

Memo

To: Docketing Division

From: Thomas Persinger, Rail Project Specialist, Rail Division

Cc: PUCO Legal Department

Date: 9-19-2022

Re: PUCO Case No. 22-884-RR-FED- In the Matter of a Request for the Upgrade of Active Warning Devices at the Norfolk Southern Railway Company Grade Crossing, DOT# 544-661W at Main Street in Columbiana County, Ohio.

On March 21, 2022, the Ohio Rail Development Commission (ORDC) authorized funding for Norfolk Southern Railway Company (NS) to upgrade lights and gates at Main Street (DOT#544-661W) in Columbiana County, Ohio. The crossing was surveyed, on March 31, 2021, and was found to warrant the upgrade. The electric utility provider for this crossing is Ohio Edison – 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 \$27,017.00 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:

Norfolk Southern Railway Company
Kurt Young
Administrator, Highway Grade Crossing
Program
650 West Peachtree Street, NW Box 41
Atlanta, GA 30308

Norfolk Southern Railway Company
Cayela J. Wimberly
Grade Crossing Engineering Director
650 West Peachtree Street, NW Box 41
Atlanta, GA 30308

Eastman and Smith
Casey Talbott
One Seagate, 24th Floor
P.O. Box 10032
Toledo, OH 43699-0032

Ohio Rail Development Commission
Alan Bell
Manager, Grade Crossing Programs
1980 West Broad Street
Mail Stop #3140
Columbus, OH 43223

City of Columbiana
Lance Williard
City Manager
28 West Friend Street
Columbiana, OH 44408

Ohio Edison – First Energy

**OHIO RAIL DEVELOPMENT COMMISSION
INTER-OFFICE COMMUNICATION**

TO: John Williams, Transportation Director, PUCO
FROM: Allen Bell, Manager, Safety Section, ORDC
BY: James Tucker, Project Manager, ORDC *JT*
SUBJECT: Columbiana County, Main Street, Norfolk Southern
DOT#544-661W, PID#116125
DATE: September 16, 2022

The Ohio Rail Development Commission (ORDC) established a diagnostic survey at the subject location on March 31, 2021. The Diagnostic Team recommended that the crossing be upgraded to 12" LED Flashers. 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
Letter Agreement
PE Authorization

c: Jill Henry, Rail Division Chief, PUCO
Heather Hamilton, ORDC
ORDC Project Manager (file)



Rail Development Commission

Mike DeWine, Governor
Jon Husted, Lt. Governor

Scott Corbitt, Chair

September 16, 2022

Mr. Kurt Young
Public Projects Engineer
1200 Peach Street NE, Box 123
Atlanta, Ga. 30309

RE: Warning Device Improvements
Columbiana County, Main Street, DOT#544-661W
PID#116125, RR Ref #10.0111

Dear Mr. Young:

The estimate dated September 14, 2022, for the referenced project has been reviewed and is acceptable. Norfolk Southern (NS) may proceed with the construction of the proposed 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 from ORDC is limited to \$27,017.00. 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 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 James Tucker, ORDC, email james.tucker@dot.ohio.gov and to the Public Utilities Commission of Ohio at thomas.persinger@puco.ohio.gov. 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 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

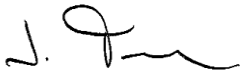


changes, etc. which are not included in the approved plan and estimate and secure approval of same before the work is performed.

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.
5. NS shall send copies of each partial bill to ORDC.Invoice@dot.ohio.gov. Please find the enclosed ODOT Purchase Order to reference when billing.
6. 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.
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 black ink, appearing to read 'J. Tucker', with a stylized flourish at the end.

James Tucker
Project Manager

C: John Williams, Director, Transportation Department, PUCO
Jill Henry, Rail Division Chief, PUCO
Heather Hamilton, ORDC
ORDC (file)

**Detailed Estimate for Grade Crossing Warning Devices**

City/State: COLUMBIANA, OH

Road: MAIN ST.

