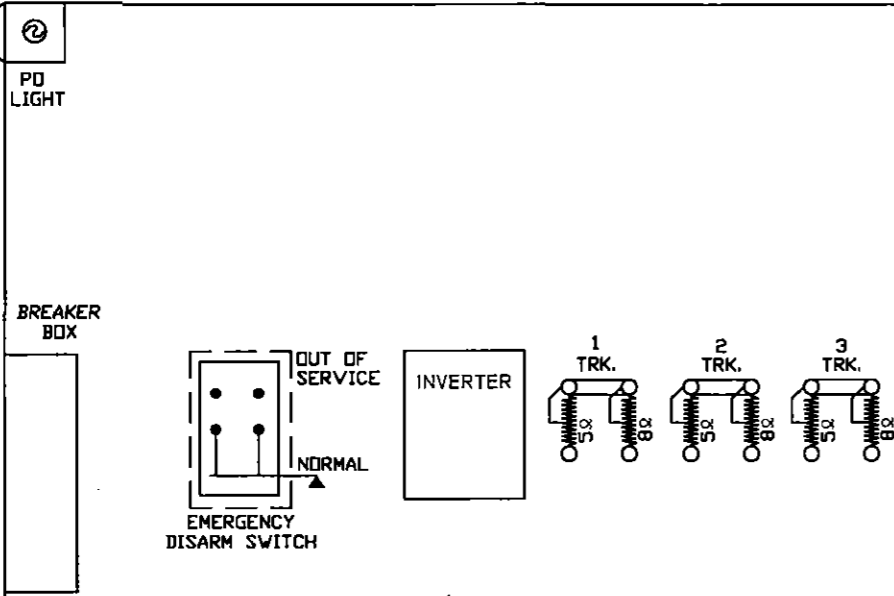
AS WIRED AS INSTALLED

<b>DIAMONDBACK SIGNAL</b> (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	REVISID	
BOTTLE DRIVE - DOT # 908 949M - M.P. 0.70 PAXINOS, NORTHUMBERLAND COUNTY, PA		
CIRCUIT PLAN "D"		DRAWING NUMBER 0.70

SIDE "C"

SIDE "A"

