

FILE

13-1677-RR-FED

29

RECEIVED-DOCKETING

2013 JUL 24 AM 10:37

PUCO

**Public Utilities
Commission of Ohio**

Memo

To: Docketing Division
From: George Martin, Grade Crossing Planner, Rail Division
Re: In the matter of the authorization of RJ Corman Railroad (Western) to install an active grade crossing warning device in Allen County
Date: July 24, 2013

The Ohio Rail Development Commission (ORDC) has authorized funding for RJ Corman Railroad (Western) (RJCW) to install mast mounted flashing lights and roadway gates at the S Wapak Rd/TR 91, DOT# 261649F, grade crossing in Shawnee Township, Allen County. The crossing was surveyed on March 12, 2013, and was found to warrant the upgrade.

The project will be paid for with federal funds, and is actual cost. As the plan and estimate has already been submitted and approved, staff requests an Entry with completion of the project in nine months. Construction may commence at once. Staff requests that the following language be incorporated in the Entry:

It is expected that all work necessary for FHWA acceptance of the warning devices will be completed by the in-service due date and that the railroad will be responsible for this work. This work includes, but is not limited to:

Any ancillary work to make the warning devices function as designed and visible to the roadway user, and

MUTCD compliance, including minor roadway work if necessary.

A suggested case coding and heading would be:

PUCO Case No. 13- 1677 -RR-FED In the matter of the authorization of RJ Corman Railroad (Western) to install an active grade crossing warning device in Allen County

C: Legal Department

Please serve the following parties of record

This is to certify that the images appearing are an accurate and complete reproduction of a case file document delivered in the regular course of business
technician Ann Date Processed 7/24/13

Ms Cathy Stout

Ohio Rail Development Commission

1980 West Broad St, Mailstop #3140

Columbus, Oh 43223

Shawnee Township Trustees

2530 Ft Amanda Rd

Lima, Oh 45804

Ms Deborah Hawley

RJ Corman Railroad Group

PO Box 788

Nicholasville, Ky 40340

AEP

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

TO: Randall Schumacher, Supervisor, Rail Division, PUCO
FROM: Cathy Stout, Manager, Safety Section, ORDC
BY: Don Damron, Project Manager, ORDC
SUBJECT: Allen County, TR 91, S. Wapak Road
DOT# 261 649 F
PID# 95762
DATE: July 16, 2013

The Ohio Rail Development Commission (ORDC) established a diagnostic survey at the subject location on 3/12/2013. The Public Utilities Commission of Ohio (PUCO) 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 authorization is made with the stipulation and understanding that an approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit.

It is expected that all work necessary for FHWA acceptance of the warning devices will be completed by the in-service due date and that the railroad will be responsible for this work. This work includes, but is not limited to:

- any ancillary work to make warning devices function as designed and visible to the roadway user, and
- MUTCD compliance – including minor roadway work if necessary.

Thank you for your assistance with these matters.

Attachments:

Diagnostic Review
Plan & Estimate

c: George Martin, PUCO
ORDC Project Manager (file)



OHIO RAIL DEVELOPMENT COMMISSION

Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223

John R. Kasich, Governor • James G. Bradley, Chairman

July 16, 2013

Ms. Deborah J. Hawley
RJ Corman Railroad Group
PO Box 788
Nicholasville, KY 40340

RE: Grade Crossing Warning Device Improvement
Allen County, TR 91, S. Wapak Road
DOT# 261 649 F
PID# 95762

Dear Ms. Hawley:

The plan and estimate dated 5/20/2013, for the referenced project has been reviewed and is acceptable. RJ Corman Railroad Company 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 \$156,475.38 and is broken down as follows: \$122,579.38 for the signal installation, and \$33,896.00 for the roadway surface reconstruction. An additional cost related to the asphalt paving of the roadway surface is also anticipated and this and any other 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 RJ Corman Railroad Company accepting the following instructions:

1. RJ Corman Railroad Company's project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to Don Damron, ORDC, email don.damron@dot.state.oh.us, and to the Public Utilities Commission of Ohio at George.martin@puc.state.oh.us. RJ Corman Railroad Company'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. RJ Corman Railroad Company will coordinate with Shawnee Township and/or the Allen County Engineers office to finalize the construction schedule and coordinate the arrangements necessary to close Wapak Road, control traffic, and arrange for and complete the reconstruction of the roadway surface including any asphalt paving that will be required.



www.rail.ohio.gov

phone: 614.644.0306

IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY

3. RJ Corman Railroad Company 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 RJ Corman Railroad Company.
3. RJ Corman Railroad Company's project foremen will notify Don Damron at 614-917-8466 (mobile telephone) or don.damron@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. RJ Corman Railroad Company will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed ODOT Purchase Order to reference when billing.
5. RJ Corman Railroad Company 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.
6. Revise the plan, if the railroad right-of-way is adequate, to move the 6 X 6 Bungalow from the 15 feet from rail as illustrated on the plan dated 6/17/2013 to 25 feet from rail.

Thank you for your assistance with these matters.

