Memo

To:	Docketing	Division
10.	DUCKELING	DIVISION

From: Jill Henry, Rail Specialist, Rail Division

Cc: PUCO Legal Department

Date: 11/2/17

Re: PUCO Case No. 17-2286-RR-FED- In the Matter of a Request for the Installation of Active Warning Devices at IORY Railroad Crossings, DOT#151-913H, Pearl Street, in Fayette County & DOT#514-791L, Quarry Road, in Fairfield County, Ohio.

On March 7, 2017, the Ohio Rail Development Commission (ORDC) authorized funding for Indiana & Ohio Railway (IORY) to install lights and gates at the Pearl Street, DOT#151-913H, in Fayette County & Quarry Road, DOT#514-791L, in Fairfield County, Ohio. The crossings were surveyed on October 18, 2016 and were found to warrant the upgrades. The electric utility provider the Pearl Street crossing is Dayton Power and Light and for Quarry Road is American Electric Power- AEP.

The projects will be paid for with federal funds and are actual cost. The plans and estimates for the projects in the amount of \$198,481.97 for Pearl Street and \$161,980.00 for Quarry Road (subject to revision after bid tabulation) 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 Scott Sandoval AVP, Engineering Midwest Region Railroads 4349 Easton Way, Suite 110 Columbus, Ohio 43219

Patrick Engineering Joseph Bolzenius Project Manager 3650 Olentangy River Road, Suite 110 Columbus, Ohio 43214

Ohio Rail Development Commission Cathy Stout 1980 West Broad Street Mail Stop #3140 Columbus, Ohio 43223

City of Washington CH Tim Mitchel City Engineer 220 Park Avenue Washington CH, Ohio 43160

City of Lancaster Mitch Noland City Engineer 121 E. Chestnut Street Lancaster, Ohio 43130

Dayton Power & Light

AEP-Ohio

INTER-OFFICE COMMUNICATION

TO:	Randall Schumacher, Supervisor, Rail Division, PUCO
FROM:	Cathy Stout, Manager, Safety Section, ORDC
BY:	Eric Neff, Safety Manager, Safety Section, ORDC
SUBJECT:	Fayette County, Pearl Street, DOT 151913H, PID# 104595 Fairfield County, Quarry Road, DOT 514791L, PID# 104638
DATE:	October 17, 2017

The Ohio Rail Development Commission (ORDC) established a diagnostic survey at the subject location on November 18, 2016. 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 forms and the plans and estimates 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 projects outlined above. 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 Plan & Estimate

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



October 17, 2017

John Hilborn, P.E. Genesee & Wyoming/IORY Vice President – Engineering 4349 Easton Way, Suite 110 Columbus, Ohio 43219

RE: Fayette County, Pearl Street, DOT 151913H, PID# 104595 Fairfield County, Quarry Road, DOT 514791L, PID# 104638

The plans and estimates dated September 5, 2017 for the referenced projects are acceptable. The Genesee & Wyoming/IORY may proceed with the construction of the proposed grade crossing warning systems in accordance with the abbreviated plans. Construction may include but is not limited to associated railroad track, curb and sidewalk construction circuitry design, installation of service poles, procurement of materials and signal construction. Please note ODOT Railroad Audit Circular No.4 Subcontracted Costs for Railroads and accordingly provide ORDC with any relevant bid documents and bid tabs pertaining to this project. 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 costs are limited to the following:

- \$198,481.97 Fayette County, Pearl Street, DOT 151913H, PID# 104595
- \$161,980.00 Fairfield County, Quarry Road, DOT 514791L, PID# 104638

and will be adjusted based on bid tabulations if applicable. 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 Genesee & Wyoming/IORY accepting the following instructions:

- 1. The Genesee & Wyoming/IORY's project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to Eric Neff, ORDC, email: eric.neff@dot.ohio.gov and to Jill Henry the Public Utilities Commission of Ohio at email: jill.henry@puco.ohio.gov. NS'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. The Genesee & Wyoming/IORY's 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 the Genesee & Wyoming/IORY.



- 3. The Genesee & Wyoming/IORY's project foremen will notify notify Eric Neff at 614-745-6760 (telephone) or <u>eric.neff@dot.ohio.gov</u> (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. The Genesee & Wyoming/IORY will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed ODOT Purchase Order to reference when billing.
- 6. The Genesee & Wyoming/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.

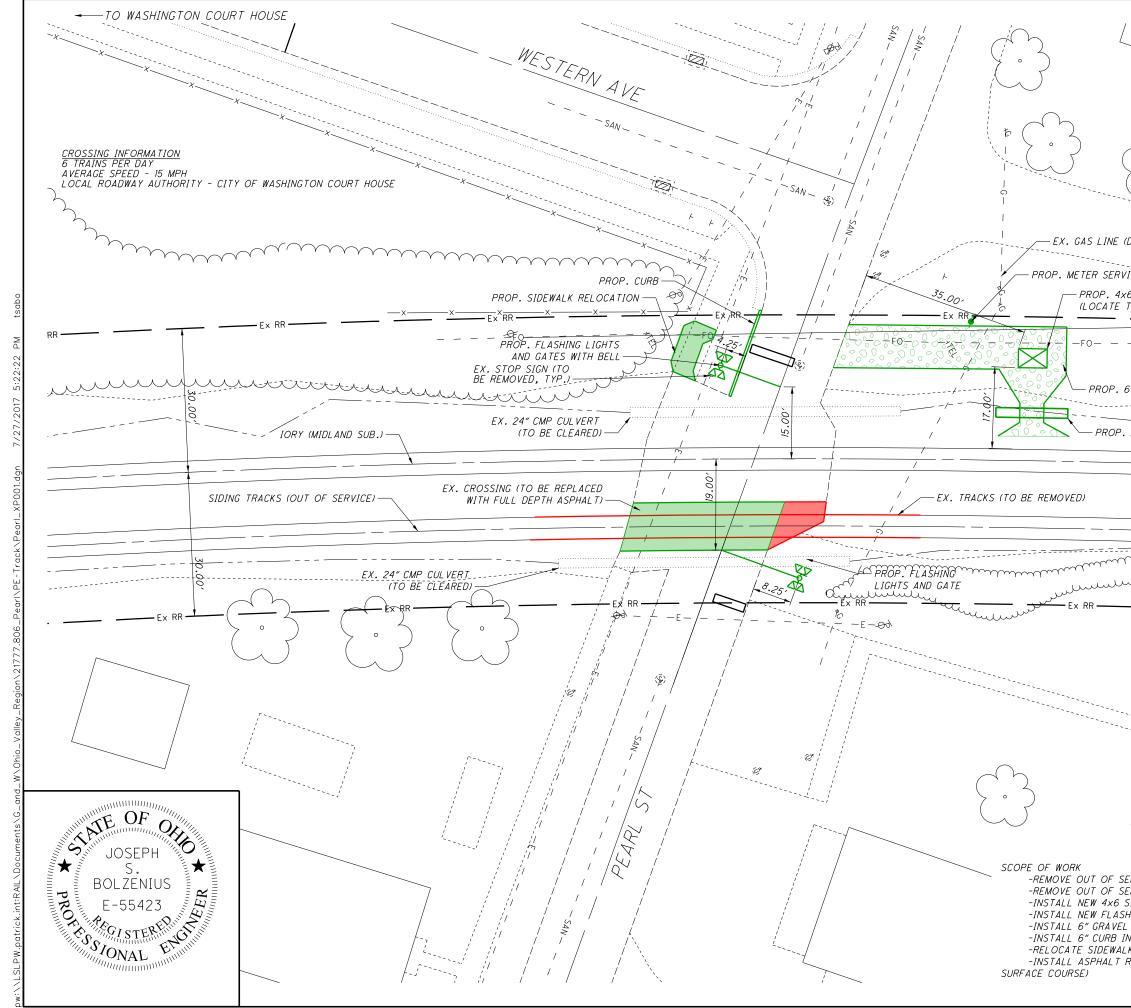
Thank you for your assistance with these matters.

Sincerely,

Eric Neff

Eric Neff Project Manager

C: Randall Schumacher, Rail Division Supervisor, PUCO Jill Henry, Rail Division Specialist, PUCO Susan Arduini, ORDC ORDC (file)



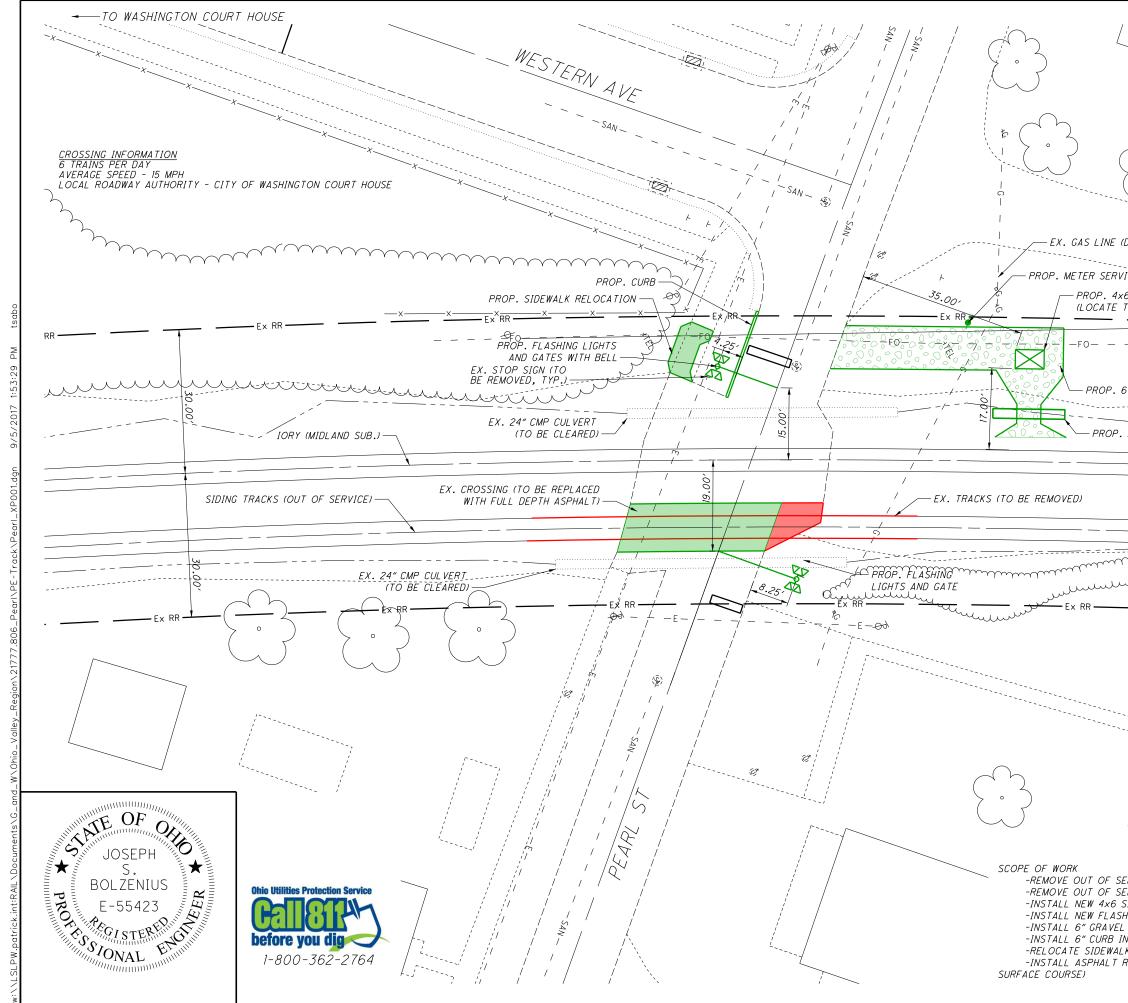
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		HORIZONTAL SCALE IN FEET
DO NOT DISTURB)	- MP 77	PROPOSED SITE LAYOUT
		IORY
ERVICE SIGNAL WIRE OVER ROADWAY ERVICE CROSSING SURFACE (RAIL AND ASPHALT) SIGNAL ENCLOSURE WITH PMD-4R CONTROLLER HING LIGHTS AND GATES, WITH BELL IN SW OUADRANT . ACCESS DRIVE (30 CY), WITH 24" CULVERT FOR TRACK ACCESS (15 LF) N SW OUADRANT (20 LF) K IN SW OUADRANT (60 SF) ROADWAY SURFACE (6" AGGREGATE BASE, 4" ASPHALT BASE, 3"	PEARL	AT
PATRICK ENGINEERING - 7/27/17	$\begin{pmatrix} 1 \\ 1 \end{pmatrix}$	$\Big)$



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TO BLOOMINGBURG		HORIZONTAL SCALE IN FEET
DO NOT DISTURB)	PEARL STREET - MP 77.77 (151913H)	PROPOSED SITE LAYOUT
	. STREET	IORY
ERVICE SIGNAL WIRE OVER ROADWAY ERVICE CROSSING SURFACE (RAIL AND ASPHALT) SIGNAL ENCLOSURE WITH PMD-4R CONTROLLER HING LIGHTS AND GATES, WITH BELL IN SW QUADRANT ACCESS DRIVE (30 CY), WITH 24" CULVERT FOR TRACK ACCESS (15 LF) N SW QUADRANT (20 LF) K IN SW QUADRANT (60 SF) ROADWAY SURFACE (6" AGGREGATE BASE, 4" ASPHALT BASE, 3"	PEARL	AT
PATRICK ENGINEERING - 9/05/17		





