Public Utilities Commission of Ohio

Memo

To: Docketing Division

From: Jill Henry, Rail Specialist, Rail Division

Cc: PUCO Legal Department

Date: 4/13/17

Re: PUCO Case No. 17-998-RR-RCP- In the Matter of a Request for an Upgrade to the Active Warning Devices at the Norfolk Southern Railway Crossing, Vermilion Road DOT#524-037N, in Erie County, Ohio.

On September 27, 2016, the Ohio Rail Development Commission (ORDC) authorized funding for Norfolk Southern Railway to install a cantilever flashing light in the southeast quadrant and upgrade the remaining lights to LED lights at Vermilion Road DOT#524-037N, in Erie County, Ohio. The crossing was surveyed on April 7, 2016 and found to warrant the upgrades. The electric utility provider for this crossing is First Energy-Ohio Edison.

The project will be paid for with federal funds and is actual cost. The plans and estimates for the project in the amount of \$105,328.00 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 <u>railroad will be responsible</u> 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 Stephen Klinger Public Projects Engineer 1200 Peachtree Street NE Atlanta, GA 30309-3597

Norfolk Southern Railway Company Cayela Wimberly Director Grade Crossing Safety 1200 Peachtree Street NE Atlanta, GA 30309-3597

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

City of Vermilion Mayor Eileen Bulan 5511 Liberty Avenue Vermilion, Ohio 44089

City of Vermilion Tony Valeruis Service Director 5511 Liberty Avenue Vermilion, Ohio 44089

KS Associates Lynn S. Miggins City of Vermilion Engineer 260 Burns Road Suite 100 Elyria, Ohio 44035

First Energy-Ohio Edison

OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO: Randall Schumacher, Supervisor, Rail Division, PUCO

FROM: Cathy Stout, Manager, Safety Section, ORDC

BY: Eric Neff, Safety Manager, Safety Section, ORDC

SUBJECT: ERI - Vermilion Road, DOT # 524037N, PID 103770, NS Project 10.3130

DATE: April 5, 2017

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on April 7, 2016. The Ohio Rail Development Commission (ORDC) attended the review. The Diagnostic Team recommended the improvement of warning devices to flashing lights and roadway gates and cantilevers. 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 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: Jill Henry, Rail Division Specialist, PUCO ORDC Project Manager (file)



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

April 5, 2017

Mr. Stephen Klinger Norfolk Southern Public Projects Engineer 1200 Peach Street NE, Box 123 Atlanta, Ga. 30309

RE: ERI - Vermilion Road, DOT # 524037N, PID 103770, NS Project 10.3130

Dear Mr. Klinger:

The plan and estimate dated February 9, 2017, for the referenced project has been reviewed and is acceptable. The project is authorized for construction under the master agreement between Ohio Rail Development Commission, Public Utilities Commission of Ohio and Norfolk Southern (NS) executed on December 19, 2012. NS 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 \$105,328.00. 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 Eric Neff, ORDC, email: eric.neff@dot.ohio.gov and to Jill Henry the Public Utilities Commission of Ohio at email: jill.henry@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 Eric Neff at 614-752-0399 (telephone) or eric.neff@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.



www.rail.ohio.gov phone: 614.644.0306
IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY

- 5. NS will furnish two (2) copies of each partial bill to ORDC. 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,

