Public Utilities Commission of Ohio

Memo

To: Docketing Division

From: Jill Henry, Chief, Rail Division

Cc: PUCO Legal Department

Date: 5/27/2021

Re: PUCO Case No. 21-635-RR-FED- In the Matter of a Request for the Installation of Active Warning Devices at the Chicago Ft. Wayne & Eastern Railroad Crossing, Pevee Road/TR 237, DOT#532-686H in Allen County, Ohio.

On January 7, 2020, the Ohio Rail Development Commission (ORDC) authorized funding for Chicago Ft. Wayne & Eastern Railroad to install lights and gates at Pevee Road/TR 237, DOT#532-686H, in Allen County, Ohio. The crossing was surveyed, on July 26, 2019, and found to warrant the upgrade. The electric utility provider for this crossing is Mid-Ohio Energy. The service territory changes just south of the crossing with AEP-Ohio.

The project will be paid for with federal funds and is actual cost. The plans and estimates in the amount of \$214,260 have been approved. Construction may commence at once. **Staff requests a Finding & Order with completion of the project in nine months.** Staff requests that the following language be incorporated in the Finding & Order:

It is expected that all work necessary for FHWA acceptance of the warning devices will be completed by the in-service due date and that the <u>railroad will be responsible</u> for this work. This work includes, but is not limited to:

- Any ancillary work to make the warning devices function as designed and visible to the roadway user, and
- MUTCD compliance, including minor roadway work if necessary.

Please serve the following parties of record:

Genesee & Wyoming Railroad Services, Inc. Dale Summers AVP Engineering Northern 4349 Easton Way Suite 110 Columbus, OH 43219

Ohio Rail Development Commission Allen Bell Manager Grade Crossing Safety Programs 1980 West Broad Street Mail Stop #3140 Columbus, OH 43223

Jackson Township Trustees Allen County P.O. Box 7158 Lafayette, OH 45854

Allen County Engineer Brion Rhodes County Engineer 1501 North Sugar Street Lima, OH 45801

Mid-Ohio Energy

OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO: John Williams, Director, Transportation Department, PUCO

FROM: Allen Bell, Manager, Grade Crossing Safety Programs, ORDC

BY: Don Damron, ORDC Safety Section

SUBJECT: TR 237, Pevee Rd in Allen County

DOT# 532686H PID# 111182

DATE: April 22, 2021

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on July 26, 2019. The Ohio Rail Development Commission (ORDC) attended the review. The ORDC recommends the upgrade of the warning devices to flashing lights and roadway gates. Copies of the diagnostic review form and the plan and estimate are attached. The ORDC email concerning a change to the diagnostic team recommendation is also attached to the diagnostic form.

PE has already been provided by the railroad. ORDC accepts the site plans and estimates as provided. Please issue a construction-only order for the project outlined above. ORDC recommends a nine (9) month construction timeline. This authorization is made with the stipulation and understanding that an approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit.

It is expected that all work necessary for FHWA acceptance of the warning devices will be completed by the in-service due date and that the <u>railroad will be responsible</u> for this work. This work includes, but is not limited to:

- any ancillary work to make warning devices function as designed and visible to the roadway user, and
- MUTCD compliance including minor roadway work if necessary.

Thank you for your assistance with these matters.

Attachment: CDL Railroad Signal Division Proposal

CDL Railroad Crossing Layout and Circuitry Plan

PUCO Letter Agreement

Diagnostic Review Team Survey Construction Authorization

c: Jill Henry, Rail Specialist, PUCO ORDC Project Manager (file)



Mike DeWine, Governor Jon Husted, Lt. Governor

Mark Policinski, Chair

April 22, 2021

Chicago Ft. Wayne & Eastern Railroad Mr. Jarrod Rishell AVP Engineering Northern Region Genesee & Wyoming Inc. 4349 Easton Way, Suite 110 Columbus, OH 43219

RE: Construction Authorization, TR 237, Pevee Rd., Allen Count DOT# 532686H

PID# 111182

CFER MP QF 250.13; Railroad # 19CFER25R

Dear Mr. Rishell:

The plan dated 1/25/2021 and estimate dated 3/29/2021 for the referenced project has been reviewed and is acceptable. The Chicago Fort Wayne & Eastern (CFER) may proceed with the construction of the proposed grade crossing warning system in accordance with the abbreviated plan. Construction may include but is not limited to circuitry design, installation of service poles, procurement of materials and signal construction.

The estimate of \$214,260.00 is acceptable and reimbursement is limited to \$214,260.00. This authorization is made with the stipulation and understanding that the approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit. Additional costs must be approved in writing by the Ohio Rail Development Commission (ORDC) prior to being incurred. Emergency verbal authorizations by ORDC may be permitted and will be confirmed by ORDC in writing within ten (10) business days of the verbal approval.

This authorization is contingent upon the IORY accepting the following instructions:

1. CRER's project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to Don Damron, ORDC, email don.damron@dot.ohio.gov, and to the Public Utilities Commission of Ohio at Jill.henry@puc.state.oh.us. CFER's project foreman will also notify the same of any stops and re-starts of the work activity and of the date work was completed for the project.

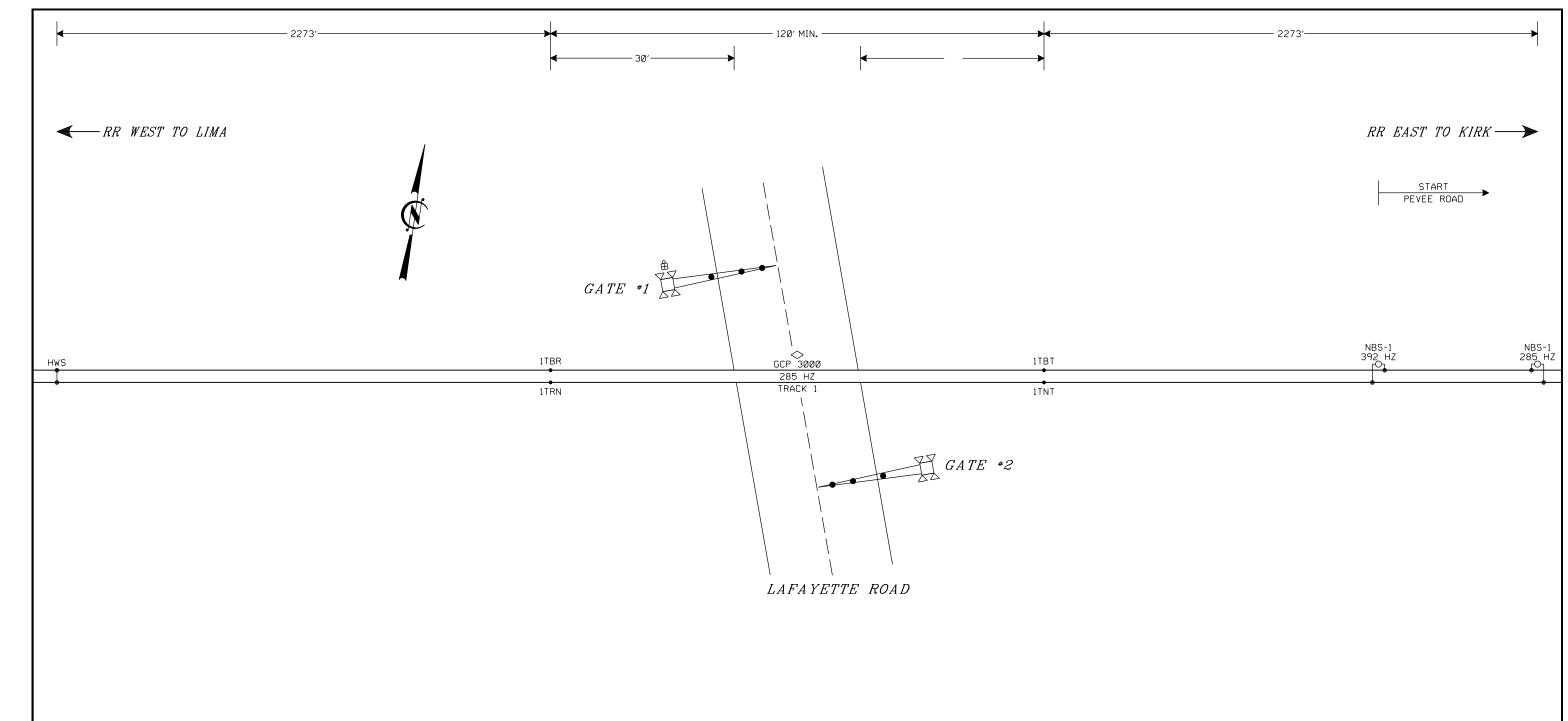
- 2. CFER will arrange for utilities to be located at the project site by the Ohio Utilities Protection Service (OUPS) prior to any construction activities at the site. Utilities that are not participating members of the service must be contacted directly by CFER.
- 3. CFER's project foremen will notify Don Damron at 614-917-8466 (mobile) or don.damron@dot.ohio.gov (email) of any changes in the scope of work, cost overruns, material changes, etc. which are not included in the approved plan and estimate, and secure approval of same before the work is performed.
- 4. Open cut of roadways is *not permitted* except in unusual circumstances and must be coordinated with the local highway authority and preapproved by ORDC.
- 5. CFER will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed ODOT Purchase Order to reference when billing.
- 6. CFER will furnish two (2) copies of the final all-inclusive bill to ORDC stating the exact dates of starting and completing work, the initial and final dates of construction and location where the accounts may be audited.
- 7. This installation will include any ancillary work to make the warning devices function as designed and meet MUTCD.

Thank you for your assistance with these matters.

Sincerely,

Donald J Damron Project Manager

C: Randall Schumacher, Chief, Motor Carrier & Rail Enforcement, PUCO Jill Henry, Rail Specialist, PUCO Heather Hamilton, ORDC ORDC (file)



APPROACH CIRCUIT DISTANCE CALCULATION	
	TRACK 1
BASE WARNING TIME	27 SEC
PLUS TIME FOR CLEARANCE DISTANCE > 35'	Ø SEC
EQUALS PLANNED WARNING TIME	27 SEC
PLUS TIME FOR EQUIPMENT RESPONSE	4 SEC
PLUS TIME FOR TRAFFIC PRE-EMPTION	Ø SEC
EQUALS CIRCUIT APPROACH TIME	31 SEC
TIMES MAXIMUM PLANNED TRAIN SPEED	50 MPH
TIMES RATIO OF FEET PER SECOND TO MILE PER HOUR	22/15
EQUALS APPROACH CIRCUIT DISTANCE WITH ANY FRACTIONAL VALUE INCREASED TO FULL UNIT	2273 FT

CABLE TABULATION

HOUSE TO GATE #1	17C (2)#6, (8)#9, (7)#14
HOUSE TO GATE #2	17C (2)#6,(8)#9,(7)#14
HOUSE TO AC SERVICE	
HOUSE TO TX+ & TX- RAIL CONNECTIONS	2C#6 TW
HOUSE TO RX+ & RX- RAIL CONNECTIONS	2C#6 TW



NOT TO SCALE

REVISIONS REDRAWN IN CAD A.P.D. 01-04-21

THE OPERATION OF THE CIRCUITS AND EQUIPMENT REPRESENTED HEREIN CANNOT BE FULLY CHECKED UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM, OR AN EFFECTIVE SUBSYSTEM, SUCH SYSTEM OR SUBSYSTEM WUST BE GIVEN COMPLETE CIRCUIT AND OPERATIONAL TESTS BEFORE BEING PLACED IN REGULAR OPERATION.



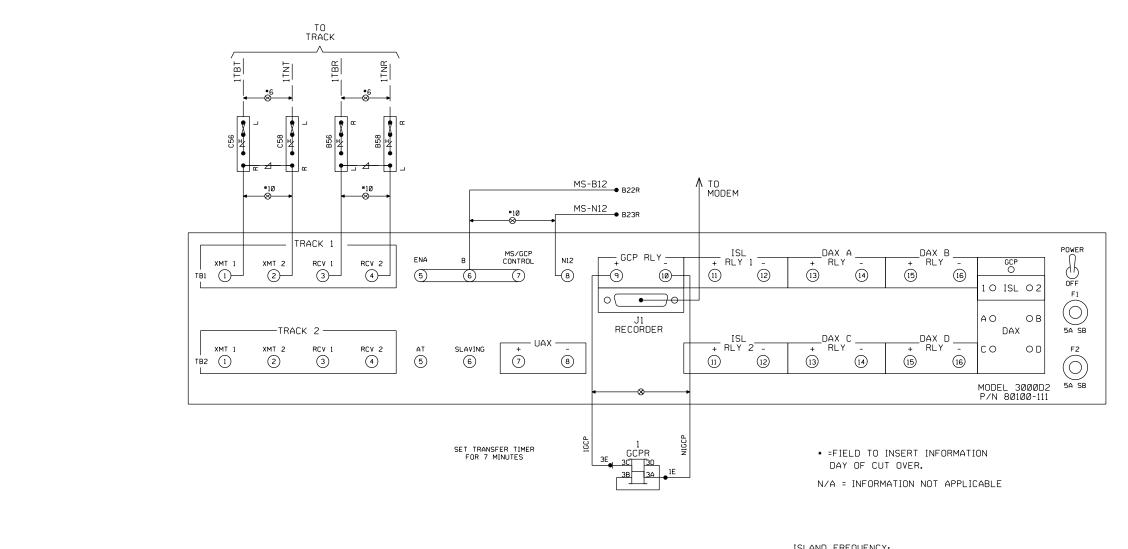
DATE: Ø1-Ø4-21

CHICAGO, FORT WAYNE & EASTERN RR

CROSSING TRACK PLAN LAFAYETTE ROAD LAFAYETTE, OHIO

DOT# 532 688W MILEPOST# 250.77

DRAWING NO. 532688W SHEET 1 OF 9



ISLAND FREQUENCY:

TRACK 1: 7.1 KHz.

THIS UNIT TO BE EQUIPPED WITH "F" LEVEL SOFTWARE ON PROCESSOR MODULE (80014) AND DATA RECORDER MODULE (80015)

PROMPT		RESPONSE
NUMBER OF TRACKS		1 TRACK
FREQUENCY (MS/GCP)		285 HZ
UNI/BIDIRECTIONAL	T1	BIDIRECTIONAL
UNI/BIDIRECTIONAL	T2	N/A
XMIT LEVEL	T1	MED
XMIT LEVEL	T2	N/A
PREDICTOR/MOTION SENSOR		
		PREDICTOR
PREDICTOR/MOTION SENSOR		N/A
WARNING TIME SELECTED		31 SEC.
WARNING TIME SELECTED	T2	N/A
APPROACH DIST. SELECTED		2566 FT.
APPROACH DIST. SELECTED	T2	N/A
APPROACH DIST. COMPUTED	T1	* FT.
APPROACH DIST. COMPUTED	T2	N/A
UAX PICKUP DELAY(0=OFF)		Ø-SEC.
ENA/UAX2 PICKUP DELAY(Ø	=FNA)	25-SEC.
NUMBER OF DAX'S		0
ISLAND DISTANCE	T1	• FT.
ISLAND DISTANCE	T2	N/A
DAX A TRACK ASSIGNMENT		N/A
DAX A DISTANCE (Ø=PREEM	PI)	N/A FT.
DAX A WARNING TIME		N/A SEC.
DAX B TRACK ASSIGNMENT		N/A
DAX B DISTANCE (0=PREEM	PT)	N/A FT.
DAX B WARNING TIME		N/A SEC.
DAX C TRACK ASSIGNMENT		N/A
DAX C DISTANCE (Ø=PREEM	IPT)	N/A FT.
DAX C WARNING TIME		N/A SEC.
DAX D TRACK ASSIGNMENT		N/A
DAX D DISTANCE (Ø=PREEM	IPT)	N/A FT.
DAX D WARNING TIME	17	N/A SEC.
SLAVING MASTER/SLAVE		
		MASTER
PASSWORD ENABLED		DISABLED
RECORDER INSTALLED		INSTALLED
RS-232-C BAUD RATE		
RS-232-C DATA BITS		
RS-232-C STOP BITS		
RS-232-C PARITY		
DATE(E.G., MON 16 NOV 1987	7)	*
TIME(E.G., 11:25:43 AM)		*
DAYLIGHT SAVINGS		ON/OFF
EXPANDED PRO	GRAM	
SWITCH TO MS	T1	
SWITCH TO MS	T2	_
TRANSFER DELAY MS TO C		
TRANSFER DELAY MS TO C	CD T	N/A
TRANSFER DELAT MS TO C	ILP IZ	
PRIME PREDICTION OFFSET		
PRIME PREDICTION OFFSET	T2	
PICKUP DELAY PRIME		15-SEC.
PICKUP DELAY DAX A		15-SEC.
PICKUP DELAY DAX B		15-SEC.
PICKUP DELAY DAX C		15-SEC.
		15-SEC.
PICKUP DELAY DAX D		
PICKUP DELAY DAX D	T1	SET BY SYSTEM
COMPENSATION VALUE	T1	SET BY SYSTEM
COMPENSATION VALUE COMPENSATION VALUE	T2	N/A
COMPENSATION VALUE		N/A 4 WIRES

SYSTEM PROGRAMMING PARAMETERS

<u>N12</u>	XPR 30 3c 3E 1E 3A 3B	ХР	GCPR 12	L 10: R B12
A34L •N12	MOUNTED ON END OF HOUSE TEST SWITCH 02-069829	хра		

REVISIONS

1
REDRAWN IN CAD
A.P.D.
Ø1-04-21

THE OPERATION OF THE CIRCUITS AND EQUIPMENT REPRESENTED HEREIN CANNOT BE FULLY CHECKED UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM, OR AN EFFECTIVE SUBSYSTEM, SUCH SYSTEM OR SUBSYSTEM WUST BE GIVEN COMPLETE CIRCUIT AND OPERATIONAL TESTS BEFORE BEING PLACED IN REGULAR OPERATION.