Sincerely,



Donald J. Damron
Project Manager

C: Randall Schumacher, Supervisor, Rail Division, PUCO
George Martin, Grade Crossing Planner, PUCO
ORDC (file)



Ohio Rail Development Commission
1980 W. Broad Street, 2nd Floor
Columbus, OH 43223

Diagnostic Review Team Survey

Date: 3/12/13

Location Data

Street or Road Name: S. Wapak Road

Route/Road Number
(i.e. Twp., Co., SR or US) TR 91

US DOT No.: 261649F

County: ALL

Township: Shawnee

City:
(In or Near)

Lima

Railroad Name: R.J. Corman

Railroad Division: Western OH Line

Branch/Line Name: SPEG

Nearest RR
Timetable Station: Lima

RR Milepost: 57.1

On-Site Review Team

(Include: Name - Organization - Phone Number - Email)

1. George Martin, PUCO - 614-203-4714 *GM*

2. Zachary J. Gerdeman, Roadway Tech., Allen County Coll: (567) 204-2196.

3. Jim Boles / Supt. of Signals / RJ Corman RR - 502-507-9135

4. *MIKE FORTE* *ORDC*

614-374-9287

5. *Don McNamee* *Backeye Pipeline*

6. *Don Dameron* *ORDC*

614 466-2509

7. *Michael Keith* *ST Police Dept*

419-222-3211

8. *DAVE BELTON* *SHAWNEE TWP TRUSTEE*

419.991.8706

9. *Clark Rasmussen* *RJ Corman*

419-733-0549

Type of Warning Devices	Installed?		Quantity/Comments
Advance Warning Signs (condition?)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<i>2</i>
'Stop' Signs	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
'Stop Ahead' Signs	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Pavement Markings (condition?)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<i>Good</i>
Crossbucks	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<i>NEW VIEW</i>
Number of Tracks Signs	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Inventory Tags	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Interconnected Highway Traffic Signal	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Mast-Mounted Flashing Lights	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Cantilever Flashing Lights	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Number: Length:
Side Lights	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Automatic Gates	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Number: Length:
Bells	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Number:
Sidewalk Gate Arms	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
'No Turn' Signs	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Illumination	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Is crossing flagged by train crew?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Other	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<i>HIDDEN DRIVE</i>

Safety Data (Obtain crash reports, if possible, prior to review)		
	Initial Information (from database)	Revised
Number & dates of crashes in previous 5 years	0	1 in IN 2012 AT LEAST
Hazard Ranking	1314	Date Run: 3/5/13
Railroad Data		
Railroad Characteristics	Initial Information (from database)	Revised
Total trains per day	2	4 PER WEEK
< 1 per day		THRU
Day thru trains	2	
Night thru trains		
Daytime switching movements		
Nighttime switching movements		
Total number of tracks	1	
Number of main tracks	1	
Number of other tracks		
Maximum train speed	25	
Typical train speed		25 N
Amtrak		
If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table 1) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
If multiple tracks, can two trains occupy crossing at the same time? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Can one train block the motorists' view of another train at crossing? <input type="checkbox"/> Yes (Explain below) <input checked="" type="checkbox"/> No		
Can one or more tracks be eliminated through the crossing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Are there other track(s) crossing this same roadway within 100 ft of this crossing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
If yes, Crossing DOT # (if different) _____		
If yes, distance _____ (take measurement between track centerlines at closest point along roadway)		
Roadway Data		
Local Highway Authority:		Shawnee Township
Roadway Characteristics	Initial Information (from database)	Revised
Average daily traffic	2815 (2011)	
Highway paved	X Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Roadway Surface: X Blacktop <input type="checkbox"/> Gravel <input type="checkbox"/> Concrete <input type="checkbox"/> Other _____		
Roadway width: 18 ft. 22		
Number of highway lanes	2	
Urban or Rural	Rural	
Vehicle Speed: 45 MPH		
School Bus Operation: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes 11 Amount		
Hazardous Materials Trucks: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes _____ Amount		
Shoulders: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		
Is the shoulder surfaced? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		
Is there existing guardrail along roadway in crossing vicinity? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		
Is stopping site distance adequate? (See Table 2) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, deficient approach(es) _____		

Quadrant _____ Curb and Gutter: <input type="checkbox"/> Functional (Curb height = 4" or more) <input type="checkbox"/> Non-functional (Curb height = Less than 4") <input checked="" type="checkbox"/> None	Quadrant _____ Curb and Gutter: <input type="checkbox"/> Functional (Curb height = 4" or more) <input type="checkbox"/> Non-functional (Curb height = Less than 4") <input checked="" type="checkbox"/> None
Pedestrians: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Is sidewalk present? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Is there a nearby intersection that could cause queuing over the crossing? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If yes, Distance _____ Is this intersection signalized? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Are the signals currently interconnected with the existing crossing warning devices? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Is there a 'Do not Stop on Track' sign? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Is a roadway improvement project (e.g. widening, turn lanes, nearby new or upgraded traffic signal, sidewalk) planned at or near this location in the foreseeable future? <input checked="" type="checkbox"/> No <input type="checkbox"/> 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? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Explain reasons: _____	
Type of Development	
<input checked="" type="checkbox"/> Open Space <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Residential	<input type="checkbox"/> Institutional <input type="checkbox"/> Commercial Location of nearby schools: <u>2 mi SE</u>
Utility Information	
Is commercial power available? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Utility Provider (Company Name) <u>AEP or MIDWEST</u> Phone Number _____ Nearest Available Power Source <u>AT XING</u> What other utilities are present? <u>GAS/PETROLEUM CABLE + PHONE</u> (add locations to sketch) Is(are) there potential utility conflict(s) <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Unknown Comments: <u>OVERHEAD POWER</u> <u>UNDERGROUND GAS (DOMINION EAST OHIO)</u>	

Potential Red Flags / Project Challenges

Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known):

Crossing Consolidation or Closure:

Real Estate or ROW:

40' HIGHWAY 100' RR

Culverts / Drainage / Ballast Conditions:

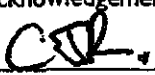
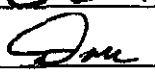
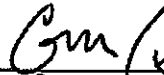
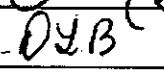

RR IS ON EMBANKMENT APPROX 20 FT ABOVE GRADE IN ALL QUADRANTS. ROADWAY ASSIGNS TO RR GRADE.