MilePost: PC-59.73

DOT/AAR: 544661W

State Proj. No.: PID 116125

County: COLUMBIANA

S&E Proj. No.: 10.0111

File Number:

Man Days: 18

Purchases - Others		
Meals and Lodging:	\$2,699.18	
Rental of Equipment:	\$3,689.77	
(2 Trucks, 1 Backhoe w/ Trailer and 1 Pipe-Pusher for 3 Days)		
Construction Supervision Vehicle:	\$564.41	
Purchases - Other Total:		\$6,953.36
Material And Additives		
Material Cost:	\$4,490.00	
Sales and Use Tax:	\$359.00	
Material Handling Freight:	\$448.98	
Material Total:		\$5,297.98
Labor And Additives		
Labor Cost:	\$6,354.00	
(6 man crew at \$2,118.00 a day for: 3 days)		
Payroll Tax & Overheads:	\$5,417.42	
Preliminary Engineering:	\$1,138.59	
Construction Supervision:	\$1,856.00	
Labor Total:		\$14,766.01
	Project Cost:	\$27,017.35
	Scrap / Salvage Credit:	\$0.00
	Project Total:	\$27,017.00

Estimated on: 14-Sep-22

Estimated by: wgtg9

Estimate valid for 1 year from date of estimate



Highway Crossing Signalization Program - Material List

Do not substitute items without permission from S & E Engineering

City:	COLUMBIANA
Road:	MAIN ST.
Mile Post:	PC-59.73
Drawing Number:	24020597
State ProjectNumber:	PID 116125
County:	COLUMBIANA
A A R Number:	544661W
Project Number:	10.0111
File Number:	
New File Number:	CX1114629
WBS:	F-07903
Store Number:	
Supervisor:	J.B. JOHNS
Tax Code:	3500
Vendor to supply the following copies after pricing: 1 Set - Material Management with original Invoice 2 Sets - with plans shipped in car with material 1 Set - S&E Gen. Supt. Construction w/copy of invoice	

Qty.	Class-Item-CD	UI	Price per Item	Total Price	Item Description	Quantity Shipped	Quantity Installed			Quantity Returned (Credit)	Special Instructions
							Date Quan.	Date Quan.	Date Quan.		
4	670-092155-4	EA	\$176.00	\$704.00	LAMP ASSY, LED GATE ARM KIT (INCLUDES 3 LAMPS COMPLETE WITH CABLES AND MTG. HARDWARE) RECO #: 9298-1120						
2	670-005058-4	EA	\$1,892.88	\$3,785.76	LAMP ASSY, LED, 5" MAST BACK TO BACK LIGHTS (IPN: 042003- L487XNS)						

Total Material: \$4,489.76



Rail Development Commission

Mike DeWine, Governor
Jon Husted, Lt. Governor

Scott Corbitt, Chair

March 21, 2022

Mr. Kurt Young
Norfolk Southern
Administrator Grade Crossing Program
1200 Peachtree Street NE, Box 123
Atlanta, Ga. 30324

RE: Grade Crossing Warning Device Improvements
Columbiana County, Main Street, DOT# 544-661W, PID# 116125.

Dear Mr. Young:

A diagnostic review was held at the above grade crossing on March 31, 2021. As a result of the review, the crossing will be upgraded to 12" LED Flashers only.

Norfolk Southern (NS) 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 7), if any, made by the team regarding 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: John Williams, Director, Transportation Department, PUCO
Jill Henry, Rail Division Chief, PUCO
Heather Hamilton, ORDC
ORDC (file)





Rail Development Commission

Mike DeWine, Governor
Jon Husted, Lt. Governor

Scott Corbitt, Chair

January 24, 2022

Kurt Young
Norfolk Southern Corporation
650 West Peachtree Street., NW Box 41
Atlanta, GA 30308

Subject: Grade Crossing Warning Device Improvements, PID 116125
Columbiana County, Main Street, DOT# 544661W

Dear Mr. Young:

A diagnostic review was conducted at the subject grade crossings on 3/31/2021. Based on the review, a LED upgrade will be provided per the recommendations of the diagnostic review team.

