Public Utilities Commission of Ohio

Memo

To: Docketing Division

From: Jill Henry, Rail Specialist, Rail Division

Cc: PUCO Legal Department

Date: 1/26/2022

Re: PUCO Case No. 22-63-RR-FED- In the Matter of a Request for the Installation of Active Warning Devices at the Indiana & Ohio Railway Grade Crossing, DOT#151-326G, on Goshen Road/CR 57 in Clermont County, Ohio.

On December 31, 2019, the Ohio Rail Development Commission (ORDC) authorized funding for Indiana & Ohio Railway (IORY) to install lights and gates at Goshen Road/CR 57, DOT#151-326G in Clermont County, Ohio. The crossing was surveyed, on July 25, 2019, and was found to warrant the upgrade. The electric utility provider for this crossing is Duke Energy Ohio.

The project will be paid for with federal funds and is actual cost. The plans and estimates for the project in the amount of \$278,101.00 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:

Indiana & Ohio Railway Company Jared Rishel AVP Engineering Northern Region Genesee & Wyoming Inc. 4349 Easton Way Suite 110 Columbus, OH 43219

Alfred Benesch & Company Ben Biesterveld G&W Consultant 4614 Red Fox Road Oshkosh, WI 54904

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

Clermont County Engineer Jeremy Evans County Engineer 2381 Clermont Center Drive Batavia, OH 45103

Duke Energy Ohio

OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO: John Williams, Transportation Director, PUCO

FROM: Allen Bell, Manager, Safety Section, ORDC

BY: Eric Thompson, Project Manager, Safety Section, ORDC

SUBJECT: Clermont County-Co Rd. 57 Goshen DOT# 151326G PID# 111189

DATE: 11/30/2021

The Ohio Rail Development Commission (ORDC) established a diagnostic survey at the subject location on July 25, 2019. The Public Utilities Commission of Ohio (PUCO) attended the review. The Diagnostic Team recommended the improvement of warning devices to flashing lights and roadway gates. Copies of the diagnostic review form and the plan and estimate are attached.

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: Diagnostic Review

Letter Agreement PE Authorization

Plan, Estimate & Material List Construction Authorization

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



Mike DeWine, Governor Jon Husted, Lt. Governor

Scott Corbitt, Chairman

Mr. Len Wagner President & Legal Official (SVP) Genesee & Wyoming/IORY 200 Meridian Centre Suite 270 Rochester, NY 14618

RE: Construction Authorization Grade Crossing Warning Device Improvements

Clermont, Goshen Rd.,/CR57, DOT#151326G, PID#111189

Dear Mr. Wagner:

The plan dated 6/4/2021 and estimate dated 8/26/2021, for the referenced project is acceptable. Genesee & Wyoming/IORY may proceed with the construction of the proposed grade crossing warning system in accordance with the abbreviated plan.

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. Reimbursement of eligible actual cost is limited to \$278, 101.00. 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 IORY accepting the following instructions:

- 1. IORY's project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to IORY, ORDC, Eric.Thompson@dot.Ohio.Gov (513) 312-0530, and to the Public Utilities Commission of Ohio, email Jill.henry@puc.state.oh.us. IORY'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. IORY 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 IORY.
- 3. IORY's project foremen will notify Eric Thompson at (513) 312-0530 or Eric.Thompson@dot.Ohio.gov 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. IORY will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed Purchase Order to reference when billing.
- 6. IORY 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,

Eric Thompson Project Manager

Attachment: ODOT P.O.

C: John Williams, Director Transportation, PUCO Jill Henry, Rail Division Chief, PUCO ORDC (file)

Force Account Estimate

Estimate to Complete

Railroad:	Indiana & Ohio Railway Company (IO	RY) Region:	MIDWE	ST
Agency:	ORDC	State:	ОН	
DOT #:	151326G	COUNTY:	Clermo	nt
ROADWAY:	CR 57 / Goshen Rd	CITY:	Goshe	
with 2-tie	on of Cantilever and gate combos, cantiler berm wall in NE quad, two bells, new 6 35' guardrail, 2 new property gates, rem	6x6 bungalow with PMD-4R and above		
AGENCY PROJECT NUMBE	R: PID 111189	ESTIMATE SUBJECT TO REVISION A	AFTER: 0	2/22/22
PRELIMINARY ENGINEERING: Contracted & Administrative Engine	eering Services		\$	13,100
Subtotal			\$	13,100
				-,
CONSTRUCTION & CLOSEOUT:				
Contracted & Administrative Engine	eering Services		\$	21,100
Subtotal			\$	21,100
FLAGGING SERVICE:				
Contracted or Railroad Flagmen Se	rvices 10 [Days	\$	14,000
Subtotal	_	•	\$	14,000
UTILITY WORK:				
Power Service			\$	10,135
Other Subtotal			\$ \$	6,980 17,115
Subtotal			Ψ	17,113
CONTRACT WORK:				
Outside Services			\$	-
Design & Labor & Material			\$	212,786
Subtotal			\$	212,786
RAILROAD TRACK:				
Labor & Material			\$	_
Subtotal			\$	-
RAILROAD SIGNAL & COMMUNIC	CATION:			
Labor & Material			\$	-
Subtotal			\$	
PROJECT SUBTOTAL:			\$	278,101
Public Project Admin:	0.00%		\$	-
Contingencies:	0.00%		\$	-
PROJECT TOTAL:	**************************************		\$	278,101
CURRENT AUTHORIZED BUDGETOTAL SUPPLEMENT REQUESTI	<u>L</u>		\$	- 278,101
TOTAL OUT I LEMENT NEWOLOTT	 -		7	270,101
DIVISION OF COST:				
Agency	100.00%		\$	278,101
Railroad	0.00%		\$	-,

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: <u>01/06/20</u> REVISED: <u>08/26/21</u> DATE: 08/26/21

INDIANA & OHIO RAILWAY

GOSHEN ROAD GOSHEN, (CLERMONT), OHIO DOT# 151 326G MILEPOST# 29.94

	INDEX
SHEET	DESCRIPTION
00	TITLE AND INDEX
Ø1	CROSSING TRACK LAYOUT
Ø2	PMD-4R CIRCUITRY & PROGRAM
Ø3	CROSSING CONTROLLER CIRCUITRY
Ø4	GATE/CANT LIGHTING CIRCUITRY
Ø5	GATE MECH CIRCUITRY
Ø6	DATA RECORDER CIRCUITRY
Ø7	DC POWER DISTRIBUTION
Ø8	SIDE D DETAIL - AC POWER DISTRIBUTION
Ø9	SIDE B DETAIL - TERMINAL BOARD
10	SIDE A DETAIL
11	SIDE C DETAIL
12	TRACK AND CABLE LAYOUT
13	
14	
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REVISIONS

THE OPERATION OF THE CIRCUIT
EQUIPMENT REPRESENTED HER
CANNOT BE FULLY CHECKED UI
ALL CIRCUITS AND DEVICES A
CONNECTED TO FORM A COMPL
SYSTEM, OR AN EFFECTIVE
SUBSYSTEM, SUCH SYSTEM, SUCH SYSTEM, SUCH SYSTEM
SUBSYSTEM MUST BE GIVEN
COMPLETE CIRCUIT AND
OCCUPATIONAL TEXTS DESCRIPT.