Roadway and/or Sidewalks:

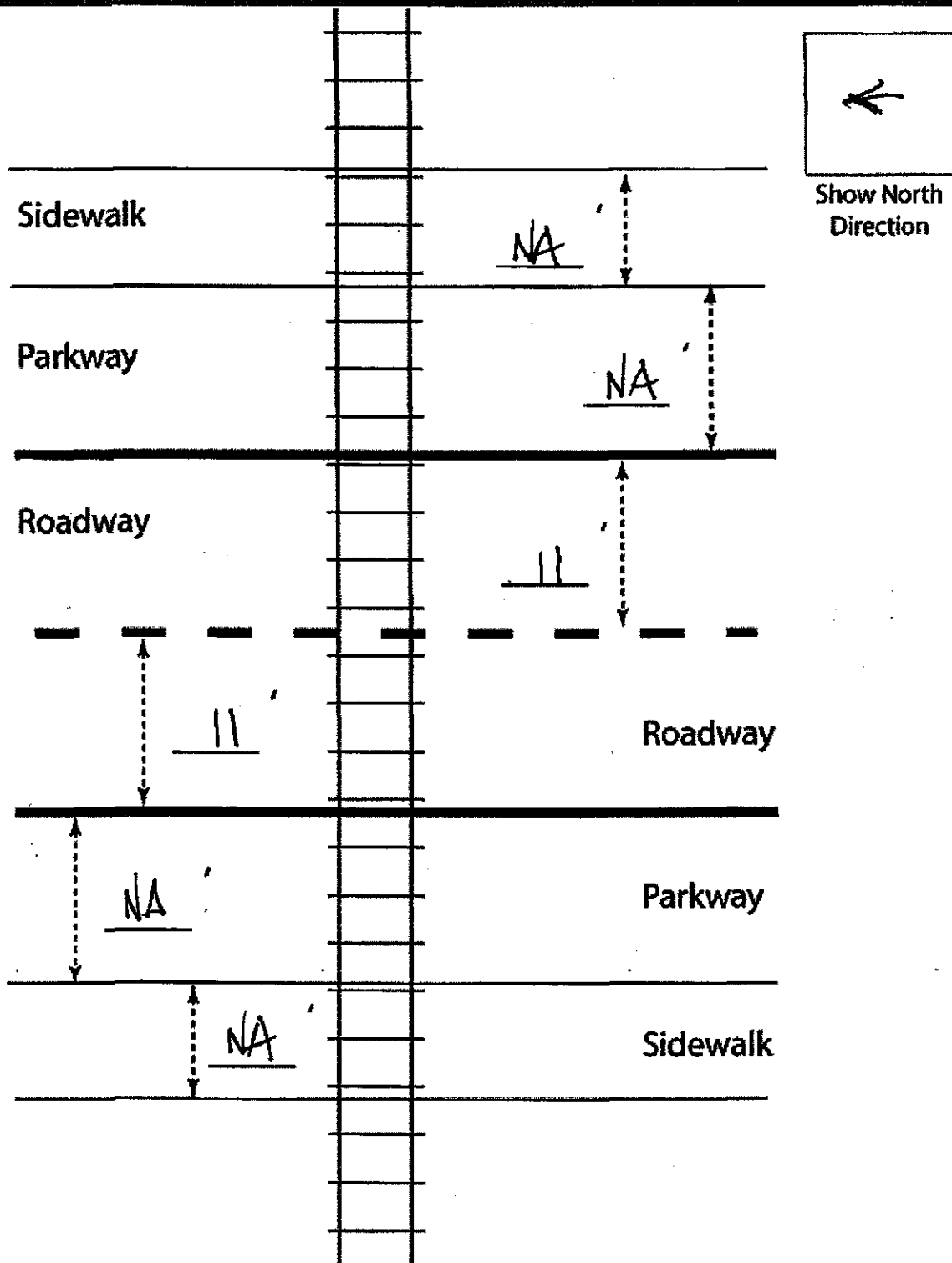
Circuitry (e.g. reaches out to other crossings, specific needs, etc.):

Environmental:

Other:

Diagnostic Team Recommendations	
<input checked="" type="checkbox"/> Install/upgrade active devices	Quadrants Needed
<input checked="" type="checkbox"/> Automatic Flashing Lights (AFLS)	
<input type="checkbox"/> AFLS / Cants	
<input checked="" type="checkbox"/> AFLS / Gates	NW SE
<input type="checkbox"/> AFLS / Gates / Cants	
<input checked="" type="checkbox"/> Bells / number	1 STOP RINGING WHEN GATES AR HORIZONTAL
<input type="checkbox"/> Upgrade circuitry / type	
<input type="checkbox"/> Sidelights	
<input type="checkbox"/> Guardrail Needed	
<input type="checkbox"/> Install/Replace curb	
<input type="checkbox"/> Bungalow placement & offset from rail & highway	
<input checked="" type="checkbox"/> Other (define)	ASPHALT + FLANGE SURFACE RELON. ISSUE
Comments:	
<input type="checkbox"/> Install/upgrade traffic signal preemption	
<input type="checkbox"/> No improvements needed	
<input type="checkbox"/> Other (define)	
Acknowledgement of Recommendations (each entity represented at the diagnostic must have at least one signature acknowledgement): <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div>   </div> <div>   </div> <div>  </div> </div>	

