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2015 MAR 11 PM 3: 06

**Public Utilities Commission of Ohio** 

PUCO

# Memo

To:

**Docketing Division** 

From:

George Martin, Grade Crossing Planner, Rail Division

Re:

In the matter of the authorization of CSX Transportation to install an active grade crossing

warning device in the City of Troy, Miami County

Date:

March 11, 2015

The Ohio Rail Development Commission (ORDC) has authorized funding for CSX Transportation (CSX) to install mast-mounted flashing lights and roadway gates at Miami County, City of Troy, Dakota St., DOT# 155180E. The crossing was surveyed on May 6, 2014, due to its hazard ranking, and was found to warrant the upgrade. Staff notes that this will be a complex project, requiring extensive roadway work and interconnection of existing railroad signal devices at Union Street. The total approved cost of the project is \$383,372.00.

The project will be paid for with federal funds, and is actual cost. The plan and estimate for this project has already been approved in the amount noted above. Staff requests a Finding & Order with completion of the projects within nine months and 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.

A suggested case coding and heading would be:

PUCO Case No. 15- 48 -RR-FED: In the matter of the authorization of CSX Transportation to install an active grade crossing warning device in the City of Troy, Miami 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

Page 1

Ms Cathy Stout

Ohio Rail Development Commission

1980 West Broad St, Mailstop #3140

Columbus, Oh 43223

Ms Amanda DeCesare

**CSX Transportation** 

500 Meijer Dr, Ste 305

Florence, Ky 41042

Ms Deborah Swan, PE

City Engineer

100 South Market St

Troy, Oh 45373-7303

DP&L

## 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, QRD

SUBJECT:

Miami County, Dakota Street, CSX

DOT 155180E, PID 98787

DATE:

March 9, 2015

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on Dakota 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)



## OHIO RAIL DEVELOPMENT COMMISSION

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

March 9, 2015

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

RE: Miami County, Dakota Street, DOT 155180E

PID 98787, OH1024

Dear Ms. DeCesare:

The plan and estimate dated December 10, 2014, for the referenced project has been reviewed and is acceptable. CSX 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 \$383,372. 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 Joseph Reinhardt, ORDC, email <a href="Joe.Reinhardt@dot.state.oh.us">Joe.Reinhardt@dot.state.oh.us</a> and to the Public Utilities Commission of Ohio, at <a href="George.martin@puc.state.oh.us">George.martin@puc.state.oh.us</a>. 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 Joe Reinhardt at 614-580-7728 or <u>Joe.Reinhardt@dot.state.oh.us</u> 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.



www.rail.ohio.gov phone: 614.644.0306
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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.
- This installation will include any ancillary work to make the warning devices function as 7. designed and meet MUTCD.

Thank you for your assistance with these matters.

Sincerely,

oseph Reinhardt Project Manager

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

ORDC (file)