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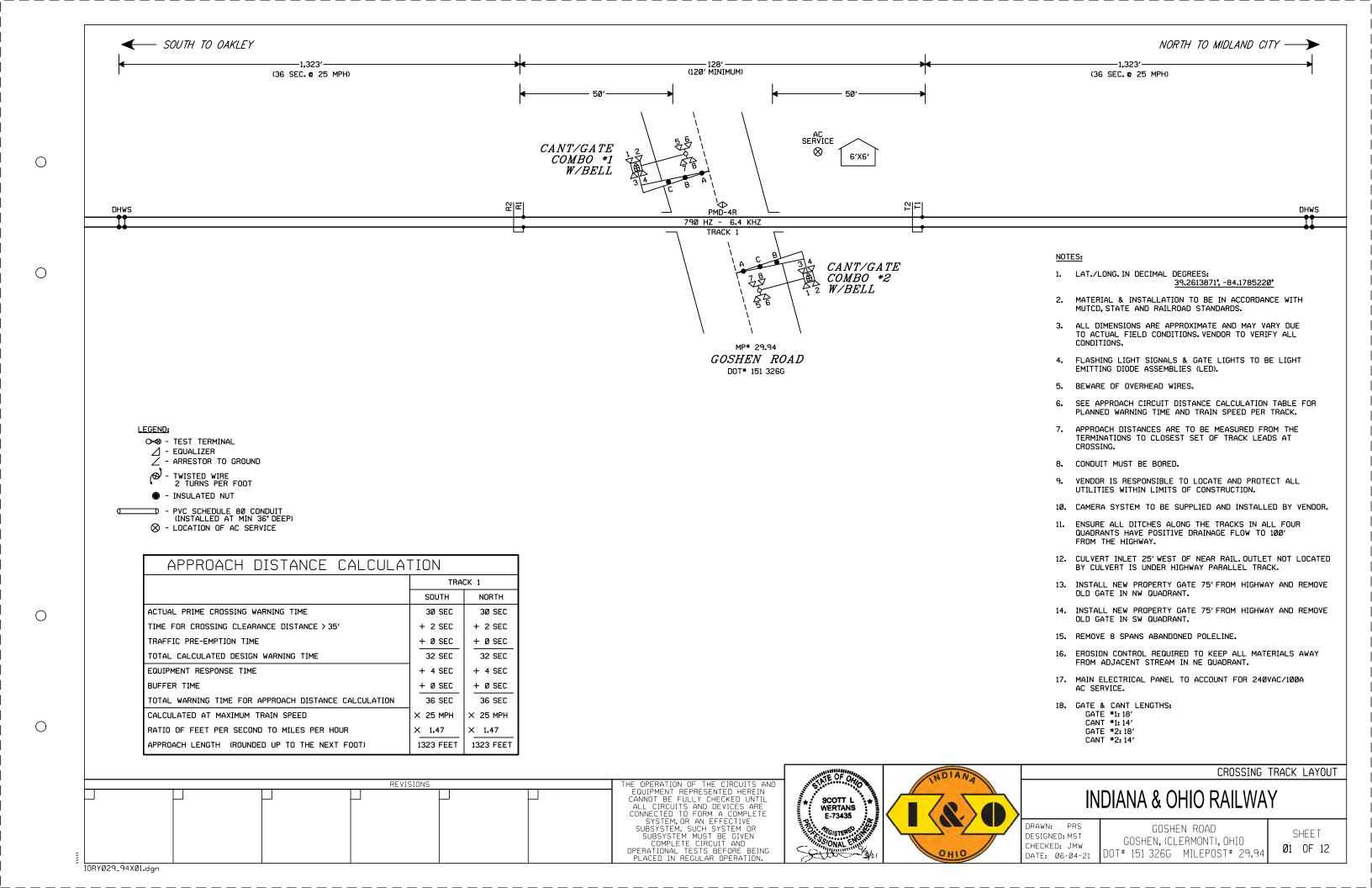


