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**Public Utilities Commission of Ohio** 

2016 MAR - 1 PM 3: 58

ruco

# Memo

To:

**Docketing Division** 

Front

George Martin, Grade Crossing Planner, Rail Division

Re:

In the matter of the authorization of the Ohio Central Railroad and Norfolk Southern Railway to

A.

install active grade crossing warning devices in Muskingum and Seneca Counties

Date: March 1, 2016

The Ohio Rail Development Commission (ORDC) has authorized funding for the Ohio Central Railroad (OHCR) and Norfolk Southern Railway (NS) to install mast-mounted flashing lights and roadway gates as follows:

OHCR, Muskingum County, City of Zanesville, Lee St, DOT# 474109A, approved cost \$178,017.00.

NS, Seneca County, near Attica, CR 8, DOT# 481599L, approved cost \$448,415.00.

These crossings were surveyed on November 4, 2014, and October 15, 2014, respectively, and were found to warrant the upgrades.

The projects will be paid for with federal funds, and are actual cost. As the plans and estimates have been approved in the amounts above, staff requests a Finding & Order with completion due in 9 months. Construction may commence at once. Staff requests that the following language be incorporated in the Entry:

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 railroad will be responsible 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.

A suggested case coding and heading would be:

PUCO Case No. 16- 503 -RR-FED In the matter of the authorization of the Ohio Central Railroad and Norfolk Southern Railway to install active grade crossing warning devices in Muskingum and Seneca Counties

C: Legal Department

Please serve the following parties of record.

This is to certify that the images appearing are an accurate and complete reproduction of a case file document delivered in the regular course of business.

Technician Date Processed MAR 0 1 2016

Ms Cathy Stout

Ohio Rail Development Commission

1980 W Broad St, Mailstop # 3140

Columbus, Oh 43223

Mr John Hilborn

Vice President Engineering

GWRR-Ohio Valley Region Railroads

4349 Easton Way, Ste. 110

Columbus, Oh 43219

Mr Stephen Klinger

Norfolk Southern Railway

1200 Peachtree St, Box 123

Atlanta, Ga 30309

Mr Jay Bennett

Public Service Director

City Hall

2<sup>nd</sup> Floor, Room 230

Zanesville, Oh 43701

Mr Mark Zimmerman, PE, PS

Seneca County Enginner

3300 South TR 151

Tiffin, Oh 44883

**AEP** 

# OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO: Randall Schumacher, Supervisor, Rail Division, PUCO

FROM: Cathy Stout, Manager, Safety Section, ORDC

BY: James Tucker, Project Manager, ORDC

SUBJECT: Muskingum County, Lee Street

DOT#474109A, PID#99464

DATE: February 22, 2016

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on November 6, 2014. The Ohio Rail Development Commission (ORDC) attended the review. The Diagnostic Team recommended the improvement of warning devices to flashing lights and roadway gates. Copies of the diagnostic review form and the plan and estimate are attached.

PE has already been provided by the railroad. ORDC approves the site plans and estimates as provided. Please issue a construction-only order for the project 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: George Martin, PUCO

ORDC Project Manager (file)

# OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO: Randall Schumacher, Supervisor, Rail Division, PUCO

FROM: Cathy Stout, Manager, Safety Section, ORDC

BY: Don Damron, Project Manager, ORDC

SUBJECT: Seneca County, CR 8 / Norfolk Southern

DOT# 481599L PID# 99303

**DATE:** February 25, 2016

The Public Utilities Commission of Ohio (PUCO) established a Diagnostic Review Team Survey at the subject highway/railroad crossing location on 10/15/14. The Ohio Rail Development Commission (ORDC) attended the Diagnostic Survey. The Diagnostic Review Team recommended the improvement of warning devices to flashing lights and roadway gates. Copies of the Diagnostic Review Team Survey form and the railroad plan and estimate are attached.

The PE has already been provided by the railroad. ORDC approves the site plans and estimates as provided. Please issue a construction-only order for the project 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.

#### Attachments:

Diagnostic Review Team Survey dated: 10/15/2014

Plan & Estimate dated: 4/6/2015

c: George Martin, PUCO ORDC Project Manager (file)

# OHIO RAIL DEVELOPMENT COMMISSION



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

February 22, 2016

Mr. John Hilborn Vice President-Engineering Ohio Valley Region Railroads Genesee & Wyoming/OHCR 4349 Easton Way. Ste.110 Columbus, Oh 43219

RE: Muskingum County, Lee Street, DOT# 474109A, PID# 99465.

Dear Mr. Hilborn:

The bid process for the referenced project has been reviewed and is acceptable. OHCR may proceed with the construction of the proposed grade crossing warning system in accordance with the abbreviated plan. This authorization is made with the stipulation and understanding that the approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit. Reimbursement of eligible actual cost is limited to \$178,017.00. Additional costs must be approved in writing by the Ohio Rail Development Commission (ORDC) prior to being incurred. Emergency verbal authorizations by ORDC may be permitted but must be confirmed in writing within ten (10) business days of the verbal approval.

This authorization is contingent upon OHCR accepting the following instructions:

- 1. OHCR's project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to James Tucker, ORDC, email james.tucker@dot.ohio.gov, and to the Public Utilities Commission of Ohio, email <a href="Meorge.martin@puc.state.oh.us">George.martin@puc.state.oh.us</a>. OHCR'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. OHCR 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 OHCR.
- 3. OHCR's project foremen will notify James Tucker at 614-398-6897 (telephone) or james.tucker@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.



www.rail.ohio.gov phone: 614.644.0306

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- 5. OHCR will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed Purchase Order to reference when billing.
- 6. OHCR 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,

James Tucker Project Manager

Attachment: ODOT P.O.

C: Randall Schumacher, Supervisor, Rail Division, PUCO George Martin, Grade Crossing Planner, PUCO ORDC (file)

#### Martin, George

From: Sent: Tom Zeinz <tzeinz1@sbcglobal.net> Monday, January 25, 2016 5:10 PM

To:

Stout, Catherine; Tucker, Jim

Cc:

Arduiní, Susan

Subject:

FW: PID 95368 - OHCR - Zanesville, OH (Muskingum County) Lee Street (DOT # 474109A / MP 144.155 RR# 15OHCR01R) - Vendor Bid Analysis & Construction

Authorization Request

**Attachments:** 

LTR\_160125\_PE Package\_Lee St\_Patrick.pdf; FAE\_160106\_Lee\_Patrick.pdf; DWG\_150309 \_Lee Street PE.pdf; DWG\_151124\_Lee Street Plans\_CE.pdf; EST\_MaterialList\_Lee St.pdf

Cathy & Jim,

No particular problems with this, but a few comments/observations.

The plan shows the signal masts being located 8'-3" from edge of road, however, there are notations that say "field verify". The Diagnostic Report says there are currently "non-functional" curbs (less than 4" in curb height), but also recommends curbs be installed/replaced. If, in fact, functional curbs are installed/replaced, these dimensions may be reduced to 4'-3" from face of curb as/where appropriate.

Part of what "muddies the water" at this location is the private driveway. Was any consideration given to contacting the landowner to see if this portion of the driveway could possibly be eliminated? There is another entrance for this same driveway along Lee Street approximately 200 (+/-) feet to the SE. Unless there is some compelling reason for keeping the driveway in this configuration, eliminating this leg of it would decidedly shorten the crossing and simplify the signal arrangement. Consider: Is it the Diagnostic Review Team's job to simply "tailor" some traffic control device arrangement to "fit" whatever situation they may find? Isn't it also to generate/promote ideas on how to uncomplicated the situation so that the resultant traffic control device installation is simpler, safer and possibly less costly?