This project shall be completed in compliance with Agreement No. 17450, dated December 19, 2012, entered into by the State of Ohio and Norfolk Southern Railway Company (NS) and incorporated as if fully rewritten herein. This construction shall also meet the general terms and conditions under the Fixing America's Surface Transportation Act and subsequent amendments and the State of Ohio's Federally Funded Warning Device Program.

Preliminary engineering (PE) and construction costs shall be borne one hundred percent (100%) by ORDC. Reimbursable costs will be limited by the ORDC based on approved estimates and bid tabulations, if applicable. These limits will be quantified by the ORDC in its construction authorization to NS and may be amended by the ORDC based on revised estimates and bid tabulations.

This Letter Agreement and the approved plans constitute the scope of the project. NS shall notify ORDC in writing of any changes in the scope of work which are not in the approved plans and estimates and secure approval in writing of same before the work is performed.

PE will not be commenced by NS prior to ORDC issuing a PE authorization. PE will be submitted by NS to ORDC within ninety (90) days or other time specified by ORDC in the PE authorization. Construction will not be commenced by NS prior to ORDC issuing a construction authorization. Construction will be completed by NS within nine (9) months or other time specified in the time specified by ORDC in the construction authorization.



Please indicate your acceptance of the terms and conditions of this Letter Agreement by signing and returning one (1) copy to me at the address listed above and retain a copy for your files. This Agreement may be executed in one or more counterparts, each of which shall be deemed to be a duplicate original, but all of which taken together shall be deemed to constitute a single Agreement.

Sincerely,



Matthew Dietrich
Executive Director

Norfolk Southern:

By: 

Title: VP ATC

Date: 2/11/2022

COL Main Street NS PID 116124 DOT 544661W

3/31/2021

Crossing at a glance:

ORDC Notes:

Please Sign In

Jim Tucker

ORDC

Name Joseph Johns Title CS SUPERVISOR

Organization NS

4123020279

Phone Number

joseph.johns@nscorp.com

Email

Signature

JAMES Dahlen

FRA

Name

Title

Organization

202-493-0571

Phone Number

james.dahlen@dot.gov

Email

Signature

FRANK Frey

FRA

Name

Title

Organization

202-738-2195

Phone Number

frank.frey@dot.gov

Email

Signature

SHAWN Zurfley

DUCO

Name

Title

Organization

Phone Number

Email

Signature

Jesse Wilson

Columbiana

Name

Title

Organization

Phone Number

Email

Signature

William Myers

Columbiana

Name

Title

Organization

Phone Number

Email

Signature

Garrett Bedell

NS

Name

Title

Organization

Phone Number

Email

Signature

Kevin Buettner

OMEGA

Name

Title

Organization

740-439-4471

Phone Number

kevinb@omegadistrict.org

Email

Signature

Crossing at a glance:

ORDC Notes:

Please Sign In

Shawn McLaughry	Maintainer	NS
Name	Title	Organization
3308312198		Shawn McLaughry
Phone Number	Email	Signature
Don Mook	Superintendent	Columbiana Schools
Name	Title	Organization
3304825352	don.mook@columbianaschools.org	
Phone Number	Email	Signature
Name	Title	Organization
Phone Number	Email	Signature
Name	Title	Organization
Phone Number	Email	Signature
Name	Title	Organization
Phone Number	Email	Signature
Name	Title	Organization
Phone Number	Email	Signature
Name	Title	Organization
Phone Number	Email	Signature

Reason for Request: **Constituent-FRA**
(e.g. formula, accident, constituent, etc.)

