Public Utilities Commission of Ohio

RECEIVED-DOCKETING DIV 2012 MAY 30 AM 9: 28

Memo

To: Docketing Division

From: George Martin, Grade Crossing Planner, Rail Division

Re: In the matter of the authorization of CSX Transportation and Norfolk Southern Railway to

install active grade crossing warning devices in Logan and Crawford Counties

Date: May 30, 2012

The Ohio Rail Development Commission (ORDC) has authorized funding for CSX Transportation (CSX), and Norfolk Southern Railway (NS) to install new mast mounted flashing lights and roadway gates at the following locations:

CSX Logan County, Pleasant Township, TR 33, 538715L

Logan County, Bokes Creek Township, TR 115, 518369U

NS Crawford County, Chatfield Township, TR 26/Orr Rd, 481582H

The CSX grade crossings were surveyed on November 9, 2011 and were found to warrant the upgrades. The NS grade crossing was surveyed on January 26, 2012, and was found to warrant the upgrade.

These projects will be paid for with federal funds, and are actual cost. As the plans and estimates have already been submitted and approved, staff requests an Entry with completion of the projects 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- 1693 -RR-FED In the matter of the authorization of CSX Transportation and Norfolk Southern Railway to install an active grade crossing warning device in Logan and Crawford Counties

C: Legal Department

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.

Technician Date Processed 5-30-12

Page 1

Please serve the following parties of record

Ms Susan Kirkland

Ohio Rail Development Commission

1980 West Broad St, 2nd Floor

Columbus, Oh 43223

Ms Cayela Wimberly

Norfolk Southern Railway

1200 Peachtree St, Box 123

Atlanta, Ga 30309

Ms. Amanda DeCesare

CSX Transportation

1717 Dixie Hwy, Ste 400

Ft Wright, Ky 41011

Chatfield Township Trustees

3433 New Washington Rd

Bloomville, Oh 44818

Bokes Creek Township Trustees

7357 CR 50

Ridgeway, Oh 43345

Pleasant Township Trustees

9861 SR 47

W DeGraff, Oh 43318

North Central Electric Coop

350 Stump Pike Rd

PO Box 475

Attica, Oh 44807

Logan County Electric Coop

1587 CR 32N

Bellefontaine, Oh 43311

George Martin, PUCO

OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO:

Leah Thomas-Dalton, Rail Division Chief, PUCO

FROM:

Susan Kirkland, Manager, Safety Section, ORDC

BY:

Tim Perkins, Project Manager Im Reskim

SUBJECT:

Logan County, TR 115, DOT No. 518 369 U, PID No. 92772, OP: OH0877

& 5X

DATE:

May 24, 2012

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on November 9, 2011. 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)





Diagnostic Review Team Survey

			ļ	Date: \\	- 1		
Location Data							
Street or Road Name:							
Route/Road Number (i.e. Twp., Co., SR or US)	15			AAR-DOT No.:	518369U		
County: LOG	Township:	Bokes Creek Twp	City: (In or Near)	Ridgeway			
Railroad Name: CSX		Railroad Division: Great Lak	es		Branch/Line Name: Incl /NH!	lictory S	
Nearest RR Timetable Station: Ridgeway			jim sa arang arang arang	RR Milepost	126.66	· · · · · · · · · · · · · · · · · · ·	
On-Site Review Team							
(Include: Name - Organization - Pl	hone Number – I	Email)					
1. <u>James Rice – Bokes Creek</u>	Township - 9	937.355,6275					
2. <u>Darrell Ramsey – Bokes C</u>	<u>Creek Townsh</u>	ip - 937,363,3471	Lanuel 1	lamey			
3. <u>Joe Ramsey – Bokes Creek</u>	<u> Township –</u>	937.363.3544 - 937.44	L.3406 (c)				
4. Scott Coleman – Logan Co	ounty Engine	er – 937.592.2791 – col	emans@co.loga	n.oh.us			
5. Tool Darfus -	ORDC	- 614-374	-9298				
6. CESKER MURTING 7. Karan Muro	1 PUCS	614-752	-9107	· · · ·			
7. Karon Murs	hy CE	XT 904-	359-16:	50			
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9							
9							
9. Existing Traffic Control	ol Devices						
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Existing Traffic Control Type of Warning Dev Advance Warning Signs (condit	rices tion?)	☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes	☐ No ②•No	7	- 1 leaning		
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Existing Traffic Control Type of Warning Dev Advance Warning Signs (condition) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells Sidewalk Gate Arms 'No Turn' Signs	rices ion?) Signal	Yes	No	Number:	Length:		

Functional (Curb height = 4" or more)							
Non-functional (Curb height = Less than 4") Non-functional (Curb height = Less than 4")							
None							
Pedestrians: No Yes							
Is sidewalk present? Yes							
Is there a nearby intersection that could cause queuing over the crossing?							
If yes, Distance							
Is this intersection signalized? I No I Yes							
Are the signals currently interconnected with the existing crossing warning devices? No Yes							
Is there a 'Do not Stop on Track' sign? No Yes							
Is a roadway improvement project (e.g. widening, turn lanes, nearby new or upgraded traffic signal, sidewalk) planned at or near 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 potential closure project: No Yes							
Explain reasons:							
Type of Development							
Open Space Institutional Location of nearby schools:							
☐ Industrial ☐ Commercial							
Residential 3 mls Ridgeway							
Utility Information							
Is commercial power available? No Yes							
Utility Provider (Company Name) Logen Co Up Phone Number							
· · · · · · · · · · · · · · · · · · ·							
Nearest Available Power Source 1005 Ft plus							
What other utilities are present? ATT UNCEGTOUTD (add locations to sketch)							
Is(are) there potential utility conflict(s)							
Comments:							
will need a least 6 flower poles set to get electric to crossing from							
will need a least 6 power poles set to get electric to crossing from the North. There is power From the south about 400' to touses, underground							
*Invite Power Co to Desing Meeting							
1							

Sidewalk		, }	Show North Direction
Parkway		,	
Roadway			
	,	Roadway	·
<u> </u>		Parkway	
		Sidewalk	
ngle 0-29° 30-59° [60-90° Measured in	Quadrant?	

TABLE I

Clearing Sight Distances

Maximum Authorized Train	Distance (dT) Along
Speed	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
<u></u>	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.



Amanda J. DeCesare
Project Manager – Public Projects
1717 Dixie Highway, Suite 400
Fort Wright, KY 41011
Tel. 859-344-8442
Amanda_DeCesare@csx.com

May 11, 2012

Mr. Tim Perkins Grade Crossing Specialist Ohio Rail Development Commission 1980 W. Broad Street, 2nd Floor Columbus, OH 43223

Subject: Ridgeway, Logan County, OH – Installation of lights and gates. – TR 115; DOT 518369U;

Milepost QI-126.66; PID 92772; OP # OH0877

Dear Mr. Perkins:

Attached for your review and approval is a force account estimate in the amount of \$211,692.00 for the subject at-grade crossing project. A hardcopy of the estimate and circuit plans will be sent to you at the above address. We await receipt of the ORDC's further advice and /or approval of the project cost and authority to proceed with the ordering of materials and construction.

If I can be of further assistance, please feel free to call.

Sincerely,

Amanda J. DeCesare

Project Manager, CSXT Public Projects

Cc: Leah Dalton
Jill Henry
Susan Kirkland
Susan Arduini
George Martin

CSX TRANSPORTATION, INC. FORCE ACCOUNT ESTIMATE

ACCT. CODE: 709 - OH0877

	O.: 5183 TE: OH	69U
DIVISION: Great Lakes SUB-DIV: Mt. Victory MILE PO AGENCY PROJECT NUMBER: PID 92772	ST: QI - 1	126.66
DDEI IMINADY ENGINEEDING.		_
PRELIMINARY ENGINEERING: 200 Additive 31.34%	\$	
230 Expenses	\$	-
212 Contracted & Administrative Engineering Services	\$	2,500
Subtotal	\$	2,500
CONSTRUCTION ENGINEERING/INSPECTION:		
200 Additive 31.34%	\$	-
230 Expenses		_
212 Contracted & Administrative Engineering Services	\$ \$ \$	2,500
Subtotal	\$	2,500
ELACCING CERVICE. (Contract Labor)		
FLAGGING SERVICE: (Contract Labor) 070 Labor (Conductor-Flagman)	\$	_
050 Labor (Foreman/Inspector)	\$	_
070 Additive 73.76% (Transportation Department)	\$	_
050 Additive 97.95% (Engineering Department)	\$	-
230 Per Diem (Engineering Department)	\$	_
230 Expenses	\$ \$ \$ \$ \$ \$	•
Subtotal	\$	-
SIGNAL & COMMUNICATIONS WORK: (Details Attached)	\$	202,453
TRACK WORK: (Details Attached)	\$	-
ACCOUNTING & BILLING:		
040 Labor	\$	2,600
040 Additive 63.03%	\$	1,639
Subtotal	\$	4,239
PROJECT SUBTOTAL	\$	211,692
900 CONTINGENCIES:	\$	-
<u> </u>		
GRAND TOTAL ************************************	\$	211,692
Agency <u>100.00%</u>	\$	211,692
Railroad	\$	-
TOTAL ************************************	\$	211,692
NOTE: Estimate is based on FULL CROSSING CLOSURE during work by Railroad For	ces.	