CHICAGO, FORT WAYNE & EASTERN RR

(CFER)

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DESIGNED: A.P.D.
CHECKED: --DATE: 01-04-21

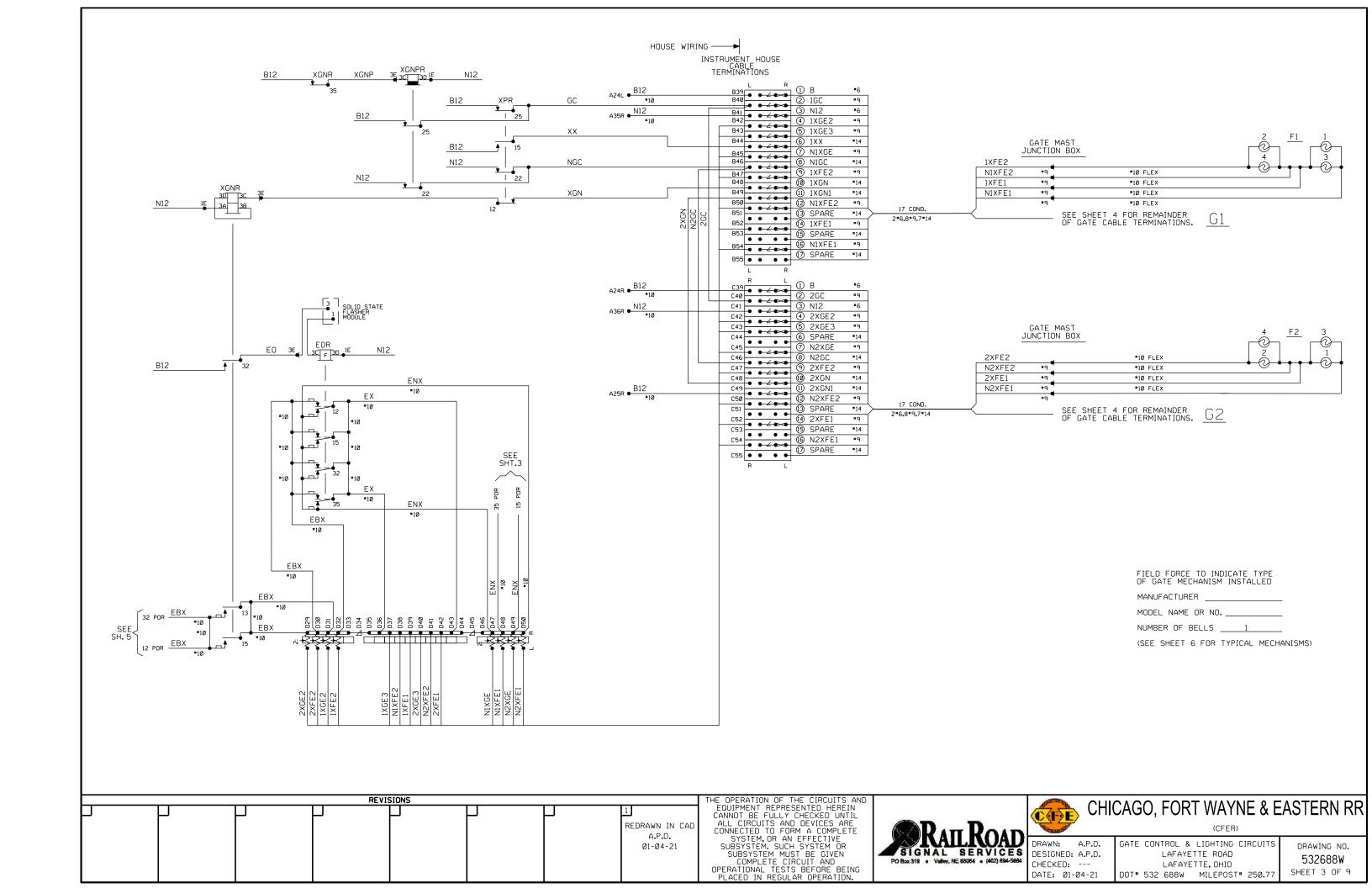
GCP 3000 CIRCUITS

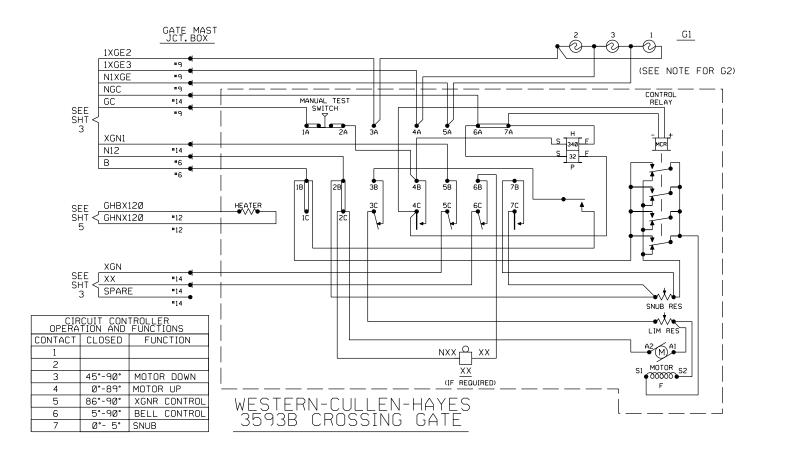
LAFAYETTE ROAD

LAFAYETTE, OHIO

DOT# 532 688W MILEPOST# 250,77

DRAWING NO. 532688W SHEET 2 OF 9





REVISIONS REDRAWN IN CAD A.P.D. 01-04-21

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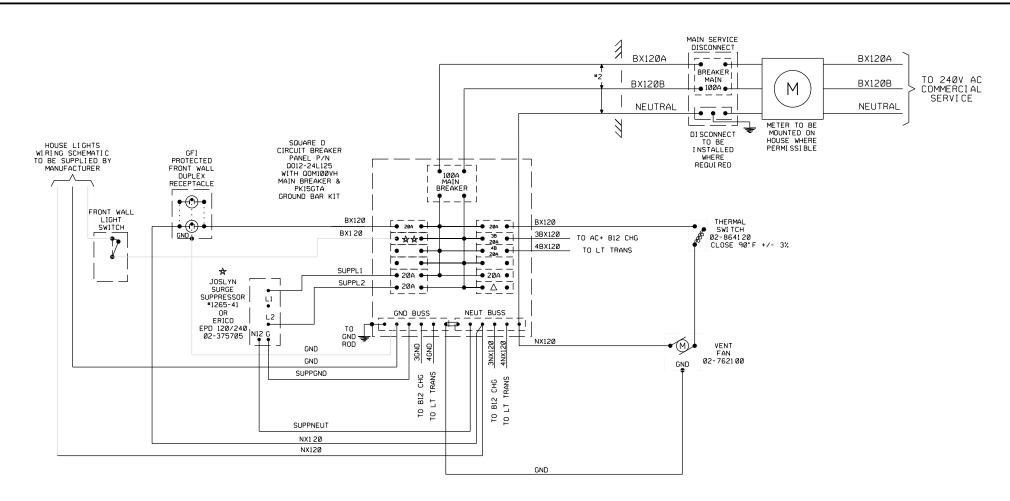
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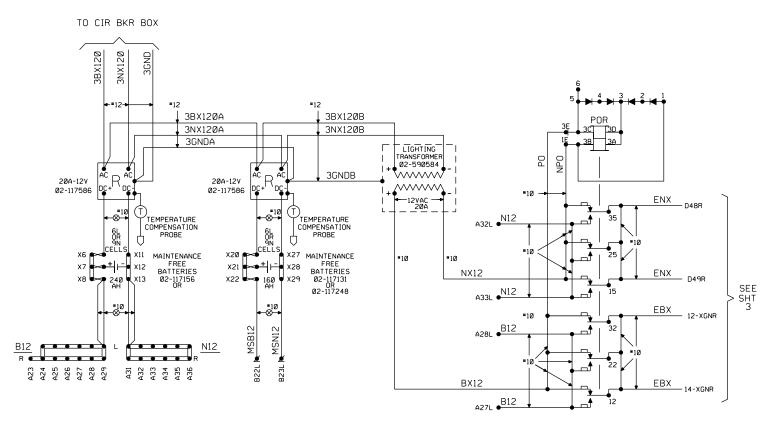
CHICAGO, FORT WAYNE & EASTERN RR CIPE

GATE MECHANISM

LAFAYETTE ROAD LAFAYETTE, OHIO DOT# 532 688W MILEPOST# 250.77

DRAWING NO. 532688W SHEET 4 OF 9





NOTES:

- 1) ★= SUPPRESSOR TO BE LOCATED AS CLOSE AS POSSIBLE TO MAIN BREAKER, LEADS TO BE TWISTED WHENEVER POSSIBLE.
- 100A SERVICE REQUIRES #2 WIRE. 60A SERVICE REQUIRES #6 WIRE. 2)
- 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.
- 480V AC POWER SOURCE MUST BE PROTECTED
- BY 30A FUSING AT FEED END. LINE SERVICE DISCONNECT DOES NOT KILL LOCATION POWER. SHOP TO PROVIDE
- 8)★★ = 20A GFI BREAKER
 - ⊗ = TWISTED PAIR





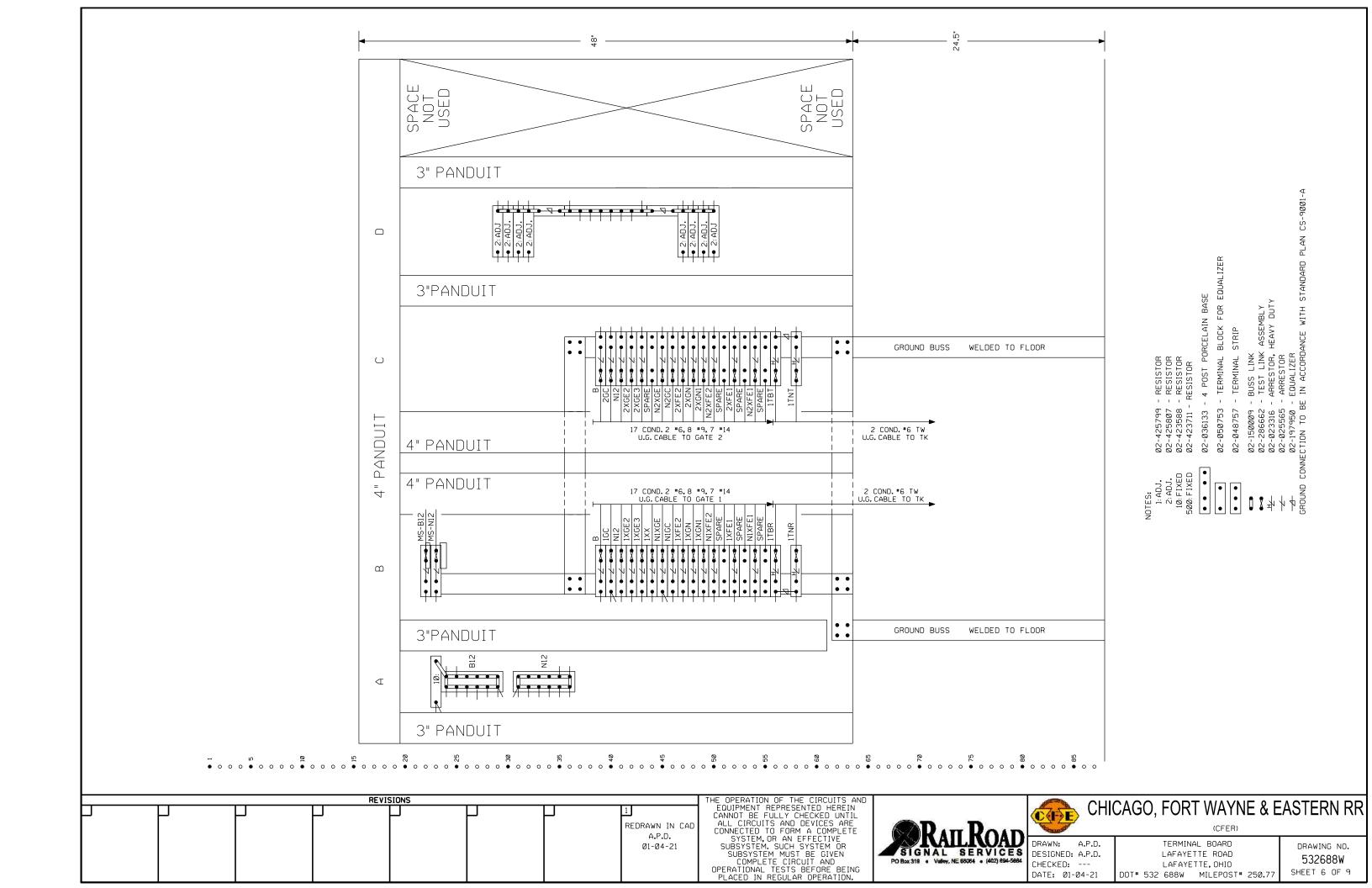
POWER DISTRIBUTION DESIGNED: A.P.D. LAFAYETTE ROAD CHECKED: ---LAFAYETTE, OHIO DATE: 01-04-21 DOT# 532 688W MILEPOST# 250.77

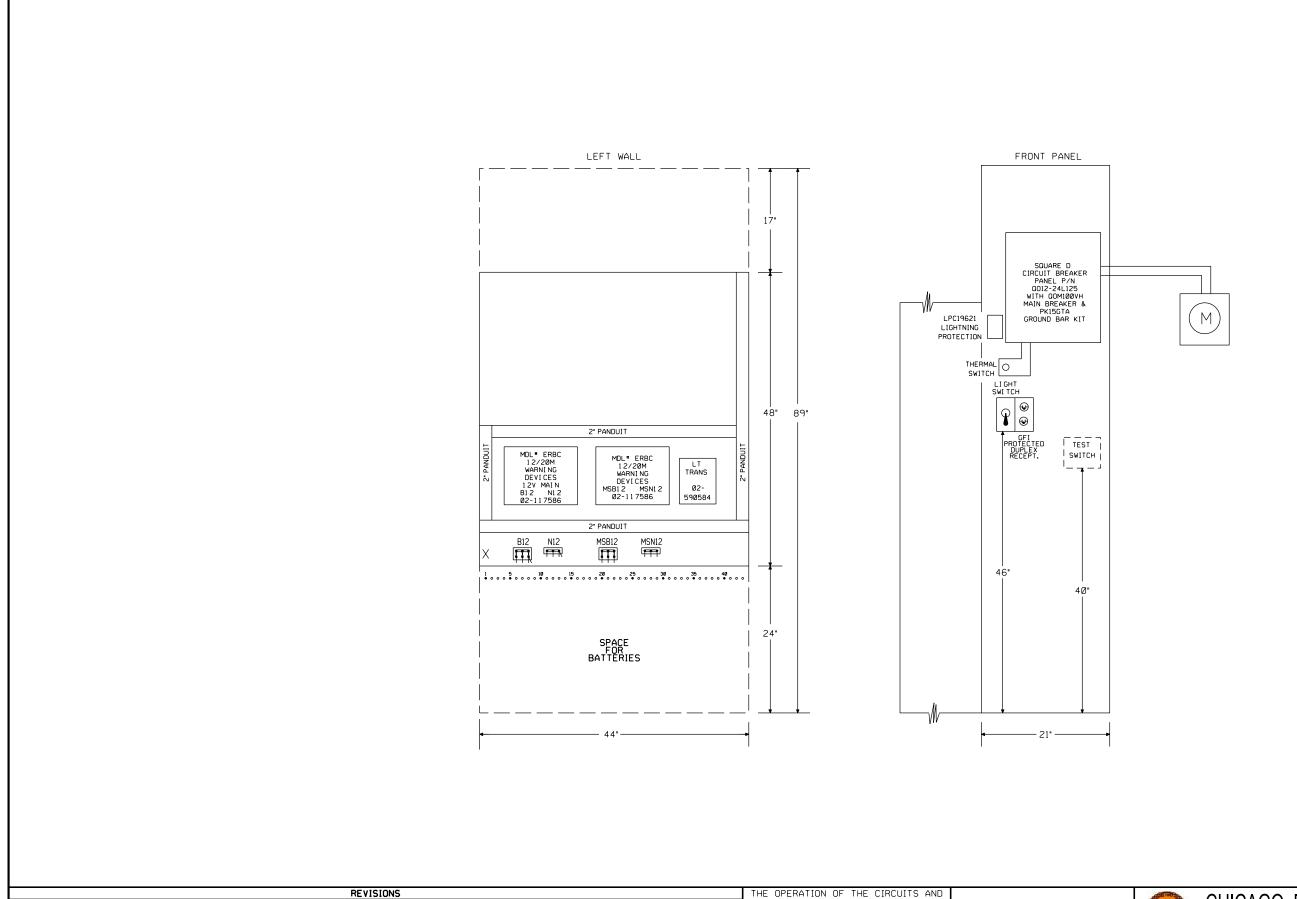
DRAWING NO. 532688W SHEET 5 OF 9

REDRAWN IN CAD A.P.D. 01-04-21

REVISIONS

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CANNOT BE FULLY CHECKED UNTIL
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SUBSYSTEM MUST BE GIVEN
COMPLETE CIRCUIT AND
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A.P.D.

01-04-21

THE OPERATION OF THE CIRCUITS AND EQUIPMENT REPRESENTED HEREIN CANNOT BE FULLY CHECKED UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM, OR AN EFFECTIVE SUBSYSTEM. SUCH SYSTEM OR SUBSYSTEM WIST BE GIVEN COMPLETE CIRCUIT AND OPERATIONAL TESTS BEFORE BEING PLACED IN REGULAR OPERATION. SIGNAL SERVICES
PO Box 319 • Vulley, NE 68064 • (402) 634-5864

DRAWN: A.P.D.