Date: 3/31/2021

Location Data		
Street or Road Name: Main Street		
County: Columbiana	Township:	US DOT No.: 544661W
City (in or near): Columbiana	Railroad Name: NS	RR Milepost: 59.73
Safety Data (Obtain crash reports, if possible)		
	Initial Information (from database)	Revised
Number & dates of vehicle crashes in previous 5 years:	2 (1/17 & 2/20)	
Number & dates of pedestrian/bicycle crashes in previous 5 years:		
Hazard Ranking: 17	Date Run: 03/19/2021	

Existing Traffic Control Devices		
Type of Warning Devices	Installed?	Quantity/Comments
HIGHWAY		
Advance Warning Signs (condition?)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2 / Good condition
'Stop' Signs	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
'Stop Ahead' Signs	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Pavement Markings (condition?)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2 / need refreshed
Dynamic Envelope Markings (condition?)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Illumination	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
'No Turn' Signs (highway/passive)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Barriers/fencing (pedestrian/bicycle)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
LOOK Sign	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Do Not Stop On Track Sign	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
RAILROAD		
Crossbucks	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Crossbucks – assembly with Stop	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Crossbucks – assembly with Yield	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Mast-Mounted Flashing Lights	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4 PAIR
Cantilever Flashing Lights	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Number: Length:
Side Lights	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
LED or Incandescent Lights? Size?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12" incandescent
Automatic Gates	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Number: 2 Length:
Bells	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Number: 2
Sidewalk/Pedestrian Gate Arms	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Number: 2 Length:
'No Turn' Signs (railroad/active)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Is crossing flagged by train crew?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
OTHER	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Railroad Data		
Type of Train: <input checked="" type="checkbox"/> Freight <input type="checkbox"/> Intercity Passenger <input type="checkbox"/> Transit <input type="checkbox"/> Shared Use Transit <input type="checkbox"/> Commuter <input type="checkbox"/> Tourist/Other		
Railroad Characteristics	Initial Information (from database)	Revised
Total trains per day	48	
<1 per day? Trains per week	-	
Day thru trains	21	
Night thru trains	25	
Switching	2	
Total number of tracks	2	
Number of main tracks	2	
Number of other tracks	-	
Maximum train speed	60	
Typical train speed	40-50	
Amtrak	-	2
Are there other track(s) crossing this same roadway within 100ft of this crossing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
If yes, Crossing DOT# (if different) _____		
If yes, distance _____ (take measurement between track centerlines at closest point along roadway)		
If multiple tracks, can two trains occupy crossing at the same time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Can one train block the motorists' view of another train at the crossing? <input checked="" type="checkbox"/> Yes (explain below) <input type="checkbox"/> No		
Can one or more tracks be eliminated through the crossings? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Comments: 38.5' between tracks		
Circuitry: <input checked="" type="checkbox"/> Constant Warning Time <input type="checkbox"/> Motion Detection <input type="checkbox"/> AFO <input type="checkbox"/> PTC <input type="checkbox"/> DC <input type="checkbox"/> Other _____		

GCP 3000 unit

Roadway Data		
Local Highway Authority: City of Columbiana		
Roadway Characteristics	Initial Information (from database)	Revised
Average Daily Traffic	4,228 (2010)	571 (TMS) ?
Highway Paved	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Roadway Surface: <input checked="" type="checkbox"/> Blacktop <input type="checkbox"/> Gravel <input type="checkbox"/> Concrete Other _____		
Roadway width (paved/travelled way): 31'N ft / 30's		
Number of Highway Lanes	2	
Urban or Rural	Rural	
Vehicle Speed: n/a MPH	25 mph	
School Bus Operation: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Amount 5		
Location of nearby schools: Heartland School 1/4 North of location		
Hazardous Materials Trucks: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Amount (from FRA) 8% LHA verified/changed?		
Shoulders: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Is the Shoulder Surfaced? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, shoulder width: 10 ft. North side only		
Is there existing guardrail along the roadway in crossing vicinity? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Crossing Angle <input type="checkbox"/> 0-29° <input type="checkbox"/> 30-59° <input checked="" type="checkbox"/> 60-90° Measured in _____ Quadrant?		
Quadrant NW Curb & Gutter:	Quadrant SE Curb & Gutter:	
<input type="checkbox"/> Functional (Curb height = 4" or more)	<input type="checkbox"/> Functional (Curb height = 4" or more)	
<input type="checkbox"/> Non-functional (Curb height = less than 4")	<input type="checkbox"/> Non-functional (Curb height = less than 4")	
<input checked="" type="checkbox"/> None	<input checked="" type="checkbox"/> None	
Is there a nearby intersection that could cause queuing over the crossing? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
If yes, distance 228' EAST Railroad St.		
Is this intersection signalized? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Are there signals currently interconnected with the existing crossing warning devices? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Is there a 'Do Not Stop on Track' sign? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
If yes:		
Improvement type _____ Lead Agency _____ Timeline/completion _____		