Do as you will, and if you choose to run with the current proposal, I'll sign & seal it when I'm next in. I'm just saying I think we could make it better.

Tom Zeinz

Highway-Railroad Safety Consulting, LLC

From: Catherine.Stout@dot.ohio.gov [mailto:Catherine.Stout@dot.ohio.gov]

Sent: Monday, January 25, 2016 1:55 PM

To: Tom Zeinz <tzeinz1@sbcglobal.net> <tzeinz1@sbcglobal.net>

Cc: Susan.Arduini@dot.ohio.gov

Subject: FW: PID 95368 - OHCR - Zanesville, OH (Muskingum County) Lee Street (DOT # 474109A / MP 144.155 RR#

150HCR01R) - Vendor Bid Analysis & Construction Authorization Request

Tom,

Please review the attached. I apologize if this is a duplicate. Jim got the plan in a separate email and might have already forwarded it to you.

Thanks,

Cathy Stout

Manager, Safety Programs, ORDC 1980 W. Broad St., Mail Stop 3140, Columbus, OH 43223 614-644-0313

From: Bolzenius, Joseph [mailto:jbolzenius@patrickco.com]

Sent: Monday, January 25, 2016 1:50 PM

To: Stout, Catherine < Catherine. Stout@dot.ohio.gov>

Cc: Tucker, Jim <<u>James.Tucker@dot.ohio.gov</u>>; John Hilborn <<u>John.Hilborn@gwrr.com</u>>; \_p\_GW\_OHIO\_VALLEY <<u>GW-</u>

OH@patrickco.com>

Subject: RE: PID 95368 - OHCR - Zanesville, OH (Muskingum County) Lee Street (DOT # 474109A / MP 144.155 RR#

15OHCR01R) - Vendor Bid Analysis & Construction Authorization Request

Cathy,

Please see the attached P&E submittal for your review and approval. Please contact me if you have any questions.

Joseph S. Bolzenius, PE, PS, LEED AP Ohio Director of Transportation PATRICK ENGINEERING

3650 Olentangy River Rd, Suite 110

Columbus, Ohio 43214

Direct: 614.498.0339 | Mobile: 614.354.4933 | jbolzenius@patrickco.com | www.patrickco.com

From: Catherine.Stout@dot.ohio.gov [mailto:Catherine.Stout@dot.ohio.gov]

Sent: Monday, January 25, 2016 11:30 AM

To: Bolzenius, Joseph

Cc: <u>James.Tucker@dot.ohio.gov</u>; John Hilborn; \_p\_GW\_OHIO\_VALLEY; Wodzinski, Marilyn

Subject: RE: PID 95368 - OHCR - Zanesville, OH (Muskingum County) Lee Street (DOT # 474109A / MP 144.155 RR#

15OHCR01R) - Vendor Bid Analysis & Construction Authorization Request

Joe,

We did not get the plan and estimate prior to your bidding out. I need the plan and estimate for review before we can authorize any further activity.

Thanks.

Cathy Stout Manager, Safety Programs, ORDC 1980 W. Broad St., Mail Stop 3140, Columbus, OH 43223 614-644-0313

From: Wodzinski, Marilyn [mailto:mwodzinski@patrickco.com]

Sent: Wednesday, January 06, 2016 4:35 PM

To: Stout, Catherine < Catherine.Stout@dot.ohio.gov>

 $\textbf{Cc:} \ \, \textbf{Tucker, Jim} < \underline{\textbf{James.Tucker@dot.ohio.gov}}; \ \, \textbf{John Hilborn} < \underline{\textbf{John.Hilborn@gwrr.com}}; \ \, \underline{\textbf{p}} \ \, \underline{\textbf{GW}} - \underline{\textbf{OHIO}} - \underline{\textbf{VALLEY}} < \underline{\textbf{GW}} - \underline{\textbf$ 

OH@patrickco.com>

Subject: PID 95368 - OHCR - Zanesville, OH (Muskingum County) Lee Street (DOT # 474109A / MP 144.155 RR# 150HCR01R) - Vendor Bid Analysis & Construction Authorization Request

Hi Cathy,

We received bids from four different contractors for the Lee Street Project and it appears that **TCR Rail Systems** is the lowest responsive responsible bidder. The Railroad has approved the selection of TCR Rail Systems for the work, and attached is the updated Force Account Estimate.

Upon your review and approval, please provide construction authorization so that we may proceed with the work.

Feel free to contact me or Joe Bolzenius if you have any questions.

Thank you,

#### Marilyn Wodzinski

Patrick Engineering Inc. (630) 795-7262

From: Wodzinski, Marilyn

Sent: Tuesday, December 22, 2015 10:44 AM

To: 'John Hilborn'; Daniel Birrell (<a href="mailto:dbirrell@gwrr.com">dbirrell@gwrr.com</a>); <a href="mailto:bkeys@gwrr.com">bkeys@gwrr.com</a>)

Cc: \_p\_GW\_OHIO\_VALLEY

Subject: OHCR - Zanesville, OH (Muskingum County) Lee Street (DOT # 474109A / MP 144.155 RR# 15OHCR01R) -

Vendor Bid Analysis

Good Morning,

Attached are the bid results and analysis for Lee Street. We received a total of four bids. Progress Rail is expecting 3 more days of construction than TCR, which equates to another \$3,000 in flagging. With this in mind, TCR is the apparent low bidder, and satisfied bid requirements in their submitted proposal.

Please review and advise if you concur with awarding the project to TCR.

Thank you,

#### Marilyn Wodzinski, Program Coordinator

Patrick Engineering Inc.
4970 Varsity Dr., Lisle, Illinois 60532
P (630) 795-7262 | M (708) 466-7741 | F (630) 724-9279
mwodzinski@patrickco.com | www.patrickco.com

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January 25, 2016

Catherine M. Stout Manager, Safety Programs Ohio Rail Development Commission 1980 W. Broad St., Mail Stop 3140 Columbus, OH 43223

Subject:

Plans and Estimate Package – Lee St, Zanesville, Muskingum County, Ohio

Upgrade to Lights and Gates

Reference:

Agency ID: L

Lee St (PID# 95368)

AAR/DOT #: RR Reimb.#:

474109A 15OHCR01R

CUOH #:

Milepost: MP 144.15

Pittsburgh Subdivision (Zanesville District)

Dear Ms. Stout:

Ohio Central Railroad, Inc. (OHCR) is submitting this P&E Package for safety upgrades to the at-grade crossing in Zanesville, Ohio.

We are providing the attached Estimate, which includes the following items; Crossing Warning System estimate (including cost of labor, materials and equipment), Costs for Engineering (includes Preliminary Engineering, Construction Engineering, and Construction Engineering Inspection), Flagging Services and Power service costs. We have also attached the PE Plans and Circuitry Plans.

Please contact me with any questions.

Sincerely.