DESIGNED: A.P.D.

CHECKED: ---

DATE: 01-04-21

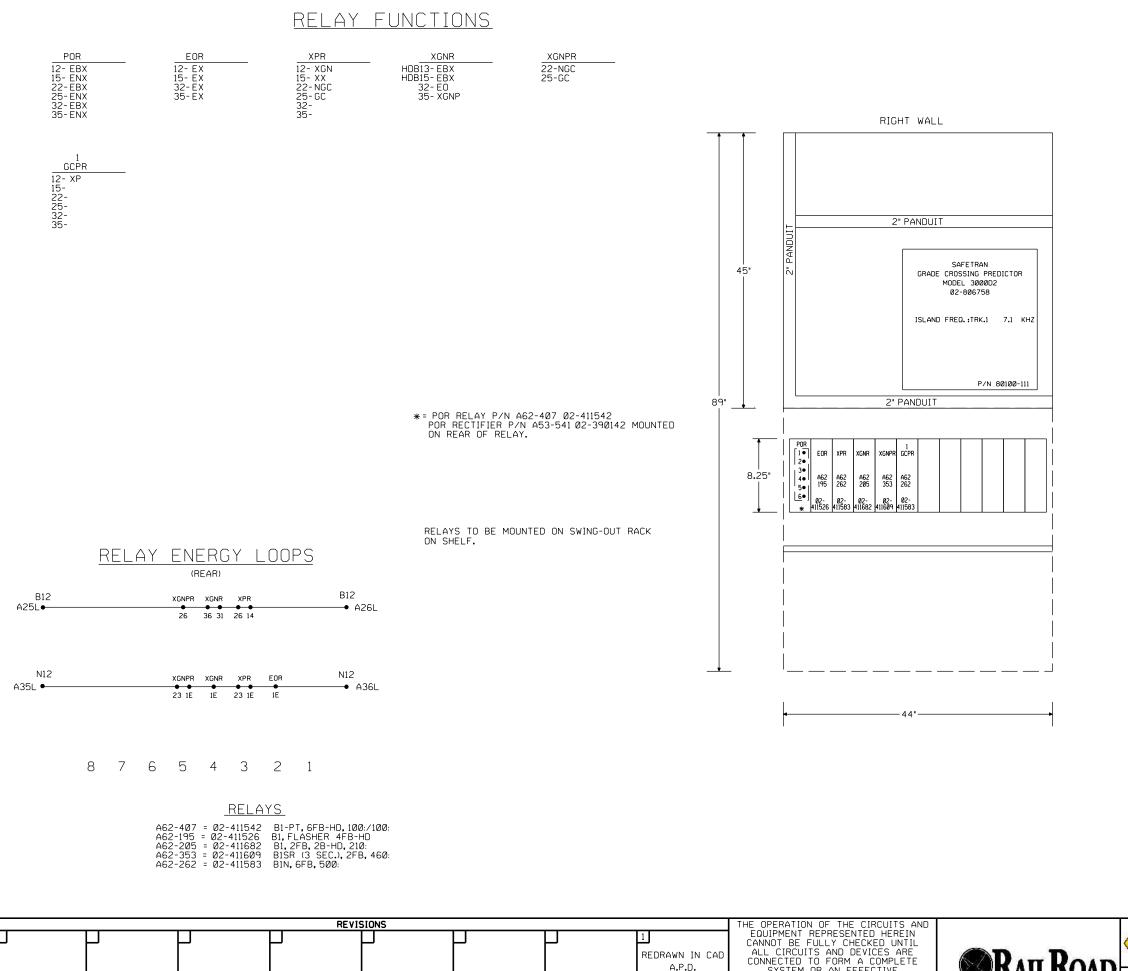
CHICAGO, FORT WAYNE & EASTERN RR

(CFER)

FRONT AND LEFT WALL LAYOUT LAFAYETTE ROAD LAFAYETTE, OHIO

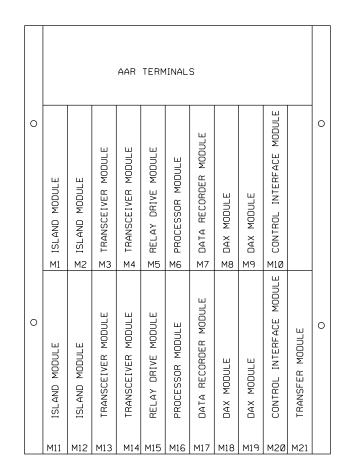
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DRAWING NO. 532688W SHEET 7 OF 9



REQUIRED MODULES

THE BOTTLES THE BOTTLES		
PART NUMBER AND MODULE NAME	UPPER BAY	LOWER BAY
80011-F (HZ) ISLAND MODULE	M1	M11
80012 TRANSCEIVER MODULE	М3	M13
80013 RELAY DRIVE MODULE	M5	M15
80014 PROCESSOR MODULE	М6	M16
80015 DATA RECORDER MODULE	M7	M17
80016-1,-2 DAX MODULE	NONE	NONE
80020 CONTROL MODULE INCLUDES 80017 KEYBOARD DISPLAY INTERFACE	M1Ø	M2Ø
80028 TRANSFER MODULE		M21



CARDFILE LAYOUT

THE OPERATION OF THE CIRCUITS AND EQUIPMENT REPRESENTED HEREIN CANNOT BE FULLY CHECKED UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM, OR AN EFFECTIVE SUBSYSTEM, SUCH SYSTEM OR SUBSYSTEM WUST BE GIVEN COMPLETE CIRCUIT AND OPERATIONAL TESTS BEFORE BEING PLACED IN REGULAR OPERATION.

01-04-21

SIGNAL SERVICES Box 319 • Valley, NE 68064 • (402) 694-5664 DESIGNED: A.P.D. CHECKED: ---

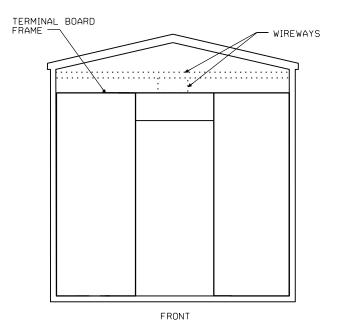
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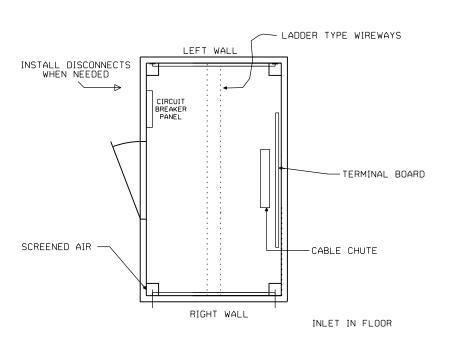
DATE: 01-04-21

CHICAGO, FORT WAYNE & EASTERN RR

RIGHT SIDE OF HOUSE LAFAYETTE ROAD LAFAYETTE, OHIO DOT# 532 688W MILEPOST# 250.77

DRAWING NO. 532688W SHEET 8 OF 9





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THE OPERATION OF THE CIRCUITS AND EQUIPMENT REPRESENTED HEREIN CANNOT BE FULLY CHECKED UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM, OR AN EFFECTIVE SUBSYSTEM, SUCH SYSTEM OR SUBSYSTEM MUST BE GIVEN COMPLETE CIRCUIT AND OPERATIONAL TESTS BEFORE BEING PLACED IN REGULAR OPERATION.



CEE	CHICAGO,	FORT	WAYNE	& EAS	TERN	RR

(CFER)

DRAWN: A.P.D. HOUSE
DESIGNED: A.P.D. LAFAYET
CHECKED: --DATE: Ø1-Ø4-21 DOT# 532 688W

HOUSE LAYOUT LAFAYETTE ROAD LAFAYETTE,OHIO DOT# 532 688W MILEPOST# 250.77

DRAWING NO. 532688W SHEET 9 OF 9



Location/Description	QTY	
Pevee Road		
Control Shelter		
HSE 6X6 AL S/L SKR101 L/EPD/KY	1	EA
SYS XP4 1TR VPM-3 W/UCI-3, 2-XTI-1	1	EA
ASSY MDSA-1XS	1	EA
ASSY IXS XIP-20B CROSSING INTERFAC~	1	EA
KIT HARDWARE WALL MT BRKT XIP-20B	1	EA
CABLE XIP-20 1 12FT	1	EA
CABLE XIP-20 2 12FT	1	EA
PROT AC LINE 230V SP20-3	2	EA
ELC 12/20 W/10' LEAD	1	EA
ELC 12/40 W/10' LEAD	1	EA
MICRO DATA ANLZ II/DTMF RA PKG	1	EA
ASSY 4 POST TERM BLOCK	28	EA
ASSY AGA-1	28	EA
ASSY AGE-2 HD	2	EA
RELAY COMP, B1	1	EA
PLUGBOARD COMPLETE, B1 RELAY MTG KIT	1	EA
"POST,TERMINAL VOLTAGE TEST 1E POST"	1	EA
TEST LINK W/PLT & INSUL	88	EA
RLY DPDT 240VAC 10A OCT W/LAMP	2	EA
SCKT RLY 8-PIN OCT SCREW PNLMT	2	EA
WIRE 14AWG/19 TC EPR/PVC BLU	200	FT
WIRE 16AWG/19 TC EPR/PVC BLU	500	FT
WIRE 10AWG/19 TC EPR/PVC BLU	450	FT
WIRE 6AWG/19THHN BLK	120	FT
WIRE 6AWG/19 THHN RED	120	FT
WIRE 6AWG/19 THHN GRN	20	FT
ASSY 2WAY TERM BLK W/AAR HARD	10	EA
ASSY TERM STRIP DBL POST 12	10	EA
ASSY SINGLE ROW TERM 12 POST	1	EA
NUT INSULATED HARMON	24	EA
LIGHT POWER OFF LED W/WAGO CON	2	EA
PLATE MOUNTING VELCORP PO LT	1	EA
GROUND POST, 5/16	3	EA
KIT SM PRTS/TAGS GENERIC	1	EA
LABEL, DANGER 240 V, 1.75 X 2.	1	EA
SIGN, HSE ID	1	EA
DIGITAL RECORDER SYS. W/5 CAMERAS & UPS	1	EA
Field Material	1	
FND SIG 48"H STL 11-11/16"BS	2	EA
GATE ASSY 3593E CTWT 16-32'	2	EA
HEATER GATE MECH 115VAC WCH	2	EA
BASE 5" SPLIT JCT BOX DBL	2	EA
MAST AL 5	2	EA
IVIASI ALS	Z	LA



CATE MEEDED CM1000 3W DITAL DID	2	EA
GATE KEEPER SK1000-2W DUAL DIR		
HIGH WIND BKT W/5"HDW LINCOLN	2	EA
GATEARM 16-24' UHI VERT W/LED	2	EA
GATEARM SLEEVE ALUM 2' REC	2	EA
DIODE GATEARM TIP LIGHT REC	2	EA
SIGN XING HI NO MTG HDW	2	EA
CROSSARM 2W L/LED 24"H/B 5" 06	2	EA
LENS LED FLASHING 12" RED -H7	8	EA
BELL ELECTRONIC CROSSING 4/5"	1	EA
PINNACLE 5 MCHINED W/SETSCRW	1	EA
CABLE UG 3C4 7X W/GROUND	80	FT
CABLE UG 7 COND #6 AWG SOLID	300	FT
CABLE UG 7 COND #14 AWG SOLID	300	FT
WIRE UG TRK #6 AWG DUPLEX	300	FT
TAPE MARKER BURIED RR CABLE	1	Roll
BATT GNB 50G11 1 CELL	7	EA
BATT GNB 50G15 1 CELL	6	EA
ASSY NBS-1 W/10' LEADS 285HZ	1	EA
ASSY NBS-1 W/10' LEADS 430HZ	1	EA
PLATE SHUNT 22"X26"X1/4" GAL	2	EA
SCREW LAG 1/2X4 JOSLYN J8754P	8	EA
WIRE #6 SOFT BARE COPPER	40	FT
ROD 5/8 X 8 NS GRD ***	4	EA
CLAMP GROUND FOR 5/8 ROD	4	EA
BOND STRAND 8-STR 3/16" TINNED	125	FT
BOOTLEG BOND W/COUPLER KIT	12	EA
TAPE ELECTRICAL 3M #33+ 3/4"	3	EA
TAPE ELECTRICAL 3M #130-C	3	EA
COMPOUND INSULATING ELECTRIC	1	EA
HOSE RUBBER 3/4"	50	FT
STAPLE GROUND WIRE 1-1/16"X3"	12	EA
TIE CABLE .184 X 7.31" HIG T	20	EA
CABLE TIE TY-RAP 342MM W/ INOX BARB	20	EA
LUG RNG 1/4" 12-10AWG INS BLK	40	EA
WIRE DIESEL 10AWG 2000 VOLTS	350	FT
WIRE DIESEL 6AWG 600V	50	FT
LUG RNG 1/4 6AWG AMP ONLY	8	EA
NUT TEST 14-24 GOLD PLTD BRASS	32	EA
TEST LINK W/PLT & INSUL	32	EA
NUT INSULATED HARMON	8	EA
STAPLE COPPERWELD 3/8 X 1-3/4	85	EA
GREASE RUST PREVENTIVE NO OXID	1	EA
SLEEVE NICO 3/16"-#6 AWG REDUC	4	EA
CLIP TRACK WIRE RETAINER	12	EA
COMPOUND DUCT SEAL 5 LB PLUG	3	EA
PADLOCK SIGNAL CASE	5	EA
SIGN, ENS W/MTG	2	EA



SIGN HDW F/5"MAST RIBBED XING	4	EA
Field Cable Tag Kit	1	EA
TRAY BATTERY 12 X 27"	4	EA
WRENCH TORQUE WCH 3590-K-9	1	EA
WRENCH	1	EA
WRENCH AAR TERMINAL	1	EA
RETAINING WALL	1	LOT

Force Account Estimate

Estimate to Complete

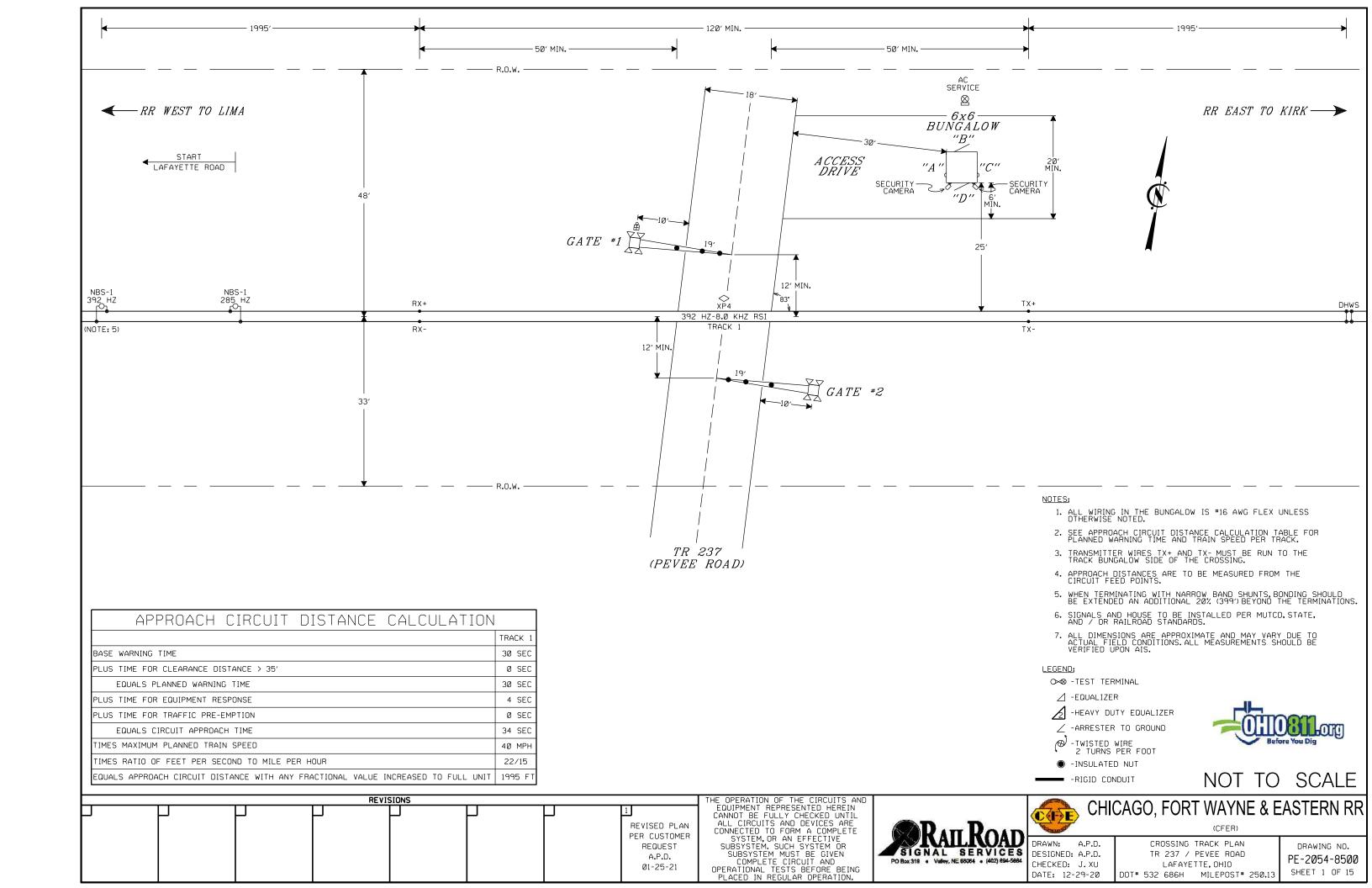
Railroad: Ch	nicago, Ft. Wayne & Eastern Rai	Iroad Region:	NORTHE	RN
Agency:	ORDC	State:	ОН	
DOT #:	532686H	COUNTY:	Allen	
ROADWAY:	Pevee Rd (TR 237)	CITY:	Lafayet	te
	Flashing Lights and Gates, 1 be 2000' away down the road.	ll, new 6x6 bungalow with XP4-R, came	ra system. Clos	est power
AGENCY PROJECT NUMBER:	PID 111182	ESTIMATE SUBJECT TO REVISION	AFTER: 0	9/25/21
PRELIMINARY ENGINEERING: Contracted & Administrative Engineering	g Services		\$	14,100
Subtotal	,		\$	14,100
CONSTRUCTION & CLOSEOUT:			•	40.000
Contracted & Administrative Engineering	g Services		\$	10,900
Subtotal			\$	10,900
FLAGGING SERVICE:				
Contracted or Railroad Flagmen Services	<u>7</u>	Days	\$	9,800
Subtotal			\$	9,800
LITH ITV MODIC				
UTILITY WORK: Power Service			¢	20,000
Other			\$ \$	20,000
Subtotal			\$ \$	20,000
Custotal			•	20,000
CONTRACT WORK:				
Outside Services			\$	10,000
Design & Labor & Material			\$	149,460
Subtotal			\$	159,460
RAILROAD TRACK:				
Labor & Material			\$	_
Subtotal			\$	
RAILROAD SIGNAL & COMMUNICATION	<u>ON:</u>		_	
Labor & Material			\$	
Subtotal			\$	•
PROJECT SUBTOTAL:			\$	214,260
Public Project Admin:	0.00%		\$	-
Contingencies:	0.00%		\$	-
PROJECT TOTAL:		******	\$	214,260
CURRENT AUTHORIZED BUDGET:		******	\$	-
TOTAL SUPPLEMENT REQUESTED:	************	*******	\$	214,260
DIVISION OF COST:				
Again	100.009/		.	214 200
Agency <u>´</u> Railroad	1 <u>00.00%</u> 0.00%		\$ \$	214,260
Namoud	<u>0.0070</u>		<u> </u>	