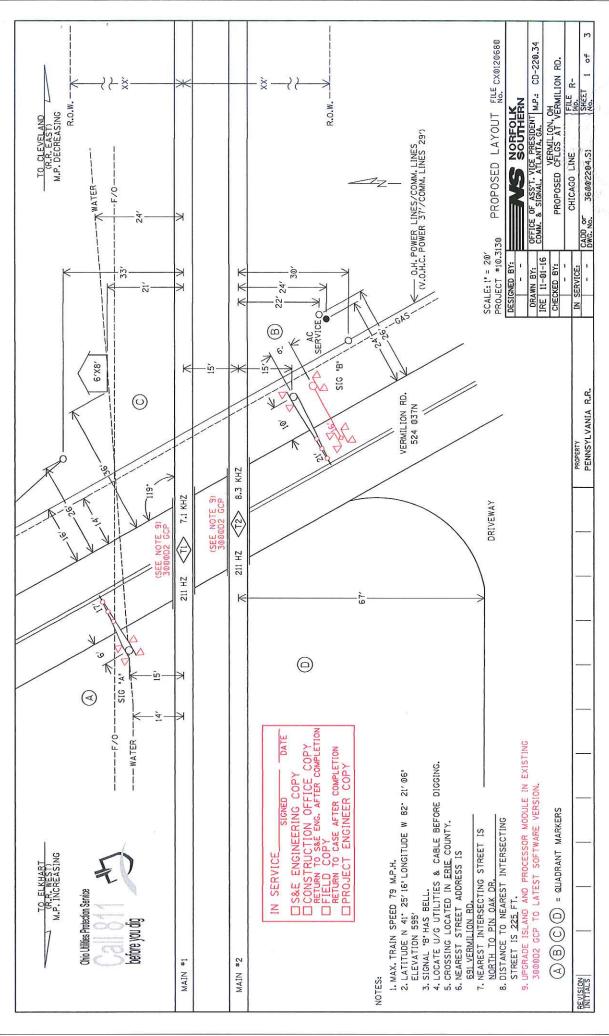
Eric T. Neff

Project Manager, Safety Programs

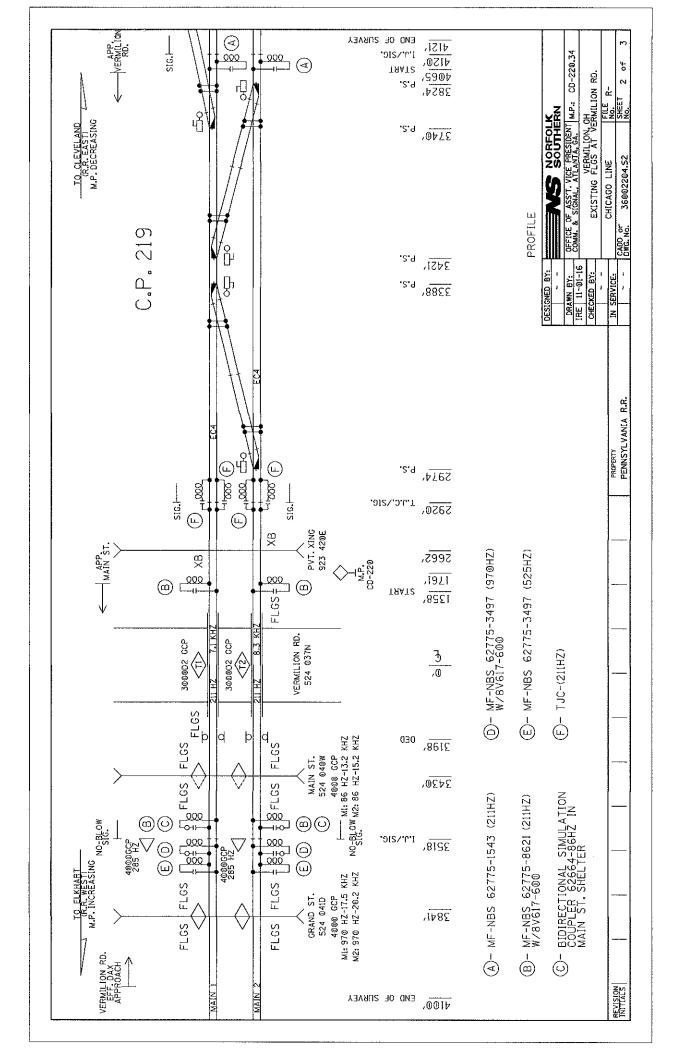
Attachments: Letter Agreement

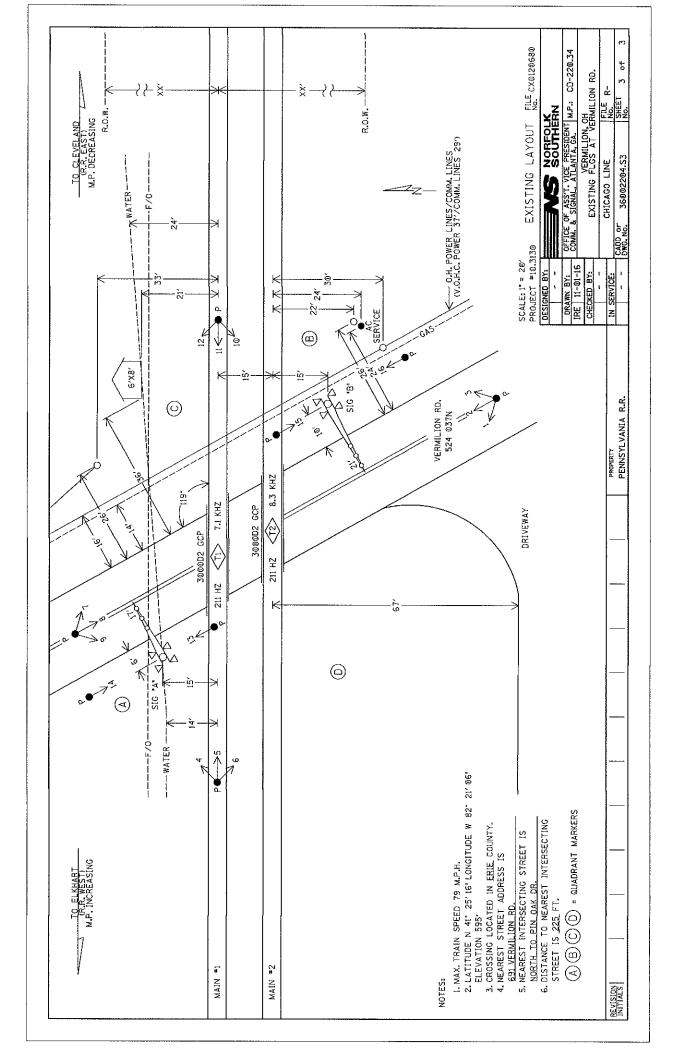
State of Ohio Purchase Order

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



Allioves As To StonALL Display CAPONT ONLY Warnes P. Son







Detailed Estimate for Grade Crossing Warning Devices

City/State: VERMILION, OH

Road: VERMILION RD

MilePost: CD-220.34

DOT/AAR: 524037N

State Proj. No.:

County: ERIE

S&E Proj. No.: 10.3130

File Number:

Man Days: 72

Purc	chases - Others	
Meals and Lodging:	\$9,848.56	
Rental of Equipment:	\$13,462.95	
(2 Trucks, 1 Backhoe w/ Trailer and 1 Pipe-Pusher for 12 Days)		
Construction Supervision Vehicle:	\$2,059.38	
Purchases - Other Total:		\$25,370.89
Mater	ial And Additives	
Material Cost:	\$21,634.00	
Sales and Use Tax:	\$1,731.00	
Material Handling Freight:	\$2,163.42	
Material Total:		\$25,528.42
Labo	or And Additives	
Labor Cost:	\$23,184.00	
(6 man crew at \$1,932.00 a day for:	12 days)	
Payroll Tax & Overheads:	\$19,766.68	
Preliminary Engineering:	\$4,705.91	
Construction Supervision:	\$6,772.05	
Labor Total:		\$54,428.64
	Project Cost:	\$105,327.95
	Scrap / Salvage Credit:	\$0.00
	Project Total:	\$105,328.00