John Hilborn, PE

Vice President-Engineering

Enclosures:

Force Account Estimate, PE Plans and Circuitry Plans

cc:

Joe Bolzenius (Patrick)

James Tucker & Susan Arduini (ORDC)





#### Force Account Estimate - Lee Street

## OHIO CENTRAL RAILROAD, INC. (OHCR)

Zanesville, OH (Muskingum County)

DOT#: 474109A

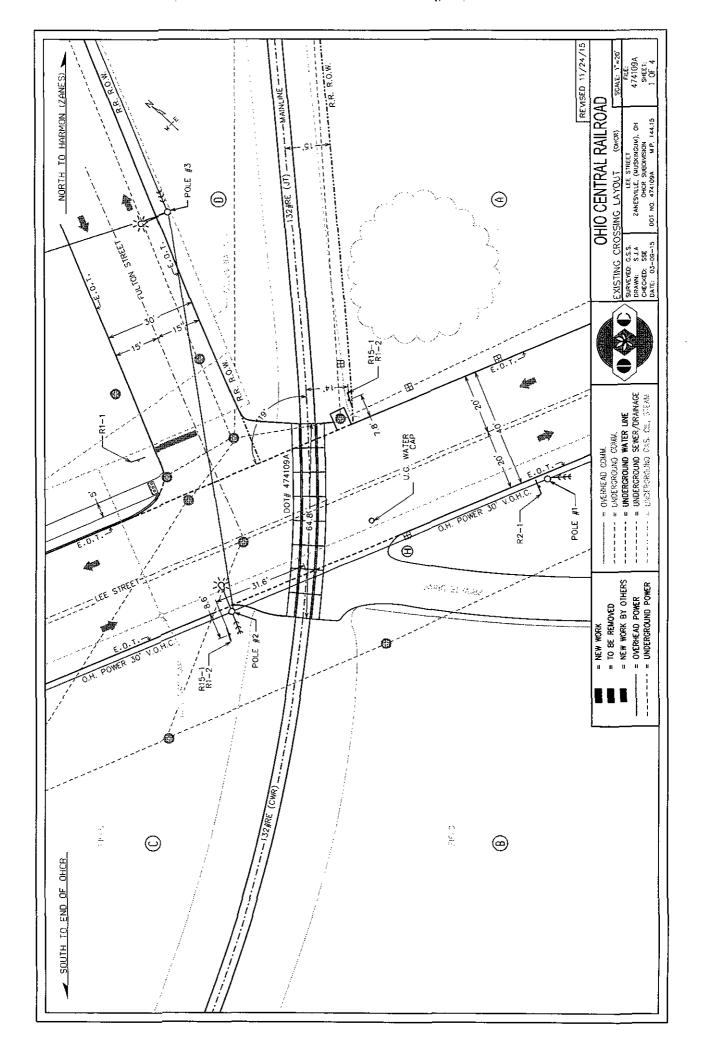
Railroad #

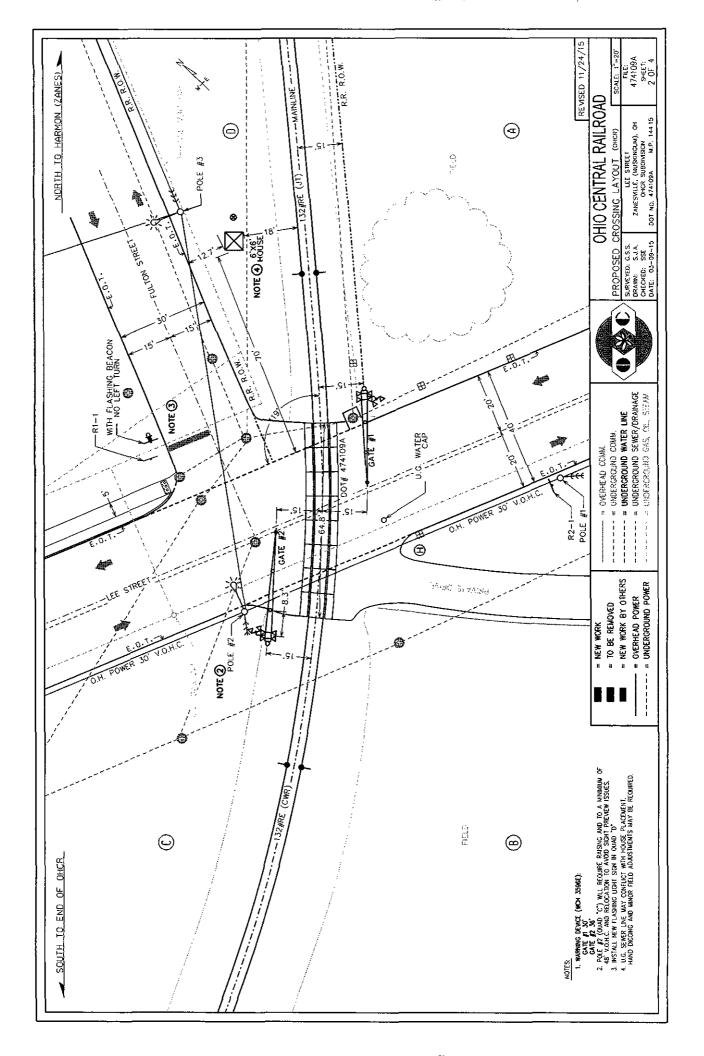
RR MP: 144.15

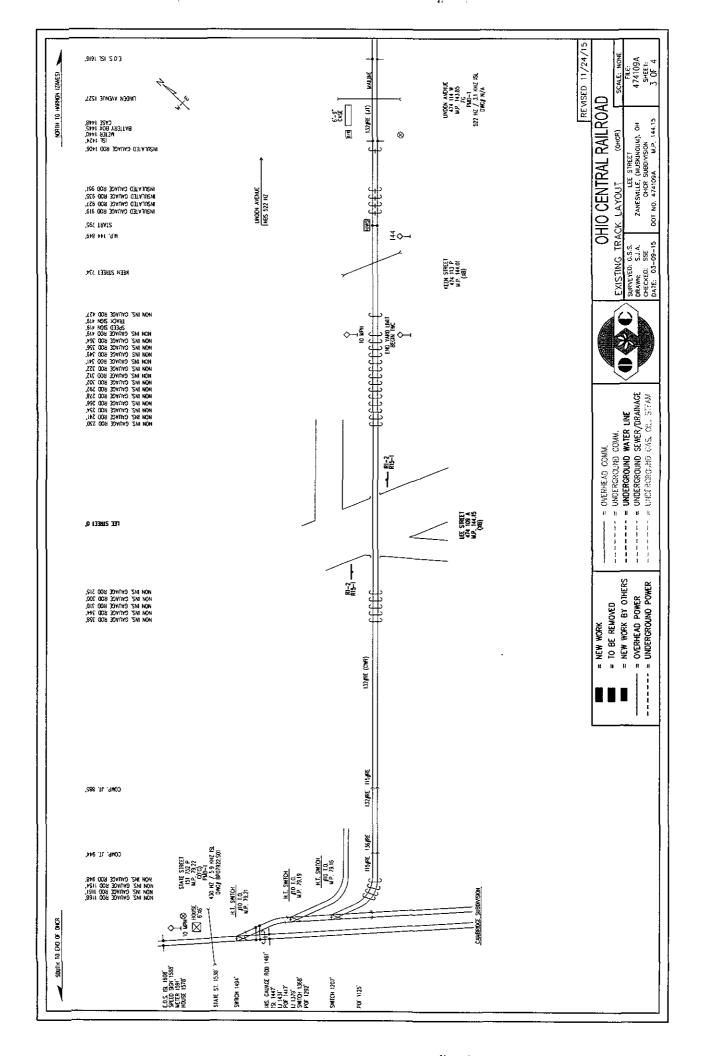
#### Western Subdivision **SUMMARY**

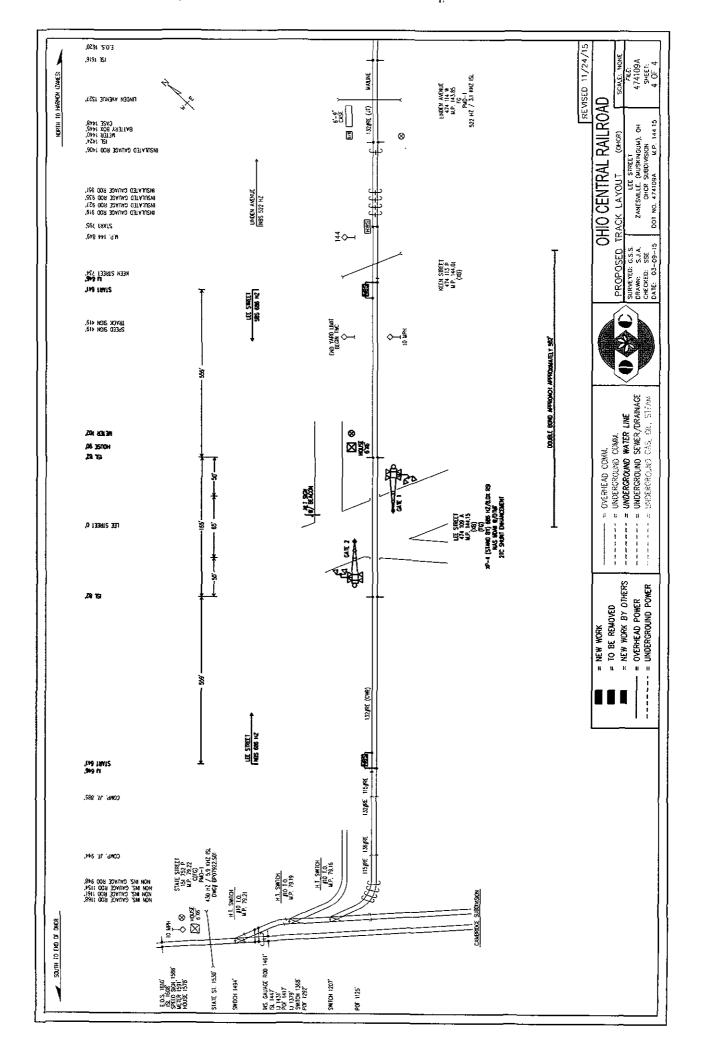
CROSSING WARNING SYSTEM	\$	130,317.00	
(Includes all labor, materials, shop wiring, and installation)			
CROSSING SURFACE/RESURFACE	\$	-	
(Includes all labor, materials, shop wiring, and installation)			
TRACK GRADE AND REHABILITATION	\$	-	
(Includes all labor, materials, and installation)			
RAILROAD ENGINEERING	\$	-	
(Includes RAILROAD Labor for Reviewing Engineering Authorizations, Field Inspections and Administrat	tive Labor)		
PRELIMINARY ENGINEERING	\$	13,200.00	
(Includes CONTRACT Labor for all Engineering, Agency Coordination, and Project Management)			
CONSTRUCTION ENGINEERING	\$	18,000.00	
(Includes CONTRACT Labor for all Engineering, Agency Coordination, and Project Management)			
CONSTRUCTION ENGINEERING INSPECTION	\$	7,500.00	
(Estimated Construction Engineering Inspection cost)			
UTILITY CROSSING	\$	-	
(O new utility crossings @ \$4000 per crossing, includes application, engineering review, and right of en	itry)		
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)	<del></del> '	·	
OTHER (Description Required)	s	-	
	····································		•
TOTAL ESTIMATE COST	\$	178,017.00	(USD)
	Approved By:		
Date: 1/6/2016	Date:		
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.