Field Dimensions

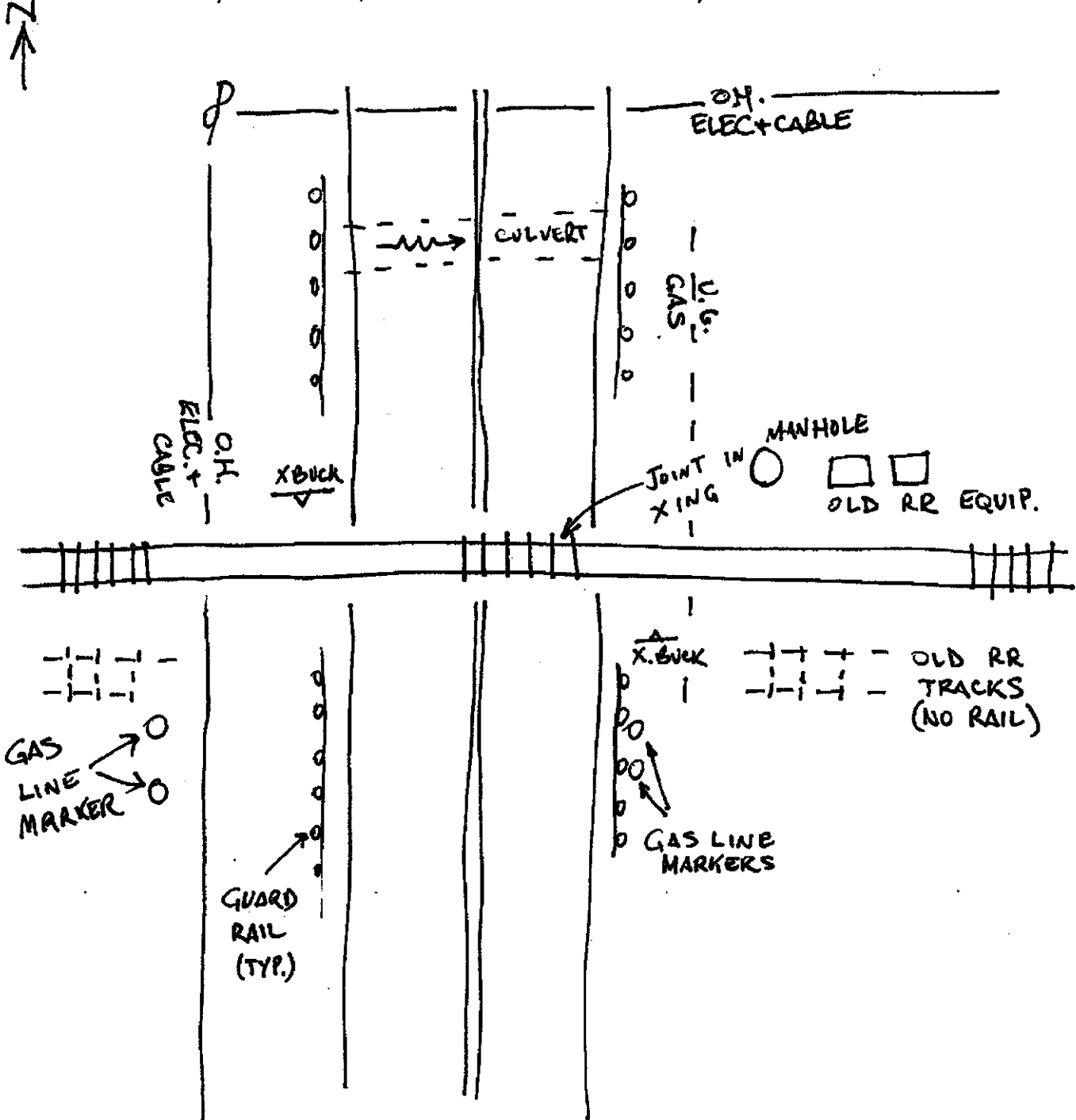


Crossing Angle ☐ 0-29° ☐ 30-59° ☒ 60-90° Measured in NE Quadrant?

Measurements by: MDF

Field Sketch

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



Crossing Angle ☐ 0-29° ☐ 30-59° ☒ 60-90° Measured in NE Quadrant?

Sketch by: MDF

TABLE 1**Clearing Sight Distances**

Maximum Authorized Train Speed	Distance (dT) Along Railroad from Crossing (ft)
1 - 10	240
15	360
20	480
25	600
30	720
35	840
40	960
45	1080
50	1200
55	1320
60	1440
65	1560
70	1680
75	1800
80	1920
85	2040
90	2160

Source: R-H Grade Crossing Handbook Table 36 (pp. 132-133)

Notes:

All calculated distances are rounded up to the next higher 5-foot increment.

Distances indicated are for 65-ft double bottom semi-tractor trailers and level single track 90 degree crossings; and may need to be adjusted for multiple tracks, skewed crossings or approaches on grades.

Clearing Sight Distance is to be measured in each vehicle travel direction at non-gated crossings as viewed from a point 25 feet from centerline of nearest track in the center of whichever travel lane is nearest the direction along track being measured.

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.

RJ Corman Railroad Company/Western Ohio
 County: Allen
 Location: Wapak Road/TR 91
 DOT#: 261649F

5/20/2013

Estimate for Signal Installation

Material	Quantity	Unit	Description	Unit Price	Extension
	1	Each	Signal Warning System Complete	\$ 116,904.38	\$ 116,904.38
Labor	Quantity	Unit			
	60	Hours	Supervisor/Laborer	\$ 60.00	\$ 3,600.00
	5	Nights	One Room/Lodging	\$ 85.00	\$ 425.00
	6	Days	Meals	\$ 25.00	\$ 150.00
Equipment	Quantity	Unit			
	60	Hours	Work Truck	\$ 25.00	\$ 1,500.00
Sub-total for Signal Installation					\$ 122,579.38

