Public Utilities Commission of Ohio

Memo

To: Docketing Division

From: Jill Henry, Rail Specialist, Rail Division

Cc: PUCO Legal Department

Date: 06/28/2019

Re: PUCO Case No. 19-1390-RR-FED- In the Matter of a Request for the Upgrade of the Active Warning Devices, Surface Reconstruction, and the Installation of Traffic Preemption at the Columbus & Ohio River Railroad Crossing, Parrot Street DOT#152-068H in Knox County, Ohio.

On April 24, 2018, the Ohio Rail Development Commission (ORDC) authorized funding for Columbus & Ohio River Railroad (CUOH) to upgrade the lights and gates, reconstruct the crossing surface, and install traffic preemption at Parrot Street, DOT#152-068H in Knox County, Ohio. The crossing was surveyed on October 12, 2017 and found to warrant the upgrades. The electric utility provider for this crossing is AEP Ohio.

The project will be paid for with federal and railroad funds and is actual cost. The plans and estimates for the project in the amount of \$253,953.47 have been approved. ORDC will be responsible for \$110,457.46 for the warning devices (100% federal funding) and \$129,146.41 (90% federal funding) for the surface reconstruction. CUOH will be responsible for \$14,349.60 (10% railroad funding) for the surface reconstruction. 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:

Northeast Region-Genesee & Wyoming Len Wagner Senior Vice President 201 N. Penn Street Punxsutawney, PA 15767

Columbus & Ohio River Railroad Gene Hensley Supervisor C&S 47849 Papermill Road Coshocton, OH 43812

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

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

City of Mt. Vernon Brian Ball City Engineer 40 Public Square Mt. Vernon, OH 43050-3241

AEP Ohio

OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO: Randall Schumacher, Supervisor, Rail Division, PUCO

FROM: Cathy Stout, Manager, Safety Section, ORDC

BY: Greg Gronbach, Project Manager, Safety Section, ORDC

SUBJECT: KNO Parrott St. DOT# 152068H PID# 106570

DATE: June 7, 2019

The Ohio Rail Development Commission (ORDC) established a diagnostic survey at the subject location on October 12, 2017. The Public Utilities Commission of Ohio (PUCO) attended the review. The Diagnostic Team recommended warning device circuitry upgrade, relocation of the warning devices and surface reconstruction. 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.

Project Manager

Attachment: Diagnostic Review

Letter Agreement PE Authorization

Plan, Estimate & Material List Construction Authorization

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





Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223 Mike DeWine, Governor • Mark Policinski, ORDC Chairman

June 26, 2019

Johnny Varner Assistant Vice President – Regional Engineering Genesee & Wyoming/CUOH 201 N. Penn St Punxsutawney, PA 15767

RE: Amended Construction Authorization Signals & Surface

KNO Parrott St. DOT# 152068H PID# 106570

Dear Mr. Varner:

The plan dated May 24, 2018 and estimate dated February 11, 2019 for the referenced project has been reviewed and is acceptable. Genesee & Wyoming/CUOH may proceed with the construction of the proposed grade crossing warning system and surface reconstruction in accordance with the abbreviated plan. Construction may include but is not limited to circuitry design, installation of service poles, procurement of materials and signal construction. 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. Amended reimbursement of eligible actual cost for the warning devices are limited to \$110,457.46 and will be adjusted based on bid tabulations if applicable. Amended reimbursement of eligible actual cost for the surface reconstruction are limited to \$129,146.41 (\$143,496.01 minus 10% City of Mount Vernon share) and will be adjusted based on bid tabulations if applicable. Warning device preliminary engineering ("PE") and construction costs will be borne 100% by ORDC. Surface reconstruction and asphalt approach costs will be borne 90% by ORDC and 10% by the City of Mount Vernon. 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 Genesee & Wyoming/CUOH accepting the following instructions:

1. Genesee & Wyoming/CUOH's project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to Greg Gronbach, ORDC, email Gronbach@dot.ohio.gov, and to the Public Utilities Commission of Ohio at Jill.Henry@puc.state.oh.us. Genesee & Wyoming/CUOH'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. Genesee & Wyoming/CUOH 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 Genesee & Wyoming/CUOH.
- 3. Genesee & Wyoming/CUOH's project foremen will notify Greg Gronbach at 614-745-6760 (telephone) or Gregory.Gronbach@dot.ohio.gov (email) of any changes in the scope of work, cost overruns, material changes, etc. which are not included in the approved plan and estimate and secure approval of same before the work is performed.
- 4. Open cut of roadways is *not permitted* except in unusual circumstances and must be coordinated with the local highway authority and preapproved by ORDC.
- 5. Genesee & Wyoming/CUOH will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed ODOT Purchase Order to reference when billing.
- 6. Genesee & Wyoming/CUOH 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,

Project Manager

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





Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223 Mike DeWine, Governor • Mark Policinski, ORDC Chairman

June 7, 2019

Johnny Varner Assistant Vice President – Regional Engineering Genesee & Wyoming/CUOH 201 N. Penn St Punxsutawney, PA 15767

RE: Construction Authorization Signals & Surface KNO Parrott St. DOT# 152068H PID# 106570

Dear Mr. Varner:

The plan dated May 24, 2018 and estimate dated February 11, 2019 for the referenced project has been reviewed and is acceptable. Genesee & Wyoming/CUOH may proceed with the construction of the proposed grade crossing warning system and surface reconstruction in accordance with the abbreviated plan. Construction may include but is not limited to circuitry design, installation of service poles, procurement of materials and signal construction. 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 cost is limited to \$253,953.47 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 Genesee & Wyoming/CUOH accepting the following instructions:

- 1. Genesee & Wyoming/CUOH's project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to Greg Gronbach, ORDC, email Gronbach@dot.ohio.gov, and to the Public Utilities Commission of Ohio at Jill.Henry@puc.state.oh.us. Genesee & Wyoming/CUOH'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. Genesee & Wyoming/CUOH 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 Genesee & Wyoming/CUOH.



