Benjamin C. Dunlap Jr.
Partner

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December 16, 2025

VIA ELECTRONIC FILING

Matthew L. Homsher, Secretary
Pennsylvania Public Utility Commission
400 North Street
Harrisburg, PA 17120

Re: ***Application of the Department of Transportation of the Commonwealth of Pennsylvania for approval to alter one (1) public at-grade crossing (DOT 918 324 S) by the installation of Z Gates at the multi-use trail along East Bayfront Parkway (State Route 4034) and alter two (2) public at-grade crossings (DOT's 524 337 C, and 524 335 N) by installing pedestrian crossing improvements and altering the pre-emption and timing where East 8th Street and East 10th Street cross the track of CSX Transportation Inc., in the City of Erie, Erie County, and the allocation of costs incident thereto. Docket No. A-2022-3036626***

Dear Mr. Homsher:

Enclosed for filing in the above-referenced matter please find the Circuitry Plans of CSX Transportation, Inc. for the review of all the parties and approval by the Pennsylvania Public Utility Commission. These plans pertain to the following crossings in the City of Erie:

- East 6th Street (DOT No. 524 137 T);
- East 8th Street (DOT No. 524 337 C); and
- East 10th Street (DOT No. 524 335 N)

Copies have been served upon all interested parties as indicated on the Certificate of Service.

Sincerely yours,

Benjamin C. Dunlap, Jr.

BCD:klg
Enclosures
cc: All Parties of Record

BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Application of the Department of Transportation of the Commonwealth of Pennsylvania for approval to alter one (1) public at-grade crossing (DOT 918 324 S) by the installation of Z Gates at the multi-use trail along East Bayfront Parkway (State Route 4034) and alter two (2) public at-grade crossings (DOT's 524 337 C, and 524 335 N) by installing pedestrian crossing improvements and altering the pre-emption and timing where East 8th Street and East 10th Street cross the track of CSX Transportation Inc., in the City of Erie, Erie County, and the allocation of costs incident thereto.	**:**	**Docket No. A-2022-3036626**
	:	**Electronically Filed**

CERTIFICATE OF SERVICE

I hereby certify that I served one (1) copy of the foregoing document in the above action, this day via electronic mail addressed to:

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/s/ Karen L. Gagne
Karen L. Gagne

Date: December 16, 2025

INDEX

SH. NO.	CONTENTS	REVISION NO. 1	2	3	4	5	6	7
1	TITLE, NOTES, INDEX AND REVISIONS	✓	✓	⊘				
2	LOCATION PLAN	✓	✓	⊘				
3	POWER DISTRIBUTION	✓	✓	⊘				
4	ELECTROLOGIXS XP4 MODULE LAYOUT			⊘				
4A	XP4 CROSSING DETECTION AND I/O CIRCUITS			⊘				
4B	XP4 SETUP INFORMATION			⊘				
5	GATE CONTROL, LIGHTING CIRCUITS AND CABLE TERMINATIONS	✓						
6	GATE MECHANISM TYPICALS	✓						
7	HARMON HIGHWAY CROSSING ANALYZER CIRCUITS	✓		⊘				
8	FRONT AND LEFT WALL LAYOUT	✓		⊘				
9	RIGHT SIDE OF HOUSE, RELAY RACK & FUNCTIONS	✓	✓	⊘				
10	TERMINAL BOARD ARRANGEMENT	✓	✓	⊘				
11	HOUSE LAYOUT	✓						
4	CONTROL CIRCUITS	✓	✓					

NOTES

▭ = FOR MATERIAL REFERENCE SEE PLAN S-1002

⊗ = DENOTES TWISTED PAIR
GROUND IN ACCORDANCE WITH CS-9001-A

REV	DATE	CKD BY
1	7-13-94	HEI
2	11-1-95	HEI

C&S CAD

PROGRESS RAIL SERVICES
A Caterpillar Company
DATE.06-24-25
CSX#.PA2021009
PRS/AMJ/SAF
= OUT
= IN

REVISIONS

1 09-16-98 — JMH | DMR

NEW PLAN DRAWN ACCOUNT
WARNING DEVICES UPGRADED AT
EAST SIXTH STREET.

P.U.C. DUE DATE:
SYSTEM FILE NO:
WO/AFE NO: 46379
IN SERVICE: 05-05-99
PER: PRD

2 05-17-02 — WPB | FAP

UPGRADE CROSSINGS AT 8TH AND
10TH STREETS.
CLOSURE OF CROSSINGS AT 7TH,
9TH AND 11TH STREETS.
CSXT PROJECT NO.: PA1999074A,
PA1999074B, PA1999075A,
PA2002030, PA2002031, PA2002032
AFE/OP NO.: W46429
IN SERVICE: 02-07-05
PER: BET
REVISED: 06-14-05 — RJG | GET

AAR/DOT *524137T

CONRAIL

ALBANY DIVISION — ERIE YARD I.T.

ERIE, PENNSYLVANIA

EAST SIXTH STREET
TITLE, NOTES, INDEX AND REVISIONS

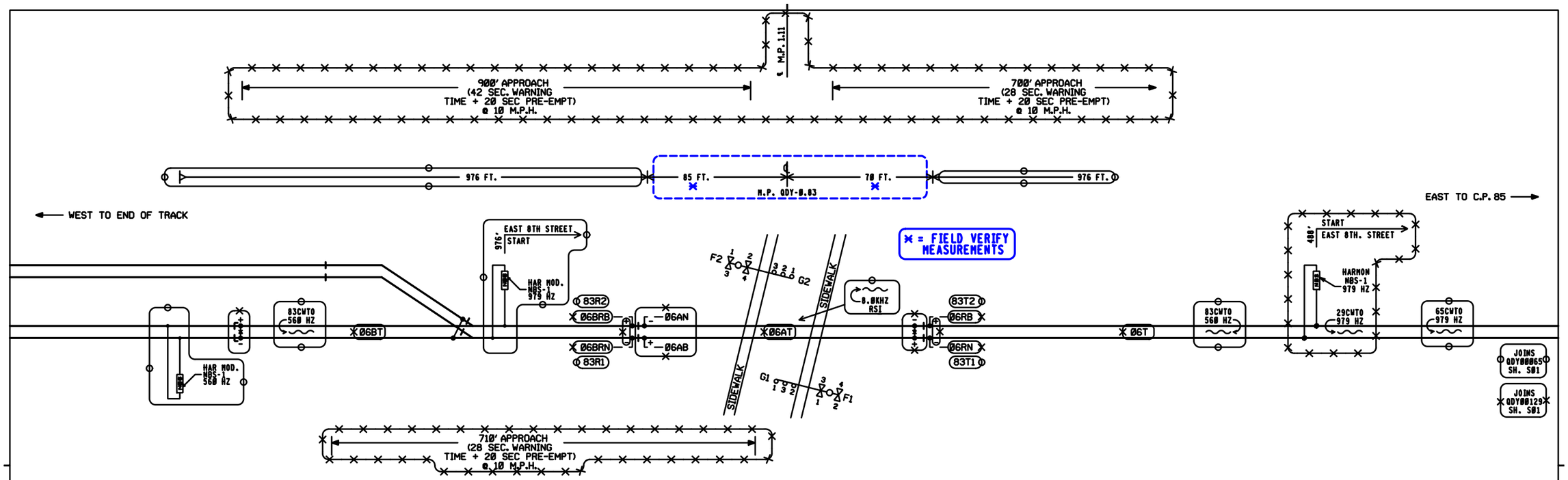
PHILADELPHIA, PA.

APPROVED: _____
CHIEF ENGINEER - C&S

ISSUE DATE: 09-16-98 — 3515-0011

DSR SAV JWR REV. (3) 06-24-25
(2) 05-05-99
SHEET 1 OF 11

CXCG1.T0C



* = FIELD VERIFY MEASUREMENTS

EAST SIXTH STREET

WARNING DEVICES TO BE INSTALLED IN
ACCORDANCE WITH THE M.U.T.C.D.
AAR/DOT #524137T

APPROACH LENGTHS TABLE DC, AFO, TYPE C, MOTION, CWT, OR OTHER	EASTBOUND TRACK 1 CWT	WESTBOUND TRACK 1 CWT
STANDARD MINIMUM WARNING TIME IN SECONDS	25	25
ROADWAY GATE TIME IN SECONDS	5	5
CLEARANCE TIME IN SECONDS	0	0
DOT TRAFFIC LIGHT SIMULTANEOUS PREEMPT TIME IN SECONDS*	0	0
PRESCRIBED WARNING TIME FOR TRAINS AT TIME TABLE SPEED	30 SEC.	30 SEC.
DOT TRAFFIC LIGHT ADVANCE PREEMPT TIME IN SECONDS *	20	20
CONTROL EQUIPMENT DECISION TIME IN SECONDS	4	4
DESIGNED DETECTION TIME FOR TRAINS AT TIME TABLE SPEED	54 SEC.	54 SEC.
TIME TABLE MAXIMUM TRAIN SPEED IN MILES PER HOUR	10	10
BUFFER SPEED IN MILES PER HOUR	2.5	2.5
TOTAL WARNING SYSTEM DESIGN SPEED IN MILES PER HOUR	12.5	12.5
APPROACH DISTANCE TO ISLAND EDGE IN FEET	976	976
HALF WIDTH OF ISLAND IN FEET	85	70
APPROXIMATE MILE POSTS FOR APPROACH CIRCUIT	0.63	1.03

*AUTHORIZING AGENCY: PENN DOT
*DATE OF REQUIREMENT: 05-21-24
*AMOUNT OF TIME (SEC.): 20 SEC

4X6 HOUSE CABLES

③ ②(2 COND. #6), TWISTED U.G. CABLES TO TRACKS
2 (17 COND. 2#6,8#9,7#14), U.G. CABLES TO GATES/FLASHERS
1 (5 COND. #14), U.G. CABLE TO TRAFFIC CONTROL
1 (3 COND. #2 W/GRND.), TO COMMERCIAL POWER SERVICE

(---) = EXISTING
(——) = NOTE

PROGRESS RAIL SERVICES
A Caterpillar Company
DATE.06-24-25
CSX#.PA2021009
PRS/AMJ/SAF

—X—X— = OUT
—O—O— = IN

REV	DATE	CKD BY
1	7-13-94	HEI
2	11-1-95	HEI

C&S CAD

CONRAIL

EAST SIXTH STREET — ERIE, PENNSYLVANIA

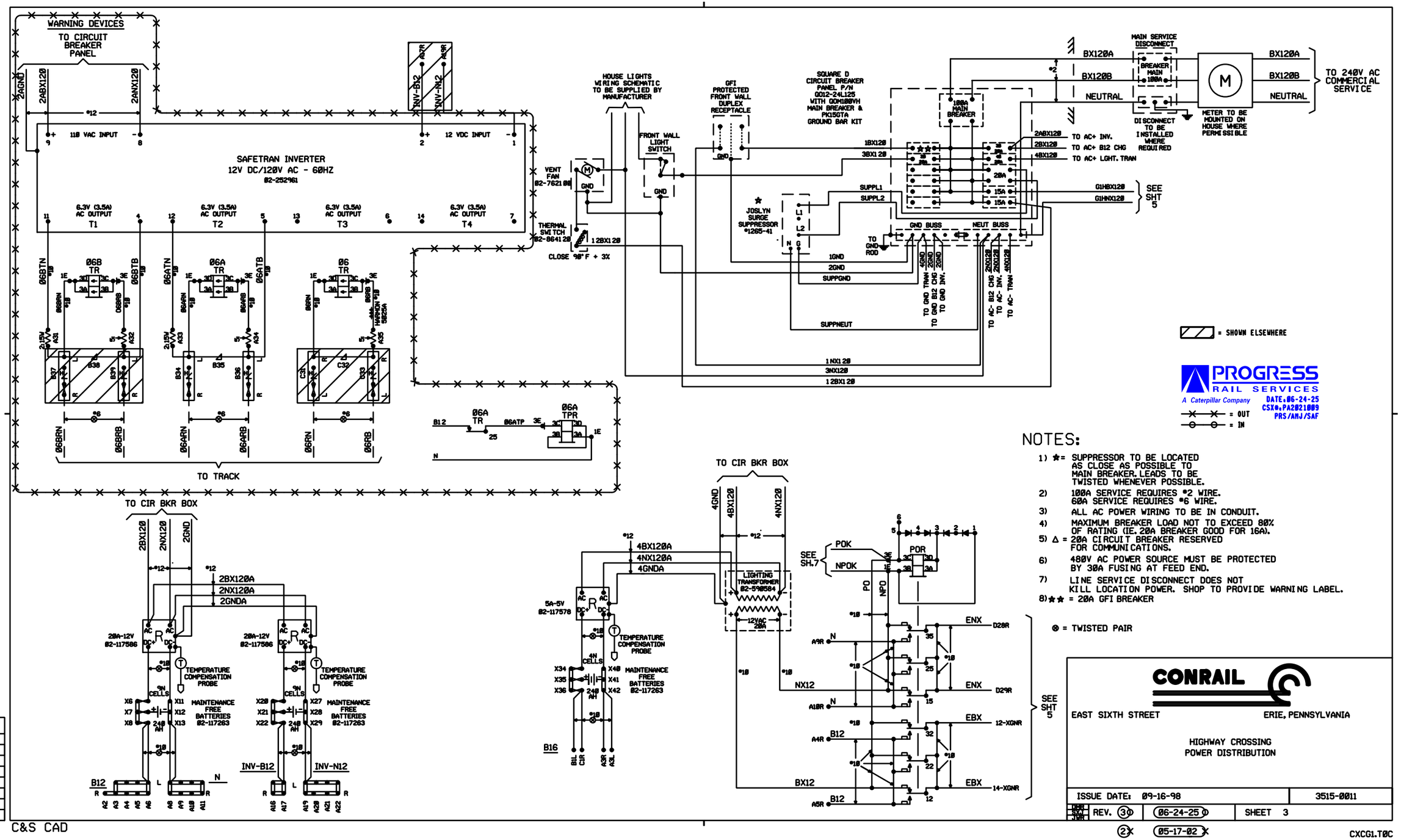
HIGHWAY CROSSING
LOCATION PLAN

ISSUE DATE: 09-16-98 — 3515-0011

REV. ③0 06-24-25 — SHEET 2

②X 05-17-02

CXCG1.T0C



NOTES:

1) ★= SUPPRESSOR TO BE LOCATED AS CLOSE AS POSSIBLE TO MAIN BREAKER. LEADS TO BE TWISTED WHENEVER POSSIBLE.
2) 100A SERVICE REQUIRES #2 WIRE. 60A SERVICE REQUIRES #6 WIRE.
3) ALL AC POWER WIRING TO BE IN CONDUIT.
4) MAXIMUM BREAKER LOAD NOT TO EXCEED 80% OF RATING (IE. 20A BREAKER GOOD FOR 16A).
5) Δ = 20A CIRCUIT BREAKER RESERVED FOR COMMUNICATIONS.
6) 480V AC POWER SOURCE MUST BE PROTECTED BY 30A FUSING AT FEED END.
7) LINE SERVICE DISCONNECT DOES NOT KILL LOCATION POWER. SHOP TO PROVIDE WARNING LABEL.
8) ★★ = 20A GFI BREAKER

⊗ = TWISTED PAIR

REV	DATE	CKD BY
1	7-13-94	HEI
2	11-1-95	HEI

PROGRESS RAIL SERVICES
A Caterpillar Company

DATE:06-24-25
CSX#:PA2021089
PRS/AMJ/SAF

CONRAIL

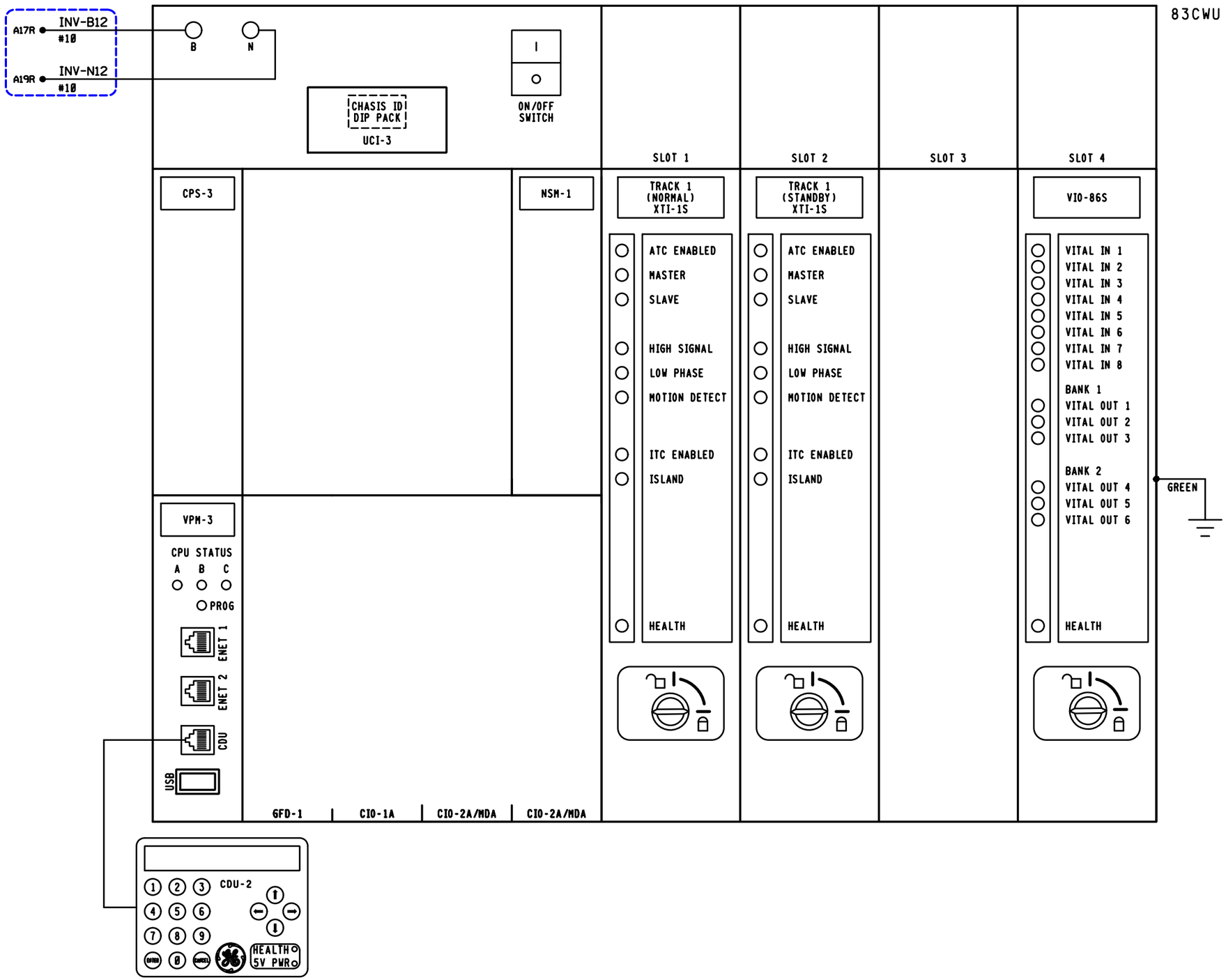
EAST SIXTH STREET — ERIE, PENNSYLVANIA

HIGHWAY CROSSING
POWER DISTRIBUTION

ISSUE DATE: 09-16-98	3515-0011
REV. 3 06-24-25	SHEET 3
2 05-17-02	

C&S CAD

CXCG1.T0C



CSX TRANSPORTATION

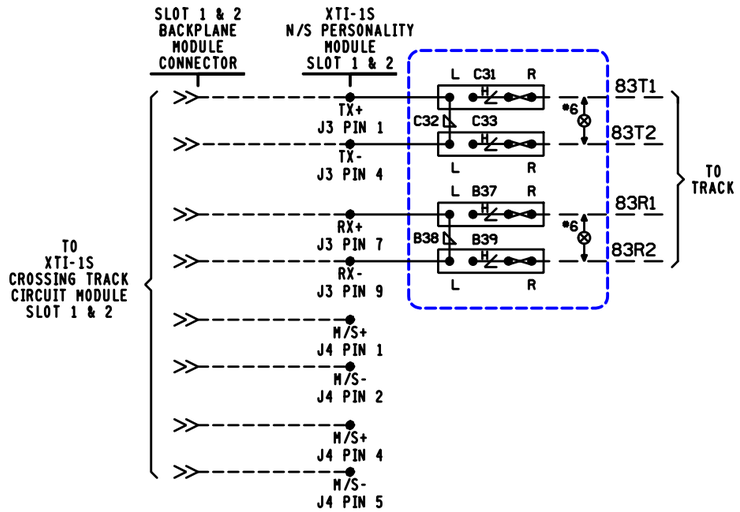
RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS

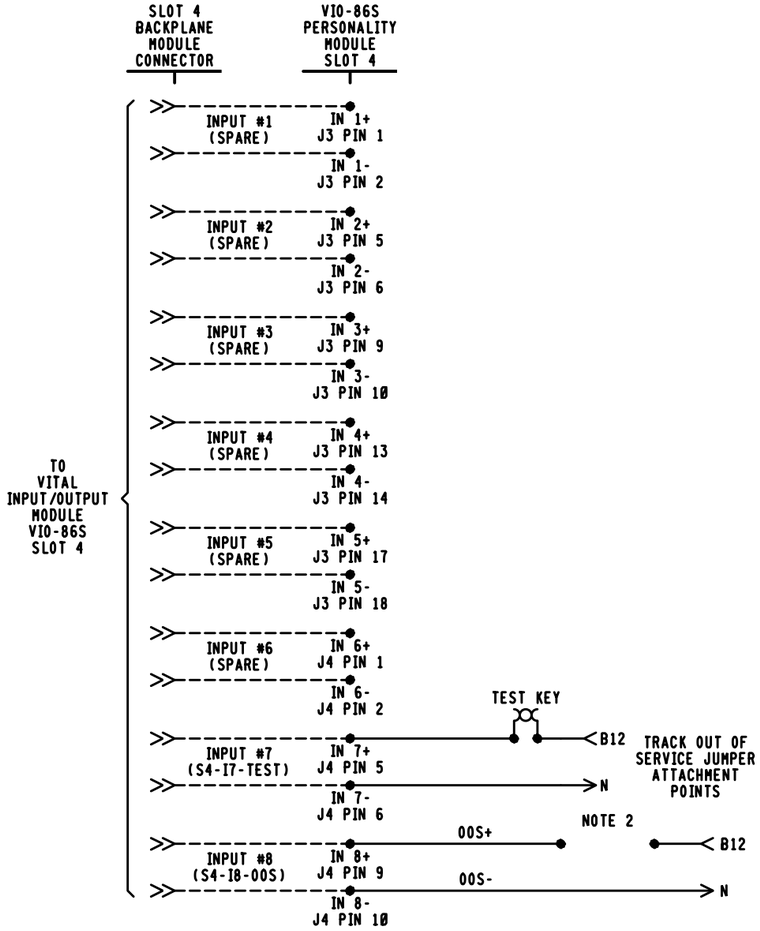
EAST 6TH ST. 524137T

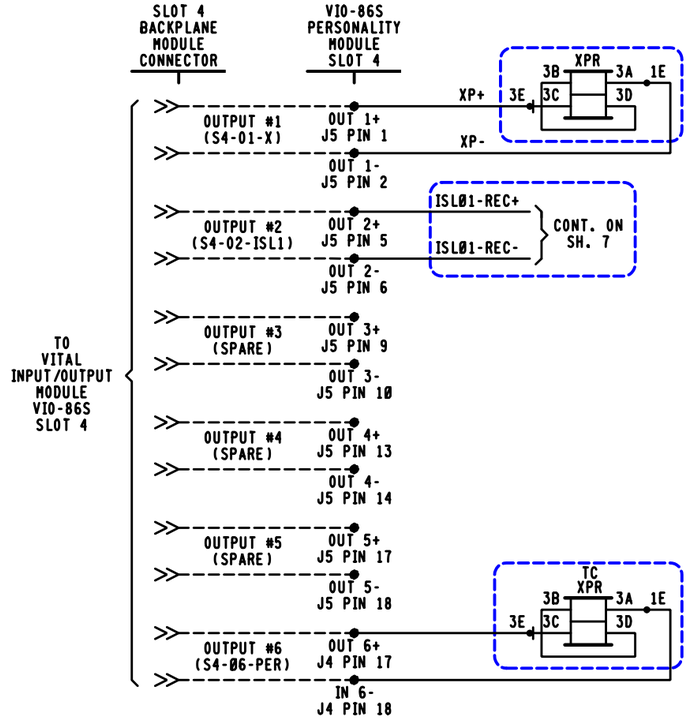
ELECTROLOGIXS XP4 MODULE LAYOUT
ERIE, PA M.P. QDY-0.83

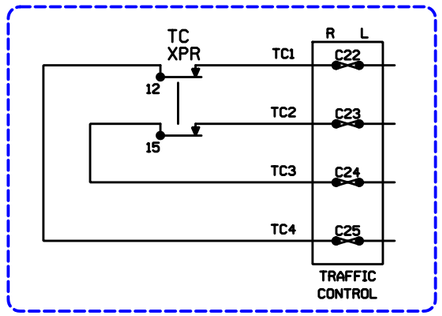
DESIGNED	DIGITIZED	CHECKED	DATE
PRS/AMJ	PRS/AMJ	PRS/SAF	06-24-25

DESIGN DATE	REV. NO.	DRAWING	SHEET NO	FILE	SHEET
06-24-25	3	-----	-----	QDY00083	4









SLOT 4 I/O	
INPUT 1	(SPARE)
INPUT 2	(SPARE)
INPUT 3	(SPARE)
INPUT 4	(SPARE)
INPUT 5	(SPARE)
INPUT 6	(SPARE)
INPUT 7	CROSSING ACTIVATION TEST
INPUT 8	OUT OF SERVICE JUMPER INPUT (00S)
OUTPUT 1	X OUTPUT
OUTPUT 2	ISL01 OUTPUT
OUTPUT 3	(SPARE)
OUTPUT 4	(SPARE)
OUTPUT 5	(SPARE)
OUTPUT 6	TRAFFIC SIGNAL PREEMPTION OUTPUT

= EXISTING

PROGRESS RAIL SERVICES
A Caterpillar Company
NEW WORK
DATE:06-24-25
CSX#:PA2021009
PRS/AMJ/SAF

NOTES
1. ALL WIRE THIS SHEET #16 AWG UNLESS NOTED.
2. APPROACH DISABLE JUMPER INPUT. THIS INPUT IS USED IN COMBINATION WITH THE SOFT APPROACH DISABLE ACCESSED THROUGH THE CDU-2 KEYPAD. BOTH BITS MUST BE HIGH TO DISABLE AN APPROACH. THE OPERATOR IS SOLELY RESPONSIBLE FOR CROSSING PROTECTION WHEN THE APPROACH DISABLE FUNCTION IS ACTIVATED.