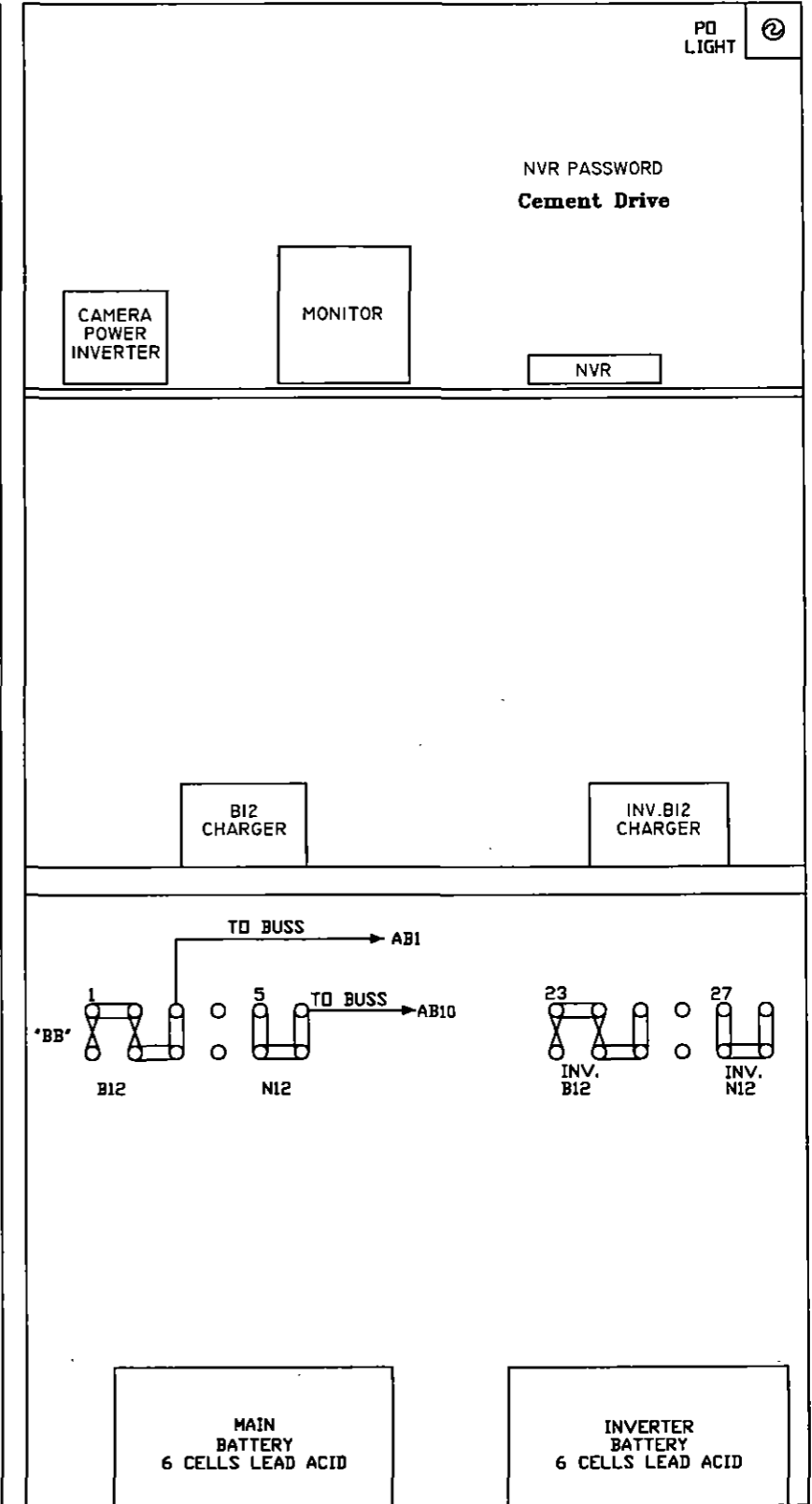
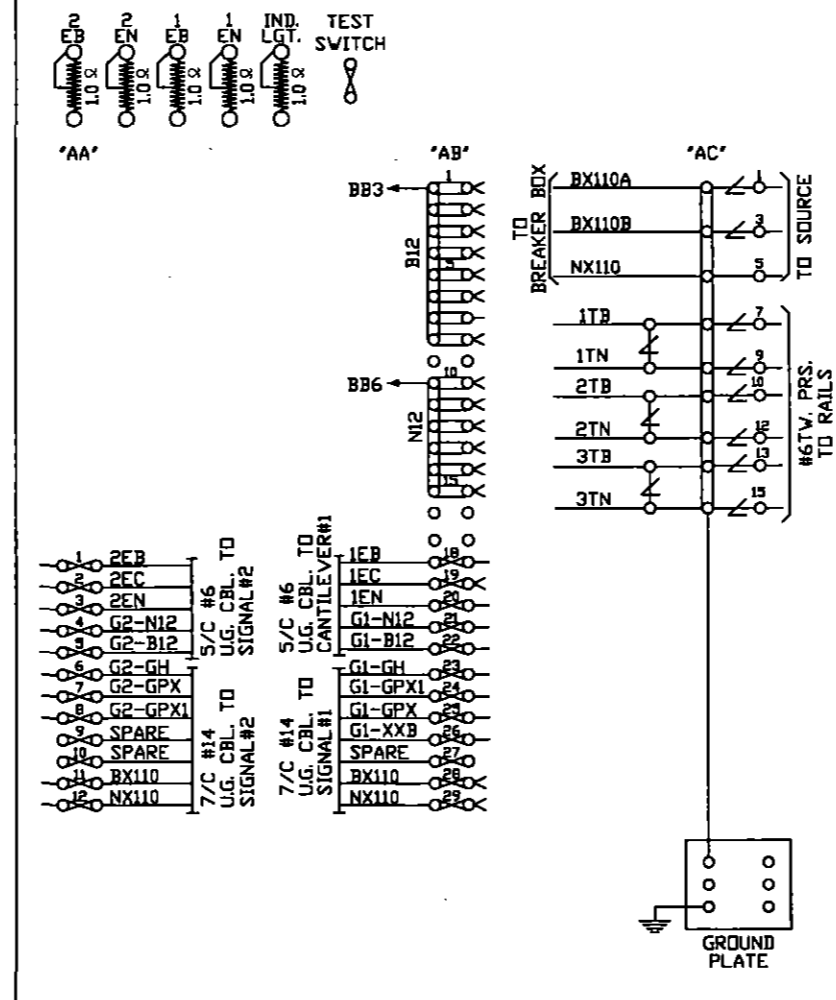
SIDE "B"



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 23 25 32 35	12 F 15 22 B 23 F 25 F 32 35 B	12 F 15 22 23 25 F 32 35 B	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)
12 15 F 22 B 23 25 F 32 35 B	12 F 15 FB 22 23 25 F 32 35	12 F 15 22 B 23 F 25 F 32 35 B	12 F 15 FB 22 23 25 F 32 35 B	12 SR 15 F 22 B 23 25 F 32 35 B	
A62-357	A62-120	A62-120	A62-120	A62-357	
400211	400510	400510	400510	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: 03/04/2022 REVISED:

BOTTLE DRIVE - DOT # 908 949M - M.P. 0.70  
PAXINOS, NORTHUMBERLAND COUNTY, PA

RELAY HOUSE LAYOUT DRAWING NUMBER 0.70