Estimated on: 09-Feb-17

Estimated by: ndr3j

Estimate valid for 1 year from date of estimate



Norfolk Southern Railway

p

Highway Crossing Signalization Program - Material List

Do not substitute items without permission from S & E Engineering

City:	VERMILION
Road:	VERMILION RD
Mile Post:	CD-220.34
Drawing Number:	36002204
State ProjectNumber:	
County:	ERIE
A A R Number:	524037N
Project Number:	10.3130
File Number:	
New File Number:	CX0120680
WBS:	F-03656
Store Number:	S805
Supervisor:	L. R. DONNELLY
Tax Code:	
Vendor to supply the foll	Vendor to supply the following copies after pricing:
1 Set - Material Management with original Invo 2 Sets - with plans shipped in car with material 1 Set - S&EGen. Supt. Construction w/copy of	1 Set - Material Management with original Invoice 2 Sets - with plans shipped in car with material 1 Set - S&EGen. Supt. Construction w/copy of invoice

1	Cation: VERMII ION				OH S&E Proj No. 10 3130	AFE No · E 03656	Drawing No - 36002004	. 360	02204	i.			
Š	GII. VEINWIELOIA				200		2 2 3 3 4 5 1	3	10770				
ore I	ore No.: \$805				P.O.Number:	Date Required:	Date Shipped:	ed:		Vendor	Interrail	Vendor: Interrail Engineering, INC	NC
			9				Ċ		ong s	Quantity Installed	alled 2	Quantity	
ż	Class-Item-CD	5	per Item	Total Price	Total Price Item Description		පු ද	Shipped	Quan.	Quan.	Quan.	(Credit)	Special
m	670-360693-4	E	\$5.55	\$16.65	\$16.65 AAR/DOT NUMBER PLATE/DECAL, ORD DAY LEAD TIME. SUPPLIED BY S'TRAN.	ER PLATE/DECAL, ORDER 3 PER PROJECT. 60 SUPPLIED BY S'TRAN.	T. 60						
₩	670-119241-4	Æ	\$25.01	\$100,04	\$100.04 ARRESTOR, LIGHTNING HEAV 022585-1X	HTNING HEAVY DUTY CLEAR VIEW SAFETRAN	IRAN						
B	465-292929-4	<u>u</u>	\$4.13	\$1,032.50	\$1,032.50 CABLE, UG 5 COND. NO. 6 AWG SOLID COPPER CABLE TO MEET NS CORP. SPEC. FOR SIGNAL	G SOLID COPPER CABLE TO					:		
_	670-739076-4	Ā	\$2,788.52	\$2,788.52	CANTILEVER, WT/F ARM 16' W/WALKWAY KIT SAFTRAN #071294-16NS1	/WALKWAY KIT SAFTRAN							
ç	165-544477-4	E	\$2.61	\$365.40	\$365.40 CONDUIT, 4"x10" PVC, SCHEDULE 80 BELL CONE END, 1/2 PT. GLUE IN KIT 670-123298-4	PVC, SCHEDULE 80 BELL CONNECTOR AT . GLUE IN KIT 670-123298-4	F						
_	670-986650-4	EA	\$354.27	\$354.27	DISPOSAL, CONSTRUCTION DEBRIS AND CLEANING X'ING EQUIPMENT CONTAINER	EBRIS AND CLEANING X'IN(CD.						
4+	670-000003-4	EA	\$255.85	\$1,023.40	\$1,023.40 FILL/STONE #57, QUANITY IS E DELIVERY COST	QUANITY IS BASED ON TRUCK LOAD PLUS	St						
_	670-744631-4	EA	\$3,172.00	\$3,172.00	\$3,172.00 FOUNDATION, CFLS FOR SAFETRAN MODEL "WT/F" ARMS 12" TO 30' SINGLE MAST, DIXIE# DP4B-SM12-26-4, 5'10" CR 02- 205902	ETRAN MODEL "WT/F" ARM! 1P4B-SM12-26-4, 5'10" CR 02	3 12.					_	
71	670-005377-4	EA	\$338.00	\$676.00	\$676.00 GATE ARM, ALUMINUM, 17-24 GATE GUARD FOR GATE LIGH VERTICAL STRIPES.	MINUM, 17-24 FT, ARM ASSEMBLY, INCLUDES OR GATE LIGHT CABLE. HIGH INTENSITY PES.	DES						
-	670-123298-4	EA	\$361.54	\$361.54	\$361.54 KIT, HARDWARE SUPPLIES REQUIRED X'ING P'CKAGES. WEB CONNECTORS FOR SHUNT(8EA) TAPE, AMPS, P'GUM PAINT, SLEEVES, TAGS, GLUE, 100 EA WHITE TAGS, INE CAN BLUE MARKING PAINT ETC	EQUIRED XING P'CKAGES. I EA) TAPE, AMPS, P'GUM 100 EA WHITE TAGS,)NE CA	VEB						15
~	670-092155-4	EA	\$160.00	\$320.00	\$320.00 LAMP ASSY, LED GATE ARM KIT (INCLUDES 3 LAMPS COMPLETE WITH CABLES AND MTG. HARDWARE) REC #: 9298-1120	TT (INCLUDES 3 LAMPS) MTG, HARDWARE) REC #:	-8626						
	670-005054-4	Ą	\$921.25	\$921.25	\$921.25 LAMP ASSY, LED, 12" MAST 110 (L489XNS)), 12" MAST 1 WAY FRONT LIGHTS (IPN: 042003-	42003-						
ΛI	670-005057-4	EA	\$952.05	\$1,904.10	\$1,904.10 LAMP ASSY, LED, 4" CANT JURY ARM MAST (FRONT OR BACK) (IPN: 042003-L001534)	RY ARM MAST (FRONT OR B	ACK)						
_	670-005066-4	EA	\$959.37	\$959.37	\$959.37 LAMP ASSY, LED, 5" MAST 1 WAY BACK LIGHTS (IPN: 042003- L001493)	/AY BACK LIGHTS (IPN: 0420	-503						
_	670-005058-4	Ą	\$1,786.08	\$1,786.08	\$1,786.08 LAMP ASSY, LED, 5" MAST BACK TO BACK LIGHTS (IPN: 042003- L487XNS)	CK TO BACK LIGHTS (IPN: 0	42003-						