Estimate for Grade Crossing Surface

Material	Quantity	Unit	Description	Unit Price	Extension
	36	TF	Concrete 4' Panels	\$ 250.00	\$ 9,000.00
	120	Ft	115 RE New Rail (2 sticks in 60 Ft Pieces)	\$ 40.00	\$ 4,800.00
	40	Tons	Rock	\$ 26.00	\$ 1,040.00
	0	Keg	Spikes (50#)	\$ 35.00	\$ -
	20	Each	Ties (7x9 IG)	\$ 60.00	\$ 1,200.00
	100	Each	Anchors (115#)	\$ 2.30	\$ 230.00
	4	Each	Field Welds	\$ 140.00	\$ 560.00
	1	Keg	Track Bolts w/ Washers (50/keg)	\$ 175.00	\$ 175.00
	0	Each	115re 19' 6" glued joints	\$ 1,800.00	\$ -
Labor	Hours				
	20	1	Supervisor	\$ 55.00	\$ 1,100.00
	20	4	Laborers	\$ 35.00	\$ 2,800.00
	20	1	Operator	\$ 40.00	\$ 800.00
	20	1	Welder	\$ 45.00	\$ 900.00
	2 days	7	Meals	\$ 25.00	\$ 350.00
	4 rooms	2 nights	Lodging	\$ 60.00	\$ 480.00
Equipment	Hours				
	20	1	Backhoe	\$ 53.55	\$ 1,071.00
	20	1	Prentice Truck	\$ 107.00	\$ 2,140.00
	0	1	Trackhoe	\$ 150.00	\$ -
	20	2	P/U Truck (F-250)	\$ 24.00	\$ 960.00
	20	1	Dump Truck	\$ 83.00	\$ 1,660.00
	10	1	Roller	\$ 59.00	\$ 590.00
	20	1	Work Truck (F-550)	\$ 44.00	\$ 880.00
	20	1	Backhoe Trailer	\$ 8.00	\$ 160.00
	0	1	Mark IV Tamper	\$ 300.00	\$ -
	0	1	Ballast Regulator	\$ 200.00	\$ -
	1	LS	Mobilization	\$ 3,000.00	\$ 3,000.00
Sub-total for Grade Crossing Surface					\$ 33,896.00

Project Total: \$ 156,475.38

* Labor & Equipment costs are based on 8-hr days.

* R.J. Corman is NOT responsible for paving or traffic control.



GE Transportation

Franklin Reynolds
Commercial Operations Leader

GE Transportation Systems Global Signaling, LLC
2712 Dillingham Rd
Grain Valley, MO 64029

T 203 522 7900
Franklin.Reynolds@ge.com
<http://www.getransportation.com/>

Mr. Jim D. Boles
RJ Corman Railroad Corporation
101 McKenna Way
Bardstown, KY 40004
Email: jimandbonnieboles@hotmail.com

April 4, 2013

REF: RJ Corman-Wapak Road
QN: 2013-025435

Dear Mr. Jim Boles,

In response to the RJ Corman Railroad Corporation request, GE Transportation Systems Global Signaling, LLC (GETSGS) is pleased to provide a proposal for the RJ Corman-Wapak Road project.

The proposed equipment, services and application engineering are described below, and the accompanying material list that identifies the proposed equipment and quantities is attached hereto.

Wapak Rd. Lima, OH

GETSGS Total Quoted Price including freight to location is: **\$116,904**. Please review the accompanying material list that indicates the items we propose to furnish at the stated price.

Total Material Price	\$ 66,745.43
Control Shelter Wiring	\$ 7,115.40
Application Engineering	\$ 5,004.00
Shipment	\$ 2,858.82
Installation Service	\$ 35,180.72
Total	\$ 116,904.38

GETSGS' total quoted price for your solution is set out herein in U.S. Dollars, shipment shall be per Incoterms 2010 FOB jobsite, and is exclusive of all taxes, tariffs, licenses, bonds, and permits as stated in the section of 2 and 4 of the Standard Terms and Conditions of Sale. This proposal will remain valid for sixty (60) days from the date of this letter.

Delivery is estimated to be approximately 90 days after receipt of a purchase order and the finalization of engineering details, but actual delivery times may vary.



Mr. Jim D. Boles
2013-025435
Page 2 of 4

Payment terms are net thirty (30) days. Please reference 2013-025435 when ordering this equipment. Faxed purchase orders should be sent to Kelly Pollard at (866) 481-9910. Mailed purchase orders should be sent to:

GE Transportation Systems Global Signaling, LLC
Attention: Kelly Pollard
2712 S. Dillingham Rd.
Grain Valley, MO 64029

GETSGS welcomes the opportunity to provide a solution to your transportation needs. If you have any questions or require any further assistance, please feel free to contact us.

Thank you,

A handwritten signature in black ink, appearing to read 'Franklin Reynolds'.

Franklin Reynolds
Commercial Operations Leader

Enc. Material List

cc: Paul Klienhenz
Eduardo Luckie
Melissa Weiler
Kelly Pollard

General Proposal Terms:

1. This quotation is a financial proposal and is predicated upon your acceptance of our current Standard Terms and Conditions of Sale. Acceptance of this proposal by you shall form a legally binding contract. Standard Terms and Conditions of Sale can be viewed at https://customer.gettransportation.com/public/signaling/GS_Sales_Terms.pdf.
2. Equipment will be invoiced at the quoted price when shipped, and/or Services will be invoiced at the quoted price when delivered.
3. GETSGS reserves the right to subject orders to a credit limit or other approved terms of payment.
4. In the event there are any discrepancies between your specification and the proposed solution, GETSGS agrees to work with you in an effort to find a mutually satisfactory solution to your transportation needs.
5. Please note that whenever GETSGS is referred to in this proposal, it is understood to mean GETSGS and/or one or more of GETSGS's affiliated entities, and GETSGS have one or more of GETSGS's affiliated entities enter into relevant contractual documentation and/or provide some or all of the products and services to be provided.



