## **Public Utilities Commission of Ohio**

# Memo

To:

**Docketing Division** 

From

George Martin, Grade Crossing Planner, Rail Division

Re:

In the matter of the authorization of the Wheeling & Lake Erie Railway to install an active grade

crossing warning device in Stark County

Date:

October 4, 2012

The Ohio Rail Development Commission (ORDC) has authorized funding for the Wheeling & Lake Erie Railway (WE) to install mast-mounted flashing lights and roadway gates at the Allen Ave. SE grade crossing, DOT# 142854J, located in the City Canton, Stark County. The crossing was surveyed on February 12, 2012 and was found to warrant the upgrade.

The project will be paid for with federal funds, and is actual cost. As the plan and estimate has already been submitted and approved, staff requests an Entry with completion of the project in nine 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. 12- Apply -RR-FED In the matter of the authorization of the Wheeling & Lake Erie Railway to install an active grade crossing warning device in Stark County

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 accurate of the course of the

2012 OCT -4 AM 9: 40

Ms Susan Kirkland

Ohio Rail Development Commission

1980 West Broad St, 2<sup>nd</sup> Floor

Columbus, Oh 43223

Mr Dan Reinsel
Wheeling & Lake Erie Railway
100 East First St
Brewster, Oh 44613

Mr Nick Loukas, Assistant Engineer
City Service Center, Bldg A
2436 30<sup>th</sup> St NE
Canton, Oh 44705

Ohio Power Company

### OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO:

George Martin, Planner, Railroad Division, PUCO

FROM:

Susan Kirkland, Manager, Safety Section, ORDC

BY:

Mike Forte', Safety Section, ORDC M. Forti

SUBJECT:

Allen Ave. SE, Wheeling & Lake Erie Railway Company (WLE),

142 854J, City of Canton, Stark County

DATE:

October 3, 2012

The Public Utilities Commission of Obio (PUCO) established a diagnostic review at the subject location on February 15, 2012. The Ohio Rail Development Commission (ORDC) attended the review. The Diagnostic Team recommended the installation of flashing lights signals with roadway gates and a grade crossing reconstruction. A copy of the diagnostic review form is 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. Because of the added complexity of the grade crossing surface needing reconstruction to support the new warning system, please issue a one (1) year Order for the project. This construction authorization is made with the stipulation and understanding that any field work needs prior approval before the 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

C:

M. Fortè (file)



Diagnostic Review Team Survey

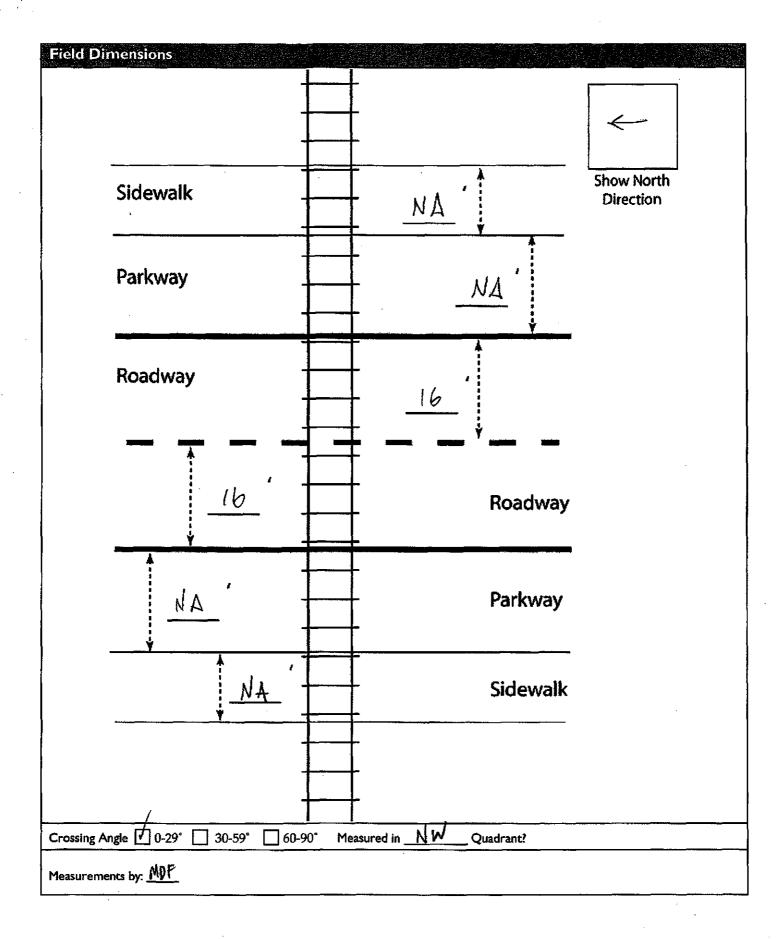
		Date: 2/15/2012		
Location Data				
Street or Road Name: Allen Avenue SE				
Route/Road Number (i.e. Twp., Co., SR or US)		US DOT No.: 142854J		
County: Stark (STA) Township:	Gith: (in or Near)	Canton		
Railroad Name: Wheeling & Lake Erie	Railroad Division: AK CLEVELANS	SUB Branch/Line SANDY BR		
Nearest RR Timetable Station: SANDY  RR Milepost: 15.5				
On-Site Review Team				
(Include: Name - Organization - Phone Number	: Emaíl)			
1. Mike Forte – ORDC – 614.374.9287 –	mike.forte@dot.state.oh.us MDF			
2. <u>George Martin – PUCO – 614.752.910</u>	<u> </u>	<u></u>		
3. DAN REINSEL WLE 3		QWLE RWY, COM		
4. SLAIM ZUNFILI PUCO				
5. Nick Loukas - Cantun	- nick.loukus & cantonohio	gov 330-436-6920		
6	,			
7				
8	, , , , , , , , , , , , , , , , , , , ,			
9	· · · · · · · · · · · · · · · · · · ·			
Existing Traffic Control Devices	<			
Type of Warning Devices	Installed?	Quantity/Comments		
Advance Warning Signs (condition?)	X Yes ☐ No	GOOD 2		
'Stop' Signs	Yes X No			
'Stop Ahead' Signs	Yes X No			
Pavement Markings (condition!)	☐ Yes     No			
Crossbucks	☑ Yes ☐ No	Z WYIELD YENS		
Number of Tracks Signs				
_	Yes 🗵 No	N.A		
Inventory Tags		N.A N.A.		
Inventory Tags Interconnected Highway Traffic Signal	Yes         No           Yes         No           Yes         No	N.A		
	☐ Yes   ☑ No ☐ Yes   ☑ No	N.A		
Interconnected Highway Traffic Signal	Yes         No           Yes         No           Yes         No	N.A		
Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights	Yes         No           Yes         No           Yes         No           Yes         No           Yes         No	N.A.		
Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights	Yes         No           Yes         No           Yes         No           Yes         No           Yes         No           Yes         No	N.A.		
Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights	Yes         No	N. A. N. A.  Number: Length:		
Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates	Yes         No	N. A N. A.  Number: Length:  Number: Length:		
Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells	Yes         No	N. A N. A.  Number: Length:  Number: Length:		
Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells Sidewalk Gate Arms	Yes         No	N. A N. A.  Number: Length:  Number: Length:		
Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells Sidewalk Gate Arms 'No Turn' Signs	☐ Yes         ☒ No           ☐ Yes         ☒ No	N. A N. A.  Number: Length:  Number: Length:		

