

Memo

To: Docketing Division
From: Jill Henry, Rail Specialist, Rail Division
Cc: PUCO Legal Department
Date: 4/11/17

Re: PUCO Case No. 17-963-RR-RCP- In the Matter of a Request to Upgrade the Existing Warning Devices to 12" LED Lights at the CSX Railroad Crossing, DOT# 523-807E, Newell Street, in Lake County, Ohio.

On October 17, 2016, the Ohio Rail Development Commission (ORDC) authorized funding for CSX Transportation to upgrade the existing warning devices to 12" LED Lights at the Newell Street crossing, DOT# 523-807E, in Lake County, Ohio. The crossing was surveyed on June 6, 2016 and was found to warrant the upgrade. The electric utility provider for this crossing is First Energy.

The project will be paid for with federal funds and is actual cost. The plans and estimates for the project in the amount of \$17,320.00 have been approved. Construction may commence at once. **Staff requests a Finding & Order with completion of the project in nine months.** Staff requests that the following language be incorporated in the Finding & Order:

It is expected that all work necessary for FHWA acceptance of the warning devices will be completed by the in-service due date and that the 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.

Please serve the following parties of record:


CSX Transportation, Inc.
Amanda DeCesare
Project Manager
500 Meijer Drive, Suite 305
Florence, KY 41042

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

City of Painesville
Leanne Exum
City Engineer
66 Mentor Avenue
Painesville, Ohio 44077

First Energy

**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: Lake County, Newell Street, CSX
DOT#523807E, PID#103871
DATE: November 18, 2016

The Ohio Rail Development Commission (ORDC) established a diagnostic survey at the subject location on June 16, 2016. The Diagnostic Team recommended to upgrade the existing warning devices to 12" LED Lights. 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 for nine months. This construction 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.

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 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, PUCO
Susan Arduni, ORDC
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

November 18, 2016

Ms. Amanda DeCesare
Project Manager
500 Meijer Drive, Suite 305
Florence, Ky 41042

RE: Lake County, Newell St, DOT 523807E
PID 103871, OH1145

Dear Ms. DeCesare:

The plan and estimate dated November 8, 2015, for the referenced project has been reviewed and is acceptable. CSX may proceed with the construction of the proposed 12" LED upgrade 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 \$17,320.00. Additional costs must be approved in writing by the 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 CSX accepting the following instructions:

1. CSX'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, at jill.henry@puc.state.oh.us. CSX'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. CSX 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.
3. CSX's project foremen will notify James Tucker at 614-398-6897 or james.tucker@dot.ohio.gov of any changes in the scope of work, cost overruns, material changes, etc. which are not included in the approved plan and estimate and secure approval of same before the work is performed.
4. Open cut of roadways is not permitted except in unusual circumstances and must be coordinated with the local highway authority and preapproved by ORDC.
5. CSX will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed ODOT Purchase Order to reference when billing.



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6. CSX 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,

A handwritten signature in blue ink, appearing to read 'J. Tucker', with a long horizontal flourish extending to the right.

James Tucker
Project Manager

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

**CSX TRANSPORTATION, INC.
FORCE ACCOUNT ESTIMATE**

Page 1

ACCT. CODE : 709 - OH1145

ESTIMATE SUBJECT TO REVISION AFTER: 5/7/2017
CITY: Painesville **COUNTY:** Lake
DESCRIPTION: Newell St. - Upgrade existing signals with 12" LEDs.

DOT NO.: 523807E
STATE: OH

DIVISION: Great Lakes **SUB-DIV:** Erie West **MILE POST:** QD-154.73
AGENCY PROJECT NUMBER: PID 103871

PRELIMINARY ENGINEERING:

212	Contracted & Administrative Engineering Services	\$	3,500
	Subtotal	\$	3,500

CONSTRUCTION ENGINEERING/INSPECTION:

212	Contracted & Administrative Engineering Services	\$	1,500
	Subtotal	\$	1,500

FLAGGING SERVICE: (Contract Labor)