- 3. Genesee & Wyoming/CUOH's project foremen will notify Greg Gronbach at 614-745-6760 (telephone) or Gregory.Gronbach@dot.ohio.gov (email) of any changes in the scope of work, cost overruns, material changes, etc. which are not included in the approved plan and estimate and secure approval of same before the work is performed.
- 4. Open cut of roadways is *not permitted* except in unusual circumstances and must be coordinated with the local highway authority and preapproved by ORDC.
- 5. Genesee & Wyoming/CUOH will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed ODOT Purchase Order to reference when billing.
- 6. Genesee & Wyoming/CUOH 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,

Project Manager

C: Randall Schumacher, Rail Division Supervisor, PUCO Jill Henry, Rail Specialist, PUCO

Cathy Stout, ORDC

Heather Hamilton, ORDC

ORDC (file)

Mt Vernon, Knox County, OH – Signal Upgrades at Parrot St - 152068H; CUOH MP 23.37; NE Region; PID# 106570; 18CUOH13R

Preliminary Estimate: \$184,900.00

Vendor	Vendor Estimate
Progress Rail	\$110,457.46
Railroad Signal Services	\$116,470.64
Interrail	\$123,446.42
Saratoga Railroad Engineering	\$128,490.08
TCR	\$137,031.00
СТС	\$154,743.80
RJ Corman	\$162,562.20
CDL Electric	\$164,150.00

DUE DATE: 4/22/2019

Lowest Bid Amount: \$110,457.46 **Progress Rail** Lowest Bidder: Lowest By Amount: \$6,013.18

Second Lowest Bid: \$116,470.64

Railroad Signal Services Second Lowest Bidder:

Preliminary Estimate	Variance Cost	Variance%
\$184,900.00	(\$ 74,442.54)	-40.26%
\$184,900.00	(\$ 68,429.36)	-37.01%
\$184,900.00	(\$ 61,453.58)	-33.24%
\$184,900.00	(\$ 56,409.92)	-30.51%
\$184,900.00	(\$ 47,869.00)	-25.89%
\$184,900.00	(\$ 30,156.20)	-16.31%
\$184,900.00	(\$ 22,337.80)	-12.08%
\$184,900.00	(\$ 20,750.00)	-11.22%
\$184,900.00		
\$184,900.00		
\$184,900.00		
\$184,900.00		
\$184,900.00		

				Ohio Central Railroad			
				Parrot Street			
EFFEC ⁻	TIVE DA	TE:	4/18/201	FORCE ACCOUNT ESTIMATE 9	DOT # 152 068	Н	
STATE	PROJEC	CT #:		NA	MILE POST:	BQ 23.42	2
OP #:	NA				CONTRACTOR	R: INTERF	RAIL
LOCAT	ION NAI	ΛE:	Parrot St	reet, Mount Vernon, OH	ESTIMATE #:	1	
LOCAT	ION DES	CRIF	PTION:	Install 6*6 House, PMD4R with Adv Preempt, (2) S60 Gate Flasher Combo, Meter Service	ce		
QTY	<u> </u>	ITE	М	DESCRIPTION		COST	
_	MATER	IAL		SHOP MATERIAL			\$40,601.36
	MATER			CONSUMABLES MATERIAL			\$0.00
	MATER			FIELD MATERIAL			\$42,928.01
	MATER	IAL		SUB TOTAL MATERIAL			\$83,529.37
	TAX			SALES TAX			\$5,220.59
1	FREIGH	łT		5% OF MATERIAL			\$4,176.47
				GRAND TOTAL MATERIAL			\$92,926.42
DAYS		LABO	DR .	DESCRIPTION		COST	
3.0	CONST	RUC	TION	1 MANDAY = 10 HOUR WORKDAY PER MAN = \$350.00 PER MANDAY			\$10,500.00
	SHOP	1100	11011	1 MANDAY = 10 HOUR WORKDAY PER MAN = \$350.00 PER MANDAY			\$1,750.00
		0.10	DOING	SUBSISTENCE FOR CONSTRUCTION FORCES - \$105.00 PER DAY			
	MEALS			¥			\$3,570.00
4	SUPER'		1	INTERRAIL IN SERVICE TESTING AND SUPERVISION @ \$90.00 PER HOUR			\$3,600.00
	BORING	3-FT	100	@ \$30 PER FOOT			\$3,000.00
				TOTAL MANPOWER			\$22,420.00
							+,
DAYS		ITEI	М	DESCRIPTION		COST	
6	BACKH	OE		4 WHEEL DRIVE			\$900.00
0	DUMP 1	ΓRUC	K	2-1/2 TON			\$0.00
6	TRUCK	& TR	AILER	Utility Truck with tools			\$900.00
6	воом	TRUC	CK	75' HYDRO-BOOM			\$900.00
	60 HP T			HERTZ/VERMEER			\$0.00
	TRUCK			EQUIPMENT TRUCK AND TRAILER			\$900.00
							\$0.00
	AIR CO		ESSUR	350 CFM COMPRESSOR W/PAVEMENT BREAKER JACKHAMMER			
	DUMPS			REFUSE CONTAINER AND DISPOSAL FEE PER MONTH			\$0.00
0	PORT-A	N-JON	l	PORTABLE REST ROOM PER MONTH			\$0.00
				TOTAL EQUIPMENT	1		\$3,600.00
				UP-TO-DATE PLANS			\$1,500.00
				CONTRACT ENGINEERING			\$3,000.00
				GSWR RR- CROSSING TOTAL ESTIMATED Signal COST			\$123,446.42
_				INCLUDE INSTALLATION OF POWER SERVICE, PLACING SYSTEM IN SERVICE. struction for A.C.power. It does not include any aid in construction to relocating overhead			
lines.	IMFR: T	HISF	STIMATE	SHOULD BE CONSIDERED VOID ONE YEAR FROM THE DATE OF ESTIMATE. IT			
				AND MATERIAL FOR AC POWER OR ANY OTHER UTILITY AID TO CONSTRUCTION.			

BID ANALYSIS

Mt Vernon, Knox County, OH – Surface Upgrades at Parrot St - 152068H; CUOH MP 23.37; NE Region; PID# 106570; 19CUOH01R

Preliminary Estimate: \$179,695.00

Vendor	Vendor Estimate
CR Construction	\$143,496.01
RailWorks	\$180,280.00
Wintrow	\$184,498.48
Frontier Railroad Services	\$315,477.00

DUE DATE: 5/3/2019

Lowest Bid Amount: \$143,496.01

Lowest Bidder: CR Construction

Lowest By Amount: \$36,783.99

Second Lowest Bid: \$180,280.00

Second Lowest Bidder: RailWorks

Preliminary Estimate	Variance Cost	Variance%
\$179,695.00	(\$ 36,198.99)	-20.14%
\$179,695.00	\$ 585.00	0.33%
\$179,695.00	\$ 4,803.48	2.67%
\$179,695.00	\$ 135,782.00	75.56%
\$179,695.00		
\$179,695.00		
\$179,695.00		
\$179,695.00		
\$179,695.00		
\$179,695.00		
\$179,695.00		
\$179,695.00		
\$179,695.00		

OHIO RAIL DEVELOPMENT COMMISSION



Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223 John R. Kasich, Governor • Mark Policinski, ORDC Chairman

December 10, 2018

Johnny Varner Assistant Vice President – Regional Engineering Genesee & Wyoming/CUOH 201 N. Penn St Punxsutawney, PA 15767

RE: PE Submitted RR Solicit Bids KNO Parrott St. DOT# 152068H PID# 106570

Dear Mr. Varner:

The plan and estimate transmitted October 11, 2018 for the referenced project has been reviewed and is acceptable. Genesee & Wyoming/CUOH may proceed with soliciting bids for the proposed grade crossing active warning upgrades in accordance with the abbreviated plan. Separate grade crossing surface bid authorization to follow, once ORDC receives final surface design. 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.

A construction authorization will be sent once the bid documents have been received and approved. No field work may be started without a construction authorization from this office.