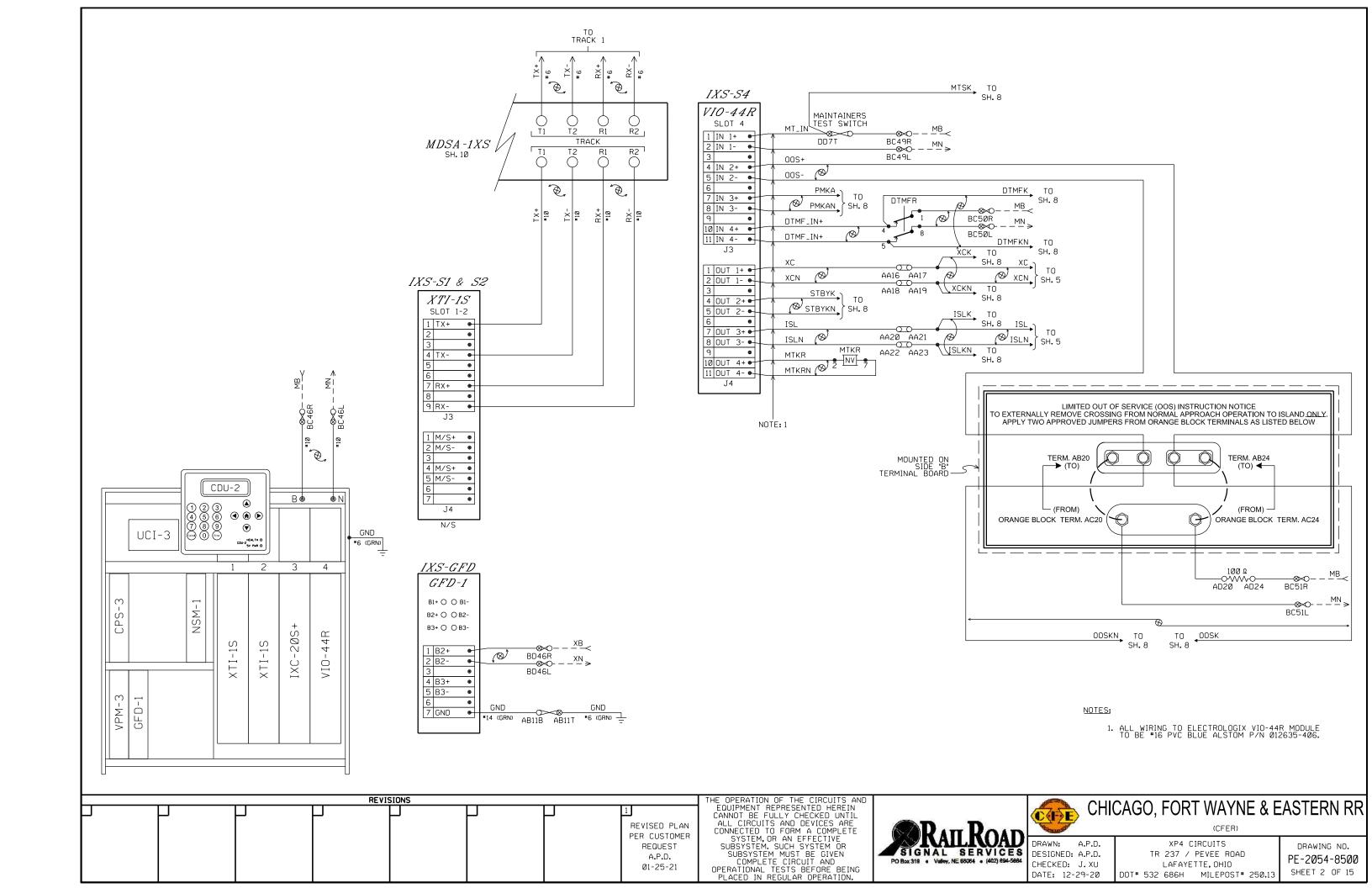
NOTE: Estimate is based on FULL CROSSING CLOSURE during work by Railroad Forces & Contractors.

This estimate has been prepared based on site conditions, anticipated work duration periods, material prices, labor rates, manpower and resource availability, and other factors known as of the date prepared. The actual cost for the railroad work may differ based upon the agency's requirements, their contractor's work procedures, and/or other conditions that become apparent once construction commences or during the progress of the work.

Estimated prepared by: BPB Approved by: **Public Project Department**

DATE: DATE: <u>01/13/20</u> REVISED: <u>03/29/21</u> 03/29/21





MAINTENANCE TROUBLE ALARM INDICATION VITAL CONFIGURATION SETTINGS

NAME	STATE	FUNCTION	DEFAULT	SET
B1_FAULT_ON	TRUE	B1_FAULT DROPS THE S4_OUT4_MTK OUTPUT.	TRUE	TRUE
DI_FHULT_UN	FALSE	B1_FAULT DOESN'T DROP THE S4_OUT4_MTK OUTPUT.	INOL	INUL
B1_HALRM_ON	TRUE	B1_HALRM DROPS THE S4_OUT4_MTK OUTPUT.	TRUE	TRUE
DI_HERM_UN	FALSE	B1_HALRM DOESN'T DROP THE S4_OUT4_MTK OUTPUT.	INUL	TRUE
B1_LALRM_ON	TRUE	B1_LALRM DROPS THE S4_OUT4_MTK OUTPUT.	TRUE	TRUE
DI_LHLKM_UN	FALSE	B1_LALRM DOESN'T DROP THE S4_OUT4_MTK OUTPUT.	INOL	TNUL
B2_FAULT_ON	TRUE	B2_FAULT DROPS THE S4_OUT4_MTK OUTPUT.	TRUE	TRUE
BZ_FHULT_UN	FALSE	B2_FAULT DOESN'T DROP THE S4_OUT4_MTKOUTPUT.	TRUE	
B2_HALRM_ON	TRUE	B2_HALRM DROPS THE S4_OUT4_MTK OUTPUT.	TRUE	TRUE
BZ_HALKM_UN	FALSE	B2_HALRM DOESN'T DROP THE S4_OUT4_MTK OUTPUT.		
B2 LALRM ON	TRUE	B2_LALRM DROPS THE S4_OUT4_MTK OUTPUT.	TRUE	TRUE
BZ_LHLNM_UN	FALSE	B2_LALRM DOESN'T DROP THE S4_OUT4_MTK OUTPUT.		
B3_FAULT_ON	TRUE	B3_FAULT DROPS THE S4_OUT4_MTK OUTPUT.	TRUE	TRUE
B3_FHULT_UN	FALSE	B3_FAULT DOESN'T DROP THE S4_OUT4_MTK OUTPUT.	TRUE	
B3_HALRM_ON	TRUE	B3_HALRM DROPS THE S4_OUT4_MTK OUTPUT.	TRUE	TRUE
B3_HHLIMI_UN	FALSE	B3_HALRM DOESN'T DROP THE S4_OUT4_MTK OUTPUT.	TNOL	
B3_LALRM_ON	TRUE	B3_LALRM DROPS THE S4_OUT4_MTK OUTPUT.	TRUE	TRUE
	FALSE	B3_LALRM DOESN'T DROP THE S4_OUT4_MTK OUTPUT.	TNOL	IIVOL
OOS_IN_MTR	TRUE	S4_IN2_OOS DROPS THE S4_OUT4_MTK OUTPUT.	TRUE	TRUE
003_1N_PITT	FALSE	S4_IN2_OOS DOESN'T DROP THE S4_OUT4_MTK OUTPUT.	TIVOL	THOL

(ALSO SEE NOTES 2 & 4)

CROSSING MAINTENANCE

ADJUSTMENT NAME	TRACK 1	
ENABLE/DISABLE	ENABLE	
DISABLE TIMEOUT	2 HRS	
BALLAST COMP	* 143	
PHASE COMP	*	
SHUNT TEST MODE	DISABLE ALL TRACKS	

BASIC TRACK SETUP

DADIC INACK	DEIUI
ADJUSTMENT NAME	TRACK 1
FREQUENCY	392 HZ
MASTER/SLAVE	MASTER
RX ADJUST	100
TCA/TCI	*
DIRECTION MODE	BI
LIA	*
ADVANCED APR.CAL	INACTIVE
NBS COMP RX	*
TRK ISLAND ASSIGN	ISL1_ASSIGN
APPROACH LENGTH	1995 FT
AUTO RX	ENABLE

MODULE SLOT	4
INPUT 1	S4_IN1_MT
INPUT 2	S4_IN2_00S
INPUT 3	S4_IN3_PMK
INPUT 4	S4_IN4_DTMF

VIO-44R VITAL INPUTS VIO-44R VITAL OUTPUTS

MODULE SLOT	4
OUTPUT 1	S4_OUT1_XC
OUTPUT 2	S4_OUT2_STBY
OUTPUT 3	S4_OUT3_ISL
OUTPUT 4	S4_OUT4_MTK

IXC-20S+ OUTPUTS

S3_G1_CNTRL S3_G2_CNTRL

S3_BELL_OUT NOT USED

IXC-20S+ INPUTS

MODULE SLOT	3
INPUT 1	S3_IN1_GPX
INPUT 2	S3_IN2_ISL
INPUT 3	S3_IN3_XC
INPUT 4	NOT USED

INPUT HEALTH RECOVERY DELAY

IHRD ENABLED	ENABLED
INPUT HEALTH RECOVERY INTERVAL	30 SEC.
IHRD FOR DISCRETE VITAL INPUTS	ENABLED

IXC SETUP	
ADJUSTMENT NAME	IXC
CROSSING TEST MODE	OFF
FLASH RATE	55 FPM
INTERFACE	XIP
VOLTAGE REGULATION	OFF
L1 VOLTAGE	12V
L2 VOLTAGE	12V
GATE 1 DELAY	3 SEC
GATE 2 DELAY	3 SEC

MODULE SLOT GATE 1

> GATE 2 BELL

NV OUT

- 1. THE S4_OUT1_XC CROSSING CONTROL OUTPUT IN THE INTERNAL LOGIC CHECKS EXTERNAL INPUTS S4_IN1_MT AND S4_IN4_DTMF, ISL_ASSIGN MUST ALSO BE TRUE FOR THE S4_OUT1_XC TO BE TRUE.
- 2. \$4_OUT4_MTK IS TRUE IF THE APPROACH AND ISLAND DISABLE'S ARE FALSE, ANY GROUND FAULT ALARMS ARE NOT ACTIVE WITH CORRESPONDING CONFIGURATION SWITCH SET TRUE. AN ACTIVE GROUND FAULT ALARM IS NOT CHECKED IN THE \$4_OUT4_MTK OUTPUT WITH THE CORESPONDING CONFIGURATION SWITCH SET FALSE. ADDITIONALLY THE \$4_OUT4_MTK OUTPUT IS FALSE IF THE \$4_IN2_OOS INPUT TRUE WITH THE CONFIGURATION SWITCH OOS_IN_MTR SET TRUE.
- 3. THE APPROACH DISABLE AND ISLAND DISABLE FEATURE WILL NOT ALLOW AN \$4_OUT1_XC CROSSING CONTROL OUTPUT. THE APPROACH ONLY CAN BE TAKEN OUT OF SERVICE WITH APPROVED OOS JUMPERS AS DESCRIBED ON SHEET 2.USE OF THE ISLAND DISABLE FEATURE WILL NOT ALLOW AN \$4_OUT3_ISL OUTPUT.
- 4. INPUT S4_IN3_PMK, APPROACH ENABLE AND ISLAND ENABLE MUST BE TRUE FOR FOR S4_OUT4_MTK OUTPUT TO BE TRUE.
- 5. THE AUX INTERNALLY CHECKS THE \$4_IN1_MT & \$4_IN4_DTMF INPUTS IN INTERNAL APPLICATION LOGIC.

GROUND FAULT DETECTOR SETUP

	CAL VOLTS	GF THRESHOLD	GF TIME	LOW ALARM	HIGH ALARM
B1: MB	* 13.5 (TYP)	10 K	5 SEC.	* 10.5	* 15 . 5
B2: XB	* 15.7 (TYP)	10 K	5 SEC.	* 14.0	* 16.5
B3: BATTERY 3	NA	NA	NA	NA	NA

XP4 PROGRAM SETUP

* = FIELD ADJUSTMENT TO BE MADE ACCORDING TO THE XP4 INSTRUCTION MANUAL.

ISLAND SETUP

ADJUSTMENT NAME	ISL
TRACK	TRACK 1
ENABLE/DISABLE	ENABLE
DISABLE TIMEOUT	2 HR 🖈
FREQUENCY	8.0 KHZ
LOSS OF SHUNT	2 SEC
FAULT DELAY	1

ADVANCE TRACK SETUP

ADJUSTMENT NAME		TRACK 1	
MOTION DET TIMER	MDEN	ENABLE	
MOTION DET TIMER	MDTT	10 MIN	
	FSEN	DISABLE	
FALSE SHUNT	FSRX	Ø	
	FST	1ØM	
	AREN	DISABLE	
APPROACH RELEASE	ARRX	0	
	ART	1ØM	
LOS TIME	16 SEC		
IJ-LOS TIME	5 SEC		
NRM_SHRT_VRYS	NRML *		
VOLTAGE TES	ENABLE		

MDR SETUP

ADJUSTMENT	MDR 1	
MDR	MDR1	
WARNING TI	ME	30 SEC
CW/MD		CW
CWE-WT		NA
AUX RECOVERY	DELAY	Ø SEC
TRACK ASSIC	GNED	SLT 1 TRK 1
OFFSET DIST	Ø FT	
MD RESTAF	Ø	
SUDDEN SHUNT	0	
	CJ MODE	STANDARD
CLEAR JOINT LOS	CJRX	15
	CJT	CALC
	PJEN	DISABLE
POST JOINT DETECT	PJRX	15
	PJDT	15
	PSEN	DISABLE
POSITIVE START	PSRX	0
	PST	O MIN

(SHOP TO VERIFY) EXECUTIVE INFORMATION

VPM3	VERSION	PART NUMBER
VPM-A PROCESSOR	7.26	083024-726
VPM-B PROCESSOR	7.26	083024-726
VPM-C PROCESSOR	7.26	083024-726

(SHOP TO VERIFY) VITAL APPLICATION SOFTWARE INFORMATION

APPLICATION NAME	gwrr_1rlı1xa
REVISION	01-04-21
CHECKSUM	75A8
CRC	14AD
CHASSIS ID	255
ID STRAPING	IIIIIII

NOTE: DL= DEFAULT LEVEL NA= NON APPLICABLE

REVISIONS REVISED PLAN PER CUSTOMER REQUEST A.P.D. 01-25-21

THE OPERATION OF THE CIRCUITS AND EQUIPMENT REPRESENTED HEREIN CANNOT BE FULLY CHECKED UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM, OR AN EFFECTIVE SUBSYSTEM, SUCH SYSTEM OR SUBSYSTEM WUST BE GIVEN COMPLETE CIRCUIT AND OPERATIONAL TESTS BEFORE BEING PLACED IN REGULAR OPERATION.