# OHIO RAIL DEVELOPMENT COMMISSION

Diagnostic Review Team Survey

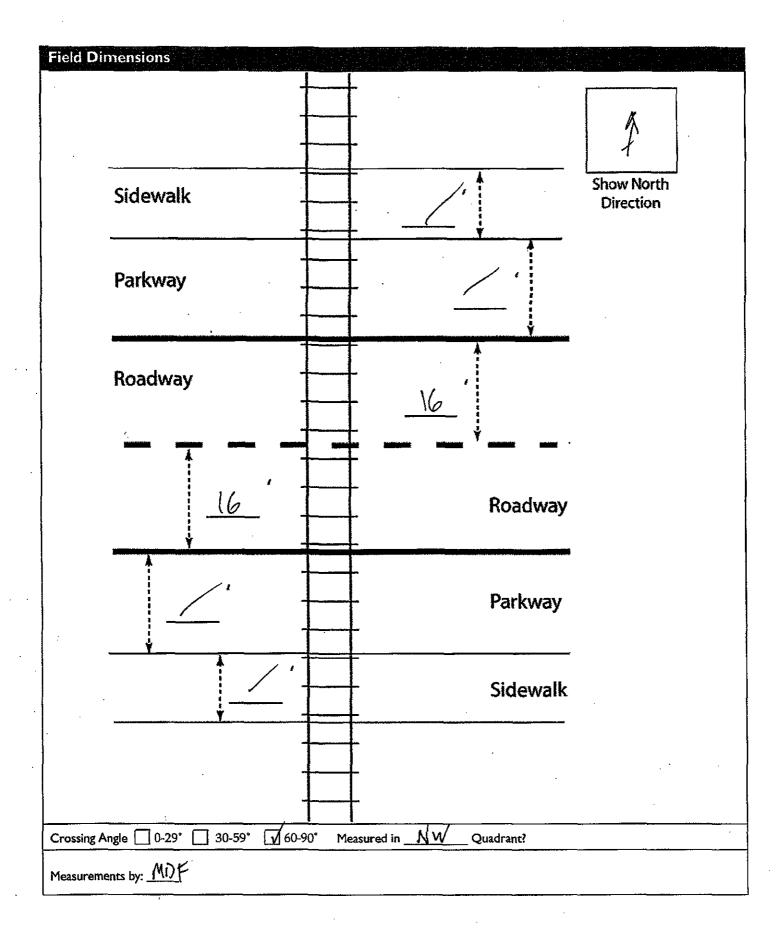
Reason for Survey: (e.g. formula, accident, constitu	ent, etc.) Formula I	ick		,	Date: 5	.6.14	
Location Data							
Street or Road Name:	Dakota Street	and the second of the second o	Carlotte Control			a gang di manggaran an ang <u>tanggaran an an</u>	The second secon
Route/Road Number (i.e. Twp., Co., SR or US)		· · · · · · · · · · · · · · · · · · ·	•		US DOT No.:	155180E	
County: MIA	Township:			City: (In or Near)	City of Tr	roy	
Railroad Name: CSX Transporta	ition	Raifroad Division:	Midwest	LOVISVILL	屯 .	Branch/Line T Name:	oledo Sub
Nearest RR Timetable Station: Troy			-		RR Milepo	ost: 78.9	
(Include: Name – Organizatio	n – Phone Number – I	Email)					
1. MIKE FORTE		OF	COC_		614.37	4.9287	
2. Dwight Sc	hoeder		SX		414-5	35-130	
3. Corollog MAN	M	- PU	io a		614-7	52-9107	-
4. Neil Teato	rd	City	0/1	Troy.	Cell 93	31-875-25	06
5. Amanda De	Cesare	1	? <x< td=""><td>7</td><td>359 4</td><td>26 6924</td><td>2</td></x<>	7	359 4	26 6924	2
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Existing Traffic Co	ntrol Devices						
Type of Warning			Installe	ed?		Quantity/Con	nments
Advance Warning Signs (co		7	Yes	☐ No			
'Stop' Signs			Yes)	☑ No	14	HIGHWAY	INTERSECTION
'Stop Ahead' Signs			Yes	□No	1		
Pavement Markings (condi							
Crossbucks	tion!)		Yes	☑ No			
	don!)		Yes	☑ No	2	W/ YIELD	
Number of Tracks Signs	(tion!)	<u> </u>	Yes Yes	ŊNo No No		W YIELD	
Number of Tracks Signs Inventory Tags		<u> </u>	Yes Yes Yes	No No No No		W/ YIELD	
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Number of Tracks Signs Inventory Tags Interconnected Highway T Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells	raffic Signal	<u> </u>	Yes	No No No No No No V No V No V No V No	Numbe	r: Le	
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Safety Data (Obtain c	rash repo	rts, if possible, prior to re	eview)	
		ial Information (from databa		Revised
Number & dates of crashes in previous 5 years	1 (11/12/2009)			
Hazard Ranking	66 Date Run: 4/9/14		······································	
Railroad Data				
Railroad Characteri	stics	Initial Information (from d	atabase)	Revised
Total trains per day		28		
< I per day				
Day thru trains		13		
Night thru trains		15		
Daytime switching movements		0		
Nighttime switching mover	nents	0		
Total number of tracks		3		2
Number of main tracks		1		
Number of other tracks		2		1 JIDING
Maximum train speed		25		<u> </u>
Typical train speed	<del></del>			
Amtrak		<u> </u>		NO
If non-gated crossing, is clearing	ng sight distar	ce adequate in all quadrants? (See	Table I)	Yes No
If multiple tracks, can two trai	ns occupy cro	ossing at the same time? VYes	No	
		another train at crossing? Yes	_	ow) No
Can one or more tracks be el			No.	, _
		roadway within 100 ft of this cro		es V No
If yes, Crossing DOT #(if of the liftyes, distance	lifferent)	asurement between track centerli	- <del></del>	
Roadway Data	(unito into		To a constant	
Local Highway Authority:	<u> </u>	City of Troy		<u> 1900. japon kun kulti muun kun kun kuun kun Annin kun ku</u>
Roadway Character	ictice	Initial Information (from d	atabasa)	Revised
	isucs	inda knormadon (irom d	acabase)	Neviseu
Average daily traffic		374 (2012)		
Highway paved		✓ Yes   ☐ No		Yes No
Roadway Surface; Blacktop		Concrete Other		
Roadway width: 32-ft.				
Mumber of highway lanes				2
Urban or Rural				
Vehicle Speed: MPH	<u> </u>		-	15.
<del>/</del>		A		25
School Bus Operation: V N	/	Amount		
Hazardous Materials Trucks: Shoulders: No	<del></del>	Yes Amount	·	
	(es		<del>-</del> ,	
Is the shoulder surfaced?		Yes		
Is there existing guardrail alon	ig roadway in	crossing vicinity? \_\No \_\	res .	
Is stopping site distance adequ		<del></del>		