070	Labor (Conductor-Flagman)	\$	-
050	Labor (Foreman/Inspector)	\$	-
070	Additive 117.39% (Transportation Department)	\$	-
050	Additive 118.86% (Engineering Department)	\$	-
230	Per Diem (Engineering Department)	\$	-
230	Expenses	\$	-
	Subtotal	\$	-

<u>SIGNAL & COMMUNICATIONS WORK:</u>	(Details Attached)	\$	12,320
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<u>TRACK WORK:</u>	(Details Attached)	\$	-
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<u>PROJECT SUBTOTAL</u>		\$	17,320
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900	<u>CONTINGENCIES:</u>	\$	-
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GRAND TOTAL	*****	\$	17,320
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DIVISION OF COST:

Agency	<u>100.00%</u>	\$	17,320
Railroad		\$	-
	TOTAL	\$	17,320

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

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 CSXT 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

Office of Assistant Chief Engineer Public Projects--Jacksonville, Florida

Estimated prepared by: BSE	Approved by: AJD	CSXT Public Project Group
DATE: 11/8/2016	REVISED:	DATE: 11/8/2016

Estimate No. 128752
CSX Transportation

Newell St.- Install 12" LED upgrade for Newell Street.
Painesville, OH

DOT: 523807E

OP: OH1145

CSX Project: OH2016052

Summary

Material	\$ 2,897
Sales Tax	\$ 0
Labor:	
Construction Labor (5 man-days).....	\$ 1,900
Shop Labor (0 man-days).....	\$ 0
Subsistence (5 man-days).....	\$ 750
Railroad Engineering, Preliminary	\$ 0
Railroad Engineering, Construction	\$ 285
Additives to Construction Labor	\$ 2,258
Additives to Shop Labor	\$ 0
Additives to Track Labor	\$ 0
Additives to Engineering	\$ 0
Equipment Expenses (0 work days).....	\$ 0
Waste Management (0 work days).....	\$ 0
Contract Engineering	\$ 3,030
Freight	\$ 1,200
Poleline Removal	\$ 0
AC Power Service	\$ 0
Salvage	\$ 0
<hr/>	
TOTAL ESTIMATE COST	\$ 12,320

Date: 11/07/2016

Estimated By: Scott Elliott

NOTE: This estimate should be considered void one year from date of estimate.

Field Material List for CSX Project: OH2016052 (Effective: 11/07/2016)
12" LED Upgrade
Painesville, OH - QD 154.73

Catalog Num	Cond	Unit Price	Qty	Cost	Description
020-0017076	1	0.17	100	17.00	TIE CABLE AMP 15-1/2" LENGTH UP TO 4" WIRE BUNDLE RANGE
020-0017605	1	0.27	400	108.00	WIRE CASE 10 AWG FLEX CSX SPEC SS796 OKONITE P/N
020-0056683	1	1827.88	1	1827.88	SIGNAL GCWD CANTILEVER FLASHER ASSY ONLY INCLUDES 4
020-0057077	1	897.19	1	897.19	SIGNAL CROSSARM FLX-4000 LED & 2-WAY JB CROSSARM NO
020-4151750	1	0.34	50	17.00	TAG PLASTIC 1-1/2 X 7/8" WIDE ONE HOLE WHITE MATT FINISH
020-4201042	1	0.13	40	5.20	NUT HEX BINDING (RSA NUT) AAR 14.1.11-6 14-24 NS-2 THD CONE
020-4201043	1	0.09	40	3.60	NUT HEX CLAMP (FLAT NUT) AAR 14.1.11-7 14-24 NS-2 THD FLAT
020-4201044	1	0.08	40	3.20	WASHER AAR 14.1.11 ROUND COPPER NICKEL PLATED FOR AAR
020-4251190	1	0.14	40	5.60	TERMINAL RING PANDUIT PV10-14RD YELLOW VINYL SIZE
360-0020350	1	1.62	5	8.10	WATER DRINKING PURIFIED 10OZ PLASTIC BOTTLES 15 PER CASE
370-0000503	1	3.86	1	3.86	LUBRICANT MULTI-PURPOSE PLASTIC SAFE 2-26 11 OZ
Total Cost: \$				2,896.63	



OHIO RAIL DEVELOPMENT COMMISSION

Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223

John R. Kasich, Governor • Mark Policinski, ORDC Chairman

October 17, 2016

Mrs. Amanda DeCesare
Project Manager
500 Meijer Drive, Suite 305
Florence, Ky 41042

RE: Lake County, Newell St. DOT#523807E, PID# 103871

Dear Mrs. DeCesare:

A diagnostic review was held at the above grade crossing on June 6, 2016. The crossing has been recommended for an upgrade to LED Lights.