Force Account Estimate - Pearl St (PID 104595)

INDIANA & OHIO RAILWAY COMPANY (IORY)

Washington Courthouse, OH (Fayette County)

DOT#: 151913H Railroad # 17IORY20R RR MP: 77.77

SUMMARY

OTHER (DESCRIPTION REQUIRED) (Upgrade SR-41 to PMD-4 to eliminate interference with Pearl St crossing)	\$	18,755.00
(Includes all Coordination and Power Service Charges not included in other costs)		
AC POWER SERVICE	\$	4,000.00
(Estimated Flagging Services cost based on 5 days @ \$1000 per day)		
FLAGGING SERVICES	\$	5,000.00
(0 new utility crossings @ \$4000 per crossing, includes application, engineering review, and right of entry)		
UTILITY CROSSING	\$	-
(Includes all labor and mileage for site inspections during construction)		-,
CONSTRUCTION ENGINEERING INSPECTION	\$	5,500.00
(Includes labor for all Engineering including circuitry plans, Agency Coordination, and Project Management)	·	,
CONSTRUCTION ENGINEERING	\$	28,250.00
(Includes labor for all Engineering including site plans, Agency Coordination, and Project Management)		·
PRELIMINARY ENGINEERING	\$	10,000.00
(Includes all labor, materials, and equipment)	·	
TRACK GRADE AND REHABILITATION	\$	-
(Includes all labor, materials, and equipment)		
CROSSING SURFACE/RESURFACE	\$	-
(Includes all labor, materials, and equipment for MUTCD compliance)		
	\$	14,496.97
(Includes all labor, materials, equipment, shop wiring, and installation)		
CROSSING WARNING SYSTEM	\$	112,480.00

TOTAL ESTIMATE COST

\$ 198,481.97 (USD)

Estimate Prepared By:	J. Bolzenius, PE
Date:	7/27/2017

NOTE:

This Estimate has been prepared based on site conditions, anticipated work duration periods, material prices, labor rates, manpower, resource availability, and other factors known as of the date prepared. The actual cost for Railroad work may differ based upon the agency's requirements, their contractors work procedures, and/or other conditions that become apparent once construction commences or during the progress of the work. If any extended time elapses from the date of this Estimate, the Railroad will reserve the right to update the estimate to current price values, and require agency's approval before any work by Railroad will commence.

Railroad:IORYCrossing Name:Pearl StCity, (County), State :Washington Court House, (Fayette), OHRailroad #:IS1 913HPatrick Engineering #:21777.806

ITEM	UN	IT COST	UNITS	тот	AL
6'x6' Wired House with Equipment	\$	45,500.00	1 EA	\$	45,500.00
Gate/Flasher Assembly	\$	20,250.00	2 EA	\$	40,500.00
			SUBTOTAL	\$	86,000.00
Freight & Handling				\$	2,000.00
			TOTAL MATERIALS	\$	88,000.00
Foreman (1)	\$	162.00	20 hrs	\$	3,240.00
Lead Signalman (2)	\$	121.50	40 hrs	\$	4,860.00
Signalman (2)	\$	94.50	40 hrs	\$	3,780.00
	т	OTAL INST	ALLATION & WIRING	\$	11,880.00
Equipment per day	\$	1,000.00	1 Day	\$	1,000.00
Bungalow Wiring and Test	\$	5,800.00	2 Day	\$	11,600.00
			TOTAL EQUIPMENT	\$	12,600.00
	ΤΟΤΑ	L CROSSING	G WARNING SYSTEM	\$	112,480.00

Prepared By: R. Leinart

Line # Item Number Description Supplemental Description	<u>Quantity</u>	<u>Units</u>	<u>Unit Price</u>	<u>Extension</u>
Group 0010: Roadway				
0001 609E14000 CURB, TYPE 2-A	20.000	FT	\$25.11194	\$502.24
0002 511E51510 CLASS QC2 CONCRETE, SIDEWALK	1.000	CY	\$540.00000	\$540.00
0003 611E10200 24" CONDUIT, TYPE A	15.000	FT	\$204.87469	\$3,073.12
0004 304E20000 AGGREGATE BASE	30.000	CY	\$78.82707	\$2,364.81
0005 202E23000 PAVEMENT REMOVED	380.000	SY	\$16.12610	\$6,127.92
0006 304E20000 AGGREGATE BASE	6.000	CY	\$78.82707	\$472.96
0007 301E46000 ASPHALT CONCRETE BASE, PG64-22	4.000	CY	\$242.25751	\$969.03
0008 441E50000 ASPHALT CONCRETE SURFACE COURSE	3.000 , TYPE 1, (448),		\$148.96476	\$446.89

Total for Group 0010:\$14,496.97





RAILROAD/HIGHWAY GRADE CROSSING SITE SURVEY

RAILROAD NAME:	Indiana & Ohio Railway Company					
LOCATION:	Washington Court House, OH					
PROJECT#:	RR#	17IORY20R	Patrick#	21777.806		
SURVEYED BY:	Troy Sabo		DATE:	7/13/17		
ROADWAY:	Pearl St		DOT#:	151913H		
SUBDIVISION:	Midland		MILEPOST:	77.77		
REGION:	Midwest		SPEED:	25 MPH		
LATITUDE:	39.544591		LONGITUDE:	-83.441941		
NEAREST ADDRESS:	725 Pearl S	Street, Washington Co	ourt House, OH 43160)		
			Crossing withir	n city limits? Yes		
REVISED:						

PROJECT SCOPE (PER AGENCY ORDER/DRTS FINDINGS):

Flashing lights and gates with bell in SW quad for sidewalk. Railroad to remove siding track and surface for single track. Curb and sidewalk relocation required in SW quad.

Special Requireme	ents of C	ity		
Permits	N/A	Type:		Fee: \$
Bonds	N/A	Type:		Fee: \$

RAILROAD CONCERNS/SCOPE ADJUSTMENTS:

North Street (SR-41) currently utilizes PMD-2 @ 560 Hz. RR is concerned that any additional shunts or changes in frequency will negatively affect the unit, and replacement parts are impossible to get. Recommend upgrading the controller at SR-41. Overhead pole line is out of service and may interfere with gates, to be removed.

SURVEY ATTENDEES:

Name Title		Company	Email/Phone
Troy Sabo	Asst. Project Manager	Patrick Engineering	614-498-0344
Adam Richter	Signal Supervisor	IORY	513-335-4812





SECTION 1 - EXISTING WARNING DEVICES

1.1 - EXISTING WARNING DEVICES/CONTROL EQUIPMENT (show on sketch)

Signage	Quantity	Description	Reuse/ Replace
Crossbucks	2		
Stop Signs	2		
Yield Signs	-		
Track Signs	-		
SORS	-		
ENS/DOT	2		
NLT/NRT	-		
Equipment	Quantity	Description (Mast size, lens size, orientation, manufacturer, etc.)	Reuse/ Replace
Flashing Lights	-		
Flashing Lights and Gates			
Cantilevers*	-		
Cant/Gate Combo	-		
Ped Gates	-		
Bells	-		
Bridge Signals	-		
Signal Enclosure	-		
Highway/Rail grade			
crossing warning equipment			
type	-		
DAXing for Adjacent Xings	-		

*Include sketch of bolt hole pattern and spacing with measurements if existing cantilever is to be reused.

Location of shunts and type (hardwire, wide and/or narrow band): Ex. NBS for Delaware St (392 Hz), SR-38 (626 Hz) and North St (560 Hz) approx. 1300' approaches

Location of IJ's, bypass and/or tuned-joint couplers: Multiple IJs throughout approaches, currently bonded around

NOTES (LIST MANUFACTURER/MODEL/QUADRANT IF APPLICABLE) :

1.2 - ARE FOUNDATIONS POURED IN PLACE:	N/A	
1.3 - EXISTING MASTS OF CAST OR ALUMINUM:	N/A	
1.4 - ROOM AT CROSSING TO STORE EQUIPMENT:	Limited	
If no, specify where equipment can be stored:		
1.5 - ARE EXISTING CIRCUITRY PLANS AVAILABLE:	N/A	
1.6 – CROSSING EQUIPMENT AND TYPE, passive, relay, solid state:	Passive	
1.7 – IS THE ROADWAY BEING RELOCATED:	No	
1.8 – IS THERE A FRA INVENTORY REPORT:	Yes	
Grade Crossing Site Survey		2 of 12





SECTION 2 - PROPOSED WARNING DEVICES

2.1 - PROPOSED WARNING DEVICES/CONTROL EQUIPMENT (show on sketch)

Signage	Quantity	Description
Crossbucks	2	
Stop Signs	-	
Yield Signs	-	
Track Signs	-	
SORS	-	
ENS/DOT	2	
NLT/NRT	-	
Equipment	Quantity	Description (Mast size, lens size, orientation, manufacturer, etc.)
Flashing Lights	-	
Flashing Lights and Gates	2	
Cantilevers	-	
Cant/Gate Combo	-	
Ped Gates	-	
Bells	1	
Bridge Signals	-	
Signal Enclosure	1	6x6 house
Highway/Rail grade crossing		
warning equipment type	1	PMD-4R

NOTES:

2.2 - TYPE OF FOUNDATIONS TO BE USED:	Steel pyramid
2.3 - ARE FOUR QUADRANT GATES TO BE INCLUDED:	No
If yes, specify exit gate delay/dwell time:	
2.4 - ARE SIDELIGHTS REQUIRED*:	No
If yes, specify street/distance from track/quadrant:	
*If parallel roadway exists, make certain there is sufficient room to install sig	gnal in that quadrant per MUTCD clearances. Said
2.5 - CROSSING CONTROL EQUIPMENT TERMINATION:	NBS
2.6 - ADDITIONAL EQUIPMENT RECOMMENDED:	No
2.7 - IS ADDITIONAL FILL MATERIAL REQUIRED:	Yes
If yes, specify location and estimate quantity:	NE quad for signal foundation
2.8 – BERM/CRIB WALL/PLATFORM REQUIRED:	No
If yes, specify location, size and type:	





SECTION 3 – TRACK AND RAIL

3.1 – EXISTING TRACK CONDITIONS

Track	Rail Weight	CWR	JT	Bond Type	Track Speed	Track Control	Rusty Rail	Ballast Condition
Mainline	122CB		Х	Head	25		No	Fair
Siding								
Siding								
Industry								
Storage								

SPECIFY INSULATED JOINT DIMENSIONS AND TYPE (show location on sketch):

3.2 - ARE COMP JOINTS PRESENT:	No
If yes, show location and sizes on FIELD SKETCH.	
3.3 - ARE GUAGE RODS PRESENT:	No
Insulated / Non-Insulated:	
If yes, show location and number on FIELD SKETCH.	
3.4 - DO SWITCHES REQUIRE INSULATION:	No
If yes, show switches on FIELD SKETCH.	
3.5 - ANY SHUNT-TYPE SWITCHES:	No
If yes, describe type and show on FIELD SKETCH:	
3.6 - SHUNT ENHANCEMENT REQUIRED:	No
If yes, specify type:	
3.7 – HOW MANY TRACKS THROUGH THE ROADWAY:	2
What is the distance between tracks (center-to-center):	14'
3.8 – INDICATE ANY SCHEDULED TRACK REARRANGEME	ENT OR REMOVAL
OOS siding track to be removed as part of project	





3.9 –BALLAST CONDITIONS:

	Has a ballast study/reading been performed to determine the ballast resistance?	No
	If yes, attach a copy of the results.	
	Has a spectrum frequency analysis been performed?	No
	If yes, attach a copy of the results.	
	- IS THE PROPOSED CROSSING LOCATED IN NAL TERRITORY?	No
	If yes, describe/attach a copy of the plans, CP, Approach signal(s), HWD, DED, and Rock Slide Detection Fences.	
3.11	– ARE THERE ANY EXISTING TRACK CIRCUITS?	No
	If yes, describe type/attach a copy of the plans.	
-	- ARE THERE ANY TIE-INS OR MODIFICATIONS TO SITING CROSSINGS OR SIGNAL SYSTEMS?	No
	If yes, describe/attach a copy of the plans.	
~		
	– ARE THERE ANY OVERLAPS IN APPROACHES H EXISTING CROSSINGS?	Yes
		Yes Delaware, SR-38, and North St
WITI 3.14 REG	H EXISTING CROSSINGS?	
WITI 3.14 REG	H EXISTING CROSSINGS? If yes, describe/attach a copy of the plans. – ARE THERE ANY SPECIAL TRAIN MOVES OR SULAR STOPPING OR SWITCHING IN THE PROPOSED	Delaware, SR-38, and North St
 WITI 3.14 REG APP 3.15 	H EXISTING CROSSINGS? If yes, describe/attach a copy of the plans. – ARE THERE ANY SPECIAL TRAIN MOVES OR SULAR STOPPING OR SWITCHING IN THE PROPOSED ROACHES?	Delaware, SR-38, and North St
 WITI 3.14 REG APP 3.15 	H EXISTING CROSSINGS? If yes, describe/attach a copy of the plans. – ARE THERE ANY SPECIAL TRAIN MOVES OR ULAR STOPPING OR SWITCHING IN THE PROPOSED ROACHES? If yes, describe: – ARE THERE ANY QUIET ZONE REQUIREMENTS IN	Delaware, SR-38, and North St
 WITI 3.14 REG APP 3.15 PRC 3.16 	H EXISTING CROSSINGS? If yes, describe/attach a copy of the plans. – ARE THERE ANY SPECIAL TRAIN MOVES OR SULAR STOPPING OR SWITCHING IN THE PROPOSED ROACHES? If yes, describe: – ARE THERE ANY QUIET ZONE REQUIREMENTS IN POSED AREA OF CROSSING?	Delaware, SR-38, and North St
 WITI 3.14 REG APP 3.15 PRC 3.16 	H EXISTING CROSSINGS? If yes, describe/attach a copy of the plans. – ARE THERE ANY SPECIAL TRAIN MOVES OR ULAR STOPPING OR SWITCHING IN THE PROPOSED ROACHES? If yes, describe: – ARE THERE ANY QUIET ZONE REQUIREMENTS IN POSED AREA OF CROSSING? If yes, describe: – ARE THERE ANY ELECTRONIC (e.g. <i>NO TURN, DO</i>	Delaware, SR-38, and North St No
 WITI 3.14 REG APP 3.15 PRC 3.16 NO7 3.17 	H EXISTING CROSSINGS? If yes, describe/attach a copy of the plans. - ARE THERE ANY SPECIAL TRAIN MOVES OR SULAR STOPPING OR SWITCHING IN THE PROPOSED ROACHES? If yes, describe: - ARE THERE ANY QUIET ZONE REQUIREMENTS IN POSED AREA OF CROSSING? If yes, describe: - ARE THERE ANY ELECTRONIC (e.g. <i>NO TURN, DO</i> <i>STOP ON TRACK</i>) SIGNS REQUIRED?	Delaware, SR-38, and North St No