Combanda Combanda	Ouadrant 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	
Is sidewalk present? No Yes  Is there a nearby intersection that could cause queuing over the	crossing? V No Yes
If yes,  Distance	crossing: [a] 140 [ ] 1es
Is this intersection signalized? No Yes	•
Are the signals currently interconnected with the existing cross	sing warning devices?  No Yes
Is there a 'Do not Stop on Track' sign? \( \bigcap \) No \( \bigcap \) Yes	
location in the foreseeable future? \( \int \) No \( \subseteq \) Yes	rby 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 p	otential closure project: No Yes
Explain reasons:	
Type of Development	
Open Space Institutional Location of nearly	by schools:
☑ Industrial ☐ Commercial	BLOCKS N.
Residential	
Utility Information	
/	•
Is commercial power available? No VYes	
Utility Provider (Company Name)	Phone Number
Nearest Available Power Source AT XING	
What other utilities are present? Gas Cable (add locations to sketch) Petroleum Water Other	Telephone Fiber Optic Cable Sanitary Sewer
Is(are) there potential utility conflict(s) Yes No	Unknown
Comments:	
}	
	-
	·

Potential Red Flags / Project Challenges
Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known):
$N_{\mathfrak{d}}$
Crossing Consolidation or Closure:
$N_{\mathfrak{d}}$
Real Estate or ROW:
JES RR-\$60 C ON MAIN
Culverts / Drainage / Ballast Conditions:
No
Roadway and/or Sidewalks:
YES
Circuitry (e.g. reaches out to other crossings, specific needs, etc.):
NO SHOULD CONSIDER DAXING
Environmental:
Other:
DAKOTA ST MAY NOT BE PUBLIC 15 USED BY PUBLIC
LONGER PE TIMETABLE WILL BE NEEDED