CSX TRANSPORTATION
RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS

EAST 6TH ST. 524137T

XP4 CROSSING DETECTION AND I/O CIRCUITS
ERIE, PA M.P. QDY-0.83

DESIGNED	DIGITIZED	CHECKED	DATE
PRS/AMJ	PRS/AMJ	PRS/SAF	06-24-25

DESIGN DATE	REV. NO.	DRAWING	SHEET NO	FILE	SHEET
06-24-25	3	-----	-----	QDY00083	4A

SITE SPECIFIC MDR DESCRIPTIONS AND SETTINGS			
NAME		MDR1	MDR2
FUNCTION		XR	PER
WARNING TIME		30	50
CW/MD		CW	CW
AP TIME(PREEMPT)		20	NA
CWE-WT		80	80
AUX RECOVERY DELAY		NA	NA
TRACK		TK 1	TK 1
TRACK ASSIGNED		ASSIGNED	ASSIGNED
OFFSET DISTANCE		0'	0'
MD RESTART		0*	0*
SUDDEN SHUNT ZONE		0*	0*
POSITIVE START	PSEN	DISABLE	DISABLE
	PSRX	NA	NA
	PST	NA	NA
POST JOINT DETECT	PJEN	ENABLE	ENABLE
	PJRX	15	15
	PJDT	15	15
CLEAR JOINT LOS	CJ-LOS MODE	STANDARD	STANDARD
	CJ-LOS RX	15	15
	CJ-LOS TIME	99	99

BASIC TRACK SETUP	
	TRACK 1
FREQUENCY	560 HZ
MASTER/SLAVE	MASTER
RX ADJUST	100 *
TCA	*
DIRECTION MODE	BI
LIA	*
ADVANCED APPROACH	*
NBS COMP RX	*
TRK ISLAND ASSIGN	ISL1
APPROACH LENGTH	976'
AUTO RX	ENABLE

ADVANCED TRACK SETUP		
		TRACK 1
MOTION DET TIMER	MDEN	DISABLE
	MDTT	10 MIN
FALSE SHUNT	FSEN	DISABLE
	FSRX	NA
	FST	NA
APPROACH RELEASE	AREN	DISABLE
	ARRX	NA
	ART	NA
LOS TIME		16 SEC
IJ-LOS TIME		5 SEC
NRML*SHRT*VRYSHRT		*

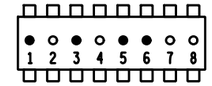
ISLAND SETUP	
	TRACK 1
ENABLE/DISABLE	ENABLE
FREQUENCY	8.0 KHZ
LOSS OF SHUNT	2 SEC.
FAULT DELAY	2

VPM3 ETHERNET SETUP	
	IP ADDRESS
ETHERNET PORT 1 (TOP)	192.168.0.11
ETHERNET PORT 2 (BOTTOM)	192.168.1.12

APPLICATION SOFTWARE INFORMATION	
NAME	524137T_0.83
REV.	1.0
CHECKSUM	XXXX ✕
CRC	XXXX ✕
CH. I.D.	83

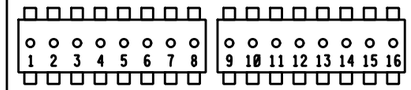
✕ = FIELD TO PROVIDE ON A.I.S.

CHASSIS ID DIP SHUNTS
LOCATED ON BACKPLANE
UNDERNEATH UCI-3 MODULE



○ = TAB INTACT (MADE)
● = TAB PUNCHED OUT (BROKEN)

VITAL SELECTION DIP SHUNTS
LOCATED INSIDE UCI-3 MODULE
UNDERNEATH EPROM



○ = TAB INTACT (MADE)
● = TAB PUNCHED OUT (BROKEN)

VITAL SELECTION DIP SHUNTS		
#	NAME	STATE
1	NA	INTACT (NOT USED)
2	NA	INTACT (NOT USED)
3	NA	INTACT (NOT USED)
4	NA	INTACT (NOT USED)
5	NA	INTACT (NOT USED)
6	NA	INTACT (NOT USED)
7	NA	INTACT (NOT USED)
8	NA	INTACT (NOT USED)
9	NA	INTACT (NOT USED)
10	NA	INTACT (NOT USED)
11	NA	INTACT (NOT USED)
12	NA	INTACT (NOT USED)
13	NA	INTACT (NOT USED)
14	NA	INTACT (NOT USED)
15	NA	INTACT (NOT USED)
16	NA	INTACT (NOT USED)

NOTES.
= FIELD ADJUSTMENT
NA = NOT APPLICABLE

( ) = NOTE

PROGRESS RAIL SERVICES
A Caterpillar Company
NEW WORK

DATE.06-24-25
CSX#.PA2021009
PRS/AMJ/SAF

CSX TRANSPORTATION
RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS

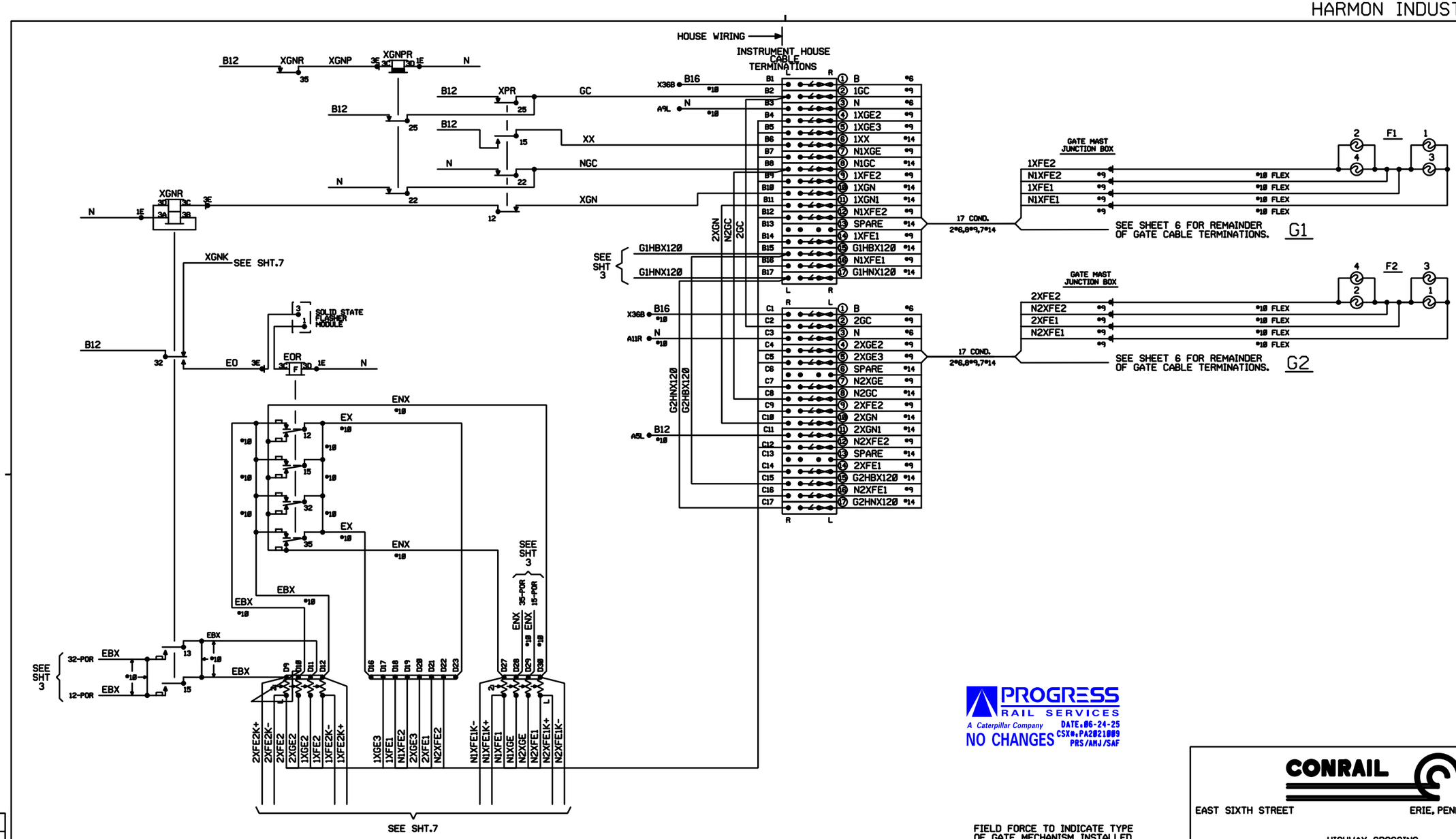
EAST 6TH ST. 524137T

XP4 SETUP INFORMATION
ERIE, PA M.P. QDY-0.83

DESIGNED	DIGITIZED	CHECKED	DATE
PRS/AMJ	PRS/AMJ	PRS/SAF	06-24-25

DESIGN DATE	REV. NO.	DRAWING	SHEET NO	FILE	SHEET
06-24-25	3	-----	-----	QDY00083	4B

HARMON INDUSTRIES, INC.



REV	DATE	CKD BY
1	7-13-94	HEI
2	11-1-95	HEI

C&S CAD

PROGRESS RAIL SERVICES
A Caterpillar Company
NO CHANGES
DATE: 06-24-25
CSX#: PA2021869
PRS/AMJ/SAF

FIELD FORCE TO INDICATE TYPE OF GATE MECHANISM INSTALLED

MANUFACTURER W- C- HAYES

MODEL NAME OR NO. 3593B

NUMBER OF BELLS ONE

(SEE SHEET 6 FOR TYPICAL MECHANISMS)

CONRAIL

EAST SIXTH STREET ERIE, PENNSYLVANIA

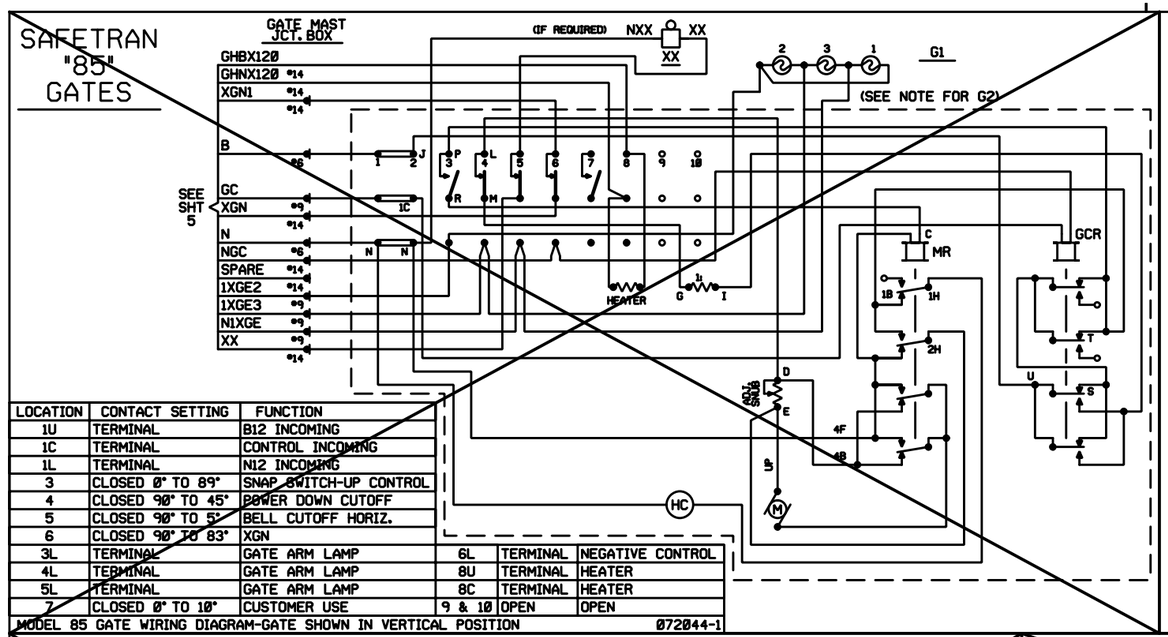
HIGHWAY CROSSING
GATE CONTROL, LIGHTING CIRCUITS
AND CABLE TERMINATIONS

ISSUE DATE: 09-16-98		3515-0011
DRN SCH JOB REV. 1	05-05-99	SHEET 5

CXCG1.T0C

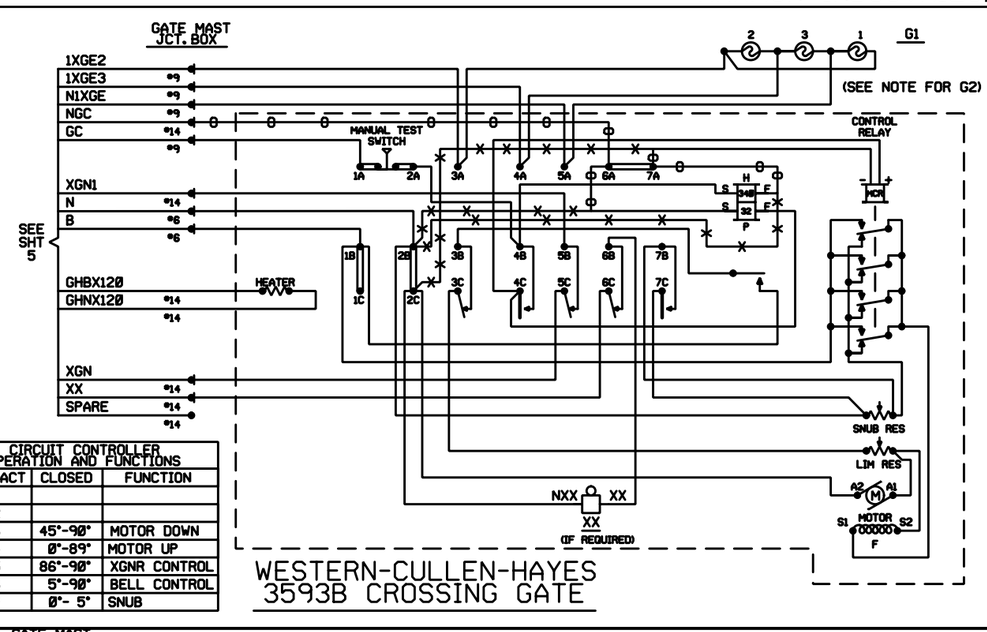
HARMON INDUSTRIES, INC.

SAFETRAN "85" GATES



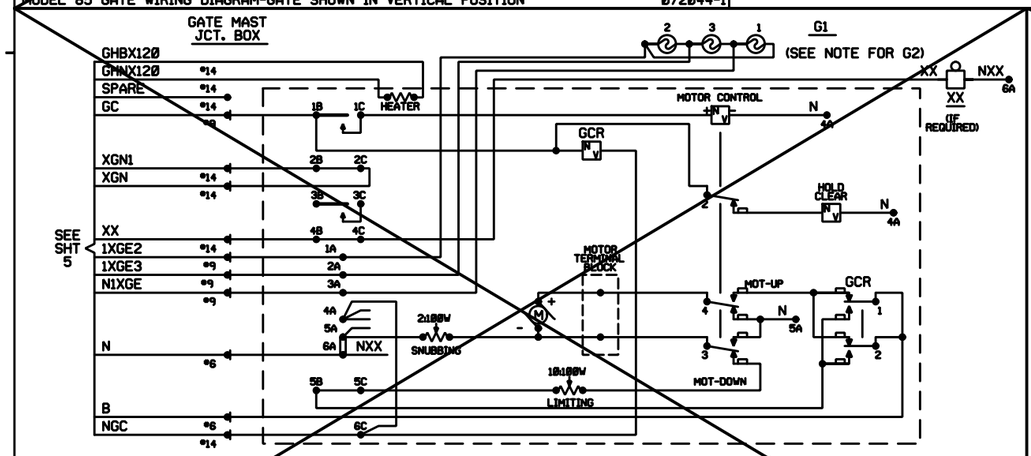
LOCATION	CONTACT SETTING	FUNCTION			
1U	TERMINAL	B12 INCOMING			
1C	TERMINAL	CONTROL INCOMING			
1L	TERMINAL	N12 INCOMING			
3	CLOSED 0° TO 89°	SNAP SWITCH-UP CONTROL			
4	CLOSED 90° TO 45°	POWER DOWN CUTOFF			
5	CLOSED 90° TO 5°	BELL CUTOFF HORIZ.			
6	CLOSED 90° TO 83°	XGN			
3L	TERMINAL	GATE ARM LAMP	6L	TERMINAL	NEGATIVE CONTROL
4L	TERMINAL	GATE ARM LAMP	8U	TERMINAL	HEATER
5L	TERMINAL	GATE ARM LAMP	8C	TERMINAL	HEATER
7	CLOSED 0° TO 10°	CUSTOMER USE	9 & 10	OPEN	OPEN

MODEL 85 GATE WIRING DIAGRAM-GATE SHOWN IN VERTICAL POSITION 072044-1



CIRCUIT CONTROLLER OPERATION AND FUNCTIONS		
CONTACT	CLOSED	FUNCTION
1		
2		
3	45°-90°	MOTOR DOWN
4	0°-89°	MOTOR UP
5	86°-90°	XGNR CONTROL
6	5°-90°	BELL CONTROL
7	0°- 5°	SNUB

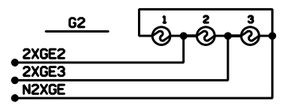
WESTERN-CULLEN-HAYES 3593B CROSSING GATE

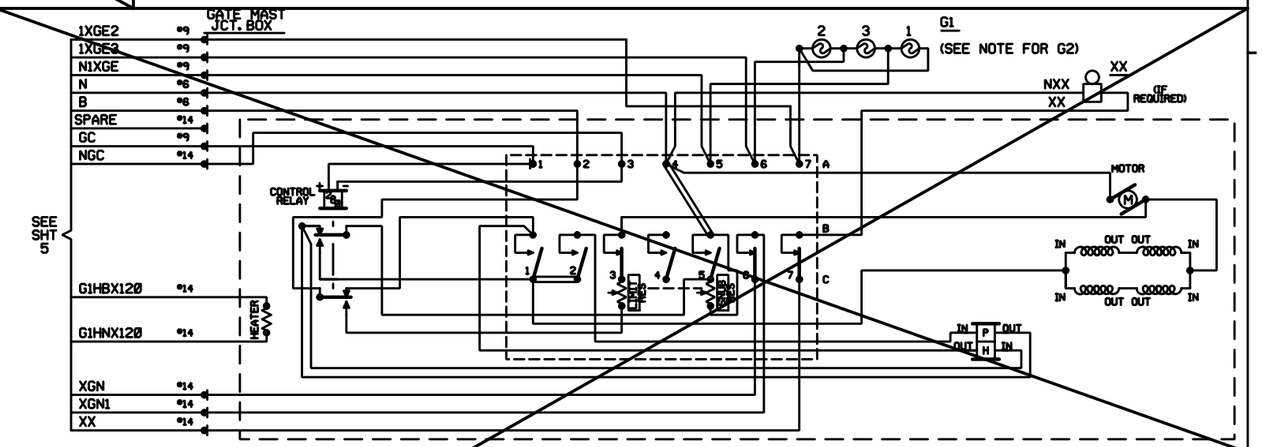


CIRCUIT CONTROLLER DATA			
CONTACT	CONTACT CLOSED	CAM DRIVES CONTACT	CONTACT FUNCTION
1B-1C	8°-89° UP 83°- 8° DOWN	CLOSED	TO CUT OFF MOTOR AFTER GATE HAS CLEARED
2B-2C	86°-93°	CLOSED	CONTROL XGN RELAY
3B-3C	0°-10°	CLOSED	SPARE
4B-4C	5°-93°	OPEN	TO OPEN BELL CIRCUIT WHEN ARM IS HORIZONTAL
5B-5C	46°-93°	OPEN	TO OPEN MOTOR DOWN CIRCUIT

MODEL 75 WABCO GATE MECHANISMS N451483-0101

NOTE: MECHANISMS SHOWN FOR GATE ARMS IN VERTICAL POSITION. EACH HIGHWAY GATE TO BE WIRED SAME AS SHOWN, EXCEPT FOR LIGHTS (SEE DIAGRAM G2). SIDEWALK ARMS ON HIGHWAY GATES TO HAVE STEADY-LIT LIGHT. 2XGN1 IN G2 WILL BECOME B12..





