

Public Utilities Commission of Ohio

Memo

Docketing Division To:

George Martin, Grade Crossing Planner, Rail Division

Re: In the matter of the authorization of Norfolk Southern Railway to install an active grade crossing

warning device in Erie County

June 2, 2014 Date:

The Ohio Rail Development Commission (ORDC) has authorized funding for Norfolk Southern Railway (NS) to install mast-mounted flashing lights and roadway gates at Erie County, City of Sandusky, Olds Street, DOT# 481670T. The crossing was surveyed on November 12, 2013 due to its hazard ranking, 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 a Finding & Order 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. 14- 1010 -RR-FED In the matter of the authorization of Norfolk Southern Railway to install an active grade crossing warning device in Erie County

C: Legal Department

Please serve the following parties of record

Ms Cathy Stout

Ohio Rail Development Commission

1980 West Broad St, Mailstop #3140

Columbus, Oh 43223

Ms Cayela Wimberly

Norfolk Southern Railway

1200 Peachtree St, Box 123

Atlanta, Ga 30309

Mr D Casey Talbot

Eastman & Smith Ltd

One Seagate, 24th Floor

PO Box 10032

Toledo, Oh 43699-0032

Mr Aaron Klein, PE, City Engineer

222 Meigs St

Sandusky, Oh 44870

Toledo Edison

OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO:

George Martin, Rail Division, PUCO

FROM:

Cathy Stout, Manager, Safety Section, ORDC

BY:

Joe Reinhardt, Project Manager, ORDC

SUBJECT:

Erie County, Old Street, DOT 481670T

Norfolk Southern, PID 97265

DATE:

June 2, 2014

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on Olds Street. 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 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 <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)



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

June 2, 2014

Ms. Cayela Wimberly Public Projects Engineer 1200 Peach Street, Box 123 Atlanta, Ga. 30309

RE: E

Erie County, Olds Street, DOT 481670T

PID# 96426, NS Project 10.2122

Dear Ms. Wimberly:

The plan and estimate dated June 2, 1012, for the referenced project has been reviewed and is acceptable. NS may proceed with the construction of the proposed grade crossing warning system and resurfacing 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 \$334,751.00. 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 NS accepting the following instructions:

- 1. NS's project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to Joe Reinhardt, ORDC, joe.reinhardt@dot.state.oh.us email and to the Public Utilities Commission of Ohio at George.martin@puc.state.oh.us. NS's project foreman will also notify the same of any stops and re-starts of the work activity and of the date work was completed for the project.
- 2. NS 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 NS.
- 3. NS's project foremen will notify Joe Reinhardt at 614-580-7728 (telephone) or joe.reinhardt@dot.state.oh.us (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. NS will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed Encumbrance Estimate to reference when billing.



www.rail.ohio.gov phone: 614.644.0306

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5. NS 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.

mand 1

Sincerely,

Joseph Reinhardt Project Manager

C: George Martin, PUCO, Grade Crossing Planner ORDC (file)

Attachment: 1 (encumbrance estimate)