Diagnostic Team Recommendations	
/	. Quadrants Needed
☑ Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	
AFLS / Gates	NE, SW
AFLS / Gates / Cants	•
Bells / number	2
☐ Upgrade circuitry / type  ☑ Sidelights  ☐ V →	Sul and Su allich and its
✓ Sidelights NC *	SW-FOR S.B TRAFFIC ON UNION
✓ Install/Replace curb	
	Sval
Bungalow placement & offset from rail & highway  Other (define) WATER LINE RELOC	ATION POSSIBLE  DAKOTA IS CONFIRMED
Comments: 1200 AADS - 15 POW OF	DAVOTA IS CONTIRMEN
VYGRUNG, A IT K.V.VI. OF	VAKOTA 13 WATTIATED
Walnale Devices	,
☐ Install/upgrade traffic signal preemption	
☐ No improvements needed	
Other (define)	1 61 A.15h 1164
CURB INSTALL IN NE QUA	IN EX PAVED AREA IN UNE STREET EDGE
Acknowledgement of Recommendations (each entity represented	
acknowledgement):	
MDF alma	N/ C
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GM/W/RESSELVATIONS DUC VIII The	Lord Trops
TO ROW ISSUES &	
PUBLIC/PRIVATE ROADWAY)	/
	.11.0
	NE QUAD
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/ /	A PAVENTENT
·	# :
	A:
1	H. PROPOSED CURB
· \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	(x)
	TWAS LINE OF DAKOTA ST.
·	7/
	$\mathcal{L}$
	X - PROPOSED GATE
	LOCATION
· ·	LUCATION



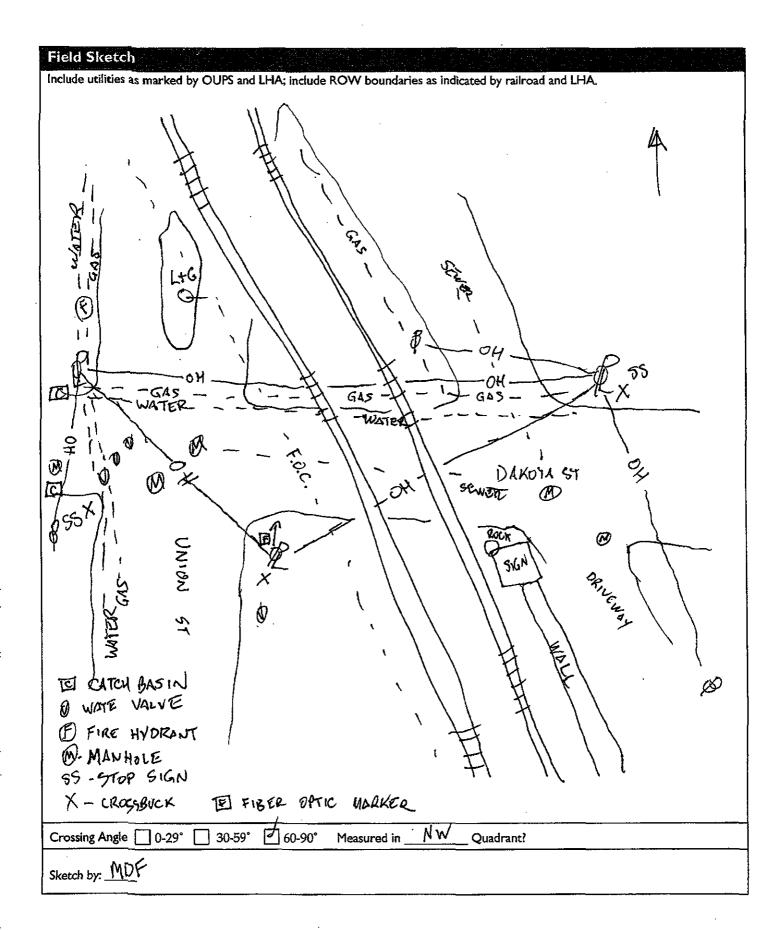


TABLE I

### **Clearing Sight Distances**

Distance (dT) Along Railroad from Crossing (ft)
240
360
480
600
720
840
960
1080
1200
1320
1440
1560
1680
1800
1920
2040
2160

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 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.



<sup>\*</sup> Neil Teaford, PS Engineering Technician

### City of Troy

City Hall 100 South Market Street Troy, Ohlo 45373-7303 Phone: (937) 339-2641 ext.367 FAX: (937) 339-9341 neit.teaford@troyhlo.gov

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