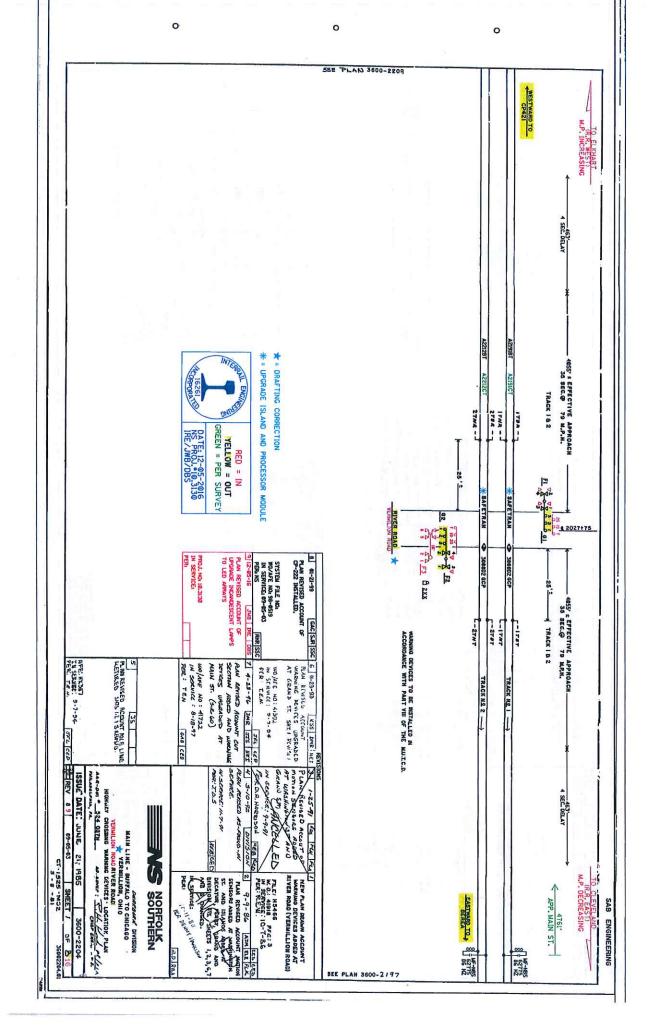
SEAL NUMBER	
APPROVED BY RAILROAD	
APPROVED BY STATE	

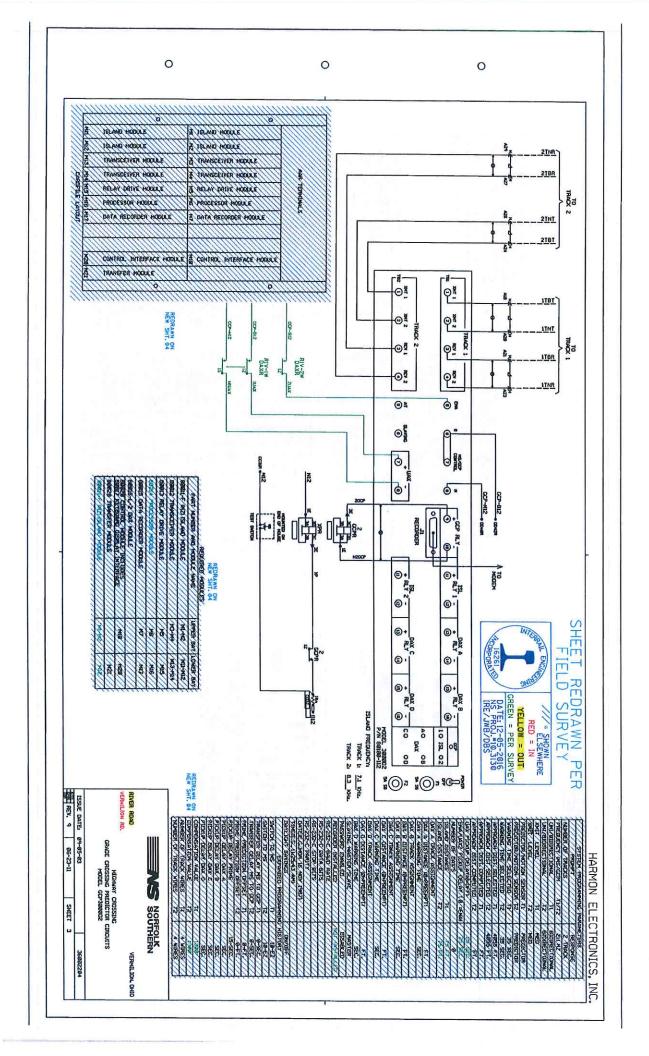
Market Ma	S&E Proj. No.: 10.3130	AFE No.: F-03656	Drawing No.: 36002204	4
No.: S805	P.O.Number:	Date Required:	Date Shipped:	Vendor: Interrail Engineering, INC