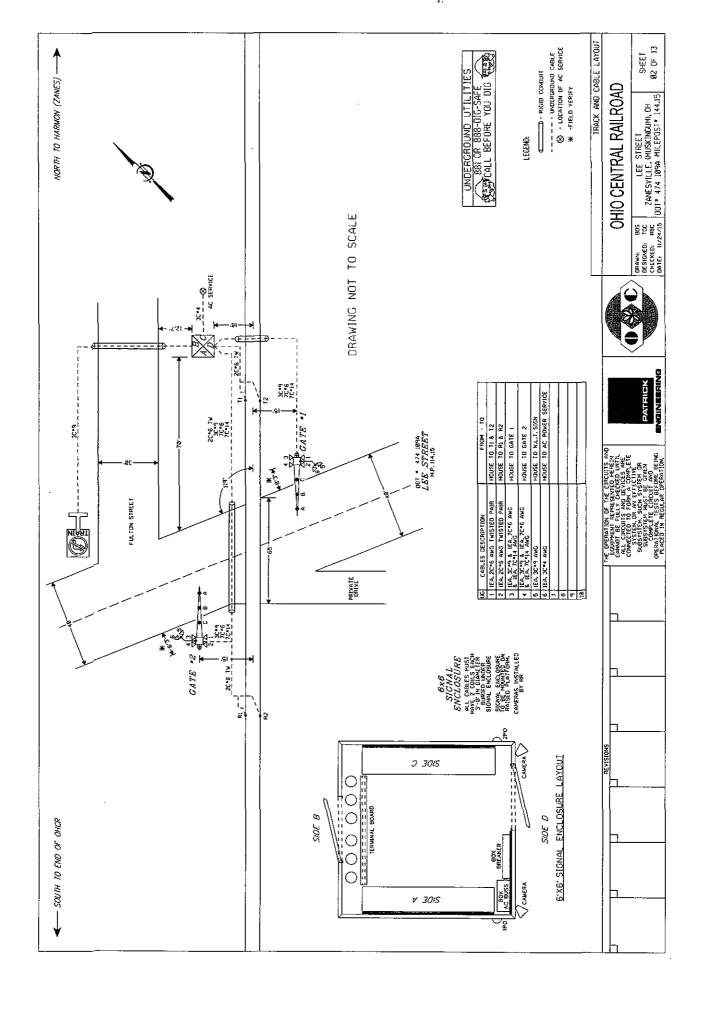


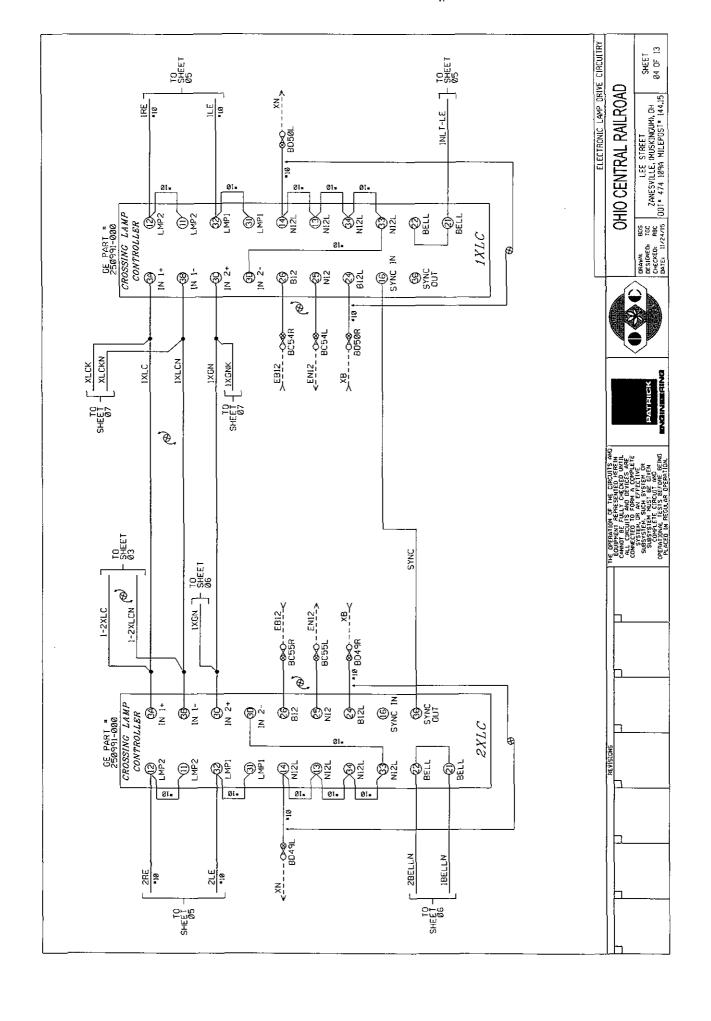


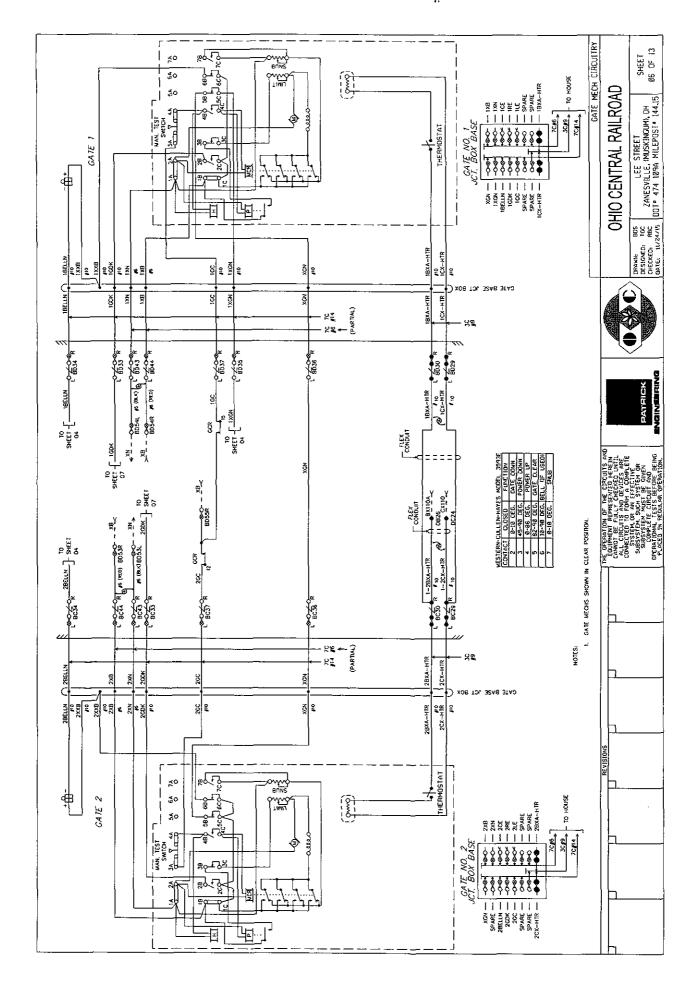


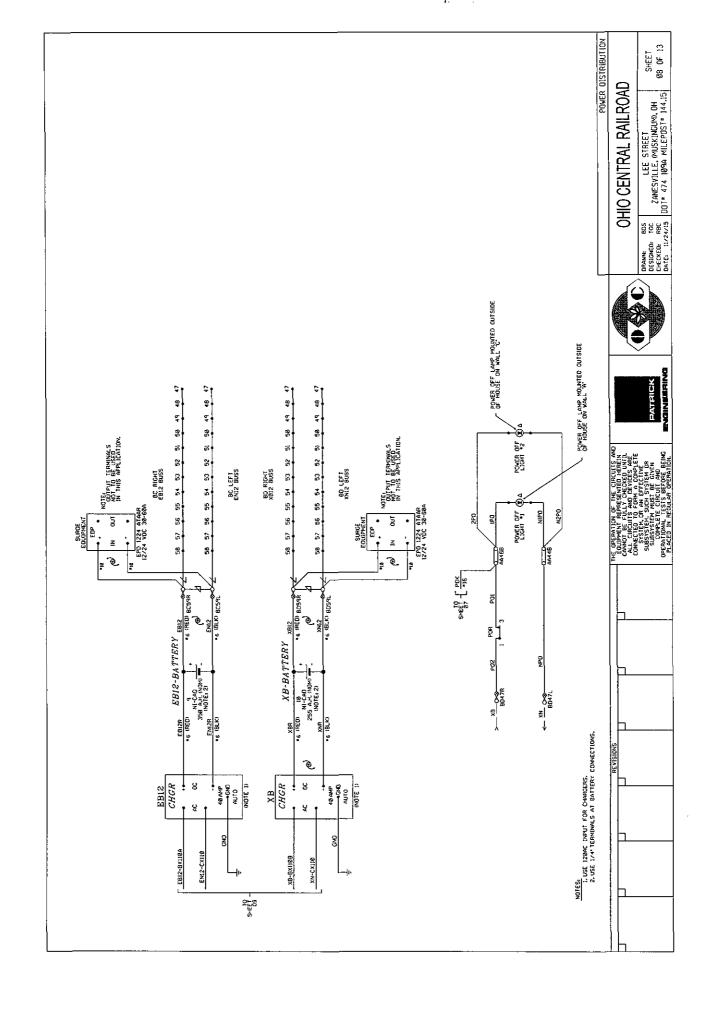