CSX is authorized to proceed with the site plans and cost estimates (PE) or bid package for this project. This authorization is made with the stipulation and understanding that any field work needs prior approval before work begins. This authorization is made with the stipulation and understanding that an approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit.

The diagnostic review form is 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.

The Project Manager for this project is James Tucker. James can be reached at (614) 398-6897, or james.tucker@dot.ohio.gov, if you have any questions.

Sincerely,

Project Manager

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

Attachment: 1 (diagnostic review form)



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High Hazard Crossing With Active Warning Devices			
Street Name: Newell Street		County: LAK	
LHA: City of Painesville		USDOT#: 523807E	
Nearest City: Painesville		Hazard Rank: 55	
Roadway Information			
ADT: 4693 (2011)		Posted Speed Limit: 35 mph	
Railroad: CSX Transportation		Number of Tracks: 5 (2 mainlines & 3 sidings)	
Train Count: 44		Speed Over Crossing: 70 mph	
Storage Distance (Ft.): Not listed.		Train Detection Type: CWT	
Accidents			
Accident Factors		1 of Accident in Last 5 Years:	
		0 of Fatalities in Last 5 Years:	
Accident Date		1/29/2014	
Position of Accident		Moving over crossing	
Circumstance		Rail equipment struck by highway user	
Visibility/Time of Day		Dark	
Weather Conditions		Clear	
Crossing Interconnect.		No	
Crossing Illuminated		No	
Drove Around Train		No	
Highway User Action		Train hit car that was stopped on crossing.	
Alcohol/Drug Related?			
Driver Speeding?			
Other Notes: 1/29/2014 – A car was either stopped or moving very slowly over the crossing while the gates were activated, it was struck by a CSX train that was northbound.			
Recommendations: Do not stop on Tracks installed. Half hake Co Half			
City of Painesville. LED Light upgrade.			

County: LAK

Route: Newell Street

DOT#: 523807E

Date: 6/16/2016

Potential Red Flags / Project Challenges

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

N/A

Crossing Consolidation or Closure:

N/A

Real Estate or ROW:

N/A

Culverts / Drainage / Ballast Conditions:

N/A

Roadway and/or Sidewalks:

NW Quad steep drop off

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

no CWT PMD 2 upgrade to CWT.

Environmental:

N/A

Other:

Existing Traffic Control Devices

Type of Warning Devices	Installed?		Quantity/Comments
Advance Warning Signs (condition?)	<input checked="" type="radio"/> Yes	<input type="radio"/> No	2
'Stop' Signs	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
'Stop Ahead' Signs	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Pavement Markings (condition?)	<input checked="" type="radio"/> Yes	<input type="radio"/> No	1 good 1 BAD
Crossbucks	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of Tracks Signs	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Inventory Tags	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Interconnected Highway Traffic Signal	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No	
Mast-Mounted Flashing Lights	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cantilever Flashing Lights	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Number: 1 Length:
Side Lights	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Automatic Gates	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Number: Length:
Bells	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Number:
Sidewalk Gate Arms	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
'No Turn' Signs	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Illumination	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Is crossing flagged by train crew?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Other	<input type="radio"/> Yes	<input type="radio"/> No	

Railroad Data

Railroad Characteristics	Initial Information (from database)	Revised
Total trains per day	44	
< 1 per day		
Day thru trains	21	22
Night thru trains	20	19
Daytime switching movements	2	2
Nighttime switching movements		
Total number of tracks	5	
Number of main tracks	2	
Number of other tracks	3 Sidings NC-SC Yard	
Maximum train speed	70	
Typical train speed		
Amtrak		