3.18 – ARE THERE DAXing REQUIREMENTS FOR THIS OR ADJACENT CROSSINGS?	No
If yes, describe:	
3.19 – OPERATIONS	
Number of Day train moves (6a-6p):	_3
Number of Night train moves (6p-6a):	3
Are cars left on tracks near crossing:	No
SECTION 4 – PRE-EN	IPTION
4.1 - PRE-EMPTION CIRCUITRY REQUIRED:	No
If no, skip to section 6. If yes, specify name, distance and direction to intersection:	
If yes, specify type of, distance and direction to traffic signal controller cabinet:	
If yes, specify type of interface, relay, electronic, communication protocol, etc.:	
If yes, specify cable (6 twisted pair), routing and distance to traffic signal controller cabinet:	
If yes, specify interface names applicable to traffic signal control cabinet (AP, SP, Isl Occ, GD, GU, and/or Health):	
4.2 - AUTHORIZING AGENCY:	
4.3 - ROADWAY TRAFFIC ENGINEER:	
4.4 - DATE OF REQUIREMENT:	
SECTION 5 – JOINT RA	AILROAD
5.1 - IS TRACK LEASED FROM ANOTHER RAILROAD:	Yes
If yes, specify railroad and division of maintenance:	CSX owns, IORY maintains
5.2 - DOES ANOTHER RAILROAD OPERATE AT CROSSING	No
5.3 - DOES THE FOREIGN RR CROSS OR GO PARALLEL:	No
5.4 - ANY JOINT FACILITIES WITHIN ONE MILE:	No

If yes, specify railroad and division of maintenance:





SECTION 6 – POLELINE

6.1 ·	- ARE RAILROAD POLELINES PRESENT	Yes	
	If no, skip to section 5. If yes, show on sketch.		
6.2 ·	REMOVE ABANDONED POLELINE:	Yes	
	If yes, specify number of spans to be removed:	1+	
	Will Underground conduit/cable be required as a suitable replacement:	No	
	Will an interim scheme be needed until the suitable replacement is in place?	No	
	SECTION 7 -	- UTILI	ITIES
7.1 ·	- IS COMMERCIAL POWER AVAILABLE:		Yes
	Specify location of nearest pole:		80' west
	If no, from where and how far must it come to se this location	rvice	
7.2 ·	- POWER COMPANY NAME/CONTACT INFORM	ATION:	AEP
7.3 ·	NEW METER SERVICE REQUIRED:		Yes
	Specify 110VAC or 220VAC		
	If no, specify existing meter number:		
7.4	- EXISTING UTILITY INFORMATION		

Company Name	Type of Utility	Phone Number	Conflicts
AT&T	Fiber		
Vectren	Gas		





7.5 - DESCRIBE ANY OVERHEAD UTILITY CONFLICTS: (height of lines and proximity to devices to be installed) Out of service pole line to be removed to ensure proper gate clearance. Need verification of height from AEP to ensure power and secondary users provide enough clearance.

7.6 - DESCRIBE ANY UNDERGROUND UTILITY CONFLICTS: Fiber optic interferes with proposed signal house location.

7.7 - UTILITIES AND PIPELINES PARALLEL TO TRACKS:	No
7.8 - NEARBY COMMERCIAL HIGH TENSION LINES:	No
7.9 - NEARBY COMMERCIAL SUBSTATIONS:	No
7.10 - NEARBY SOLAR SUBSTATIONS:	No
7.11 - NEARBY PROPANE/NATURAL GAS SUBSTATIONS:	No

SECTION 8 – OBSTRUCTIONS

8.1 - OBSTRUCTIONS TO VISIBILITY OF DEVICES: No

If yes, show on sketch.

8.2 - OBSTRUCTIONS TO VISIBILITY ALONG TRACKS:

No

If yes, show on sketch.

8.3 - OBSTRUCTION SOLUTION (PROVIDE CONTACT INFORMATION OF OWNER):

SE	СТ	ION	9 –	RO	ADW	ΆΥ	DAT	A
----	----	-----	-----	----	-----	----	-----	---

(Show on attached crossing sketch)

Asphalt
40' (crossing length)
40' (crossing length)





9.4 - CROSSING ANGLE:	70			
9.5 - VEHICLE SPEED:	25 MPH			
9.6 - IS CURBING PRESENT/REQUIRED:	Required			
9.7 - ARE SIDEWALKS PRESENT:	Yes			
If yes, will they interfere with warning devices:	Require relocation			
9.8 - ARE PEDESTRIAN GATES REQUIRED:	No			
9.9 - WIDTH AND TYPE OF MEDIAN:	N/A			
9.10 - LOCATION AND DISTANCE FROM XING TO DRIVEWAYS AND SIDE STREETS:	60' NW to Western Ave			
9.11 - DOES EXISTING DOT/AAR# MATCH INFORMATION PROVIDED:	Yes			
SECTION 10 – SITE INFORMATION				
10.1 - ENCROACHMENTS WITHIN RR PROPERTY	r: <u>No</u>			
If yes, describe, photograph, and include on F SKETCH:	IELD			
10.2 - WILL TOPOGRAPHY AFFECT INSTALLATION	DN: Yes			
If yes, describe, photograph, and include on F SKETCH:				
	on hill with ditch between tracks.			
10.3 - WILL DRAINAGE BE AFFECTED:	Yes			
If yes, describe, photograph, and include on F SKETCH:	IELD			
SKETCH.				
10.4 - CULVERTS BE EXTENDED/RELOCATED/R	EQUIRED: No			
10.5 - CONDUIT LENGTH REQUIRED:	150'			
10.6 - UNUSUAL/GEOGRAPHY FEATURES:	No			
10.7 - MINES OR SPURS IN AREA:	No			
10.8 - RIVER LOCKS:	No			





10.9 – ARE USCGS SURVEY MARKERS PRESENT:	No
If yes, describe, photograph, and include on FIELD SKETCH (DO NOT REMOVE MARKERS):	
10.10 – ANY ELECTRIFIED ROADS OR TRANSISTS IN AREA:	No
10.11 – HAS RAILROAD EXPERIENCED ANY PROBLEMS AT THIS CROSSING RELATED TO TRAIN OPERATIONS:	No
10.12 – SCRAP DISPOSAL: <u>No</u> TYPE:	N/A FEE: N/A
10.13 - ADDITIONAL COMMENTS/DETAILS/CONFLICTS: Out of service crossing removal shall ensure proper sidewalk gr and need to be cleaned to ensure proper drainage.	rade. Both 24" CMP culverts are plugged
10.14 - NE QUADRANT: OMUTCD location of signal is on top of existing culvert. Relocat	e culvert or signal?
10.15 - NW QUADRANT: OMUTCD location of house is on Fiber Optic line. Consider alte	rnative location?
10.16 - SE QUADRANT: No additional comments.	
10.17 - SW QUADRANT: Sidewalk to be relocated to avoid counterweight.	



SECTION 11 – PHOTO LOG

Image #	Description	QUAD	Direction
001	Crossing Surface and Northbound Approach	SW	SE
002	Crossing Surface and Northbound Approach	SW	SE
003	Warning Devices and Northbound Approach	SW	SE
004	Private Fence Along Right of Way	SW	W
005	Private Fence Along Right of Way	SW	W
006	Railroad Ditch Flowing From Surface	SW	SW
007	Railroad Ditch Flowing To Surface	SW	NE
008	24" CMP Culvert, Plugged	SW	NE
009	24" CMP Culvert, Plugged	NW	S
010	Gas Marker, Perpendicular to Tracks	NW	N
011	Gas Marker and Vent, Perpendicular to Tracks	NW	NW
012	AT&T Fiber Optic Marker, Parallel to Tracks	N	NE
013	Crossing Surface and Southbound Approach	SE	NW
014	Water Valve in Driveway	NE	N
015	Gas Marker and Vegetation	NE	N
016	24" CMP Culvert, Plugged	NE	SW
017	Existing Roadway Grade	SW	E
018	24" CMP Culvert, Plugged	SE	SW
019	24" CMP Culvert, Plugged	SE	SW





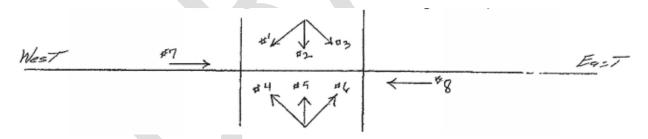
SECTION 12 – ADDITIONAL INSTRUCTIONS

12.1 A minimum of two field sketches is required. One should show a 'closeup' view of the crossing and the second should show the approaches to the crossing. **If the closeup view sketch is too congested, then include separate drawings for existing and proposed**. Pertinent structures beyond the approach limits of the crossing should be noted/shown if there is a possibility of these affecting project crossing installation/operation.

These sketches are to include, but not limited to:

- a. Cut sections (relayed and non-relayed)
- b. Switches (elec. Lock, bolt lock, H.T. derails, etc)
- c. Signal locations (automatic and controlled)
- d. Other road crossings (protected and unprotected) take pictures.
- e. Slide fences, DED/TSÄ's, HBD,
- f. Non-interlocked RR crossings
- g. Mileposts
- h. Angle of crossing
- i. Speed of trains
- j. Snow blowers within approach of crossings
- k. Bridges (type, height, length) take pictures
- I. AC meter service location
- m. Roadway dimensions (width, shoulders, median, sidewalk, etc.)
- n. Locate utilities and pipelines (underground and overhead) take photos.

12.2 Take a minimum of eight (8) pictures, as shown below, and number each picture according to the numbered arrows on your field sketch. If additional pictures are taken, show additional numbered arrows on the field sketch to which pictures correspond.



- **12.3** If AAR/DOT number plate is posted, include in picture.
- **12.4** Take pictures inside any cases and/or signal houses.
- 12.5 If copies plans are not available, then take pictures of circuit plans



Pearl 001 - Crossing Surface and Northbound Approach - SW QUAD looking Southeast



Pearl 002 - Crossing Surface and Northbound Approach - SW QUAD looking Southeast



Pearl 003 - Warning Devices and Northbound Approach - SW QUAD looking Southeast

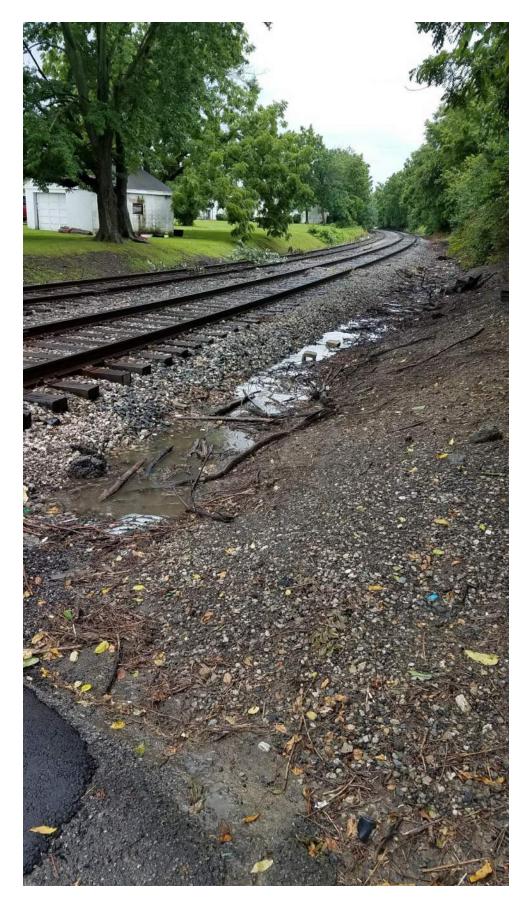


Pearl 004 - Private Fence Along Right of Way - SW QUAD looking West

DOT# 151913H



Pearl 005 - Private Fence Along Right of Way - SW QUAD looking West



Pearl 006 - Railroad Ditch Flowing From Surface - SW QUAD looking Southwest



Pearl 007 - Railroad Ditch Flowing To Surface - SW QUAD looking Northeast



Pearl 008 - 24" CMP Culvert, Plugged - SW QUAD looking Northeast



Pearl 009 - 24" CMP Culvert, Plugged - NW QUAD looking South



Pearl 010 - Gas Marker, Perpendicular to Tracks - NW QUAD looking North



Pearl 011 - Gas Marker and Vent, Perpendicular to Tracks - NW QUAD looking Northwest