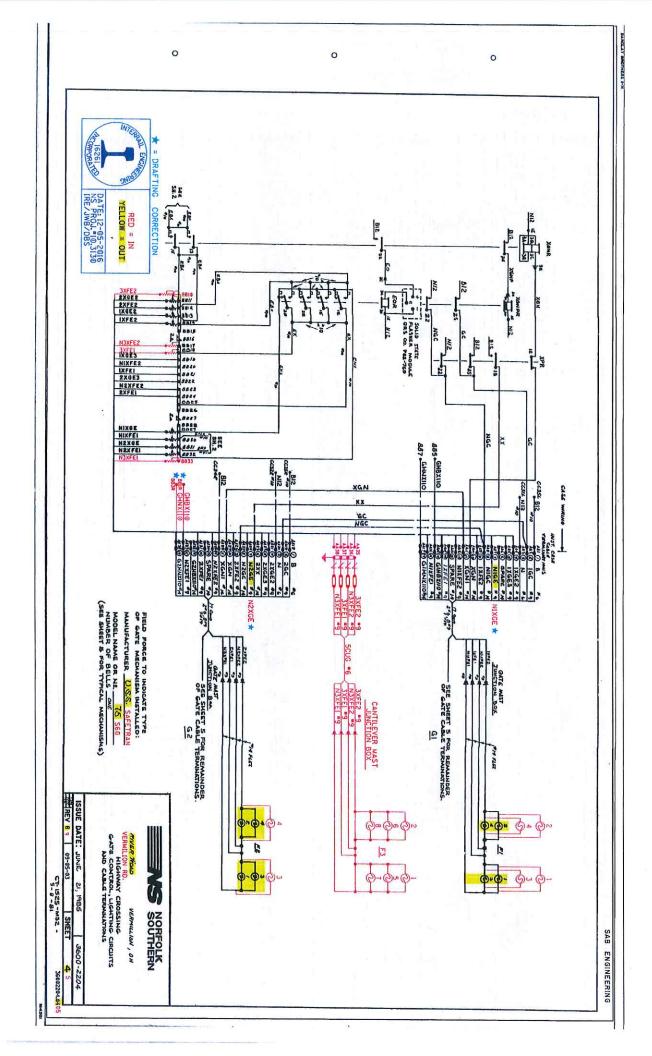
1											2
Class-Item-CD		5	Price per Item	Total Price	Total Price Item Description	Quantity	Our Date Quan.	Quantity Installed Ite Date Date Dann. Qu	alled Date Quan.	Quantity Returned (Credit)	Special
670-440826-4	4	EA	\$2.22	\$8.88	LINK, SAFETRAN 024620-1X INSL TESTING COMP 1 IN CENTER SIGNAL CIRCUITS CR 02-286662						
255-590880-4	4	EA	\$16.72		\$16.72 LOCK, AMERICAN LOCK MODEL H-10KA KEYED ALIKE TO PRIVATE KEYWAY D456 AND STAMPED "NS SIG"						
670-179911-4	4	EA	\$4,250.00	\$	\$4,250.00 MAST, 12" CANTILEVER, FOR 12'-20' WT/F ARMS, INCL. LADDER KIT (IPN: 071271-20NS)						
670-000001-4	4	Ą	\$726.23		\$726.23 MISC. EXPENSE, MATERAIL/FILL						
670-001355-4	4	EA	\$74.00	\$148.00	\$148.00 PACKAGE, HARDWARE SIGN 12 IN. (USE WITHWT/F MAST) MOUNTING, SERRMI A1250-8, HARMON @180004/0007,						
465-002899-4	9.4	EA	\$22.24		\$22.24 REEL, CABLE DISPOSABLE FOR CROSSING SIGNAL PACKAGES						
180-000029-4	46	EA	\$27.17	\$54.34	\$54.34 RESISTOR UNIT, 2 OHM ADJUSTABLE SAFETRAN NO. 029602- 6X FOR TRACK CIRCUITS CR 02-425807						
435-805560-4	4	A	\$2.78		\$5.56 SAND, 25LB BAG FOR CABLE ENTRANCE INTO THE SHELTER						
670-554843-4	48	EA	\$77.05	\$154.10	\$154.10 SIGN, 2 TRACK SIGN, HIGH INTENSITY, SAFETRAN #035207-2HX						
670-016346-4	64	EA	\$143.23	\$286.46	\$286.46 SIGN, X-BUCK, HI-INTENSIVE REFLECTIVE FRT. & BACK FOR ALL STATES, SAFETRAN# 035200-91X						
670-397239-4	9-4	EA	\$40.23	\$40.23	\$40.23 SIGN, CROSSING ENS MALFUNCTION ASSEMBLY FOR 12" MAST, SAFETRAN #117216						
670-330382-4	2-4	R	\$18.06	\$18.06	\$18.06 TAPE, THOR 3" DURATEC, ORANGE 1000' LENGTHS. "WARNING STOP DIGGING"						
670-478560-4	4	≅	\$20.56	\$82.24	\$82.24 TERMINAL BLOCK, ERICO 4 POST P/N B2700A2C1WH W/HARDWARE LESS LIGHTNING ARRESTOR						
465-458198-4	4	臣	\$0.20	\$40.00	\$40.00 WIRE, NO.16, 1 CONDUCTOR, CASE, FLEXIBLE, 19 STRAND, 2/64 IN. INSULATION						