	Safety Data (Obtain crash reports, if possible, prior to review)			
Initial Information (from database)		Revised		
Number & dates of crashes 1 (3/7/2011) in previous 5 years				
Hazard Ranking 82		Date Run: 2/2/2012		
Railroad Data				
Railroad Characteri	stics	Initial Information (from database)	Revised	
Total trains per day		4		
< 1 per day				
Day thru trains		1		
Night thru trains		1		
Daytime switching movements		1		
Nighttime switching mover	nents	1		
Total number of tracks				
Number of main tracks		1		
Number of other tracks		0		
Maximum train speed		12	10	
Typical train speed			10	
Amtrak			N	
If non-gated crossing, is clearing	ng sight distan	ce adequate in all quadrants? (See Table 1)	<b>☑</b> Yes ☐ No	
if multiple tracks, can two train	ns occupy cro	ossing at the same time? Yes No		
<u> </u>		another train at crossing? Tyes (Explain be	low) TNo	
Can one or more tracks be eli		¥ <u>=-</u>		
		roadway within 100 ft of this crossing?	You did No	
If yes, Crossing DOT #(if o	ilig uns same lifferent)	roadway within 100 it of this crossing:	ies Millio	
If yes, distance (take measurement between track centerlines at closest point along roadway)				
I II Jes, distance	(take me:	asurement between track centerlines at close	st point along roadway)	
Roadway Data	(take me	asurement between track centerlines at close	st point along roadway)	
The state of the s	(take me	asurement between track centerlines at close  City of Canton	st point along roadway)	
Roadway Data Local Highway Authority: Roadway Characteri			Revised	
Roadway Data Local Highway Authority:		City of Canton		
Roadway Data Local Highway Authority: Roadway Characteri		City of Canton Initial Information (from database)	Revised	
Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: A Blackto	istics	City of Canton Initial Information (from database) 2100 (2006)  Yes	Revised 900 \$ (2009)	
Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved	istics	City of Canton Initial Information (from database) 2100 (2006)  Yes	Revised 900 \$ (2009)	
Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: A Blackto	istics	City of Canton Initial Information (from database) 2100 (2006)  Yes	Revised 900 \$ (2009)	
Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blackto Roadway width:	istics	City of Canton Initial Information (from database) 2100 (2006)  Yes No Concrete Other	Revised 900 \$ (2009)	
Roadway Data  Local Highway Authority:  Roadway Characteri  Average daily traffic  Highway paved  Roadway Surface: Blackto  Roadway width: Ft.  Number of highway lanes	istics	City of Canton Initial Information (from database)  2100 (2006)  Yes No Concrete Other	Revised 900 \$ (2009)	
Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blackto Roadway width: Local Blackto	stics p Gravel	City of Canton Initial Information (from database)  2100 (2006)  Yes No Concrete Other  2 Urban	Revised 900 \$ (2009)	
Roadway Data  Local Highway Authority:  Roadway Characteric  Average daily traffic  Highway paved  Roadway Surface: Blackto  Roadway width: Tt.  Number of highway lanes  Urban or Rural  Vehicle Speed: 35 MPH	stics p Gravel	City of Canton Initial Information (from database)  2100 (2006)  Yes No Concrete Other  2 Urban	Revised 900 \$ (2009)	
Roadway Data  Local Highway Authority:  Roadway Characteric  Average daily traffic  Highway paved  Roadway Surface: Blackto  Roadway width: Tt.  Number of highway lanes  Urban or Rural  Vehicle Speed: 35 MPH  School Bus Operation: No  Hazardous Materials Trucks:	Gravel	City of Canton Initial Information (from database)  2100 (2006)  Yes No Concrete Other  2 Urban  Amount	Revised 900 \$ (2009)	
Roadway Data  Local Highway Authority:  Roadway Characteric  Average daily traffic  Highway paved  Roadway Surface: Blackto  Roadway width: 2 ft.  Number of highway lanes  Urban or Rural  Vehicle Speed: 35 MPH  School Bus Operation: No  Hazardous Materials Trucks:  Shoulders: No	Gravel  O Ye  O No	City of Canton Initial Information (from database)  2100 (2006)  Yes No Concrete Other  2 Urban  Amount	Revised 900 \$ (2009)	
Roadway Data  Local Highway Authority:  Roadway Characteric  Average daily traffic  Highway paved  Roadway Surface: Blackto  Roadway width: 2 ft.  Number of highway lanes  Urban or Rural  Vehicle Speed: 35 MPH  School Bus Operation: No  Hazardous Materials Trucks:  Shoulders: No	istics  p	City of Canton Initial Information (from database)  2100 (2006)  Yes No Concrete Other  2 Urban  Yes Amount Yes Amount	Revised 900 \$ (2009)	