Pearl 012 - AT&T Fiber Optic Marker, Parallel to Tracks - N QUAD looking Northeast



Pearl 013 - Crossing Surface and Southbound Approach - SE QUAD looking Northwest



Pearl 014 - Water Valve in Driveway - NE QUAD looking North



Pearl 015 - Gas Marker and Vegetation - NE QUAD looking North



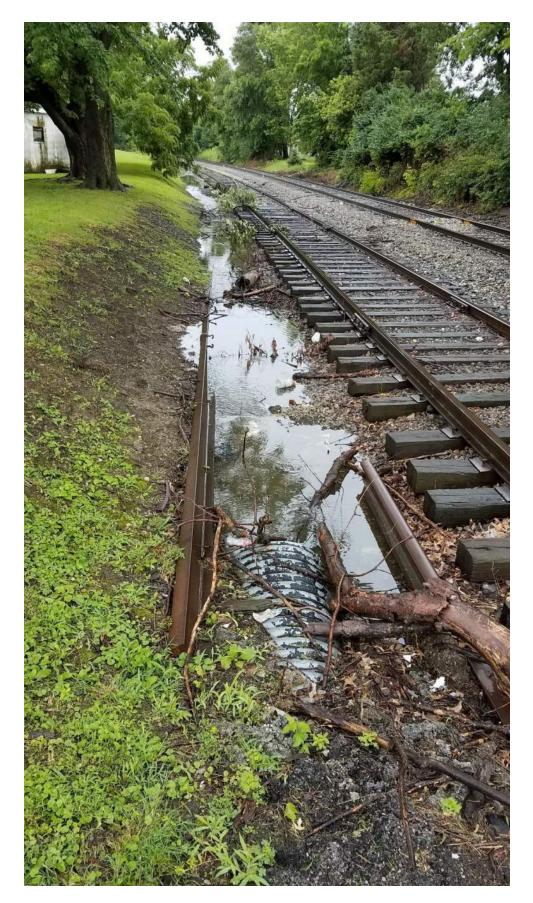
Pearl 016 - 24" CMP Culvert, Plugged - NE QUAD looking Southwest



Pearl 017 - Existing Roadway Grade - SW QUAD looking East



Pearl 018 - 24" CMP Culvert, Plugged - SE QUAD looking Southwest



Pearl 019 - 24" CMP Culvert, Plugged - SE QUAD looking Southwest



March 7, 2017

John Hilborn, P.E. Genesee & Wyoming/IORY Vice President – Engineering 4349 Easton Way, Suite 110 Columbus, Ohio 43219

RE: Fayette County, Pearl Street, DOT 151913H, PID# 104595 Fairfield County, Quarry Road, DOT 514791L, PID# 104638

Dear Mr. Hilborn:

Diagnostic reviews were held at the above grade crossings on November 18, 2016. The crossings have been recommended for the installation of lights and gates.

The Genesee & Wyoming/IORY is authorized to proceed with the site plans and cost estimates (PE) 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.

The ORDC is not requesting that the PUCO issue an Order at this time. When the ORDC receives the PE it will be evaluated and a construction-only Order will be requested from PUCO. Please submit the PE to ORDC within 90 days of receipt of this letter.

The diagnostic review forms are attached. Please note any recommendations (page 5), if any, made by the team with regard to 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

I am the Project Manager for this project. I can be reached at (614) 752.0399, or Eric.Neff@dot.ohio.gov, if you have any questions.

Sincerely,

Eric T. Neff

Eric Neff Project Manager

C: Jill Henry, PUCO, Grade Crossing Planner ORDC (file)





Lynn Slaby M. Beth Trombold Thomas W. Johnson Vacant

January 24, 2017

Indiana & Ohio Railway Company Mr. John Hilborn Vice President-Engineering, Midwest Region Railroads* 4349 Easton Way, Suite 110 Columbus, OH 43219

Public Utilities Commission

Asim Z. Haque, Chairman

Re: 1) Fayette County, Pearl Street, DOT#151-913H, hereinafter referred to as the "Project"

Dear Mr. Hilborn:

Ohio

The Public Utilities Commission of Ohio (PUCO) has identified and the Ohio Rail Development Commission (ORDC) surveyed, on October 18, 2016, the above mentioned grade crossing for warning device upgrades. The location has been approved for flashing lights and roadway gates. Surface improvements will be included in this project.

The Project shall comply with Agreement No. 5773, dated February 16, 1989, Reconstruction Agreement No. 4425, dated August 26, 1985, and Supplemental Agreement No. 4425-A dated May 8, 2019, entered into by the State of Ohio and Indiana & Ohio Railway (IORY). 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 or 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.

(614) 466-3016 www.PUCO.ohio.gov Page 2 of 2 Fayette County IORY Pearl Street Letter Agreement

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,

Muley Chorch

Milan Orbovich Director of Transportation Public Utilities Commission of Ohio

1/2-1/17 Date

MAK

Matthew Dietrich Executive Director Ohio Rail Development Commission

Date 1-27-17

Indiana & Ohio Railway

By _____ Title _____

Date _____

Page 2 of 2 Fayette County IORY Pearl Street Letter Agreement

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,

Mulay abour he

Milan Orbovich Director of Transportation Public Utilities Commission of Ohio

1/2-Date

Indiana By

1eas

Matthew Dietrich Executive Director Ohio Rail Development Commission

Date

Title

Date

Gany R. Long Schior Vice Parident 2-27-17

OHIO RAIL DEVELOPMENT COMMISSION

Ohio Rail Development Commission Mail Stop 3140, 1980 W. Broad Street, Columbus, OH 43223

10/10/001/

Diagnostic Review Team Survey

(e.g. formula, accident, constituent, etc.)	ula	Date: 10/18/2016
Location Data		
Street or Road Name: Pearl Street		
Route/Road Number (i.e. Twp., Co., SR or US)		US DOT No.: 151913H
County: FAY Township:	City: (In or Nea	City of Washington Court House
Railroad Name: Indiana & Ohio Railway	Railroad Division: OH	Branch/Line Name:
Nearest RR Timetable Station: Washington C.H.		RR Milepost: 77.77
On-Site Review Team		
(Include: Name-Organization-Phone Number 1. <u>AR Reinheit (</u> 2. <u>Timothy I. Mitchel</u> (3. <u>JEFF (ASTO P</u> 4. <u>Stive Love 7</u>	-Email) <u> <u> jRUC</u> 614-644 <u> Cl+y WCH</u> 740-630 <u> Cl+y WCH</u> 740-630 <u> Cl+y WCH</u> 740-630</u>	-0291 -2380 1-5-412
4. Stave Love 1	OR1 5/3 50	50613
5	,	
6		
7		
8		
9		
Existing Traffic Control Devices		
Type of Warning Devices Advance Warning Signs (condition?)	Installed?	Quantity/Comments
'Stop' Signs	<u>No</u> res No	
'Stop Ahead' Signs	$\square Yes \qquad \boxed{No}$	
Pavement Markings (condition?)	Y Yes No	2
Crossbucks	X Yes No	<u> </u>
Number of Tracks Signs		<i>&</i>
Inventory Tags		
Interconnected Highway Traffic Signal	<u>X Yes</u> No Yes*No	Emologicy
	Yes No	v 1
Mast-Mounted Flashing Lights Cantilever Flashing Lights		
	🗌 Yes 🛛 🕅 No	
	☐ Yes	Number: Length:
Side Lights	☐ Yes	
Side Lights Automatic Gates	Yes Xo Yes X	Number: Length:
Side Lights Automatic Gates Bells	Yes X No Yes X No	
Side Lights Automatic Gates Bells Sidewalk Gate Arms	Yes Xo Yes Xo Yes Xo Yes No	Number: Length:
Side Lights Automatic Gates Bells Sidewalk Gate Arms 'No Turn' Signs	Yes X No Yes X No Yes X No Yes No	Number: Length:
Side Lights Automatic Gates Bells Sidewalk Gate Arms 'No Turn' Signs Illumination	Yes No	Number: Length:
Side Lights Automatic Gates Bells Sidewalk Gate Arms 'No Turn' Signs	Yes X No Yes X No Yes X No Yes No	Number: Length:

	Init	tial Information (from database)	Revised
Number & dates of crashes n previous 5 years	1 (7/31/15) & (1/18/91)		
Hazard Ranking	215	Date Run: 9/30/16	
Railroad Data			
Railroad Characteris	stics	Initial Information (from database)	Revised
Total trains per day		4	Le
< I per day			
Day thru trains		2	-3
Night thru trains		2	3
Daytime switching moveme			
Nighttime switching mover	nents		•
Total number of tracks		3	
Number of main tracks		2	
Number of other tracks		I T-4244(3)	· F
Maximum train speed		40	15
Typical train speed Amtrak		40	15
		nce adequate in all quadrants? (See Table I)	│Yes │No
Can one or more tracks be eli Are there other track(s) cross	iminated thro sing this same	ossing at the same time? another train at crossing? Yes (Explain be ough the crossing? roadway within 100 ft of this crossing?	•
Can one or more tracks be eli Are there other track(s) cross If yes, Crossing DOT #(if o If yes, distance	iminated thro sing this same different)	another train at crossing? 🗌 Yes (Explain be ough the crossing? 🙀 Yes 🗌 No	Yes 🕅 No
Can one or more tracks be eli Are there other track(s) cross If yes, Crossing DOT #(if o If yes, distance Roadway Data	iminated thro sing this same different)	another train at crossing? Yes (Explain be pugh the crossing? Yes No roadway within 100 ft of this crossing? assurement between track centerlines at close	Yes X No
Can one or more tracks be eli Are there other track(s) cross If yes, Crossing DOT #(if o If yes, distance Roadway Data Local Highway Authority:	iminated thro sing this same different) (take me	another train at crossing? Yes (Explain be pugh the crossing? roadway within 100 ft of this crossing? assurement between track centerlines at close City of Washington Court House	Yes X No est point along roadway)
Can one or more tracks be eli Are there other track(s) cross If yes, Crossing DOT #(if o If yes, distance Roadway Data Local Highway Authority: Roadway Characteri	iminated thro sing this same different) (take me	another train at crossing? Yes (Explain bough the crossing? roadway within 100 ft of this crossing? City of Washington Court House Initial Information (from database)	Yes X No est point along roadway) Revised
Can one or more tracks be eli Are there other track(s) cross If yes, Crossing DOT #(if o If yes, distance Roadway Data Local Highway Authority: Roadway Characteri	iminated thro sing this same different) (take me	another train at crossing? Yes (Explain be pugh the crossing? roadway within 100 ft of this crossing? assurement between track centerlines at close City of Washington Court House	Yes X No est point along roadway)
Can one or more tracks be eli Are there other track(s) cross If yes, Crossing DOT #(if o If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic	iminated thro sing this same different) (take me	another train at crossing? Yes (Explain bough the crossing? roadway within 100 ft of this crossing? City of Washington Court House Initial Information (from database)	Yes X No est point along roadway) Revised
Can one or more tracks be eli Are there other track(s) cross If yes, Crossing DOT #(if of If yes, distance	iminated thro sing this same different) (take me	another train at crossing? Yes (Explain be ough the crossing? e roadway within 100 ft of this crossing? assurement between track centerlines at close City of Washington Court House Initial Information (from database) 361 (2013) X Yes No	Yes X No est point along roadway) Revised 314 2016
Can one or more tracks be eli Are there other track(s) cross If yes, Crossing DOT #(if o If yes, distance	iminated thro sing this same different) (take me	another train at crossing? Yes (Explain be ough the crossing? e roadway within 100 ft of this crossing? assurement between track centerlines at close City of Washington Court House Initial Information (from database) 361 (2013) X Yes No	Yes X No est point along roadway) Revised 314 2016
Can one or more tracks be eli Are there other track(s) cross If yes, Crossing DOT #(if of If yes, distance	iminated thro sing this same different) (take me	another train at crossing? Yes (Explain be ough the crossing? e roadway within 100 ft of this crossing? assurement between track centerlines at close City of Washington Court House Initial Information (from database) 361 (2013) X Yes No	Yes X No est point along roadway) Revised 314 2016
Can one or more tracks be eli Are there other track(s) cross If yes, Crossing DOT #(if o If yes, distance	iminated thro sing this same different) (take me	another train at crossing? Yes (Explain be pugh the crossing? roadway within 100 ft of this crossing? assurement between track centerlines at close City of Washington Court House Initial Information (from database) 361 (2013) X Yes Concrete Other 2	Yes X No est point along roadway) Revised 314 2016
Can one or more tracks be eli Are there other track(s) cross If yes, Crossing DOT #(if o If yes, distance	iminated thro sing this same different) (take me	another train at crossing? Yes (Explain be pugh the crossing? readway within 100 ft of this crossing? assurement between track centerlines at close City of Washington Court House Initial Information (from database) 361 (2013) X Yes Concrete Other 2 Urban	Yes X No est point along roadway) Revised 314 2016
Can one or more tracks be eli Are there other track(s) cross If yes, Crossing DOT #(if o If yes, distance	iminated thro sing this same different) (take me istics	another train at crossing? Yes (Explain be pugh the crossing? roadway within 100 ft of this crossing? assurement between track centerlines at close City of Washington Court House Initial Information (from database) 361 (2013) X Yes Concrete Other 2 Urban 355	Yes X No est point along roadway) Revised 314 2016
Can one or more tracks be eli Are there other track(s) cross If yes, Crossing DOT #(if o If yes, distance	iminated thro sing this same different) (take me istics p [] Gravel	another train at crossing? Yes (Explain be pugh the crossing? roadway within 100 ft of this crossing? asurement between track centerlines at close City of Washington Court House Initial Information (from database) 361 (2013) X Yes No Concrete Other 2 Urban 25 es Amount	Yes X No est point along roadway) Revised 314 2016
Can one or more tracks be eli Are there other track(s) cross If yes, Crossing DOT #(if o If yes, distance	iminated thro sing this same different)	another train at crossing? Yes (Explain be pugh the crossing? roadway within 100 ft of this crossing? assurement between track centerlines at close City of Washington Court House Initial Information (from database) 361 (2013) X Yes Concrete Other 2 Urban 355	Yes X No est point along roadway) Revised 314 2016
Can one or more tracks be eli Are there other track(s) cross If yes, Crossing DOT #(if o If yes, distance	iminated thro sing this same different) (take me istics p Gravel p Gravel co X Y No X	another train at crossing? Yes (Explain bough the crossing? Yes No e roadway within 100 ft of this crossing? assurement between track centerlines at close City of Washington Court House Initial Information (from database) 361 (2013) X Yes No Concrete Other Urban 25 esAmount X Yes <u>02</u> Amount 12 T(hes	Yes X No est point along roadway) Revised 314 2016
Can one or more tracks be eli Are there other track(s) cross If yes, Crossing DOT #(if o If yes, distance	iminated thro sing this same different)	another train at crossing? Yes (Explain be ough the crossing? Yes No e roadway within 100 ft of this crossing? assurement between track centerlines at close City of Washington Court House Initial Information (from database) 361 (2013) X Yes No Concrete Other 2 Urban 355 esAmount X Yes <u>02</u> Amount 12 T(has	Yes X No est point along roadway) Revised 314 2016
Can one or more tracks be eli Are there other track(s) cross If yes, Crossing DOT #(if o If yes, distance	iminated thro sing this same different) (take me istics p Gravel p Gravel p Gravel c c Y No (es No g roadway in	another train at crossing? Yes (Explain bough the crossing? Yes No e roadway within 100 ft of this crossing? assurement between track centerlines at close City of Washington Court House Initial Information (from database) 361 (2013) X Yes No Concrete Other 2 Urban 25 esAmount X Yes <u>.02</u> Amount <u>12 T(frees</u> Yes crossing vicinity? No Yes	Yes X No est point along roadway) Revised 314 2016