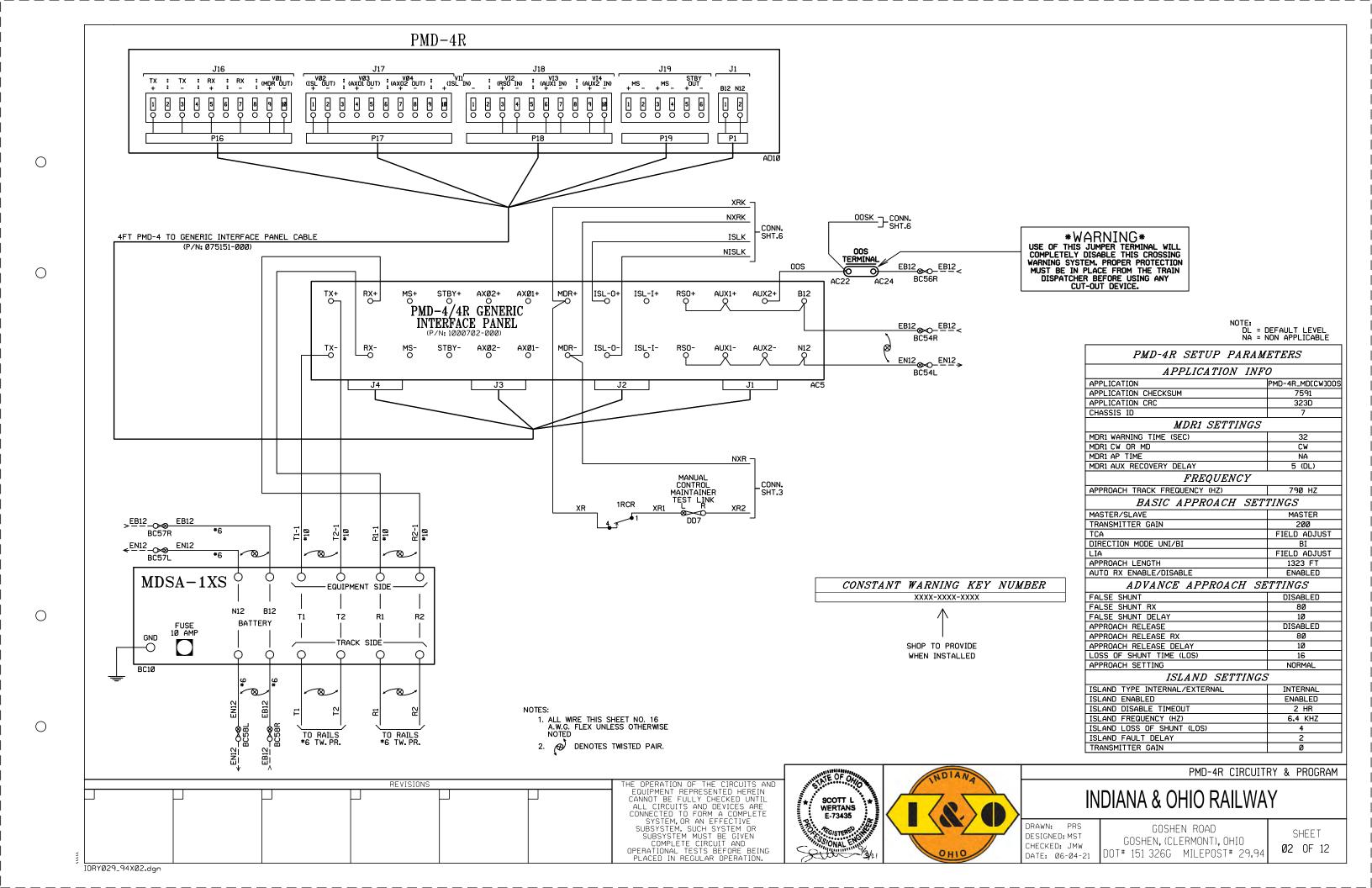
TITLE AND INDEX

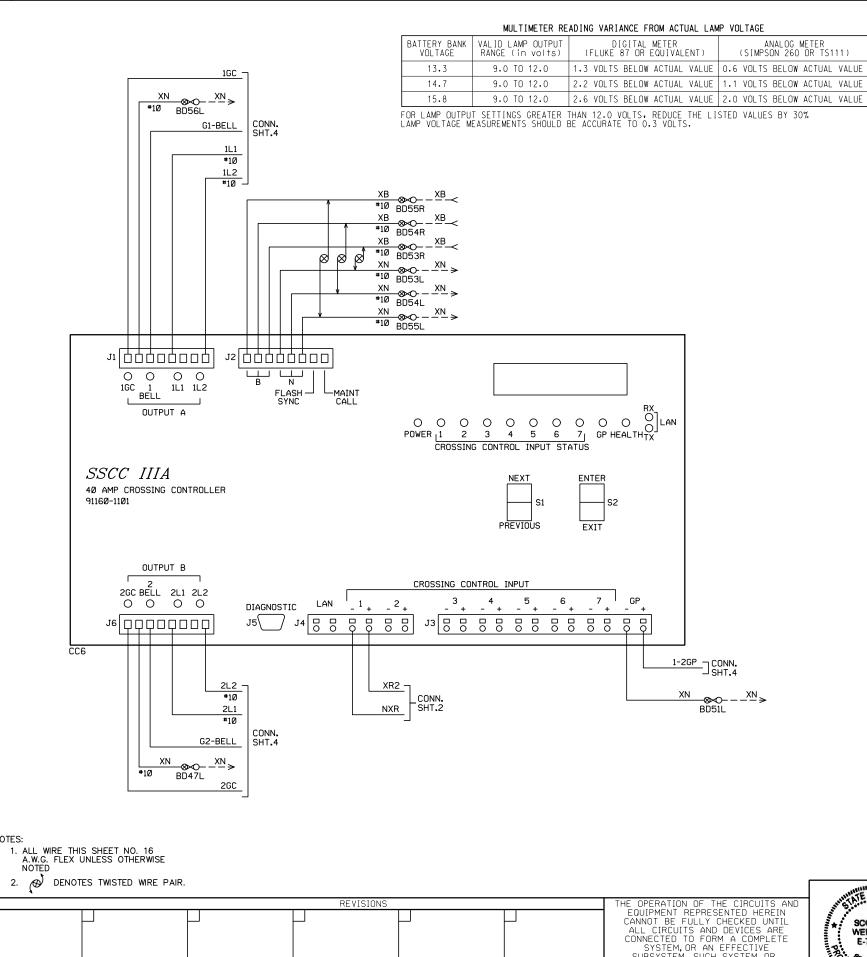
INDIANA & OHIO RAILWAY

DRAWN: PRS
DESIGNED: MST
CHECKED: JMW
DATE: 06-04-21

GOSHEN ROAD GOSHEN,(CLERMONT),OHIO DOT# 151 326G MILEPOST# 29.94 SHEET **00 OF 12**







PROGRAM	NOTES	INITIAL SETTING BY:	
FLASH RATE:	30-70 FLASHES/MINUTE DEFAULT = 50		
GATES USED:	YES/NO DEFAULT = YES	Ø YES □ NO	
1GC DELAY:	3-20 SEC., DEFAULT = 4	4 SECONDS	
2GC DELAY (40A UNIT):	3-20 SEC., DEFAULT = 4	4 SECONDS	
GATE RISING BELL:	ON/OFF, DEFAULT = ON	□ ON 🗹 OFF	
ENABLED INPUTS:	1 THRU 1 ONLY	1 1 1 1 1 1 1 1 1 1	
MIN ACTIVATION TIME:	0-30 SEC., DEFAULT = 0	o SECONDS	
ENABLED OUTPUTS: (40A ONLY)	DEFAULT = A + B	G∕A+B □A □B	
DAYLIGHT SAVINGS:	DEFAULT = DISABLED	⊠ ENABLED □ DISABLED	
DATE:	N/A	□ DATE SET	
TIME:	24-FORMAT	□ TIME SET	
PASSWORD:	DEFAULT = DISABLED	□ ENABLED ☑ DISABLED	
CONF I GURE			
LOS TIMERS:	0-20 SECONDS. INPUTS 1-7 ONLY DEFAULT = 0	1: 0 SEC. 5: N/A SEC. 2: N/A SEC. 6: N/A SEC. 3: N/A SEC. 7: N/A SEC. 4: N/A SEC.	
ATCS ADDRESS:	DEFAULT = 70000000000		
LOW BATTERY:	9.0-15.0 VOLTS, OR DISABLED DEFAULT = DISABLED	☑ DISABLED □ ENABLEDVOLTS	
AUX [/0:	DEFAULT = NONVITAL OUTPUT	⊠'NV OUTPUT □ FLASH SYNC IN □ FLASH SYNC OUT	
DETECT LAMP NEUTRAL WIRE	YES/NO DEFAULT = NO	□ YES 🗹 NO	
TEST CONFIGURE			
LAMP TEST CANCEL TIMER:	1 - 15 MINUTES, DEFAULT = 5	5 MINUTES	
LAMP TEST DELAY TIMER:	30 - 120 SEC., DEFAULT = 30	30 SECONDS	
LAMP TEST ON TIMER:	15 - 60 SEC., DEFAULT = 15	15 SECONDS	
QUERY		·	
QUERY CONFIG VERSIONS:		MCF NAME: BASIC.MCF.F	
		MCF CRC:	
		CAPABILITY NAME:	

ODOCCING CONTROLLED CCCCLLLA AO ANDEDE UNIT DAACO AAOA

SETUP LAMP VOLTAGES	INITIAL SETTING DATE: // METER:	
	1L1=	
FAR GATE	1L2=	_VOLTS
FAR GAIL	2L1=	_VOLTS
	2L2=	_VOLTS
SSCCIIIA	1L1=	_ VOL TS
	1L2=	_VOLTS
	2L1=	_VOLTS
	2L2=	_VOLTS
	1L1=	_ VOLTS
NEAR GATE	1L2=	_VOLTS
	2L1=	_VOLTS
	2L2=	VOLTS

STANDARD SETUP LAMP VOLTAGES PROCEDURE
USING TRUE RMS AC+DC METER, OR CONVERSION TABLE BELOW

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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.