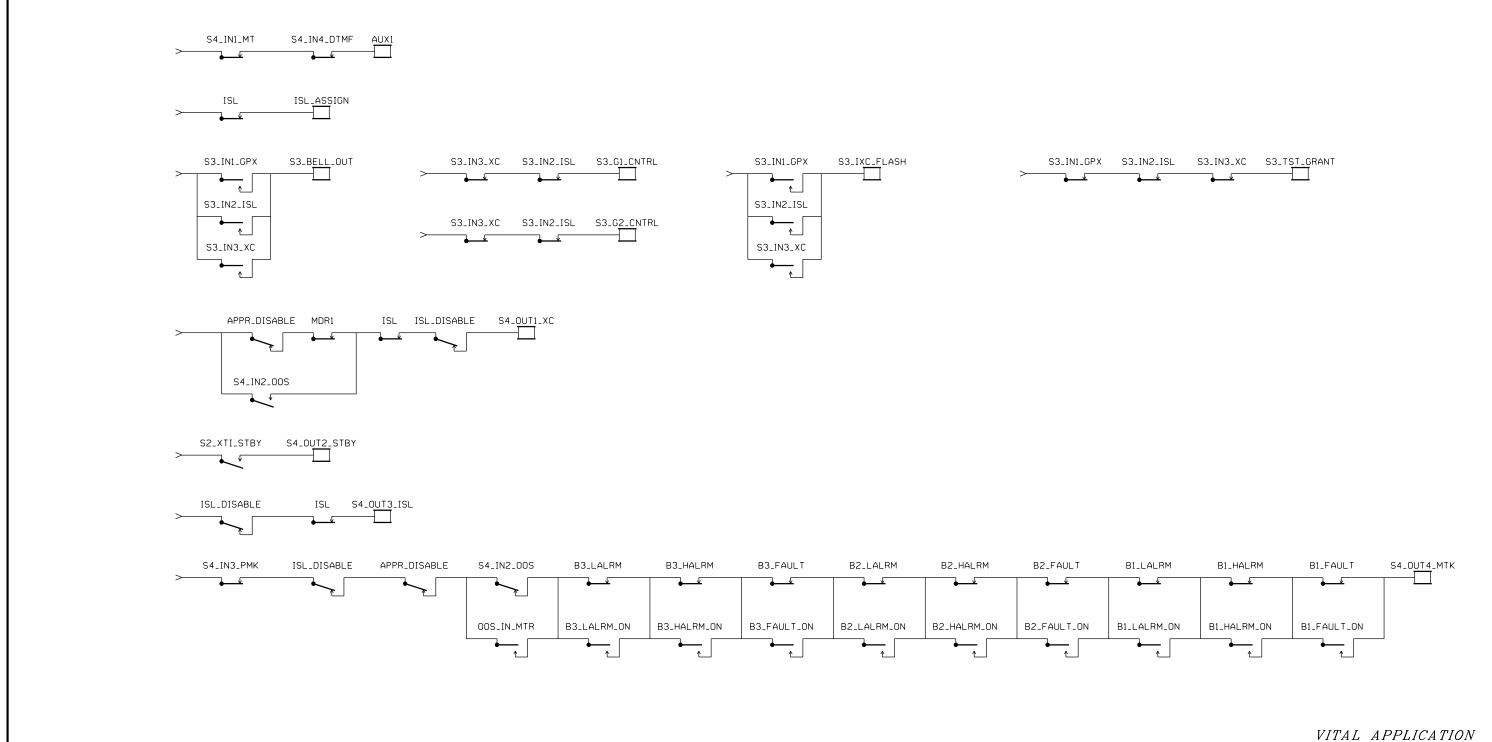
DESIGNED: A.P.D. CHECKED: J. XU

DATE: 12-29-20

CHICAGO, FORT WAYNE & EASTERN RR

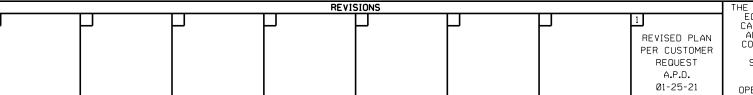
XP4 PROGRAM SETUP TR 237 / PEVEE ROAD LAFAYETTE, OHIO DOT# 532 686H MILEPOST# 250.13

DRAWING NO. PE-2054-8500 SHEET 3 OF 15



VITAL APPLICATION SOFTWARE INFORMATION

APPLICATION NAME	gwrr_lrlılxa
AUTHOR	ALSTOM
ACE VERSION	5.10.2.29.719
REVISION	01-04-21
CHECKSUM	75A8
CRC	14AD
VALIDATION CRC	62D48Ø67



THE OPERATION OF THE CIRCUITS AND
EQUIPMENT REPRESENTED HEREIN
CANNOT BE FULLY CHECKED UNTIL
ALL CIRCUITS AND DEVICES ARE
CONNECTED TO FORM A COMPLETE
SYSTEM, OR AN EFFECTIVE
SUBJECTEM OF SYSTEM, UR AN EFFECTIVE
SUBSYSTEM, SUCH SYSTEM OR
SUBSYSTEM MUST BE GIVEN
COMPLETE CIRCUIT AND
OPERATIONAL TESTS BEFORE BEING
PLACED IN REGULAR OPERATION.



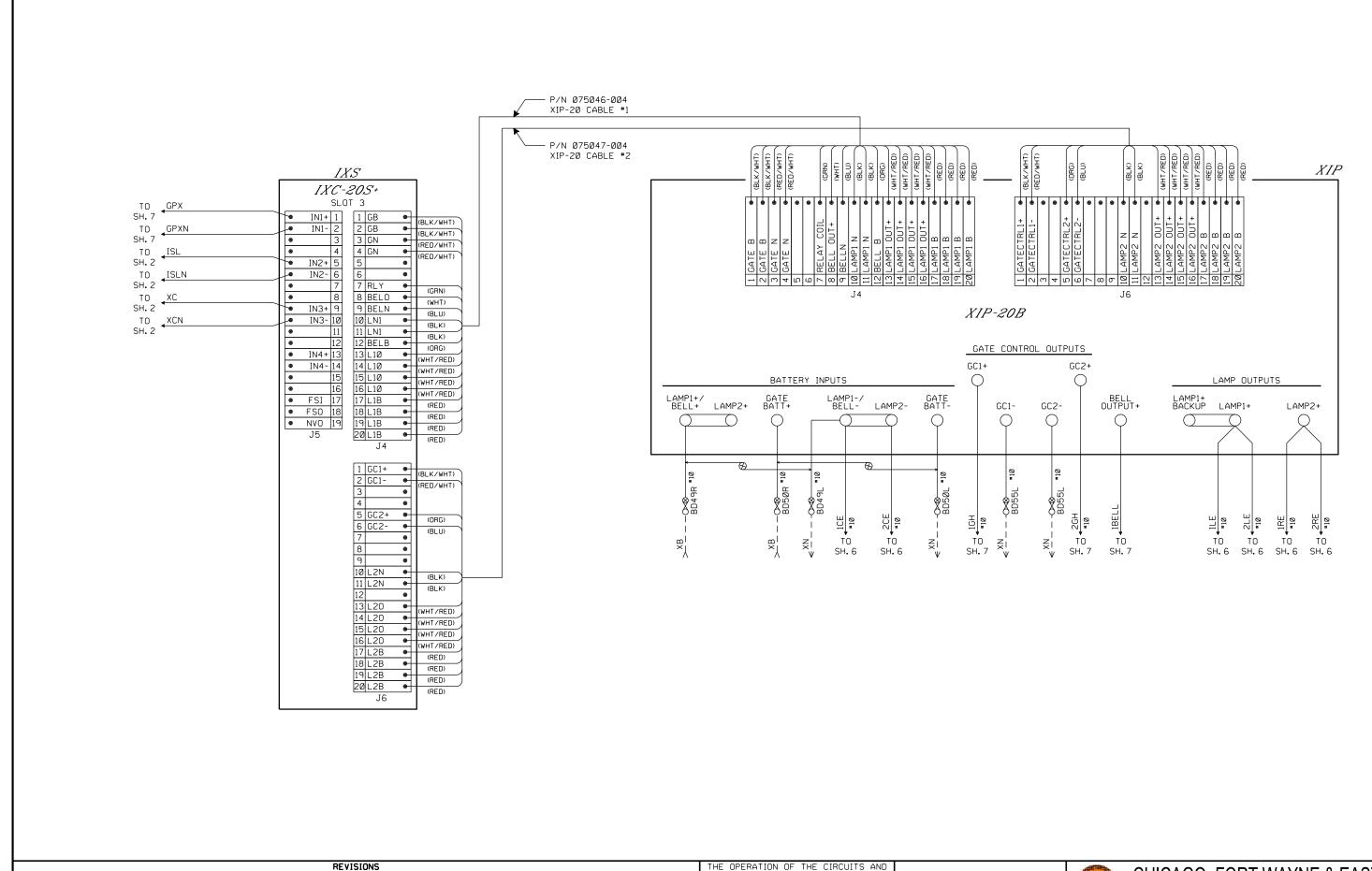
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DATE: 12-29-20

CHICAGO, FORT WAYNE & EASTERN RR

XP4 LOGIC EQUATIONS TR 237 / PEVEE ROAD LAFAYETTE, OHIO DOT# 532 686H MILEPOST# 250.13

DRAWING NO. PE-2054-8500 SHEET 4 OF 15



REVISED PLAN PER CUSTOMER

REQUEST

A.P.D.

01-25-21

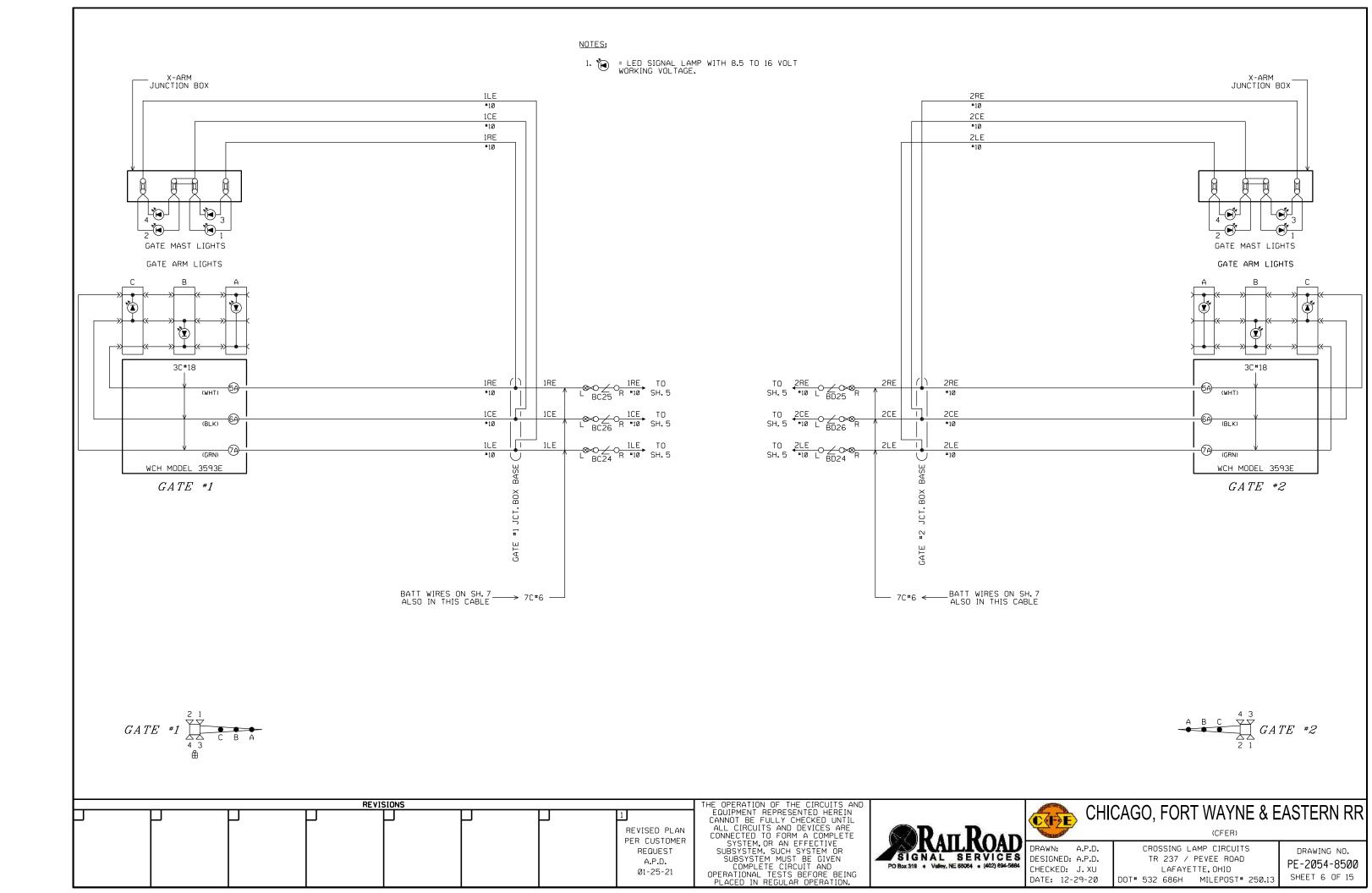
THE OPERATION OF THE CIRCUITS AND EQUIPMENT REPRESENTED HEREIN CANNOT BE FULLY CHECKED UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM, OR AN EFFECTIVE SUBSYSTEM, SUCH SYSTEM OR SUBSYSTEM WUST BE GIVEN COMPLETE CIRCUIT AND OPERATIONAL TESTS BEFORE BEING PLACED IN REGULAR OPERATION.