•

Quadrant SW Curb and Gutter:	Quadrant NE Curb and 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	X None		
Pedestrians: 🔲 No 🔀 Yes			
ls sidewalk present? 🗌 No 🛛 🕅 Yes			
Is there a nearby intersection that could cause queuing over the o	crossing? 🔀 No 🗌 Yes		
If yes, Distance			
Is this intersection signalized? 🕺 No 🛛 🗌 Yes	,		
Are the signals currently interconnected with the existing cross	sing warning devices? 🔀 No 🛛 🗌 Yes		
Is there a 'Do not Stop on Track' sign? 🕅 No 🗌 Yes			
Is a roadway improvement project (e.g. widening, turn lanes, near location in the foreseeable future? No Yes If yes,	rby new or upgraded traffic signal, sidewalk) planned at or near this		
Improvement type Lead Agency _	Timeline/completion -		
Is it the consensus of the Diagnostic Review Team that this is a p	otential closure project: 🔀 No 🛛 Yes		
Explain reasons:			
Type of Development			
Open Space Institutional Location of nearb	y schools:		
Industrial Commercial			
Residential			
Utility Information			
Is commercial power available? 🗌 No 🛛 💆 Yes			
Utility Provider (Company Name) Doztor Pour + Lift	Phone Number		
Nearest Available Power Source What other utilities are present? X Gas	Telephone Fiber Optic Cable		
What other utilities are present? X Gas X Cable (add locations to sketch) Petroleum Water Other	Telephone X Fiber Optic Cable		
Is(are) there potential utility conflict(s)			
Comments:			

•

Potential Red Flags / Project Challenges Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known): Crossing Consolidation or Closure: Real Estate or ROW: Culverts / Drainage / Ballast Conditions: Two feet drain pipes running pavallel of the tracks on both side of tracks. Roadway and/or Sidewalks: In the south guideant is a sidual K that needs to be relocated. Circuitry (e.g. reaches out to other crossings, specific needs, etc.): Environmental: Other:

Diagnostic Team Recommendations	
	Quadrants Needed
Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	
AFLS / Gates	2
AFLS / Gates / Cants	
🔀. Belis / number	A ONE BELL
Upgrade circuitry / type	
Sidelights	
Guardrail Needed	Southwest of move sidewalk south
🔀 Install/Replace curb	Install JW Qued of move sidewalk south
Bungalow placement & offset from rail & highway	
C Other (define)	
Comments: Remove siding track on easef side	e & new surface,
Comments: Hemove siding track on easef side · RR will confirm this track hav	be removed.
Install/upgrade traffic signal preemption	
Other (define)	
Acknowledgement of Recommendations (each entity represented	at the diagnostic must have at least one signature
acknowledgement):	
GNK T.I.M.	THH?
Field Dimensions	
Sidewalk , Show North Direction	
Parkway '	
Roadway ,	
↓	
Roadway	
, Parkway	
Sidewalk	

•

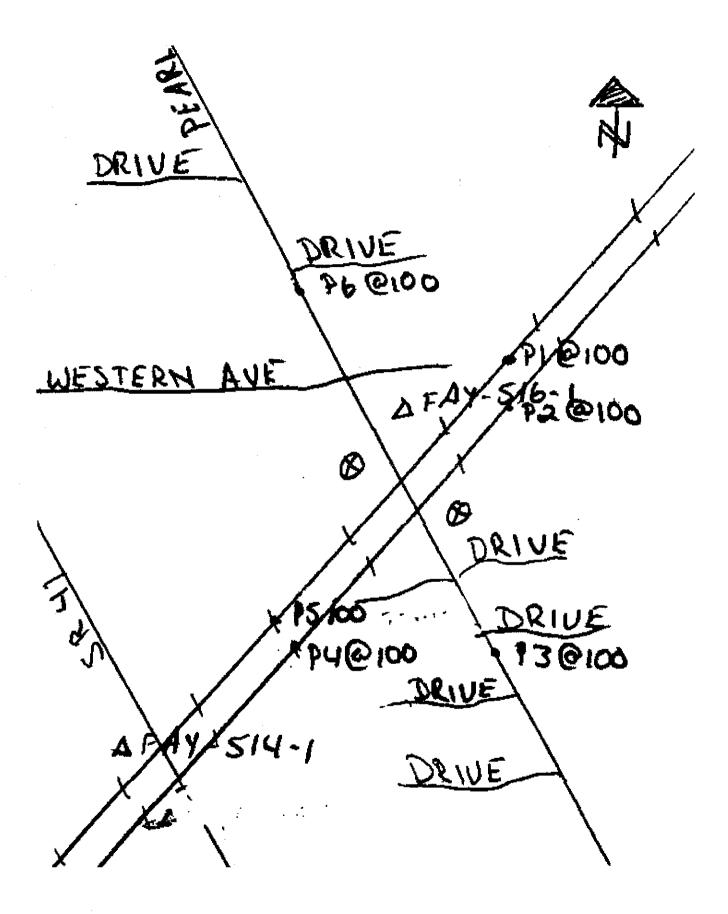


TABLE I

Clearing Sight Distances

Maximum Authorized Train	Distance (dT) Along Railroad from Crossing (ft)
- Nor	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 5foot 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.

Table 2

Stopping Sight Distances

	J
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.

10-10-16 ANN

INTER-OFFICE COMMUNICATION

TO:	Randall Schumacher, Supervisor, Rail Division, PUCO
FROM:	Cathy Stout, Manager, Safety Section, ORDC
BY:	Eric Neff, Safety Manager, Safety Section, ORDC
SUBJECT:	Fayette County, Pearl Street, DOT 151913H, PID# 104595 Fairfield County, Quarry Road, DOT 514791L, PID# 104638
DATE:	October 17, 2017

The Ohio Rail Development Commission (ORDC) established a diagnostic survey at the subject location on November 18, 2016. 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 forms and the plans and estimates 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 projects outlined above. 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 Plan & Estimate

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



October 17, 2017

John Hilborn, P.E. Genesee & Wyoming/IORY Vice President – Engineering 4349 Easton Way, Suite 110 Columbus, Ohio 43219

RE: Fayette County, Pearl Street, DOT 151913H, PID# 104595 Fairfield County, Quarry Road, DOT 514791L, PID# 104638

The plans and estimates dated September 5, 2017 for the referenced projects are acceptable. The Genesee & Wyoming/IORY may proceed with the construction of the proposed grade crossing warning systems in accordance with the abbreviated plans. Construction may include but is not limited to associated railroad track, curb and sidewalk construction circuitry design, installation of service poles, procurement of materials and signal construction. Please note ODOT Railroad Audit Circular No.4 Subcontracted Costs for Railroads and accordingly provide ORDC with any relevant bid documents and bid tabs pertaining to this project. 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 costs are limited to the following:

- \$198,481.97 Fayette County, Pearl Street, DOT 151913H, PID# 104595
- \$161,980.00 Fairfield County, Quarry Road, DOT 514791L, PID# 104638

and will be adjusted based on bid tabulations if applicable. 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 Genesee & Wyoming/IORY accepting the following instructions:

- 1. The Genesee & Wyoming/IORY's project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to Eric Neff, ORDC, email: eric.neff@dot.ohio.gov and to Jill Henry the Public Utilities Commission of Ohio at email: jill.henry@puco.ohio.gov. NS'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. The Genesee & Wyoming/IORY's 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 the Genesee & Wyoming/IORY.



- 3. The Genesee & Wyoming/IORY's project foremen will notify notify Eric Neff at 614-745-6760 (telephone) or <u>eric.neff@dot.ohio.gov</u> (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. The Genesee & Wyoming/IORY will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed ODOT Purchase Order to reference when billing.
- 6. The Genesee & Wyoming/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.

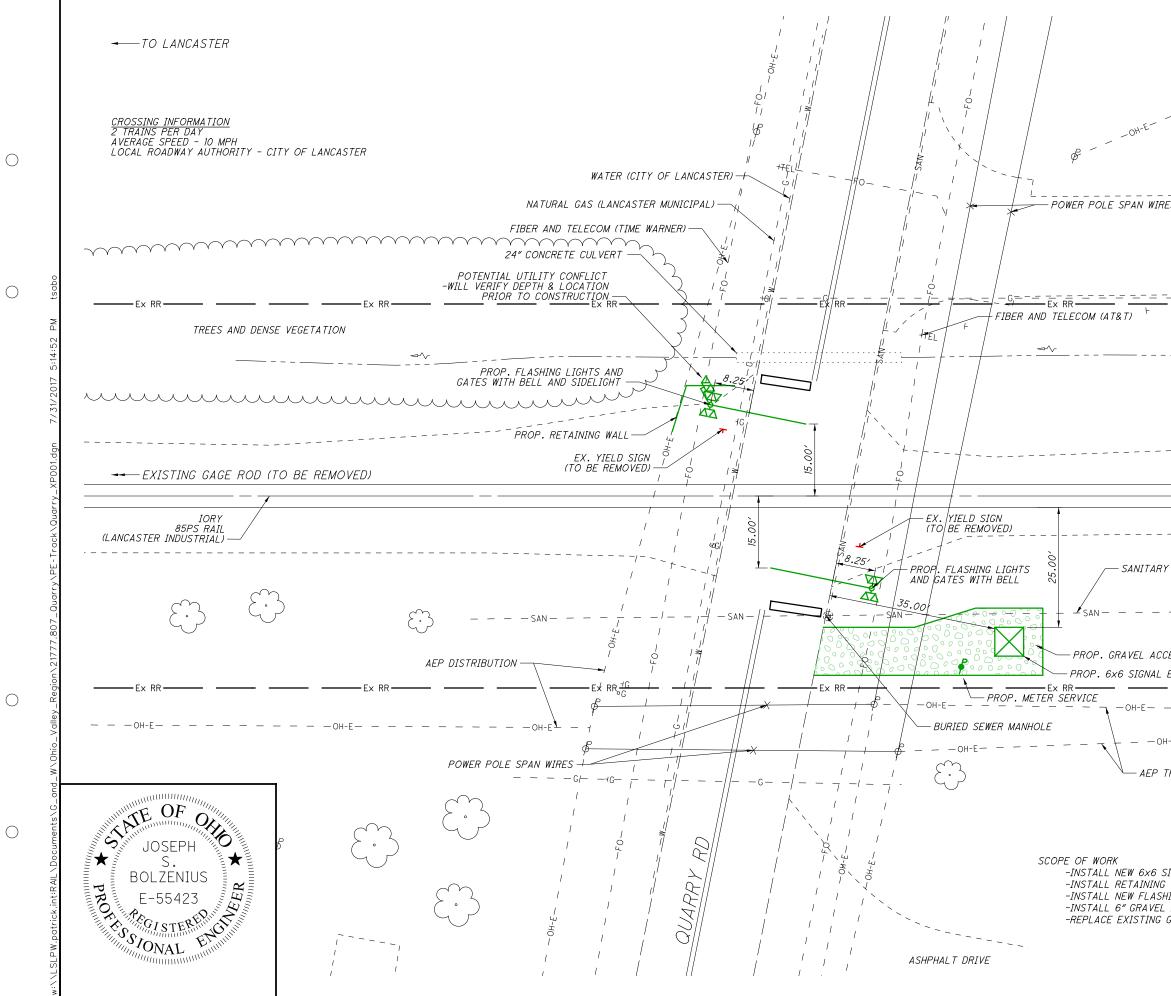
Thank you for your assistance with these matters.