SCOTT L WERTANS E-73435 SONAL EN Sellen



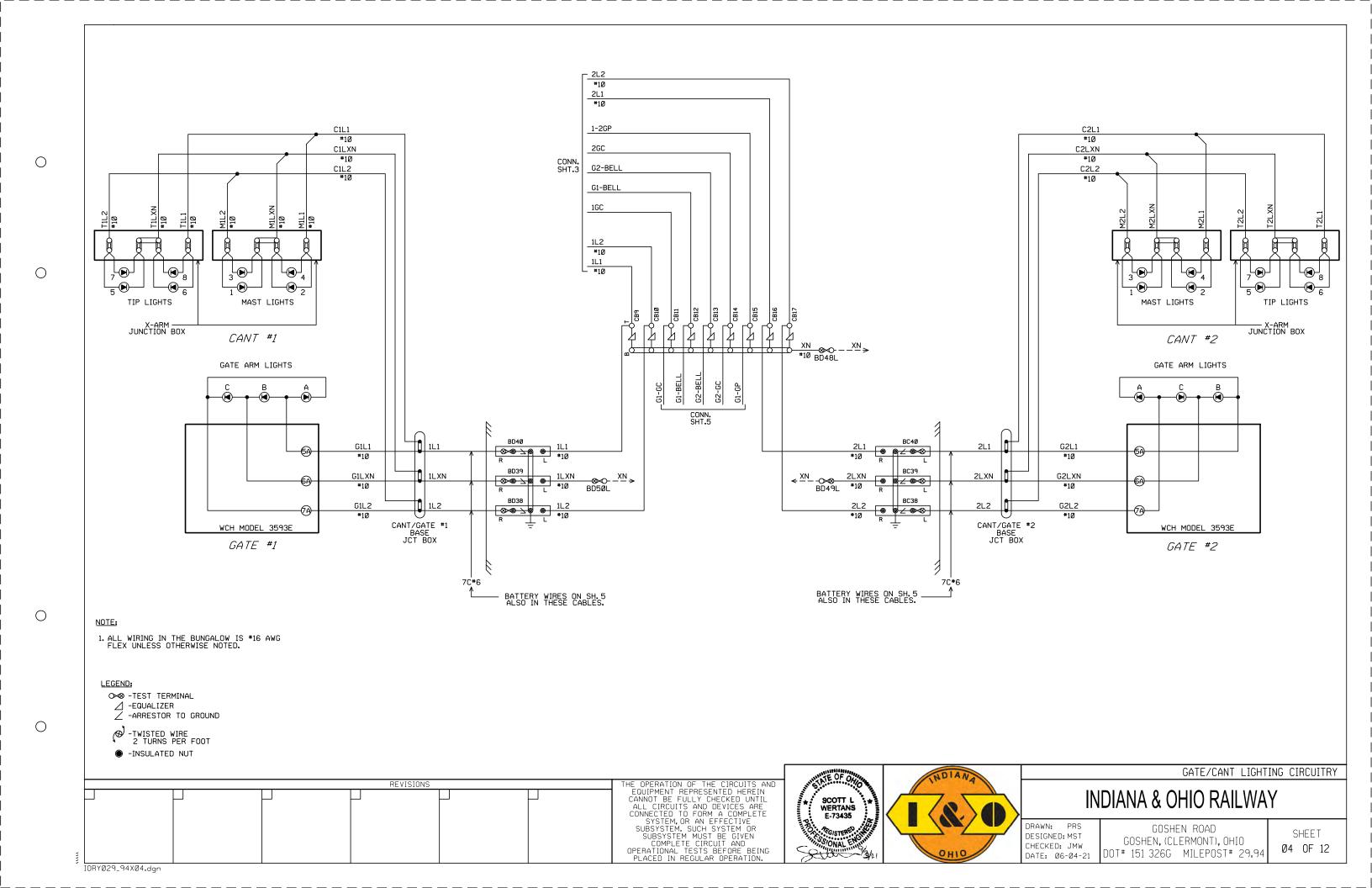
CROSSING CONTROLLER CIRCUITRY

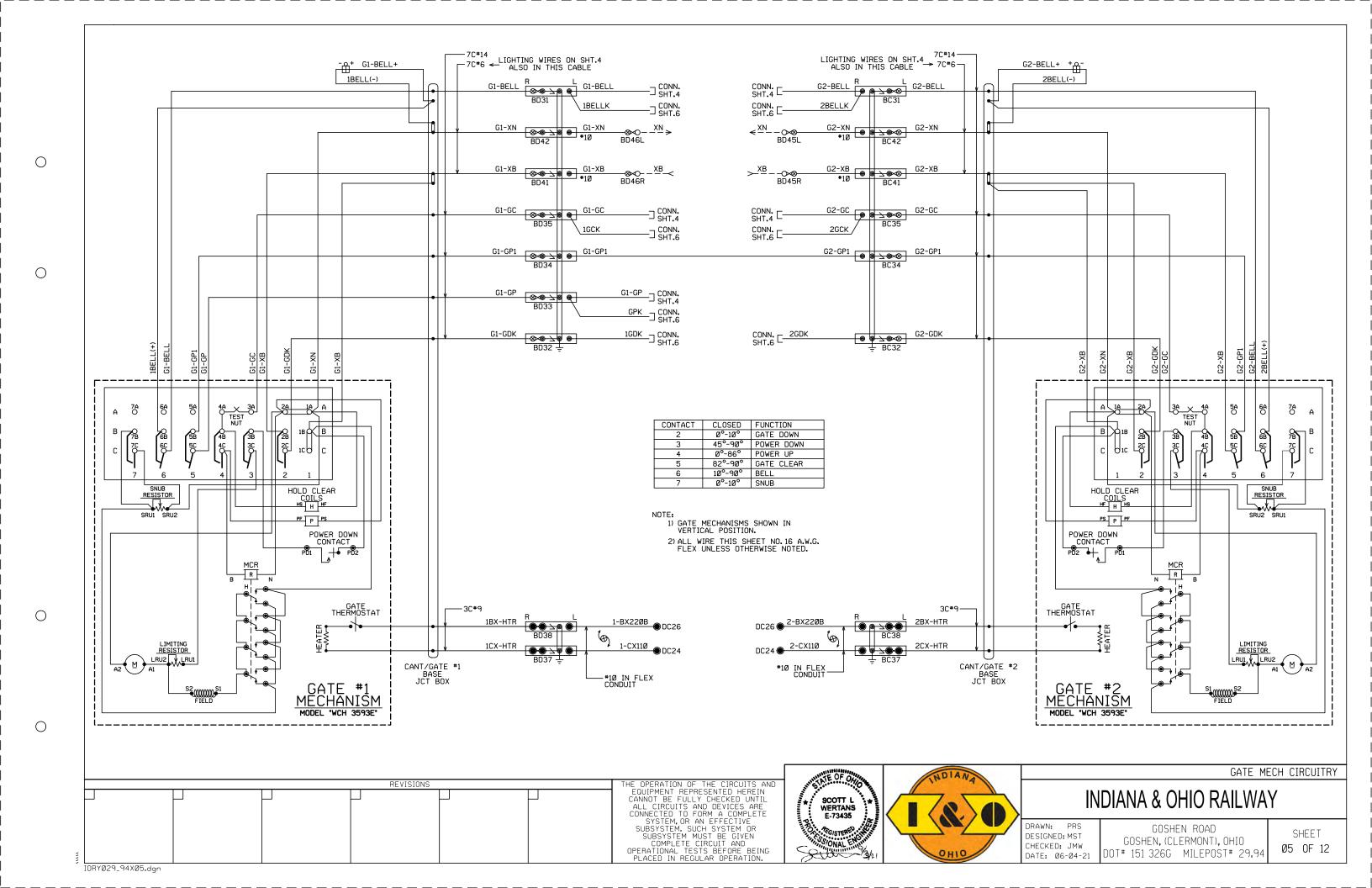
INDIANA & OHIO RAILWAY

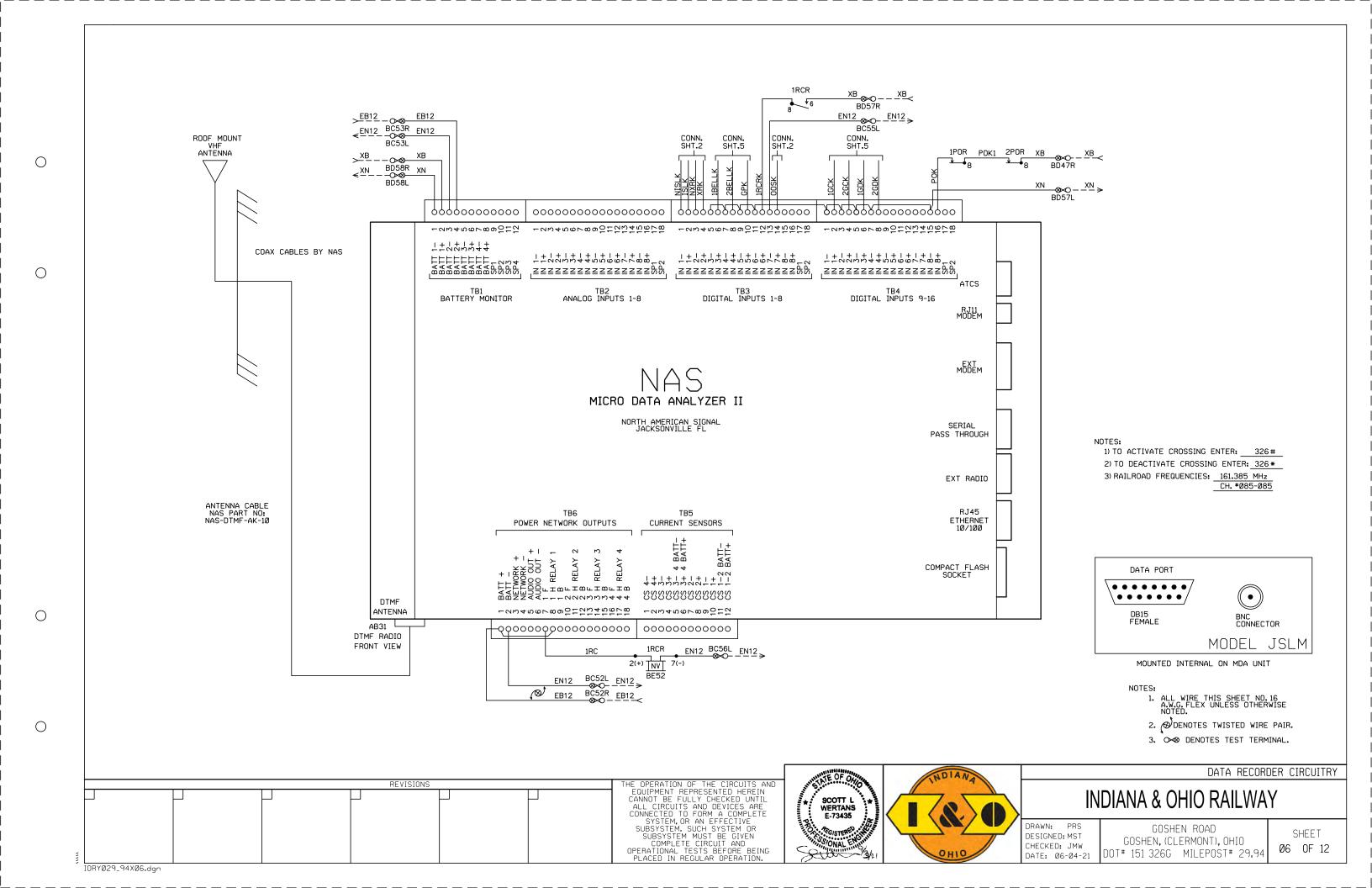
DESIGNED: MST CHECKED: JMW DATE: 06-04-21

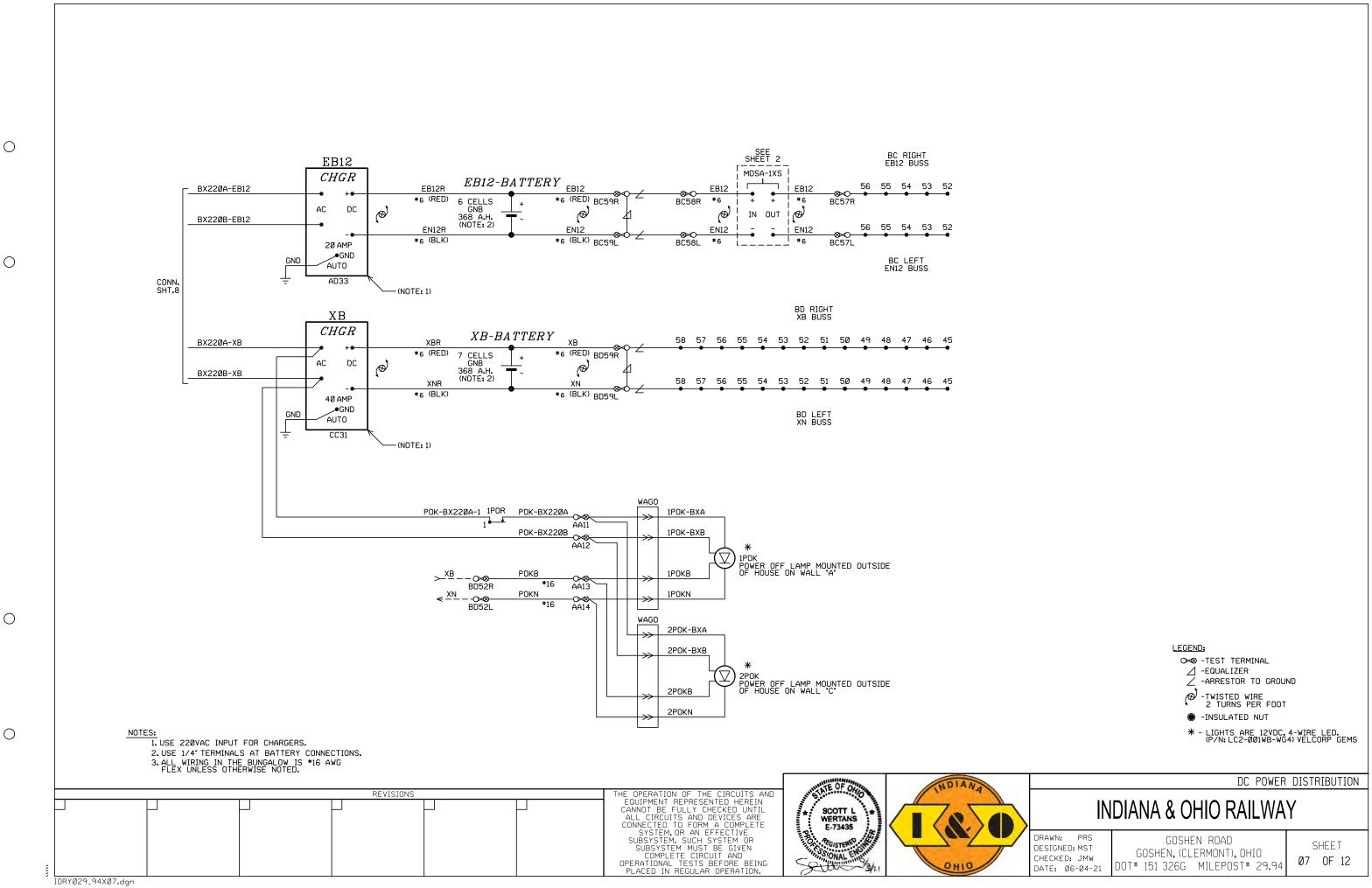
GOSHEN ROAD GOSHEN, (CLERMONT), OHIO DOT# 151 326G | MILEPOST# 29.94