This estimate has been prepared based on site conditions, anticipated work duration periods, material prices, labor rates, manpower and resource availability, and other factors known as of the date prepared. The actual cost for CSXT work may differ based upon the agency's requirements, their contractor's work procedures, and/or other conditions that become apparent once construction commences or during the progress of the work

Office of Assistant Chief Engineer Public Projects--Jacksonville, Florida

Estimated prepared by: DATE: 5/9/2012

BSE REVISED:

Approved by: DATE:

AJD **CSXT Public Project Group**

5/9/2012

Form Revised 05-05-2010-LLS

Estimate No. 120101 CSX Transportation

TR 115 - Install FLS&G. Ridgeway, OH

DOT: 518369U

OP: OH0877

CSX Project: OH2012029

Summary

Material	\$ 77,097
Sales Tax	\$0
Labor: Construction Labor (96 man-days)Shop Labor (6 man-days)Subsistence (96 man-days)	\$ 28,665 \$ 1,260 \$ 12,480
Railroad Engineering, PreliminaryRailroad Engineering, Construction	\$ 4,543 \$ 4,300
Additives to Construction Labor	\$ 26,633 \$ 1,117 \$ 0 \$ 2,771
Equipment Expenses (19 work days)	\$ 12,350
Waste Management (19 work days)	\$ 228
Contract Engineering	\$ 20,010
Freight	\$ 4,500
Poleline Removal	\$0
AC Power Service	\$ 2,500
Salvage	\$ -1
VAC-TRUCK	\$ 4,000
TOTAL ESTIMATE COST	\$ 202,452

Date: 05/03/2012

Estimated By: John Morrison

NOTE: This estimate should be considered void one year from date of estimate.

Shop Material List for CSX Project: OH2012029 (Effective: 05/03/2012) TR-115 - Design to install FLS&G. Use a PMD-3R Ridgeway, OH - QI 126.66

Catalog Num 020-0003386	Cond	Unit Price	<u>Qty</u>	Cost Description
020-0003386	1	6781.00	1	6781.00 HOUSE 6X6L ALUM INCLUDES 5 SHELFS, FARADAY CLOSET, 240V
020-0017120	1	11.52	6	69.12 BLOCK TERMINAL 12 POST SINGLE STRIP AAR 14.1.6 WITH 1 AAR
020-0017125	1	3.54	6	21.24 BLOCK TERMINAL 2 POST AAR 14.1.8 WITH 1 AAR 14.1.11
020-0017211	1	627.20	1	627.20 TRANSFORMER LIGHT 750VA 010520-50X MODEL SLT-50
020-0017385	1	56.16	1	56.16 CABLE RJ45 TO RJ4 15' GETS P/N 075061-015
020-0021965	1	8.96	1	8.96 EXTRACTOR DWG 59688-4 TERMINAL GRS CAT P3-308 REF
020-0022651	1	55.89	5	279.45 PLUGBOARD KIT TYPE B1 OR ST1 RELAY ASSEMBLY WITH 12 EACH
020-0022701	1	68.00	27	1836.00 ARRESTER HYBRID LOW VOLTAGE 0-30V DC OR 0-24V AC RATED AT
020-0025595	1	20.72	1	20.72 WRENCH DWG 55393-3 GR1 "E" TERMINAL POST NUT GRS CAT
020-0053360	1	406.56	3	1219.68 CHARGER BATTERY ELC 12/20 D 20 AMP 10-19.9 VDC ROTARY SW
020-0053510	1	233.11	1	233.11 KIT 240V AC EMERGENCY GENERATOR CABLE AND
020-0055608	1	21.22	1	21.22 RELAY POTTER BRUMFIELD KRP11AG12 OR STRUTHERS-DUNN
020-0056515	1	3.07	1	3.07 SOCKET RELAY 8 PIN OCTAL FOR NON VITAL RELAY CSX SS705 REF
020-0064060	1	16.12	1	16.12 PLATE RELAY MOUNTING FOR 2 EACH TYPE KHAU OR OCTAL RELAY
020-0660077	1	597.41	1	597.41 ARRESTER GE 9L10KAC213 FOR 240 VOLT SINGLE PHASE 3 WIRE
020-0750090	1	0.08	3	0.24 NUT INSULATED USE ON AAR BINDING POST TERMINAL FOR
020-0770060	1	13.44	12	161.28 ARRESTER US&S N451552-0201 TRACK SERIES RED LABEL USGA
020-0770105	1	22.40	4	89.60 ARRESTER HARMON 202217-000 AGE-1 TRACK AIR GAP EQUALIZER
020-1940055	1	14.22	1	14.22 CONTAINER TUBE HOLDER CIRCUIT PRINT PLAN 24" SCHD 20 4" PVC
020-2501400	1	1043.84	1	1043.84 CONTROLLER DTMF RADIO KEY DOWN MODE 6 SET TIMER TO 60
020-2532515	1	32.48	2	64.96 MODULE RESISTOR ISLAND OUTPUT RESISTIVE LOAD ASSEMBLY 560
020-2552400	1	7357.56	2	14715.12 DETECTOR HARMON 250826-200 PMD-3R SYSTEM W/8KHZ RSI
020-3430110	1	321.84	1	321.84 RELAY SAFETRAN 400004 500 OHMS CONTACTS 4FB-2F-1B CSX
020-3430115	1	421.20	1	421.20 RELAY SAFETRAN 400005 500 OHMS CONTACTS 4FB HEAVY DUTY
020-3430135	1	513.30	1	513.30 RELAY SAFETRAN 400213 460 OHMS CONTACTS 2FB CSX
				•

Shop Material List for CSX Project: OH2012029 (Effective: 05/03/2012) TR-115 - Design to install FLS&G. Use a PMD-3R Ridgeway, OH - QI 126.66

Catalog Num	Cond	Unit Price	Qty	Cost Description
020-3430170	1	413.95	1	413.95 RELAY SAFETRAN 400800-CSX 100/100 OHMS CONTACTS 6FB
020-3430185	1	431.55	1	431.55 RELAY SAFETRAN 400700-X 60 OHMS CONTACTS 4FB CSX
020-4200100	1	6.04	2	12.08 CONNECTOR BUS 1" CENTERS 1/2" X 36" 18 GAGE PUNCHED 1/4" X
020-4200340	1	1.65	12	19.80 LINK TEST ASSEMBLY 1" CENTERS YELLOW INSULATOR ON OFFSET
020-4200350	1	2.04	9	18.36 LINK TEST ASSEMBLY 2-3/8" CENTERS YELLOW INSULATOR ON
020-4201045	1	0.15	300	45.00 NUT HEX CLAMP (FLAT NUT) AAR 14.1.11-7 14-24 NS-2 THD FLAT
020-8000067	1	14.61	2	29.22 LOCK AMERICAN H10SIGRA CSX SIGNAL PADLOCK WITH BLACK
020-8100031	1	24.38	1	24.38 CABLE EVENT RECORDER HARMON HAWK NETWORK CABLE USED WITH
020-8100044	1	3906.57	1	3906.57 RECORDER EVENT HAWK INCLUDES ETHERNET MODEM AND CURRENT
022-8005160	1	563.90	1	563.90 KIT CDMA AND VHF RADIO MATERIAL FOR USE WITH CSX

Total Cost: \$ 34,600.87

Field Material List for CSX Project: OH2012029 (Effective: 05/03/2012) TR-115 - Design to install FLS&G. Use a PMD-3R Ridgeway, OH - QI 126.66

Catalog Num	Cond	Unit Price	Qty	Cost Description
020-0010449	1	31.57	4	126.28 BOX, 9 INCH DIA. "FLOWER POT" ENCLOSURE WITH HD
020-0013687	1	17.76	4	71.04 SPLICE TRACK WIRE TO BONDSTRAND (FLOWER POT KIT)
020-0013908	1	6.90	400	2760.00 CABLE UG COMPOSITE 19 CONDUCTOR INCLUDES 13
020-0017605	1	0.33	200	66.00 WIRE CASE 10 AWG FLEX CSX SPEC SS796 OKONITE P/N
020-0025145	1	320.49	8	2563.92 SHUNT ENCLOSURE INTERRAIL P/N IRS-SE8A WAYSIDE MOUNT
020-0052475	1	11.20	4	44.80 ARM EXTENSION 10-1/2" ALUM WITH 3/8" DIAMETER MOUNTING
020-0053066	1	4.10	16	65.60 BOND WEB OF RAIL TRACK CONNECTOR 3/16" DIA X 1" TAB
020-0053220	1	2.53	150	379.50 CABLE POWER UG 3 COND NO 6 AWG - SHOW LENGTH ON EACH
020-0054075	1	1006.88	2	2013.76 GATE SAVER COMPLETE WITH SHEAR PIN AND RETURN SPRING
020-0055421	1	18.61	6	111.66 BRACKET SIGN 4" OR 5" MAST W/1/2" U-BOLT FOR ALL SIGNS
020-0056131	1	26.71	2	53.42 SIGN MULTIPLE TRACK "2 TRACKS" NO HARDWARE CSX DWG
020-0056421	1	18.61	4	74.44 BRACKET SIGN 4" OR 5" MAST FOR ALL SIGNS REQUIRING 5/8"
020-0056678	1	6124.91	2	12249.82 SIGNAL 0221-L GCWD GATE ASSY DWG SS222 INCLS ADJ 19 TO 28
020-0057275	1	1.17	400	468.00 WIRE UG TRACK TWISTED PAIR NO. 6 AWG SOLID CONDUCTOR
020-1040322	1	162.40	29	4709.60 BATTERY SAFT SPL165, 165 AH POCKET PLATE NICKEL CADMIUM
020-1040540	1	31.36	4	125.44 TRAY BATTERY FIBER CO 82687-1-P 12" WIDTH 24" LONG
020-1040550	1	45.92	1	45.92 TRAY BATTERY FIBER CO 82687-3-P 12" WIDTH 38"
020-1150750	1	0.86	200	172.00 BOND STRAND 3/16" DIA 7 STRANDS OF 19 STR EACH 6 WITH
020-1360014	1	1017.60	1	1017.60 PACKAGE FOREMANS CARE FOR ALUMINUM TYPICAL BOM FOR USE
020-1360016	1	21.18	1	21.18 PACKAGE SAFETY FOR BURCO CONTAINERS COMPLETE WITH ONE
020-1360104	1	1379.66	1	1379.66 LAYOUT METER SERVICE WITH 30' POLE CSX DWG SS351 SH 2 ITEMS
020-2500591	1	399.37	2	798.74 SHUNT SAFETRAN 62775-1543 MULTI-FREQUENCY NARROW BAND
020-2530285	1	306.34	4	1225.36 FILTER EPC 800-08055-108 TF-151
020-2530288	1	306.34	4	1225.36 FILTER EPC 800-080055-109 TF-211
020-2531270	1	282.55	4	1130.20 SHUNT HARMON 250250-151 NBS-1-10 151HZ 10 FT LEADS