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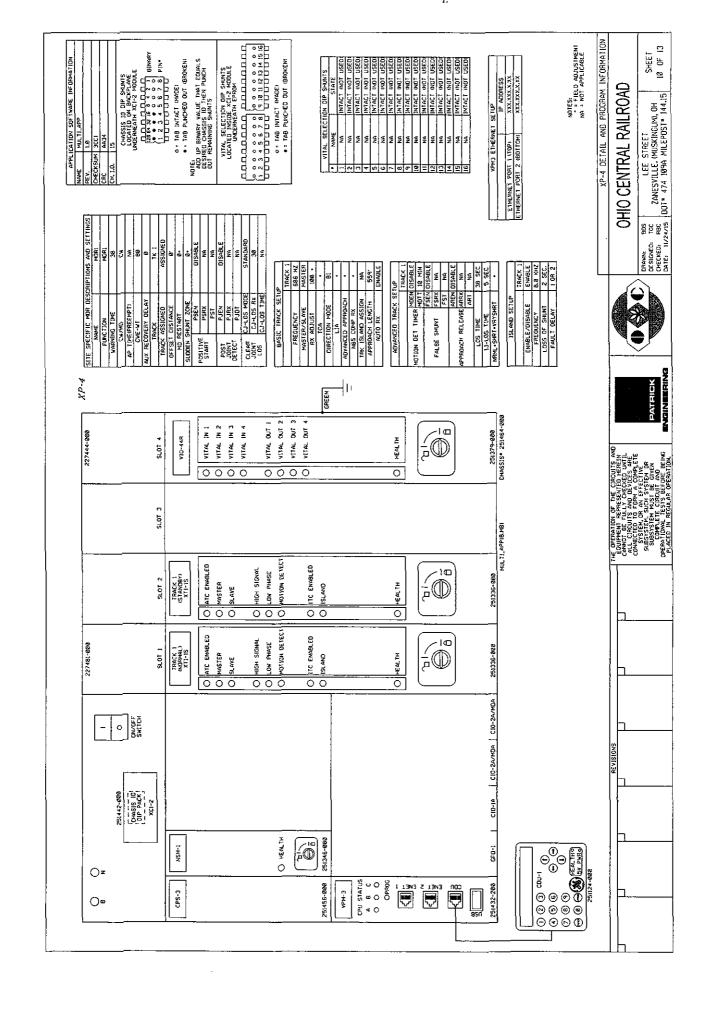
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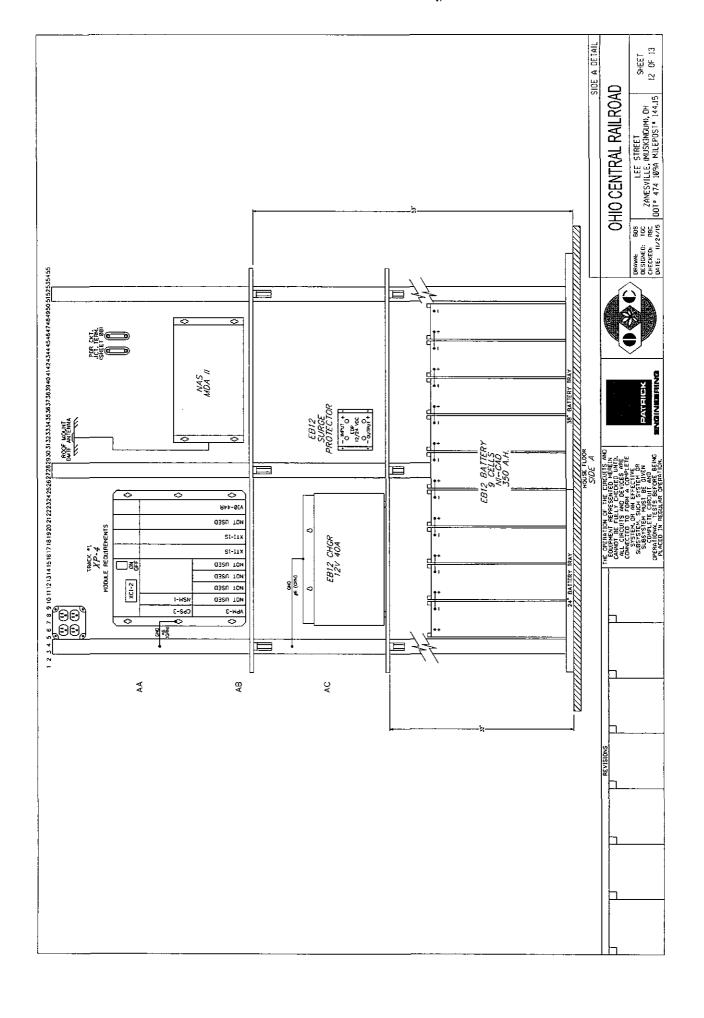