OHIO RAIL DEVELOPMENT COMMISSION

Diagnostic Review Team Survey

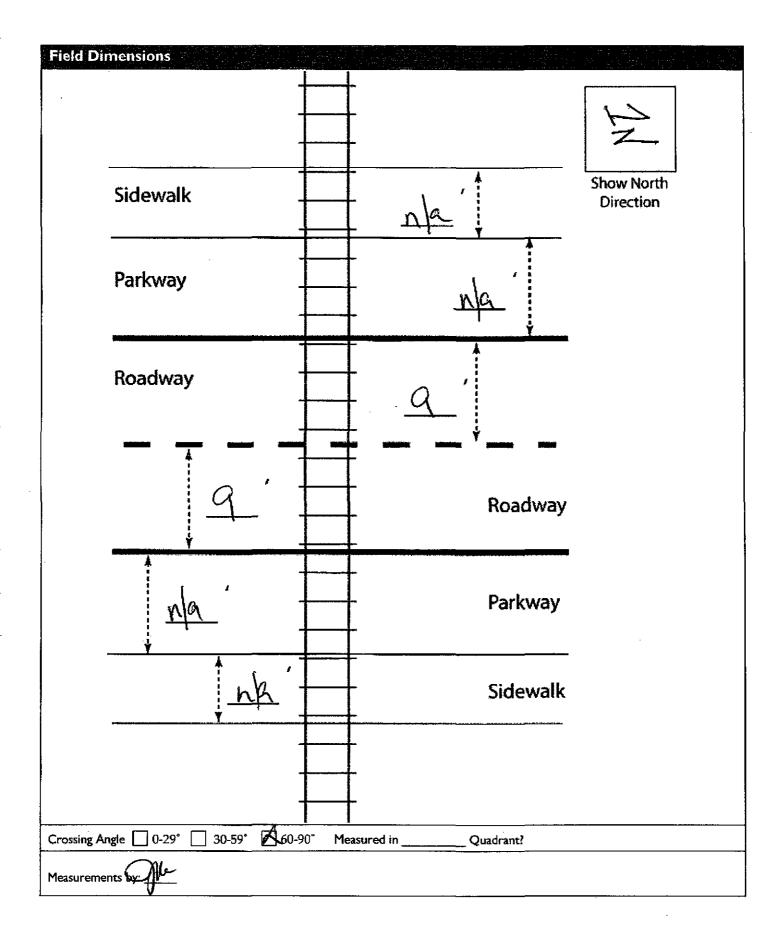
Reason for Survey: Formula (e.g. formula, accident, constituent, etc.)	Pick	Date: ///2//3
Location Data		
Street or Road Name: Olds Street	•	·
Route/Road Number (i.e. Twp., Co., SR or US)		US DOT No.: 481670T and 509650S
County: ERI Township:	City: (In or I	Near) Sandusky
Railroad Name: Norfolk Southern	Raifroad Division: Lake	Branch/Line Sandusky Name:
Nearest RR Timetable Station: Sandusky		RR Milepost: 09,64 & 240.9
On-Site Review Team		
2. UGEORGE MANTA	RUCO 614-6	44-0291 -752-9107 627-5829
3. Aaron Klein S 4. ED Doverneer S	indisk 418.	-627-5831
5.		
6		
7		
8		
9.		
Existing Traffic Control Devices	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Type of Warning Devices	Installed?	Quantity/Comments
Advance Warning Signs (condition?)	Yes □ No No No No No No No No No No	
'Stop' Signs	Yes No	
'Stop Ahead' Signs	Yes7-No	
Pavement Markings (condition?)	V Yes □ No	
Crossbucks	✓ Yes No	
Number of Tracks Signs	i ⁄ Yes ☐ No	
Inventory Tags	☐ Yes 🖟 No	
Interconnected Highway Traffic Signal	Yes ANo	
Mast-Mounted Flashing Lights	☐ Yes Yes	
Cantilever Flashing Lights	☐ Yes 📝 No	
Side Lights	☐ Yes K No	
Automatic Gates	☐ Yes 📝 No	Number: Length:
Bells	☐ Yes No	Number:
Sidewalk Gate Arms	Yes F-No	
'No Turn' Signs	☐ Yes 📆 No	
Illumination	Ø Yes No	
Is crossing flagged by train crew?		
to an opposite time page of a training to a training to	☐ Yes 💆 No	_

Safety Data (Obtain c	rash repo	rts. if possible.	prior to review)			
		tial Information (Revised	
Number & dates of crashes in previous 5 years	0 (11/	98) & (5/93) & (8/8	9)			
Hazard Ranking	817 4	09 - (12/20/2010)	Date Run: 10/9/2013			
Railroad Data						
Railroad Characteri	stics	Initial Informa	tion (from database)		Revised	
Total trains per day		12 6				
< 1 per day						
Day thru trains	·	3 3				
Night thru trains		3				
Daytime switching movem		6 3				
Nighttime switching move	nents	0		<u> </u>		
Total number of tracks		2 2			SIVE	
Number of main tracks		1 1	<u>-</u>		NE	
Number of other tracks		1 Side Trac	<u> </u>	<u> </u>	PARE	···
Maximum train speed		20 20	· · · · · · · · · · · · · · · · · · ·			
Typical train speed		15 15		<u> </u>		
Amtrak						
If non-gated crossing, is clearing	ng sight distar	nce adequate in all q	uadrants? (See Table 1)	Yes [] No	
If multiple tracks, can two trai	ns occupy cr	ossing <mark>at th</mark> e same ti	ime? 🗌 Yes 🛮 🗷 No			
Can one train block the moto	rists' view of	another train at cro	ossing? 🔲 Yes (Explain be	elow) 🔼	No	
Can one or more tracks be el	iminated thro	ough the crossing?	☐ Yes			
Are there other track(s) cross	sing this same	roadway within 10	0 ft of this crossing?	Yes No		
If yes, Crossing DOT #(if o	different)		· •	(
If yes, distance	(take me	asurement between	track centerlines at close	est point along	roadway)	
Roadway Data						
Local Highway Authority:		City of Sandus	iky	_		
Roadway Character	istics	Initial Informa	tion (from database)		Revised	
Average daily traffic		918 (200	06)			
Highway paved		Yes 🗌	No	Yes	□No	
Roadway Surface: Blacktop Gravel Concrete Other						
Roadway width: 18 ft.						
Number of highway lanes		2				
Urban or Rural		Rural				
Vehicle Speed: 25 MPH						
School Bus Operation: X No	Yes	Amount		_ 4. :		
Hazardous Materials Trucks: No Yes Amount						
Shoulders: WNO Yes						
Is the shoulder surfaced? PNo Yes						
Is there existing guardrail alon	g roadway in	crossing vicinity?	No ☐ Yes			
Is stopping site distance adequate? (See Table 2) Yes No If no, deficient approach(es)						