Field Material List for CSX Project: OH2012029 (Effective: 05/03/2012) TR-115 - Design to install FLS&G. Use a PMD-3R Ridgeway, OH - QI 126.66

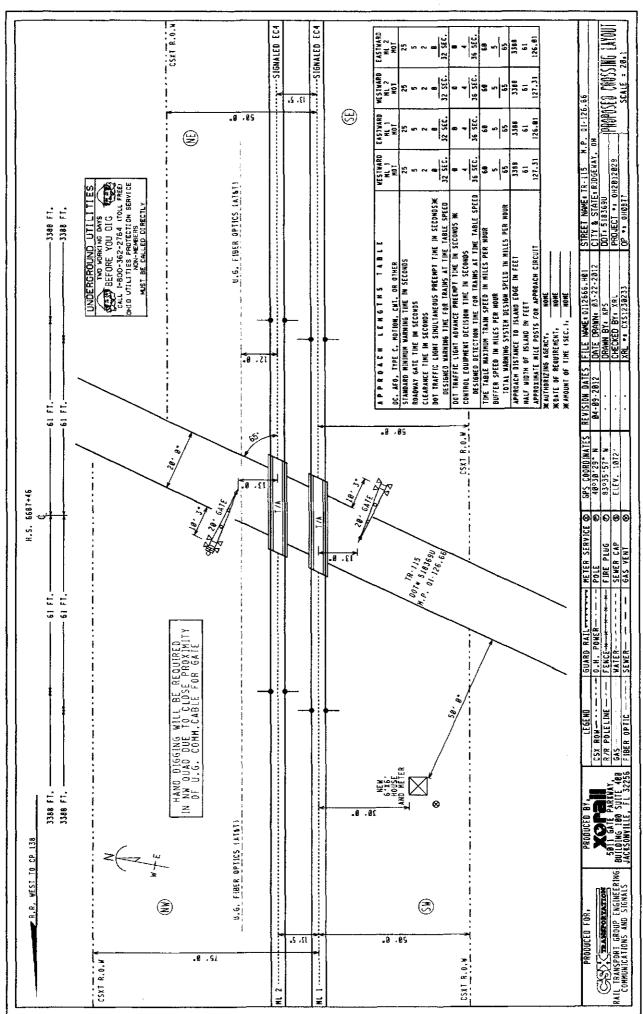
Catalog Num	Cond	Unit Price	Qty	Cost Description
020-3263656	1	1.77	8	14.16 SLEEVE BONDSTRAND 3/16" TO 3/16" 100 PER BOX, NICOPRESS
020-3901895	1	92.68	2	185.36 TIP FLEX HWY CROSSING GATE 24 IN LONG ENGINEERING GRADE RED
020-3920200	1	181.17	1	181.17 BELL GCWD ELECTRONIC 4" OR 5" MAST 8 TO 13 VOLTS DC GSI PN
020-3930010	1	3.70	2	7.40 KIT GATE ARM WARNING STICKER KIT INCLUDES 1-EA 5"X3"
020-4200340	1	1.65	31	51.15 LINK TEST ASSEMBLY 1" CENTERS YELLOW INSULATOR ON OFFSET
020-4200900	1	0.28	6	1.68 CONNECTOR SHEATHING AMP 329860 FOR NO. 14 WIRE
020-7300030	1	189.28	1	189.28 BRACKET BELL FITS SAFETRAN JUNCTION BOX MOUNT, 5" BENT
020-9999991	1	100.00	1	100.00 BLOCKING AND BRACING FOR PROJECTS BURCO DIST
250-0001827	1	13.76	1	13.76 BREAKER CIRCUIT SQ D QO235
250-1680406	1	0.44	160	70.40 CONDUIT LIQUID TIGHT 3/4" FLEXIBLE GREY PVC CARLON P/N
250-1680408	1	1.00	160	160.00 CONDUIT LIQUID TIGHT 3/4" NON-METALLIC ORANGE PVC
360-0006100	1	35.07	1	35.07 STOOL STEP WOOD 14"X 20" SIGNAL MAINTAINERS CSXT
360-0800145	1	4.93	1	4.93 BROOM WAREHOUSE CORN HVY DUTY 1-1/8" DIA HANDLE

Total Cost: \$ 33,913.66

Consumables List for CSX Project: OH2012029 (Effective: 05/03/2012) TR-115 - Design to install FLS&G. Use a PMD-3R Ridgeway, OH - QI 126.66

Catalog Num	Cond	Unit Price	Qty	Cost Description
N/A		50.00	60	3000.00 FILL MATERIAL, 1 CUBIC YARD
N/A		500.00	1	500.00 RAVEN AIR-LINK
N/A		800.00	1	800.00 WALKWAY ROCK, 10 CUBIC YARDS
020-0017605	1	0.29	350	101.50 WIRE CASE 10 AWG FLEX CSX SPEC SS796 OKONITE P/N
020-0017607	1	0.68	500	340.00 WIRE CASE TW PR NO 10 AWG FLEX CSX SPEC SS796 TWIST 2
020-0017625	1	0.42	150	63.00 WIRE CASE TWISTED PAIR AWG #14 FLEX TWIST 2 TURNS PER FT
020-0017630	1	0.13	200	26.00 WIRE CASE NO 16 AWG FLEX CSX SPEC SS796 FURN 1000 FT SPOOL
020-0017635	1	0.80	130	104.00 WIRE (DO NOT ORDER, USE 020.0017636.1) SIGNAL DEL 018
020-0028610	1	0.22	100	22.00 TERMINAL RING PANDUIT PN12-14HDR-D YELLOW NYLON HVY
020-1360540	1	71.65	1	71.65 BREAKER MAIN/GENERATOR BACKFEED RETAINING GENERATOR
020-1710045	1	2.25	250	562.50 CONDUIT SDR 13.5 4" ORANGE POLYETHYLENE TRENCHLESS
020-2060072	1	750.00	2	1500.00 FOUNDATION HELICAL SCREW-IN ASSEMBLY 7' X 10", USED FOR
020-2060074	1	525.00	2	1050.00 EXTENSION 10" X 3' USE WITH XING GATE AND SIGNAL MAST
020-3261970	1	9.41	2	18.82 DECAL (DO NOT ORDER, CALL SIGNAL SHOP) ASSY 2" BLACK
020-4200880	1	0.53	2	1.06 CONNECTOR TERMINAL 2-3/8" CENTERS AAR 14.1.15-4 NICKEL
020-4200892	1	0.44	27	11.88 CONNECTOR TERMINAL 1" CENTERS AAR 14.1.15-3 NICKEL PLATED
020-4251190	1	0.13	120	15.60 TERMINAL RING PANDUIT PV10-14RD YELLOW VINYL SIZE
020-4251290	1	0.49	30	14.70 TERMINAL RING PANDUIT PV6-14R-T BLUE VINYL SIZE 6
020-4251295	1	0.49	6	2.94 TERMINAL RING PANDUIT PV6-38R-T BLUE VINYL SIZE 6
020-9999992	1	50.00	1	50.00 HOUSE SIGNAL HANDLING CHARGE BURCO DISTRIBUTION
022-5290559	1	325.00	1	325.00 CONVERTER WILMORE INPUT 10V DC TO 16V DC OUTPUT 13.6V DC
450-0019212	1	0.02	100	2.00 SCREW 10 X 1" SHT METAL PAN HD TYPE A COARSE THREAD

Total Cost: \$ 8,582.65



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George Martin, PUCO



OHIO RAIL DEVELOPMENT COMMISSION

1980 WEST BROAD STREET • COLUMBUS, OH 43223 JOHN R. KASICH, GOVERNOR • JAMES G. BRADLEY, ORDC CHAIRMAN

May 24, 2012

Amanda DeCesare CSX Transportation Public Projects Manager 1717 Dixie Highway, Suite 400 Ft. Wright, KY 41011

RE: Logan County, T.R. 115, DOT No. 518 369 U,

PID No. 92772, OP: OH0877

Dear Ms. DeCesare:

The CSX Transportation (CSX) plan and estimate dated May 3, 2012, in the amount of \$211,692.00 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 \$211,692.00. 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 will furnish prior written notification of their scheduled date to start construction to George Martin, PUCO, Railroad Division.
- 2. CSX's project foreman will furnish FAX or written notification five (5) working days prior to the date work will start at the project site to Tim Perkins, Ohio Rail Development Commission (ORDC), 1980 West Broad Street, Columbus, Ohio 43223, email Tim.Perkins@dot.state.oh.us or FAX (614) 728-4520, (telephone number 614-644-0284), and to the Public Utilities Commission of Ohio at 180 East Broad Street, Columbus, Ohio 43215, email George.martin@puc.state.oh.us, (telephone number 614-752-9107). 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.
- 3. 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.