Sincerely,

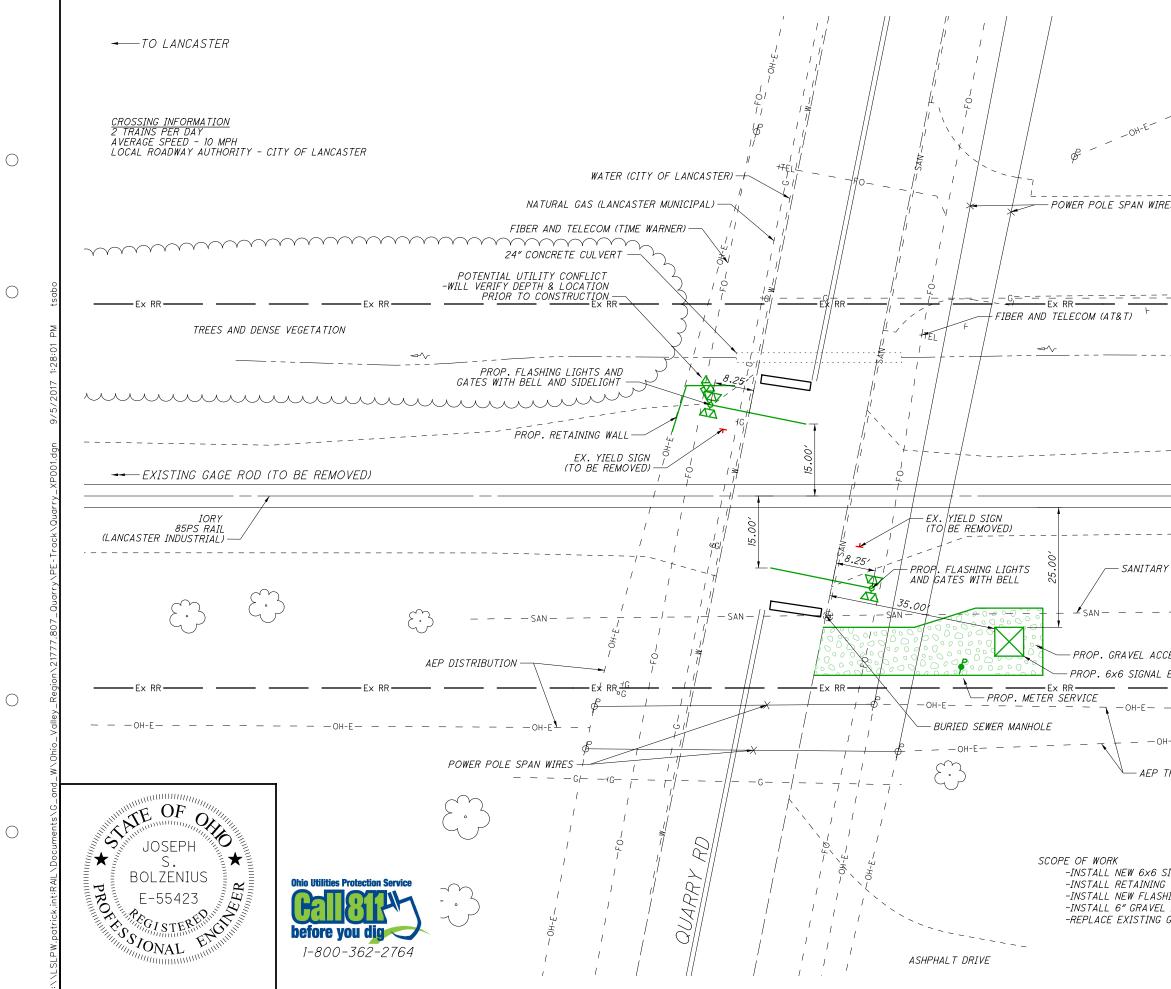
Eric Neff

Eric Neff Project Manager

C: Randall Schumacher, Rail Division Supervisor, PUCO Jill Henry, Rail Division Specialist, PUCO Susan Arduini, ORDC ORDC (file)



END OF LINE	0 5 HORIZONTAL SCALE IN FEET
INDUSTRIAL DRIVE	- MP 2.69 (514791L)) SITE LAYOUT
Y SEWER (CITY OF LANCASTER)	QUARRY ROAD Proposed
H-E OH-E	QUARRY ROAD AT IORY
PATRICK ENGINEERING – 7/31/17	



END OF LINE	6 5 HORIZONTAL SCALE IN FEET
INDUSTRIAL DRIVE	91L)
	MP 2.69 (514791L SITE LAYOUT
Y SEWER (CITY OF LANCASTER)	QUARRY ROAD - Proposed (
CESS DRIVE ENCLOSURE 	ō
H-E— — — — — — — — — — — — — — — — — — —	QUARRY ROAD AT IORY
PATRICK ENGINEERING – 9/05/17	





Force Account Estimate - Quarry Rd (PID 104638)

INDIANA & OHIO RAILWAY COMPANY (IORY)

Lancaster, OH (Fairfield County)

DOT#: 514791L Railroad # 17IORY21R RR MP: 2.69

SUMMARY

CROSSING WARNING SYSTEM	\$	123,480.00	
(Includes all labor, materials, equipment, shop wiring, and installation)			
SITE CIVIL ITEMS	\$	-	
(Included in Crossing Warning System)			
CROSSING SURFACE/RESURFACE	\$	-	
(Includes all labor, materials, and equipment)			
TRACK GRADE AND REHABILITATION	\$	-	
(Includes all labor, materials, and equipment)			
PRELIMINARY ENGINEERING	\$	8,000.00	
(Includes CONTRACT Labor for all Engineering, Agency Coordination, and Project Management)			
CONSTRUCTION ENGINEERING	\$	16,000.00	
(Includes CONTRACT Labor for all Engineering, Agency Coordination, and Project Management)			
CONSTRUCTION ENGINEERING INSPECTION	\$	5,500.00	
(Estimated Construction Engineering Inspection cost)			
UTILITY CROSSING	\$	-	
(0 new utility crossings @ \$4000 per crossing, includes application, engineering review, and right of entry)			
FLAGGING SERVICES	\$	5,000.00	
(Estimated Flagging Services cost based on 5 days @ \$1000 per day)			
AC POWER SERVICE	\$	4,000.00	
(Includes all Coordination and Power Service Charges not included in other costs)	·	,	
OTHER (Description Required)	\$	-	
TOTAL ESTIMATE COST	Ś	161,980.00	(USD)
	·	•	

Estimate Prepared By:	J. Bolzenius, PE
Date:	7/31/2017

NOTE:

This Estimate has been prepared based on site conditions, anticipated work duration periods, material prices, labor rates, manpower, resource availability, and other factors known as of the date prepared. The actual cost for Railroad work may differ based upon the agency's requirements, their contractors work procedures, and/or other conditions that become apparent once construction commences or during the progress of the work. If any extended time elapses from the date of this Estimate, the Railroad will reserve the right to update the estimate to current price values, and require agency's approval before any work by Railroad will commence.

Railroad:IORYCrossing Name:Quarry RdCity, (County), State :Lancaster, (Fairfield), OHRailroad #:17IORY21RFRA#:514 791LPatrick Engineering #:21777.807

ITEM	UN	IT COST	UNITS	тот	AL
6'x6' Wired House with Equipment	\$	46,500.00	1 EA	\$	46,500.00
Gate/Flasher Assembly	\$	25,250.00	2 EA	\$	50,500.00
			SUBTOTAL	\$	97,000.00
Freight & Handling				\$	2,000.00
			TOTAL MATERIALS	\$	99,000.00
Foreman (1)	\$	162.00	20 hrs	\$	3,240.00
Lead Signalman (2)	\$	121.50	40 hrs	\$	4,860.00
Signalman (2)	\$	94.50	40 hrs	\$	3,780.00
	т	OTAL INST	ALLATION & WIRING	\$	11,880.00
Equipment per day	\$	1,000.00	1 Day	\$	1,000.00
Bungalow Wiring and Test	\$	5,800.00	2 Day	\$	11,600.00
			TOTAL EQUIPMENT	\$	12,600.00
	ΤΟΤΑ	L CROSSING	G WARNING SYSTEM	\$	123,480.00



RAILROAD/HIGHWAY GRADE CROSSING SITE SURVEY

RAILROAD NAME:	Indiana & Ohio Railway Company						
LOCATION:	Lancaster, OH						
PROJECT#:	RR#	17IORY21R	Patrick#	21777.807			
SURVEYED BY:	Troy Sabo		DATE:	7/14/17			
ROADWAY:	Quarry Rd		DOT#:	514791L			
SUBDIVISION:	Lancaster In	nd.	MILEPOST:	2.69			
REGION:	Midwest		SPEED:	10 MPH			
LATITUDE:	39.714409		LONGITUDE:	-82.543529			
NEAREST ADDRESS:	240 Quarry	Rd SE, Lancaster, O	H 43130				
			Crossing within city	y limits? Yes			
REVISED:							
PROJECT SCOPE (PER	AGENCY OF	RDER/DRTS FINDIN	GS):				

New flashing lights and gates with bells and sidelights in NW quadrant. Style C circuitry recommended due to rusty rail conditions.

Special Requireme	ents of C	ity		
Permits	N/A	Type:		Fee: \$
Bonds	N/A	Type:		Fee: \$

RAILROAD CONCERNS/SCOPE ADJUSTMENTS:

Style C is appropriate for rusty rail, but AC interference from transmission lines will likely interfere. Motion sensor with shunt enhancement recommended. Currently one gage rod in western approach, to be replaced with 4 new ties.

SURVEY ATTENDEES:

Name	Title	Company	Email/Phone
Troy Sabo	Asst. Project Manager	Patrick Engineering	614-498-0344
Adam Richter	Signal Supervisor	IORY	513-335-4812
Lauren Leman	Signal Maintainer	IORY	





SECTION 1 - EXISTING WARNING DEVICES

1.1 - EXISTING WARNING DEVICES/CONTROL EQUIPMENT (show on sketch)

Signage	Quantity	Description	Reuse/ Replace
Crossbucks	2		
Stop Signs	-		
Yield Signs	2		
Track Signs	-		
SORS	-		
ENS/DOT	2		
NLT/NRT	-		
Equipment	Quantity	Description (Mast size, lens size, orientation, manufacturer, etc.)	Reuse/ Replace
Flashing Lights	-		
Flashing Lights and Gates	-		
Cantilevers*	-		
Cant/Gate Combo	-		
Ped Gates	-		
Bells	-		
Bridge Signals	-		
Signal Enclosure	-		
Highway/Rail grade			
crossing warning equipment			
type	-		
DAXing for Adjacent Xings	-		

*Include sketch of bolt hole pattern and spacing with measurements if existing cantilever is to be reused.

Location of shunts and type (hardwire, wide and/or narrow band): None

Location of IJ's, bypass and/or tuned-joint couplers: None

NOTES (LIST MANUFACTURER/MODEL/QUADRANT IF APPLICABLE) :

1.2 - ARE FOUNDATIONS POURED IN PLACE:	N/A	
1.3 - EXISTING MASTS OF CAST OR ALUMINUM:	N/A	
1.4 - ROOM AT CROSSING TO STORE EQUIPMENT:	Yes	
If no, specify where equipment can be stored:		
1.5 - ARE EXISTING CIRCUITRY PLANS AVAILABLE:	N/A	
1.6 – CROSSING EQUIPMENT AND TYPE, passive, relay, solid state:	Passive	
1.7 – IS THE ROADWAY BEING RELOCATED:	No	
1.8 – IS THERE A FRA INVENTORY REPORT:	Yes	
Grade Crossing Site Survey		2 of 12





SECTION 2 - PROPOSED WARNING DEVICES

2.1 - PROPOSED WARNING DEVICES/CONTROL EQUIPMENT (show on sketch)

Signage	Quantity	Description
Crossbucks	2	
Stop Signs	-	
Yield Signs	-	
Track Signs	-	
SORS	-	
ENS/DOT	2	
NLT/NRT	-	
Equipment	Quantity	Description (Mast size, lens size, orientation, manufacturer, etc.)
Flashing Lights	-	
Flashing Lights and Gates	2	Sidelights in NW quad for driveway
Cantilevers	-	
Cant/Gate Combo	-	
Ped Gates	-	
Bells	2	
Bridge Signals	-	
Signal Enclosure	1	6x6 house
Highway/Rail grade crossing		
warning equipment type	1	PMD-4

NOTES:

2.2 - TYPE OF FOUNDATIONS TO BE USED:	Steel pyramid
2.3 - ARE FOUR QUADRANT GATES TO BE INCLUDED:	No
If yes, specify exit gate delay/dwell time:	
2.4 - ARE SIDELIGHTS REQUIRED*:	Yes
If yes, specify street/distance from track/quadrant:	Driveway 50' NE of crossing
*If parallel roadway exists, make certain there is sufficient room to install si clearances are required to the front as well as the side of signals.	gnal in that quadrant per MUTCD clearances. Said
2.5 - CROSSING CONTROL EQUIPMENT TERMINATION:	
2.6 - ADDITIONAL EQUIPMENT RECOMMENDED:	Shunt enhancement
2.7 - IS ADDITIONAL FILL MATERIAL REQUIRED:	Yes
If yes, specify location and estimate quantity:	
2.8 – BERM/CRIB WALL/PLATFORM REQUIRED:	Yes
If yes, specify location, size and type:	20' in NW quad for signal foundation



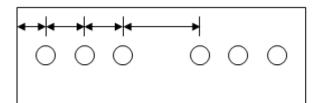


SECTION 3 – TRACK AND RAIL

3.1 – EXISTING TRACK CONDITIONS

Track	Rail Weight	CWR	JT	Bond Type	Track Speed	Track Control	Rusty Rail	Ballast Condition
Mainline	85PS		Х	None	10		Yes	Poor
Siding								
Siding								
Industry								
Storage								

SPECIFY INSULATED JOINT DIMENSIONS AND TYPE (show location on sketch):



3.2 - ARE COMP JOINTS PRESENT:

If yes, show location and sizes on FIELD SKETCH.