G.R.S. MODEL 10 WITH 3567 MECHANISM

CIRCUIT CONTROLLER OPERATION AND FUNCTIONS					
CONTACT SPACE NO.	CLEARING		DESCENDING		FUNCTION OF CONTACT
	CLOSES	OPENS	CLOSES	OPENS	
1	--	88°	78°	--	UP MOTOR CUT-OUT
2	76°	85°	85°	76°	HOLD CLEAR CONTROL
3		--	--		DOWN MOTOR CUT-OUT
4	--	5°	5°	--	SPARE
5	--	5°	5°	--	SNUB RESISTOR SHUNT
6	85°	--	--	85°	XGNR CONTROL
7	6°			6°	BELL CONTROL

REV	DATE	CKD BY
1	7-13-94	HEI
2	11-1-95	HEI

PROGRESS RAIL SERVICES
A Caterpillar Company
DATE.06-24-25
CSX#.PA2021009
NO CHANGES PRS/AMJ/SAF

C&S CAD

CONRAIL

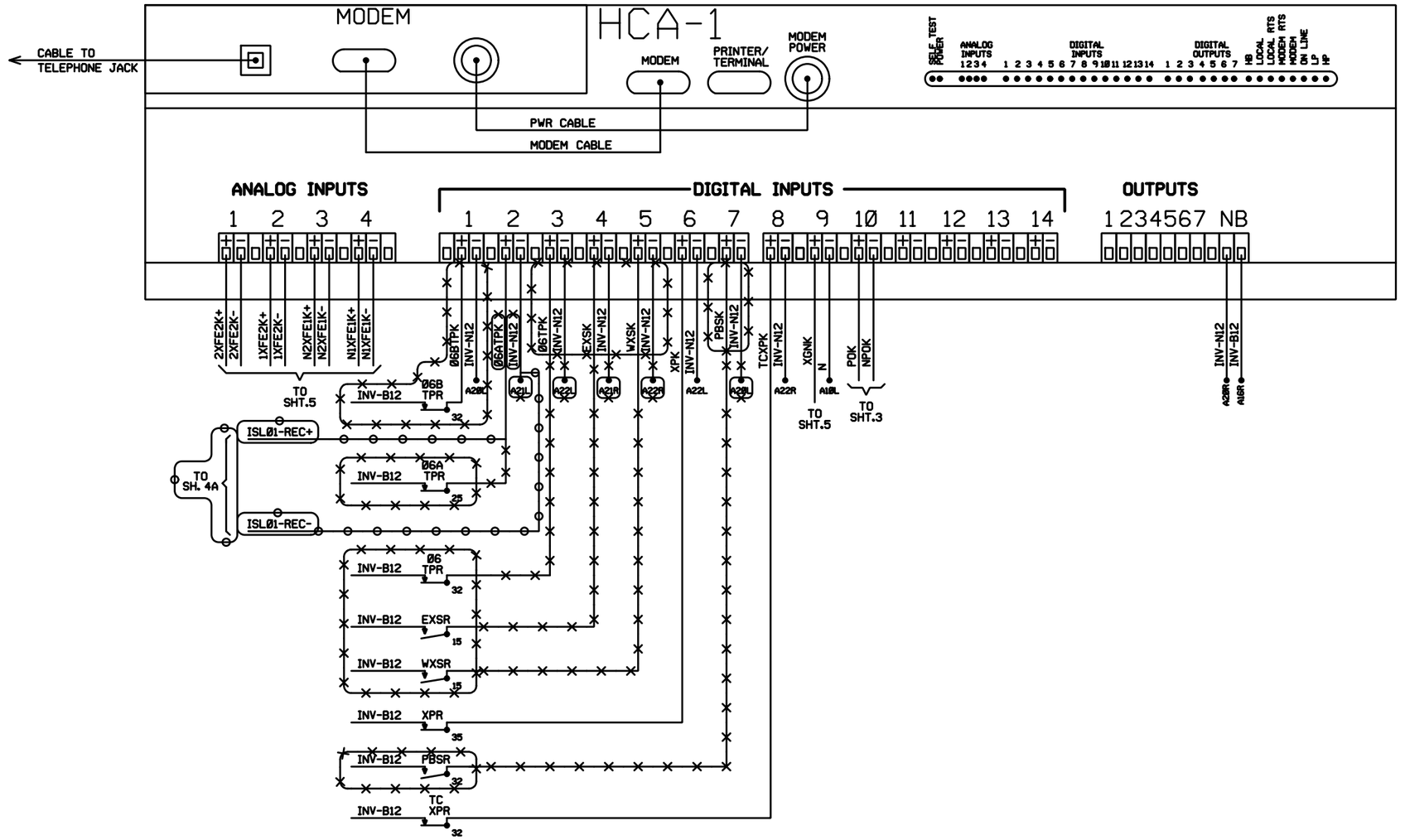
EAST SIXTH STREET ERIE, PENNSYLVANIA

HIGHWAY CROSSING
GATE MECHANISM TYPICALS

ISSUE DATE: 09-16-98			3515-0011
DRN SCH JOB	REV. 1	05-05-99	SHEET 6

CXCG1.T0C

HARMON INDUSTRIES, INC.



REV	DATE	CKD BY
1	7-13-94	HEI
2	11-1-95	HEI

C&S CAD

PROGRESS RAIL SERVICES
A Caterpillar Company
= OUT
= IN
DATE.Ø6-24-25
CSX0.PA2021009
PRS/AMJ/SAF

CONRAIL

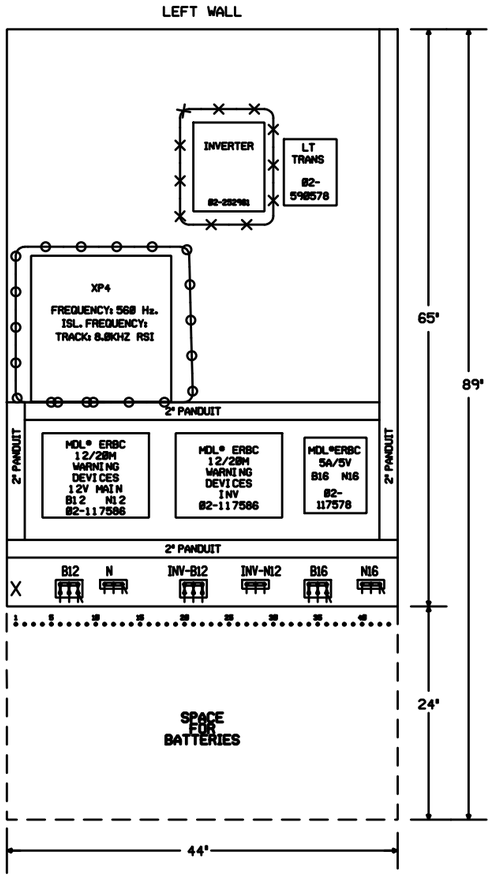
EAST SIXTH STREET ERIE, PENNSYLVANIA

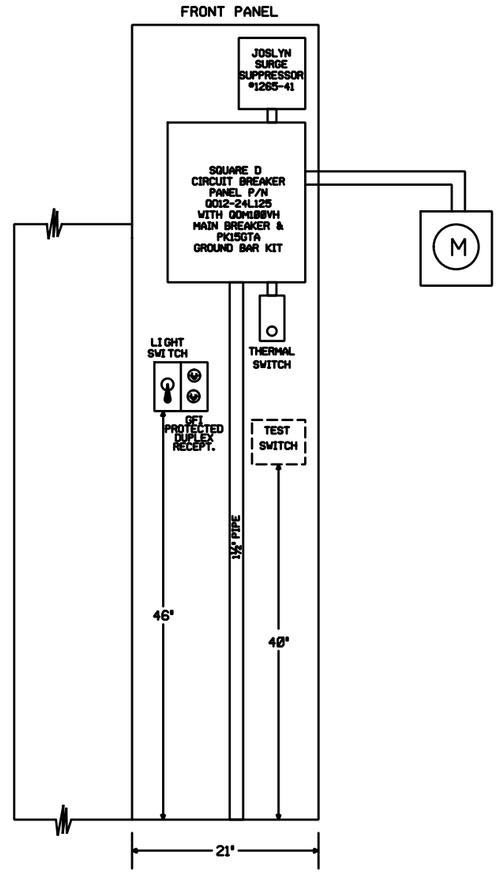
HIGHWAY CROSSING
HARMON HIGHWAY CROSSING ANALYZER
CIRCUITS

ISSUE DATE: 09-16-98		3515-0011
REV. 3	Ø6-24-25	SHEET 7
1	05-05-99	

CXCG1.TØC

HARMON INDUSTRIES, INC.





PROGRESS RAIL SERVICES
A Caterpillar Company

X-X-X = OUT
O-O-O = IN

DATE: 06-24-25
CSX#: PA2021009
PRS/AMJ/SAF

CONRAIL

EAST SIXTH STREET ERIE, PENNSYLVANIA

HIGHWAY CROSSING
FRONT AND LEFT WALL LAYOUT

ISSUE DATE: 09-16-98		3515-0011
DRN REV. 3	06-24-25	SHEET 8
CHK 1	05-05-99	

2TKHXPCP.T0C

REV	DATE	CHKD BY
1	12-22-98	HBET
2	11-1-95	HEI

C&S CAD

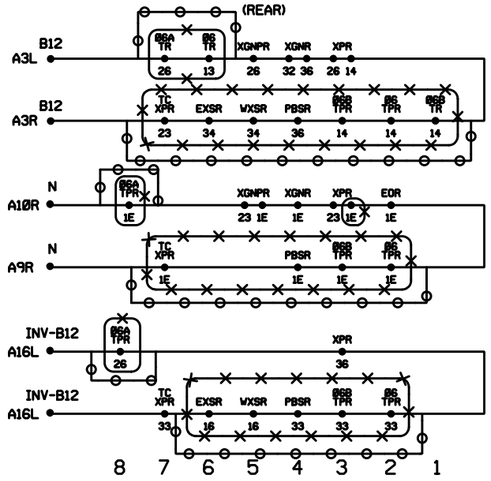
RELAY FUNCTIONS

POR	EOR	XPR	XGNR	XGNPR	Ø6 TR	Ø6A TR
12- EBX	12- EX	12- XGN	HDB12- EBX	22-NGC	B12-	B12- XS
15- ENX	15- EX	15- XX	HDB15- EBX	25-GC	F13- Ø6TP	F13- Ø6TP
22-EBX	32-EX	22-NGC	32- B12		F15-	F15- Ø6BTP
25-ENX	35-EX	25-GC	35- XGNP		B22-	B22-
32-EBX		32-			B24-	B24-
35-ENX		35- XPK			F25-	F25- Ø6ATP
					B32-	B32-
					F33-	F33- TCXP
					F35-	F35- PBS

TC XPR	Ø6A TPR	Ø6B TR	Ø6 TPR	Ø6B TPR	PBSR
12- TC1	12-	B12-	12- Ø6TP	12- Ø6BTP	12-
15- TC2	15-	F13- Ø6BTP	15- XS	15- XS	15-
22- TXP	22-	F15-	22-	22-	22-
25-	25- XTK	B22-	25- TCXP	25- TCXP	25- TCXP
32- TCXPK	32-	B24-	32- Ø6TPK	32- Ø6BTPK	32- PBSK
35-	35-	F25-	35- PBS	35- PBS	35- PBS
		B32-			
		F33-			
		F35-			

WXSR	EXSR
12- TCXP	12- TCXP
15- WXSK	15- EXSK
22- WXS	22- EXS
25- EXS	25- WXS
32- PBS	32- PBS
35- W-SRT-XR	35- E-SRT-XR

RELAY ENERGY LOOPS

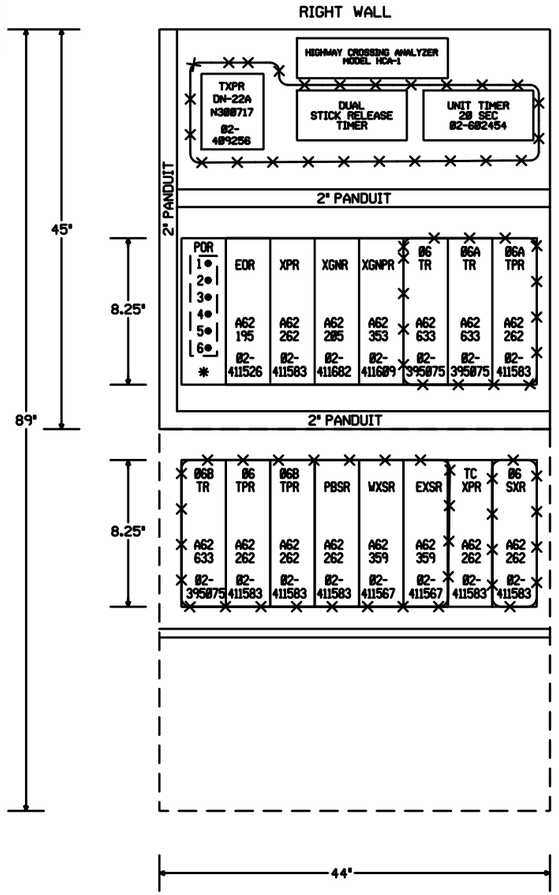


*= POR RELAY P/N A62-407 02-411542
POR RECTIFIER P/N A53-541 02-390142 MOUNTED ON REAR OF RELAY.

RELAYS TO BE MOUNTED ON SWING-OUT RACK

RELAYS

A62-407 = 02-411542 B1-PT, 6FB-HD, 100:/100:
A62-195 = 02-411526 B1, FLASHER 4FB-HD
A62-205 = 02-411682 B1, 2FB, 2B-HD, 210>
A62-353 = 02-411609 B1SR (3 SEC.), 2FB, 460:
A62-262 = 02-411583 B1N, 6FB, 500:
A62-633 = 02-395075 B1, 5F48, 0.5>
A62-359 = 02-411567 B1SR, 6FB, 194>



REV	DATE	CKD BY
1	7-13-94	HEI
2	11-1-95	HEI

C&S CAD

PROGRESS RAIL SERVICES
A Caterpillar Company
DATE:06-24-25
CSX#:PA2021009
PRS/AMJ/SAF
X—X = OUT
O—O = IN

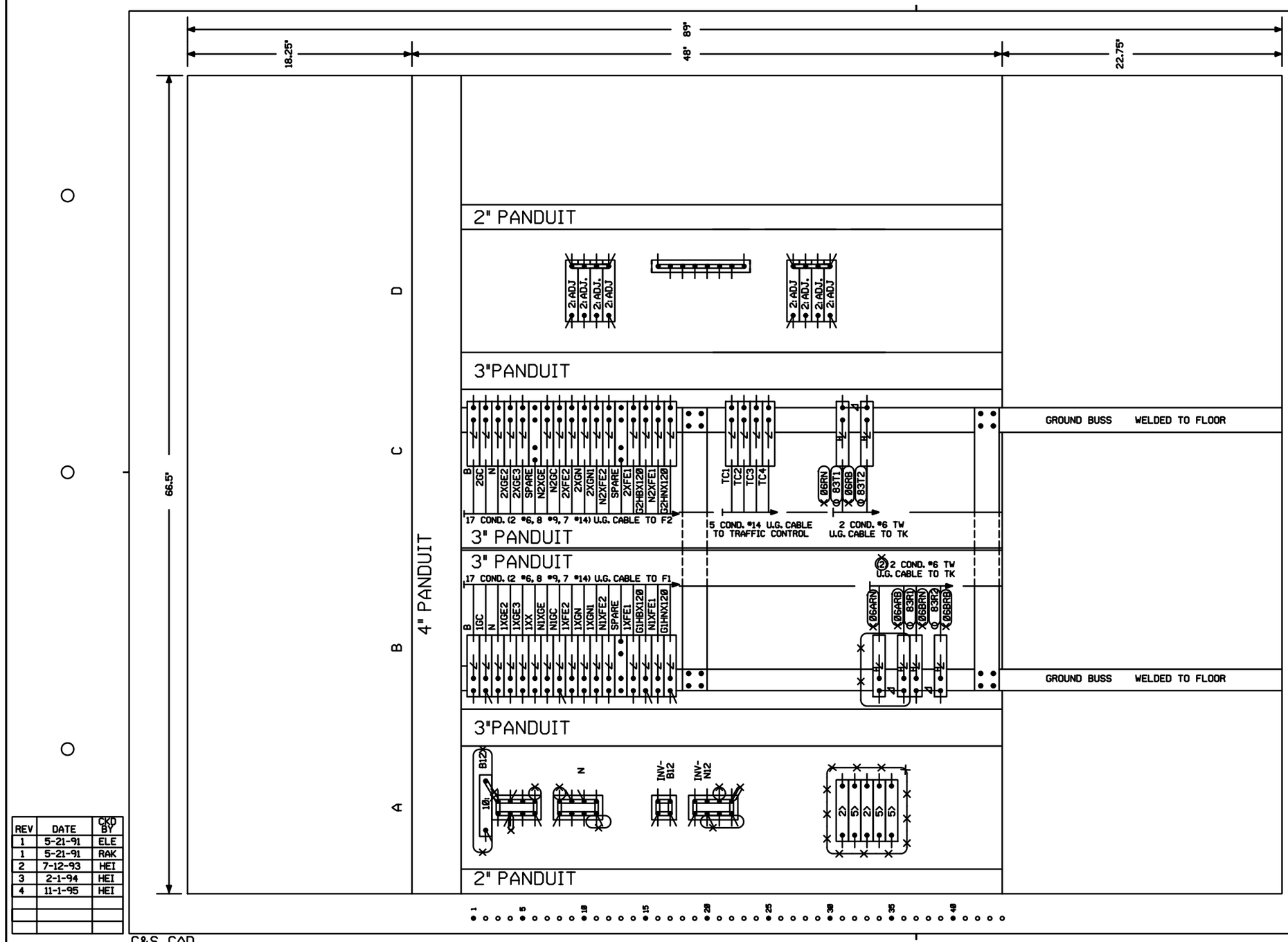
CONRAIL

EAST SIXTH STREET ERIE, PENNSYLVANIA

HIGHWAY CROSSING
RIGHT SIDE OF HOUSE
RELAY RACK & FUNCTIONS

ISSUE DATE: 09-16-98		3515-0011
DRN SCH CHK REV. 3	06-24-25	SHEET 9
2	05-17-02	

CXCG1.T0C



NOTES:
1. ADJ.
2. ADJ.
10. FIXED
500. FIXED

02-425799 - RESISTOR
02-425807 - RESISTOR
02-423588 - RESISTOR
02-423711 - RESISTOR
02-036133 - 4 POST PORCELAIN BASE
02-050753 - TERMINAL BLOCK FOR EQUALIZER
02-048757 - TERMINAL STRIP
02-150009 - BUSS LINK
02-286662 - TEST LINK ASSEMBLY
02-023316 - ARRESTOR, HEAVY DUTY
02-025565 - ARRESTOR
02-197950 - EQUALIZER
GROUND CONNECTION TO BE IN ACCORDANCE WITH STANDARD PLAN CS-9001-A
= TEMPORARY JUMPER TO BE REMOVED WHEN GATES ARE ADDED.

= OUT
= IN

PROGRESS RAIL SERVICES
A Caterpillar Company

DATE.06-24-25
CSX0.PA2021089
PRS/AMJ/SAF

REV	DATE	CKD BY
1	5-21-91	ELE
1	5-21-91	RAK
2	7-12-93	HEI
3	2-1-94	HEI
4	11-1-95	HEI

C&S CAD

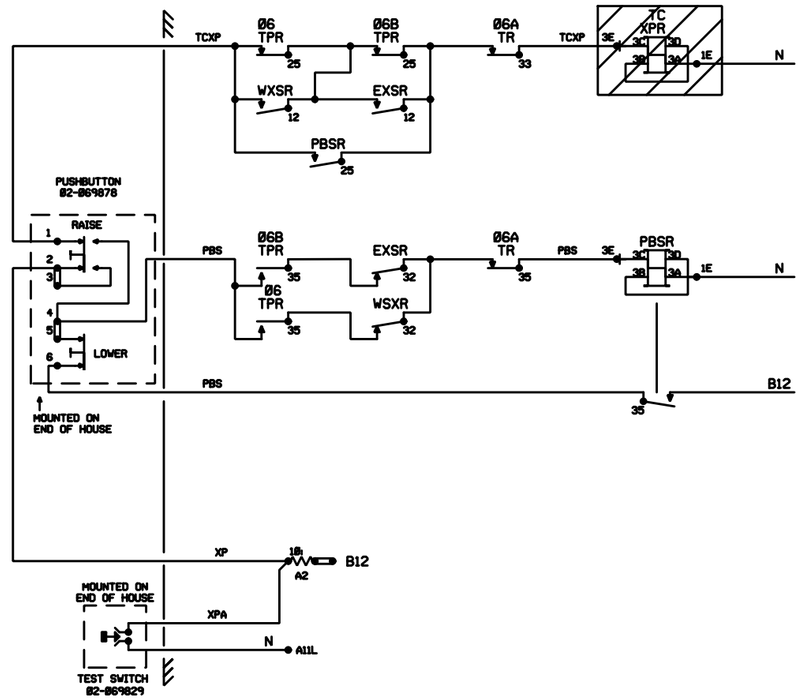
CONRAIL

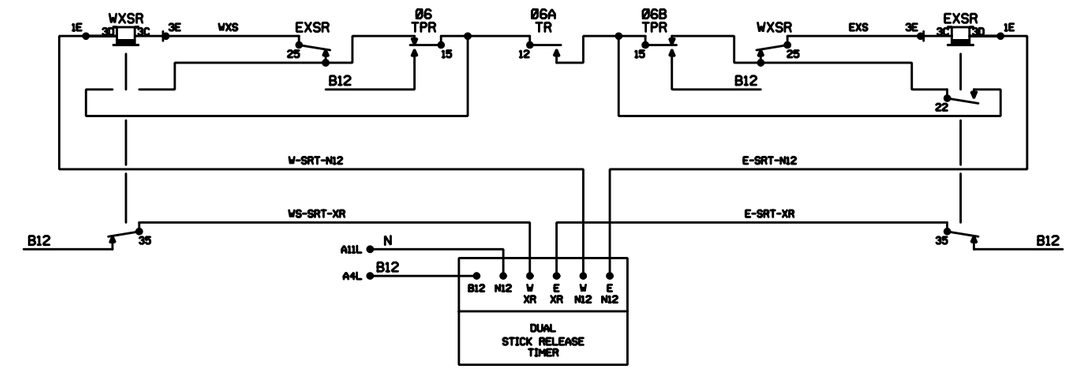
EAST SIXTH STREET ERIE, PENNSYLVANIA

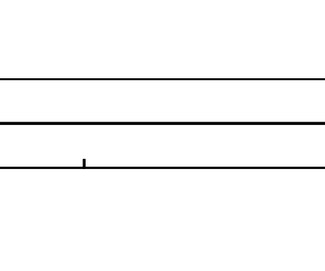
HIGHWAY CROSSING
TERMINAL BOARD ARRANGEMENT

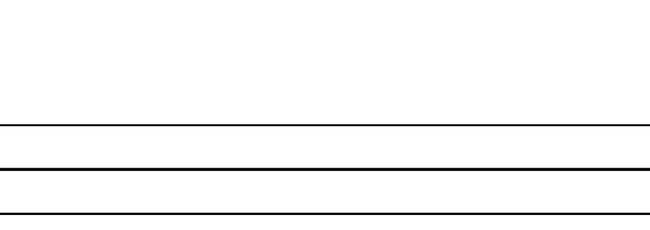
ISSUE DATE: 09-16-98		3515-0011
REV. 3 06-24-25		SHEET 10
2 05-17-02		

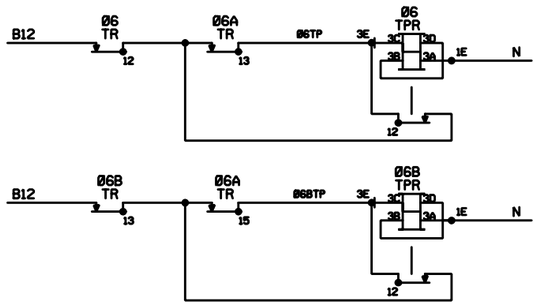
CXCG1.T0C











ALL ELSE OUT
THIS SHEET IS VOID
WHEN AS IN SERVICED.

PROGRESS RAIL SERVICES
A Caterpillar Company

DATE:06-24-25
CSX#:PA2021009
PRS/AMJ/SAF

REV	DATE	CKD BY
1	7-13-94	HEI
2	11-1-95	HEI

C&S CAD

CONRAIL

EAST SIXTH STREET ERIE, PENNSYLVANIA

HIGHWAY CROSSING
CONTROL CIRCUITS

ISSUE DATE: 09-16-98		3515-0011
DSR SAV JWR REV. 2	05-17-02	SHEET 4

CXCG1.T0C

INDEX

CONTENTS

SH. NO.		REVISION NO. 1	2	3	4	5	6	7	8	9
I01	INDEX AND REVISIONS	X	⌀							
S01	TRACK AND SIGNAL PLAN	X	⌀							
E01	POWER DISTRIBUTION	X	⌀							
E02	ELECTROLOGIXS XP4 MODULE LAYOUT		/							
C01	XP4 CROSSING DETECTION AND I/O CIRCUITS		/							
C02	XP4 SETUP INFORMATION		/							
C03	CROSSING WARNING DEVICE CIRCUITRY	X	⌀							
C04	HAWK RECORDER CIRCUITS	X	⌀							
C05	HAWK RECORDER PROGRAM	X	⌀							

/ = PLANS SENT TO FIELD (DISTRIBUTED)

X = PLANS AS-IN-SERVICED (UP TO DATE)

C01	CROSSING DETECTION CIRCUITRY	X								
C02	DETECTION DEVICE PROGRAM	X								

= NOTE

PROGRESS RAIL SERVICES
A Caterpillar Company
= OUT
= IN
DATE: 06-24-25
CSX#: PA2021009
PRS/AMJ/SAF

REVISIONS

REV. NO.	PROJECT NO.	DESIGN DATE	IN SERVICE DATE	REVISION DATE
1	PA19990T4A PA19990T4B PA19990T5A PA2002030 PA2002031 PA2002032	-----	-----	06-14-05
2	PA2021009	06-24-25		

TO BE COMPLETED ON A.I.S.