- 4. CSX's project foremen will notify Tim Perkins 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.
- 5. CSX will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed Encumbrance Estimate to reference when billing.
- 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.
- 7. If desired, CSX may locate the warning devices 8'3" from traveled way.

Thank you for your assistance with these matters.

Sincerely,

Tim Perkins

Project Manager

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C: Leah Thomas-Dalton, Rail Division Chief, PUCO George Martin, PUCO, Grade Crossing Planner / ORDC (file)

OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO: Leah Thomas-Dalton, Rail Division Chief, PUCO

FROM: Susan Kirkland, Manager, Safety Section, ORDC

BY: Tim Perkins, Project Manager Inn Revision

SUBJECT: Logan County, TR 33, DOT No. 538 715 L, PID No. 92770, OP: OH0874 (5)

DATE: May 24, 2012

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on November 9, 2011. 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

heah Momas - Dalton PUCO



OHIO RAIL DEVELOPMENT COMMISSION

1980 West Broad Street • Columbus, OH 43223 John R. Kasich, Governor • James G. Bradley, ORDC Chairman

May 24, 2012

Amanda DeCesare CSX Transportation Public Projects Manager 1717 Dixie Highway, Suite 400 Ft. Wright, KY 41011

RE: Logan County, T.R. 33, DOT No. 538 715 L,

PID No. 92770, OP: OH0874

Dear Ms. DeCesare:

The CSX Transportation (CSX) plan and estimate dated April 24, 2012, in the amount of \$250,973.00 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 \$250,973.00. 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 will furnish prior written notification of their scheduled date to start construction to George Martin, PUCO, Railroad Division.
- 2. CSX's project foreman will furnish FAX or written notification five (5) working days prior to the date work will start at the project site to Tim Perkins, Ohio Rail Development Commission (ORDC), 1980 West Broad Street, Columbus, Ohio 43223, email Tim.Perkins@dot.state.oh.us or FAX (614) 728-4520, (telephone number 614-644-0284), and to the Public Utilities Commission of Ohio at 180 East Broad Street, Columbus, Ohio 43215, email George.martin@puc.state.oh.us, (telephone number 614-752-9107). 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.
- 3. 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.

- 4. CSX's project foremen will notify Tim Perkins 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.
- 5. CSX will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed Encumbrance Estimate to reference when billing.
- 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.
- 7. No roadway widening planned, both foundations should be located 8'3" from the edge of roadway with the tip of gate 10' from the center line of track to avoid overhead utilities. The northwest warning device will not need a platform as designed.

Thank you for your assistance with these matters.

Sincerely,

Tim Perkins

Project Manager

Im Respins

C: Leah Thomas-Dalton, Rail Division Chief, PUCO
George Martin, PUCO, Grade Crossing Planner
ORDC (file)



Amanda J. DeCesare
Project Manager -- Public Projects
1717 Dixie Highway, Suite 400
Fort Wright, KY 41011
Tel. 859-344-8442
Amanda_DeCesare@csx.com

May 11, 2012

Mr. Tim Perkins Grade Crossing Specialist Ohio Rail Development Commission 1980 W. Broad Street, 2nd Floor Columbus, OH 43223

Subject: DeGraff. Logan County, OH – Installation of lights and gates. – TR 33; DOT 538715L;

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Milepost QI-146.76; PID 92770; OP # OH0874

Dear Mr. Perkins:

Attached for your review and approval is a force account estimate in the amount of \$250, 973.00 for the subject at-grade crossing project. A hardcopy of the estimate and circuit plans will be sent to you at the above address. We await receipt of the ORDC's further advice and /or approval of the project cost and authority to proceed with the ordering of materials and construction.

If I can be of further assistance, please feel free to call.

Sincerely,

Amanda J. DeCesare

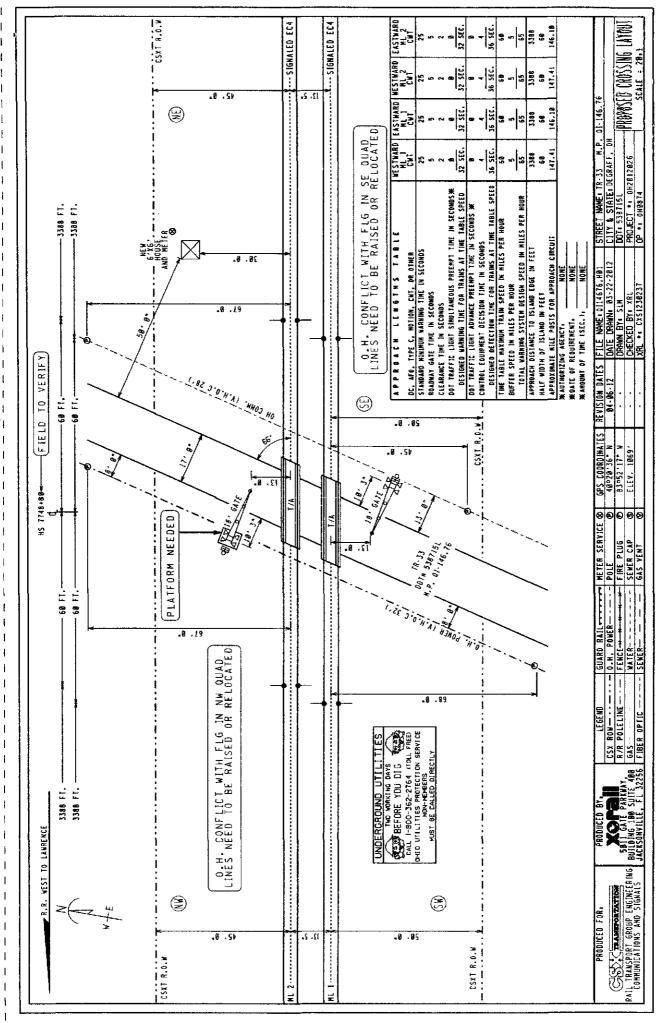
Project Manager, CSXT Public Projects

Cc: Leah Dalton
Jill Henry
Susan Kirkland
Susan Arduini
George Martin

owe for FAOC comments

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CSX TRANSPORTATION, INC. FORCE ACCOUNT ESTIMATE

ACCT. CODE: 709 - OH0874

ESTIMATE SUBJECT TO REVISION AFTER: 10/31/2012 DOT NO.: CITY: DeGraff COUNTY: Logan STATE DESCRIPTION: TR-33 - Installation of FLS&G.		15L
DIVISION: Great Lakes SUB-DIV: Indianapolis Line MILE POST AGENCY PROJECT NUMBER: PID 92770	: QI - 1	46.76
PRELIMINARY ENGINEERING: 200 Additive 31.34% 230 Expenses 212 Contracted & Administrative Engineering Services Subtotal	\$ \$ \$	2,500 2,500
CONSTRUCTION ENGINEERING/INSPECTION: 200 Additive 31.34% 230 Expenses 212 Contracted & Administrative Engineering Services Subtotal	\$ \$ \$	2,500 2,500
FLAGGING SERVICE: (Contract Labor) 070 Labor (Conductor-Flagman) 050 Labor (Foreman/Inspector) 070 Additive 73.76% (Transportation Department) 050 Additive 97.95% (Engineering Department) 230 Per Diem (Engineering Department) 230 Expenses Subtotal	****	- - - - - -
SIGNAL & COMMUNICATIONS WORK: (Details Attached)	\$	240,919
TRACK WORK: (Details Attached)	\$	-
ACCOUNTING & BILLING: 040 Labor 040 Additive 63.03% Subtotal PROJECT SUBTOTAL 900 CONTINGENCIES:	\$ \$ \$ \$	3,100 1,954 5,054 250,973
GRAND TOTAL ************************************	\$	250,973
Agency <u>100.00%</u> Railroad TOTAL ************************************	\$ \$	250,973 - 250,973

NOTE: Estimate is based on FULL CROSSING CLOSURE during work by Railroad Forces.

This estimate has been prepared based on site conditions, anticipated work duration periods, material prices, labor rates, manpower and resource availability, and other factors known as of the date prepared. The actual cost for CSXT work may differ based upon the agency's requirements, their contractor's work procedures, and/or other conditions that become apparent once construction commences or during the progress of the work

Office of Assistant Chief Engineer Public Projects--Jacksonville, Florida

Estimated prepared by: DATE: 5/4/2012

REVISED:

Approved by: DATE:

AJD

5/9/2012

CSXT Public Project Group

Form Revised 05-05-2010-LLS

Estimate No. 120059 CSX Transportation

TR-33 - Install FLS&G. DeGraff, OH

DOT: 538715L

OP: OH0874

CSX Project: OH2012026

Summary

Material	\$ 80,852 \$ 0
Labor: Construction Labor (131 man-days)Shop Labor (6 man-days)Subsistence (131 man-days)	\$ 39,408 \$ 1,260 \$ 17,030
Railroad Engineering, PreliminaryRailroad Engineering, Construction	\$ 4,828 \$ 5,911
Additives to Construction Labor	\$ 36,614 \$ 1,117 \$ 0 \$ 3,366
Equipment Expenses (27 work days)	\$ 17,550
Waste Management (27 work days)	\$ 324
Contract Engineering	\$ 21,360
Freight	\$ 4,800
Poleline Removal	\$0
AC Power Service	\$ 2,500
Salvage	\$ -1
VAC-TRUCK	\$ 4,000
TOTAL ESTIMATE COST	\$ 240,920

Date: 04/24/2012

Estimated By: John Morrison

NOTE: This estimate should be considered void one year from date of estimate.