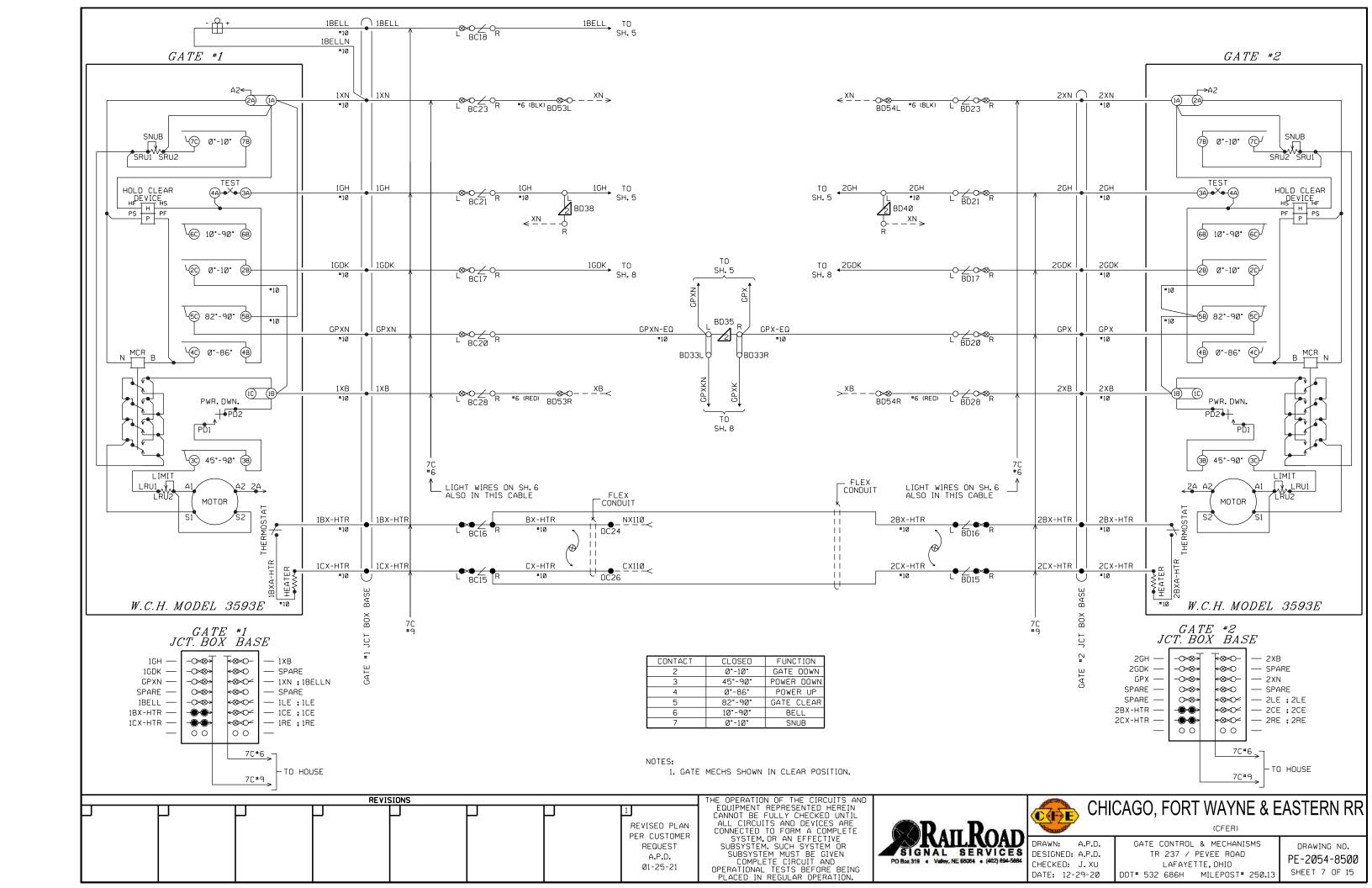


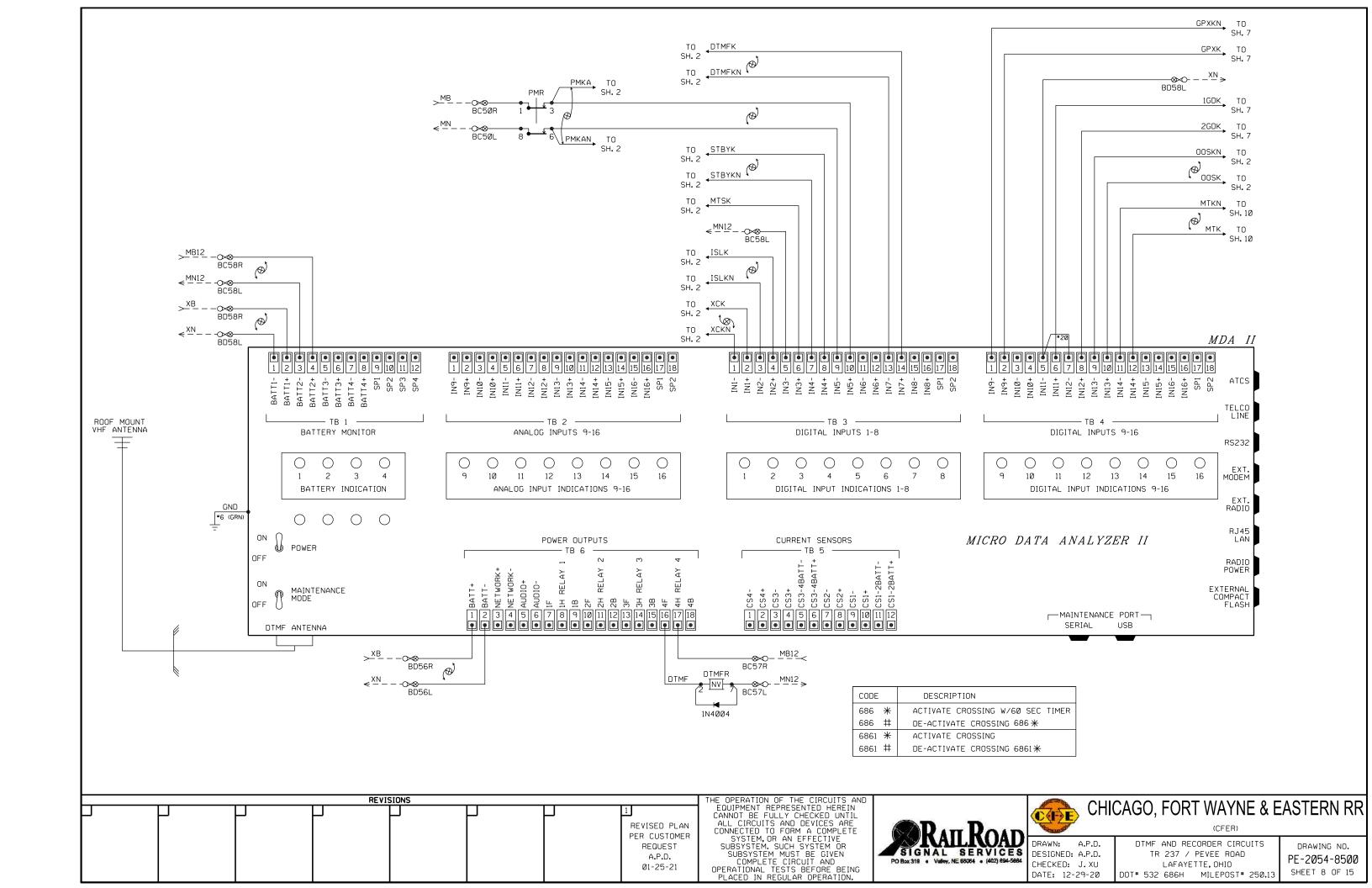
CHICAGO, FORT WAYNE & EASTERN RR (C(F)E)

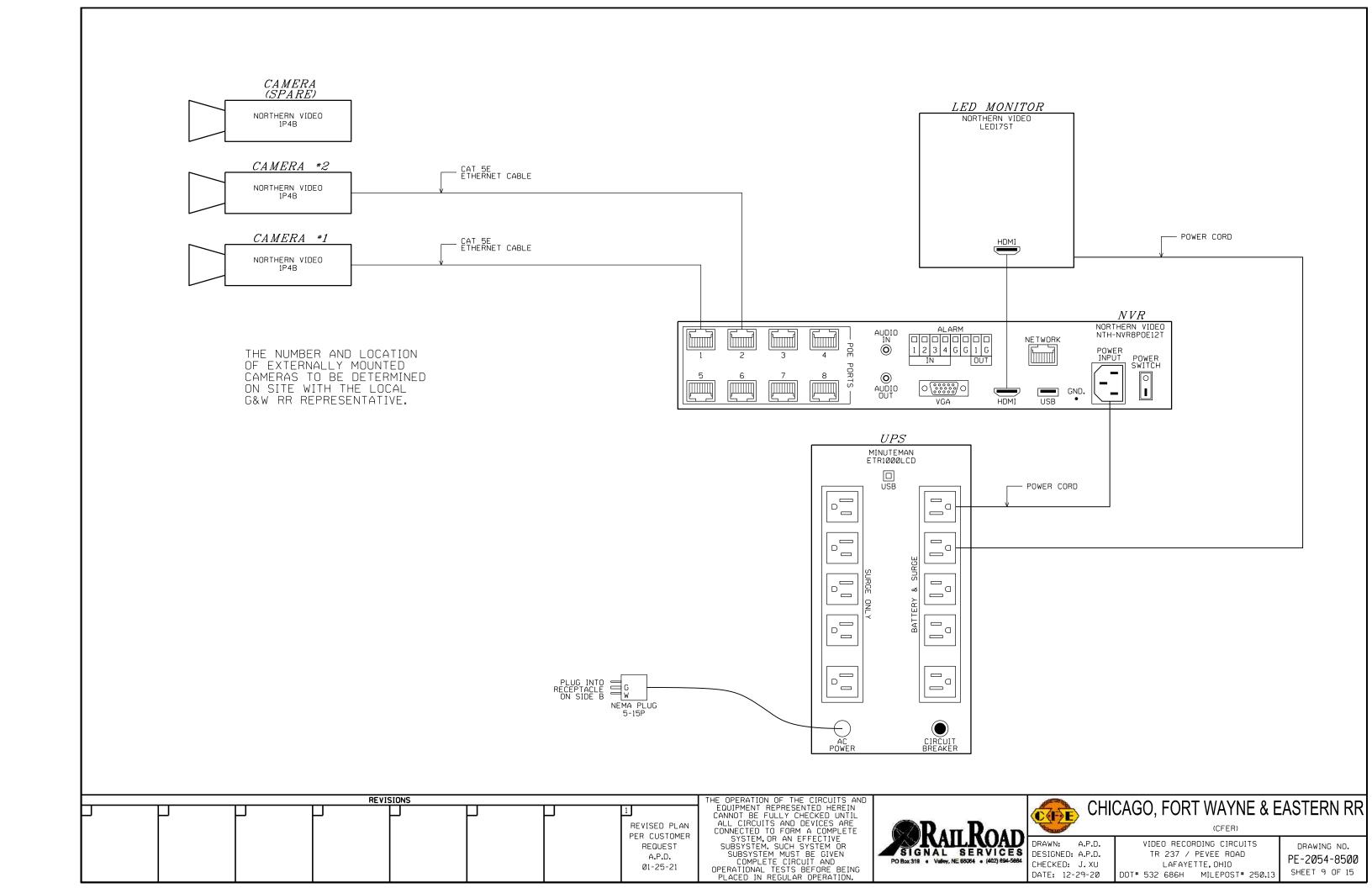
A.P.D. FLASHING & LAMP & GATE CONTROL TR 237 / PEVEE ROAD LAFAYETTE, OHIO DATE: 12-29-20 DOT# 532 686H MILEPOST# 250.13

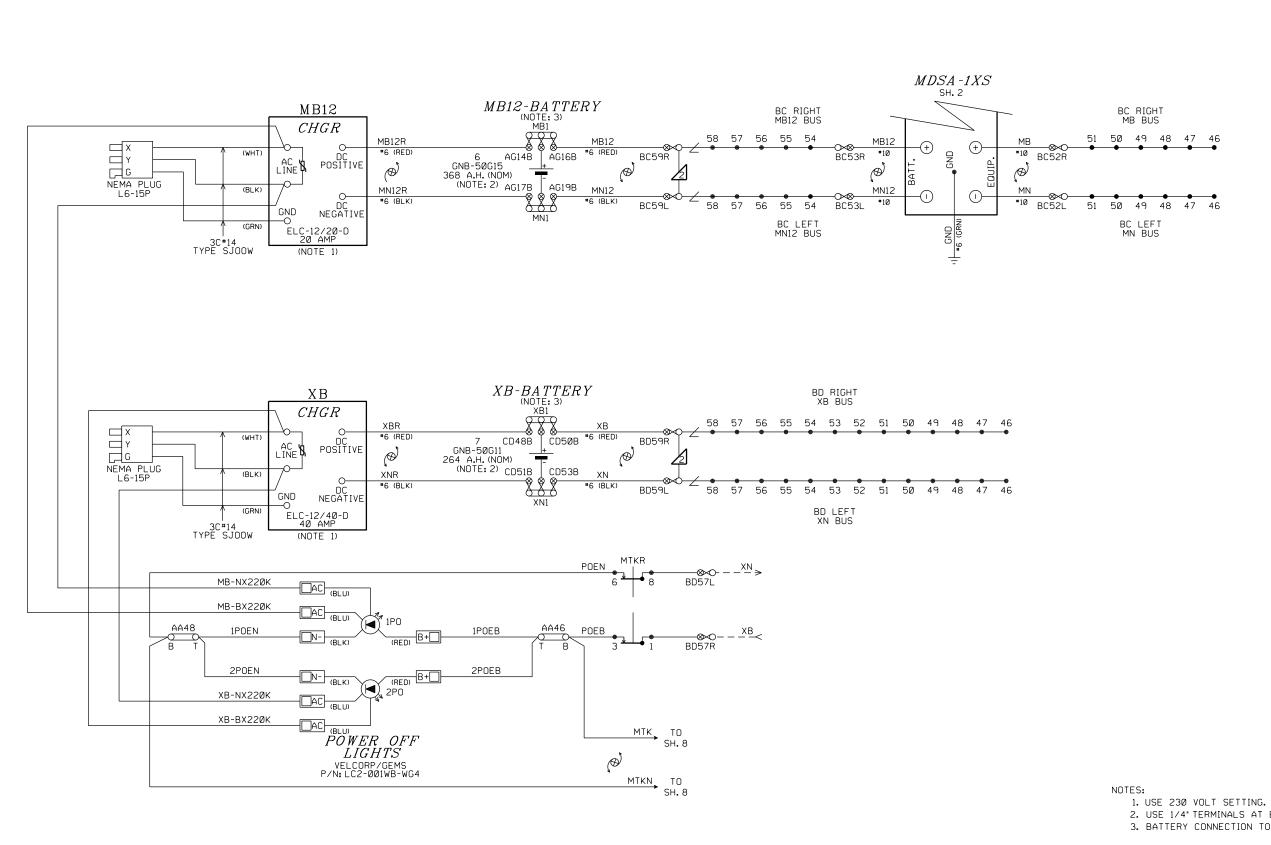
DRAWING NO. PE-2054-8500 SHEET 5 OF 15











DATE: 12-29-20

- 2. USE 1/4" TERMINALS AT BATTERY CONNECTIONS.
- 3. BATTERY CONNECTION TO BE MADE WITH #6 HYPALON INSULATED WIRE.

THE OPERATION OF THE CIRCUITS AND EQUIPMENT REPRESENTED HEREIN CANNOT BE FULLY CHECKED UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM, OR AN EFFECTIVE SUBSYSTEM, SUCH SYSTEM OR SUBSYSTEM WIST BE GIVEN COMPLETE CIRCUIT AND OPERATIONAL TESTS BEFORE BEING PLACED IN REGULAR OPERATION. REVISIONS REVISED PLAN PER CUSTOMER REQUEST A.P.D. 01-25-21

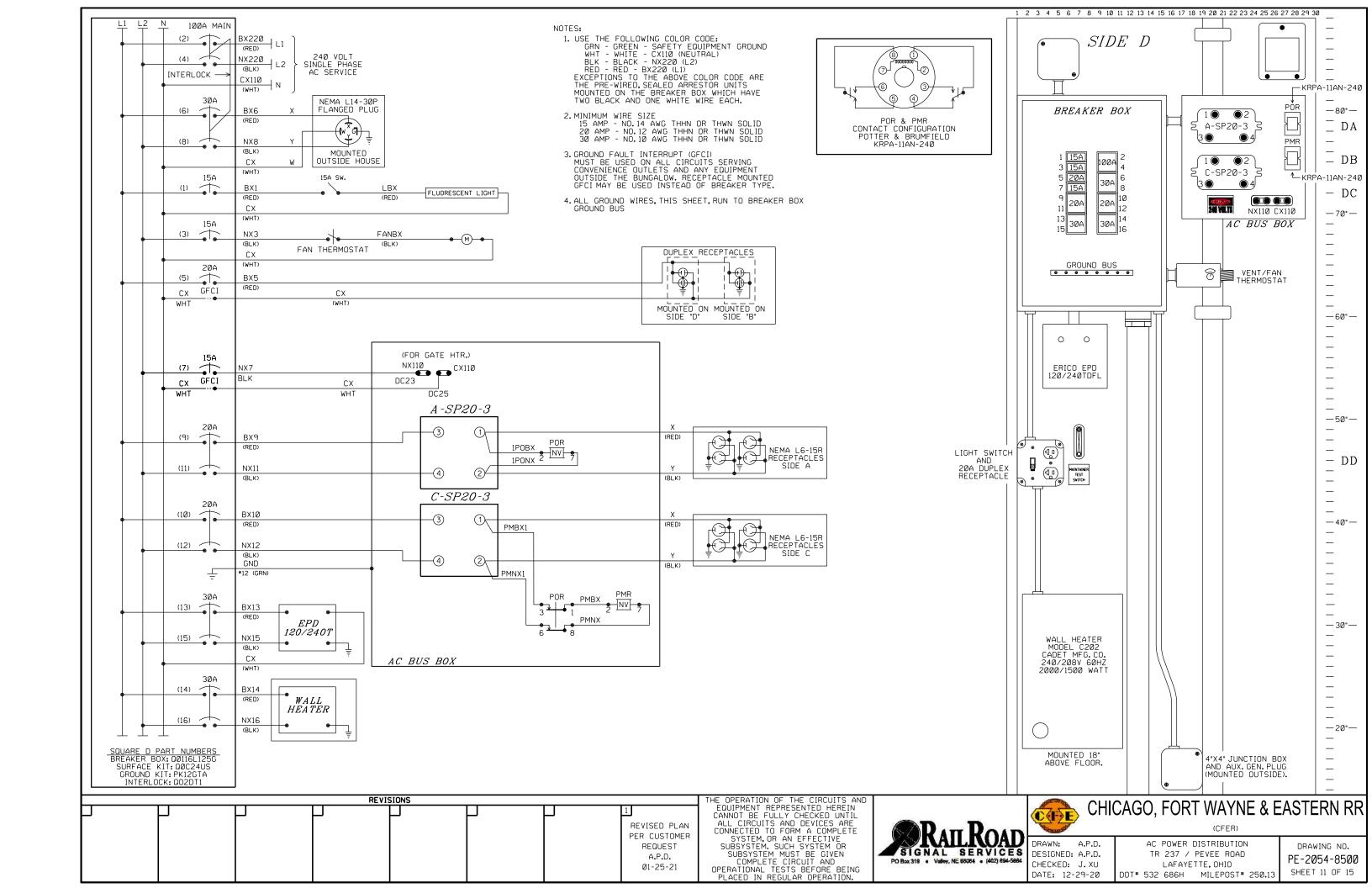
SIGNAL SERVICES Box 319 • Valley, NE 68064 • (402) 894-5664 DESIGNED: A.P.D. CHECKED: J. XU