Sincerely,

Project Manager

Ohio Railroad Development Commission

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



OHIO RAIL DEVELOPMENT COMMISSION



Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223 Mike DeWine, Governor • Mark Policinski, ORDC Chairman

February 11, 2019

Johnny Varner Assistant Vice President – Regional Engineering Genesee & Wyoming/CUOH 201 N. Penn St Punxsutawney, PA 15767

RE: PE Submitted RR Solicit Bids Surface KNO Parrott St. DOT# 152068H PID# 106570

Dear Mr. Varner:

The plan and estimate transmitted February 11, 2019, for the referenced project has been reviewed and is acceptable. Genesee & Wyoming/CUOH may proceed with soliciting bids for the proposed grade crossing surface in accordance with the abbreviated plan. A separate PE Submitted RR Solicit Bid letter for the active warning signals was sent on December 10, 2018. 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.

A construction authorization will be sent once the bid documents have been received and approved. No field work may be started without a construction authorization from this office.

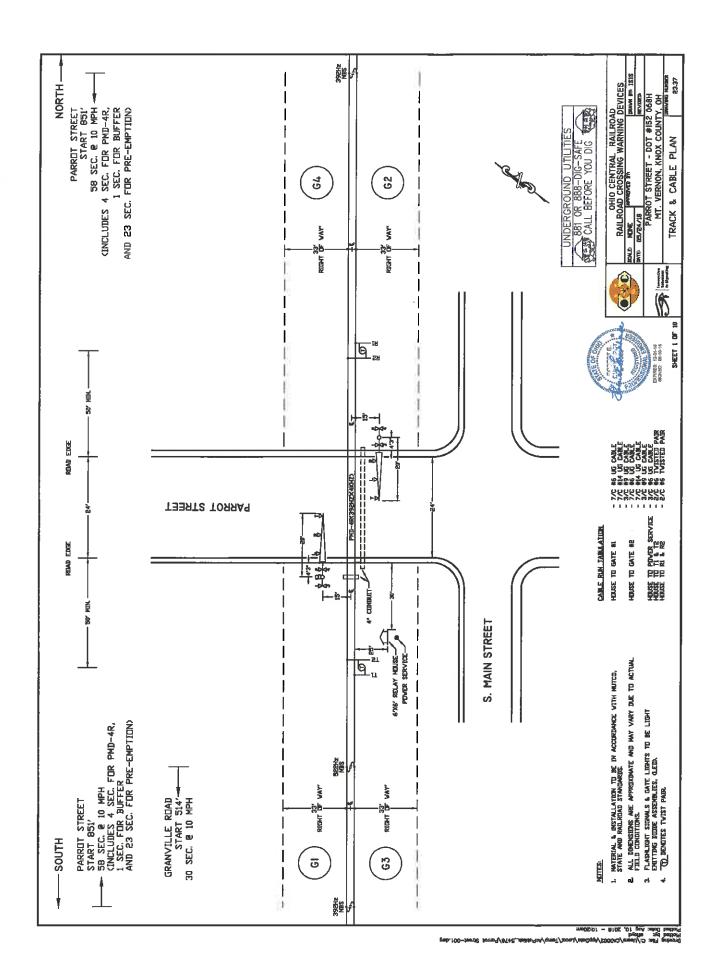
Sincerely,

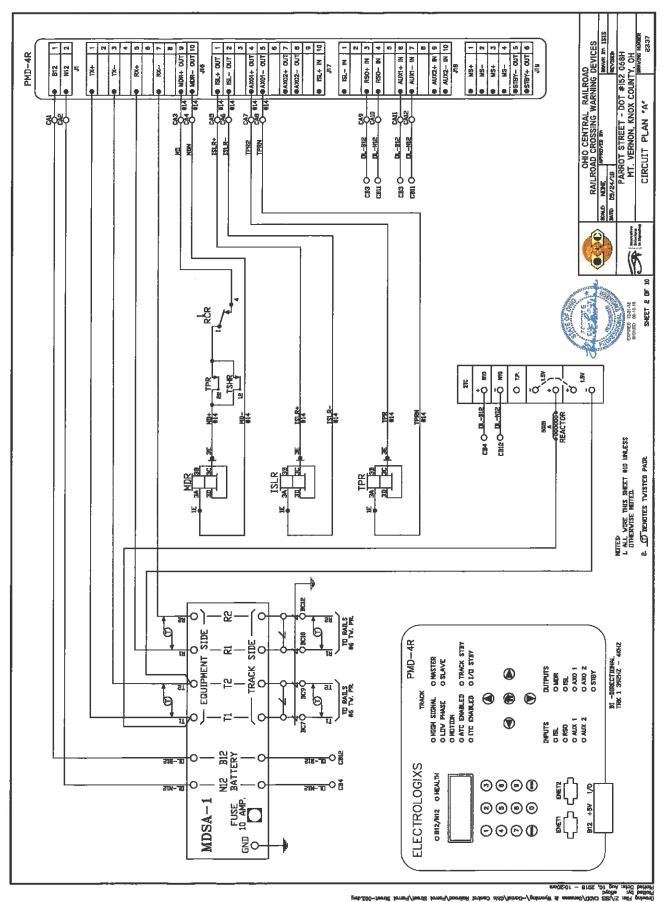
Project Manager

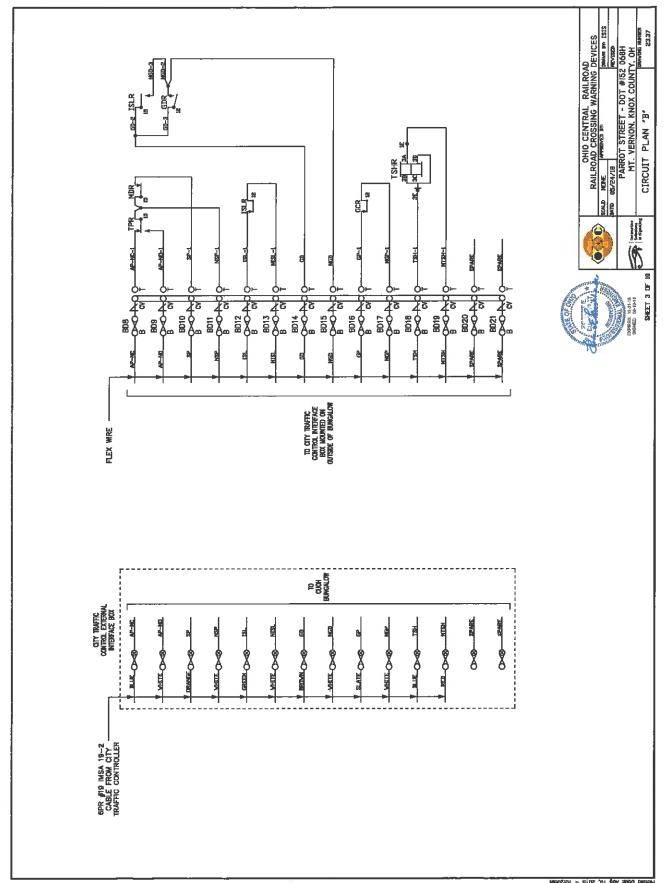
Ohio Railroad Development Commission

C: Randall Schumacher, Supervisor, Rail Division, PUCO
Jill Henry, Rail Division Specialist, PUCO
Cathy Stout, ORDC
Heather Hamilton, ORDC
Jacob Smith, GWRR
Gene Hensley, GWRR
ORDC (file)