Mr. Jim D. Boles
2013-025435
Page 3 of 4

Location/Description	QTY		GETSGS-PN
Wapak Rd			
Control Shelter			
HSE 6X6 AL S/L SKR101 L/EPD/KY	1	EA	028633-020
PROTECTOR SURGE TVSS TLE 120S	1	EA	010217-100
ASSY SCX-1 CONFIG A W/STD XING	1	EA	800-087051-007
ASSY BSA-4	1	EA	250597-000
ASSY XLC TOP LEVEL	2	EA	250991-000
ASSY PLUGBOARD XLC	2	EA	251071-100
CHARGER 20A 12V CRAGG 20ETC12V	1	EA	017061-201
CHARGER 40A 12V CRAGG 40ETC12V	1	EA	017061-203
HIGHWAY CROSSING MONITOR SYSTEM	1	EA	180394-MON
MONITOR LOW VOLT BATT 12V DBL	1	EA	017225-005
XFMR 115-230VPRI/16VCT 5A 80VA	1	EA	016206-105
RLY DPDT 12VDC 5A OCT	1	EA	007192-032
SCKT RLY 8-PIN OCT SCREW PNLMT	1	EA	132246-001
ASSEMBLY, 4 POST TERMINALBLOCK	36	EA	203032-000
ASSY AGA-1	40	EA	202216-001
ASSY AGE-1	5	EA	202217-000
RES VAR ADJ 4 OHM 1.94AMP	4	EA	002014-014
RLY ST 500 OHM NEUT 4FB-2F-1B	1	EA	007149-003
RLY ST 194 OHM 3 SEC SR 4FB	1	EA	007149-011
RLY ST PLBD W/O TERM	2	EA	007149-100
KIT RLY FL E-POST MOD W/S STUD	2	EA	005634-000
NUT INSULATED HARMON	28	EA	013986-000
TEST LINK W/PLT & INSUL	88	EA	032257-002
ASSY SINGLE ROW TERM 12 POST	1	EA	250084-212
WIRE 16AWG/19 EPR NYL BRD CASE	450	FT	012236-000
WIRE 10AWG/37 EPR NYL BRD CASE	650	FT	012236-004
WIRE 6AWG/19THHN BLK	240	FT	012253-000
WIRE 6AWG/19 THHN GRN	40	FT	012253-002
CABLE RAW 3/14AWG PWR 300V	10	FT	012690-010
CONN PLUG L6-15 250V 15A 2P3W	2	EA	132286-001
ASSY 2WAY TERM BLK W/AAR HARD	5	EA	202810-000
ASSY TERM STRIP DBL POST 12	6	EA	250094-300
GROUND POST P5-162	3	EA	113047-000
ASSY LIGHT PO EXT-GEMS	1	EA	201744-001
WRENCH AAR TERMINAL	1	EA	095905-000
WRENCH RLY TST E-POST	1	EA	095605-000
LABEL RK PNL-LAMP LIGHTING RES	1	EA	125371-000
LABEL, DANGER 240 V, 1.75 X 2.	1	EA	SQS109
THERMOSTAT SPDT REMOTE BULB 8A	1	EA	009186-004
KIT SM PRTS GENERIC	1	EA	180394-XXX
KNIFE SWITCH	1	EA	009291-10X
Field Material			



Mr. Jim D. Boles
2013-025435
Page 4 of 4

FND SIGNAL 32 X 32 X 60	2	EA	17190-4
GATE ASSY 3593B CTWT 16-32'	2	EA	076037-018
HEATER FOR GATE MECH 110V **	2	EA	4137-01
MAST AL 5" X 14' M90R X-NONE	2	EA	51105-01
BASE 5" JCT BOX 32 TERM	2	EA	022603-011
KIT FOUNDATION LEVEL BOLT	8	EA	180554-000
LENS LED FLASHING 12" RED	8	EA	180572-006
GATE KEEPER SK1000-2W DUAL DIR	2	EA	076007-005
GATE ARM 19-24' AG HI GSI	2	EA	076045-021
LIGHT KIT GATEARM 3 4" W/WIRES	2	SE	076084-000
WRENCH TORQUE WCH 3590-K-9	1	EA	095936-001
SIGN XING S-F HI 5"MTG SIG/GAT	2	EA	60007-05
BELL LOUD 5" OR 4" MAST MTG	2	EA	1450-01
CABLE UG 3 COND #4 AWG	75	FT	5192-02
CABLE UG 5 COND #6 AWG SOLID	325	FT	1076-02
CABLE UG 7 COND #14 AWG SOLID	325	FT	1023-02
CABLE UG 3 COND #9 AWG SOLID	325	FT	1078-02
WIRE UG TRK #6 AWG DUPLEX	350	FT	1094-02
BATT GNB 50A11 1 CELL	7	EA	017134-104
BATT GNB 50A13 1 CELL 320AH	6	EA	017134-105
ASSY RING-10	3	EA	800-004080-000
WIRE #6 SOFT BARE COPPER	40	FT	1436-01
ROD 5/8 X 8 NS GRD ***	4	EA	1357-01
CLAMP GROUND FOR 5/8 ROD	4	EA	1359-01
BOND JOINT 3/16" X 6-1/2" XS	135	EA	1072-01
BOND JOINT 3/16"X48"XS SBXS	135	EA	005712-010
BOND STRAND 8-STR 3/16" TINNED	75	FT	4133-01
BOOTLEG BOND W/COUPLER KIT	12	EA	3522-01
TAPE ELECTRICAL 3M #33+ 3/4"	4	RL	1190-01
TAPE ELECTRICAL 3M #130-C	4	RL	1321-01
COMPOUND INSULATING ELECTRICAL	1	EA	4123-01
HOSE RUBBER 3/4"	60	EA	005360-015
STAPLE GROUND WIRE 1-1/16"X3"	18	EA	113005-000
TIE CABLE .184 X 7.31" HIG TEM	40	EA	4125-01
LUG RNG 1/4" 12-10AWG INS BLK	40	EA	032114-008
WIRE DIESEL 10AWG 2000 VOLTS	400	FT	2125-01
STAPLE COPPERWELD 3/8 X 1-3/4	60	EA	1148-01
GREASE RUST PREVENTIVE NO OXID	1	EA	1906-01
SLEEVE NICO 3/16"-#6 AWG REDUC	6	EA	1145-01
CLIP TRACK WIRE RETAINER	12	EA	1118-01
INSULATED RAIL JOINT	8	EA	N/A CUST
COMPOUND DUCT SEAL 5 LB PLUG	3	PK	1179-01
LOCK BRONZE HEX SAFETRAN	5	EA	005778-005
TRAY BATT 12X24 POLYETHYLENE	4	EA	040231-000
Field Cable Tag Kit	1	EA	180394-FTG