Page 1 of 7 Estimate ID: 120059

Shop Material List for CSX Project: OH2012026 (Effective: 04/24/2012) Install FLS&G w/GCP-3000D2 Degraff, OH - QI 146.76

Catalog Num	Cond	Unit Price	Qty	Cost Description
020-0003386	1	6781.00	1	6781.00 HOUSE 6X6L ALUM INCLUDES 5 SHELFS, FARADAY CLOSET, 240V
020-0017120	1	11.52	6	69.12 BLOCK TERMINAL 12 POST SINGLE STRIP AAR 14.1.6 WITH 1 AAR
020-0017125	1	3.54	6	21.24 BLOCK TERMINAL 2 POST AAR 14.1.8 WITH 1 AAR 14.1.11
020-0017211	1	627.20	1	627.20 TRANSFORMER LIGHT 750VA 010520-50X MODEL SLT-50
020-0017385	1	59.27	1	59.27 CABLE RJ45 TO RJ4 15' GETS P/N 075061-015
020-0021965	1	8.96	1	8.96 EXTRACTOR DWG 59688-4 TERMINAL GRS CAT P3-308 REF
020-0022651	1	55.89	7	391.23 PLUGBOARD KIT TYPE B1 OR ST1 RELAY ASSEMBLY WITH 12 EACH
020-0022701	1	68.00	33	2244.00 ARRESTER LPC 15012-1 0-30V DC OR 0-24V AC RATED AT 15 AMP
020-0025595	1	20.72	1	20.72 WRENCH DWG 55393-3 GR1 "E" TERMINAL POST NUT GRS CAT
020-0053360	1	406.56	3	1219.68 CHARGER BATTERY ELC 12/20 S 20 AMP 10-19.9 VDC ROTARY SW
020-0053510	1	233.11	1	233.11 KIT 240V AC EMERGENCY GENERATOR CABLE AND
020-0055608	1	17.88	1	17.88 RELAY POTTER BRUMFIELD KRP11AG12 OR STRUTHERS-DUNN
020-0056515	1	3.07	1	3.07 SOCKET RELAY 8 PIN OCTAL FOR NON VITAL RELAY CSX SS705 REF
020-0064060	1	16.12	1	16.12 PLATE RELAY MOUNTING FOR 2 EACH TYPE KHAU OR OCTAL RELAY
020-0660077	1	597.41	1	597.41 ARRESTER GE 9L10KAC213 FOR 240 VOLT SINGLE PHASE 3 WIRE
020-0750090	1	0.09	3	0.27 NUT INSULATED USE ON AAR BINDING POST TERMINAL FOR
020-0770060	1	13.44	12	161.28 ARRESTER US&S N451552-0201 TRACK SERIES RED LABEL USGA
020-0770105	1	22.40	4	89.60 ARRESTER HARMON 202217-000 AGE-1 TRACK AIR GAP EQUALIZER
020-1940055	1	14.22	1	14.22 CONTAINER CIRCUIT PRINT 24" SCHEDULE 20 4" PVC PIPE WITH
020-2501400	1	1043.84	1	1043.84 CONTROLLER DTMF RADIO KEY DOWN MODE 6 SET TIMER TO 60
020-2550075	. 1	12002.90	1	12002.90 PREDICTOR SAFETRAN GCP-3000D2 REDUNDANT TWO TRK SYS W/CASE
020-3430110	1	321.84	3	965.52 RELAY SAFETRAN 400004 500 OHMS CONTACTS 4FB-2F-1B CSX
020-3430115	1	421.20	1	421.20 RELAY SAFETRAN 400005 500 OHMS CONTACTS 4FB HEAVY DUTY
020-3430135	1	513.30	1	513.30 RELAY SAFETRAN 400213 460 OHMS CONTACTS 2FB CSX
020-3430170	1	413.95	1	413.95 RELAY SAFETRAN 400800-CSX 100/100 OHMS CONTACTS 6FB

Shop Material List for CSX Project: OH2012026 (Effective: 04/24/2012) Install FLS&G w/GCP-3000D2 Degraff, OH - QI 146.76

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Total Cost: \$ 32,980.33

Page 3 of 7

Field Material List for CSX Project: OH2012026 (Effective: 04/24/2012) Install FLS&G w/GCP-3000D2 Degraff, OH - QI 146.76

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Catalog Num	Cond	Unit Price	Qty	Cost Description
020-0010449	1	31.57	3	94.71 BOX, 9 INCH DIA. "FLOWER POT" ENCLOSURE WITH HD
020-0013687	1	17.76	3	53.28 SPLICE TRACK WIRE TO BONDSTRAND (FLOWER POT KIT)
020-0013880	1	1.95	3000	5850.00 CABLE UG 7 COND NO 14 AWG SOLID C CSX SPEC SS796 SHOW
020-0013908	1	6.98	300	2094.00 CABLE UG COMPOSITE 19 CONDUCTOR INCLUDES 13
020-0017605	1	0.30	200	60.00 WIRE CASE 10 AWG FLEX CSX SPEC SS796 OKONITE P/N
020-0022651	1	55.89	2	111.78 PLUGBOARD KIT TYPE B1 OR ST1 RELAY ASSEMBLY WITH 12 EACH
020-0022701	1	68.01	4	272.04 ARRESTER HYBRID LOW VOLTAGE 0-30V DC OR 0-24V AC RATED AT
020-0025145	1	320.49	6	1922.94 SHUNT ENCLOSURE INTERRAIL P/N IRS-SE8A WAYSIDE MOUNT
020-0028610	1	0.22	25	5.50 TERMINAL RING PANDUIT PN12-14HDR-D YELLOW NYLON HVY
020-0052475	1	11.20	4	44.80 ARM EXTENSION 10-1/2" ALUM WITH 3/8" DIAMETER MOUNTING
020-0053066	1	4.10	24	98.40 BOND WEB OF RAIL TRACK CONNECTOR 3/16" DIA X 1" TAB
020-0053220	1	2.50	150	375.00 CABLE POWER UG 3 COND NO 6 AWG, SHOW LENGTH ON EACH
020-0054075	1	1006.88	2	2013.76 GATE GARD NORMAL MOVEMENT COMPLETE WITH SHEAR PIN AND
020-0054167	1	27.53	2	55.06 KIT 72-N2CH SCOTCHCAST SPLICE FOR CABLES WITH OUTSIDE
020-0055421	1	18.61	6	111.66 BRACKET SIGN 4" OR 5" MAST W/1/2" U-BOLT FOR ALL SIGNS
020-0056181	1	33.49	2	66.98 SIGN 0254 2 TRACK MULT TRK CSX DWG SS225 ALUM
020-0056421	1	18.61	4	74.44 BRACKET SIGN 4" OR 5" MAST FOR ALL SIGNS REQUIRING 5/8"
020-0056674	1	5870.84	2	11741.68 SIGNAL 0220-L GCWD GATE ASSY DWG SS222 INCLS 18 FBRGL ARM
020-0056823	1	15.01	3	45.03 TAPE UG RED CABLE MARKER IMPRINT TO READ "CAUTION
020-0057275	1	1.32	500	660.00 WIRE UG TRACK TWISTED PAIR NO. 6 AWG SOLID CONDUCTOR
020-0750090	1	0.09	3	0.27 NUT INSULATED USE ON AAR BINDING POST TERMINAL FOR
020-1020095	1	1678.83	1	1678.83 PLATFORM HIGHWAY CROSSING ACCESS FOUNDATION COMPLETE
020-1040322	1	162.40	29	4709.60 BATTERY SAFT SPL165, 165 AH POCKET PLATE NICKEL CADMIUM
020-1040540	1	31.36	4	125.44 TRAY BATTERY FIBER CO 82687-1-P 12" WIDTH 24" LONG
020-1040550	1	45.92	1	45.92 TRAY BATTERY FIBER CO 82687-3-P 12" WIDTH 38"

Field Material List for CSX Project: OH2012026 (Effective: 04/24/2012) Install FLS&G w/GCP-3000D2 Degraff, OH - QI 146.76

Catalog Num	Cond	Unit Price	Qty	Cost Description
020-1150750	1	0.86	200	172.00 BOND STRAND 3/16" DIA 7 STRANDS OF 19 STR EACH 6 WITH
020-1360014	1	845.41	1	845.41 PACKAGE FOREMANS CARE FOR ALUMINUM TYPICAL BOM FOR USE
020-1360016	1	21.18	1	21.18 PACKAGE SAFETY & SECURMENT WITH 1 EA CAUTION TAG 1 EA
020-1360104	1	1379.66	1	1379.66 LAYOUT METER SERVICE WITH 30' POLE CSX DWG SS351 SH 2 ITEMS
020-2060078	1	9.50	1	9.50 BOLT 1" - 8 X 8" INCLUDES NUT AND 3 FLAT WASHERS, USE ON
020-2500433	1	57.29	2	114.58 INDUCTOR 8V617-1000 DUMMY LOAD SAFETRAN
020-2500444	1	57.29	2	114.58 INDUCTOR 8V617-3200 DUMMY LOAD SAFETRAN
020-2500590	1	451.58	4	1806.32 SHUNT SAFETRAN P/N 6000-62775-8621 NARROW BAND
020-2500605	1	374.82	2	749.64 SHUNT SAFETRAN 62775-86 NARROW BAND 86HZ
020-2530288	1	306.34	4	1225.36 FILTER EPC 800-080055-109 TF-211
020-3263640	1	0.26	14	3.64 SLEEVE NICOPRESS 14 AWG SOLID COPPER WIRE 1-1/8" LONG STD
020-3430110	1	321.84	2	643.68 RELAY SAFETRAN 400004 500 OHMS CONTACTS 4FB-2F-1B CSX
020-3901895	1	92.68	2	185.36 TIP FLEX HWY CROSSING GATE 24 IN LONG RED & WHITE STRIPES
020-3920200	1	181.17	2	362.34 BELL GCWD ELECTRONIC 4" OR 5" MAST 8 TO 13 VOLTS DC GSI PN
020-3930010	1	3.70	2	7.40 KIT GATE ARM WARNING STICKER KIT INCLUDES 1-EA 5"X3"
020-4200340	1	1.66	41	68.06 LINK TEST ASSEMBLY 1" CENTERS COMPLETE WITH INSULATED
020-4200900	1	0.27	8	2.16 CONNECTOR SHEATHING AMP 329860 FOR NO. 14 WIRE
020-4201042	1	0.12	40	4.80 NUT HEX BINDING (RSA NUT) AAR 14.1.11-6 14-24 NS-2 THD CONE
020-4201043	1	0.11	250	27.50 NUT HEX CLAMP (FLAT NUT) AAR 14.1.11-7 14-24 NS-2 THD FLAT
020-4201044	1	0.11	200	22.00 WASHER AAR 14.1.11 ROUND COPPER NICKEL PLATED FOR AAR
020-7300030	1	189.28	2	378.56 BRACKET BELL FITS SAFETRAN JUNCTION BOX MOUNT, 5" BENT
020-9999991	1	100.00	1	100.00 BLOCKING AND BRACING FOR PROJECTS BURCO DIST
250-0001827	1	13.75	1	13.75 BREAKER CIRCUIT SQ D QO235
250-1680406	1	0.48	160	76.80 CONDUIT LIQUID TIGHT 3/4" FLEXIBLE GREY PVC CARLON P/N
250-1680408	1	1.00	160	160.00 CONDUIT LIQUID TIGHT 3/4" NON-METALLIC ORANGE PVC
360-0006100	1	35.07	1	35.07 STOOL STEP WOOD 14"X 20" SIGNAL MAINTAINERS CSXT