If multiple tracks, can two trains occupy crossing at the same time? ☒ Yes ☐ NoCan one train block the motorists' view of another train at crossing? ☒ Yes (Explain below) ☐ NoCan one or more tracks be eliminated through the crossing? Yes ☒ NoAre there other track(s) crossing this same roadway within 100 ft of this crossing? Yes ☒ No

If yes, Crossing DOT #(if different) _____

If yes, distance _____ (take measurement between track centerlines at closest point along roadway)

County: LAK

Route: Newell Street

DOT#: 523807E

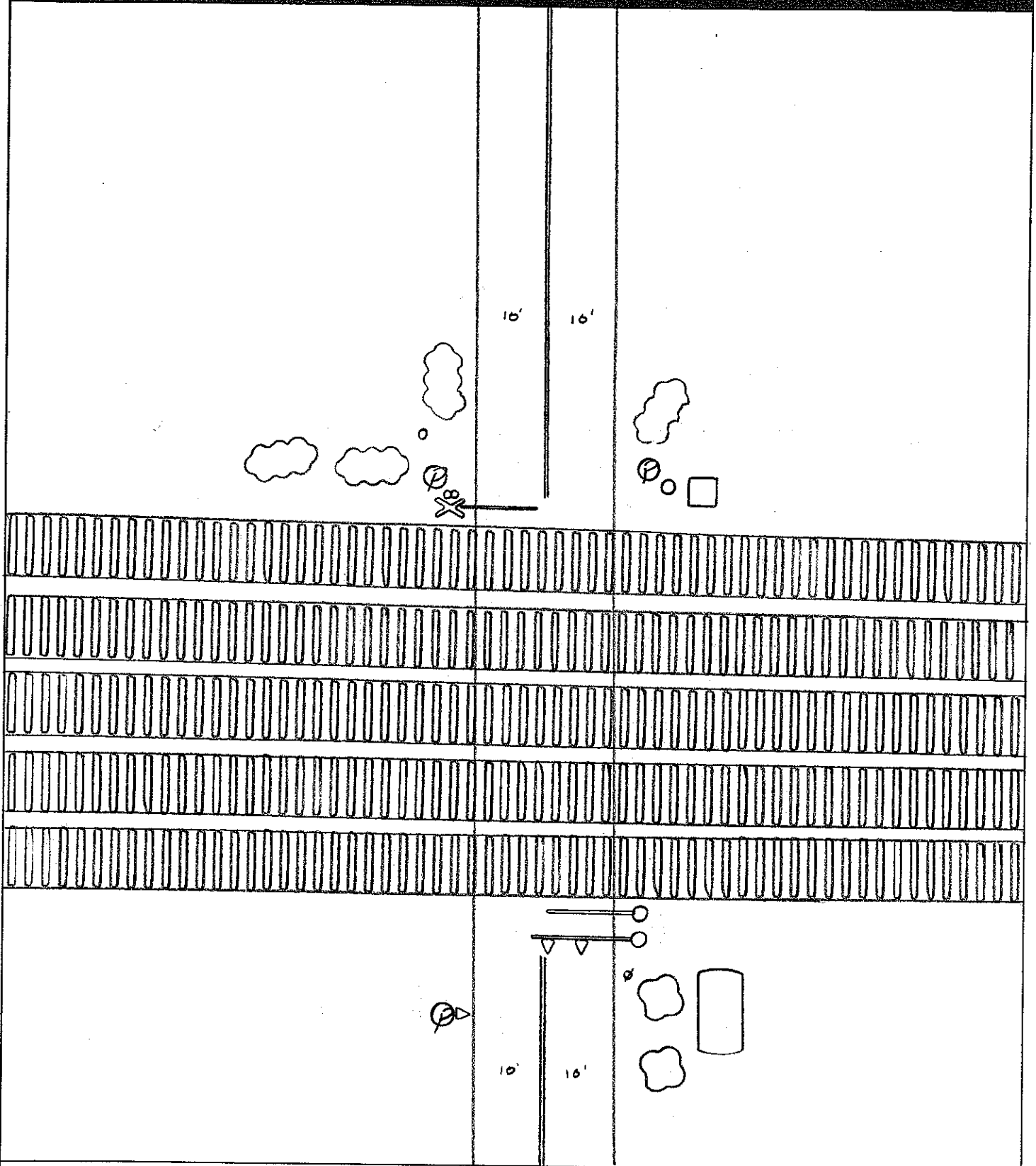
Date: 6/16/2016

Roadway Data

Local Highway Authority: City of Painesville		
Roadway Characteristics	Initial Information (from database)	Revised
Average daily traffic	4693 (2011)	
Highway paved	Yes X No	Yes No
Roadway Surface: <u>Blacktop</u> Gravel Concrete Other _____		
Roadway width: ____ ft. <u>20</u>		
Number of highway lanes	2	
Urban or Rural	Urban	
Vehicle Speed: ____ MPH <u>35</u>		
School Bus Operation: No Yes Amount <u>5</u>		
Hazardous Materials Trucks: No Yes X Amount <u>.04</u>		
Shoulders: No <u>Yes</u>		
Is the shoulder surfaced? <u>No</u> Yes		
Is there existing guardrail along roadway in crossing vicinity? <u>No</u> Yes		
Is stopping site distance adequate? (See Table 2) <u>Yes</u> No If no, deficient approach(es) _____		
Quadrant <u>~</u> Curb and Gutter: Functional (Curb height = 4" or more) Non-functional (Curb height = Less than 4") None	Quadrant <u>~</u> Curb and Gutter: Functional (Curb height = 4" or more) Non-functional (Curb height = Less than 4") None	
Pedestrians: No <u>Yes</u>		
Is sidewalk present? <u>No</u> Yes		
Is there a nearby intersection that could cause queuing over the crossing? <u>No</u> Yes If yes, Street Name _____ Distance _____ Is this intersection signalized? <u>No</u> Yes Are the signals currently interconnected with the existing crossing warning devices? <u>No</u> Yes Is there a 'Do not Stop on Track' sign? <u>No</u> 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? No Yes If yes, Improvement type <u>Pavement Widening</u> Lead Agency <u>Lake Co.</u> Timeline/completion <u>?</u>		