PROGRAM INFORMATION PMD-4R

Approach Langth	Irack 1. 851 ft
Approach Frequency	392Hz
Tronsmitter Check Value (-7.0 to 15.0 Ohms)**	
Master/Slave Option	Master
Approach Direction Mode Uni/Bi	ADL(Bi)
Lumped Impedance Adjustment Value (-9 to +9)**	
LOS Time (seconds)	ADL(16 sec)
False Shunt Detection Enable/Disable	ADL(Discible)
Shunt Detection RX Level	ADL(80 RX)
Shunt Detection Delay Time	ADL(0 min)
Approach Release Enable/Disable	ADL(Disable)
Approach Release RX Level	ADL(80 RX)
Approach Release Delay Time	ADL(0 min)
Constant Warning/Motion Detector	ADL(CW)
Requested Worning Time*	30 sec
Advance Preempt Time*	23 sec
AUX Recovery Delay	ADL(5 sec)
Parameter Name	
Site ID	FDL(Porrot Street)
Approach Track Circuit Enable/Disable	FDL(DISABLED)
Maximum Approach Track Disable Time	FDL(2 hours)
nitter	FDL(Zero (0))
Normal, Shart, and Very Shart Approach	FDL(Normal)
Transmitter Check Adjustment	FDL(Zero (0))
Ballast Compensation Value	143
Phase Compensation Value	FDL(Zero (0) Degrees)
Auto RX	FDL(Enabled)
lalond Type	FDL(Internal)
Track Circuit Enable/Disable	FDL(Enabled)
aland Frequency (KHz)	4KHz
Island Transmitter Gain	FDL(0)
Island LOS (seconds)	FDL(2 sec)
Island Fault Setting	FDL(2)