3.3 - ARE GUAGE RODS PRESENT:

Insulated / Non-Insulated:

If yes, show location and number on FIELD SKETCH.

3.4 - DO SWITCHES REQUIRE INSULATION:

If yes, show switches on FIELD SKETCH.

3.5 - ANY SHUNT-TYPE SWITCHES:

If yes, describe type and show on FIELD SKETCH:

3.6 - SHUNT ENHANCEMENT REQUIRED:

If yes, specify type:

3.7 - HOW MANY TRACKS THROUGH THE ROADWAY:

What is the distance between tracks (center-to-center):



4"

Yes

100PS to 85PS at crossing surface

Yes

4.5'

Non-insulated, west of surface

No			

No

Yes

2TC

1

3.8 – INDICATE ANY SCHEDULED TRACK REARRANGEMENT OR REMOVAL

None currently scheduled.





3.9 –BALLAST CONDITIONS:

Has a ballast study/reading been performed to determine the ballast resistance?	No
If yes, attach a copy of the results.	
Has a spectrum frequency analysis been performed?	No
If yes, attach a copy of the results.	
3.10 – IS THE PROPOSED CROSSING LOCATED IN SIGNAL TERRITORY?	No
If yes, describe/attach a copy of the plans, CP, Approach signal(s), HWD, DED, and Rock Slide Detection Fences.	
3.11 – ARE THERE ANY EXISTING TRACK CIRCUITS?	No
If yes, describe type/attach a copy of the plans.	
3.12 – ARE THERE ANY TIE-INS OR MODIFICATIONS TO EXISITING CROSSINGS OR SIGNAL SYSTEMS?	No
If yes, describe/attach a copy of the plans.	
3.13 – ARE THERE ANY OVERLAPS IN APPROACHES WITH EXISTING CROSSINGS?	No
If yes, describe/attach a copy of the plans.	
3.14 – ARE THERE ANY SPECIAL TRAIN MOVES OR REGULAR STOPPING OR SWITCHING IN THE PROPOSED APPROACHES?	No
If yes, describe:	
3.15 – ARE THERE ANY QUIET ZONE REQUIREMENTS IN PROPOSED AREA OF CROSSING?	No
If yes, describe:	
3.16 – ARE THERE ANY ELECTRONIC (e.g. <i>NO TURN, DO NOT STOP ON TRACK</i>) SIGNS REQUIRED?	No
If yes, describe and show on FIELD SKETCH:	
3.17 – ARE THERE ANY SPECIAL DPU/STATE SPEED RESTRICTIONS FOR CROSSING?	No
If yes, describe:	





3.18 – ARE THERE DAXing REQUIREMENTS FOR THIS OR ADJACENT CROSSINGS?	No
If yes, describe:	
3.19 – OPERATIONS	
Number of Day train moves (6a-6p):	2 (3 days a week)
Number of Night train moves (6p-6a):	0
Are cars left on tracks near crossing:	No
SECTION 4 – PRE-EN	IPTION
4.1 - PRE-EMPTION CIRCUITRY REQUIRED:	No
If no, skip to section 6. If yes, specify name, distance and direction to intersection:	
If yes, specify type of, distance and direction to traffic signal controller cabinet:	
If yes, specify type of interface, relay, electronic, communication protocol, etc.:	
If yes, specify cable (6 twisted pair), routing and distance to traffic signal controller cabinet:	
If yes, specify interface names applicable to traffic signal control cabinet (AP, SP, Isl Occ, GD, GU, and/or Health):	
4.2 - AUTHORIZING AGENCY:	
4.3 - ROADWAY TRAFFIC ENGINEER:	
4.4 - DATE OF REQUIREMENT:	
SECTION 5 – JOINT RA	AILROAD
5.1 - IS TRACK LEASED FROM ANOTHER RAILROAD:	Yes
If yes, specify railroad and division of maintenance:	CSX owns, IORY maintains
5.2 - DOES ANOTHER RAILROAD OPERATE AT CROSSING	: No

No

No

5.3 - DOES THE FOREIGN RR CROSS OR GO PARALLEL:

5.4 - ANY JOINT FACILITIES WITHIN ONE MILE:

If yes, specify railroad and division of maintenance:





SECTION 6 – POLELINE

6.1	- ARE RAILROAD POLELINES PRESENT	No	_
	If no, skip to section 5. If yes, show on sketch.		
6.2 ·	REMOVE ABANDONED POLELINE:		
	If yes, specify number of spans to be removed:		
	Will Underground conduit/cable be required as a suitable replacement:		
	Will an interim scheme be needed until the suitable replacement is in place?		
	SECTION 7 -	- UTILITIES	
7.1 ·	- IS COMMERCIAL POWER AVAILABLE:	Yes	
	Specify location of nearest pole:	80' west of proposed serv	rice pole
	If no, from where and how far must it come to set this location	rvice	
7.2	POWER COMPANY NAME/CONTACT INFORM		
7.3	NEW METER SERVICE REQUIRED:	Yes	
	Specify 110VAC or 220VAC		
	If no, specify existing meter number:	-	
7.4	- EXISTING UTILITY INFORMATION		Conflicto

Company Name	Type of Utility	Phone Number	Conflicts
AEP	Electric		No
Time Warner	Telecom		Yes
AT&T	Telecom		Yes
Lancaster Municipal	Gas		No
City Of Lancaster	Sewer		No
City Of Lancaster	Water		No





7.5 - DESCRIBE ANY OVERHEAD UTILITY CONFLICTS: (height of lines and proximity to devices to be installed) Power lines west of road need verification of line height to ensure 10' clearance. Overhead lines east of road are non-energized and will not require relocation.

7.6 - DESCRIBE ANY UNDERGROUND UTILITY CONFLICTS: Telecom lines near signal foundations, will require hand digging and possible field adjustments.

7.7 - UTILITIES AND PIPELINES PARALLEL TO TRACKS:	Yes, overhead transmission					
7.8 - NEARBY COMMERCIAL HIGH TENSION LINES:	No					
7.9 - NEARBY COMMERCIAL SUBSTATIONS:	No					
7.10 - NEARBY SOLAR SUBSTATIONS:	No					
7.11 - NEARBY PROPANE/NATURAL GAS SUBSTATIONS:	No					
SECTION 8 – OBSTRUCTIONS						
8.1 - OBSTRUCTIONS TO VISIBILITY OF DEVICES: No						
If yes, show on sketch.						

8.2 - OBSTRUCTIONS TO VISIBILITY ALONG TRACKS:

No

If yes, show on sketch.

8.3 - OBSTRUCTION SOLUTION (PROVIDE CONTACT INFORMATION OF OWNER):

SE	СТ	ION	9 –	RO	ADW	ΆΥ	DAT	Α
----	----	-----	-----	----	-----	----	-----	---

(Show on attached crossing sketch)

9.1 - TYPE OF ROADWAY SURFACE:	Asphalt
If different, specify crossing surface type:	
9.2 - EXISTING ROADWAY WIDTH:	25' (crossing length)
If present, specify shoulder width:	
9.3 - PROPOSED ROADWAY WIDTH:	25' (crossing length)
If present, specify shoulder width:	





9.4 - CROSSING ANGLE:	80
9.5 - VEHICLE SPEED:	35 MPH
9.6 - IS CURBING PRESENT/REQUIRED:	No
9.7 - ARE SIDEWALKS PRESENT:	No
If yes, will they interfere with warning devices:	
9.8 - ARE PEDESTRIAN GATES REQUIRED:	No
9.9 - WIDTH AND TYPE OF MEDIAN:	_N/A
9.10 - LOCATION AND DISTANCE FROM XING TO DRIVEWAYS AND SIDE STREETS:	_50' N to driveway
9.11 - DOES EXISTING DOT/AAR# MATCH INFORMATION PROVIDED:	Yes
SECTION 10 – SI	TE INFORMATION
10.1 - ENCROACHMENTS WITHIN RR PROPERTY	Y: <u>No</u>
If yes, describe, photograph, and include on F SKETCH:	IELD
10.2 - WILL TOPOGRAPHY AFFECT INSTALLATIO	DN: Yes
If yes, describe, photograph, and include on F SKETCH:	IELD Ditches will require grading.
10.3 - WILL DRAINAGE BE AFFECTED:	Yes
If yes, describe, photograph, and include on F	IELD Retaining wall required to protect
SKETCH:	culvert.
10.4 - CULVERTS BE EXTENDED/RELOCATED/R	
10.5 - CONDUIT LENGTH REQUIRED:	_50'
10.6 - UNUSUAL/GEOGRAPHY FEATURES:	No
10.7 - MINES OR SPURS IN AREA:	No
10.8 - RIVER LOCKS:	No





10.9 – ARE USCGS SURVEY MARKE	RS PRESENT:		No		
If yes, describe, photograph, and SKETCH (DO NOT REMOVE M		ELD			
10.10 – ANY ELECTRIFIED ROADS C AREA:	OR TRANSISTS	IN	No		
10.11 – HAS RAILROAD EXPERIENC AT THIS CROSSING RELATED TO T			No		
10.12 – SCRAP DISPOSAL:	No	TYPE:	N/A	_ FEE:	N/A
10.13 - ADDITIONAL COMMENTS/DE Circuitry design should take into account interference from transmission lines.			re head and web bo	onds) and A	С
10.14 - NE QUADRANT: Driveway for private company, requires	s sidelights.				
10.15 - NW QUADRANT: Retaining wall required for signal found and Water.	dation to avoid e	existing dit	ch and culvert. Und	lerground Fi	ber, Gas
10.16 - SE QUADRANT: Fill required for driveway. Underground	I Fiber and Sew	ver			
10.17 - SW QUADRANT:					





SECTION 11 – PHOTO LOG

Image #	Description	QUAD	Direction
001	Existing Yield Signs	SE	N
002	Overhead Electric Lines	SE	S
003	Gas Line Markings	SW	N
004	Existing Yield Signs and Overhead Lines	SW	N
005	Gas Line Marker	SW	W
006	AEP Distribution Pole	SW	W
007	Overhead Lines and Gas Marker	SW	N
008	Proposed Signal House Location	SW	Е
009	Existing Roadway Grade	SW	N
010	Eastern Railroad Approach	SW	E
011	Northern Roadway Approach	SW	N
012	Gas Marker	SW	N
013	Gas Marker and Valve	NW	S
014	Existing Yield Signs and Overhead Lines	NW	S
015	Private Driveway	NW	SE
016	2' Diameter Concrete Culvert Pipe	NW	S
017	Concrete Culvert Pipe and Telecom Pedestals	NE	W
018	Northern Roadway Approach and Telecom Pedestals	NW	N
019	Telecom Line Markings	NE	SW
020	Telecom Line Markings and Existing Yield Signs	NE	S
021	Gas Line Markings	NE	SW
022	Gas and Telecom Line Markings	NE	SW
023	Telecom Line Markings	NW	W
024	Gas and Telecom Line Markings	SE	W





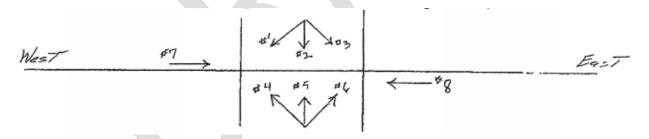
SECTION 12 – ADDITIONAL INSTRUCTIONS

12.1 A minimum of two field sketches is required. One should show a 'closeup' view of the crossing and the second should show the approaches to the crossing. **If the closeup view sketch is too congested, then include separate drawings for existing and proposed**. Pertinent structures beyond the approach limits of the crossing should be noted/shown if there is a possibility of these affecting project crossing installation/operation.

These sketches are to include, but not limited to:

- a. Cut sections (relayed and non-relayed)
- b. Switches (elec. Lock, bolt lock, H.T. derails, etc)
- c. Signal locations (automatic and controlled)
- d. Other road crossings (protected and unprotected) take pictures.
- e. Slide fences, DED/TSÄ's, HBD,
- f. Non-interlocked RR crossings
- g. Mileposts
- h. Angle of crossing
- i. Speed of trains
- j. Snow blowers within approach of crossings
- k. Bridges (type, height, length) take pictures
- I. AC meter service location
- m. Roadway dimensions (width, shoulders, median, sidewalk, etc.)
- n. Locate utilities and pipelines (underground and overhead) take photos.