Is it the consensus of the Diagnostic Review Team that this is a potential closure project? <u>No</u> Yes Explain reasons:		
Type of Development		
Open Space <input checked="" type="checkbox"/> Institutional <input checked="" type="checkbox"/> Industrial Commercial <input checked="" type="checkbox"/> Residential	Location of nearby schools: <u>1/2 mile South</u>	

523807E

Field Sketch



Crossing Angle ☐ 0-29° ☐ 30-59° ☐ 60-90° Measured in _____ Quadrant?

Sketch by: _____

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.

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.

Diagnostic Review

(LAK – Newell Street, DOT # 523807E)

6/16/2016

Please print:

NAME	AGENCY	EMAIL ADDRESS	PHONE
JAMES TUCKER	ORDC	James.Tucker@dot.ohio.gov	614-398-6897
TOM BURNS	ORDC	THOMAS.BURNS@dot.ohio.gov	614-844-0293
Isabella Culliton	ORDC	Isabella.Culliton@dot.ohio.gov	
James Haffa	Painesville City Schools	james.haffa@pcds.net	440-392-5091
Angelo Cicconetti	Lubrizol	ac2@lubrizol.com	440-347-3758
Greg Hollerbach	Lubrizol	GPH@Lubrizol.com	440-347-3819
Matt Callahan	Cintas	callahanm@cintas.com	440-352-4003
Casey Hollis	Cintas	Hollisc@cintas.com	440-352-4003
BILL KLUN	LUBRIZOL	WLK@LUBRIZOL.COM	440-347-3948
SCOTT HARRIS	SPECTRUM BRANDS	SCOTT.HARRIS@SPECTRUMBRANDS.com	440-357-2624
Leanne Exum	City of Painesville	lexum@painesville.com	440-392-5926
Amanda DeCesare	CSX	amanda.decesare@csx.com	859-426-6924

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in

Case No(s). 17-0963-RR-RCP

Summary: Application In the Matter of a Request to Upgrade the Existing Warning Devices to 12" LED Lights at the CSX Railroad Crossing, DOT# 523-807E, Newell Street, in Lake County, Ohio. electronically filed by Mrs. Jill A Henry on behalf of PUCO/Rail Division