Quote 1

4/15/13

Account: RJ Corman

Western Ohio Line / Walpak Road/TR 91

Material	\$97,400.00
Shop Labor	\$1,700.00
Engineering	\$2,900.00
Install	\$33,600.00
Total Signal Cost	\$135,600.00
Freight	\$3,600.00
Total Cost	\$139,200.00

Cleveland Lin / Wooster Ave. /SR 800

Material	\$104,400.00
Shop Labor	\$ 1,700.00
Engineering	\$ 2,900.00
Install	\$ 38,500.00
Total Signal Cost	\$147,500.00
Freight	\$ 3,600.00
Total Cost	\$151,100.00

Thank you
Matthew Bolte
Packaged Solutions Manager
RJ Corman Signaling, LLC
101 RJ Corman Drive
PO Box 788
Nicholasville, KY 40340
Matthew.Bolte@RJCorman.com
(502) 689-6675 Cell

Factory Wired Instrument Shelter-Wooster Avenue (Material & Installation)			
ITEM DESCRIPTION	O.E.M.	QTY	U/M
Alum. 6" x 8" Shelter Vt.P.O. LTS & C.E. Pipes, w/Relay Bar & Heater	PTMW	1	EA
SCX-1 "A" Unit For Standard Crossing	GETS GS	1	EA
Crossing Lamp Controller (XLC)	GETS GS	3	EA
Plugboard Kit For XLC	GETS GS	3	EA
Track Rectifier, Ring 10	GETS GS	3	EA
ST-1 Relay Socket w/Test Posts, 10-14 crimp	SAFETRAN	2	EA
Relay, ST-1, 4FB-2F-1B, 500ohm	SAFETRAN	2	EA
Resistor, Adjustable, 2.5 Ohms	SAFETRAN	2	EA
Resistor, Adjustable, 1.3 Ohms, H. D.	SAFETRAN	8	EA
Lighting Arrestor, Clearview	SAFETRAN	20	EA
Heavy Duty Equalizer	SAFETRAN	5	EA
AC Line Surge Protector, Model SP-20A	SAFETRAN	2	EA
#18 TC Blue Flat Wire	BURCO	700	FT
#14 TC Blue Flat Wire	BURCO	600	FT
#10/12 AMP Eyelets	SAFETRAN	150	EA
#14/16 AMP Eyelets	SAFETRAN	100	EA
Power Off Transformer, 120V / 12V	Master Dist.	1	EA
Battery Charger, 20ETC-12V	RECO	2	EA
Knife Switch Crossing Cut-Out Switch	Radio Shack	1	EA
4 Post Terminal Block w/Hardware	ERICO	20	EA
Push Button Box w/Terminals only	L&W	1	EA
Tags, Slip On	ACE	0.5	Roll
Stick-On Stencil	Cadillac Sign Co.	2	EA
Bond Strand, Erico# SBS6TUNS664	BURCO	200	FT
Test Link, 1" Offset w/Gold Nut	L&W	50	EA
Gold Terminal Insulated Nut	L&W	50	EA
Terminal Block, 2 x 6 w/flat nut only	L&W	5	EA
Terminal Block, 2 post 2-3/8" w/flat nut only	L&W	8	EA
#6 Non-Insulated Terminal Eye 1/4 stud	L&W	30	EA
#6 Non-Insulated Terminal Eye 5/16 stud	L&W	30	EA
Binding (Barrel) Nuts	L&W	150	EA
Maintainer Test Switch, 3 post test terminal	L&W	1	EA
Strap, Solid, 1" Centers	L&W	30	EA
Strap, Solid, 2-3/8" Centers	L&W	3	EA
Bliss Strap, 1" Centers, 12 Hole	L&W	2	EA
Circuit Plan Holder	Village Supplies	1	EA
FWIS Misc. Package	Progress	1	Lot
Cantilever Material-Wooster Avenue (Material & Installation)			
ITEM DESCRIPTION	O.E.M.	QTY	U/M
Electronic Bell, 5" MTG	WCH	2	EA
12" Head w/24" Background & Hood (Painted AL)	WCH	20	EA
Terminal For LED Hook-up (For larger ROG & GE LED)	ROG	25	EA
EVERRAY LED Flashing Light Unit (12") w/Sideights	Progress	1	EA
Cart, 22" w/angle 10" Mast, Pinn., Junct. Box & BPS	Progress	1	EA
Cart, 28" w/angle 12" Mast, Pinn., Junct. Box & BPS	Progress	1	EA
Wiring Harness for 22" Cantilever (Mast, Lane & Tip)	Progress	1	EA
Wiring Harness for 28" Cantilever (Mast, Lane & Tip)	Progress	1	EA
Pinnacle, 5'-10" Adapter for Bell	Progress	1	EA
Pinnacle, 5'-12" Adapter for Bell	Progress	1	EA
2-Way Cross Arm Assembly Less Heads, Cantilever Mast Mtg. w/Hdw.	Progress	2	EA
2-Way Cross Arm Assembly Less Heads, Cantilever Tip Mtg.	Progress	2	EA
1-Way Cross Arm Assembly Less Heads, Cantilever Lane Mtg.	Progress	2	EA
4" Crossarm Assembly Mounting Kit	Progress	4	EA
Arm Mounting Bracket	Progress	2	EA
Cart, Mast Mounting Kit for Railroad Crossing Signs	Progress	2	EA
Railroad Crossing Sign, HJ	Progress	4	EA
#10/12 AMP Eyelets	Safetrans	80	EA
#10/12 TC Blue Wire	BURCO	100	FT
Misc. Signal Material	Progress	1	EA