Quadrant Curb and Gutter:	Quadrant 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 Yes	<u> </u>			
Is sidewalk present? No Yes				
Is there a nearby intersection that could cause queuing over the co	rossing? No 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? \( \square\) No \( \square\) 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 Lead Agency	Timeline/completion			
Is it the consensus of the Diagnostic Review Team that this is a po	otential closure project: No Yes			
Explain reasons:				
Type of Development				
Open Space Institutional Location of nearby	y schools:			
All Industrial Commercial LEARNING	CONTER ON 19TH			
Utility Information				
Is commercial power available? No X Yes				
Utility Provider (Company Name) AEP Phone Number				
What other utilities are present? AU  (add locations to sketch)				
1	7.15-1			
Is(are) there potential utility conflict(s) Yes No Unknown				
Comments:				
	·			

on name and LHA with jurisdiction over traffic signal, if known):
•
WLE 80 ON NW, GO ON SE
ITS
eeds, etc.):
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Diagnostic Team Recommendations	
	Quadrants Needed
Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	WOST - SOF THACKS
AFLS /Cants	L-N-W
AFLS / Gates	SE
AFLS / Gates / Cants	hw
Bells / number	
Upgrade circuitry / type	
☐ Sidelights	
☐ Guardrail Needed	
☑ Install/Replace curb	NW
Bungalow placement & offset from rail & highway	
X Other (define)	KECONSTRUCT SURFACE
Install/upgrade traffic signal preemption	
☐ No improvements needed	
Other (define)	
Acknowledgement of Recommendations (each entity represente acknowledgement):  Dan Remul  Oug National Control of Recommendations (each entity represente acknowledgement):	ed at the diagnostic must have at least one signature  MB, F
2	



Field Sketch Include utilities as marked by OUPS and LHA; include ROW boundaries as indicated by railroad and LHA. PRIVATE DRIVE GAS MARKER OH \_ PHON ELEC DRIVEWAY XB 0 G49 MARKER NW Crossing Angle 1 0-29° 30-59\* ☐ 60-90° Measured in \_ Quadrant? Sketch by: MDT

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 <u>non-gated crossings</u> as viewed from a point 25 feet from centerline of nearest track in the center of whichever travel lane is nearest the direction along track being measured.

Table 2

## **Stopping Sight Distances**

Highway Vehicle Speed	Distance (dH) Along Roadway from Crossing (ft)
0	n/a
5	50
10	70
15	105
20	135
25	180
30	225
35	280
40	340
45	410
50	490
55	570
60	660
65	760
70	865

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

#### Notes

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

Distances indicated are for 65-ft double bottom semi-tractor trailers on dry level pavements.

Stopping Sight Distance is to be measured on each roadway approach to crossing from stop bar.