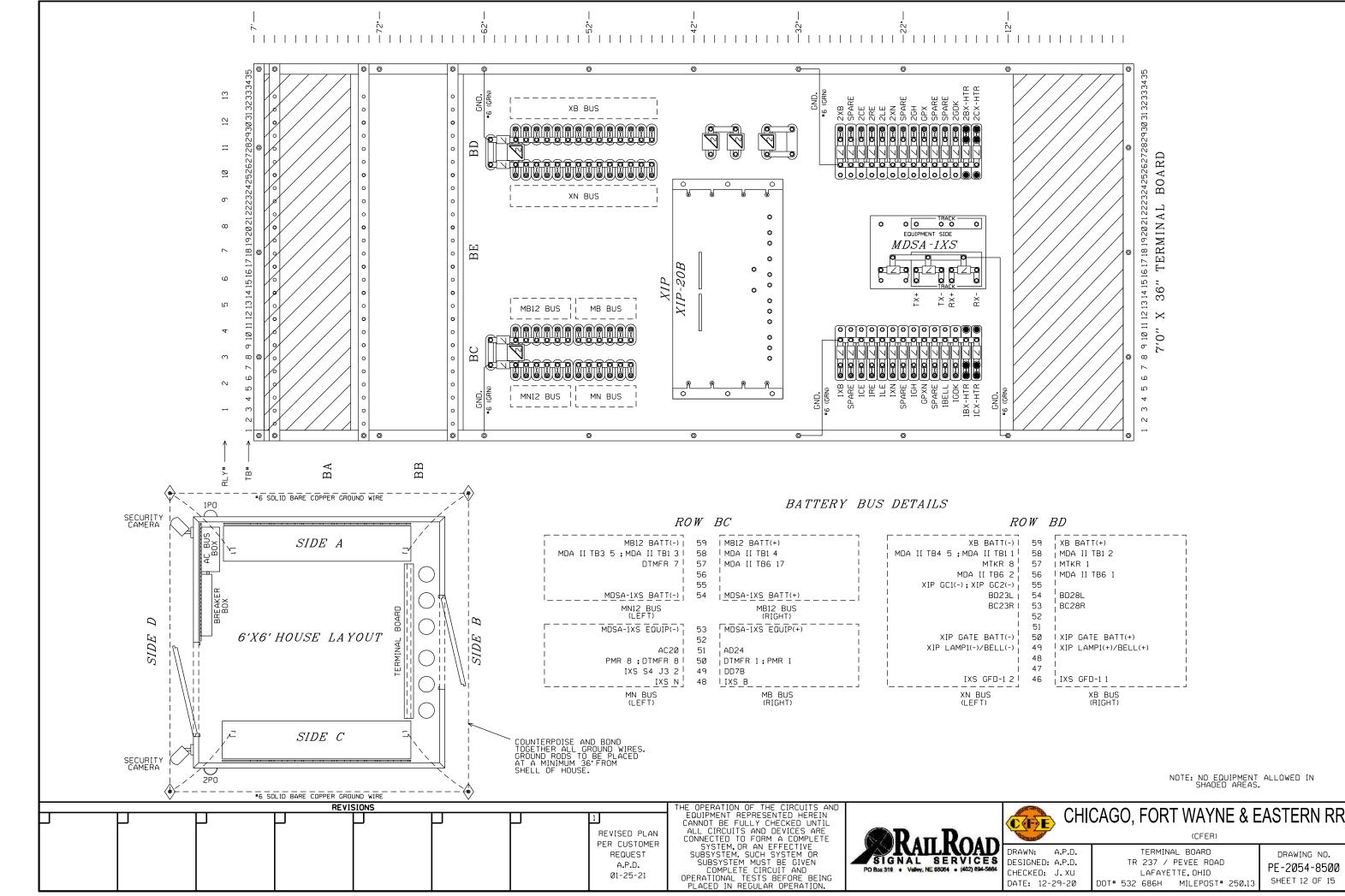
CHICAGO, FORT WAYNE & EASTERN RR CEE

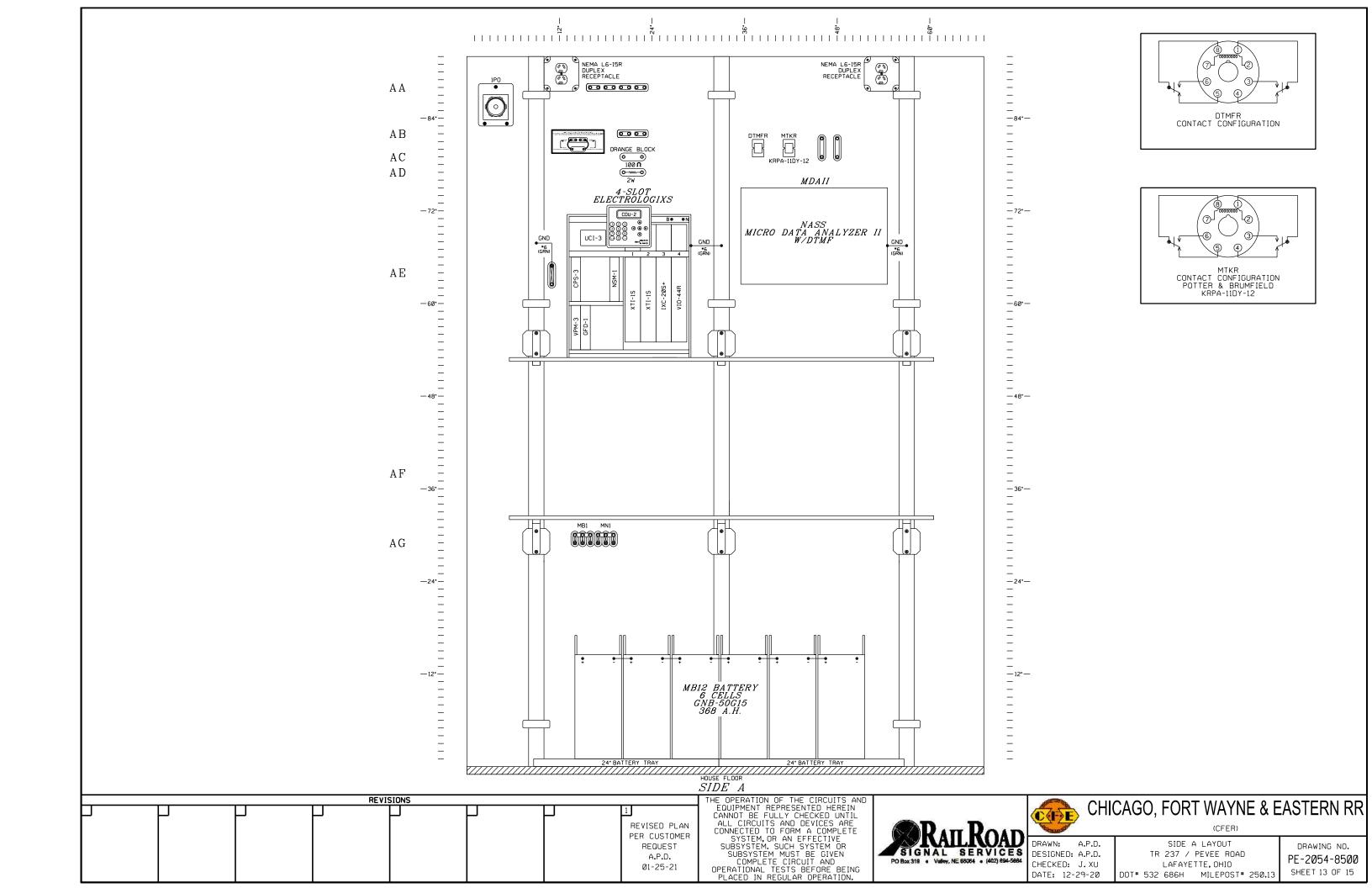
BATTERY CIRCUITS TR 237 / PEVEE ROAD LAFAYETTE, OHIO

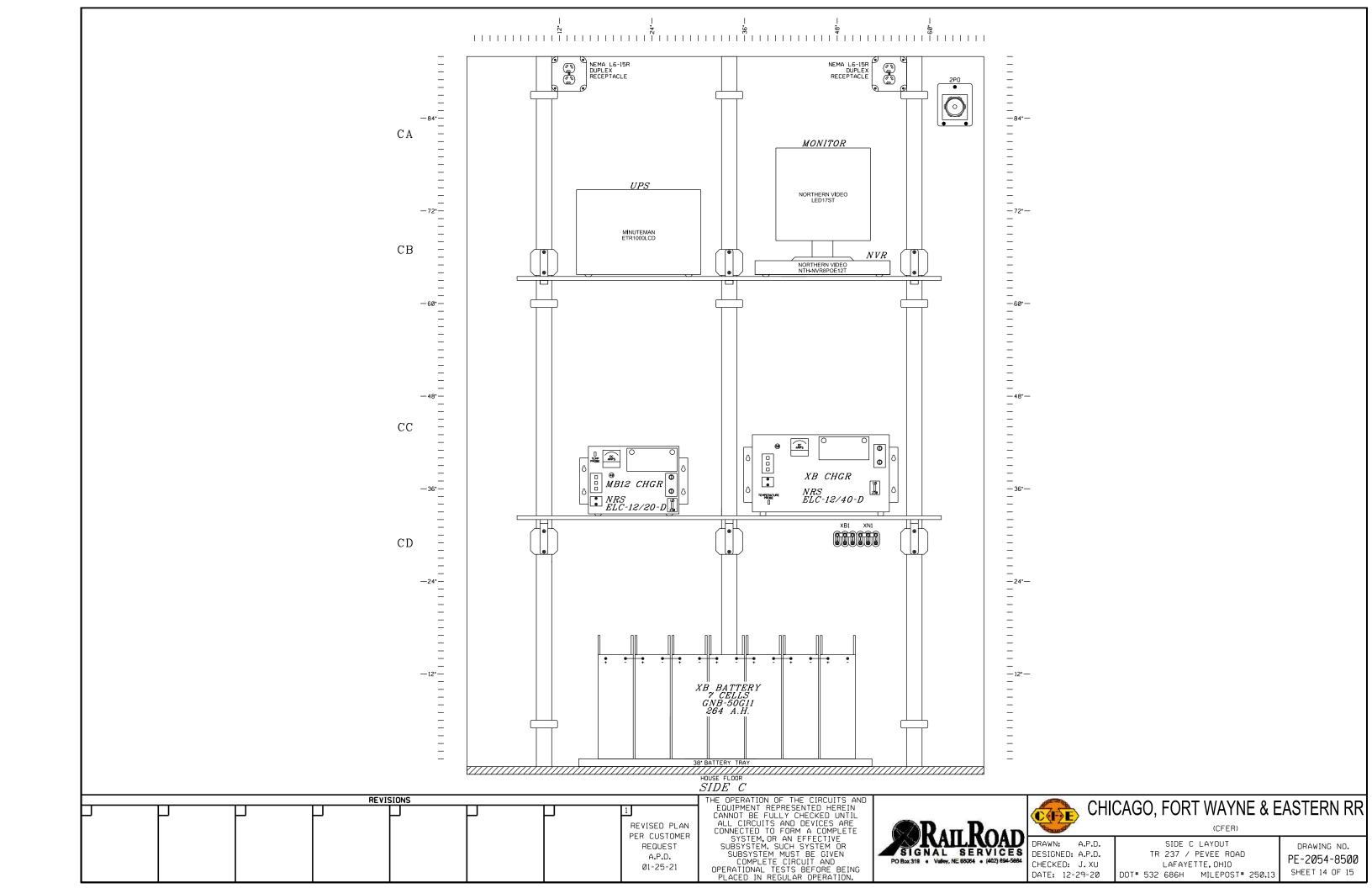
DOT# 532 686H MILEPOST# 250.13

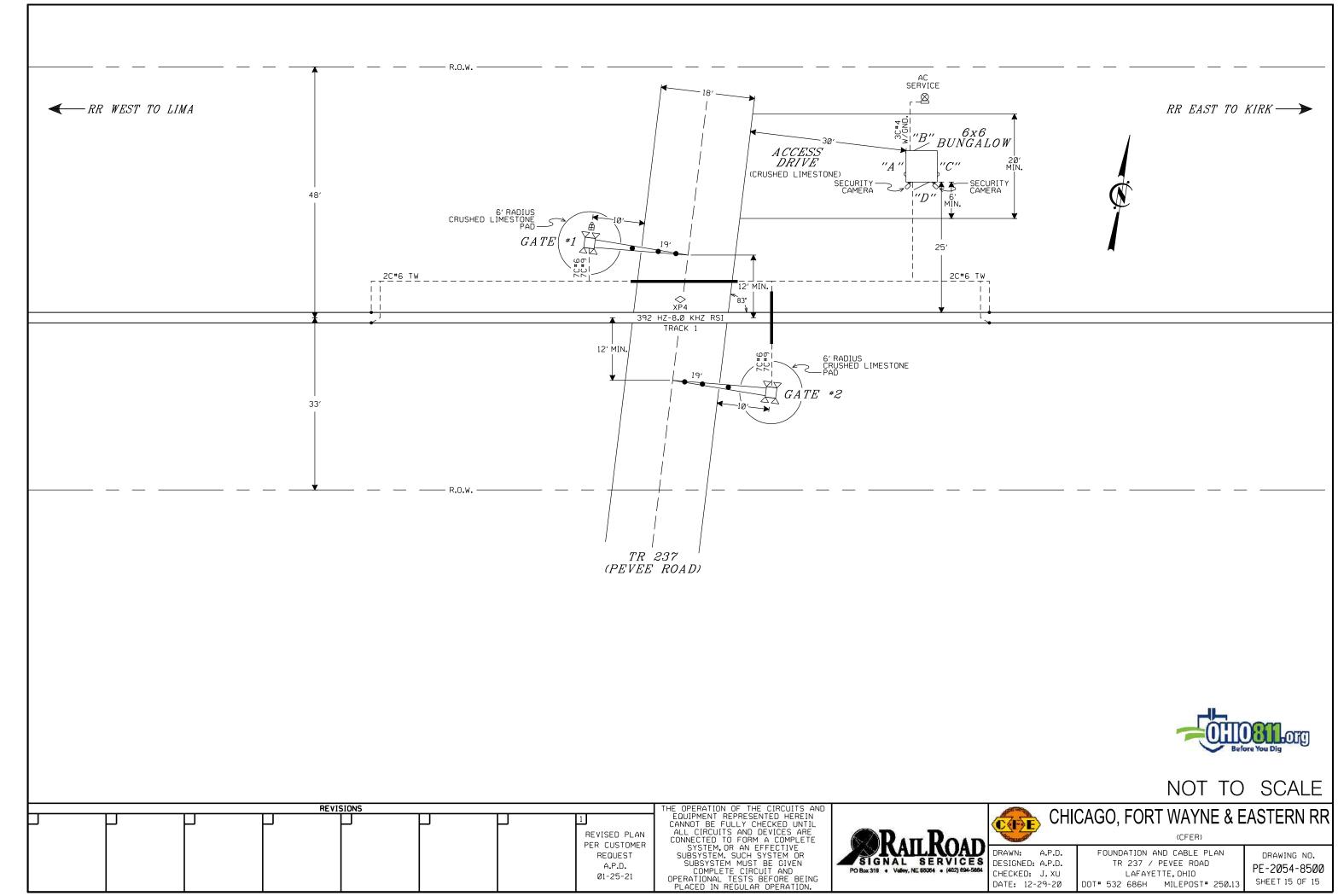
DRAWING NO. PE-2054-8500 SHEET 10 OF 15











SHEET 15 OF 15



Mike DeWine, Governor Jon Husted, Lt. Governor

Mark Policinski, Chair

January 7, 2020

Mr. Jacob Smith Director of Public Projects Genesee & Wyoming Railroad Services, Inc. 13901 Sutton Park Drive STE 345 Jacksonville, FL 32224

RE: Authorization for Engineering, Plans and Estimates for Grade Crossing Warning Device Upgrade Allen County, TR 237 North Pevee Rd.; DOT# 532686H; PID# 111182

Dear Mr. Smith:

A diagnostic review was held at the above grade crossing on 7/26/2019. The crossing has been recommended for an upgrade to automatic flashing lights and gates with 1 bell.

The Chicago, Fort Wayne & Eastern Railroad is authorized to proceed with the engineering design, plans and cost estimates for this project. This authorization is made with the stipulation and understanding that any field work needs prior approval before work begins. This authorization is made with the stipulation and understanding that an approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit. Please note that the CFER must provide ORDC with a plan stamped by a professional engineer licensed in the State of Ohio prior to acceptance and close out of the project.

The ORDC is not requesting that the PUCO issue an Order at this time. After ORDC receives and approves the engineering design, plans and cost estimates, a construction-only Order will be requested from PUCO. Please submit the preliminary engineering to ORDC within 90 days of receipt of this letter.

The diagnostic review form is attached. Please note any recommendations made by the team about requirements for this crossing. Minor roadway work necessary for MUTCD compliance should be incorporated into the plans/estimates and such costs will flow through the CSX reimbursement process.

The ORDC Project Manager for this project is Don Damron. I can be reached at 614-466-2509 (office), or 614-917-8466 (cell), or don.damron@dot.ohio.gov, if you have any questions.

Sincerely,

Donald J. Damron Project Manager

Copies: Randall Schumacher, Chief, Rail Division, PUCO

Jill Henry, Rail Specialist, PUCO

Heather Hamilton, ORDC and ORDC (file)

Attachments: 3 (Diagnostic Review Team Survey, letter agreement, purchase order)



am Randazzo, Chairman

M. Beth Trombold Lawrence K. Friedeman Dennis P. Deters Daniel R. Conway

October 15, 2019

Chicago Ft. Wayne & Eastern Railroad Mr. Jacob Smith Director of Public Projects Genesee& Wyoming Railroad Services, Inc. 13901 Sutton Park Drive STE 345 Jacksonville, FL 32224

> Re: Allen County, Pevee Road/TR 237, DOT#532-686H, hereinafter referred to as the "Project"

Dear Mr. Smith:

The Public Utilities Commission of Ohio (PUCO) has identified and the Ohio Rail Development Commission (ORDC) surveyed, on July 26, 2019, the above mentioned grade crossing for warning device upgrades. The location has been approved for flashing lights and roadway gates.

The Project shall comply with Agreement No. 00037-C, dated August 27, 2004, entered into by the State of Ohio and Chicago Ft. Wayne & Eastern Railroad ("RAILROAD"). Furthermore, the RAILROAD shall comply with all applicable state and federal laws governing grade crossing safety programs.

Reimbursable costs will be limited by ORDC based upon approved estimates and bid tabulations, if applicable. These limits will be quantified by the ORDC in its construction authorization to the RAILROAD and may be amended by the ORDC based upon revised estimates and bid tabulations. Additional costs must be approved in writing by the ORDC prior to being incurred. Emergency verbal authorizations by ORDC may be permitted but must be confirmed in writing within ten (10) business days of the verbal approval.

The RAILROAD shall complete plans and estimates for the Project within ninety (90) days after the RAILROAD is notified of authorization to proceed unless otherwise agreed by ORDC/PUCO and the RAILROAD.

The RAILROAD shall not commence construction prior to PUCO's Order and ORDC's construction authorization. The RAILROAD shall provide written notification of the construction start date to PUCO and ORDC no later than five (5) business days prior to such date.

Page 2 of 2
Pevee Road/TR 237
Allen County
Chicago Ft. Wayne & Eastern Railroad

Please indicate your acceptance of the terms and conditions of this Letter of Agreement by signing and returning one (1) copy to Ms. Jill Henry, Rail Specialist, Rail Division, Public Utilities Commission of Ohio, 180 E. Broad Street, Columbus, Ohio 43215-3793.

John D, Williams

Director, Transportation Public Utilities Commission of Ohio

Chicago Ft. Wayne & Eastern Railroad	Matthew Dietrich
Ву	Executive Director Ohio Rail Development Commission
Title	Olio Isan Bovolopinon, Commission
Date	Date 16-25-19

Page 2 of 2 Pevee Road/TR 237 Allen County Chicago Ft. Wayne & Eastern Railroad

Please indicate your acceptance of the terms and conditions of this Letter of Agreement by signing and returning one (1) copy to Ms. Jill Henry, Rail Specialist, Rail Division, Public Utilities Commission of Ohio, 180 B. Broad Street, Columbus, Ohio 43215-3793.