Pedestrian & Bicycle Data

Regular pedestrian usage: ☒ Yes ☐ No Volumes: ☐ Occasional ☐ <20 ☒ 20-60 ☐ >60

Is sidewalk present in the approach? ☒ Yes ☐ No Quadrants:

Does crossing surface accommodate pedestrians? ☒ Yes ☐ No

Both sides of roadway? ☒ Yes ☐ No If no, which side is paved?

Pedestrian generators in close proximity (e.g. schools, sports/entertainment venues)? ☒ Yes ☐ No

Comments: *Downtown Columbiana*

Regular bicycle usage: ☒ Yes ☐ No

☒ Roadway ☐ Dedicated Lane (on street) ☐ Dedicated Path (off street) ☐ Shared Use (pedestrian/bicycle) Path

☒ Bikes must use sidewalk

Future plans for pedestrian or bicycle routes? ☐ Yes ☒ No

Comments:

Utility Information

Is commercial power available? ☒ Yes ☐ No

Utility Provider (Company Name) *Columbiana Power*

Nearest Available Power Source *@ crossing Pole # 2-3520*

What other utilities are present? ☒ Gas ☐ Cable ☒ Telephone ☐ Fiber Optic Cable (add locations to sketch)

☐ Petroleum ☒ Water ☒ Sanitary Sewer ☐ Other

Comments:

Surface

Surface review form completed? ☐ Yes ☒ No

Sight Preview (REFER TO TABLES)

If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table 1) ☐ Yes ☒ No

Is stopping sight distance adequate? (See Table 2) ☒ Yes ☐ No If no, which quadrant? _____

When considering recommendations for bicycle treatments:

Bicycle sight distance adequate? ☒ Yes ☐ No If no, which quadrant? _____

When considering recommendations for pedestrian treatments:

Pedestrian sight distance adequate? ☒ Yes ☐ No If no, which quadrant? _____

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

Culvert / Drainage / Ballast Conditions:

culvert in the SW Quad appears to have failed.
city would like to work with NS to get fixed

Roadway and/or Sidewalks:

N/A

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

multiple overlaps = Elm St + Pittsburgh St.

Environmental:

N/A

Utilities:

unknown

Other:

Potential Closure

Is it the consensus of the Diagnostic Review Team that this is a potential closure project?

~~YES~~ NO

Explain reasons: main street for Columbianna

Diagnostic Team Recommendations

<input type="checkbox"/> No improvements needed	Quadrants Needed
<input checked="" type="checkbox"/> Install/upgrade active devices	
<input type="checkbox"/> Automatic Flashing Lights (AFLS)	
<input type="checkbox"/> AFLS / Cants	
<input type="checkbox"/> AFLS / Gates	
<input type="checkbox"/> AFLS / Gates / Cants	
<input type="checkbox"/> Bells / number	
<input type="checkbox"/> Upgrade circuitry / type	
<input type="checkbox"/> Sidelights	
<input checked="" type="checkbox"/> LED Upgrades	12" LED upgrades both Quads
<input type="checkbox"/> Guardrail Needed	
<input checked="" type="checkbox"/> Install/Replace curb	both Quads to make muted compliant
<input type="checkbox"/> Bungalow placement & offset from rail & highway	
<input checked="" type="checkbox"/> Other (define)	SEE Below
Comments: Additional L upgrades could be discussed if South Elm street was to be closed. LHA to refresh pavement markings	
<input type="checkbox"/> Install/upgrade traffic signal preemption	
Other (define):	