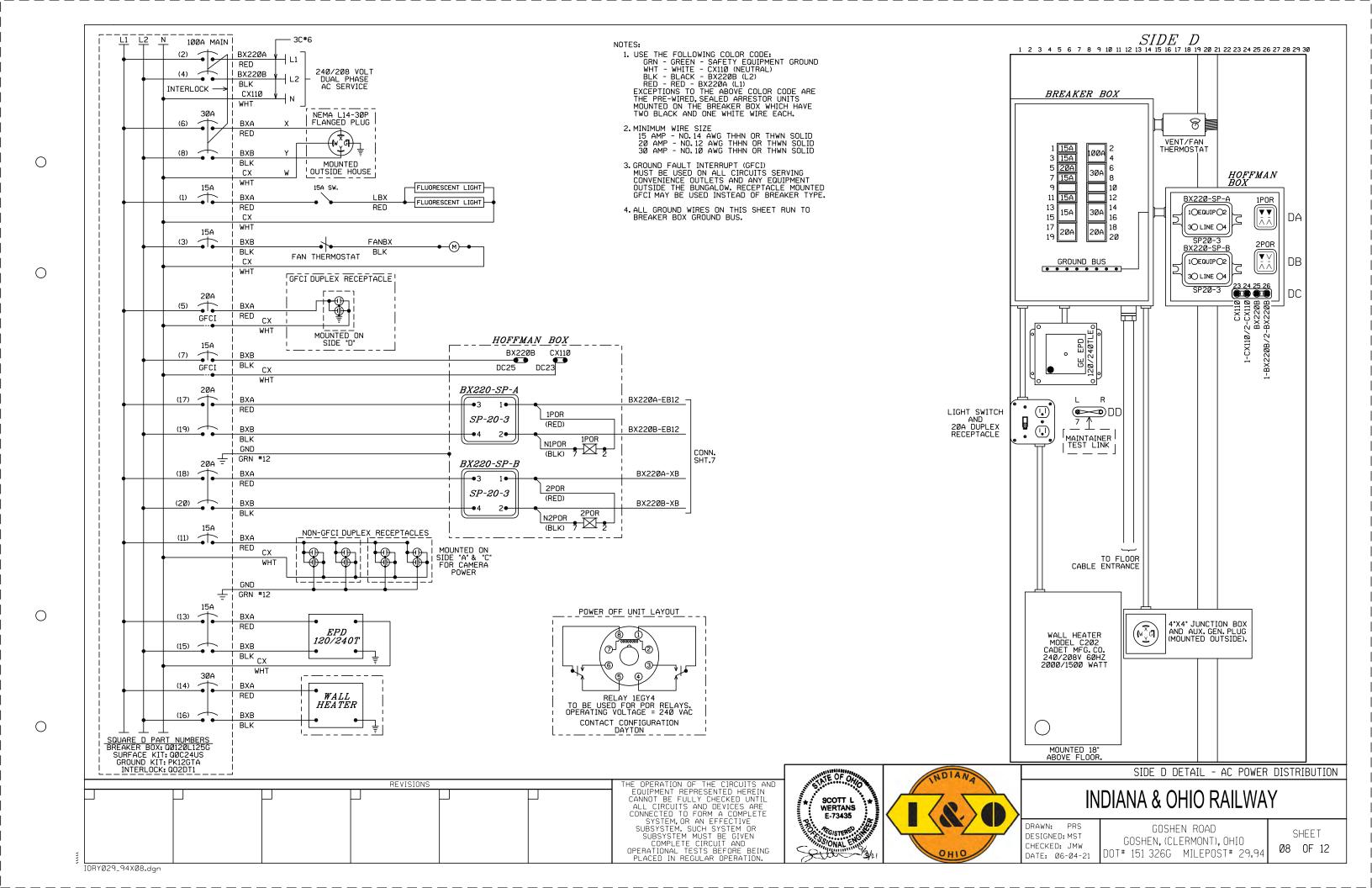
SHEET Ø3 OF 12

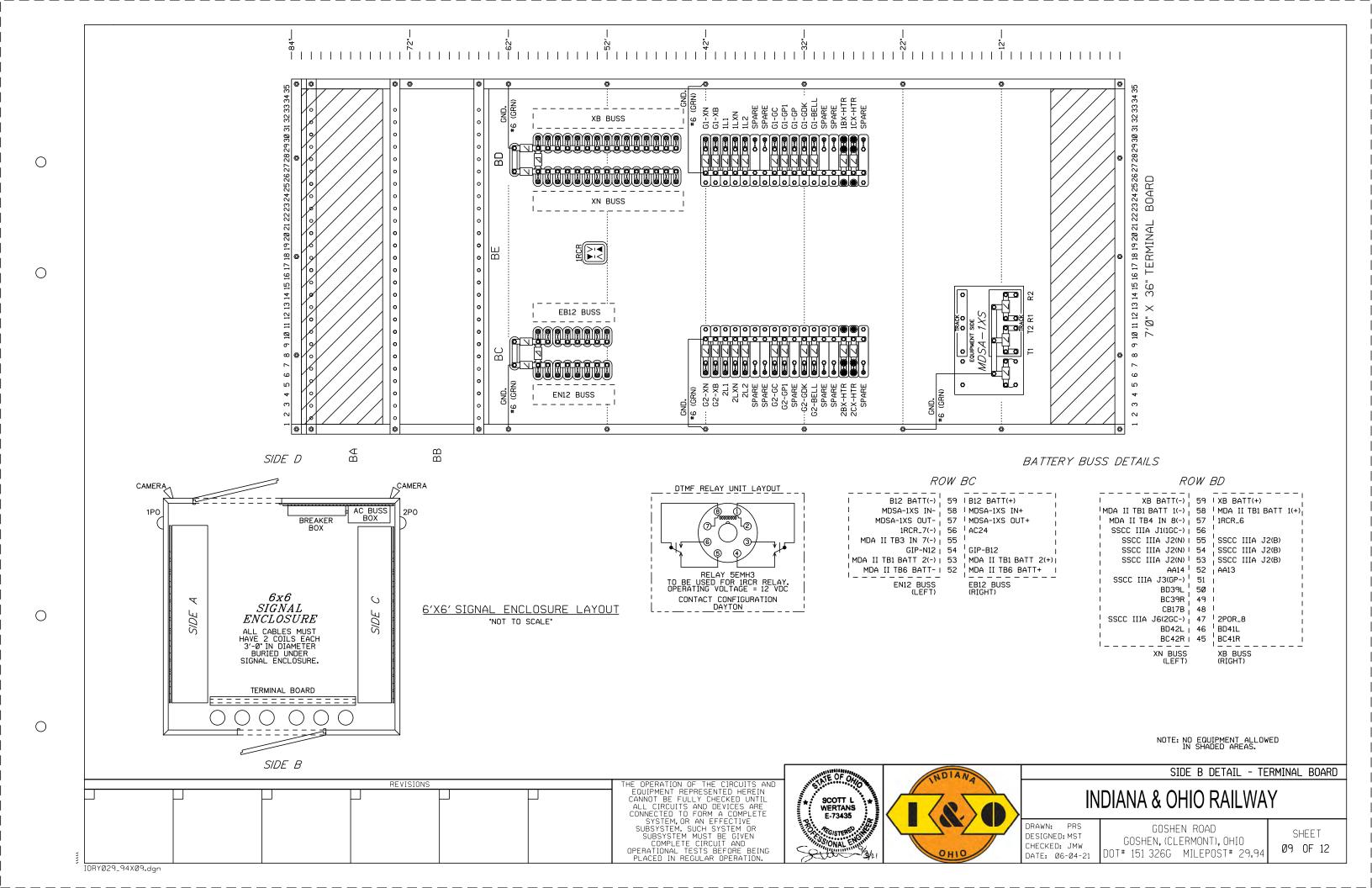


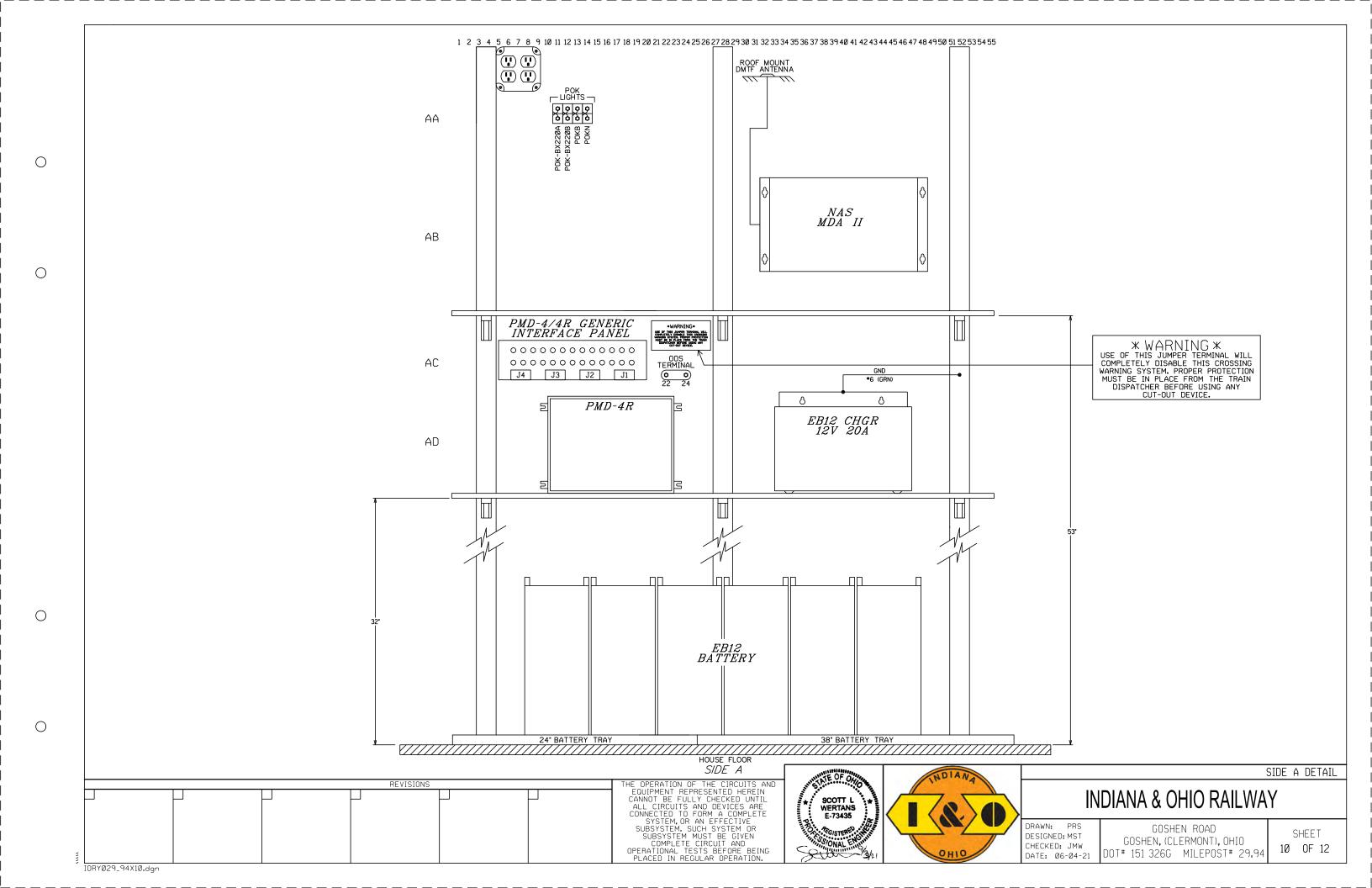


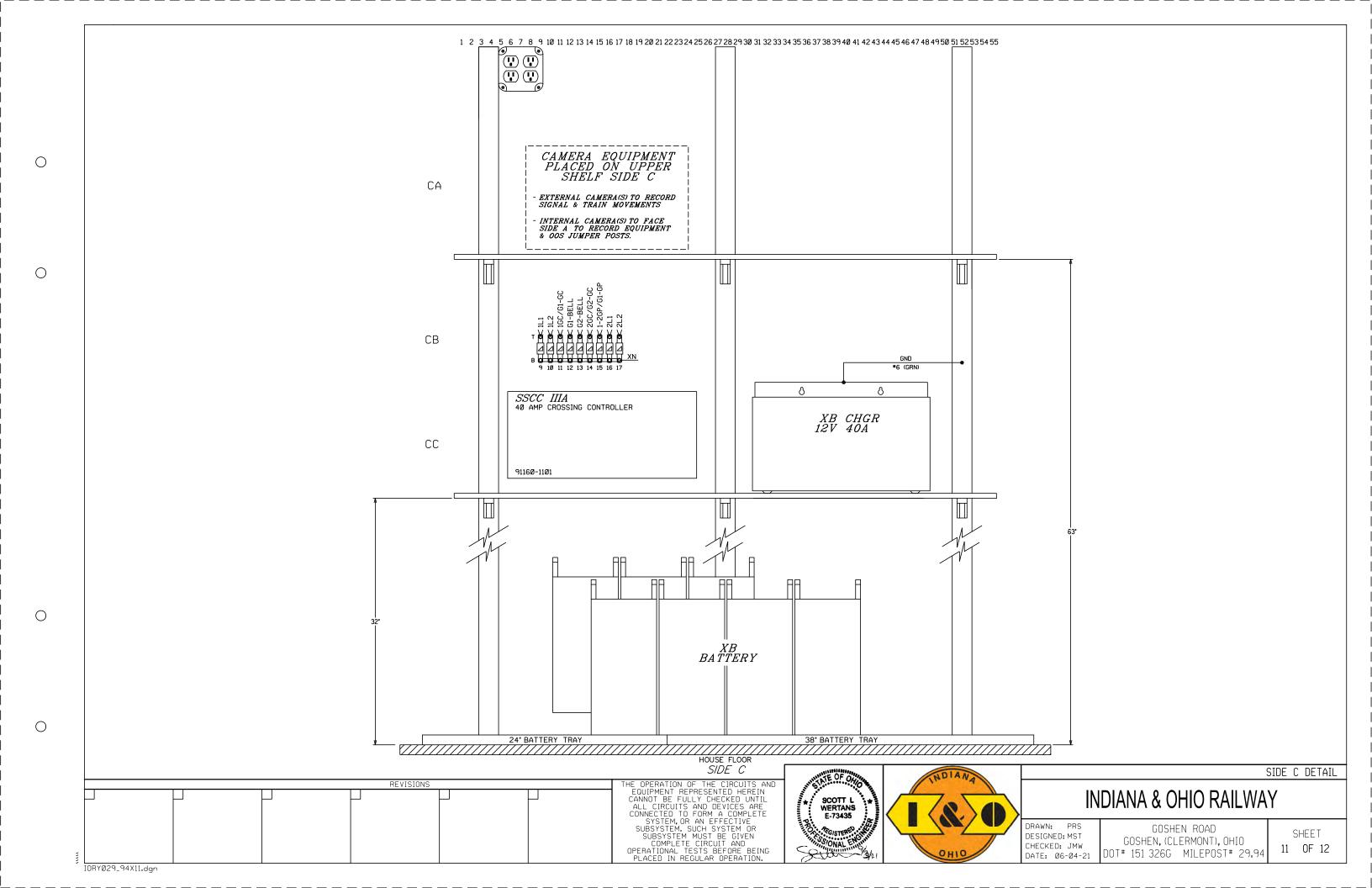


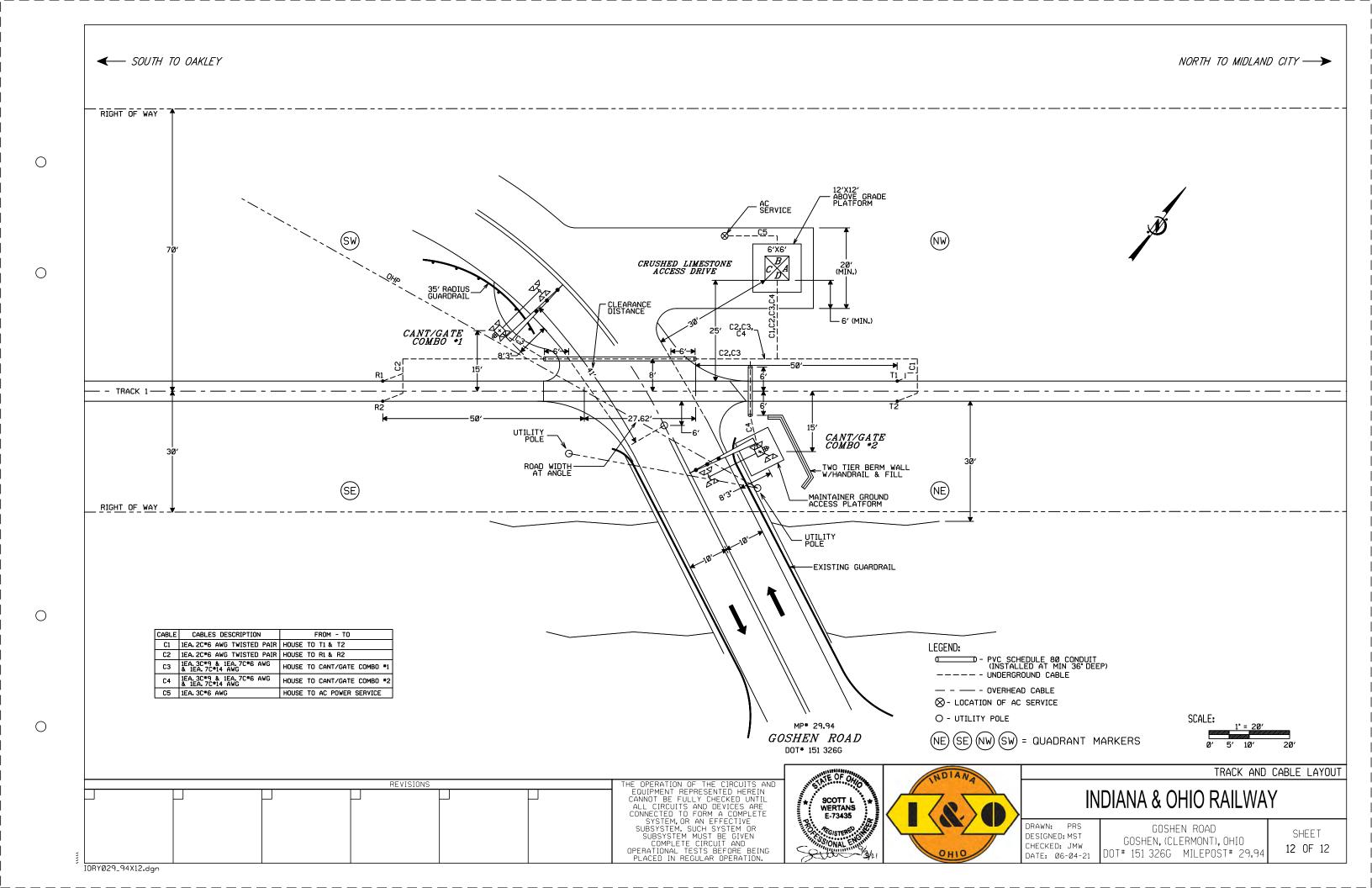














Mike DeWine, Governor Jon Husted, Lt. Governor

Mark Policinski, Chair

12/31/2019

Indiana & Ohio Railway 13901 Sutton Park Dr STE 345 Jacksonville, FL 32224

RE: Clermont County Goshen Rd./CR57 DOT # 151326G

Dear Mr. Jacob Smith:

A diagnostic review was held at the above grade crossing on 7/25/2019. The crossing has been recommended for the installation of lights, gates and cantilevers.

Indiana & Ohio Railway is authorized to proceed with the site plans and cost estimates or bid package 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 railroad 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 diagnostic review form is attached. Please note any recommendations (page 5), if any, made by the team about requirements for this location. Any minor roadway work necessary for MUTCD compliance should be incorporated into the PE and such costs will flow through the railroad reimbursement process.

The Project Manager for this project is Michael Lynch can be reached at (614) 395-1824, or Michael.Lynch@dot.ohio.gov, if you have any questions.

Sincerely,

Project Manager

Michael Lynch

C: Randall Schumacher, Chief, Rail Division, PUCO Jill Henry, Rail Specialist, PUCO Heather Hamilton, ORDC ORDC (file)

Attachments: 3 (diagnostic review form, letter agreement, purchase order)



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

October 15, 2019

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