### Ohio Central Railroad, Inc. DOT# 474109A, Lee Street

#### FIELD MATERIAL

#### HOUSE/CASE MATERIAL

DESCRIPTION	VENDOR P/N	ÜNIT	QTY
PLATFORM FOR 3'X5" SIGNAL CASE	0227081	EΑ	
FOUNDATION FOR STEEL RELAY CASE	0227080	EΑ	
ROD, GROUND 5/8IN BY 8FT	635880	EΑ	4
COUPLING, BRONZE FOR GROUND ROD	CR58	ĘΑ	4
CONNECTOR, ONE SHOT 2-WAY TYPE GT	SBGT1161G	EA	2
WIRE, GROUND #6 SOFT DRAWN BARE COPPER	6BCSOLX315	FT	50
BOX, GROUND ROD CONNECTION ENCLOSURE	PE-6HDHK-BLA	EA	3

### SIGNAL/HOUSE PLATFORMS & FOUNDATIONS

DESCRIPTION	VENDOR P/N	UNIT	QTY
FOUNDATION, HELICAL 7'X10" FOR 11-11/16" BOLT SPACING	TBD	EA	
EXTENSION, HELICAL FOUNDATION 10"X3" USE W/XING GATE & SIGNAL MAST.	TBD	EA	
FOUNDATION, GROUND ACCESS FOR GATE MAST	TBD	EA	
FOUNDATION, GROUND ACCESS FOR CANTILEVER FOUNDATION	TBD	EA	
PLATFORM, HOUSE FOR ALL HOUSES UP TO 8X8	TBD	EA	
PLATFORM, 8' FLOOD FOR ALL HOUSES UP TO 8X8 COMPLETE WITH HELICAL FOUNDATION	TBD	EA	

#### CABLE

DESCRIPTION	VENDOR P/N	UNIT	
CABLE, UG POWER 3 COND NO 6 AWG	112-10-3854	FT	
CABLE, UG POWER 3 COND NO 4 AWG	112-10-3864	FT	75
CABLE, UG POWER 3 COND NO 2 AWG	112-10-3874	FT	
CABLE, UG POWER 7 COND NO 6 AWG	206-11-6247	FT	350
CABLE, UG 3 COND NO 9 AWG	206-11-6923	FT	550
CABLE, UG 7 COND NO 9 AWG	206-11-6927	FT	
CABLE, UG 10 COND NO 9 AWG	206-11-6930	FT	
CABLE, UG 5 COND NO 14 AWG	206-11-6885	FT	
CABLE, UG 7 COND NO 14 AWG	206-11-6887	FT	350
CABLE, UG 12 COND NO 14 AWG	206-11-6892	ET.	
CABLE, COMPOSITE 19 CONDUCTOR	206-11-6283	FT	
FIELD CABLE TAG KIT	TBD	EA	1

#### TRACK WIRE/CONNECTION MATERIAL

DESCRIPTION	VENDOR P/N	UNIT	QTY
WIRE UG TRACK TWISTED PAIR NO. 6 AWG	150-12-3933	FT	300
KIT BOND, CADWELD PLUS WEB OF RAIL BOND	SBTBBU4ACWPW2	EA	60
BOND STRAND 3/16" DIA 7 STRANDS OF 19	SBS8TINS664	FT	350
BOND, JOINT 3/16" X 6-1/2"	1072-01	EA	
KIT, BOOTLEG	BLTS-8-808	EA	
CONNECTOR, TRACK "CHICKEN HEAD" WITH 3f16" BOND STRAND	SBPAC3A	EA	10
RING 10 FOR SYLE "C" TRACK CIRCUIT	800-004080-000	EA	
SHUNT, NBS-1	250250-XXXX	EA	
SHUNT, WBS	XXXX	EA	. 2
ASSY, TJC-1A FINAL XXXHZ	250491~XXXX	EA	
SHUNT, MULTIFREQUENCY FSS-XX	250849-00X	EA	
DUMMY LOAD, TRACK LENGTH XXX'	227032-0XX	EA	
PLATE, SHUNT FOR TIE-MOUNTING TIC'S	74-91004	EA	
SCREW, LAG 1/2" X 4-1/2" FOR MOUNTING SHUNT PLATES	508754-1/2	EA	
8' 6" HARDWOOD TIMBER TIE	TBD	ĘΑ	
ENCLOSURE SHUNT	IRS_SECS	FΔ	