CP-2 TO CP-97

EAST 8TH STREET S24 337C MP. QDY-1.29

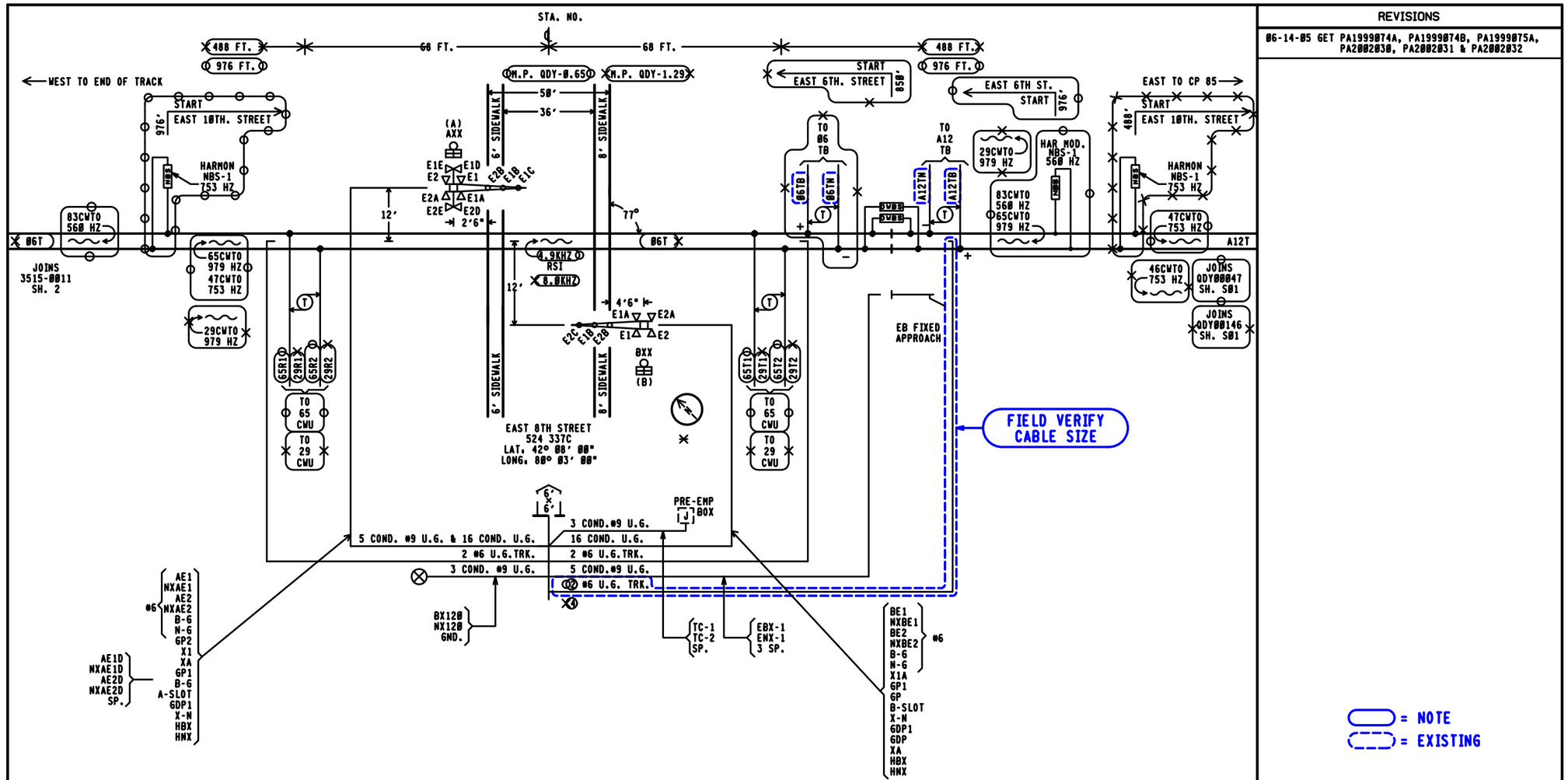
CSX TRANSPORTATION
RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS

EAST 8TH STREET 524337C
ERIE YARD INDUSTRIAL TRACK
INDEX AND REVISIONS
ERIE, PA MP. QDY-0.65

DESIGNED	DIGITIZED	CHECKED	DATE
GET/WPB	GET/CSM	GET/FAP	05-17-02

DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
3515-0013	1	1-1	QDY00065	S01	QDY00065	I01

REV. 10-08-01 QDY00129 QDY00129 PMD3R.I01



APROACH LENGTHS TABLE	WESTWARD EASTBOUND TRACK 1	EASTWARD WESTBOUND TRACK 1	
DC, AFO, TYPE C, MOTION, CWT, OR OTHER	CWT	CWT	MOT
STANDARD MINIMUM WARNING TIME	25	25	20
ROADWAY GATE TIME	5	5	
CLEARANCE TIME	0	0	
DOT TRAFFIC LIGHT SIMULTANEOUS PREEMPT TIME *	0	0	
DESIGNED WARNING TIME FOR TRAINS AT TIME TABLE SPEED	30	30	25
DOT TRAFFIC LIGHT ADVANCE PREEMPT TIME *	20	20	0
CONTROL EQUIPMENT DECISION TIME	4	4	2
DESIGNED DETECTION TIME FOR TRAINS AT TIME TABLE SPEED	54	54	27
TIME TABLE MAXIMUM TRAIN SPEED IN MILES PER HOUR	10	10	
BUFFER SPEED IN MILES PER HOUR	2.5	2.5	
TOTAL WARNING SYSTEM DESIGN SPEED	12.5	12.5	
APPROACH DISTANCE TO ISLAND EDGE IN FEET	976'	976'	488
HALF WIDTH OF ISLAND IN FEET	68'	68'	
APPROXIMATE MILE POSTS FOR APPROACH CIRCUIT	0.85	0.45	
	1.39	1.19	

*AUTHORIZING AGENCY: PENN DOT
*DATE OF REQUIREMENT: 05-21-20
*AMOUNT OF TIME (SEC.): 20 SEC

NOTE: 1. 20 WATT BULBS ON GATE ARMS.
ALL OTHERS TO BE 25 WATT BULBS.
2. GATE LENGTH (A) 38' (B) 35'
3. * = LOCATION OF HOUSE
4. (N) = APPROXIMATE COMPASS NORTH.
5. THE TRANSMITTER LEADS FOR MOTION OR PREDICTOR EQUIPMENT SHOULD BE CONNECTED ON THE BUNGALOW OR SHORT LEAD SIDE OF THE CROSSING.
6. ISLAND TRACK LEADS SHOULD BE CONNECTED 50 FEET FROM ROAD EDGE BUT ON NARROW ROADS (20' OR LESS) ISLAND LENGTH SHALL BE 120 FEET.
7. WARNING SYSTEM APPROACH CIRCUIT DISTANCES ARE TO BE MEASURED FROM THE ISLAND TRACK CONNECTIONS.

REVISIONS

06-14-05 GET PA1999074A, PA1999074B, PA1999075A, PA2002030, PA2002031 & PA2002032

= NOTE
= EXISTING

PROGRESS RAIL SERVICES
A Caterpillar Company
= OUT
= IN
DATE: 06-24-25
CSX#: PA2021009
PRS/AMJ/SAF

CP-2 TO CP-97

EAST 8TH STREET 524 337C MP. QDY-1.29

CSX TRANSPORTATION
RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS

EAST 8TH STREET 524337C

ERIE YARD INDUSTRIAL TRACK
TRACK AND SIGNAL PLAN
ERIE, PA MP. QDY-0.65

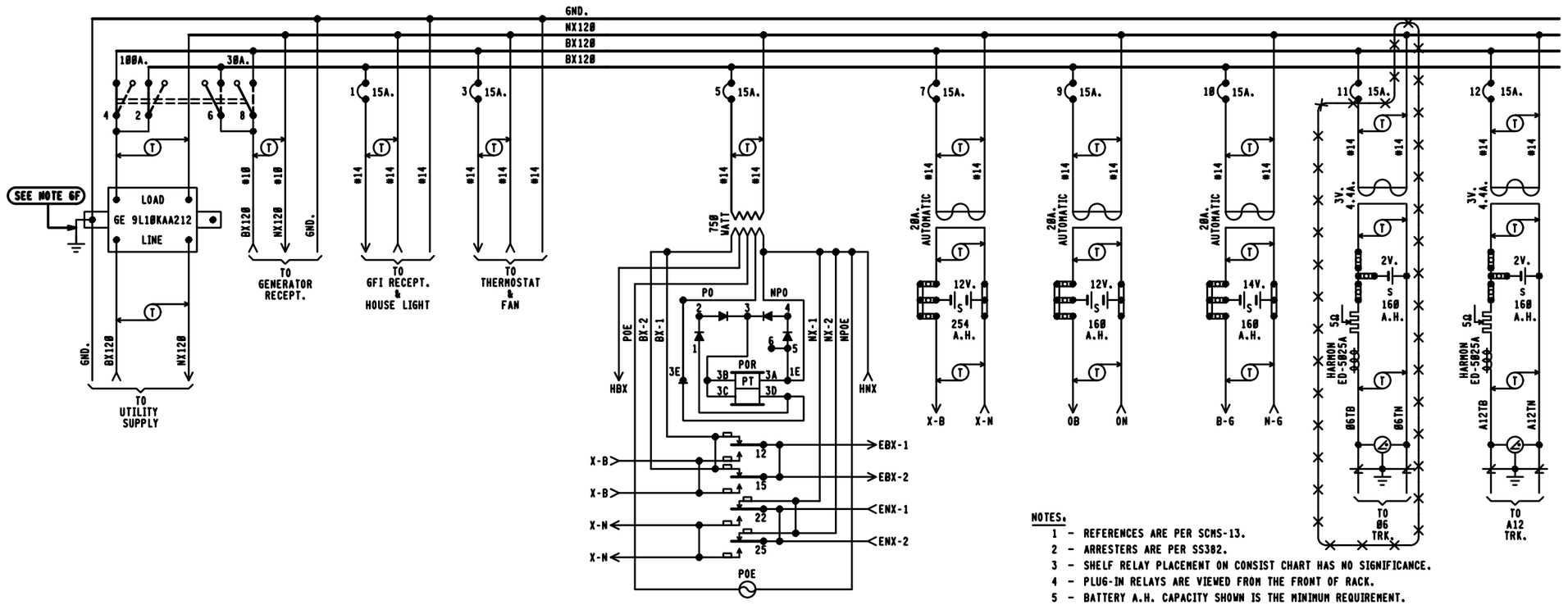
DESIGNED	DIGITIZED	CHECKED	DATE
GET/WPB	GET/CSM	GET/FAP	05-17-02

DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
3515-0013	1-1	1-2	QDY00065	E01	QDY00065	S01

REV. 06-05-01 QDY00129 QDY00129 PMD3R.S01

TOP ROW

			PER	XR	XPR	GPR	EOR		POR		
			12 F 15 22 23 F 25 F 32 35 S3 C3Ø	12 FB 15 FB 22 23 25 F 32 35 S3 C3Ø	22 F 25 F S8 C3Ø	12 B 15 B 22 25 32 F 35 B FB S4 C3Ø	12 FB 15 FB 32 FB 35 FB S18 C3Ø		12 FB 15 FB 22 FB 25 FB 32 F 35 S15 C3Ø		



NOTES.

1 - REFERENCES ARE PER SCMS-13.
2 - ARRESTERS ARE PER SS382.
3 - SHELF RELAY PLACEMENT ON CONSIST CHART HAS NO SIGNIFICANCE.
4 - PLUG-IN RELAYS ARE VIEWED FROM THE FRONT OF RACK.
5 - BATTERY A.H. CAPACITY SHOWN IS THE MINIMUM REQUIREMENT.
6 - WIRING
  A - FEED TO ALL BUSSES, LIGHT CIRCUITS,MOTOR CIRCUITS TO BE #1Ø FLEX.
  B - 12Ø-VOLT FEED FROM ENTRANCE TO POWER BUSS TO BE #1Ø FLEX.
  C - ALL TRACK WIRES TO BE #1Ø FLEX.
  D - ALL OTHERS TO BE #16 FLEX UNLESS NOTED.
  E - BATTERY OUTPUTS TO BE #6 TWISTED PAIR PER SS36Ø.
  F - GROUND WIRE NOT NECESSARY WHEN GE ARRESTER IS MOUNTED ON GROUND PLANE OR METAL ENCLOSURE AFFIXED DIRECTLY TO BUNGALOW METALLIC STRUCTURAL MEMBER.
7 - CIRCUIT INTERRUPTERS 2 & 4 ARE MECHANICALLY INTERLOCKED WITH CIRCUIT INTERRUPTERS 6 & 8.

6'X 6' RELAY HOUSE W/FARADAY SHIELD

CP-2 TO CP-97

EAST 8TH STREET S24 337C MP. QDY-1.29

= OUT
= IN

PROGRESS RAIL SERVICES
A Caterpillar Company

DATE.Ø6-24-25
CSX#.PA2Ø21ØØ9
PRS/AMJ/SAF

REVISIONS
Ø6-14-Ø5 GET PA1999Ø74A, PA1999Ø74B, PA1999Ø75A, PA2ØØ2Ø3Ø, PA2ØØ2Ø31 & PA2ØØ2Ø32

CSX TRANSPORTATION
RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS

EAST 8TH STREET 524337C

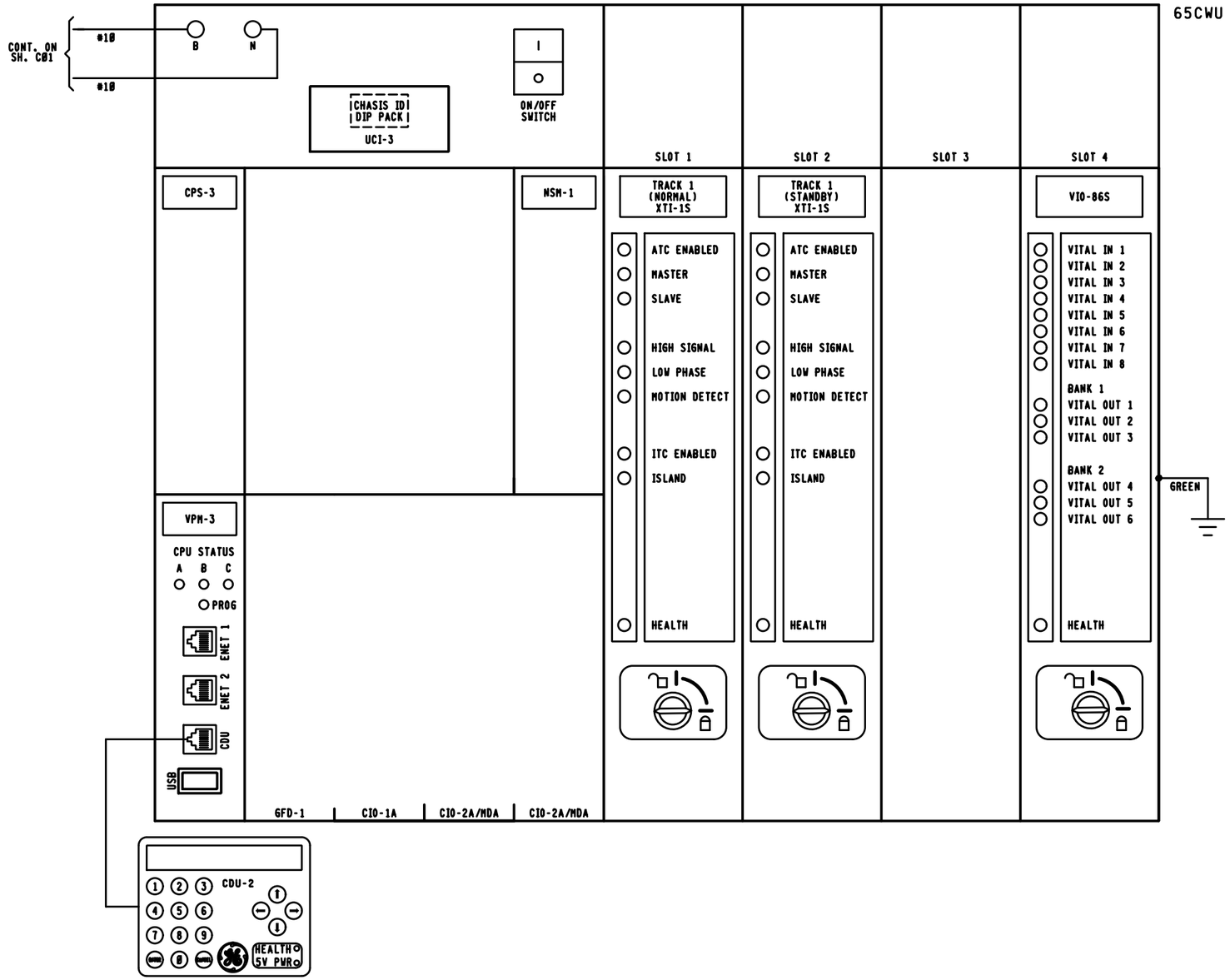
ERIE YARD INDUSTRIAL TRACK
POWER DISTRIBUTION
ERIE, PA MP. QDY-Ø.65

DESIGNED	DIGITIZED	CHECKED	DATE
GET/WPB	GET/CSM	GET/FAP	Ø5-17-Ø2

DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
3515-0013	1-2	1-3	QDYØØØ65	CØ1	QDYØØ129	EØ1

REV. Ø8-13-Ø1 QDYØØ129 EØ2 QDYØØ129 PMD3R.EØ1

65CWU



6'X 6' RELAY HOUSE W/FARADAY SHIELD

PROGRESS RAIL SERVICES
A Caterpillar Company
NEW WORK
DATE.06-24-25
CSX©.PA2021089
PRS/AMJ/SAF

REVISIONS

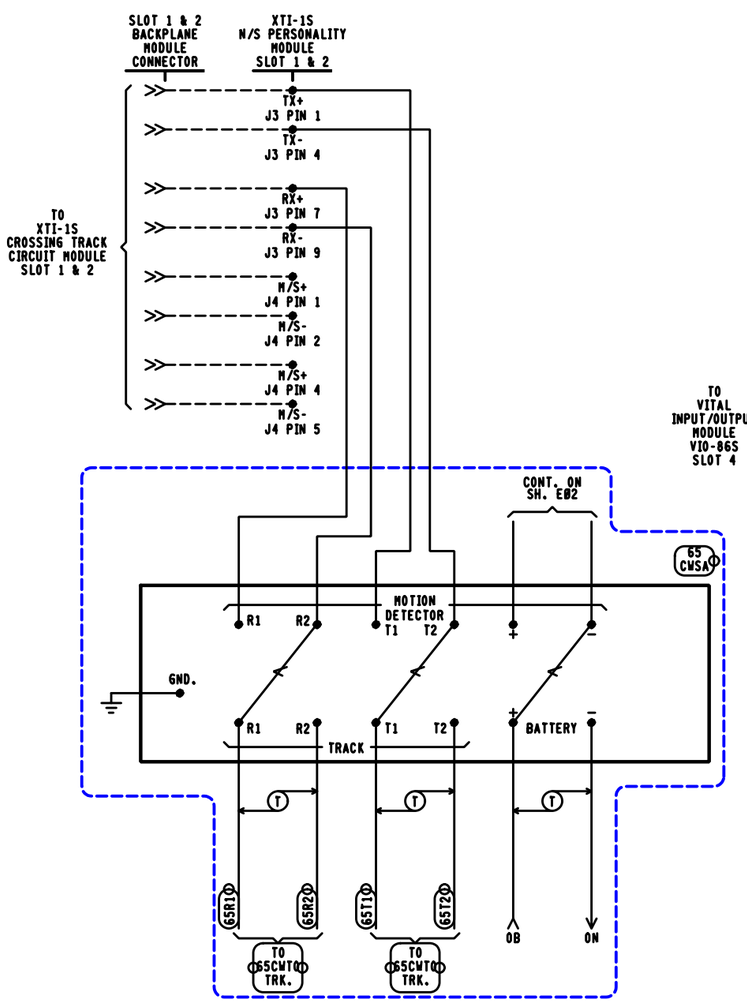
CSX TRANSPORTATION
RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS

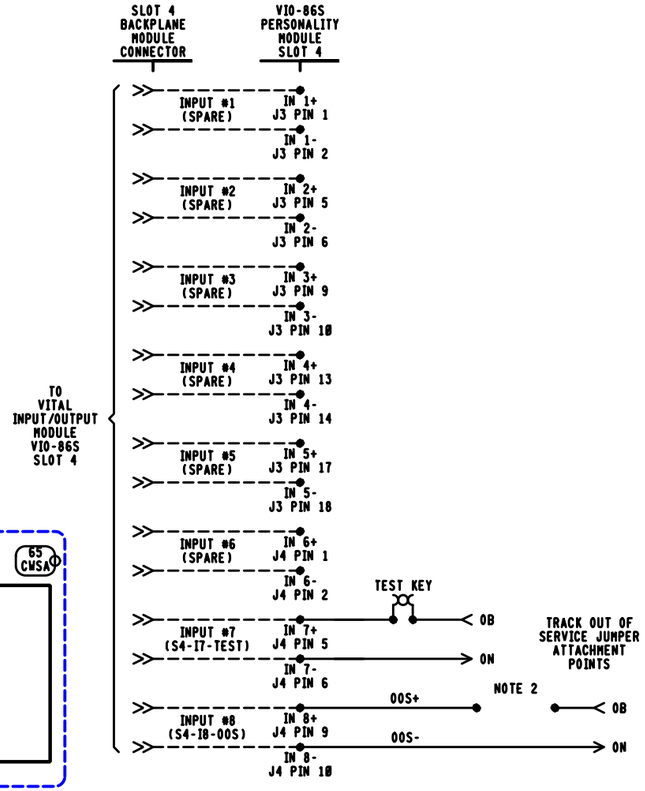
EAST 8TH STREET 524337C

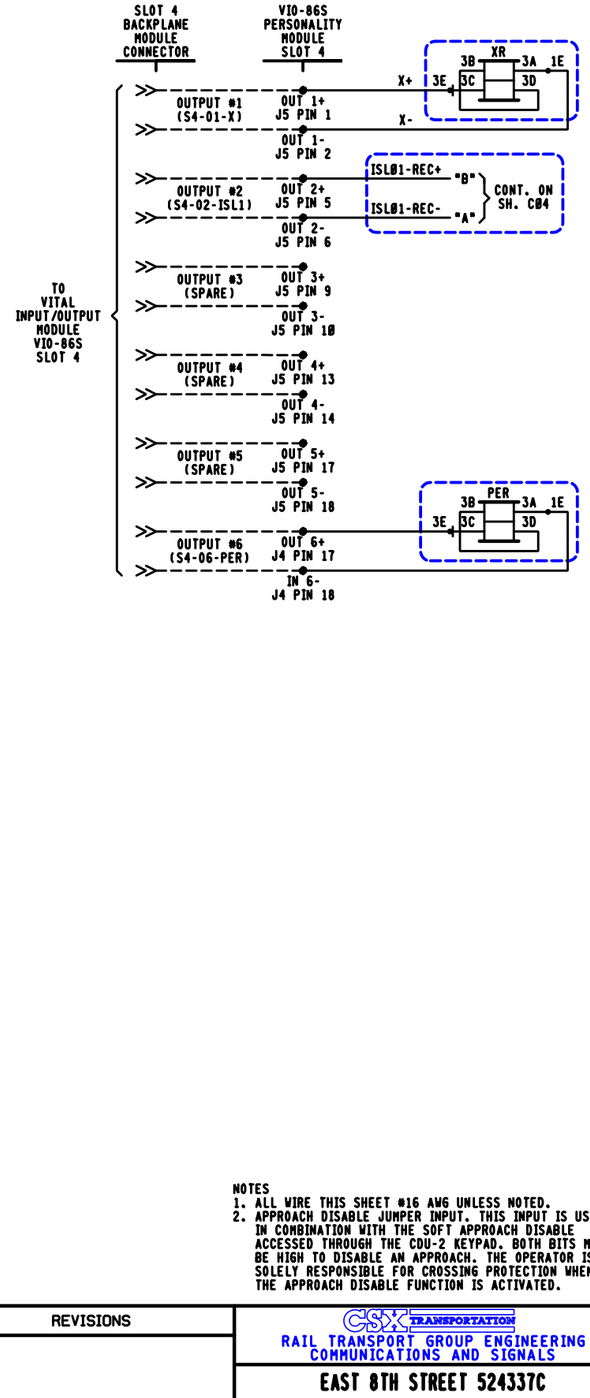
ERIE YARD INDUSTRIAL TRACK
ELECTROLOGIXS XP4 MODULE LAYOUT
ERIE, PA MP. QDY-0.65

DESIGNED	DIGITIZED	CHECKED	DATE
PRS/AMJ	PRS/AMJ	PRS/SAF	06-24-25

DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
-----	-----	-----	QDY00065	C01	QDY00065	E02







SLOT 4 I/O	
INPUT 1	(SPARE)
INPUT 2	(SPARE)
INPUT 3	(SPARE)
INPUT 4	(SPARE)
INPUT 5	(SPARE)
INPUT 6	(SPARE)
INPUT 7	CROSSING ACTIVATION TEST
INPUT 8	OUT OF SERVICE JUMPER INPUT (OOS)
OUTPUT 1	X OUTPUT
OUTPUT 2	ISL01 OUTPUT
OUTPUT 3	(SPARE)
OUTPUT 4	(SPARE)
OUTPUT 5	(SPARE)
OUTPUT 6	TRAFFIC SIGNAL PREEMPTION OUTPUT

NOTES
1. ALL WIRE THIS SHEET #16 AWG UNLESS NOTED.
2. APPROACH DISABLE JUMPER INPUT. THIS INPUT IS USED IN COMBINATION WITH THE SOFT APPROACH DISABLE ACCESSED THROUGH THE CDU-2 KEYPAD. BOTH BITS MUST BE HIGH TO DISABLE AN APPROACH. THE OPERATOR IS SOLELY RESPONSIBLE FOR CROSSING PROTECTION WHEN THE APPROACH DISABLE FUNCTION IS ACTIVATED.