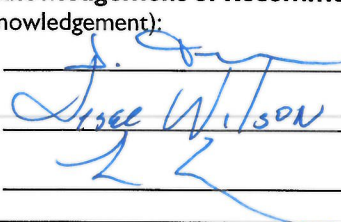
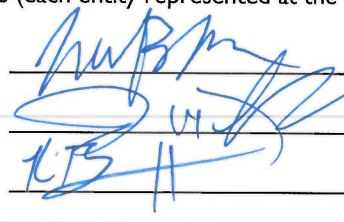
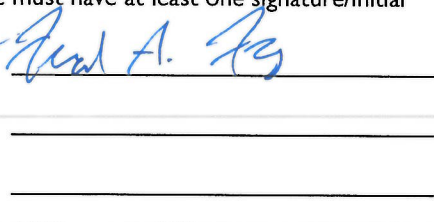
Diagnostic Team Recommendations (cont.)

PEDESTRIAN/BICYCLE Treatments (additional, not included above)

<input type="checkbox"/> Crossing Surface (specify)	<input type="checkbox"/> Sidewalk (specify)
<input type="checkbox"/> Detectable warning surfaces	<input type="checkbox"/> LOOK Sign (R15-8)
<input type="checkbox"/> Stop lines	<input type="checkbox"/> Illumination
<input type="checkbox"/> Dynamic envelop markings	<input type="checkbox"/> Channelization
<input type="checkbox"/> Path delineation	<input type="checkbox"/> Fencing/barriers
<input checked="" type="checkbox"/> Other Exit Red gates (Active)	

Comments:

Acknowledgement of Recommendations (each entity represented at the diagnostic must have at least one signature/initial acknowledgement):

Field Sketch (optional)

Include utilities as marked by OUPS and LHA; include ROW boundaries as indicated by railroad and LHA.

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.

Bicycle & Pedestrian Clearing Sight Distances

Clearing Sight Distance from Stop Position*											
Crossing of one track								Crossing 2 Tracks		Crossing 3 Tracks	
Train Speed	Car	Single-unit Truck	Bus	WB-50 Semitruck	65-foot Double Truck	Pedestrian ¹	Bicyclist ²	Pedestrian ¹	Bicyclist ²	Pedestrian ¹	Bicyclist ²
10	105	185	200	225	240	120	100	180	120	240	140
20	205	365	400	450	485	240	200	360	240	480	270
25	255	455	500	560	605	300	250	450	290	590	340
30	310	550	600	675	725	360	290	530	350	710	410
40	410	730	795	895	965	480	390	710	470	950	540
50	515	910	995	1,120	1,205	590	490	890	580	1180	670
60	615	1,095	1,195	1,345	1,445	710	580	1060	700	1420	810
70	715	1,275	1,395	1,570	1,680	830	680	1240	810	1650	940
80	820	1,460	1,590	1,790	1,925	950	780	1420	930	1890	1080
90	920	1,640	1,790	2,015	2,165	1060	870	1590	1040	2120	1210

*A single track, 90-degree, level crossing

¹ Walking 3.5 feet per second across tracks 15 feet apart, with a 2-second reaction time to reach a decision point 10 feet before the center of the first track, and clearing 10 feet beyond the centerline of the second track.

² Bicycling 8 miles per hour across tracks 15 feet apart, from a stopped position 10 feet before the center of the first track with an acceleration of 2.5 feet per second, and clearing 10 feet beyond the centerline of the second track on a bike of 6 feet length.

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Case No(s). 22-0884-RR-FED

Summary: Application In the Matter of a Request for the Upgrade of Active Warning Devices at the Norfolk Southern Railway Company Grade Crossing, DOT# 544-661W at Main Street in Columbiana County, Ohio. electronically filed by Mr. Thomas Persinger on behalf of PUCO/Rail Division