Nail College		
Quadrant Curb and Gutter:	Quadrant State 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")	
M. None	Mone.	
Pedestrians: No Yes		
Is sidewalk present? No Yes	•	
Is there a nearby intersection that could cause queuing over the could	rossing? 🔏 No 🗌 Yes	
If yes, Distance		
Is this intersection signalized? No Yes		
Are the signals currently interconnected with the existing crossi	ing warning devices? 🗶 No 📋 Yes	
Is there a 'Do not Stop on Track' sign? No Yes	•	
location in the foreseeable future? No Yes	by new or upgraded traffic signal, sidewalk) planned at or near this	
If yes, Improvement typeLead Agency	Timeline/completion	
Is it the consensus of the Diagnostic Review Team that this is a po Explain reasons:	otential closure project: No Yes	
Type of Development		
[1] B. C. S. C. C. Martin and A. Barrer, A. S. Salin, M. W. C. S. L. C. S. Service and T. Charles and J. P. S. Salin, Phys. Rev. Lett. 12, 124 (1997).		
Open Space Institutional Location of nearb	y schools:	
Industrial Commercial		
Residential	에 있다면 하는 것만 전기적으로 보고 있다면 하는 것 것 같습니다.	
Utility Information		
Is commercial power available? No Yes		
Utility Provider (Company Name) Edits	Phone Number	
Nearest Available Power Source		
What other utilities are present? Gas Cable (add locations to sketch) Other Other	☐ Telephone ☐ Fiber Optic Cable ☐ Sanitary Sewer	
Is(are) there potential utility conflict(s) Yes No [M. Unknown	
Overhead telephone lines possibly need raised in the SE Quadrand.		
Overhead telephone		
in the se around	va-d /	

Potential Red Flags / Project Challenges
Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known):
Crossing Consolidation or Closure:
Real Estate or ROW:
Culverts / Drainage / Ballast Conditions:
Notel - marcher blocked coloret south of track.
Ditch, possibly blocked cultert south of track; Additional work will be needed in SE Quad.
Additional work only be needed in so and.
Roadway and/or Sidewalks:
Circuitry (e.g. reaches out to other crossings, specific needs, etc.):
Circulary (e.g. reacties out to other crossings, specific needs, etc.):
Environmental:
Other:
Two tracks have been cut & penain in roadway;
3 mis of the remain tracks are in the main
track of the crossnej
And the same of th

Diagnostic Team Recommendations	
	Quadrants Needed
Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	•
AFLS / Gates	JE & NW
AFLS / Gates / Cants	
Bells / number	
Upgrade circuitry / type	
Sidelights	
Guardrail Needed	
Install/Replace curb	
Bungalow placement & offset from rail & highway	
Other (define)	
Intell Fl8's parrellel to track Elimenda track in road	(in SE Quadrant.
Install/upgrade traffic signal preemption	
☐ No improvements needed	
Other (define)	
Acknowledgement of Recommendations (each entity represented acknowledgement): Commendation Commendation	at the diagnostic must have at least one signature



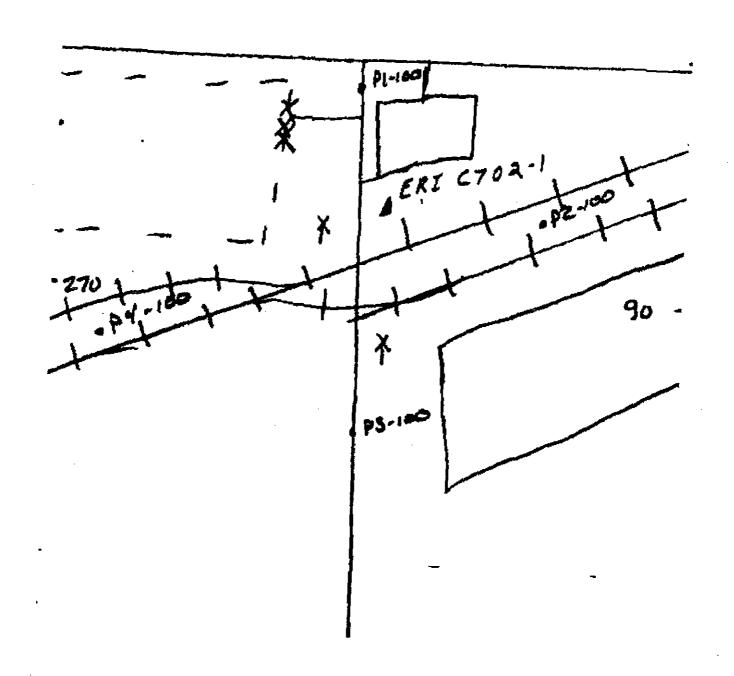


TABLE I

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 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.