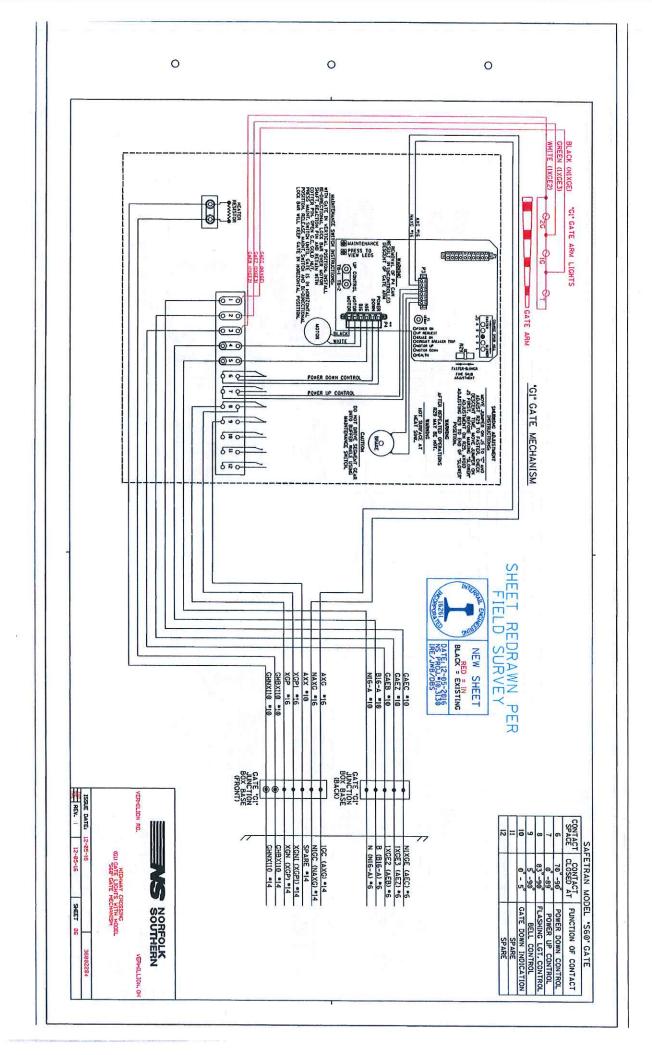
Total Material: \$21,634.18

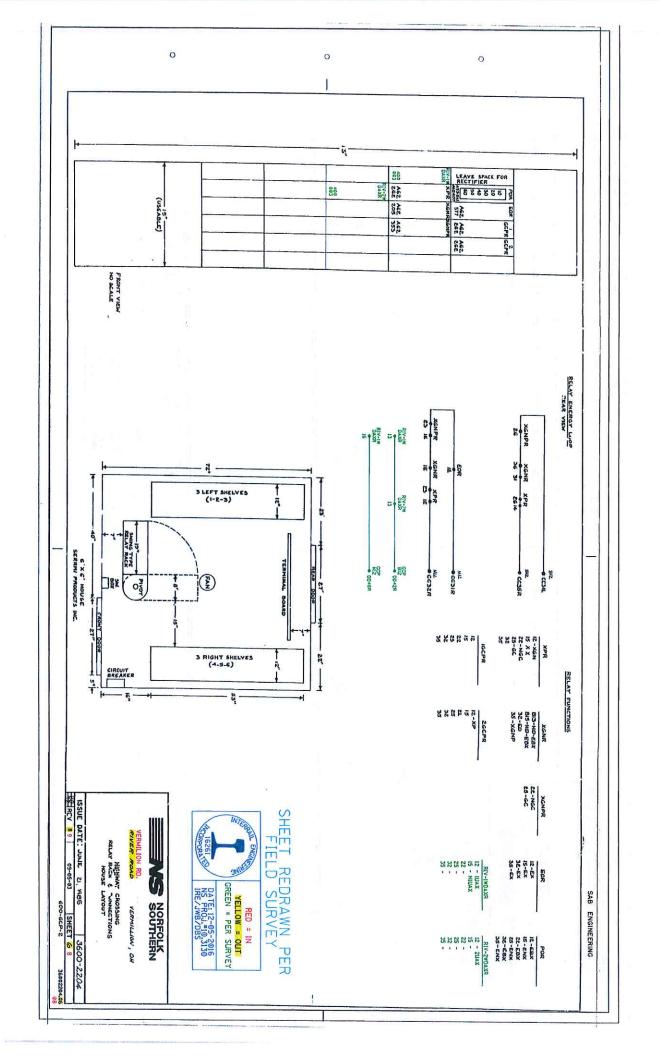
APPROVED BY RAILROAD	PROVED BY STATE
AILROAD	APPROVED BY RA