#### **CROSSING MATERIAL - CANTILEVER ASSEMBLIES**

DESCRIPTION	VENDOR P/N	UNIT	QTY
CANTILEVER 16' WITH 1-WAY MAIN MAIN MAST, 2-WAY TIP AND	AS QUOTED	EA	
HARDWARE	, 15 do 0 1 2 5		
CANTILEVER 35' WITH 2-WAY MAIN MAST, 1WAY SIDE STREET, 2EA	AS QUOTED	EA	ļ.
1-WAY LANE, 2-WAY TIP AND HARDWARE			
FOUNDATION, CONCRETE 5'-10" FOR CANT ARMS UP TO 30'	DP4-B	EA	Ļ
***	1		
FOUNDATION, CONCRETE 5'-6" FOR CANT ARMS 31'-40'	DP8-B	EA	

#### **CROSSING MATERIAL - LIGHTS AND SIGNS**

DESCRIPTION	VENDOR P/N	UNIT	QTY
SIGN, MULTIPLE TRACKS "2 TRACKS" COMPLETE WITH HARDWARE AND	3368-770-C-2-811-5	EA	
10-1/2" EXTENSION ARMS	3300 110 0 2 011 3		
SIGN, MULTIPLE TRACKS "3 TRACKS" COMPLETE WITH HARDWARE AND	3368~770~C	EA	
10-1/2" EXTENSION ARMS	3308 770 8	100	
KIT, LED UPGRADE FOR GATE ARMS 16'-42'	9298-1120	EA	
FLX-12 Lamp 2-Way 5" Mast	042003-000896	EA	2
Jury Mast - Gate Arm & Conversion Bracket	TBD	EA	2
SIGNAL, 1-WAY CROSSARM WITH 12" LED SIGH ASSY	TBD	£A	0
SIGNAL, 2-WAY CROSSARM WITH 12" LED SIGH ASSY	975-804-5-1-MF	EA	2
NO RIGHT TURN SIGN & MOUNTING, LED	TBD	EA.	
NO LEFT TURN SIGN & MOUNTING, LED, 42" H x 30" W x 5" D, 12-24VDC	TBD	EA	1
			į
SIGN, NO TURN MAST MOUNT WITH HARDWARE	TBD	. EA	1

### Ohio Central Railroad, Inc. DOT# 474109A, Lee Street

#### SHOP MATERIAL - (6x6) HOUSES/CASES

DESCRIPTION	VENDOR	VENDOR	UNIT QTY
HOUSE 6X6 WITH PTC UPGRADE COMPLETE WITH	PTMW	TBD	EA 1
FOUNDATIONS	( ()4)44	W/VENDOR	3
CASE, 3'X5" ALUM RELAY W/ FARADAY CLOSET	PTMW	TBD	EA

#### POWER

DESCRIPTION	VENDOR	VENDOR	UNIT QTY
PROTECTOR, SURGE 120/240V W/IND	GETS	010132-005	EA 1
PROTECTOR, SURGE #1224 ATAAR 12-24 vdc 30-60Amp	ERICO	tbd	EA 2
KIT, 240V EMERGENCY GENERATOR PLUG (MOUNTED ON OUTSIDE OF HOUSE)	TDH SOLUTIONS	830-0023	EA 1
PLUG, TURNLOK 30A L14–30P	NEWARK	50H2874	EA 1
PROTECTOR, PANEL EPD120/240	ERICO	EPD120240T	EA 1
LINK TEST INSULATED OFFSET 2-3/8"	TDH SOLUTIONS	800-0114	EA 176
REACTOR, TRACK BATTERY MODEL 5025A	GETS	250141-001	EA
CHARGER, BATTERY 20AMP	NRS	22290-10	EA
CHARGER, BATTERY 40AMP	NRS	22400-10	EA 2
CHARGER, BATTERY 30AMP	NRS	27920-10	EA
BOX, HOFFMAN 10"X8"X4" NEMA 4X	HOFFMAN	A1008CHNFS	EA 1
HEATER, WALL 240/208V 60HZ 2000/1500W	CADET	C202	EA 1
TRANSFORMER, 750W	SIEMENS	010520-50X	EA
ENHANCER, DC SHUNT t-Rx7100	GENESIS	8K-80049-0	EA
CONVERTER, 2TC DC-DC TRACK USE W/ISLAND AND OS TRACK CIRCUITS	GETS	800-003510 -000	EA 1

#### RELAYS

DESCRIPTION	VENDOR	VENDOR	UNIT QTY
EXTRACTOR, RELAY TERMINAL	BILMAR	59688	EA 1
WRENCH, "E" TERMINAL POST	NEG	EDG-5951	EA 1
PLUGBOARD KIT, TYPE B1 RELAY	SIEMENS	420000-78	EA 1
RELAY, B1 470 OHM SR 4FB-2F-1B	ALSTOM	56001-778-	EA
RELAY, B1 500 OHM NEUT 4FB-2F-1B	ALSTOM	56001-783-	EA 1
RELAY, B1 2 OHM 4F8-2F-1B	ALSTOM	56001-921-	EA
RELAY, B1 6 OHM HD, 6FB	ALSTOM	TBD	EA
TIMER, STICK RELEASE SLT-1 SPECIFY TIME	GETS	800-086000	EA
LAMP CONTROLLER, CROSSING XLC	GETS	250991-000	EA 2
PLUGBOARD, XLC	GETS	251071-100	EA 2
VITAL LOGIC, GATE VLG RELAY DRIVE (SPECIFY INPUTS/OUTPUTS)	GETS	250948-XXX	EΑ
SOCKET, RELAY POTTER BRUMFIELD FOR N68	NEWARK	46F3583	EA 1
RELAY, POTTER BRUMFIELD N68 POWER OFF	NEWARK	KHAU-17A1	EA 1

# OHIO RAIL DEVELOPMENT COMMISSION



Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223 John R. Kasich, Governor • James G. Bradley, Chairman

February 25, 2016

Mr. Stephen Klinger Norfolk Southern Corporation Administrator Grade Crossing Program 1200 Peachtree St. NE, Box 123 Atlanta, GA 30309

RE: Automatic Grade Crossing Warning Devices - Construction Authorization

CR 8, Seneca County DOT# 481559L PID# 99303

Dear Mr. Klinger:

The plan and estimate dated 4/6/2015 for the referenced project has been reviewed and is acceptable. Norfolk Southern may proceed with the construction of the proposed grade crossing warning system in accordance with the abbreviated plan. This authorization is made with the stipulation and understanding that the approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit. Reimbursement of eligible actual cost is limited to \$448,415.00. Additional costs must be approved in writing by the Ohio Rail Development Commission (ORDC) prior to being incurred. Emergency verbal authorizations by ORDC may be permitted and will be confirmed by ORDC in writing within ten (10) business days of the verbal approval.