Field Material List for CSX Project: OH2012026 (Effective: 04/24/2012) Install FLS&G w/GCP-3000D2 Degraff, OH - QI 146.76

Catalog Num	Cond_	Unit Price	Qty	Cost Description
360-0800145	1	4.93	1	4.93 BROOM WAREHOUSE CORN HVY DUTY ID300
		Total C	ost:\$	40,845.4

Consumables List for CSX Project: OH2012026 (Effective: 04/24/2012) Install FLS&G w/GCP-3000D2 Degraff, OH - QI 146.76

Catalog Num	Cond	Unit Price	Qty	Cost Description
N/A		50.00	40	2000.00 FILL MATERIAL, 1 CUBIC YARD
N/A		500.00	1	500.00 RAVEN AIR-LINK
N/A		800.00	1	800.00 WALKWAY ROCK, 10 CUBIC YARDS
020-0017605	1	0.30	350	105.00 WIRE CASE 10 AWG FLEX CSX SPEC SS796 OKONITE
020-0017607	1	0.70	500	350.00 WIRE CASE TW PR NO 10 AWG FLEX CSX SPEC SS796 TWIST 2
020-0017625	1	0.42	150	63.00 WIRE CASE TW PR NO 14 AWG FLEX CSX SPEC SS796 TWIST 2
020-0017630	1	0.13	200	26.00 WIRE CASE NO 16 AWG FLEX CSX SPEC SS796 FURN 1000 FT SPOOL
020-0017635	1	0.80	130	104.00 WIRE SIGNAL DEL 018 NO 6 COPPER STRANDED SINGLE
020-0028610	1	0.22	100	22.00 TERMINAL RING AMP 35628 YELLOW PLASTI-BOND HVY DUTY
020-1710045	1	2.25	250	562.50 CONDUIT SDR 13.5 4" POLYETHYLENE TRENCHLESS
020-2060072	1	417.01	2	834.02 FOUNDATION HELICAL SCREW-IN ASSEMBLY 7' X 10", USED FOR
020-2060074	1	571.20	2	1142.40 EXTENSION 10" X 3' USE WITH XING GATE AND SIGNAL MAST
020-3261960	1	18.82	2	37.64 DECAL (DO NOT ORDER, CALL SIGNAL SHOP) ASSY 5" BLACK
020-3261970	1	9.41	2	18.82 DECAL ASSY 2" BLACK PRESSURE SENSITIVE VINYL PRE-MASKED
020-4200880	1	0.53	2	1.06 CONNECTOR TERMINAL 2-3/8" CENTERS AAR 14.1.15-4 NICKEL
020-4200892	1	0.44	27	11.88 CONNECTOR TERMINAL 1" CENTERS AAR 14.1.15-3 NICKEL PLATED
020-4251190	1	0.13	120	15.60 TERMINAL RING AMP 35627 BLACK PLASTI-BOND WIRE SIZE 10-12
020-4251290	1	0.49	30	14.70 TERMINAL WIRE AMP 322051 BLUE WIRE SIZE NO 6 AWG 1/4" STUD
020-4251295	1	0.49	6	2.94 TERMINAL WIRE AMP 322007 BLUE WIRE SIZE NO 6 AWG 3/8" STUD
020-9999992	1	50.00	1	50.00 HOUSE, SIGNAL HANDLING CHARGE, BURCO DISTRIBUTION
022-5290559	1	325.00	1	325.00 CONVERTER WILMORE INPUT 10V DC TO 16V DC OUTPUT 13.6V DC
450-0019212	1	0.40	100	40.00 SCREW 10 X 1" SHT METAL PAN HD TYPE A COARSE THREAD

Total Cost: \$ 7,026.56

Page 7 of 7 Estimate ID: 120059



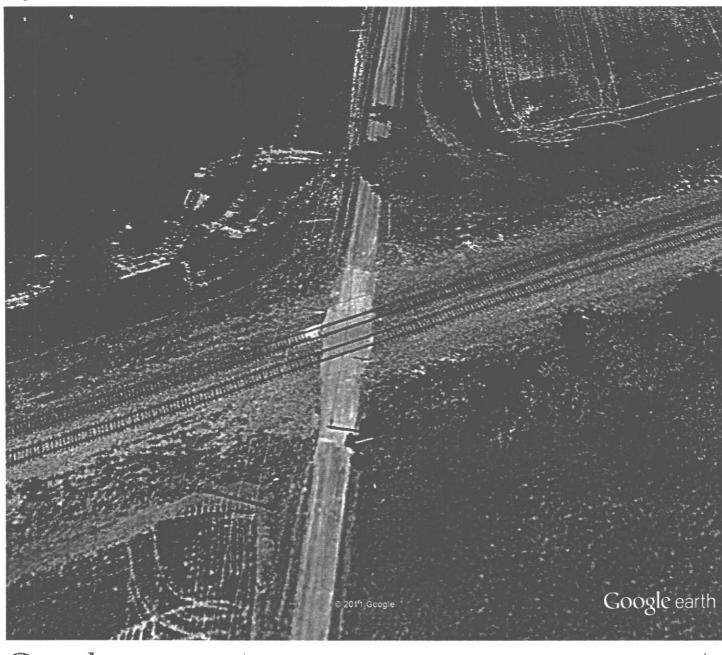
Diagnostic Review Team Survey

				Date:	1-9-11	!	
Location Data							
Street or Road Name:	potential attinony i mentina en et i i attinony poeta	Autorit i di Sitta Sala di Sala		<u>a</u> s cas a telesi <u>ja</u> taas	n inghistri se kecaliya	<u> Sanga pandang pang di Salahan a sang</u> tanah dan dia <u>dibi</u>	
Route/Road Number (i.e. Twp., Co., SR or US) TR 33				AAR-DOT No.:	538715L		
	mship: Pleasant Tov	vnship	City: (In or Near)	De Graff			
Railroad Name: CSX	Railroad Division:	Great Lak	es		Branch/Line Name:	Indianapolis	
Nearest RR Timetable Station: De Graff			······································	RR Milepos	146.76		
On-Site Review Team							
(Include: Name - Organization - Phone	Number – Email)						
1. Victor Klinlelhofer – Pleasant		₀₅₉₆ V.	.K.				
2. Joan Downing - Pleasant Tow			ng@embargmail	.com			
3. John Schindewolf – Pleasant T	_	-					
4. Steve Sanders – Pleasant Town	- ·	5,	5				
5 Tool Darfus	- ORD		6 14 - 37¢	1-9299			
6. Scott Coleman	LCED		1-592-		<u></u>		
0 0		()	. /				
7. GEORGE MARTIA	1 000	01	752-0	107			
8. KON WWW 12V	y wx	404		<u> </u>		•	
9				·			
Existing Traffic Control D	ovicos						
Type of Warning Devices		Installe	<u>√1</u> 2		Quantity/Co	mments	
Advance Warning Signs (condition?)		Yes	□ No	Quantity/Comments Z			
'Stop' Signs		Yes	□No		2	<u> </u>	
'Stop Ahead' Signs		Yes	□ •No				
Pavement Markings (condition?)		Yes	PNo	Neu	Jare	44 0 44	
Crossbucks		Yes	□N₀	7.60	2	W. Visi	
Number of Tracks Signs		Y es	□No		2		
Inventory Tags		Ƴes	□No		2		
Interconnected Highway Traffic Sign		Yes	[- 1No			···	
Mast-Mounted Flashing Lights		Yes	<u> </u>	<u> </u>			
Cantilever Flashing Lights		Yes	ØN∘	Number:		Length:	
Side Lights		Yes	₽No	1121112			
Automatic Gates		Yes	☑ 100	Number:		Length:	
Bells	 	Yes	No	Number:			
Sidewalk Gate Arms		Yes	[] No	14			
'No Turn' Signs		Yes	<u> </u>				
Illumination	<u> </u>	Yes	Z N₀				
Is crossing flagged by train crew?	—— ——————————————————————————————————	Yes	⊿ %₀				
Other		Yes	□ No	N	Δ		

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	A STATE OF THE STA
Is sidewalk present? No Yes	
Is there a nearby intersection that could cause queuing over the c	crossing? No Yes
If yes, Distance	
is this intersection signalized? No Yes	
Are the signals currently interconnected with the existing cross	sing warning devices? Tho Yes
Is there a 'Do not Stop on Track' sign? 🔄 No 🔠 Yes	
location in the foreseeable future? No Yes If yes, Improvement type Lead Agency Lead Agency Agency The foreseeable future? The foreseeable future? No Yes Yes	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	
Open Space Institutional Location of nearb	y schools:
☐ Industrial ☐ Commercial	•
□ Residential 2-3 ν	1/45
Utility Information	
Is commercial power available? No Yes Utility Provider (Company Name) Logan Conty Newson Available Reven Severe	
Is commercial power available? No Yes	CO-0= Phone Number 937-592-4781
Utility Provider (Company Name)	Phone Number 931-312-1181
Nearest Available Power Source OCOSS i	<u>ng</u>
What other utilities are present?	
(add locations to sketch)	1587 PR 32N
Is(are) there potential utility conflict(s) Tes No	MUNKNOWN 1587 (R 32N) BENEFONTAINE, OH 43311
Comments:	process thing on 7 son
v .	