= EXISTING

PROGRESS RAIL SERVICES
A Caterpillar Company
NEW WORK
DATE: 06-24-25
CSX#: PA2021089
PRS/AMJ/SAF
= OUT
= IN

REVISIONS

CSX TRANSPORTATION
RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS

EAST 8TH STREET 524337C

ERIE YARD INDUSTRIAL TRACK
XP4 CROSSING DETECTION AND I/O CIRCUITS
ERIE, PA MP. QDY-0.65

DESIGNED	DIGITIZED	CHECKED	DATE
PRS/AMJ	PRS/AMJ	PRS/SAF	06-24-25

DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
-----	-----	-----	QDY00065	C02	QDY00065	C01 A

SITE SPECIFIC MDR DESCRIPTIONS AND SETTINGS			
NAME		MDR1	MDR2
FUNCTION		XR	PER
WARNING TIME		30	50
CW/MD		CW	CW
AP TIME(PREEMPT)		20	NA
CWE-WT		80	80
AUX RECOVERY DELAY		NA	NA
TRACK		TK 1	TK 1
TRACK ASSIGNED		ASSIGNED	ASSIGNED
OFFSET DISTANCE		0'	0'
MD RESTART		0*	0*
SUDDEN SHUNT ZONE		0*	0*
POSITIVE START	PSEN	DISABLE	DISABLE
	PSRX	NA	NA
	PST	NA	NA
POST JOINT DETECT	PJEN	ENABLE	ENABLE
	PJRX	15	15
	PJDT	15	15
CLEAR JOINT LOS	CJ-LOS MODE	STANDARD	STANDARD
	CJ-LOS RX	15	15
	CJ-LOS TIME	99	99

BASIC TRACK SETUP	
	TRACK 1
FREQUENCY	979 HZ
MASTER/SLAVE	MASTER
RX ADJUST	100 *
TCA	*
DIRECTION MODE	BI
LIA	*
ADVANCED APPROACH	*
NBS COMP RX	*
TRK ISLAND ASSIGN	ISL1
APPROACH LENGTH	976'
AUTO RX	ENABLE

ADVANCED TRACK SETUP		
		TRACK 1
MOTION DET TIMER	MDEN	DISABLE
	MDTT	10 MIN
FALSE SHUNT	FSEN	DISABLE
	FSRX	NA
	FST	NA
APPROACH RELEASE	AREN	DISABLE
	ARRX	NA
	ART	NA
LOS TIME		16 SEC
IJ-LOS TIME		5 SEC
NRML*SHRT*VRYSHRT		*

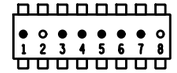
ISLAND SETUP	
	TRACK 1
ENABLE/DISABLE	ENABLE
FREQUENCY	4.9 KHZ
LOSS OF SHUNT	2 SEC.
FAULT DELAY	2

VPM3 ETHERNET SETUP	
	IP ADDRESS
ETHERNET PORT 1 (TOP)	192.168.0.11
ETHERNET PORT 2 (BOTTOM)	192.168.1.12

* = FIELD TO PROVIDE ON A.I.S.

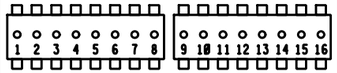
APPLICATION SOFTWARE INFORMATION	
NAME	524337C_0.65
REV.	1.0
CHECKSUM	XXXX *
CRC	XXXX *
CH. I.D.	65

CHASSIS ID DIP SHUNTS
LOCATED ON BACKPLANE
UNDERNEATH UCI-3 MODULE



○ = TAB INTACT (MADE)
● = TAB PUNCHED OUT (BROKEN)

VITAL SELECTION DIP SHUNTS
LOCATED INSIDE UCI-3 MODULE
UNDERNEATH EPROM



○ = TAB INTACT (MADE)
● = TAB PUNCHED OUT (BROKEN)

VITAL SELECTION DIP SHUNTS		
#	NAME	STATE
1	NA	INTACT (NOT USED)
2	NA	INTACT (NOT USED)
3	NA	INTACT (NOT USED)
4	NA	INTACT (NOT USED)
5	NA	INTACT (NOT USED)
6	NA	INTACT (NOT USED)
7	NA	INTACT (NOT USED)
8	NA	INTACT (NOT USED)
9	NA	INTACT (NOT USED)
10	NA	INTACT (NOT USED)
11	NA	INTACT (NOT USED)
12	NA	INTACT (NOT USED)
13	NA	INTACT (NOT USED)
14	NA	INTACT (NOT USED)
15	NA	INTACT (NOT USED)
16	NA	INTACT (NOT USED)

( ) = NOTE

PROGRESS RAIL SERVICES
A Caterpillar Company
NEW WORK
DATE: 06-24-25
CSX#: PA2021009
PRS/AMJ/SAF

~~X~~ = OUT

NOTES:
= FIELD ADJUSTMENT
NA = NOT APPLICABLE

REVISIONS

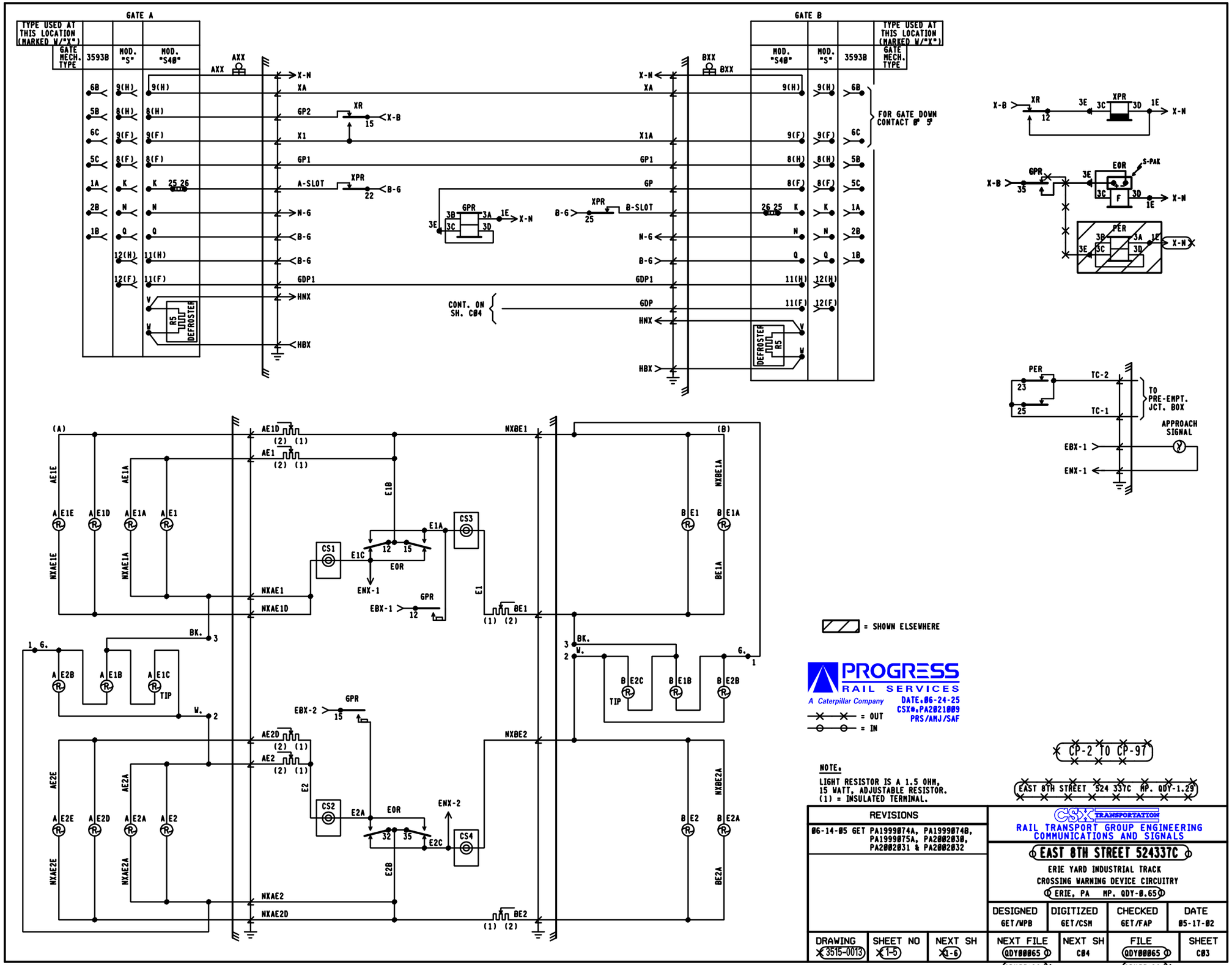
CSX TRANSPORTATION
RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS

EAST 8TH STREET 524337C

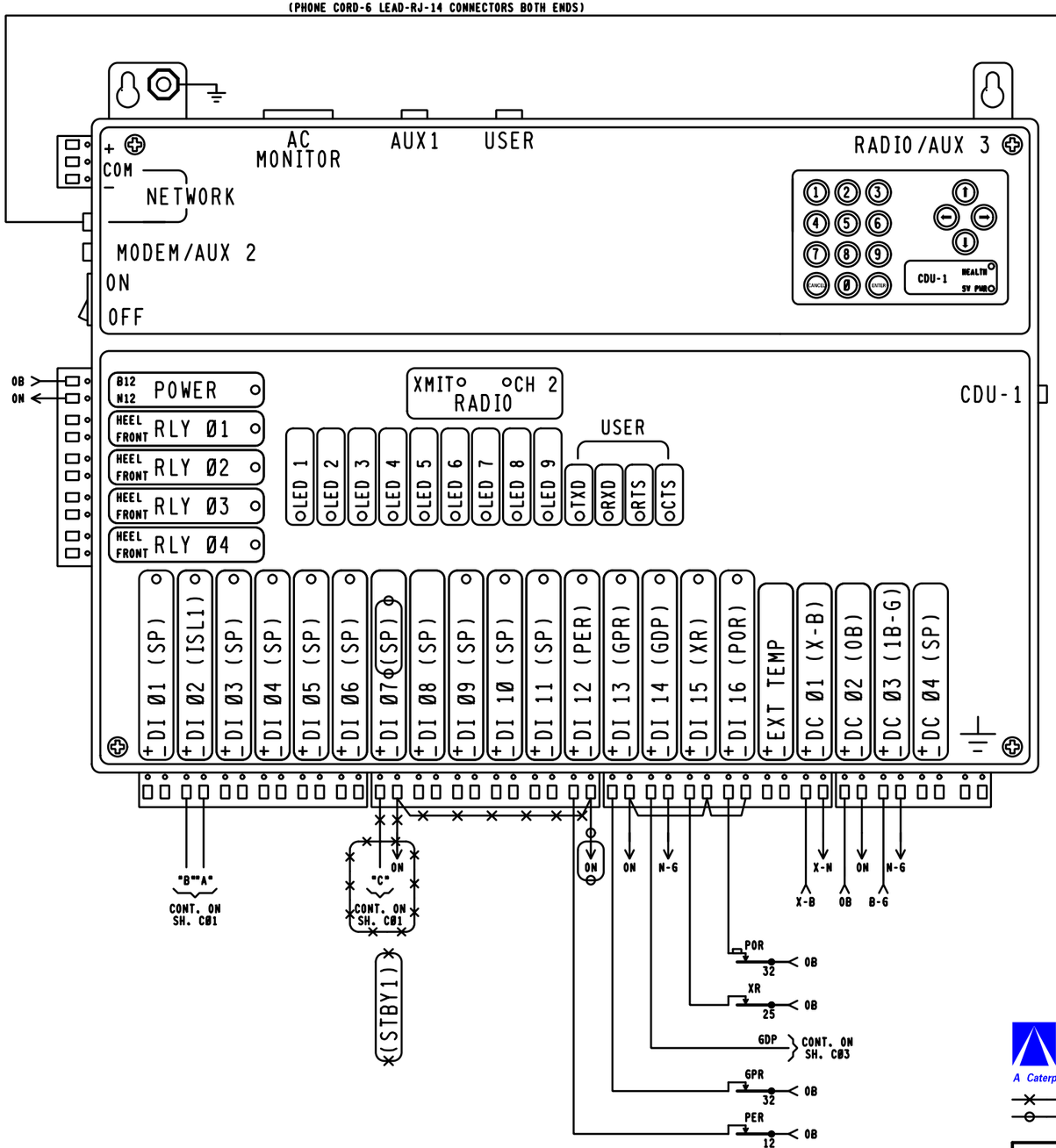
ERIE YARD INDUSTRIAL TRACK
XP4 SETUP INFORMATION
ERIE, PA MP. QDY-0.65

DESIGNED	DIGITIZED	CHECKED	DATE
PRS/AMJ	PRS/AMJ	PRS/SAF	06-24-25

DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
-----	-----	-----	QDY0065	C03	QDY0065	C02 (A)


GATE A
TYPE USED AT THIS LOCATION (MARKED W/"*")
GATE MECH. TYPE
3593B
MOD. "S"
MOD. "S40"
AXX
X-N
XA
GP2
XR
15
X-B
X1
GP1
A-SLOT
XPR
22
B-G
N-G
B-G
B-G
GDP1
HNX
HBX
6B
5B
6C
5C
1A
2B
1B
9(H)
8(H)
9(F)
8(F)
K
25 26
N
Q
12(H)
11(H)
12(F)
11(F)
V
W
R5
DEFROSTER
6PR
3B
3A
1E
3E
3C
3D
X-N
CONT. ON SH. C04
GATE B
BXX
X-N
XA
X1A
GP1
GP
B-SLOT
XPR
B-G
25
N-G
B-G
GDP1
GDP
HNX
HBX
MOD. "S40"
MOD. "S"
3593B
TYPE USED AT THIS LOCATION (MARKED W/"X")
GATE MECH. TYPE
9(H)
9(F)
8(H)
8(F)
26 25
K
N
Q
11(H)
11(F)
12(H)
12(F)
V
W
DEFROSTER
R5
6B
6C
5B
5C
1A
2B
1B
FOR GATE DOWN CONTACT 8 & 9
X-B
XR
12
3E
3C
XPR
3D
1E
X-N
GPR
35
EOR
S-PAK
F
PER
23
25
TC-2
TC-1
TO PRE-EMPT. JCT. BOX
APPROACH SIGNAL
EBX-1
ENX-1
(A)
AE1D
(2) (1)
AE1
NXBE1
(B)
AE1E
AE1A
E1B
NXBE1A
A E1E
A E1D
A E1A
A E1
CS3
CS1
E1C
12
15
EOR
E1A
ENX-1
EBX-1
6PR
12
NXAE1E
NXAE1A
NXAE1
NXAE1D
E1
BE1
(1) (2)
B E1
B E1A
BE1A
BK.
3
1
G.
A E2B
A E1B
A E1C
TIP
W.
2
3
BK.
W.
2
G.
1
B E2C
B E1B
B E2B
TIP
EBX-2
6PR
15
AE2D
(2) (1)
AE2
(2) (1)
NXBE2
AE2E
AE2A
E2
CS2
E2A
EOR
32
35
E2C
ENX-2
CS4
A E2E
A E2D
A E2A
A E2
NXAE2E
NXAE2A
E2B
NXAE2
NXAE2D
BE2
(1) (2)
B E2
B E2A
NXBE2A
BE2A
= SHOWN ELSEWHERE
= OUT
= IN
NOTE.
LIGHT RESISTOR IS A 1.5 OHM, 15 WATT, ADJUSTABLE RESISTOR.
(1) = INSULATED TERMINAL.
CP-2 TO CP-97
EAST 8TH STREET S24 337C MP. QDY-1.29
PROGRESS RAIL SERVICES
A Caterpillar Company
DATE:06-24-25
CSX#:PA2021089
PRS/AMJ/SAF
REVISIONS
06-14-05 GET PA1999074A, PA1999074B, PA1999075A, PA2002030, PA2002031 & PA2002032
CSX TRANSPORTATION
RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS
EAST 8TH STREET 524337C
ERIE YARD INDUSTRIAL TRACK
CROSSING WARNING DEVICE CIRCUITRY
ERIE, PA MP. QDY-0.65
DESIGNED GET/WPB
DIGITIZED GET/CSM
CHECKED GET/FAP
DATE 05-17-02
DRAWING 3515-0013
SHEET NO 1-5
NEXT SH 1-6
NEXT FILE QDY00065 QDY00129
NEXT SH C04
FILE QDY00065 QDY00129
SHEET C03

(PHONE CORD-6 LEAD-RJ-14 CONNECTORS BOTH ENDS)



PROGRESS RAIL SERVICES
A Caterpillar Company

DATE: Ø6-24-25
CSX#.PA2Ø21Ø89
PRS/AMJ/SAF

= OUT
= IN

CP-2 TO CP-97

EAST 8TH STREET 524 337C MP. QDY-1.29

REVISIONS
Ø6-14-Ø5 GET PA1999Ø74A, PA1999Ø74B, PA1999Ø75A, PA2ØØ2Ø3Ø, PA2ØØ2Ø31 & PA2ØØ2Ø32

CSX TRANSPORTATION
RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS

EAST 8TH STREET 524337C

ERIE YARD INDUSTRIAL TRACK
HAWK RECORDER CIRCUITS
ERIE, PA MP. QDY-Ø.65

DESIGNED	DIGITIZED	CHECKED	DATE
GET/WPB	GET/CSM	GET/FAP	Ø5-17-Ø2

DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
3515-ØØ13	1-6	1-7	QDY##Ø65	CØ5	QDY##Ø65	CØ4

REV. 1Ø-ØØ-Ø1 QDY##Ø129 QDY##Ø129 PMD3R.CØ3

	DEFAULTS AND/OR STYLE	FIELD RECORD
HAWK EXECUTIVE PROGRAM	VERSION 2.3, COMPILED ON NOV 14, 2001	VERSION ___, COMPILED ON _____ (FIELD TO ENTER)
CSXT USER PROGRAM (IF LOADED)	VERSION X.XXX, COMPILED ON MM-DD-YY	VERSION _____, COMPILED ON _____ (FIELD TO ENTER)
SYSTEM SETTINGS		
DATE & TIME (ENABLE DAYLIGHT SAVINGS TIME = Y (YES)	MM-DD-YY 23% 01:59	n/a
MILE POST	XYZ-789.01	QDY-1.29
SITE NAME	MAIN ST (SR-17,US-1)	EAST 8TH STREET
DOT NUMBER	123456A	524337C

BATTERY INPUTS	DC 01	DC 02	DC-03	DC-04
CHANNEL	1	2	3	4
BATTERY CHANNEL NAMES	X-B BULB BATTERY	OB ELECTRONIC BATTERY	1B-G GATE BATTERY	SPARE
BATTERY CHANNEL I.D.	X-B	OB	1B-G	SP
SAMPLE PERIOD	500 ms	500 ms	500 ms	10,000 ms
RESOLUTION	00.2 V	00.2 V	01.2V	01.2V

DIGITAL INPUTS	DI 01	DI 02	DI 03	DI 04	DI 05
CHANNEL	1	2	3	4	5
NAME		ISLAND TRACK 1			
ID	SP	ISL1	SP	SP	SP
ON NAME		ISL1 UP			
OFF NAME		ISL1 DN			
ON DEBOUNCE TIME	1000 ms	100 ms	1000 ms	1000 ms	1000 ms
OFF DEBOUNCE TIME	1000 ms	100 ms	1000 ms	1000 ms	1000 ms
TOGGLE PERIOD	500 ms	500 ms	500 ms	500 ms	500 ms

DIGITAL INPUTS	DI 06	DI 07	DI 08	DI 09	DI 10
CHANNEL	6	7	8	9	10
NAME					
ID	SP	SP	SP	SP	SP
ON NAME					
OFF NAME					
ON DEBOUNCE TIME	1000 ms	1000 ms	1000 ms	1000 ms	1000 ms
OFF DEBOUNCE TIME	1000 ms	1000 ms	1000 ms	1000 ms	1000 ms
TOGGLE PERIOD	500 ms	500 ms	500 ms	500 ms	500 ms

% HARMON OR SAFETRAN OUTPUT INDICATIONS WILL DICTATE WHETHER PRIMARY UNIT OR STANDBY UNIT HAS THE "ON" NAME.