12.2 Take a minimum of eight (8) pictures, as shown below, and number each picture according to the numbered arrows on your field sketch. If additional pictures are taken, show additional numbered arrows on the field sketch to which pictures correspond.



- **12.3** If AAR/DOT number plate is posted, include in picture.
- **12.4** Take pictures inside any cases and/or signal houses.
- 12.5 If copies plans are not available, then take pictures of circuit plans



Quarry Rd 001 - Existing Yield Signs – SE QUAD looking North



Quarry Rd 002 - Overhead Electric Lines – SE QUAD looking South



Quarry Rd 003 - Gas Line Markings - SW QUAD looking North



Quarry Rd 004 - Existing Yield Signs and Overhead Lines - SW QUAD looking North



Quarry Rd 005 - Gas Line Marker - SW QUAD looking West



Quarry Rd 006 - AEP Distribution Pole - SW QUAD looking West



Quarry Rd 007 - Overhead Lines and Gas Marker - SW QUAD looking North



Quarry Rd 008 - Proposed Signal House Location - SW QUAD looking East



Quarry Rd 009 - Existing Roadway Grade - SW QUAD looking North



Quarry Rd 010 - Eastern Railroad Approach - SW QUAD looking East



Quarry Rd 011 - Northern Roadway Approach - SW QUAD looking North



Quarry Rd 012 - Gas Marker - SW QUAD looking North



Quarry Rd 013 - Gas Marker and Valve - NW QUAD looking South



Quarry Rd 014 - Existing Yield Signs and Overhead Lines - NW QUAD looking South



Quarry Rd 015 - Private Driveway - NW QUAD looking Southeast



Quarry Rd 016 - 2' Diameter Concrete Culvert Pipe - NW QUAD looking South



Quarry Rd 017 - Concrete Culvert Pipe and Telecom Pedestals - NE QUAD looking West



Quarry Rd 018 - Northern Roadway Approach and Telecom Pedestals - NW QUAD looking North



Quarry Rd 019 - Telecom Line Markings - NE QUAD looking Southwest



Quarry Rd 020 - Telecom Line Markings and Existing Yield Signs - NE QUAD looking South



Quarry Rd 021 - Gas Line Markings - NE QUAD looking Southwest



Quarry Rd 022 - Gas and Telecom Line Markings - NE QUAD looking Southwest



Quarry Rd 023 - Telecom Line Markings - NW QUAD looking West



Quarry Rd 024 - Gas and Telecom Line Markings - SE QUAD looking West



March 7, 2017

John Hilborn, P.E. Genesee & Wyoming/IORY Vice President – Engineering 4349 Easton Way, Suite 110 Columbus, Ohio 43219

RE: Fayette County, Pearl Street, DOT 151913H, PID# 104595 Fairfield County, Quarry Road, DOT 514791L, PID# 104638

Dear Mr. Hilborn:

Diagnostic reviews were held at the above grade crossings on November 18, 2016. The crossings have been recommended for the installation of lights and gates.

The Genesee & Wyoming/IORY is authorized to proceed with the site plans and cost estimates (PE) 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.

The ORDC is not requesting that the PUCO issue an Order at this time. When the ORDC receives the PE it will be evaluated and a construction-only Order will be requested from PUCO. Please submit the PE to ORDC within 90 days of receipt of this letter.

The diagnostic review forms are attached. Please note any recommendations (page 5), if any, made by the team with regard to 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

I am the Project Manager for this project. I can be reached at (614) 752.0399, or Eric.Neff@dot.ohio.gov, if you have any questions.

Sincerely,

Eric T. Neff

Eric Neff Project Manager

C: Jill Henry, PUCO, Grade Crossing Planner ORDC (file)



Commissioners

Chio Public Utilities Commission

Lynn Slaby M. Beth Trombold Thomas W. Johnson Vacant

January 24, 2017

Indiana & Ohio Railway Company Mr. John Hilborn Vice President-Engineering, Midwest Region Railroads* 4349 Easton Way, Suite 110 Columbus, OH 43219

> Re: 1) Fairfield County, Quarry Road, DOT#514-791L, hereinafter referred to as the "Project"

Dear Mr. Hilborn:

The Public Utilities Commission of Ohio (PUCO) has identified and the Ohio Rail Development Commission (ORDC) surveyed, on October 18, 2016, 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 Railway (IORY). 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 or 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.

(614) 466-3016 www.PUCO.ohio.gov Page 2 of 2 Fairfield County IORY Quarry Rd Letter Agreement

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,

Milard debouch

Milan Orbovich Director of Transportation Public Utilities Commission of Ohio

24/17 Date

Indiana Matthew Dietrich By Executive Director Ohio Rail Development Commission Title Date Date

1.

Gany R. Long Senior Vice President 2-27-17

Page 2 of 2 Fairfield County IORY Quarry Rd Letter Agreement

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Sincerely,

Miles debeorch

Milan Orbovich Director of Transportation Public Utilities Commission of Ohio

24/17 Date

Matthew Dietrich Executive Director Ohio Rail Development Commission

Date 1-27-17

Indiana & Ohio Railway

Ву _____

Title_____

Date_____

OHIO RAIL DEVELOPMENT COMMISSION

Ohio Rail Development Commission Mail Stop 3140, 1980 W. Broad Street, Columbus, OH 43223

.

Diagnostic Review Team Survey

Reason for Survey: (e.g. formula, accident, constituent, etc.)	la	E	Date: 10	/18/2016	
Location Data					
Street or Road Name: Quarry Road					
Route/Road Number (i.e. Twp., Co., SR or US)		U	IS DOT No.:	514791L	
County: FAI Township:		City: (In or Near)	City of Lanca	aster	
Railroad Name: Indiana & Ohio Railway	Railroad Division:			Branch/Line Name:	
Nearest RR Timetable Station: Lancaster			RR Milepost	2.69	
On-Site Review Team					
(Include: Name - Organization - Phone Number - 1	Email) ORDC VoIP v	614-644.	-0291 0613	- 	-
3. 8 1 2	POT	742-508-		 ,	-
	ancaste/	740-687-0			-
	Lancaster	is 11	11		_
6. Left Casto	DUCD	614-84	73011	54/2	_
7. Tim Deitz 1	ANCASHOR UST	(790) 608-	1743		
					-
8					-
8					- -
					-
9	Instal	led?		Quantity/Comments	-
9 Existing Traffic Control Devices	Construction and a state of the	□ No			
9 Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs	Instal X Yes Yes	□ No ☑ No		Quantity/Comments	
9	Instal	□ No ☑ No ☑ No			
9	Instal	□ No ☑ No ☑ No □ No			
9	Instal	□ No ☑ No ☑ No □ No □ No	W		
9	Instal	□ No ☑ No ☑ No □ No ☑ No ☑ No			
9	Instal Yes	□ No ☑ No ☑ No □ No ☑ No ☑ No ☑ No			
9	Instal Yes	□ No ☑ No ☑ No □ No ☑ No ☑ No ☑ No ☑ No ☑ No			
9	Instal Yes	□ No ☑ No ☑ No □ No ☑ No ☑ No ☑ No ☑ No ☑ No	W	VIECD	
9	Instal Yes	No ☑ No		VIECD	
9	Instal Yes	No ☑ No	Number:	VIECD Length:	
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9	Instal Yes	No X No X No No No X No <td>Number:</td> <td>VIECD Length: Length:</td> <td></td>	Number:	VIECD Length: Length:	

	Ini	tial Information (from database)	Revised
Number & dates of crashes in previous 5 years	0		
Hazard Ranking	705	Date Run: 9/30/16	August of Marine strategies and a statistical strategies and an and a statistical strategies and a statistical s
Railroad Data			
Railroad Character	ristics	Initial Information (from database)	Revised
Total trains per day		4	
< I per day			
Day thru trains		4	
Night thru trains		2	/
Daytime switching mover			
Nighttime switching move	ements		
Total number of tracks		1	
Number of main tracks		1	
Number of other tracks		25	10
Maximum train speed		25	10
Typical train speed Amtrak		25	10
AIIWAK		·	
If multiple tracks, can two tr Can one train block the mot Can one or more tracks be Are there other track(s) cro	ains occupy cr orists' view o eliminated thr ossing this sam	nce adequate in all quadrants? (See Table 1) rossing at the same time? f another train at crossing? Yes (Explain be ough the crossing? Yes No e roadway within 100 ft of this crossing? Y	elow) 🕅 No
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Quadrant NW Curb and Gutter:	Quadrant SE Curb and 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	X None	
Pedestrians: 🗹 No 🗌 Yes		
Is sidewalk present? 🖌 No 🗌 Yes		
Is there a nearby intersection that could cause queuing over If yes, Distance	the crossing? 🖾 No 🗌 Yes	
ls this intersection signalized? 🖾No 🛛 🗌 Yes		
Are the signals currently interconnected with the existing	crossing warning devices? 🖾 No 🛛 Yes	
ls there a 'Do not Stop on Track' sign? 🚺 No 🛛 🗌 `	Yes	
location in the foreseeable future? 💢 No 🛛 🗌 Yes	s, nearby new or upgraded traffic signal, sidewalk) planned at or near this	
If yes, Improvement type Lead Age	ency Timeline/completion -	
Is it the consensus of the Diagnostic Review Team that this Explain reasons:	is a potential closure project: 🕅 No 🗌 Yes	
Type of Development	nearby schools:	
Industrial Commercial		
Utility Information		
ls commercial power available? 🗌 No 🛛 🕅 Yes		
Utility Provider (Company Name)	Phone Number	
Nearest Available Power Source		
What other utilities are present? Image: Calification of the		
Is(are) there potential utility conflict(s) [] Yes [] N Comments:	lo 🖄 Unknown	

-

Potential Red Flags / Project Challenges

Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known):

Crossing Consolidation or Closure:

Real Estate or ROW:

Culverts / Drainage / Ballast Conditions:

Roadway and/or Sidewalks:

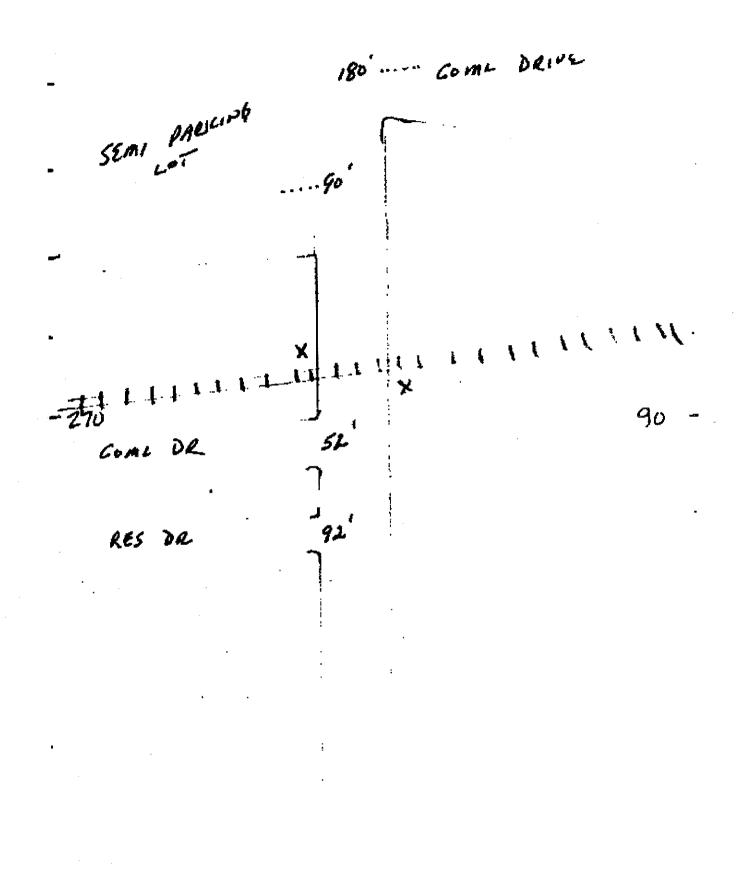
Circuitry (e.g. reaches out to other crossings, specific needs, etc.):

Environmental:

Other:

Jo. 18-16

Diagnostic Team Recommendations Quadrants Needed X Install/upgrade active devices Automatic Flashing Lights (AFLS) AFLS /Cants NW <u> 25</u> AFLS / Gates 4 AFLS / Gates / Cants Bells / number Upgrade circuitry / type NW Sidelights Guardrail Needed Install/Replace curb Bungalow placement & offset from rail & highway Other (define) Π Comments: Type C cirvitry reconnerded Install/upgrade traffic signal preemption No improvements needed Other (define) Acknowledgement of Recommendations (each entity represented at the diagnostic must have at least one signature acknowledgement): MAN 51 Field Dimensions Show North Sidewalk Direction Parkway Roadway Roadway Parkway Sidewalk



http://www.ohiorail.ohio.gov/sites\$/fai/fai073/fai073s.png

10/17/2016

TABLE I

Clearing Sight Distances

0 8	
Maximum Authorized Train Speed	Distance (dT) Along Railroad from Crossing (ft)
1 - 10	240
15	360
287	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.

Table 2

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 5foot 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.

JNK 10-18-16

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

11/3/2017 9:36:56 AM

in

Case No(s). 17-2286-RR-FED

Summary: Application In the Matter of a Request for the Installation of Active Warning Devices at IORY Railroad Crossings, DOT#151-913H, Pearl Street, in Fayette County & DOT#514-791L, Quarry Road, in Fairfield County, Ohio. electronically filed by Mrs. Jill A Henry on behalf of PUCO/Rail Division