Diagnostic Team Recommendations	
	Quadrants Needed
Installupgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	
AFLS / Gates	
AFLS / Gates / Cants	
Bells / number	
Upgrade circuitry / type	
☐ Sidelights	
Guardrail Needed	
☐ Install/Replace curb	
Bungalow placement & offset from rail & highway	
Other (define)	
Bungalow in SW Quac Foundation to be set (0)	L' from Force of to- 1000
☐ Install/upgrade traffic signal preemption	Tom range Or Tractice
□ No improvements needed	
Other (define)	
Acknowledgement of Recommendations (each entity represented acknowledgement):	at the diagnostic must have at least one signature
A Commence of the second secon	
Vite pierre Tod C	Jed -
	<u> </u>

Field Sketch
Include utilities as marked by OUPS and LHA; include ROW boundaries as indicated by railroad and LHA.
See attached map from google earth Crossing Angle 0-29° 030-59° 60-90° Measured in Quadrant?
Crossing Angle 0-29° 30-59° 60-90° Measured in Quadrant?
Skoadh hu
Sketch by:



Google earth feet 100 meters 30

Martin, George

From:

newtin@oups.org

Sent:

Tuesday, November 01, 2011 8:24 AM

To:

Martin, George

Subject:

OUPS EMLCFM 2011/11/01 #00085A A130500279-00A ROUT NEW LREQ

EMLCFM 00085 OUPSa 11/01/11 08:23:37 A130500279-00A ROUT NEW POLY LREQ

Ticket: A130500279 Rev: 00A Taken: 11/01/11 08:21 AM Channel:

State: OH Cnty: LOGAN State: OH Cnty: LOGAN

Place: PLEASANT TWP Place: HARRISON TWP

Address: Street: TWP RD 33

Cross 1 : CTY RD 11

Intersection: N

Rail/Hwy: RR Milemarker(s):

: ENTIRE INTERSECTION OF TWP RD 33 AND THE CSX RAILROAD CROSSING - NEED

: 50 FT EAST AND 50 FT WEST OFF OF TWP RD 33 AT RAILROAD TRACKS

: THESE TRACKS ARE LOCATED JUST SOUTH OF CTY RD 11

WorkType: RAILROAD SIGNAL WORK

Done for:

Done by : CSX RAILROAD Whitelined: N Blasting: N

Means of Excavation: DIRECTIONAL BORE AND BACKHOE

Work date: 11/09/11 09:00 AM Meet: N

Best Fit: 40.347567/-83.877238 40.348332/-83.865793

: 40.338825/-83.876654 40.339589/-83.865209

Comments:

Company: PUCO

Caller : GEORGE MARTIN

Phone: 614-752-9107

Type: CONT

Co addr : 180 E BROAD ST

St: OH Zip: 43215 : COLUMBUS

Email: GEORGE.MARTIN@puc.state.oh.us

Members:

DPL =DAYTON POWER & LIGHT LGC =LOGAN CTY ELECTRIC COOP

LOE **=LOGAN CTY ENGINEERS** UTCP =CENTURYLINK (FORMERLY EMBARQ)

Martin, George

From:

agt_comm@irth.com

Sent:

Tuesday, November 01, 2011 8:25 PM

To:

Martin, George

Subject:

Locating DP&L Owned Electric Lines

To: PUCO

Attn: GEORGE MARTIN

Voice: 6147529107

Fax:

Re:

Locating DP&L Owned Electric Lines

Dayton Power and Light is replying to your request to have our underground electric

facilities located.

Ticket: A130500279

County: LOGAN

Place: PLEASANT

Address: TWP RD 33

DPL:

Dayton Power and Light has responded to your request for locating and has determined that your digging area is not in Dayton Power and Light's service

territory.

If you have any questions please call the Ohio Utilities Protection Service at 800-362-2764.

This message was generated by an automated system. Please do not reply to this email.

OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

TO: Leah Thomas-Dalton, Rail Division Chief, PUCO

FROM: Susan Kirkland, Manager, Safety Section, ORDC

BY: Joe Reinhardt, Project Manager, ORDC

SUBJECT: Crawford County, Orr Road, TR26

DOT 481582H, Norfolk Southern

DATE: May 30, 2012

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

STATE OF OHIO **PURCHASE ORDER**

PAGE:

1 of 1

OHIO DEPARTMENT OF TRANSPORTATION

P.O. DATE: 2/24/2012

ODOT P.O. NUMBER: 579921

DOCUMENT

TYPE:

CNTE

CHANGE ORDER: RR

OAKS P.O. NUMBER:

PID NUMBER	CONTRAC	T/BID/OIH	CONTROL BOARD NBR.	DOC. A	TNUOM
92935	DOTC17069	-1		\$250,	000.00
PROJECT NBR.	SIB LOAN NBR.	AGREEMENT NBR.	COUNTY	ROUTE	SECTION
			CRA	ORR	ROAD

VENDOR INFORMATION:

NAME:

NORFOLK SOUTHERN CORPORAT

OAKS VENDOR 0000085980

NUMBER:

ADDRESS:

PO BOX 116944

ADDRESS CODE: 001

CITY, STATE:

ATLANTA, GA

ZIP CODE:

30368-6944

DESCRIPTION:

RR CROSSING PROTECTION

LINE NBR	FUND	FISCAL YEAR	SAC	SPRC	RCAT	ACTIVITY	ACCOUNT CODE
01	7002	2012	4FP7	0003	NOCC	0071	573067
ELIGIBI	LITY	FAN		STATE	OB NBR	LINE	AMOUNT
E		DOT1E120 (000329	438	336	\$25	0,000.00

THE DIRECTOR OF BUDGET AND MANAGEMENT HEREBY CERTIFIES THAT THERE IS A BALANCE IN THE APPROPRIATION NOT ALREADY OBLIGATED TO PAY EXISTING OBLIGATIONS IN AN AMOUNT AT LEAST EQUAL TO THE PORTION OF THE CONTRACT, AGREEMENT, OBLIGATION, RESOLUTION OR ORDER TO BE PERFORMED IN THE CURRENT FISCAL YEAR.



OHIO RAIL DEVELOPMENT COMMISSION

1980 WEST BROAD STREET • COLUMBUS, OH 43223 JOHN R. KASICH, GOVERNOR • JAMES G. BRADLEY, ORDC CHAIRMAN

May 30, 2012

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

RE: Crawford County, Orr Road, TR26, DOT# 481582H

PID# 92935, NS Project 10.1363

Dear Ms. Wimberly:

The plan and estimate dated May 17, 2012, for the referenced project has been reviewed and is acceptable. 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 \$201,602.00. 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.

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.

Sincerely,

Joseph Reinhardt Project Manager

C: Leah Thomas-Dalton, Rail Division Chief, PUCO

George Martin, PUCO, Grade Crossing Planner

ORDC (file)

Attachment: 1 (encumbrance estimate)