DI 07
7
STANDBY1
STBY1
STANDBY UNIT
PRIMARY UNIT
100 ms
100 ms
500 ms

DIGITAL INPUTS	DI 11	DI 12	DI 13	DI 14	DI 15	DI 16
CHANNEL	11	12	13	14	15	16
NAME		PER	GPR	GDP	XR	POR
ID	SP	PER	GPR	GDP	XR	POR
ON NAME		PER UP	GATE VERTICAL	GATE HORIZ	XR UP	POR UP
OFF NAME		PER DN	LIGHTS FLASH	NOT HORIZ	XR DN	POR DN
ON DEBOUNCE TIME	1000 ms	100 ms	100 ms	100 ms	100 ms	100 ms
OFF DEBOUNCE TIME	1000 ms	100 ms	100 ms	100 ms	100 ms	100 ms
TOGGLE PERIOD	500 ms	500 ms	500 ms	500 ms	500 ms	500 ms

MODULE-DIGITAL 4 QUAD CURRENT SENSOR SERIAL NUMBER: [_____] (BLANK UNTIL AIS RECEIVED)				
RESOLUTION (AMPS RMS) : [00.1] ARMS				
AUTOMATICALLY ALLOCATED DIGITAL INPUT	DI 17	DI 18	DI 19	DI 20
DIGITAL 4 QUAD CURRENT SENSOR	1	2	3	4
NAME	E1C	E2A	E1A	E2C
ID	E1C	E2A	E1A	E2C
LIT BULB COUNT ON EACH CIRCUIT	6	6	4	4
CURRENT READING IN AMPS AT APPROXIMATE 10.0 VOLTS BULB VOLTAGE	14	14	9	9

CHANNEL	1	2	3	4
NAME	RELAY OUTPUT 01	RELAY OUTPUT 02	RELAY OUTPUT 03	RELAY OUTPUT 04
I.D.	RLY01	RLY02	RLY03	RLY04
ON NAME	ON	ON	ON	ON
OFF NAME	OFF	OFF	OFF	OFF
PULSE DURATION	1000 ms	1000 ms	1000 ms	1000 ms

PORT	USER	AUX 1	MODEM/AUX 2
BAUD RATE	38400	9600	9600
PARITY	N	N	N
DATA BITS	8	8	8
STOP BITS	1	1	1
FLOW CONTROL	NONE	NONE	NONE

PROGRESS RAIL SERVICES
A Caterpillar Company

DATE:06-24-25
CSX#:PA2021009
PRS/AMJ/SAF

X—X = OUT
O—O = IN

CP-2 TO CP-97

EAST 8TH STREET 524 337C MP. QDY-1.29

REVISIONS
06-14-05 GET PA1999074A, PA1999074B, PA1999075A, PA2002030, PA2002031 & PA2002032

CSX TRANSPORTATION
RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS

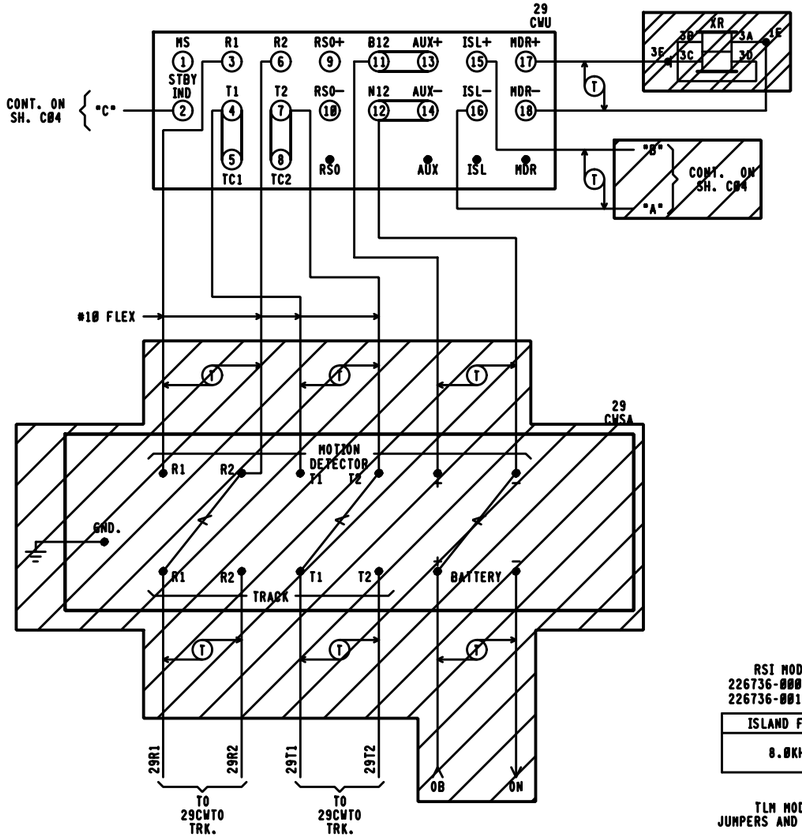
EAST 8TH STREET 524337C
ERIE YARD INDUSTRIAL TRACK
HAWK RECORDER PROGRAM
ERIE, PA MP. QDY-0.65

DESIGNED	DIGITIZED	CHECKED	DATE
GET/WPB	GET/CSM	GET/FAP	05-17-02

DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
3515-0013	1-7		QDY00146	I01	QDY00065	C05
					QDY00129	

REV. 11-12-01

PMD3R.C04



29CWU
PMD-3R MODULES REQUIRED

RMM (RECORDER MEMORY) (NOT USED)
TRM (TRANSCEIVER)
TRM (TRANSCEIVER)
RSI (ISLAND)
RSI (ISLAND)
RYD (RELAY DRIVE)
RYD (RELAY DRIVE)
CPU (CENTRAL PROCESSOR UNIT)
CPU (CENTRAL PROCESSOR UNIT)
TLM (TRANSFER LOGIC)

FRONT VIEW

RSI MODULE
226736-000 8.0KHZ
226736-001 4.0KHZ

ISLAND FREQ.
8.0KHZ

TLM MODULE
JUMPERS AND SWITCHES

(TOGGLE MODE)
STANDBY ONLY W1
3 2 1 (*)

(ENABLE MODE)
ISL 1 DISABLE W2
3 2 1 (*)

(DISABLE MODE)
ISL 2 DISABLE W3
3 2 1 (*)

MINUTE TIMEOUT SWITCH

SETTING	(☆) 9 MINUTES

S2 STANDBY / AUTO / NORMAL

	NORMAL RSI JUMPERS	STANDBY RSI JUMPERS
LOS 0		
LOS 1		
LOS 2		
FAULT 0		
FAULT 1		

NOTE:
PIN 1 IS IDENTIFIED BY ASTERICK BELOW IT.
(☆) = MAY BE SET PER FIELD CONDITIONS.

CABINET SWITCHES
THESE SWITCHES ARE LOCATED ON MOTHERBOARD

MASTER/SLAVE
MASTER SLAVE
S1

SYSTEM CONFIGURATION
S6 & S7 DIP SWITCH POSITIONS

SWITCH	1	2	3	4
SWITCH POSITION	OFF	ON	OFF	OFF
APPROACH:	NORMAL		(NOT USED)	

FREQUENCY SELECT

	S2 & S3 DIP SWITCH POSITIONS 979 HZ					
NORMAL	SWITCH	1	2	3	4	5
	SWITCH POSITION	OFF	ON	OFF	ON	ON
	S4 & S5 DIP SWITCH POSITIONS 979 HZ					
STANDBY	SWITCH	1	2	3	4	5
	SWITCH POSITION	OFF	ON	OFF	ON	ON

▨ = SHOWN ELSEWHERE

ALL ELSE OUT
THIS SHEET IS VOID
WHEN AS IN SERVICED.

PROGRESS RAIL SERVICES
A Caterpillar Company

DATE.06-24-25
CSX#.PA2021009
PRS/ANJ/SAF

REVISIONS
06-14-05 GET PA1999074A, PA1999074B, PA1999075A, PA2002030, PA2002031 & PA2002032

CSX TRANSPORTATION
RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS

CP-2 TO CP-97
ERIE YARD INDUSTRIAL TRACK
CROSSING DETECTION CIRCUITRY
EAST 8TH STREET 524 337C MP. QDY-1.29

DESIGNED	DIGITIZED	CHECKED	DATE
GET/WPB	GET/CSM	GET/FAP	05-17-02

DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
3515-0013	1-3	1-4	QDY00129	C02	QDY00129	C01

REV. 11-12-01 PMD3R.C01

29CWU

TRM LOCAL PARAMETERS PMD-3R DESIGN CARD

		DEFAULTS & /OR STYLE	FIELD RECORD
OPERATING PROGRAM PROG	VERSION AND COMPILE DATE	35.0 MM/DD/YY	_ _ _
SYSTEM MONITOR PROGRAM EPRM	VERSION AND COMPILE DATE	20.2 MM/DD/YY	_ _ _
ADJUSTMENT	RANGE	DEFAULT	TRACK 1
#1 RX	100 IS INTENDED	NA	
#2 PH (PHASE)	INTENDED ABOVE 32 (NOT ADJUSTABLE)	NA	
#3 CW / MD	CW OR MD NOT ADJUSTABLE FROM MD TOWARD CW (SEE TCR 430-01 FOR CONSTRAINTS)	MD	MD
#4 UNI/BI (IF CW IS CHOSEN IN #3)	UNI OR BI	BI	NA
#5 LIA (IF CW IS CHOSEN IN #3)	-9 TO +9	LIA=0	NA
#6 WT (IF CW IS CHOSEN IN #3)	23 TO 99	WT=99	NA
#7 TC	WHEN IN CONFORMANCE WITH PMD-3R MANUAL, ADJUST TC FOR A TRANSMITTER CHECK MONITOR VALUE LESS THAN 470	NA	
#8 B (BALLAST COMPENSATION)	50 TO 250 (FIELD ADJUSTMENT - ADJUST ONLY WHEN IN CONFORMANCE WITH DATA ACCUMULATED AT THIS SITE AND IN COMPLIANCE WITH SUPERVISOR INSTRUCTIONS & PMD-3R MANUAL)	NA	
#9 PC (PHASE COMPENSATION)	0 TO +10 (FIELD ADJUSTMENT - ADJUST ONLY WHEN IN CONFORMANCE WITH SUPERVISOR INSTRUCTIONS & PMD-3R MANUAL)	PC=0	
#10 FREQ	REFERENCE, NOT ADJUSTABLE FROM MENU	NA	NA
#11 FS-T (FALSE SHUNT TIMER)	ENTRANCE TO SUDDEN FALSE SHUNT SUB-MENU	NA	NA
#12 FR (FALSE SHUNT % OF RX APPROACH)	0 TO 80 NOT ADJUSTABLE FROM ZERO UNTIL AFTER STRICT DESIGN REVIEW FOR SITE APPLICATION CONFLICTS, FR=0 MEANS DISABLED (SEE TCR 430-01 FOR CONSTRAINTS)	FR=0	FR=0
#13 FT (FAULT TIMER)	0 TO 99 MINUTES (FACTORY DEFAULT IS 10)	FT=10	NA
#14 AR-T (APPROACH RELEASE TIMER)	ENTRANCE TO SUB-MENU FOR RESIDUAL FALSE SHUNT STARTED DURING TRAIN PASSAGE	NA	NA
#15 AR (FALSE SHUNT % OF RX APPROACH)	0 TO 80 NOT ADJUSTABLE FROM ZERO UNTIL AFTER STRICT DESIGN REVIEW FOR SITE APPLICATION CONFLICTS AR=0 MEANS DISABLED (SEE TCR 430-01 FOR CONSTRAINTS)	AR=0	AR=0
#16 AT (FAULT TIMER)	0 TO 99 MINUTES (FACTORY DEFAULT IS 10)	AT=10	AT=10
#17 HS (HIGHEST STABLE R VALUE)	REFERENCE, NOT ADJUSTABLE FROM MENU	NA	NA
#18 LP (LOWEST STABLE PHASE)	REFERENCE, NOT ADJUSTABLE FROM MENU	NA	NA
#19 SD (SELF DIAGNOSTICS)	REFERENCE, NOT ADJUSTABLE FROM MENU, BUT MENU CAN REVIEW, THEN CLEAR DIAGNOSTIC CODES	NA	NA
#20 REC (TRAIN RECORD DISPLAY)	REFERENCE, SEQUENTIAL DISPLAY OF PREVIOUS WARNING TIME RECORDS (NO ADJUSTMENT)	NA	NA
#21 PRN (PRINTER/LAPTOP READY)	STARTS DOWNLOAD OF INTERNAL TRAIN EVENT LOG WHEN SERIAL PORT CABLE CONNECTED	NA	NA
#22 LSP (LOCAL SERIAL PORT)	ENTRANCE TO SUB-MENU FOR SETTING SPEED OF SERIAL PORT DOWNLOADS	NA	NA
#23 @ (BAUD RATE)	BAUD RATE OF 38,400 IS 384 AND DEFAULT	@=384	@=384
#24 DB (DATA BITS)	7 OR 8 8 IS DEFAULT	DB=8	DB=8
#25 PA (PARITY)	O, E, OR N N IS DEFAULT	PA=N	PA=N
#26 AR (AUTO RX)	UP OR DN DN IS FACTORY DEFAULT (FIELD ADJUSTMENT - ADJUST TO "UP" ONLY WHEN BC HAS BEEN PREVIOUSLY STABILIZED THROUGH ADJUSTMENT, AND ONLY WHEN IN CONFORMANCE WITH SUPERVISOR INSTRUCTIONS AND PMD-3R MANUAL)	AR=DN	AR=DN
#27 RX (POTENTIOMETER VALUE)	REFERENCE, DISPLAY ONLY	NA	NA
#28 VERS (PROGRAM VERSION)	REFERENCE, SEQUENTIAL DISPLAY OF EPROM AND SOFTWARE VERSIONS	NA	NA

ALL OUT
THIS SHEET IS VOID
WHEN AS IN SERVICED.

PROGRESS RAIL SERVICES
A Caterpillar Company

DATE.06-24-25
CSX#.PA2021009
PRS/AMJ/SAF

REVISIONS
06-14-05 GET PA1999074A, PA1999074B, PA1999075A, PA2002030, PA2002031 & PA2002032

CSX TRANSPORTATION
RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS

CP-2 TO CP-97
ERIE YARD INDUSTRIAL TRACK
DETECTION DEVICE PROGRAM
EAST 8TH STREET 524 337C MP. QDY-1.29

DESIGNED	DIGITIZED	CHECKED	DATE
GET/WPB	GET/CSM	GET/FAP	05-17-02

DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
3515-0013	1-4	1-5	QDY00129	C03	QDY00129	C02

INDEX

CONTENTS

SH. NO.		REVISION NO. 1	2	3	4	5	6	7	8	9
I01	INDEX AND REVISIONS	X	⌀							
S01	TRACK AND SIGNAL PLAN	X	⌀							
E01	POWER DISTRIBUTION	X	⌀							
E02	ELECTROLOGIXS XP4 MODULE LAYOUT		/							
C01	XP4 CROSSING DETECTION AND I/O CIRCUITS		/							
C02	XP4 SETUP INFORMATION		/							
C03	CROSSING WARNING DEVICE CIRCUITRY	X	⌀							
C04	HAWK RECORDER CIRCUITS	X	⌀							
C05	HAWK RECORDER PROGRAM	X	⌀							

/ = PLANS SENT TO FIELD (DISTRIBUTED)

X = PLANS AS-IN-SERVICED (UP TO DATE)

C01	CROSSING DETECTION CIRCUITRY	X								
C02	DETECTION DEVICE PROGRAM	X								

= NOTE

PROGRESS RAIL SERVICES
A Caterpillar Company

X—X = OUT
O—O = IN

DATE: 06-24-25
CSX#: PA2021009
PRS/AMJ/SAF

REVISIONS

REV. NO.	PROJECT NO.	DESIGN DATE	IN SERVICE DATE	REVISION DATE
1	PA19990T4A PA19990T4B PA19990T5A PA2002030 PA2002031 PA2002032	-----	-----	06-14-05
2	PA2021009	06-24-25		

TO BE COMPLETED ON A.I.S.

CP-2 TO CP-97

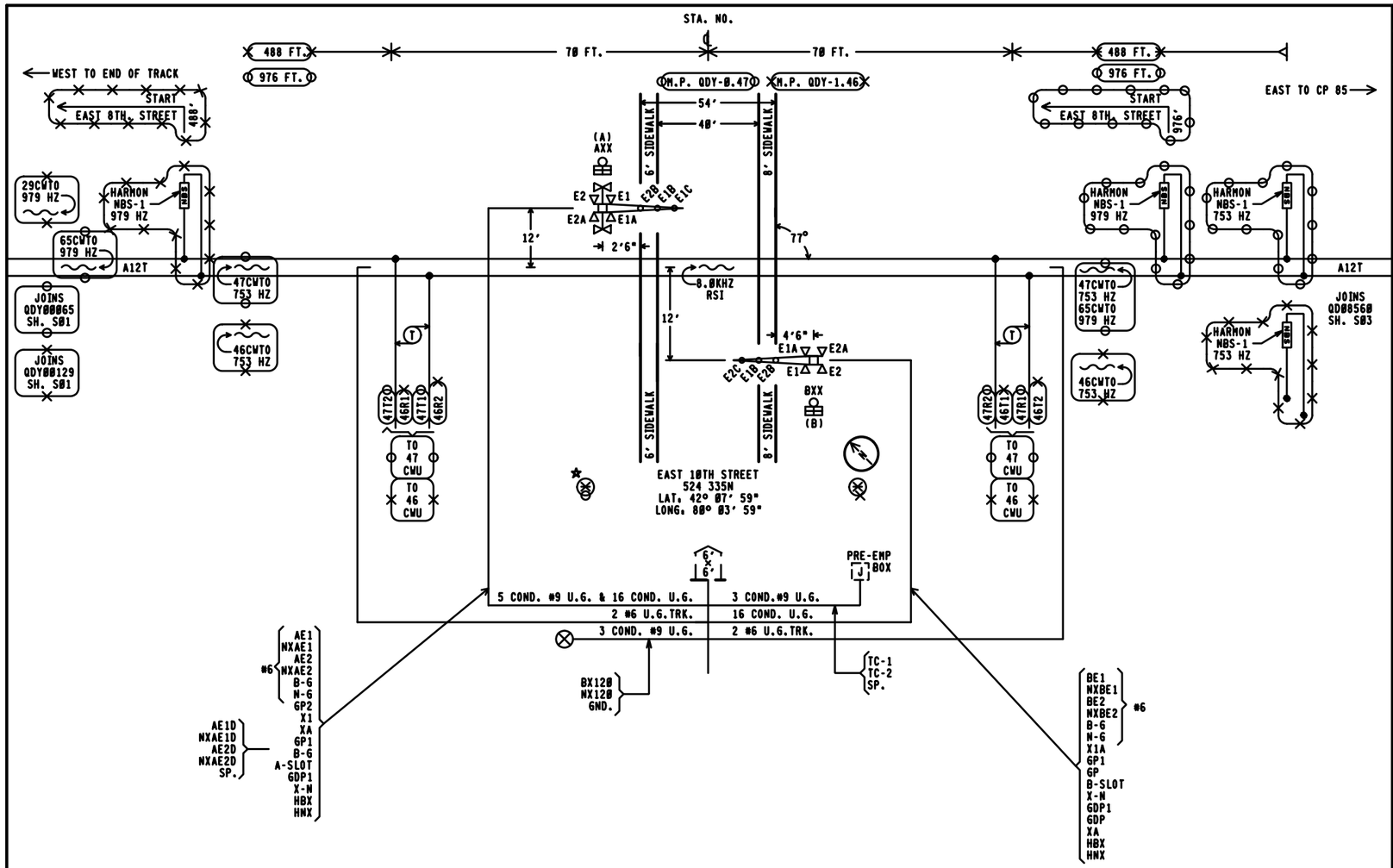
EAST 10TH STREET 524 335N MP. QDY-1.46

CSX TRANSPORTATION
RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS

EAST 10TH STREET 524335N
ERIE YARD INDUSTRIAL TRACK
INDEX AND REVISIONS
ERIE, PA MP. QDY-0.47

DESIGNED	DIGITIZED	CHECKED	DATE
GET/WPB	GET/CSM	GET/FAP	05-17-02

DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
3515-0015	1	1-1	QDY00047	S01	QDY00047	I01
		REV. 10-08-01	QDY00146		QDY00146	PMD3R.I01



APROACH LENGTHS TABLE	WESTWARD EASTBOUND TRACK 1	EASTWARD WESTBOUND TRACK 1	
DC, AFO, TYPE C, MOTION, CWT, OR OTHER	CWT	CWT	MOT
STANDARD MINIMUM WARNING TIME	25	25	2@
ROADWAY GATE TIME	5	5	
CLEARANCE TIME	@	@	
DOT TRAFFIC LIGHT SIMULTANEOUS PREEMPT TIME ✱	@	@	
DESIGNED WARNING TIME FOR TRAINS AT TIME TABLE SPEED	3@	3@	25
DOT TRAFFIC LIGHT ADVANCE PREEMPT TIME ✱	2@	2@	@
CONTROL EQUIPMENT DECISION TIME	4	4	2
DESIGNED DETECTION TIME FOR TRAINS AT TIME TABLE SPEED	54	54	27
TIME TABLE MAXIMUM TRAIN SPEED IN MILES PER HOUR	1@	1@	
BUFFER SPEED IN MILES PER HOUR	2.5	2.5	
TOTAL WARNING SYSTEM DESIGN SPEED	12.5	12.5	
APPROACH DISTANCE TO ISLAND EDGE IN FEET	976'	976'	488
HALF WIDTH OF ISLAND IN FEET	7@'	7@'	
APPROXIMATE MILE POSTS FOR APPROACH CIRCUIT	@.67	@.27	
	1.56	1.36	

✱AUTHORIZING AGENCY: PENN DOT
✱DATE OF REQUIREMENT: @5-21-24
✱AMOUNT OF TIME (SEC.): 2@ SEC

NOTE:
1. 2@ WATT BULBS ON GATE ARMS. ALL OTHERS TO BE 25 WATT BULBS.
2. GATE LENGTH (A) 4@' (B) 38'
3. ✱ = LOCATION OF HOUSE
4. (N) = APPROXIMATE COMPASS NORTH.
5. THE TRANSMITTER LEADS FOR MOTION OR PREDICTOR EQUIPMENT SHOULD BE CONNECTED ON THE BUNGALOW OR SHORT LEAD SIDE OF THE CROSSING.
6. ISLAND TRACK LEADS SHOULD BE CONNECTED 5@ FEET FROM ROAD EDGE BUT ON NARROW ROADS (2@' OR LESS) ISLAND LENGTH SHALL BE 12@ FEET.
7. WARNING SYSTEM APPROACH CIRCUIT DISTANCES ARE TO BE MEASURED FROM THE ISLAND TRACK CONNECTIONS.

★ = DRAFTING ERROR CORRECTION

PROGRESS RAIL SERVICES
A Caterpillar Company
DATE:06-24-25
CSX@.PA2@21@@9
PRS/AMJ/SAF

= OUT
= IN

REVISIONS

06-14-05 GET PA1999074A, PA1999074B, PA1999075A, PA2002030, PA2002031 & PA2002032

CP-2 TO CP-97

EAST 10TH STREET 524 335N MP. QDY-1.46

CSX TRANSPORTATION
RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS

EAST 10TH STREET 524335N

ERIE YARD INDUSTRIAL TRACK
TRACK AND SIGNAL PLAN
ERIE, PA MP. QDY-0.47

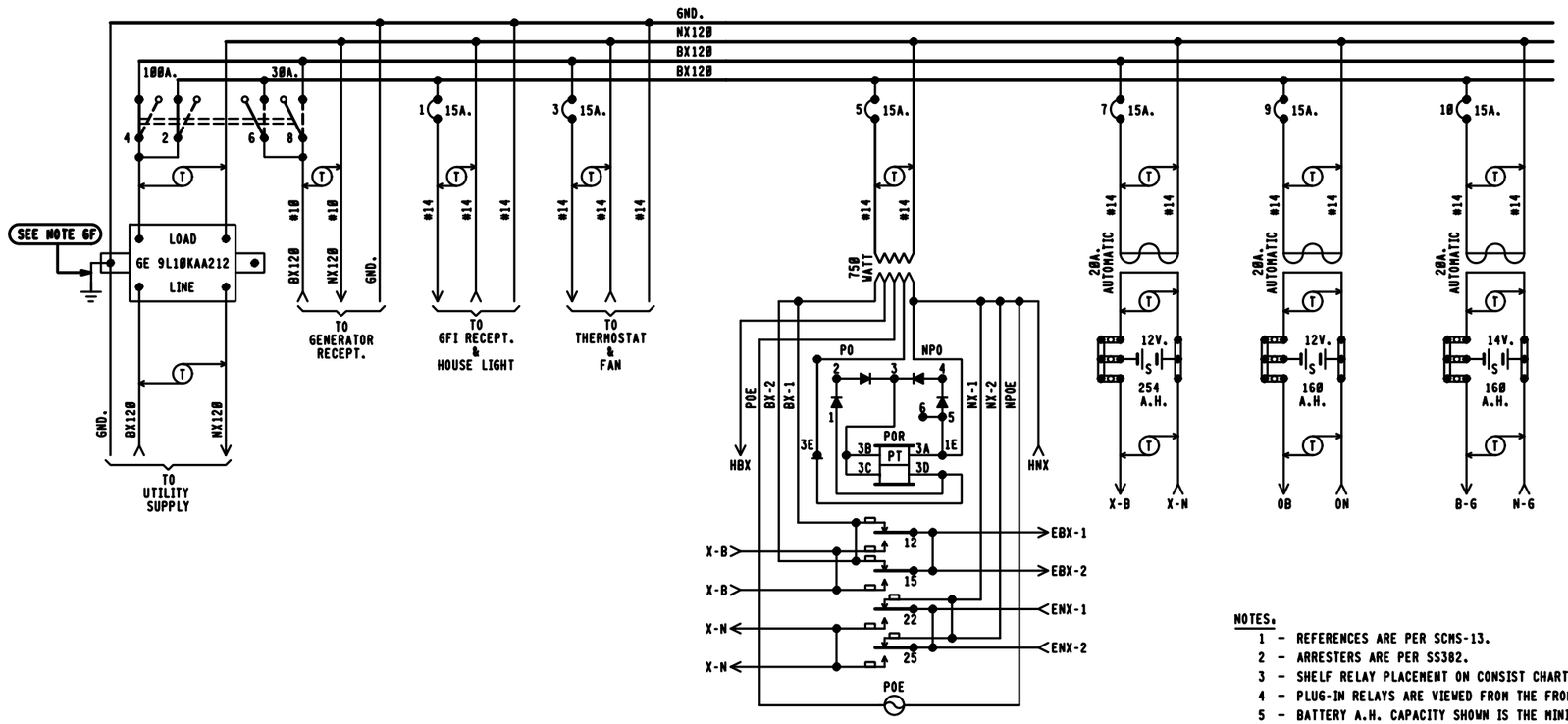
DESIGNED	DIGITIZED	CHECKED	DATE
GET/WPB	GET/CSM	GET/FAP	05-17-02

DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
3515-0015	1-1	1-2	QDY00047	E01	QDY00047	S01

REV. 06-05-01 QDY00146 QDY00146 PMD3R.S01

TOP ROW

			PER	XR	XPR	GPR	EOR		POR		
			12 F S3 15 C3Ø 22 23 F 25 F 32 35	12 FB S3 15 FB C3Ø 22 23 25 F 32 35	22 F S8 25 F C3Ø	12 B S4 15 B C3Ø 22 25 32 F 35 B D FB	12 FB S18 15 FB C3Ø 32 FB 35 FB		12 FB 15 FB S15 22 FB C3Ø 25 FB 32 F 35		



NOTES.