This authorization is contingent upon Norfolk Southern Corporation accepting the following instructions:

- 1. Norfolk Southern's project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to Don Damron, ORDC, Mail Stop #3140, 1980 West Broad Street, 2<sup>nd</sup> Floor, Columbus Ohio 43223, or email don.damron@dot.state.oh.us, or Fax 614-728-4520, (cell: 614-917-8466; office phone: 614-466-2509), and to the Public Utilities Commission of Ohio at George.martin@puc.state.oh.us (phone 614-752-9107). The Norfolk Southern 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. Norfolk Southern 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 CSX.



www.rail.ohio.gov phone: 614.644.0306

IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY

- 3. Norfolk Southern's project foremen will notify Don Damron at 614-917-8466 (cell) or <a href="mailto:don.damron@dot.state.oh.us">don.damron@dot.state.oh.us</a> (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. Norfolk Southern will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed ODOT Purchase Order to reference when billing.
- 5. Norfolk Southern 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.

Thank you for your assistance with these matters.

Sincerely,

Donald J. Damron Project Manager

C: Randall Schumacher, Supervisor, Rail Division, PUCO George Martin, Grade Crossing Planner, PUCO ORDC (file)



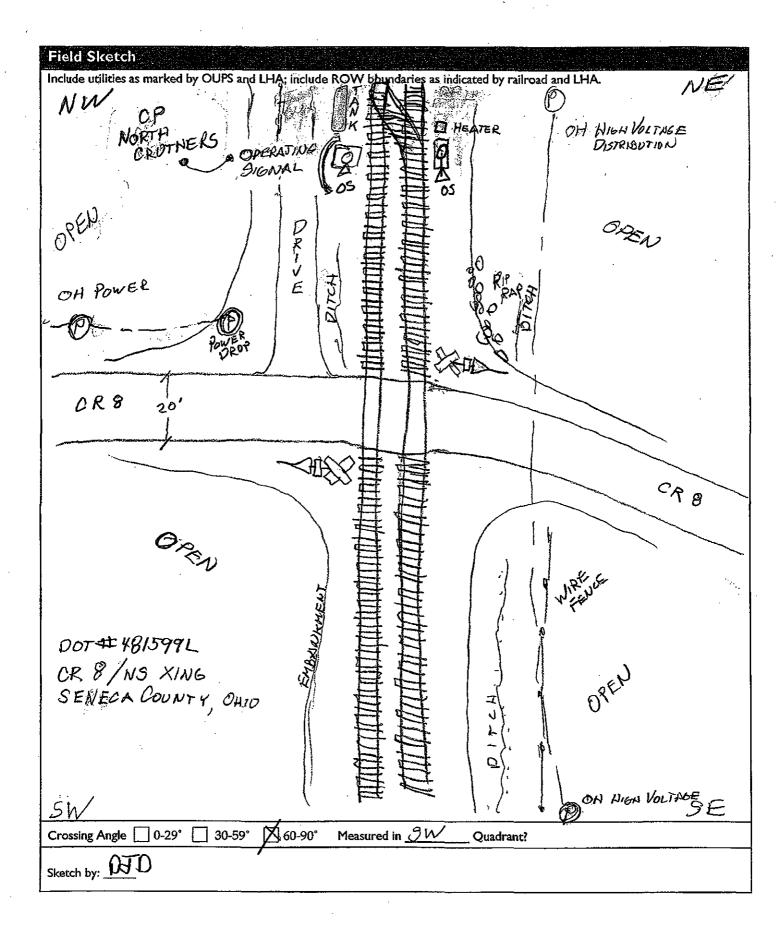
Diagnostic Review Team Survey

•		Date: 10/15/2014
Location Data		
Street or Road Name:		
Route/Road Number		US DOT No.:
(i.e. Twp., Co., SR or US) CR 8		481599L
County: SEN Township:	City: (In or Near)	Near Attica
Railroad Name: Norfolk Southern	Railroad Division: Lake	Branch/Line Sandusky Name: Sandusky
Nearest RR Timetable Station: Carrothers		RR Milepost: 78.64
On-Site Review Team		
	GRACIES CONTRACTOR SE	
(Include: Name – Organization – Phone Number – E	•	
1. EVERETT CHISM		
2. Dave Kin	FULO 614-7	419-447-1011
3. GEORGE MARTIN	PUCO 614-7	52-9107
1 Nathan Klung	NS 202	-758-8694
4. Nathan Mungo 5. Don Day Ron (	20 NC CH 907 80	-758-8694 166 Son.dunion Polotistate of
	200 814 114 00	166 Juniani in judini rate of
6		
7.		
8	-	
<u> </u>		
*		
Existing Traffic Control Devices		
Type of Warning Devices	Installed?	Quantity/Comments
Advance Warning Signs (condition?)	[☑Ýes	
'Stop' Signs	☐ Yes ☑ No	
'Stop Ahead' Signs	☐ Yes   No	
Pavement Markings (condition?)	☐Yes ☐ No	
Crossbucks		
Number of Tracks Signs		
Inventory Tags	☑ Yes	
Interconnected Highway Traffic Signal	☐ Yes ☑ No	
Mast-Mounted Flashing Lights	☐ Yes ☑∕No	
Cantilever Flashing Lights	☐ Yes Ū/No	Number: Length;
Side Lights	☐ Yes ☐ Yo	_
Automatic Gates	☐ Yes   ☐️	Number: Length:
Bells	☐ Yes ☐ No	Number:
Sidewalk Gate Arms	☐ Yes ☑-No	
'No Turn' Signs	☐ Yes LytNo	
Illumination	☐ Yes ☑ No	
Is crossing flagged by train crew?	☐ Yes 「YNo	
Other	☐ Yes ☑ No	
	L	

Quadrant SW 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: Yes	,
Is sidewalk present? Yo Yes	
Is there a nearby intersection that could cause queuing over the crossing? \( \bigcup \text{No}   \text{Yes} \)	
If yes, Distance	
Is this intersection signalized?  No Yes	
Are the signals currently interconnected with the existing crossing 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, nearby new or upgraded traffic signal, sidewalk) planned at or near this location in the foreseeable future?  Yes	
If yes, Improvement typeLead Agency	Timeline/completion
Is it the consensus of the Diagnostic Review Team that this is a potential closure project: Who Yes Explain reasons:	
T. A. Douglandon	
Type of Development	v ada a la
Open Space Institutional Location of nearby schools:	
☐ Industrial ☐ Commercial	
Residential	
Utility Information	
Is commercial power available? No Yes	
Utility Provider (Company Name)	Phone Number
Nearest Available Power Source	
What other utilities are present?	
(add locations to sketch)	
Is(are) there potential utility conflict(s) Yes No Unknown	
Comments:	
FIBER (UG) PARRAM NORTH	· · · · · · · · · · · · · · · · · · ·
TIBER (UG) TARRA	LLEC PO NOAN
VC271	SIDE
CULVERTS ON BOTH SIE	PES HUMPED XING

Diagnostic Team Recommendations	
	Quadrants Needed
Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	
AFLS / Gates	
AFLS / Gates / Cants	
Bells / number	2 BELLS
Upgrade circuitry / type	
Sidelights	
Guardrail Needed	
☐ Install/Replace curb	
Bungalow placement & offset from rail & highway	NW QUAD
Other (define)	
Comments:	CO/A)S - IMPROVE
1000 - LITTROVE OF LO	
COUNTY: "1 "	"/ OLDC: IMPROVE
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):	at the diagnosus must have at least one signature
OUP TIV	$\Omega \Omega = 0$
C. J. C.	- CHR
Com NLM	

CONSENSUS OF REVIEW TEAM:
WIGRADE TO LAG



### SEN CR 8, DOT # 481599L