RAILROAD CROSSING WARNING DEVICES

RAME NUNE DEVICES

PARTOTES IN ROAD FOR THE TEST

RECURSES

PARROT STREET - DOT #152 068H

MT. VERNON, KNOX COUNTY, 08H

MT. VERNON, KNOX COUNTY, 08H

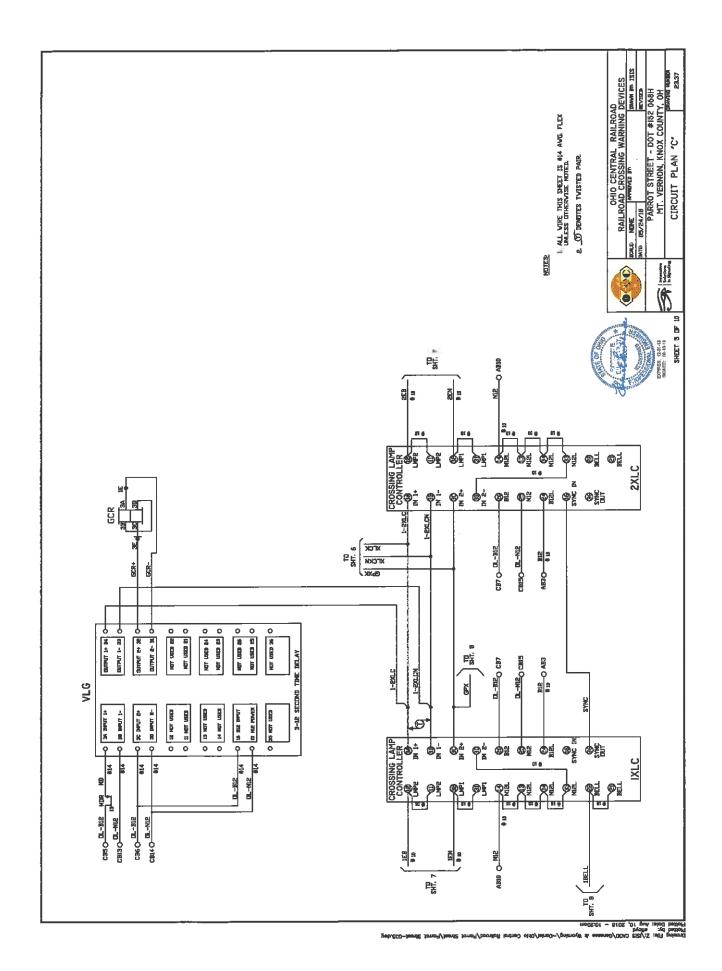
RECURSES

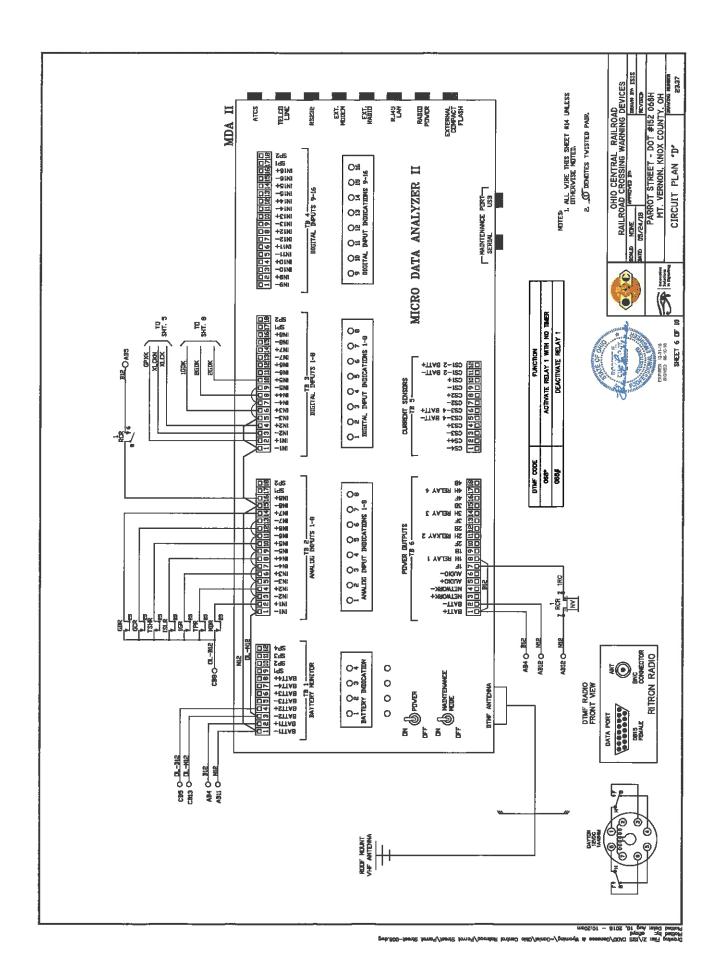
PARROT STREET - BOT #152 068H

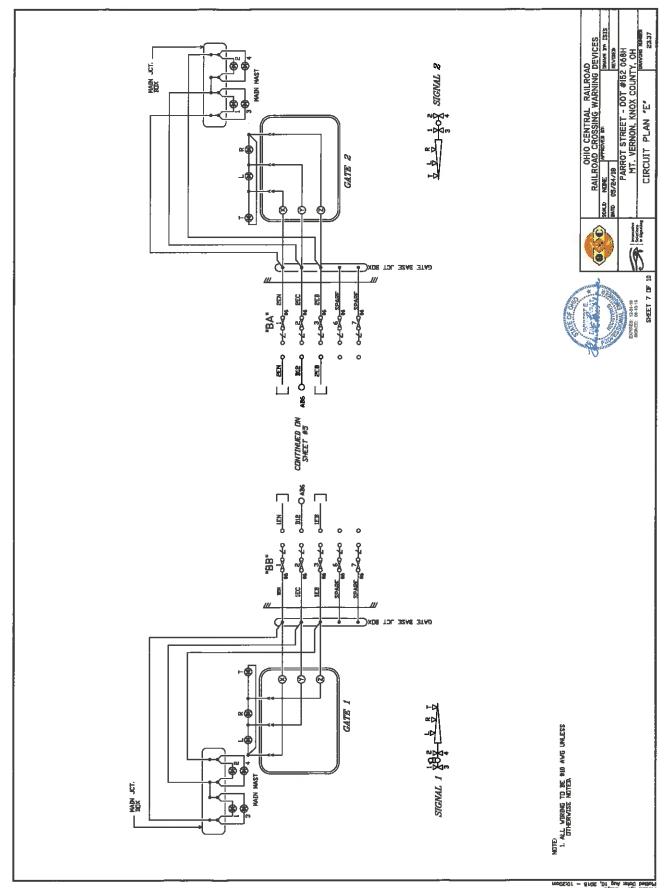
MT. VERNON, KNOX COUNTY, 08H

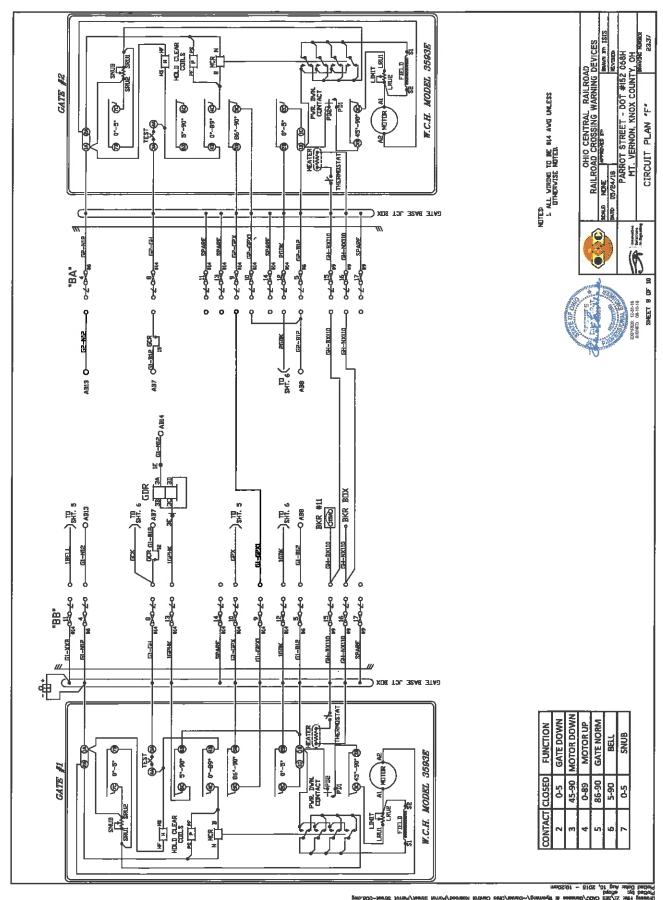
RECURSES

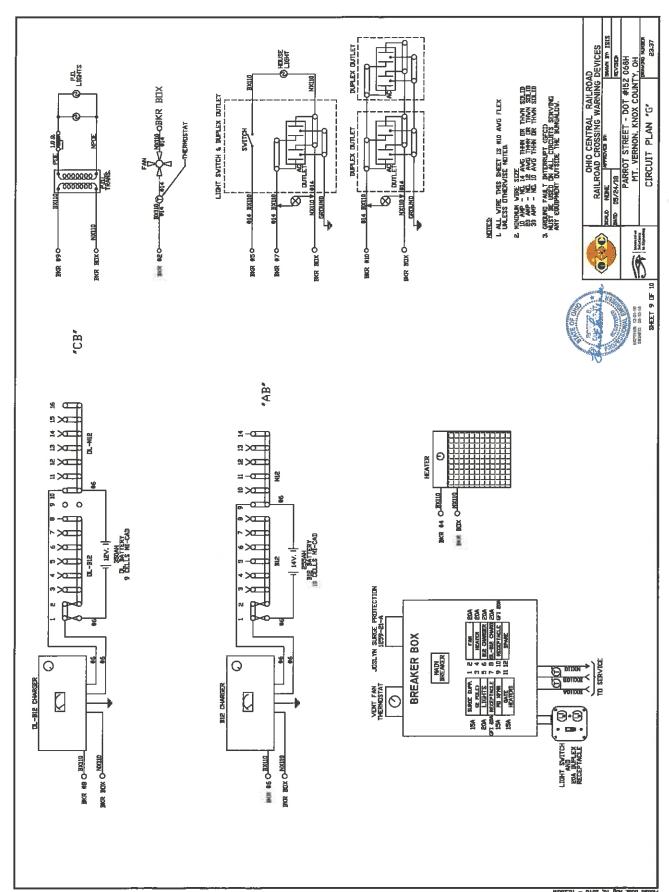
SHEET 3 OF 9

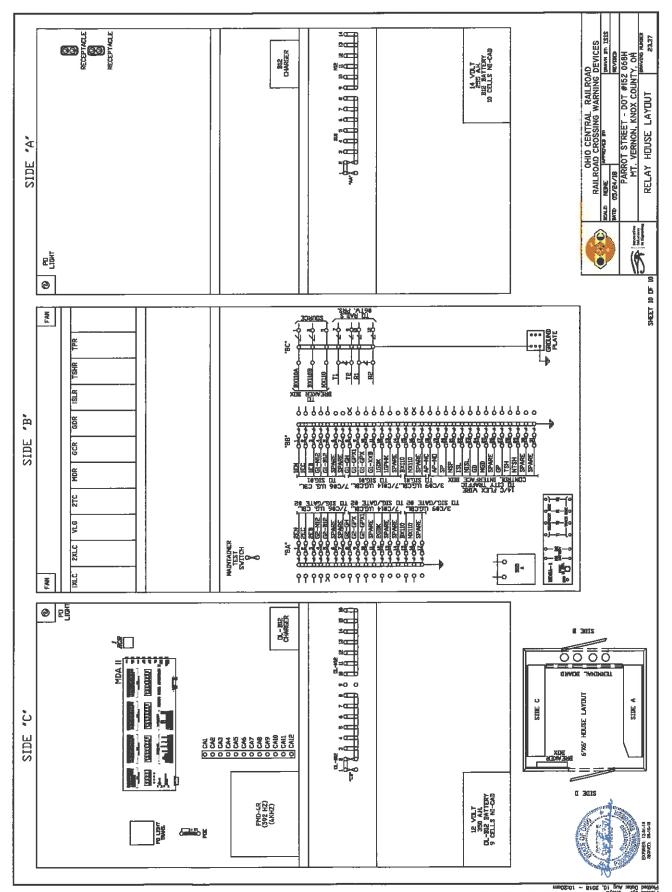












Force Account Estimate

Estimate to Complete

Railroad:	The Columbi	us & Ohio River Rail Ro	and Company (CLIOH)	Region:	MIDWE	CT
Agency:	THE COMMIN	ORDC	Dad Company (COOH)	State:	OH	
DOT #:		152068H		COUNTY:	Kno	
ROADWAY:		Parrot St		CITY:	Mt Verr	
	It Vernon, Kno		and Surface Upgrades at F			
		06570; 18CUOH13R				
AGENCY PROJECT N	IIIMDED.	PID 106570	ECTIMANTE CLU	DIECT TO DEVISION AFTER		00/07/40
AGENCT PROJECT N	IUWIDEK.	PID 100570	ESTIMATE SUE	BJECT TO REVISION AFTER		08/07/19
PRELIMINARY ENGINEERI	NG·					
Contracted & Administrative		Services			\$	-
Subtotal	0 0				\$	-
CONSTRUCTION & CLOSE	OUT:					
Contracted & Administrative	Engineering	Services			\$	18,400
Subtotal					\$	18,400
FLAGGING SERVICE:			0		Φ.	
Contracted or Railroad Flagr	nen Services		<u>0</u> Days		\$	-
Subtotal					\$	-
UTILITY WORK:						
Power Service					\$	_
Other					\$	_
Subtotal					\$	-
					*	
CONTRACT WORK:						
Outside Services					\$	-
Design & Labor & Material					\$	364,595
Subtotal					\$	364,595
RAILROAD TRACK:						
Labor & Material					\$	-
Subtotal					\$	-
RAILROAD SIGNAL & COM	MILINICATIO	M·				
Labor & Material	INIUNICATIO	<u> </u>			\$	_
Subtotal					\$	-
					-	
PROJECT SUBTOTAL:					\$	382,995
Public Project Admin:		3.00%			\$	11,490
Contingencies:		0.00%			\$	-
PROJECT TOTAL:			***********		\$	394,485
CURRENT AUTHORIZED B			**********	Signals	\$	184,900
TOTAL SUPPLEMENT REC	QUESTED:	**********	************	***** Surface	\$	209,585
DIVISION OF COST.						
DIVISION OF COST:						
Δ	gency <u>10</u>	00.00%			\$	209,585
	ailroad	<u>0.00%</u>			\$	-
					-	

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

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

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

DATE: 02/08/19 REVISED: 02/08/19 DATE: 02/11/19

Force Account Estimate

Estimate to Complete

Railroad: The	Columbus & Ohio River Rail Ro	and Company (CLIOH)	Region: M	IDWEST
Agency:	ORDC	ad Company (COOH)	State:	OH