1 - REFERENCES ARE PER SCMS-13.
2 - ARRESTERS ARE PER SS382.
3 - SHELF RELAY PLACEMENT ON CONSIST CHART HAS NO SIGNIFICANCE.
4 - PLUG-IN RELAYS ARE VIEWED FROM THE FRONT OF RACK.
5 - BATTERY A.H. CAPACITY SHOWN IS THE MINIMUM REQUIREMENT.
6 - WIRING
  A - FEED TO ALL BUSSES, LIGHT CIRCUITS,MOTOR CIRCUITS TO BE #1Ø FLEX.
  B - 12Ø-VOLT FEED FROM ENTRANCE TO POWER BUSS TO BE #1Ø FLEX.
  C - ALL TRACK WIRES TO BE #1Ø FLEX.
  D - ALL OTHERS TO BE #16 FLEX UNLESS NOTED.
  E - BATTERY OUTPUTS TO BE #6 TWISTED PAIR PER SS36Ø.
  F - GROUND WIRE NOT NECESSARY WHEN GE ARRESTER IS MOUNTED ON GROUND PLANE OR METAL ENCLOSURE AFFIXED DIRECTLY TO BUNGALOW METALLIC STRUCTURAL MEMBER.
7 - CIRCUIT INTERRUPTERS 2 & 4 ARE MECHANICALLY INTERLOCKED WITH CIRCUIT INTERRUPTERS 6 & 8.

6'X 6' RELAY HOUSE W/FARADAY SHIELD

PROGRESS RAIL SERVICES
A Caterpillar Company
= OUT
= IN

DATE.Ø6-24-25
CSX#.PA2Ø21ØØ9
PRS/AMJ/SAF

CP-2 TO CP-97

EAST 10TH STREET 524 335N MP. QDY-1.46

REVISIONS
Ø6-14-Ø5 GET PA1999Ø74A, PA1999Ø74B, PA1999Ø75A, PA2ØØ2Ø3Ø, PA2ØØ2Ø31 & PA2ØØ2Ø32

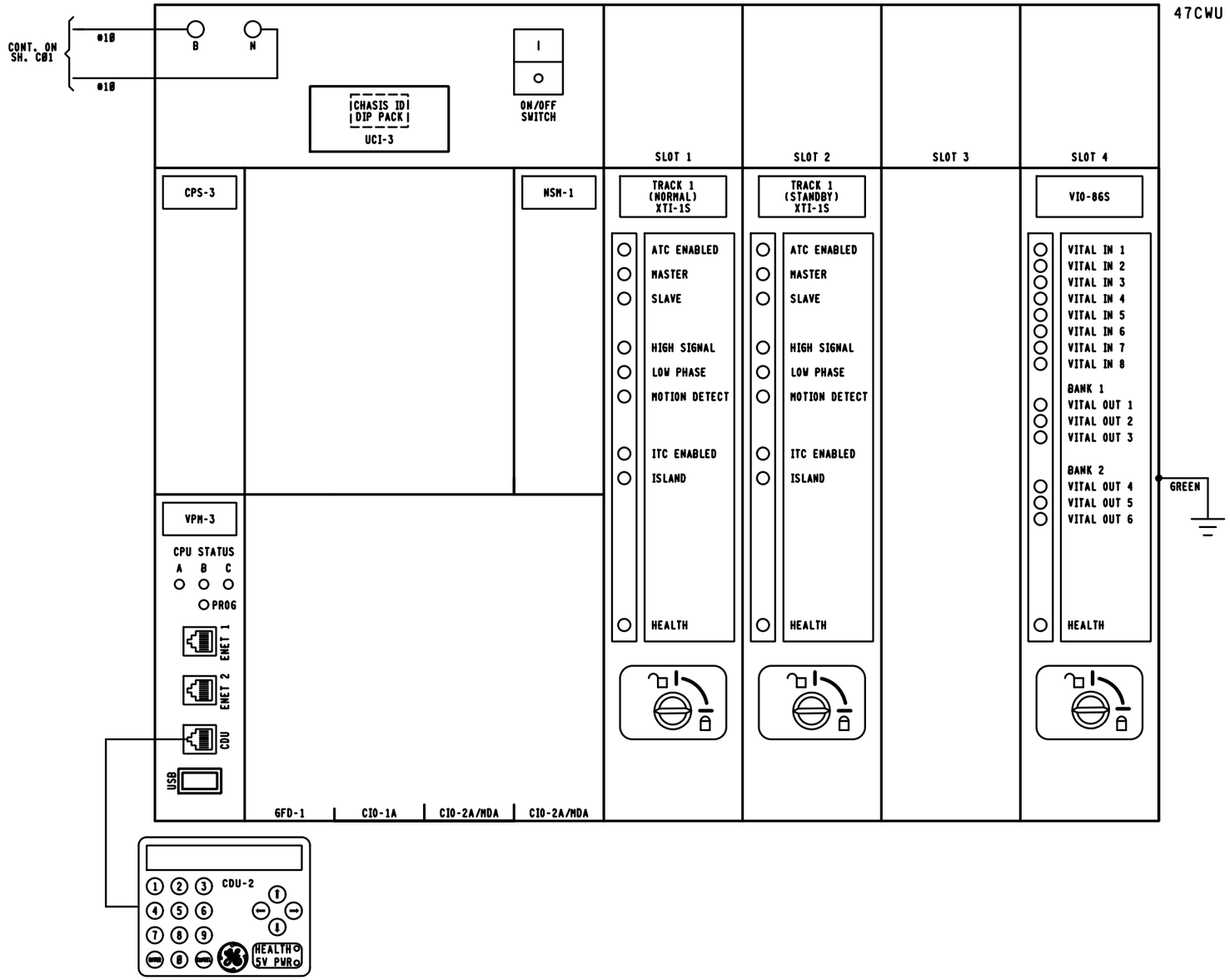
CSX TRANSPORTATION
RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS

EAST 10TH STREET 524335N
ERIE YARD INDUSTRIAL TRACK
POWER DISTRIBUTION
ERIE, PA MP. QDY-0.47

DESIGNED	DIGITIZED	CHECKED	DATE
GET/WPB	HAR/CSM	GET/FAP	Ø5-17-Ø2

DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
3515-ØØ15	1-2	1-3	QDYØØØ47	C01	QDYØØØ47	E01
			QDYØØ146	E02	QDYØØ146	

REV. Ø8-13-Ø1 PMD3R.E01



6'X 6' RELAY HOUSE W/FARADAY SHIELD

PROGRESS RAIL SERVICES
A Caterpillar Company
NEW WORK
DATE.06-24-25
CSX©.PA2021089
PRS/AMJ/SAF

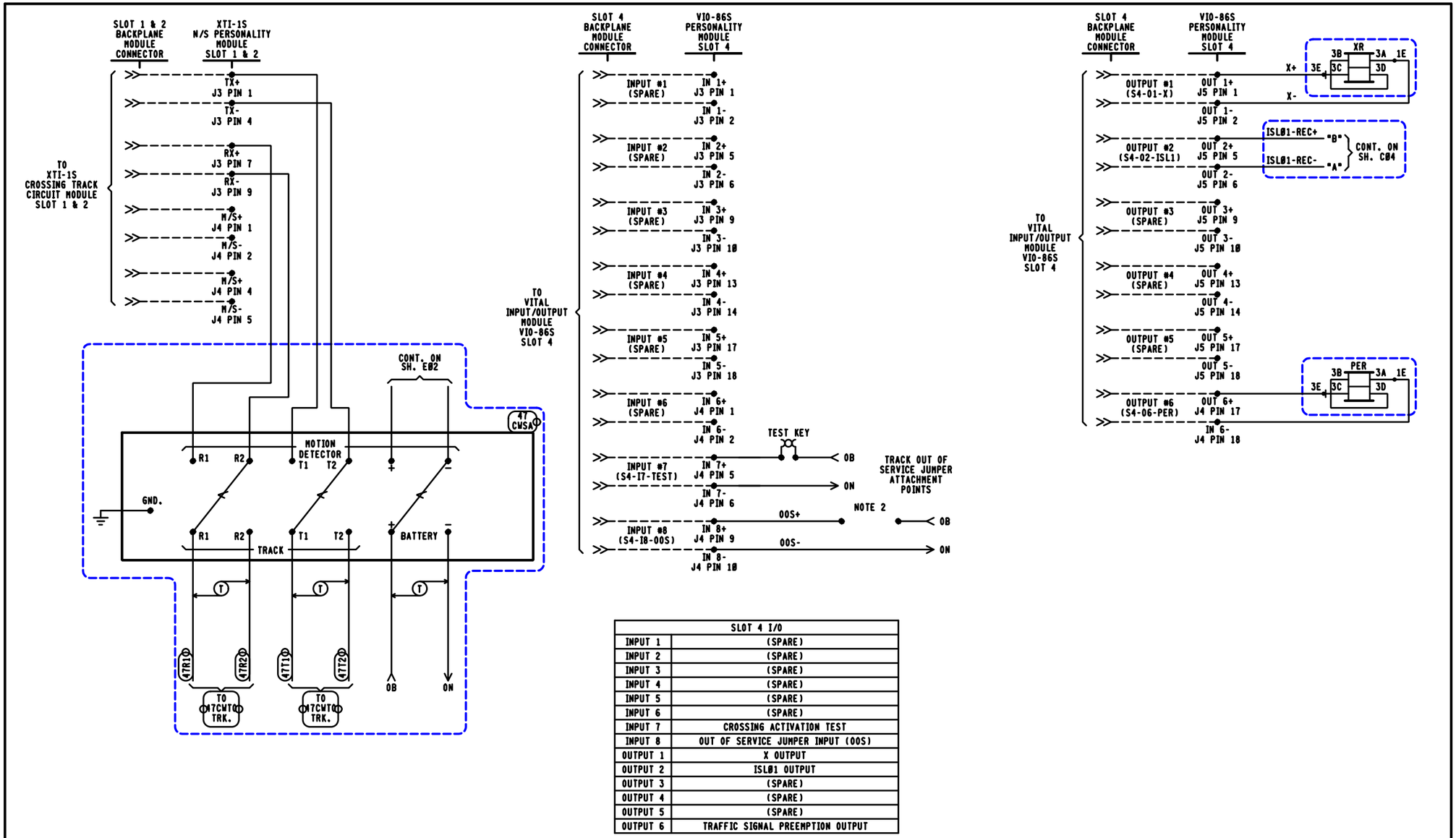
REVISIONS

CSX TRANSPORTATION
RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS

EAST 18TH STREET 524335N
ERIE YARD INDUSTRIAL TRACK
ELECTROLOGIXS XP4 MODULE LAYOUT
ERIE, PA MP. QDY-0.47

DESIGNED	DIGITIZED	CHECKED	DATE
PRS/AMJ	PRS/AMJ	PRS/SAF	06-24-25

DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
-----	-----	-----	QDY00047	C01	QDY00047	E02



SLOT 4 I/O	
INPUT 1	(SPARE)
INPUT 2	(SPARE)
INPUT 3	(SPARE)
INPUT 4	(SPARE)
INPUT 5	(SPARE)
INPUT 6	(SPARE)
INPUT 7	CROSSING ACTIVATION TEST
INPUT 8	OUT OF SERVICE JUMPER INPUT (OOS)
OUTPUT 1	X OUTPUT
OUTPUT 2	ISL01 OUTPUT
OUTPUT 3	(SPARE)
OUTPUT 4	(SPARE)
OUTPUT 5	(SPARE)
OUTPUT 6	TRAFFIC SIGNAL PREEMPTION OUTPUT

= EXISTING

PROGRESS RAIL SERVICES
A Caterpillar Company
NEW WORK
DATE:06-24-25
CSX#.PA2021009
PRS/AMJ/SAF

= OUT
= IN

NOTES
1. ALL WIRE THIS SHEET #16 AWG UNLESS NOTED.
2. APPROACH DISABLE JUMPER INPUT. THIS INPUT IS USED IN COMBINATION WITH THE SOFT APPROACH DISABLE ACCESSED THROUGH THE CDU-2 KEYPAD. BOTH BITS MUST BE HIGH TO DISABLE AN APPROACH. THE OPERATOR IS SOLELY RESPONSIBLE FOR CROSSING PROTECTION WHEN THE APPROACH DISABLE FUNCTION IS ACTIVATED.

REVISIONS

CSX TRANSPORTATION
RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS

EAST 10TH STREET 524335N

ERIE YARD INDUSTRIAL TRACK
XP4 CROSSING DETECTION AND I/O CIRCUITS
ERIE, PA MP. QDY-0.47

DESIGNED	DIGITIZED	CHECKED	DATE
PRS/AMJ	PRS/AMJ	PRS/SAF	06-24-25

DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
-----	-----	-----	QDY00047	C02	QDY00047	C01 (A)

SITE SPECIFIC MDR DESCRIPTIONS AND SETTINGS			
NAME		MDR1	MDR2
FUNCTION		XR	PER
WARNING TIME		30	50
CW/MD		CW	CW
AP TIME(PREEMPT)		20	NA
CWE-WT		80	80
AUX RECOVERY DELAY		NA	NA
TRACK		TK 1	TK 1
TRACK ASSIGNED		ASSIGNED	ASSIGNED
OFFSET DISTANCE		0'	0'
MD RESTART		0*	0*
SUDDEN SHUNT ZONE		0*	0*
POSITIVE START	PSEN	DISABLE	DISABLE
	PSRX	NA	NA
	PST	NA	NA
POST JOINT DETECT	PJEN	ENABLE	ENABLE
	PJRX	15	15
	PJDT	15	15
CLEAR JOINT LOS	CJ-LOS MODE	STANDARD	STANDARD
	CJ-LOS RX	15	15
	CJ-LOS TIME	99	99

BASIC TRACK SETUP	
	TRACK 1
FREQUENCY	753 HZ
MASTER/SLAVE	MASTER
RX ADJUST	100 *
TCA	*
DIRECTION MODE	BI
LIA	*
ADVANCED APPROACH	*
NBS COMP RX	*
TRK ISLAND ASSIGN	ISL1
APPROACH LENGTH	976'
AUTO RX	ENABLE

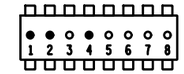
ADVANCED TRACK SETUP		
		TRACK 1
MOTION DET TIMER	MDEN	DISABLE
	MDTT	10 MIN
FALSE SHUNT	FSEN	DISABLE
	FSRX	NA
	FST	NA
APPROACH RELEASE	AREN	DISABLE
	ARRX	NA
	ART	NA
LOS TIME		16 SEC
IJ-LOS TIME		5 SEC
NRML*SHRT*VRYSHRT		*

ISLAND SETUP	
	TRACK 1
ENABLE/DISABLE	ENABLE
FREQUENCY	8.0 KHZ
LOSS OF SHUNT	2 SEC.
FAULT DELAY	1

VPM3 ETHERNET SETUP	
	IP ADDRESS
ETHERNET PORT 1 (TOP)	192.168.0.11
ETHERNET PORT 2 (BOTTOM)	192.168.1.12

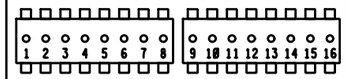
APPLICATION SOFTWARE INFORMATION	
NAME	524335N_0.47
REV.	1.0
CHECKSUM	XXXX ✕
CRC	XXXX ✕
CH. I.D.	47

CHASSIS ID DIP SHUNTS
LOCATED ON BACKPLANE
UNDERNEATH UCI-3 MODULE



○ = TAB INTACT (MADE)
● = TAB PUNCHED OUT (BROKEN)

VITAL SELECTION DIP SHUNTS
LOCATED INSIDE UCI-3 MODULE
UNDERNEATH EPROM



○ = TAB INTACT (MADE)
● = TAB PUNCHED OUT (BROKEN)

VITAL SELECTION DIP SHUNTS		
#	NAME	STATE
1	NA	INTACT (NOT USED)
2	NA	INTACT (NOT USED)
3	NA	INTACT (NOT USED)
4	NA	INTACT (NOT USED)
5	NA	INTACT (NOT USED)
6	NA	INTACT (NOT USED)
7	NA	INTACT (NOT USED)
8	NA	INTACT (NOT USED)
9	NA	INTACT (NOT USED)
10	NA	INTACT (NOT USED)
11	NA	INTACT (NOT USED)
12	NA	INTACT (NOT USED)
13	NA	INTACT (NOT USED)
14	NA	INTACT (NOT USED)
15	NA	INTACT (NOT USED)
16	NA	INTACT (NOT USED)

✕ = FIELD TO PROVIDE ON A.I.S.

( ) = NOTE

PROGRESS RAIL SERVICES
A Caterpillar Company

NEW WORK
DATE: 06-24-25
CSX#: PA2021009
PRS/AMJ/SAF

~~X~~ = OUT

NOTES:
● = FIELD ADJUSTMENT
NA = NOT APPLICABLE

REVISIONS

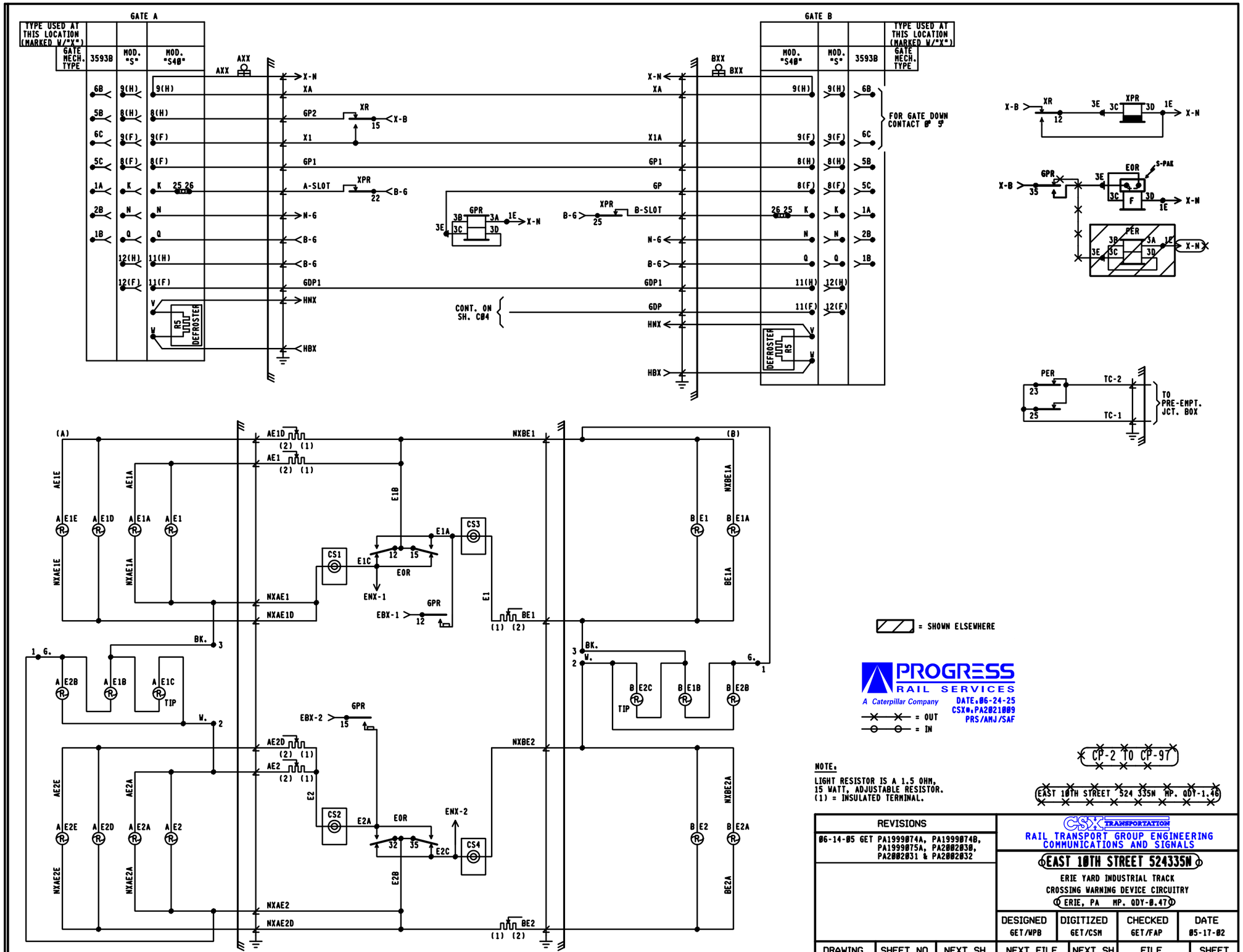
CSX TRANSPORTATION
RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS

EAST 10TH STREET 524335N

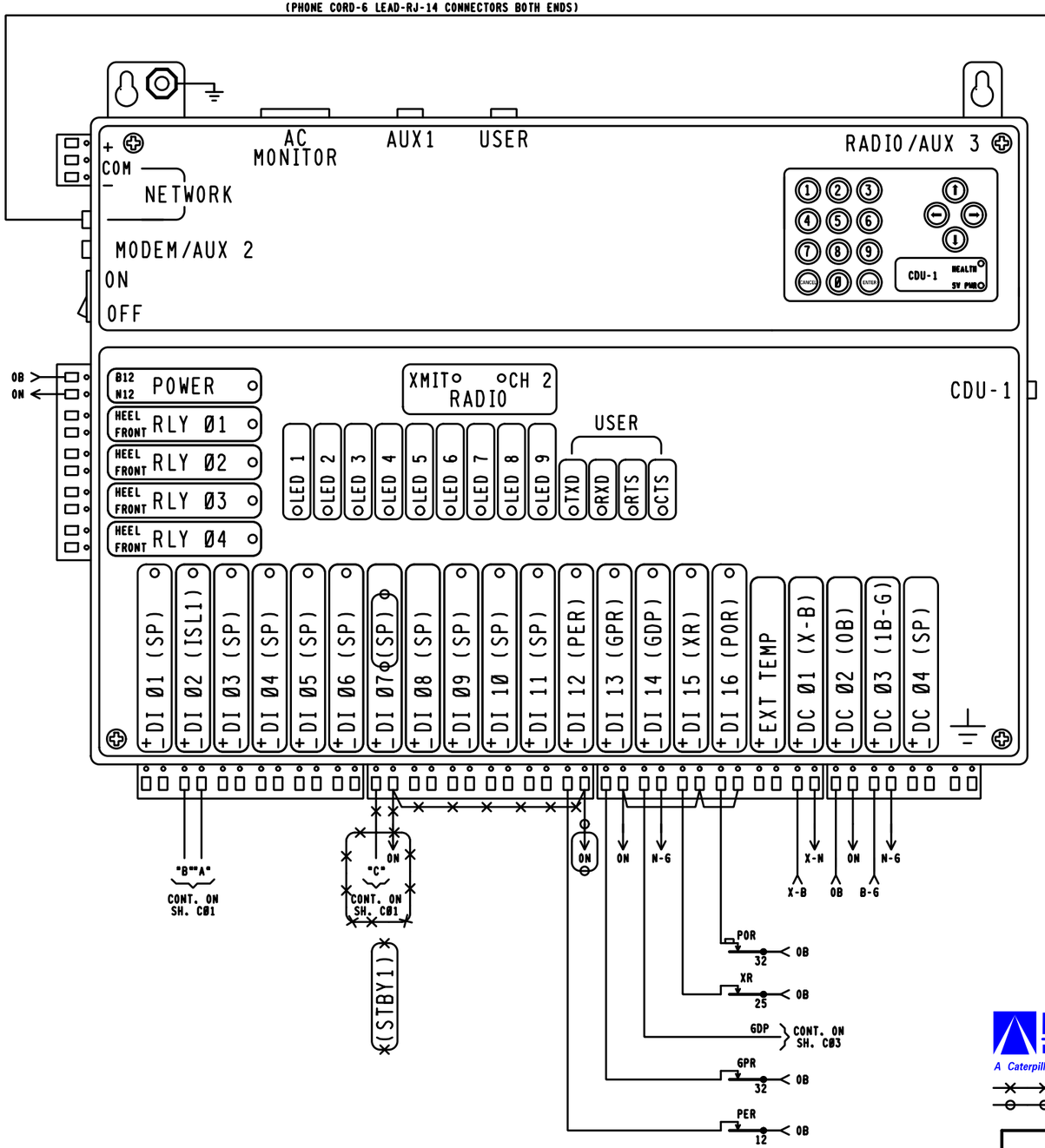
ERIE YARD INDUSTRIAL TRACK
XP4 SETUP INFORMATION
ERIE, PA MP. QDY-0.47

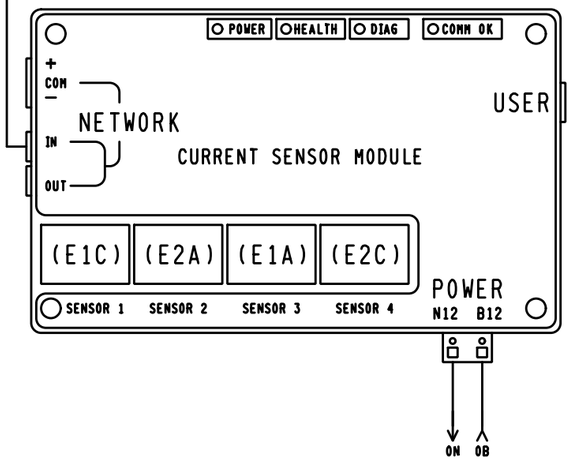
DESIGNED	DIGITIZED	CHECKED	DATE
PRS/AMJ	PRS/AMJ	PRS/SAF	06-24-25

DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
-----	-----	-----	QDY00047	C03	QDY00047	C02 (A)


GATE A
TYPE USED AT THIS LOCATION (MARKED W/"X")
GATE MECH. TYPE
3593B
MOD. "S"
MOD. "S4Ø"
AXX
X-N
XA
XR
GP2
15
X-B
X1
GP1
A-SLOT
XPR
22
B-G
K
25 26
N
N-G
Q
B-G
11(H)
B-G
11(F)
GDP1
V
HNX
R5
DEFROSTER
W
HBX
GPR
3B
3A
1E
3E
3C
3D
X-N
GATE B
BXX
BXX
X-N
XA
X1A
GP1
GP
B-SLOT
XPR
B-G
25
N-G
B-G
GDP1
GDP
HNX
HBX
9(H)
9(F)
8(H)
8(F)
26 25
K
N
Q
11(H)
12(H)
11(F)
12(F)
6B
5B
6C
5C
1A
2B
1B
FOR GATE DOWN CONTACT 6B 5B
CONT. ON SH. C@4
DEFROSTER
R5
V
W
X-B
XR
12
3E
3C
XPR
3D
1E
X-N
GPR
35
EOR
S-PAK
F
PER
TC-2
TC-1
23
25
TO PRE-EMPT. JCT. BOX
(A)
(B)
AE1D
AE1
(2) (1)
NXBE1
AE1E
AE1A
E1B
NXBE1A
A E1E
A E1D
A E1A
A E1
B E1
B E1A
NXAE1E
NXAE1A
BE1A
CS1
CS3
E1C
E1A
12
15
EOR
ENX-1
GPR
EBX-1
12
E1
BE1
(1) (2)
NXAE1
NXAE1D
BK.
3
1
6.
W.
2
A E2B
A E1B
A E1C
TIP
B E2C
B E1B
B E2B
GPR
EBX-2
15
AE2D
AE2
E2
NXBE2
AE2E
AE2A
NXBE2A
A E2E
A E2D
A E2A
A E2
B E2
B E2A
NXAE2E
NXAE2A
BE2A
CS2
CS4
E2A
EOR
ENX-2
32
35
E2C
E2B
NXAE2
NXAE2D
BE2
(1) (2)
= SHOWN ELSEWHERE
PROGRESS RAIL SERVICES
A Caterpillar Company
= OUT
= IN
DATE.Ø6-24-25
CSX@.PA2Ø21Ø89
PRS/AMJ/SAF
NOTE.
LIGHT RESISTOR IS A 1.5 OHM, 15 WATT, ADJUSTABLE RESISTOR.
(1) = INSULATED TERMINAL.
CP-2 TO CP-97
EAST 10TH STREET 524 335N MP. QDY-1.46
REVISIONS
Ø6-14-Ø5 GET PA1999Ø74A, PA1999Ø74B, PA1999Ø75A, PA2ØØ2Ø3Ø, PA2ØØ2Ø31 & PA2ØØ2Ø32
CSX TRANSPORTATION
RAIL TRANSPORT GROUP ENGINEERING COMMUNICATIONS AND SIGNALS
EAST 10TH STREET 524335N
ERIE YARD INDUSTRIAL TRACK
CROSSING WARNING DEVICE CIRCUITRY
ERIE, PA MP. QDY-Ø.47
DESIGNED GET/WPB
DIGITIZED GET/CSM
CHECKED GET/FAP
DATE Ø5-17-Ø2
DRAWING 3515-0015
SHEET NO 1-5
NEXT SH 1-6
NEXT FILE QDY@@847 QDY@@146
NEXT SH C@4
FILE QDY@@847 QDY@@146
SHEET C@3

(PHONE CORD-6 LEAD-RJ-14 CONNECTORS BOTH ENDS)





PROGRESS RAIL SERVICES
A Caterpillar Company

DATE:Ø6-24-25
CSX#.PA2Ø21ØØ9
PRS/AMJ/SAF

= OUT
= IN

CP-2 TO CP-97

EAST 10TH STREET 524 335N MP. QDY-1.46

REVISIONS
Ø6-14-Ø5 GET PA1999Ø74A, PA1999Ø74B, PA1999Ø75A, PA2ØØ2Ø3Ø, PA2ØØ2Ø31 & PA2ØØ2Ø32

CSX TRANSPORTATION
RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS

EAST 10TH STREET 524335N
ERIE YARD INDUSTRIAL TRACK
HAWK RECORDER CIRCUITS
ERIE, PA MP. QDY-0.47

DESIGNED	DIGITIZED	CHECKED	DATE
GET/WPB	GET/CSM	GET/FAP	Ø5-17-Ø2

DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
3515-0015	1-6	1-7	QDY00047	CØ5	QDY00047	CØ4

REV. 10-08-01 QDY00146 QDY00146 PHD3R.CØ3

	DEFAULTS AND/OR STYLE	FIELD RECORD
HAWK EXECUTIVE PROGRAM	VERSION 2.3, COMPILED ON NOV 14, 2001	VERSION ___, COMPILED ON _____ (FIELD TO ENTER)
CSXT USER PROGRAM (IF LOADED)	VERSION X.XXX, COMPILED ON MM-DD-YY	VERSION _____, COMPILED ON _____ (FIELD TO ENTER)
SYSTEM SETTINGS		
DATE & TIME (ENABLE DAYLIGHT SAVINGS TIME = Y (YES)	MM-DD-YY 23% 01:59	n/a
MILE POST	XYZ-789.01	QDY-1.46
SITE NAME	MAIN ST (SR-17,US-1)	EAST 10TH STREET
DOT NUMBER	123456A	524335N

BATTERY INPUTS	DC 01	DC 02	DC-03	DC-04
CHANNEL	1	2	3	4
BATTERY CHANNEL NAMES	X-B BULB BATTERY	OB ELECTRONIC BATTERY	1B-G GATE BATTERY	SPARE
BATTERY CHANNEL I.D.	X-B	OB	1B-G	SP
SAMPLE PERIOD	500 ms	500 ms	500 ms	10,000 ms
RESOLUTION	00.2 V	00.2 V	01.2V	01.2V

DIGITAL INPUTS	DI 01	DI 02	DI 03	DI 04	DI 05
CHANNEL	1	2	3	4	5
NAME		ISLAND TRACK 1			
ID	SP	ISL1	SP	SP	SP
ON NAME		ISL1 UP			
OFF NAME		ISL1 DN			
ON DEBOUNCE TIME	1000 ms	100 ms	1000 ms	1000 ms	1000 ms
OFF DEBOUNCE TIME	1000 ms	100 ms	1000 ms	1000 ms	1000 ms
TOGGLE PERIOD	500 ms	500 ms	500 ms	500 ms	500 ms

DIGITAL INPUTS	DI 06	DI 07	DI 08	DI 09	DI 10
CHANNEL	6	7	8	9	10
NAME					
ID	SP	SP	SP	SP	SP
ON NAME					
OFF NAME					
ON DEBOUNCE TIME	1000 ms	1000 ms	1000 ms	1000 ms	1000 ms
OFF DEBOUNCE TIME	1000 ms	1000 ms	1000 ms	1000 ms	1000 ms
TOGGLE PERIOD	500 ms	500 ms	500 ms	500 ms	500 ms

% HARMON OR SAFETRAN OUTPUT INDICATIONS WILL DICTATE WHETHER PRIMARY UNIT OR STANDBY UNIT HAS THE "ON" NAME.

DI 07
7
STANDBY1
STBY1
STANDBY UNIT
PRIMARY UNIT
100 ms
100 ms
500 ms

DIGITAL INPUTS	DI 11	DI 12	DI 13	DI 14	DI 15	DI 16
CHANNEL	11	12	13	14	15	16
NAME		PER	GPR	GDP	XR	POR
ID	SP	PER	GPR	GDP	XR	POR
ON NAME		PER UP	GATE VERTICAL	GATE HORIZ	XR UP	POR UP
OFF NAME		PER DN	LIGHTS FLASH	NOT HORIZ	XR DN	POR DN
ON DEBOUNCE TIME	1000 ms	100 ms	100 ms	100 ms	100 ms	100 ms
OFF DEBOUNCE TIME	1000 ms	100 ms	100 ms	100 ms	100 ms	100 ms
TOGGLE PERIOD	500 ms	500 ms	500 ms	500 ms	500 ms	500 ms

MODULE-DIGITAL 4 QUAD CURRENT SENSOR SERIAL NUMBER: [_____] (BLANK UNTIL AIS RECEIVED)				
RESOLUTION (AMPS RMS) : [00.1] ARMS				
AUTOMATICALLY ALLOCATED DIGITAL INPUT	DI 17	DI 18	DI 19	DI 20
DIGITAL 4 QUAD CURRENT SENSOR	1	2	3	4
NAME	E1C	E2A	E1A	E2C
ID	E1C	E2A	E1A	E2C
LIT BULB COUNT ON EACH CIRCUIT	6	6	4	4
CURRENT READING IN AMPS AT APPROXIMATE 10.0 VOLTS BULB VOLTAGE	14	14	9	9

CHANNEL	1	2	3	4
NAME	RELAY OUTPUT 01	RELAY OUTPUT 02	RELAY OUTPUT 03	RELAY OUTPUT 04
I.D.	RLY01	RLY02	RLY03	RLY04
ON NAME	ON	ON	ON	ON
OFF NAME	OFF	OFF	OFF	OFF
PULSE DURATION	1000 ms	1000 ms	1000 ms	1000 ms

PORT	USER	AUX 1	MODEM/AUX 2
BAUD RATE	38400	9600	9600
PARITY	N	N	N
DATA BITS	8	8	8
STOP BITS	1	1	1
FLOW CONTROL	NONE	NONE	NONE

PROGRESS RAIL SERVICES
A Caterpillar Company

DATE.06-24-25
CSX#,PA2021009
PRS/AMJ/SAF

= OUT
= IN

CP-2 TO CP-97

EAST 10TH STREET 524 335N MP. QDY-1.46

REVISIONS
06-14-05 GET PA1999074A, PA1999074B, PA1999075A, PA2002030, PA2002031 & PA2002032

CSX TRANSPORTATION
RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS

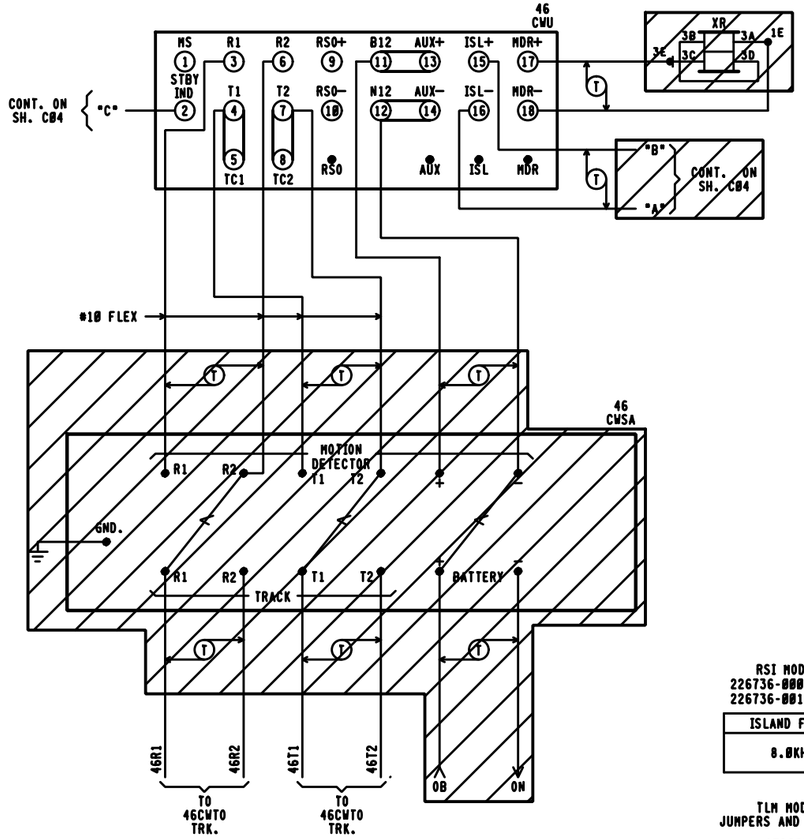
EAST 10TH STREET 524335N
ERIE YARD INDUSTRIAL TRACK
HAWK RECORDER PROGRAM
ERIE, PA MP. QDY-0.47

DESIGNED	DIGITIZED	CHECKED	DATE
GET/WPB	GET/CSM	GET/FAP	05-17-02

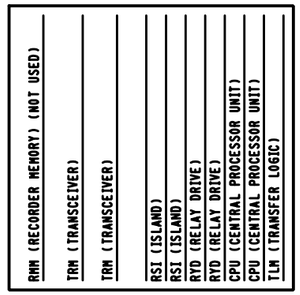
DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
3515-0015	1-7		QDY00560	101	QDY00047	C05

REV. 11-12-01

QDY00146 PMD3R.C04



46CWU
PMD-3R MODULES REQUIRED

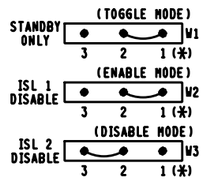


FRONT VIEW

RSI MODULE
226736-000 8.0KHZ
226736-001 4.0KHZ

ISLAND FREQ.
8.0KHZ

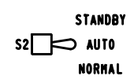
TLM MODULE
JUMPERS AND SWITCHES

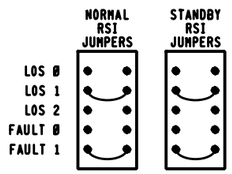


NOTE:
PIN 1 IS IDENTIFIED BY ASTERICK BELOW IT.
(☆)= MAY BE SET PER FIELD CONDITIONS.

MINUTE TIMEOUT SWITCH

SETTING	(☆) 9 MINUTES





CABINET SWITCHES
THESE SWITCHES ARE LOCATED ON MOTHERBOARD

MASTER/SLAVE

SYSTEM CONFIGURATION				
S6 & S7 DIP SWITCH POSITIONS				
SWITCH	1	2	3	4
SWITCH POSITION	OFF	ON	OFF	OFF
APPROACH.	NORMAL		(NOT USED)	

FREQUENCY SELECT						
NORMAL	S2 & S3 DIP SWITCH POSITIONS 753 HZ					
	SWITCH	1	2	3	4	5
	SWITCH POSITION	ON	OFF	ON	OFF	ON
STANDBY	S4 & S5 DIP SWITCH POSITIONS 753 HZ					
	SWITCH	1	2	3	4	5
	SWITCH POSITION	ON	OFF	ON	OFF	ON

= SHOWN ELSEWHERE

ALL ELSE OUT
THIS SHEET IS VOID
WHEN AS IN SERVICED.

PROGRESS RAIL SERVICES
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PRS/ANJ/SAF

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CSX TRANSPORTATION
RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS

CP-2 TO CP-97
ERIE YARD INDUSTRIAL TRACK
CROSSING DETECTION CIRCUITRY
EAST 10TH STREET 524 335N MP. QDY-1.46

DESIGNED	DIGITIZED	CHECKED	DATE
GET/WPB	GET/CSM	GET/FAP	05-17-02

DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
3515-0015	1-3	1-4	QDY00146	C02	QDY00146	C01

REV. 11-12-01
PMD3R.C01

46CWU

TRM LOCAL PARAMETERS PMD-3R DESIGN CARD

		DEFAULTS & /OR STYLE	FIELD RECORD
OPERATING PROGRAM PROG	VERSION AND COMPILE DATE	35.0 MM/DD/YY	
SYSTEM MONITOR PROGRAM EPRM	VERSION AND COMPILE DATE	20.2 MM/DD/YY	
ADJUSTMENT	RANGE	DEFAULT	TRACK 1
#1 RX	100 IS INTENDED	NA	
#2 PH (PHASE)	INTENDED ABOVE 32 (NOT ADJUSTABLE)	NA	
#3 CW / MD	CW OR MD NOT ADJUSTABLE FROM MD TOWARD CW (SEE TCR 430-01 FOR CONSTRAINTS)	MD	MD
#4 UNI/BI (IF CW IS CHOSEN IN #3)	UNI OR BI	BI	NA
#5 LIA (IF CW IS CHOSEN IN #3)	-9 TO +9	LIA=0	NA
#6 WT (IF CW IS CHOSEN IN #3)	23 TO 99	WT=99	NA
#7 TC	WHEN IN CONFORMANCE WITH PMD-3R MANUAL, ADJUST TC FOR A TRANSMITTER CHECK MONITOR VALUE LESS THAN 470	NA	
#8 B (BALLAST COMPENSATION)	50 TO 250 (FIELD ADJUSTMENT - ADJUST ONLY WHEN IN CONFORMANCE WITH DATA ACCUMULATED AT THIS SITE AND IN COMPLIANCE WITH SUPERVISOR INSTRUCTIONS & PMD-3R MANUAL)	NA	
#9 PC (PHASE COMPENSATION)	0 TO +10 (FIELD ADJUSTMENT - ADJUST ONLY WHEN IN CONFORMANCE WITH SUPERVISOR INSTRUCTIONS & PMD-3R MANUAL)	PC=0	
#10 FREQ	REFERENCE, NOT ADJUSTABLE FROM MENU	NA	NA
#11 FS-T (FALSE SHUNT TIMER)	ENTRANCE TO SUDDEN FALSE SHUNT SUB-MENU	NA	NA
#12 FR (FALSE SHUNT % OF RX APPROACH)	0 TO 80 NOT ADJUSTABLE FROM ZERO UNTIL AFTER STRICT DESIGN REVIEW FOR SITE APPLICATION CONFLICTS, FR=0 MEANS DISABLED (SEE TCR 430-01 FOR CONSTRAINTS)	FR=0	FR=0
#13 FT (FAULT TIMER)	0 TO 99 MINUTES (FACTORY DEFAULT IS 10)	FT=10	NA
#14 AR-T (APPROACH RELEASE TIMER)	ENTRANCE TO SUB-MENU FOR RESIDUAL FALSE SHUNT STARTED DURING TRAIN PASSAGE	NA	NA
#15 AR (FALSE SHUNT % OF RX APPROACH)	0 TO 80 NOT ADJUSTABLE FROM ZERO UNTIL AFTER STRICT DESIGN REVIEW FOR SITE APPLICATION CONFLICTS AR=0 MEANS DISABLED (SEE TCR 430-01 FOR CONSTRAINTS)	AR=0	AR=0
#16 AT (FAULT TIMER)	0 TO 99 MINUTES (FACTORY DEFAULT IS 10)	AT=10	AT=10
#17 HS (HIGHEST STABLE R VALUE)	REFERENCE, NOT ADJUSTABLE FROM MENU	NA	NA
#18 LP (LOWEST STABLE PHASE)	REFERENCE, NOT ADJUSTABLE FROM MENU	NA	NA
#19 SD (SELF DIAGNOSTICS)	REFERENCE, NOT ADJUSTABLE FROM MENU, BUT MENU CAN REVIEW, THEN CLEAR DIAGNOSTIC CODES	NA	NA
#20 REC (TRAIN RECORD DISPLAY)	REFERENCE, SEQUENTIAL DISPLAY OF PREVIOUS WARNING TIME RECORDS (NO ADJUSTMENT)	NA	NA
#21 PRN (PRINTER/LAPTOP READY)	STARTS DOWNLOAD OF INTERNAL TRAIN EVENT LOG WHEN SERIAL PORT CABLE CONNECTED	NA	NA
#22 LSP (LOCAL SERIAL PORT)	ENTRANCE TO SUB-MENU FOR SETTING SPEED OF SERIAL PORT DOWNLOADS	NA	NA
#23 © (BAUD RATE)	BAUD RATE OF 38,400 IS 384 AND DEFAULT	©=384	©=384
#24 DB (DATA BITS)	7 OR 8 8 IS DEFAULT	DB=8	DB=8
#25 PA (PARITY)	O, E, OR N N IS DEFAULT	PA=N	PA=N
#26 AR (AUTO RX)	UP OR DN DN IS FACTORY DEFAULT (FIELD ADJUSTMENT - ADJUST TO "UP" ONLY WHEN BC HAS BEEN PREVIOUSLY STABILIZED THROUGH ADJUSTMENT, AND ONLY WHEN IN CONFORMANCE WITH SUPERVISOR INSTRUCTIONS AND PMD-3R MANUAL)	AR=DN	AR=DN
#27 RX (POTENTIOMETER VALUE)	REFERENCE, DISPLAY ONLY	NA	NA
#28 VERS (PROGRAM VERSION)	REFERENCE, SEQUENTIAL DISPLAY OF EPROM AND SOFTWARE VERSIONS	NA	NA

ALL OUT
THIS SHEET IS VOID
WHEN AS IN SERVICED.

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CSX TRANSPORTATION
RAIL TRANSPORT GROUP ENGINEERING
COMMUNICATIONS AND SIGNALS

CP-2 TO CP-97
ERIE YARD INDUSTRIAL TRACK
DETECTION DEVICE PROGRAM
EAST 10TH STREET 524 335N MP. QDY-1.46

DESIGNED	DIGITIZED	CHECKED	DATE
GET/WPB	GET/CSM	GET/FAP	05-17-02

DRAWING	SHEET NO	NEXT SH	NEXT FILE	NEXT SH	FILE	SHEET
3515-0015	1-4	1-5	QDY00146	C03	QDY00146	C02