Re: Clermont County, Goshen Road/CR 57, DOT#151-326G, 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 25, 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. 5773, dated February 16, 1989, entered into by the State of Ohio and Indiana & Ohio 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 Goshen Road/CR 57 Clermont County Indiana & Ohio 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.

Sincerely,

John D. Williams

Director, Transportation

Public Utilities Commission of Ohio

	1. 0	4
Indiar Bv	Martin he holded	Matthew Dietrich Executive Director
Title	President	Ohio Rail Development Commission
Dota	11-1-19	Date

Page 2 of 2 Goshen Road/CR 57 Clermont County Indiana & Ohio 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.

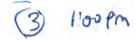
Sincerely,

John D. Williams

Director, Transportation

Public Utilities Commission of Ohio

	4
Indiana & Ohio Railroad	Wh The
	Matthew Dietrich
Ву	Executive Director
Title	Ohio Rail Development Commission
Date	Date 10 - 25 - 19



CR 57 / Goshen Road (DOT #151326G), Clermont County, Indiana & Ohio Railway 7/25/2019

Crossing at a glance: Rank 593

ORDC Notes:

Constituent complaint 4/19-Rough track. Streets are curved on track approach.

Please Sign In

Michael	Lynch Proje	t Manager ORDC
Name	Title	Organization
	614-395-1824	michael.lynch@dot.ohio.gov Muchaeld.com
	Phone Number	Email Signature
Stephen	Baker	PUCO
Name	Title	Organization
	513-673-7627	stephen.baker@puco.ohio.gov
	Phone Number	Email Signature
Chris Ho	rton	IORY (4/7 (Hall
Name	Title	Organization
	513-222-8086	chris.horton@gwrr.com
	Phone Number	Email Signature
Doug Ro	yer	Clermont County
Name	Title	Organization
		droyer@clermontcountyohio.gov
	Phone Number	Email Signature
Jeremy E	vans	Clermont County
Name	Title	Organization
		jpevans@clermontcountyohio.gov
	Phone Number	Email Signature
Woody W	/oodmansee	Clermont County
Name	Title	Organization (1)