John D. Williams
Director, Transportation
Public Utilities Commission of Ohio

Chicago Ft. Wayne & Eastern Railroad

By Matthew Dietrich
Executive Director
Ohio Rail Development Commission

Date 11-1-19

Date Date

APPENDIX C

CONTRACT SUMMARY SHEET				
PART I [Requesting Party to Comp	PART I [Requesting Party to Complete]			
Requesting Party: Jacob Smith	Department: Engin	eering	Counterparties: Ohio Public Util	ities Commission
GWI Subsidiary: CFER	Region: Midwest		Contract File Number: CFER.201	9.10.25.OHI.01
Contract Type (check one) [See A	ppendix A for Contrac	ct Type]:	C. I. world should no labor .	Land Settlement Finance
Operations/Transportation Rela	ated Supplier/Ver		Employment/Labor/Consulting Locomotive and Railcar Lea	ces and Related Agreements
Partnerships Acquisitions/I		rangemems	Locollotive and Railed Lea	202 Blid Kowton Agreements
☐ Intellectual Property ☐ Oth Joint Facilities Related ☐ NO		lities #		
Joint Facilities Related NO Contract Sub-Type [See Appendix	A for Contract Sub-T	inues #	lic Project Agreement	
Status (check one): New	Contract If Am	endment	Amendment No Rene	wal Termination
If Termination, Termination Date:	Contract 11 Am	bitument,	Amendment 110	
If Amendment, Renewal, or Term	ination:			
Contract File Number of Initial Con		ve Date of	Initial Contract:	
Estimated Contract Value: \$220,0			Effective Date: 10/15/2019	
Term and Contract Expiration:				
Initial Term: year(s) Renewal Term(s):	month(s); termina	tion date:		
Renewal term duration: year	` '			in advance of then current term;
renewal term(s) capped (if specified): ; GWI deadli	ne to provi	de notice for renewal:	
Evergreen Term(s):		ZALONUT .		(days) in advance of then
-	ar(s) month	(s); GWI e	evergreen termination notice period:	(days) in advance of then
current term; evergreen term capped (if specified)	· · · GWI deadlin	hivora ot a	e notice for evergreen termination:	
Terminable at Will by GWI?				
-				
Consequential Damages Limitatio			YES	
Non-Standard Terms: Governed l	by master agreement of	iated 8/2//.	2004	
Any non-standard deadlines? 🗵 NO 🔲 YES, Deadline:				
Ongoing Insurance Obligations of	GWI: NO [sert explanation)	
Rate Adjustment Mechanism for	Multi- 🛛 NO 🗌		sert explanation)	
year Contract (check one): If YES, insert Adjustment Date for Reminder:				
PART II [Requesting Party to Complete. Must Complete for All Operations/Transportation Related Contracts]				
the state of the s				Contracts
Fuel Surcharge included (check o	пе):	LINOL] YES, (insert explanation)	
Volume Guarantee (check one):	-	□NO	YES, (insert explanation)	
TOTALIS CHARLES (CITCLE ONLY)				
Refund Provision (check one):		□ NO □	YES, (insert explanation)	
GWI Fleet Addition/Equipment	Required (check	□ио□	YES, (insert explanation)	
one): HAZMAT/Passenger Involvemen	t (check one):	□ NO [YES, (insert explanation)	······································
			The state of the s	
PART III [Signatures Required -]		Requesting	Deputy General Counsel	10/25/2019
4.4	Alfred Q. Ricotta Name		Title	Date
	s/ Andrea Alexander		Manager BC&TA	10/28/2019
FF	Name	, , , , , , , , , , , , , , , , , , , ,	Title	Date
Additional Approvals Required? NO YES, (department/business unit)				
PART IV [Finance Director to Complete Singultaneous to the Execution of the Material Contract]				
Approved by				
	Name //axi	2/2/1	Title AST. Teasure	Date // - /-/9
Capex Approval Needed?	NO YE	S, Approv	Date Date	
Approved by RSVP	Minte	1.1/2	less President	Date 14-1-19
	Name / WWW	TIS PULL	MERE / PULLEDY	

Diagnostic review team survey ALL TR 237 North Pevel Rd 532686H

		Sign ii	n sneet	
	name	//	email	phone #
	CHRISTOPHER FRANK	GRST	CARAHK CGWLL.COM	904.314.4007
	Trovor Conkle	CFE	Trever. Conkled. GWRR.	(34 419-204-1020
	Tim Flessner	PUCO	timothy. Flessner Dyu	
	PON DAMRON	ORDC		
-	Jim stilling	TRUSTEE	SHIlling & Herstage C	567-204-9663 DOPERATION.COM
	RANDY ACKERM		Ranny Acksembn 2205	
	DAVIA LOUTH			
-	Ron Neyer	A	Meyer allen county	419-228-3196
	, , 3-			

Reason for Request: Formula (e.g. formula, accident, constituent, etc.)

Date: 7/26/2019

Lucialonalena					
Street or Road Name: TR 237 / North Pevee Road					
County:	Allen	Township:	Jackson	US DOT No.:	532686H
City (in or near):	near La Fayette	Railroad Name:	CFE	RR Milepost:	250.13
Gratus/Nichens	On with Gerrie equina				
		Initial Informa	tion (from database)		Revised
Number & dates of vehicle crashes in previous 5 years:		1 -	1/21/19		
Number & dates o	of pedestrian/bicycle s 5 years:				
Hazard Ranking:	259	Date Run:	03/18/2019		

Existing Traffic Control Devices				outsign of the control of the second of
Type of Warning Devices	Insta	lled?	Qu	antity/Comments
HIGHWAY				The state of the s
Advance Warning Signs (condition?)	Ø Yes	□No		
'Stop' Signs	□ Yes	Ø No		
'Stop Ahead' Signs	☐ Yes	⊠ No		
Pavement Markings (condition?)	& Yes	□ No		
Dynamic Envelope Markings (condition?)	☐ Yes	🗗 No		
Illumination	☐ Yes	⊠ No		
'No Turn' Signs (highway/passive)	☐ Yes	Ø No		
Barriers/fencing (pedestrian/bicycle)	☐ Yes	Ø No		
LOOK Sign	☐ Yes	Æ No		
Do Not Stop On Track Sign	☐ Yes	≰ No		
RAILROAD				
Crossbucks	🕰 Yes	□ No		
Crossbucks – assembly with Stop	₫ Yes	□No		
Crossbucks – assembly with Yield	☐ Yes	4 € No		
Mast-Mounted Flashing Lights	☐ Yes	⊠ No		
Cantilever Flashing Lights	☐ Yes	Æ No	Number:	Length:
Side Lights	☐ Yes	Ø -No		
LED or Incandescent Lights? Size?	☐ Yes	Ø-No		
Automatic Gates	☐ Yes	2 No	Number:	Length:
Bells	☐ Yes	ØLN o	Number:	
Sidewalk/Pedestrian Gate Arms	☐ Yes	Ø :No	Number:	Length:
'No Turn' Signs (railroad/active)	☐ Yes	⊠ No		
Is crossing flagged by train crew?	☐ Yes	□ No		
OTHER	☐ Yes	□ No		

Railroad Data					
Type of Train: ☑ Freight ☐ Intercity Passenger ☐ Transit ☐ Shared Use Transit ☐ Commuter ☐ Tourist/Other					
Railroad Characteristics	Initial Information (from database)	Revised			
Total trains per day	10	OK			
<1 per day? Trains per week	· -				
Day thru trains	5				
Night thru trains	5				
Switching	0				
Total number of tracks	1				
Number of main tracks	Number of main tracks 1				
Number of other tracks	Number of other tracks				
Maximum train speed	40 <i>OK</i>				
Typical train speed	peed 35 - 40 O K				
umtrak –					
Are there other track(s) crossing this same roadway within 100ft of this crossing?					
If yes, Crossing DOT# (if different)					
If yes, distance (take measurement between track centerlines at closest point along roadway)					
If multiple tracks, can two trains occupy crossing at the same time? \[\sum \text{Yes} \sum \text{No} \]					
Can one train block the motorists' view of another train at the crossing? Yes (explain below)					
Can one or more tracks be eliminated through the crossings? \square Yes \square No					
Comments:					
Circuitry: 🗌 Constant Warning Time 🔲 Motion Detection 🗎 AFO 🔲 PTC 🔲 DC 🗍 Other					

ACTIVE CROSGING TO EAST & WEST

Roadway Data				
Local Highway Authority: Jackson Township				
Roadway Characteristics	Initial Information (from database)		Revise	ed
Average Daily Traffic	12	3	289 2016	(RPC)
Highway Paved	M Yes □ No		□ Yes □ No	
Roadway Surface: 🗹 Blacktop 🔲 Gravel 🗆	Concrete Other		CHIPKSBAL	
Roadway width (paved/travelled way):	18ft			
Number of Highway Lanes	2		-	
Urban or Rural	Rural -	Local		
Vehicle Speed: 55 MPH				
School Bus Operation: 🗹 Yes 💆 No	Amount	YES 2 A	SM/2PM	
Location of nearby schools:		ALLEN	•	
Hazardous Materials Trucks: 🗹 Yes 🗆	No Amount (fror	m n /	LHA verified/changed?	
Shoulders: ☐ Yes ☐ ☐ ☐ ☐		11-11-11-11-11-11-11-11-11-11-11-11-11-		
Is the Shoulder Surfaced? ☐ Yes ☐ No	If yes, shoulder width	:ft:		411
Is there existing guardrail along the roadway in crossing vicinity? Yes				
Crossing Angle 🗆 0-29" 🗆 30-59" 🗹 60-90" Measured in Quadrant?				
Quadrant Curb & Gutter: Quadrant Curb & Gutter:				
☐ Functional (Curb height = 4" or more) ☐ Functional (Curb height = 4" or more)				
□ Non-functional (Curb height = less than 4") □ Non-functional (Curb height = less than 4")				
None	ACNone ØNone			
Is there a nearby intersection that could cause queuing over the crossing?				
If yes, distance				
Is this intersection signalized? □ Yes ØNo				
Are there signals currently interconnected with the existing crossing warning devices? Yes				
Is there a 'Do Not Stop on Track' sign? 🛘 Yes 🕳 No				
Is a roadway improvement project (e.g. widening, turn lanes, nearby new or upgraded traffic signal, sidewalk) planned at or near this location in the foreseeable future? If Yes \Box No $CHIP + SEAC THIS SUMMED: NEXT$				
If yes:				
Improvement type NEXT YEAR Lead Agency TWP. Timeline/completion				

Pedestrian & Bicycle Data
Regular pedestrian usage: ☐ Yes ☐ No Volumes: ☐ Occasional ☐ <20 ☐ 20-60 ☐ >60
Is sidewalk present in the approach? Yes One Quadrants:
Does crossing surface accommodate pedestrians? 🗆 Yes 💆 No
Both sides of roadway? 🗆 Yes 🏿 💆 No If no, which side is paved?
Pedestrian generators in close proximity (e.g. schools, sports/entertainment venues)?
Comments:
Regular bicycle usage: 🛘 Yes 💆 No
□Roadway □ Dedicated Lane (on street) □ Dedicated Path (off street) □ Shared Use (pedestrian/bicycle) Path □ Bikes must use sidewalk
Future plans for pedestrian or bicycle routes? Yes No
Comments:
Utility Information Is commercial power available? Yes ANO OH POWER LEN
Utility Provider (Company Name)
Nearest Available Power Source 2000 - 3000 FT DOWN ROAN
What other utilities are present? ☐ Gas ☐ Cable ☐ Telephone ☐ Eiber Optic Cable (add locations to sketch) ☐ Petroleum ☐ Water ☐ Sanitary Sewer ☐ Other
Comments:
Surface
Surface review form completed? Yes ONO
Sight Preview (REFER TO TABLES)
If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table 1)
Is stopping sight distance adequate? (See Table 2)
When considering recommendations for bicycle treatments:
Bicycle sight distance adequate? Yes 🛘 No If no, which quadrant?
When considering recommendations for pedestrian treatments:
Pedestrian sight distance adequate? 💢 Yes 🗆 No If no, which quadrant?

Potential Red Flags / Project Challenges
Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known):
NA
Crossing Consolidation or Closure:
NA
Real Estate or ROW:
ROW = 30 ONS 60'ON N- RORD = 60'
ROAD = GO'
Culvert / Drainage / Ballast Conditions:
NA
Roadway and/or Sidewalks:
NA
Circuitry (e.g. reaches out to other crossings, specific needs, etc.): **NA**
Environmental:
NA .
Utilities:
Other:

Potential Closure	
Is it the consensus of the Diagnostic Review Team th	nat this is a potential closure project? No
Explain reasons: EMS Acaess	
Diagnostic Team Recommendations	Our deven Needed
No improvements needed	Quadrants Needed
☐ Install/upgrade active devices	
☐ Automatic Flashing Lights (AFLS)	
☐ AFLS /Cants	
☐ AFLS / Gates	
☐ AFLS / Gates / Cants	
☐ Bells / number	
☐ Upgrade circuitry / type	
☐ Sidelights	
☐ LED Upgrades	
☐ Guardrail Needed	
☐ Install/Replace curb	
☐ Bungalow placement & offset from rail & highv	vay
☐ Other (define) Comments:	
Comments.	
☐ Install/upgrade traffic signal preemption	
Other (define):	TIME ARING
EXISTING SIGNAGE IS ADEC	PUBLE FOR THE TIME-BEING
Annual part of the state of the	
Diagnostic Team Recommendations (en transcription particular particular consequent que un transcription de consequent successive de serviciones
PEDESTRIAN/BICYCLE Treatments (additio	*
□ Crossing Surface (specify) □ Detectable warning surfaces	□ Sidewalk (specify) □ LOOK Sign (R15-8)
Stop lines	□ Illumination
□ Dynamic envelop markings	☐ Channelization
☐ Path delineation	☐ Fencing/barriers
	Lencing/partiers
Other	
Comments:	
	n entity represented at the diagnostic must have at least one signature/initial
acknowledgement)	L Comments
	5,
1 JAN	λ Δ

Field Sketch (optional)				
Include utilities as marked by OUPS and LHA	A; include ROW boundari	es as indicated by railroad a	and LHA.	
		,		
			,,	

Clearing Sight Distances

Maximum Authorized Train Speed	Distance (dT) Along Railroad from Crossing (ft)
speed	Kain oad it oth Crossing (it)
1 - 10	240
15	360
20	480
25	600
30	720
35	840
40	960
45	1080
50	1200
55	1320
60	1440
65	1560
70	1680
75	1800
80	1920
85	2040
90	2160

Source: R-H Grade Crossing Handbook Table 36 (pp. 132-133)

Notes:

All calculated distances are rounded up to the next higher 5-foot increment.

Distances indicated are for 65-ft double bottom semi-tractor trailers and level single track 90 degree crossings; and may need to be adjusted for multiple tracks, skewed crossings or approaches on grades.

Clearing Sight Distance is to be measured in each vehicle travel direction at <u>non-gated crossings</u> as viewed from a point 25 feet from centerline of nearest track in the center of whichever travel lane is nearest the direction along track being measured.

Stopping Sight Distances

Highway Vehicle Speed	Distance (dH) Along Roadway from Crossing (ft)
0	n/a
5	50
10	70
15	105
20	135
25	180
30	225
35	280
40	340
45	410
50	490
55	570
60	660
65	760
70	865

Source: R-H Grade Crossing Handbook Table 36 (pp. 132-133)

Notes:

All calculated distances are rounded up to the next higher 5-foot increment.

Distances indicated are for 65-ft double bottom semi-tractor trailers on dry level pavements.

Stopping Sight Distance is to be measured on each roadway approach to crossing from stop bar.

Bicycle & Pedestrian Clearing Sight Distances

Clearing Sight Distance from Stop Position*											
Crossing of one track								Crossing 2 Tracks		Crossing 3 Tracks	
Train Speed	Car	Single-unit Truck	Bus	WB-50 Semitruck	65-foot Double Truck	Pedestrian ¹	Bicyclist ²	Pedestrian ¹	Bicyclist ²	Pedestrian ¹	Bicyclist ²
10	105	185	200	225	240	120	100	180	120	240	140
20	205	365	400	450	485	240	200	360	240	480	270
25	255	455	500	560	605	300	250	450	290	590	340
30	310	550	600	675	725	360	290	530	350	710	410
40	410	730	795	895	965	480	390	710	470	950	540
50	515	910	995	1,120	1,205	590	490	890	580	1180	670
60	615	1,095	1,195	1,345	1,445	710	580	1060	700	1420	810
70	715	1,275	1,395	1,570	1,680	830	680	1240	810	1650	940
80	820	1,460	1,590	1,790	1,925	950	780	1420	930	1890	1080
90	920	1,640	1,790	2,015	2,165	1060	870	1 590	1040	2120	1210

^{*}A single track, 90-degree, level crossing

¹ Walking 3.5 feet per second across tracks 15 feet apart, with a 2-second reaction time to reach a decision point 10 feet before the center of the first track, and clearing 10 feet beyond the centerline of the second track.

² Bicycling 8 miles per hour across tracks 15 feet apart, from a stopped position 10 feet before the center of the first track with an acceleration of 2.5 feet per second, and clearing 10 feet beyond the centerline of the second track on a bike of 6 feet length.

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Case No(s). 21-0635-RR-FED

Summary: Application In the Matter of a Request for the Installation of Active Warning Devices at the Chicago Ft. Wayne & Eastern Railroad Crossing, Pevee Road/TR 237, DOT#532-686H in Allen County, Ohio. electronically filed by Mrs. Jill A Henry on behalf of PUCO/Rail Division