Diagnostic Review Team Survey

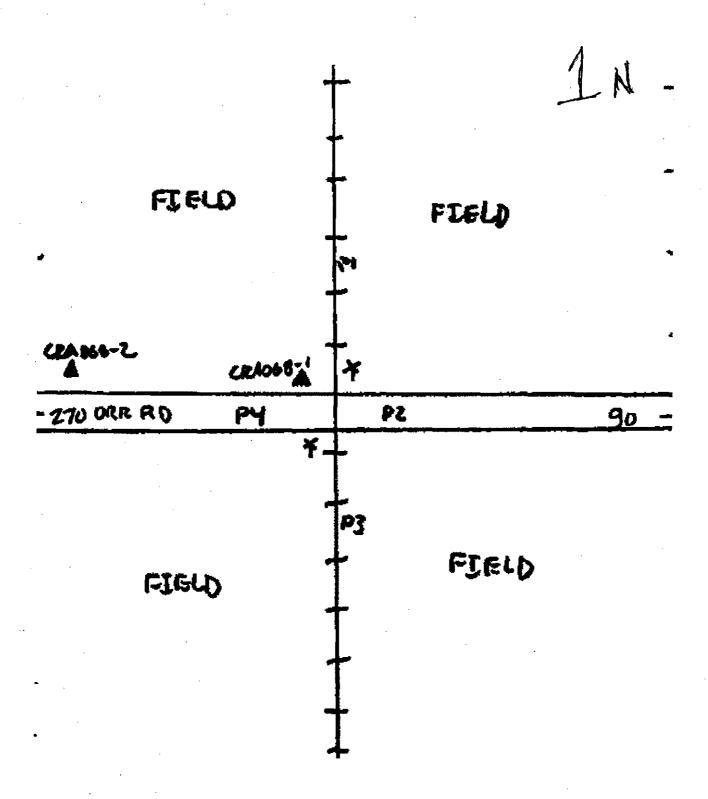
				Date: 1/26/2012	
Location Data					
Street or Road Name: Orr Road					
Route/Road Number (i.e. Twp., Co., SR or US)				US DOT No.: 481582	Н
County: Crawford (CRA)	rnship: Chatfield Tw	/P	City: (In or Near)	Chatfield	
Railroad Name: NS	Railroad Division:	LAKE		Branch/Line Name:	SANDUSKY
Nearest RR Timerable Station: Chatfield				RR Milepost: 72.13	
On-Site Review Team		- 6 3 %			
(Include: Name-Organization-Phone 1. Joe Reinhardt - ORDC - 614.5 2. George Martin - PUCO - 614. 3. RAY DATT ENSO! 4. Teley Leonhart 5. Lennyth Kall 6. A.J. Plase 7. 8. 9.	80.7728 - joe.reinhard 752.9107 - George.M PUO - 1241 Chaffield Chaffield Norfolk Sou	Laust Laust Laust Lausi Them	state.oh.us	Joe Rewoods Bur My A Burtly Jerry deorg Remoby Has Ay Ressar	
Type of Warning Devices		Installe		and the first section of the section	Comments
Advance Warning Signs (condition?)		/	ΠNo	-TWO C	
'Stop' Signs		Yes	1 1 No	<u> </u>	
'Stop Ahead' Signs		Yes	<u> </u>		
Pavement Markings (condition?)		Yes	Ū-N₀		
Crossbucks		Yes	□No	W CUT	VIEW
Number of Tracks Signs		Yes	☐ No.		
inventory Tags		Yes	₽ No		
Interconnected Highway Traffic Sign	nal	Yes	1-M6		
Mast-Mounted Flashing Lights		Yes	□-No		
Cantilever Flashing Lights		Yes	□-N₀	Number:	Length:
Side Lights		Yes	□ -N₀		
Automatic Gates		Yes	☑ No	Number:	
		1 4 4		(Additibe)	Length:
Bells] Yes	□ -₩₀	Number:	Length:
Sidewalk Gate Arms		Yes	⊡ 1No		Length:
Sidewalk Gate Arms 'No Turn' Signs		Yes Yes		Number:	Length:
Sidewalk Gate Arms 'No Turn' Signs Illumination		Yes	⊒100 □100 □ No		Length:
Sidewalk Gate Arms 'No Turn' Signs		Yes Yes	⊡√w ⊡√w	Number:	Length:

Safety Data (Obfain c	rash repo	rts, if possible, prior to review)	
		tial Information (from database)	Revised
Number & dates of crashes	0		
in previous 5 years			
Hazard Ranking	331	Date Run: 1/9/2012	
Railroad Data			
Railroad Characteri	stics	Initial Information (from database)	Revised
Total trains per day		30	
< 1 per day			
Day thru trains		14	
Night thru trains		14	
Daytime switching movem		0	
Nighttime switching mover	<u>ments</u>	2	
Total number of tracks	<u> </u>	,	
Number of main tracks Number of other tracks	 	1	
Maximum train speed		60	
Typical train speed		60	***************************************
Amtrak			<u> </u>
	na eight dietan	ce adequate in all quadrants? (See Table 1)	T√Yes □ No
			G (e2 140
!		ossing at the same time? Tes To	
Can one train block the moto	rists' view of	another train at crossing? 🔲 Yes (Explain be	elow) [TNo
Can one or more tracks be el	iminated thro	ugh the crossing? Yes	
Are there other track(s) cross	ing this same	roadway within 100 ft of this crossing?	Yes No
If yes, Crossing DOT #(if o			
If yes, distance	(take me:	asurement between track centerlines at close	est point along roadway)
Roadway Data			
Local Highway Authority:		Chatfield Twp	
Roadway Character	istics	Initial Information (from database)	Revised
Average daily traffic		129 (2006)	
Highway paved		⊠ Yes □ No	☐ Yes ☐ No
Roadway Surface: Blackto	p 🔲 Gravel	Concrete Other CNO Teal	
Roadway width: 00 ft.			
Number of highway lanes		1	
Urban or Rural	<u></u>	Rural	
Vehicle Speed: 55 MPH			
School Bus Operation: 🛛 No) Ye	esAmount	
Hazardous Materials Trucks:	∏ No	Yes Amount	
Shoulders: No	es		
Is the shoulder surfaced?	√ □	Yes	
Is there existing guardrail alon	g roadway in	crossing vicinity? No Yes	
Is stopping site distance adequ	ate? (See Tab	ole 2) Tes No If no, deficient:	approach(es)

Quadrant Curb and Gutter:	Quadrant Successful 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: Yes	
Is sidewalk present?	
Is there a nearby intersection that could cause queuing of lf yes, Distance	over the crossing? Tho Yes
Is this intersection signalized? No Yes	
Are the signals currently interconnected with the exis	ting crossing warning devices?
l	Yes
location in the foreseeable future?	anes, nearby new or upgraded traffic signal, sidewalk) planned at or near this
If yes, Improvement typeLead	AgencyTimeline/completion
Is it the consensus of the Diagnostic Review Team that Explain reasons:	this is a potential closure project: Ado Yes
Type of Development	
	n of nearby schools:
☐ Industrial ☐ Commercial	
Residential	
Utility Information	
is commercial power available? \(\square\) No \(\square\)	
Is commercial power available? No Yes Utility Provider (Company Name)	Phone Number 800 - 426 - 3072
Nearest Available Power Source At Cross	mi Site
	7 31.
What other utilities are present?(add locations to sketch)	
, ,	No □ Unknown
Is(are) there potential utility conflict(s) if es if es if the comments:	Zivo [] Ottkitowi
No.	illif center Electric Coop
	50 STUMP PIKE RDS
_	20 BOX 475
A	mca, of 44807
-	

Potential Red Flags / Project Challenges			
Traffic Signal Preemption (include traffic signal intersection nam	e and LHA with jurisdiction	n over traffic signal, if kno	own):
Crossing Consolidation or Closure:			
crossing consolidation or closure:			
Real Estate or ROW:			
Culverts / Drainage / Ballast Conditions:			
Roadway and/or Sidewalks:			
Circuitry (e.g. reaches out to other crossings, specific needs, et	(c.):		
nvironmental:	u		
Other:	<u> </u>		

Diagnostic Team Recommendations	
	Quadrants Needed
Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	
☑ AFLS / Gates	NE & SW
AFLS / Gates / Cants	
Beils / number	ONE
Upgrade circuitry / type	
Sidelights	
Guardrail Needed	
Install/Replace curb	
Bungalow placement & offset from rail & highway	Design Decision
Other (define)	
Reducing & Cris Walls	Headed
☐ Install/upgrade traffic signal preemption	
☐ No improvements needed	
Other (define)	
Acknowledgement of Recommendations (each entity represented	at the diagnostic must have at least one signature
Jerry Leonhart Clux Mi	
Kenneth Kalb	



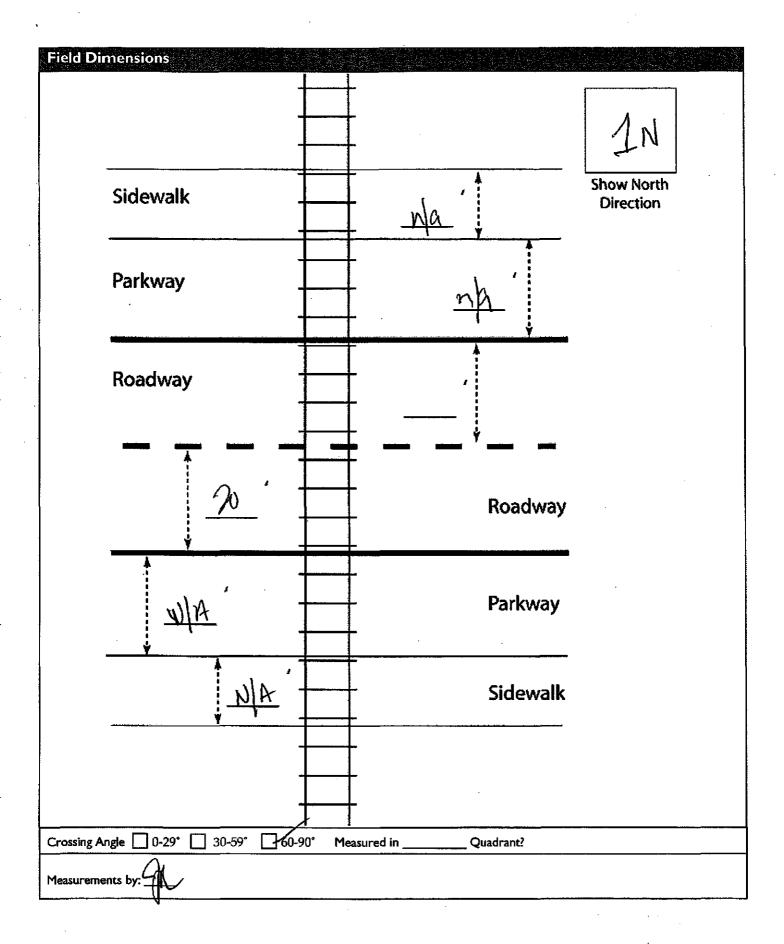


TABLE I

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
65 70 75 80 85	1560 1680 1800 1920 2040

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.