	513-732-8888	wwoodmansee@clermontcountyohio.gov / wody Codnesses
	Phone Number	Email Signature
Name	Title	Organization 1 10 1 -
	513-732-80	
	Phone Number	Email Signature
Jell	Sm. Hr	Clermont county
Name	Title	Organization
	Phone Number	Email Signature

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

Date: 7/25/2019

Location Data	A CHARLES	A THE REST			
Street or Road Na	ime:	С	R 57 / Goshen R	oad	
County:	Clermont	Township: US DOT No.: 1513			151326G
City (in or near):	near Goshen	Railroad Name:	IORY	RR Milepost:	29.94
Safety Data (Obtain crash repo				
		Initial Information	on (from database)		Revised
Number & dates o previous 5 years:	f vehicle crashes in	NONE			
Number & dates o crashes in previous	of pedestrian/bicycle s 5 years:	NONE			
Hazard Ranking:	593	Date Run:	03/18/2019		

Type of Warning Devices	Installed?		Quantity/Comments	
HIGHWAY				
Advance Warning Signs (condition?)	✓ Yes	□ No	GOOD	
'Stop' Signs	✓Yes	□ No	0000	
'Stop Ahead' Signs	☐ Yes	Ø No		
Pavement Markings (condition?)	Yes	□ No	6000	
Dynamic Envelope Markings (condition?)	☐ Yes	☑ No		
Illumination	☐ Yes	☑ No		
'No Turn' Signs (highway/passive)	☐ Yes	☑ No		
Barriers/fencing (pedestrian/bicycle)	☐ Yes	Ø No		
LOOK Sign	☐ Yes	☑ No		
Do Not Stop On Track Sign	☐ Yes	Ø No		
RAILROAD				
Crossbucks	☐ Yes	Ø No		
Crossbucks – assembly with Stop	✓ Yes	□ No		
Crossbucks – assembly with Yield	☐ Yes	Ø No		
Mast-Mounted Flashing Lights	☐ Yes	Ø No		
Cantilever Flashing Lights	☐ Yes	Ø No	Number:	Length:
Side Lights	☐ Yes	☑ No		
LED or Incandescent Lights? Size?	☐ Yes	☑ No		
Automatic Gates	☐ Yes	Ø No	Number:	Length:
Bells	☐ Yes	Ø No	Number:	
Sidewalk/Pedestrian Gate Arms	☐ Yes	Ø No	Number:	Length:
'No Turn' Signs (railroad/active)	☐ Yes	Ø No		
Is crossing flagged by train crew?	☐ Yes	Ø No		
OTHER	☐ Yes	□ No		