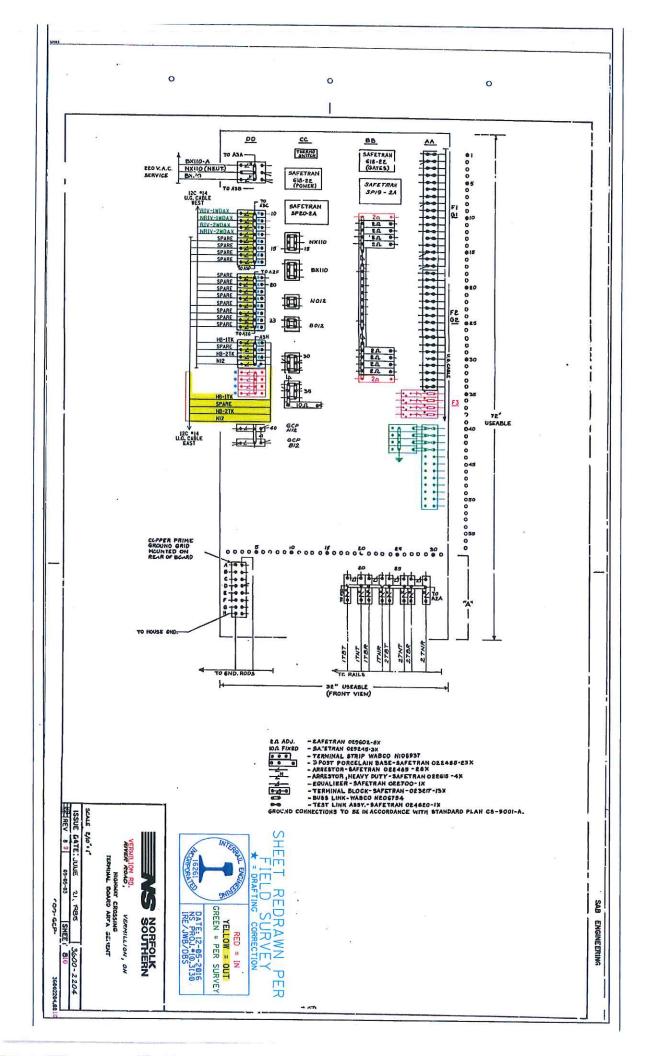














Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223 John R. Kasich, Governor • Mark Policinski, ORDC Chairman

August 24, 2016

Norfolk Southern Railway Company Mr. Stephen Klinger Administrator Highway Grade Crossing Improvements 1200 Peachtree Street Atlanta, GA 30309-3597 1016 SEP 26 PM 1:57

ORDC

Subject:

Grade Crossing Warning Device Modifications

Erie County, Vermilion Road, DOT # 524037N, PID 103770

Dear Mr. Klinger:

A diagnostic review was conducted at the subject grade crossing on 4/7/16. As a result of the review, the devices will receive LED upgrades and cantilevered flashing lights.

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 Moving Ahead for Progress in the 21st Century Act (MAP-21) 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 R. Dietrich Executive Director



www.rail.ohio.gov

phone: 614.644.0306

IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY

Norfolk Southern:

By: Juny & onskel

Title: General Manager

Date: 8/3//6

X:ltr agreements\ERI Vermilion Rd PID 103770 NS



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

September 27, 2016

Mr. Stephen Klinger Public Projects Engineer 1200 Peachtree Street, Box 123 Atlanta, Ga. 30309

RE:

Marion County, Silver Street, DOT 481538V, PID 103769 Marion County, SR 739, DOT 481532E, PID 103759 Erie County, Vermilion Road, DOT 524037N, PID 103770

Dear Mr. Klinger:

Diagnostic reviews were held at the above grade crossings. These crossings have been recommended for certain upgrades in the diagnostic surveys. Please take note to these recommendations individually.

NS is authorized to proceed with the site plans and cost estimates (PE) for these projects. 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 ORDC is not requesting that the PUCO issue an Order at this time. When the ORDC receives the PE it will be evaluated and a construction-only Order will be requested from PUCO. Please submit the PE to ORDC within 90 days of receipt of this letter.

The diagnostic review forms are attached. Please note any recommendations for each crossing in the survey, 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 Joe Reinhardt. He can be reached at (614) 644.0291, or Joe.Reinhardt@dot.state.oh.us, if you have any questions.

Sincerely,

Jøseph N. Reinhardt Project Manager

C:

Jill Henry, PUCO ORDC (file)



www.rail.ohio.gov phone: 614.644.0306

IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY

Ohio Rail Development Commission Mail Stop 3140, 1980 W. Broad Street, Columbus, OH

High Hazard Crossing With Active Warning Devices						
Street Name: Vermillion Rd.	·	County: ERI				
LHA: City of Vermillion		USDOT#: 524037N				
Nearest City: City of Vermillion Hazard Rank: 1						
Roadway Information						
Posted Speed Limit: None Listed.						
ADT: 2441 (2012)						
Railroad: Norfolk Southern Number of Tracks: 2						
Train Count: 55 Speed Over Crossing: 79						
Storage Distance (Ft.): 1030	Train Detection Type: C	WT				
	Accidents					
Accident Factors	3 of Accidents in Last 5 Y	ears:				
	O of Fatalities in Last 5 Y	ears:				
Accident Date	8/2/2014	6/29/2014	6/17/2014			
Accident Sate			Moving over			
Position of Accident	Moving over Crossing	Moving over Crossing	Crossing			
	Rail equip. struck by	Rail equip. struck by	Rail equip. struck			
Circumstance highway user highway user by highway user						
Visibility/Time of Day Day Day						
Weather Conditions Clear Clear Clear						
Crossing Interconnect. No No Yes						
Crossing Illuminated Yes Yes Yes						
Drove Around Train No No No						
Highway User Action Drove around the gate Proceeded The gate						
Alcohol/Drug Related?						
Driver Speeding? Other Notes: 8/1/2014: NS Train Struck a Hwy-user that failed to yield at a crossing. 6/29/2014: MOW						
Other Notes: 8/1/2014: NS Train Struct equipment did not stop at crossing and struck by MOW equipment.	struck a vehicle. 6/27/20	14: Driver drove around	gate and was			
Recommendations: \South side-add (antileur assy. v) 17563						
Recommendations: TSOUTH 5: De-add (antileur assy. v) 175 hrs OLOC [Chasing God directors) and LEDs should replace all lights.						
CITY & South bound advance works size should be replaced L refresh power morting around crossing City Mayor could investigate diveway loop decreves for 600 squid -7 connect up hidden differency sigh of north side of crossing						
Total Dome Gorno	marting around	CLASSID				
city Mayor could in 6000 yourd -7 counce	westigate drue, or ut widden d.	way loop decter howay sigh d	ors for			
of.	crossin					