DOT #:	152068H		COUNTY:	Knox
ROADWAY:	Parrot St			It Vernon
DESCRIPTION: Mt Veri	non, Knox County, OH – Signal	and Surface Upgrades at P		
Region	n; PID# 106570; 18CUOH13R			
AGENCY PROJECT NUMB	BER: PID 106570	ESTIMATE SUB	JECT TO REVISION AFTER:	08/07/19
PRELIMINARY ENGINEERING: Contracted & Administrative Engi	nearing Services			\$ -
Subtotal	neering services			\$ -
Subtotal			<u> </u>	-
CONSTRUCTION & CLOSEOUT	<u>.</u>			
Contracted & Administrative Engi	_			\$ 18,400
Subtotal				\$ 18,400
FLAGGING SERVICE:				•
Contracted or Railroad Flagmen S	Services	<u>0</u> Days		\$ -
Subtotal				\$ -
UTILITY WORK:				
Power Service				\$ -
Other				\$ -
Subtotal				\$ -
			_	
CONTRACT WORK:				
Outside Services				\$ -
Design & Labor & Material				\$ 364,595
Subtotal				\$ 364,595
RAILROAD TRACK:				
Labor & Material				\$ -
Subtotal				\$ -
			•	
RAILROAD SIGNAL & COMMUN	IICATION:			
Labor & Material				\$ -
Subtotal				\$ -
			_	
PROJECT SUBTOTAL:	2.009/			\$ 382,995
Public Project Admin:	3.00% 0.00%			\$ 11,490 \$ -
Contingencies:	0.00/0			- ب
PROJECT TOTAL:	*******	**********	***	\$ 394,485
CURRENT AUTHORIZED BUDG	ET:	*********	-	\$ 184,900
TOTAL SUPPLEMENT REQUES		*******		\$ 209,585
DIVISION OF COST:				
	400,000/			ć 200 F0F
Agency Railroa				\$ 209,585 \$ -
NdillOd	iu <u>0.0070</u>		_	<u>-</u>

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

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

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

DATE: 02/08/19 REVISED: 02/08/19 DATE: 02/11/19



OHIO DEPARTMENT OF TRANSPORTATION OHIO RAIL DEVELOPMENT COMMISSION HIGHWAY-RAIL GRADE CROSSING WARNING SYSTEM INTERCONNECTION RAILROAD CONFIGURATION AND TIMING REQUIREMENTS

Railroad:

CUOH

Date:

7/30/2018

DOT:

152068H

Crossing Name:

Parrott Street

Issued By:

Cathy Stout, ORDC

This crossing warning system is proposed to be interconnected with an adjacent highway traffic control signal. In some cases, the warning system may be interconnected with two highway traffic control signals, usually one on each side of the grade crossing. The #2 interconnection circuits are only required if indicated below.

The purpose of this document is to advise the railroad of the number of interconnection circuits required and the type and timing requirements of each circuit. The railroad should refer to the OHIO DOT HIGHWAY-RAIL GRADE CROSSING WARNING SYSTEM INTERCONNECTION STANDARD Part 5 for details concerning the requirements of the interface to be provided by the railroad.