Railroad Data		
Type of Train: ☑ Freight ☐ Intercity Pa	ssenger 🗆 Transit 🗆 Shared Use Transit 🗀 Coi	mmuter Tourist/Other
Railroad Characteristics	Initial Information (from database)	Revised
Total trains per day	6	4
< I per day? Trains per week	7	
Day thru trains	4	2
Night thru trains	2	2.
Switching	0	
Total number of tracks	1	
Number of main tracks	1	
Number of other tracks		
Maximum train speed	25 /	
Typical train speed	10-25 /	
Amtrak		
Are there other track(s) crossing this same	e roadway within 100ft of this crossing?	Ø No
If yes, Crossing DOT# (if different)		
If yes, distance	(take measurement between track centerlines a	t closest point along roadway)
If multiple tracks, can two trains occup	y crossing at the same time?	SINGLE TRACK
Can one train block the motorists' view	v of another train at the crossing? Yes (explain	
Can one or more tracks be eliminated	through the crossings?	
Comments:		
Circuitry: Constant Warning Time	☐ Motion Detection ☐ AFO ☐ PTC ☐ DC ☑	Other PASSIVE

Roadway Data			
Local Highway Authority:	Clermont County		
Roadway Characteristics	Initial Informatio	n (from database)	Revised
Average Daily Traffic	A	38	2,400
Highway Paved	☑ Yes ☐ No		☐ Yes ☐ No
Roadway Surface: ☑ Blacktop ☐ Gravel ☐	Concrete Other		
Roadway width (paved/travelled way):	O ft		
Number of Highway Lanes		2	
Urban or Rural	Rural	- Local	
Vehicle Speed: 40 MPH			
School Bus Operation: Yes No	Amount 4-6		
Location of nearby schools: GosHeN	LOCAL		
	No Amount (fro	m FRA)5%	LHA verified/changed?
Shoulders: ☐ Yes ☐ No			
Is the Shoulder Surfaced? ☐ Yes ✓ No	If yes, shoulder widt	h:ft.	
Is there existing guardrail along the roadway is	n crossing vicinity?	ſes □ No	EAST SIDE OF CROSSING.
Crossing Angle □ 0-29° □ 30-59° ☑ 60-90	Measured in	Quadrant?	
Quadrant Curb & Gutter:	Quadrant Curb & Gutter: Quadrant Curb & Gutter:		
☐ Functional (Curb height = 4" or more)		☐ Functional (Curb I	neight = 4" or more)
□ Non-functional (Curb height = less than 4"		□ Non-functional (C	urb height = less than 4")
None	None		
Is there a nearby intersection that could cause	queuing over the cros	sing? 🗆 Yes 📈	No
If yes, distance			
Is this intersection signalized?	ØN₀		
Are there signals currently interconnected wi	th the existing crossing	warning devices?	Yes No
Is there a 'Do Not Stop on Track' sign?	Yes 🗹 No		
Is a roadway improvement project (e.g. widen location in the foreseeable future? Yes	ing, turn lanes, nearby No	new or upgraded traffic	signal, sidewalk) planned at or near this
If yes:			
Improvement type	Lead Agency	т	imeline/completion

Pedestrian & Bicycle Data
Regular pedestrian usage: ☐ Yes ☐ No Volumes: ☐ Occasional ☐ <20 ☐ 20-60 ☐ >60
Is sidewalk present in the approach? Yes No Quadrants:
Does crossing surface accommodate pedestrians?
Both sides of roadway?
Pedestrian generators in close proximity (e.g. schools, sports/entertainment venues)?
Comments:
Regular bicycle usage:
□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?
Comments:
Utility Information
Is commercial power available? Yes No
Utility Provider (Company Name)
ZALIA ZA
AT CROS/NG.
What other utilities are present? ☐ Gas ☐ Cable ☐ Telephone ☐ Fiber Optic Cable (add locations to sketch) ☐ Petroleum ☐ Water ☐ Sanitary Sewer ☐ Other
Comments: maybe utilities underground. Overhead doesn't present a problem.
10 C W
Surface
Surface review form completed?
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)
AP WE TRANSPORT TO THE PROPERTY OF THE PROPERT
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):
NO
Crossing Consolidation or Closure:
NO
Real Estate or ROW:
NO
Culvert / Drainage / Ballast Conditions:
Yes.
Roadway and/or Sidewalks:
NO
Circuitry (e.g. reaches out to other crossings, specific needs, etc.):
NO
Environmental:
yes. Waterway very close.
might be utilities underground.
Power Pole might need moved to accompade better
Power Pole might need moved to accompade better visibility for Flashing lights

게 그 그는 그 가게 있는 것이 있는 것이 없는 게 하는 게 되는 것이 되었다. 그런 것이 없는 것이 되었다. 그 그리고에 보고 있는 것이 되었다. 그것이 되는 사람이 하나 사람이 없는 것이다.	potential closure project? NO Alternative to						
s it the consensus of the Diagnostic Review Team that this is a potential closure project? NO. NO ALternative to explain reasons: Set around.							
Diagnostic Team Recommendations							
☐ No improvements needed	Quadrants Needed						
Install/upgrade active devices							
☐ Automatic Flashing Lights (AFLS)							
□ AFLS /Cants							
☐ AFLS / Gates							
AFLS / Gates / Cants	Both guads						
Bells / number	TWO.						
☐ Upgrade circuitry / type							
□ Sidelights							
☐ LED Upgrades							
☐ Guardrail Needed	Heavey snow causer cars to stide off. If necessary.						
Install/Replace curb	If macassari						
☐ Bungalow placement & offset from rail & highway	Thecessary.						
☐ Other (define)							
☐ Install/upgrade traffic signal preemption							
☐ Install/upgrade traffic signal preemption Other (define):	"S light ABVANCE WARNING SIGN.						
	"S light ADVANCE WARNING SIGN.						
Diagnostic Team Recommendations (cont.)							
Diagnostic Team Recommendations (cont.) PEDESTRIAN/BICYCLE Treatments (additional, not in							
Diagnostic Team Recommendations (cont.) PEDESTRIAN/BICYCLE Treatments (additional, not in Crossing Surface (specify)	ncluded above)						
Diagnostic Team Recommendations (cont.) PEDESTRIAN/BICYCLE Treatments (additional, not in Crossing Surface (specify) Detectable warning surfaces	ncluded above) □ Sidewalk (specify)						
Diagnostic Team Recommendations (cont.) PEDESTRIAN/BICYCLE Treatments (additional, not in Crossing Surface (specify) Detectable warning surfaces Stop lines	ncluded above) Sidewalk (specify) LOOK Sign (R15-8)						
Diagnostic Team Recommendations (cont.) PEDESTRIAN/BICYCLE Treatments (additional, not in Crossing Surface (specify) Detectable warning surfaces Stop lines Dynamic envelop markings	ncluded above) Sidewalk (specify) LOOK Sign (R15-8) Illumination						
Diagnostic Team Recommendations (cont.) PEDESTRIAN/BICYCLE Treatments (additional, not in Crossing Surface (specify) Detectable warning surfaces Stop lines Dynamic envelop markings Path delineation	ncluded above) Sidewalk (specify) LOOK Sign (R15-8) Illumination Channelization						
Diagnostic Team Recommendations (cont.) PEDESTRIAN/BICYCLE Treatments (additional, not in Crossing Surface (specify) Detectable warning surfaces Stop lines Dynamic envelop markings Path delineation	ncluded above) Sidewalk (specify) LOOK Sign (R15-8) Illumination Channelization						
□ Install/upgrade traffic signal preemption Other (define):	ncluded above) Sidewalk (specify) LOOK Sign (R15-8) Illumination Channelization						

Field Sketch (optional)
Include utilities as marked by OUPS and LHA; include ROW boundaries as indicated by railroad and LHA.

Clearing Sight Distances

Maximum Authorized Train	Distance (dT) Along				
Speed	Railroad from Crossing (ft)				
Speed	Main oad it offi Crossing (it)				
1 - 10	240				
-1 1-2	2/0				
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					
	I					

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	1590	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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in

Case No(s). 22-0063-RR-FED

Summary: Application In the Matter of a Request for the Installation of Active Warning Devices at the Indiana & Ohio Railway Grade Crossing, DOT#151-326G, on Goshen Road/CR 57 in Clermont County, Ohio. electronically filed by Mrs. Jill A. Henry on behalf of PUCO/Rail Division