County: ERI Route: Vermillion Rd. DOT#: 524037N Date: 4/7/2016 **Existing Traffic Control Devices** Type of Warning Devices Installed? **Quantity/Comments** Advance Warning Signs (condition?) Yes No SB BAd NB BOOD 'Stop' Signs Yes (Ng) 'Stop Ahead' Signs Yes (No) Pavement Markings (condition?) (Yes No Crossbucks (fes) No Number of Tracks Signs (No) Yes Inventory Tags Yes No Interconnected Highway Traffic Signal Yes No Mast-Mounted Flashing Lights (Yes علا Cantilever Flashing Lights Yes (No Number: Length: Side Lights Yes (N) **Automatic Gates** Yes No Number: Length: Bells Yes No Number: Sidewalk Gate Arms (N) Yes 1 'No Turn' Signs Yes (N) Illumination **(** 乙, No is crossing flagged by train crew? (No) Yes Other Yes No

Railroad Characteristics	Initial Information (from database)	
Total trains per day	55	Revised
< I per day		
Day thru trains	18	
Night thru trains	20	
Daytime switching movements	17	
Nighttime switching movements	0	
Total number of tracks	2	
Number of main tracks	2	
Number of other tracks		
Maximum train speed	79	
Typical train speed		
Amtrak	. 1	
If multiple tracks, can two train Can one train block the motor Can one or more tracks be elin	is occupy crossing at the same time? Yes No ists' view of another train at crossing? Yes (Explain minated through the crossing? Yes (No)	
Are there other track(s) crossi If yes, Crossing DOT #(if di	ng this same roadway within 100 ft of this crossing	. 🔾
	2	t closest point along roadway)

County: ERI Route: Vermillion Ro	d. DOT#:	: 524037N Da	rte: 4/7/2016			
Roadway Data						
Local Highway Authority: City of Vermillion	1					
Roadway Characteristics	Initial Information	ı (from database)	Revised			
Average daily traffic 2441 (2012)						
Highway paved	Yes X No		Yes No			
Roadway Surface: Blacktop Gravel Con	crete Other	. ,				
Roadway width:ft. 24"						
Number of highway lanes	2					
Urban or Rural	Urban					
Vehicle Speed: MPH	Not Listed.		35			
School Bus Operation: No	Yes X Amount_	13				
Hazardous Materials Trucks: No Y	res X Amount					
Shoulders: No Yes						
Is the shoulder surfaced? No	Yes		·			
Is there existing guardrail along roadway in	crossing vicinity? No	Yes				
ls stopping site distance adequate	e? (See Table 2) Yes	No If no, deficie	nt approach(es)			
Quadrant Nw Curb and Gu	tter:	Quadrant S€	_ Curb and Gutter:			
Functional (Curb height = 4" or more)		· ·	eight = 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 ca	use queuing over the cr	rossing? (No Ye	s			
If yes, Street Name						
Distance	-					
Is this intersection signalized? No	Yes					
Are the signals currently interconnected	-	ng warning devices? N	lo Yes			
Is there a 'Do not Stop on Track' sign?						
Is a roadway improvement project (e.g. wind this location in the foreseeable future?		y new or upgraded trai	itic signal, sidewalk) planned at or near			
If yes,						
Improvement type Surface Timeline/completion 2019 - 201	Lead A	gency Vermilio				
I interiner completion 2014 - 200						
Is it the consensus of the Diagnostic Revie	w Team that this is a por	tential closure projec	No Yes			
Explain reasons:						
Type of Development						
Open Space Institutional		Location of nearby so	chools:			
Industrial Commercial						
Residential						

County: ERI	Route: Vermillion Rd.	DOT#: 524037N	Date: 4/7/2016	200 A W. S. W. S. W.
Potential R	ed Flags / Project Challeng	es		
A COLUMN TO THE PARTY OF THE PA	eemption (include traffic signal inters		isdiction over traffic signal, if kr	юwл):
NIA		·		
	olidation or Closure:			
NIA	Maddon of Oldanor			•
1-110				
Real Estate or R	NOW: had be also	mal had ei	do of South T	
11001 11001	100 (0TAC	SO EHON SI	at at 300th	THER
Culverts / Drain	nage / Ballast Conditions:		·	
NIA	•			
10				
Roadway and/o	r Sidewalks:	•		
5.	B. grade (upnill)		
Circuitry (e.g. r	eaches out to other crossings, speci	fic needs, etc.): 가니오 야 (detection present	
			,	
Environmental:				•
NIM	J			
Other:		- HI		
Other:				·
	•		•	
				-
		•		
			•	

٥,;		<u> </u>
	FRE Vermillon Rd. Dor # 524037N 4-7-16	
	Field Sketch	
	Crossing Angle 0-29° 30-59° \$\infty\$ 60-90° Measured in \$\infty\$ Quadrant?	
	Sketch by:	

. .

County: ERI

Route: Vermillion Rd.

DOT#: 524037N TABLE 2 Date: 4/7/2016

Clearing Sight Distances

Maximum Authorized Train	Distance (dT) Along	
Speed	Railroad from Crossing (ft)	
1 - 10	240	
4-	1 20	
15	360	
20	480	
20	400	
25	600	
30	720	
. 35	840	
40	960	
	1000	
45	1080	
50	1200	
,	1200	
55	1 32 0	
- 60	1440	
65	1560	
	1.00	
70	1680	
75	1800	
/3	1000	
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 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.

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			
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

(ERI – Vermillion Road, DOT # 524037N)

4/7/2016

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Case No(s). 17-0998-RR-RCP

Summary: Application In the Matter of a Request for an Upgrade to the Active Warning Devices at the Norfolk Southern Railway Crossing, Vermilion Road DOT#524-037N, in Erie County, Ohio. electronically filed by Mrs. Jill A Henry on behalf of PUCO/Rail Division