TYPE OF INTERCONNECTION	INTERCONNECTION #1
ADVANCED	X
SIMULTANEOUS	
NOT REQUIRED	
ADVANCED PREEMPTION TIME PER AREMA 3.3.10	23 seconds
Interface Functions (804-4.2):	
Advanced Preemption Circuit with Supervision	Required
Simultaneous Preemption Circuit	Required
Island Occupied	Optional
Gate Down Circuit	Required
Gate Up Circuit	Optional
Traffic Signal Health (Agency will make this circuit available to railroad)	Optional



OHIO RAIL DEVELOPMENT COMMISSION

Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223 John R. Kasich, Governor • Mark Policinski, ORDC Chairman

April 24, 2018

Dan Birrell Genesee & Wyoming/COUH Manager C&S 47849 Papermill Road Coshocton, OH 43812

RE: Knox County, Parrott Street, DOT 152068H, PID# 106570

Dear Mr. Birrell:

A diagnostic review was held at the above grade crossing on October 12, 2017. The crossing have been recommended for an upgrade of the existing lights and gates to include advance preemption with the traffic signals at the intersection of Parrot and S. Main Streets, and a surface reconstruction.

The Genesee & Wyoming/COUH 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)





Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223 John R. Kasich, Governor • Mark Policinski, ORDC Chairman

January 23, 2018

Johnny Varner Genesee & Wyoming/CUOH 4349 Easton Way, Ste. 110 Columbus, OH 43219

Brian Ball City Engineer 40 Public Square Mt. Vernon, OH 43050

Re: Grade Crossing Warning Device and Surface Project

Knox County, Parrott Street DOT# 152068H, PID# 106570

Dear Messrs. Varner and Ball:

Following a meeting between Columbus and Ohio River Railroad (CUOH), City of Mt. Vernon (CITY) and Ohio Rail Development Commission (ORDC) representatives on February 9, 2017 and a diagnostic review on October 12, 2017, the referenced grade crossing has been identified for an upgrade to the railroad warning devices to include advance preemption with the traffic signals at the intersection of Parrot and S. Main Streets, and a surface reconstruction.

Work performed by CUOH will be completed in compliance with master Warning Device Agreement No. 0009-A dated May 28, 2001, entered into by the State of Ohio and CUOH and master Reconstruction Agreement number 11635 dated July 11, 2002, between the State of Ohio and CUOH except as defined by the terms of this letter agreement, and all applicable state and federal laws governing grade crossing safety programs.

Warning device preliminary engineering ("PE") and construction costs will be borne 100% by ORDC. Surface reconstruction and asphalt approach costs will be borne 90% by ORDC and 10% by CITY. Reimbursable costs will be limited by the ORDC based on approved estimates and bid tabulations, if applicable. These limits will be quantified by the ORDC in its construction authorizations to CUOH and CITY and may be amended by the ORDC based on revised estimates and bid tabulations.

The CITY has a roadway improvement project planned for the 2018 construction season and the timing of the surface reconstruction shall be coordinated between the CUOH and CITY. Construction pertaining to the asphalt approaches shall be performed by CITY. Cost estimates and bid documents must be approved by ORDC to be eligible for reimbursement. CITY shall invoice CUOH for the approach construction.

Costs associated with the detours will be borne 100% by CITY.



This Letter Agreement and the approved plans constitute the scope of the project. CUOH shall notify ORDC in writing of any changes in the scope of work which are not in the approved plans and estimates and secure approval in writing of same before the work is performed.

PE will not be commenced by CUOH prior to ORDC issuing a PE authorization. PE and project estimate will be submitted by CUOH to ORDC within ninety (90) days or other time specified by ORDC in the PE authorization. Construction will not be commenced by CUOH or CITY prior to ORDC issuing a construction authorization. Construction will be completed by CUOH within nine (9) months or other time specified in the time specified by ORDC in the construction authorization.

Please indicate your acceptance of the terms and conditions of this Letter Agreement by signing and returning one (1) copy to me at the address listed above and retain a copy for your files. This Agreement may be executed in one or more counterparts, each of which shall be deemed to be a duplicate original, but all of which taken together shall be deemed to constitute a single Agreement.

Please sign and return a copy of this letter agreement. Thank you for your assistance.

Executive Director	
GWRR/Columbus and Ohio River Railroad	City of Mount Vernon
Ву:	Ву:
Title:	Title SAFETY SERVICE DIRECTOR

Date 1/26/18

KNO Parrot St, CUOH, Mt. Vernon, PID 106570

Date:

This Letter Agreement and the approved plans constitute the scope of the project. CUOH shall notify ORDC in writing of any changes in the scope of work which are not in the approved plans and estimates and secure approval in writing of same before the work is performed.

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Please sign and return a copy of this letter agreement. Thank you for your assistance.

Respectfully,	
	,
MA K	
Matthew R. Dietrich	
Executive Director	

GWRR/Columbus and Ohio River Railroad	City of Mount Vernon
By:	Ву:
Title: Parcelle A	Title:
Date: 4//12/1/	Date:

KNO Parrot St, CUOH, Mt. Vernon, PID 106570

RECEIVED ORDC

1



Diagnostic Review Team Survey

(e.g. formula, accident, constituent, etc.)	nption/Road	Project	Date:	0/12/2017
Location Data				
Street or Road Name: Parrot Street				
Route/Road Number (i.e. Twp., Co., SR or US)			US DOT No.:	I52068H
County: KNO Township:		City: (In or Near)	City of Mt.	Vernon
Railroad Name: Columbus & Ohio River	Railroad Division: Louisville			Branch/Line Name:
Nearest RR Timetable Station: Mt. Vernon RR Milepost: 23.37				
On-Site Review Team				
Include: Name - Organization - Phone Number - 1. Cathy Stout ORD C 2. BRIAN BAIL CITTOR MONE 3. Jill Henry Puco 4. Dan Bureau cyal 5. hosert Heuser Gew 6 7 8 9.	14-644- TUENNA 740-393- LOJU-4/do 740 Z954 585-329-113	-0435 j	domen	nny Duco, chio, gov Down, con
Existing Traffic Control Devices Type of Warning Devices	Installe	d?		Ouantity/Comments
Existing Traffic Control Devices	Installe Yes	d? □ No		Quantity/Comments
Existing Traffic Control Devices Type of Warning Devices				Quantity/Comments I modim SE Approach t Sim scowal
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?)	Yes	□No		
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs	Yes Yes	□ No □ No	No pavemen	I mudin SE Approach & Sign scowal
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs	Yes Yes Yes	□ No □ No □ No	No pavemen	
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?)	Yes Yes Yes Yes	□ No □ No □ No □ No	No pavemen	I mudin SE Approach & Sign scowal
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks	Yes Yes Yes Yes Yes Yes Yes Yes	□ No □ No □ No □ No □ No	No pavemen	I mudin SE Approach & Sign scowal
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags	Yes Yes Yes Yes Yes Yes Yes Yes Yes	No No No No No No No No	No pavement	of marking SE Approach & Sign scowers
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal	Yes	□ No	No pavement	I mudin SE Approach & Sign scowal
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights	Yes	□ No	No pavenes SEA	apread Missing CTC on file cooler in your
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights	Yes	No	No pavement SE A	aproad Massing CTC on sile containing
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights	Yes	□ No	No pavena	aproad Missing CTC on file containing Length:
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates	Yes	No	No pavenes SE A Number: Pointed Number:	aproad Massing CTC on sile containing
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells	Yes	No	No pavena	aproad Missing CTC on file containing Length:
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells Sidewalk Gate Arms	Yes	No	No pavenes SE A Number: Pointed Number:	aproad Missing CTC on file containing Length:
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells	Yes Yes	No	No pavenes SE A Number: Pointed Number:	aproad Missing CTC on file containing Length:
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells Sidewalk Gate Arms 'No Turn' Signs	Yes	No	No pavenes SE A Number: Pointed Number:	aproad Missing CTC on file containing Length:

Safety Data (Obtain crash reports, if possible, prior to review)			
		ial Information (from database)	Revised
Number & dates of crashes	0 (3/90) & (5/89)		
in previous 5 years			
Hazard Ranking	33	70 Date Run: 8/30/2017	
Railroad Data			The state of the s
Railroad Characteris	tics	Initial Information (from database)	Revised
Total trains per day < I per day		2	
Day thru trains		2	
Night thru trains		Z	
Daytime switching moveme	nts		
Nighttime switching movem			
Total number of tracks		1	
Number of main tracks			
Number of other tracks		0	
Maximum train speed		10	
Typical train speed		10	
Amtrak			
If non-gated crossing, is clearing	g sight distan	ce adequate in all quadrants? (See Table 1)	Yes No MA-AFILS
If multiple tracks, can two train	s occupy cro	ssing at the same time? Yes	/
Can one train block the motor	ists' view of a	another train at crossing? Tyes (Explain be	elow) TYNo
Can one or more tracks be elir			
Are there other track(s) crossi	ng this same	roadway within 100 ft of this crossing?	Yes PNo
If yes, Crossing DOT #(if di	fferent)		
If yes, distance	(take mea	surement between track centerlines at close	st point along roadway)
Roadway Data			Action of the second
Local Highway Authority:		City of Mt. Vernon	
Roadway Characteris	tics	Initial Information (from database)	Revised
Average daily traffic		4568 (2011)	© K
Highway paved		X Yes No	Yes No
Roadway Surface: 🗹 Blacktop	Roadway Surface: Blacktop Gravel Concrete Other		
Roadway width: 12 ft.			
Number of highway lanes		2	
Urban or Rural		Urban	
Vehicle Speed: 35 MPH			
School Bus Operation: No X Yes 45 Amount			
Hazardous Materials Trucks:		45_ Amount	
Hazardous Materials Trucks: Shoulders: No] No		
] No	Yes Amount	
Shoulders: No Ye	□ No es lo	Yes Amount Yes No Shoulder	

TBO from East

Quadrant Curb and Gutter:	Quadrant N E 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	None		
Pedestrians: No V Yes			
Is sidewalk present?			
Is there a nearby intersection that could cause queuing over the c	rossing? No Yes		
If yes, Distance 7/- 50			
Is this intersection signalized? No			
Are the signals currently interconnected with the existing cross	ing warning devices? 🔲 No 🔀 Yes		
Is there a 'Do not Stop on Track' sign? No Yes	Sineltaneous		
Is a roadway improvement project (e.g. widening, turn lanes, near	by new or upgraded traffic signal, sidewalk) planned at or near this		
location in the foreseeable future? No Widen fadd town land	al 4 Days		
Improvement type to S. Main Lead Agency _	City of Mr. Vernor Timeline/completion -		
If yes, Improvement type + o S. Main Lead Agency	otential closure project: MNO TYPES		
Explain reasons:	Tes		
Type of Development			
Open Space Institutional Location of nearby	v schools:		
Industrial I Commercial 2 block	east		
Residential H 5	middle + JVS		
Utility Information	The second secon		
/			
Is commercial power available? No Yes			
Utility Provider (Company Name)AEP	Phone Number		
Nearest Available Power Source			
What other utilities are present? Gas Cable	☐ Telephone ☐ Fiber Optic Cable		
(add locations to sketch) Petroleum Water Other	Sanitary Sewer		
Is(are) there potential utility conflict(s) Ves No Unknown			
Comments: Ohead power north side			
	North Side		

Potential Red Flags / Project Challenges
Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known):
TS on Parrot + Main
Simeltueous interconnection
Crossing Consolidation or Closure:
NA
Real Estate or ROW: Parrot St LOW narrow but OK.
Culverts / Drainage / Ballast Conditions:
Winter dranage concern.
Roadway and/or Sidewalks:
su pole being removed
possible side walk in fature.
Circuitry (e.g. reaches out to other crossings, specific needs, etc.):
nome current overlap
will overlap S. Main when upgraded.
Environmental:
LITTI OTIMENTAL.
Other:
electric relocation (may be moving with roadway project.
Utility AEP willing to work w/city. Move or raise power

Diagnostic Team Recommendations	
	Quadrants Needed
Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	
✓ AFLS / Gates	All new mechanisms
AFLS / Gates / Cants	
☐ Bells / number	
Upgrade circuitry / type	CUT + Advance preenpt
Sidelights	Che i indiana preeni
Guardrail Needed	
✓ Install/Replace curb	presible cuch for motor a placement of
Bungalow placement & offset from rail & highway	possible curb for MUTCO a placement of
Other (define)	Jare
Comments:	
Install/upgrade traffic signal preemption	Advance greens.
No improvements needed	0 1 (11 (0.00)
Other (define) Surface - raise track	L approx 6" (TBD) ub preferred - need 3 days with road closed city prefer 5. when schoolison
Surface type concerted	ob preferred - held 3 days with a solvention
Acknowledgement of Recommendations (each entity represented	1 at the diagnostic must have at least one signature
acknowledgement):	rat the diagnostic must have at least one signature
	•
All KET	<u> </u>
DRB BWB	
DRG DWD	
Field Dimensions	
Sidewalk Show North Direction	tintersect design final spring (mayIs) then finalize APT time before RR
Parkway 6	authorized for PE.
Roadway ()	possible situsor gade on NEquad
Roadway	and surface on (1) side for
3 Parkway	pedestrians.
Sidewalk	
<u> </u>	

Field Sketch	South Marrow	- Willes
Parrot	A. After	Tr. Posse
Tay or	A Los Athredon A Street ag	De Traffe light Fordulas
Crossing Angle 0-29° 30-59°	60-90° Measured in Sw Qua	

* :

Table I

Clearing Sight Distances

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

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

Notes:

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

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

Clearing Sight Distance is to be measured in each vehicle travel direction at non-gated crossings 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 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.

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

6/28/2019 1:25:34 PM

in

Case No(s). 19-1390-RR-FED

Summary: Application In the Matter of a Request for the Upgrade of the Active Warning Devices, Surface Reconstruction, and the Installation of Traffic Preemption at the Columbus & Ohio River Railroad Crossing, Parrot Street DOT#152-068H in Knox County, Ohio. electronically filed by Mrs. Jill A Henry on behalf of PUCO/Rail Division