Ground Material-Wooster Avenue (Material & Installation)			
ITEM DESCRIPTION	O.E.M.	QTY	U/M
Insulated Terminal Wrench, 1/2" / Triange	Velcomp/Gems	1	EA
Plugboard Terminal Wrench	SAFETRAIN	1	EA
Battery, 264 Amp Hour	GNB	12	EA
Color Outdoor Bullet Camera	Crest Electronics	1	EA
Vortex Microphone	Crest Electronics	1	EA
12 V DC-500mA Transformer	Crest Electronics	2	EA
DVR	Loxex	1	EA
5' Mini Cable w/BNC's	Crest Electronics	2	EA
5' Mini Cable w/BNC's	Crest Electronics	1	EA
BNC Female to BNC Male	Crest Electronics	2	EA
Video to VGA Converter	Crest Electronics	1	EA
19" TFT LCD Monitor	Local	1	EA
Foundation, 3 IP, Cantilever, Single 6"	Progress	2	EA
Track Cable, #6 Tw. Pr. (113-12-3833)	Okonite	500	FT
Signal Cable, 5C #6 AWG (206-11-4245)	Okonite	400	FT
AC Cable, 3C #6 AWG (206-11-4245)	Okonite	100	FT
Railroad Emergency Contact Sign - FNRR	Lyte Signs	2	EA
Hex. Railroad Lock	Safetran	3	EA
Copperweld Ground Rod, 5/8" X 8'	Erico	4	EA
Cadweld One Shot, 5/8"	Erico	4	EA
Cadweld Rail Bonds, 3/16" x 7-1/2" X 5	Erico	150	EA
Track Connector, Web	Erico	12	EA
Track Connector, Web	Erico	150	EA
Track Wire Retainer Clip, Erico #SBA248B	Burco	12	EA
PVC Sch. 80 Conduit	SAS	120	FT
AC Meter Base, Breaker Box, W.H. & Pole	Commercial	1	EA
Concrete, 4000 psi	Local	12	YD
Dress Stone	Local	1	EA
Wheel, grinding 1" X 8"	Erico	1	EA
3/8" Bonding Wheel Shank	LEW	1	EA
Reducing Sleeve, 3/16" - #8 Tinned	L&W	12	EA
Splicing Sleeve, 3/16" - 3/16" Tinned	L&W	12	EA
Tubing 1"	Local	12	FT
Staples	Local	50	EA
Galvanized Nails	Local	12	EA
Clip for Tubing 1"	Local	6	EA
Heat Shrink Tubing	Local	3	EA
Gout Seal	Local	10	LB
Electrical Tape	Local	3	EA
Bond Strand, Erico SBS8TUN544	Burco	75	FT
No Oxide Grease	Safetran	1	EA
#6 Bare Copper	Granger	50	FT
Field Material Misc. Package	Progress	1	Lot
Insulated Rail Joints 100# Fiber	3M	8	EA
Line Item Scope			
Material		\$ 104,400.00	
Shop Labor		\$ 1,700.00	
Engineering		\$ 2,800.00	
Install		\$ 38,600.00	
Total Signal Cost		\$ 147,500.00	
Freight		\$ 3,800.00	
Total Cost		\$ 151,300.00	

Ground Material-Wapak Road (Material & Installation)			
ITEM DESCRIPTION	O.E.M.	QTY	UNIT
Insulated Terminal Wrench, 1/2" / Triangle	Velco/Gems	1	EA
Recharge Terminal Wrench	SAFETRAN	1	EA
Battery, 264 Amp Hour	GNS	6	EA
Battery, 312 Amp Hour	GNS	7	EA
Color Outdoor Bullet Camera	Crest Electronics	1	EA
Verifac Microphone	Crest Electronics	1	EA
12 V DC-600mA Transformer	Crest Electronics	2	EA
DVR	Local	1	EA
6 Mini Cable w/BNC's	Crest Electronics	2	EA
3 Mini Cable w/BNC's	Crest Electronics	1	EA
BNC Female to RNC Male	Crest Electronics	2	EA
Video to VGA Converter	Crest Electronics	1	EA
15" TFT LCD Monitor	Local	1	EA
Gate Lights, 6 ea, complete, less wire w/LED	GEMS	1	EA
60" Tall Galv. Steel Gate Foundation w/32" Square Base	Progress	2	EA
Gate Arm 22 HWY, A1 bulb sec, Fg 2nd/3rd sec (Hd In/Out)	NEG	2	EA
Gate Arm Light Wire 3C614	NEG	50	FT
Track Cable, #6 TW, Pr. (113-12-3933)	Oxante	350	FT
Signal Cable, 5/C # 6 AWG (205-11-6246)	Oxante	350	FT
Signal Cable, 7/C #14 AWG (205-11-5587)	Oxante	350	FT
AC Cable, 3/C # 6 AWG (205-11-6245)	Oxante	100	FT
Railroad Emergency Contact Sign - FNRH	Lyle Signs	2	EA
Misc. Railroad Lock	Safetrans	5	EA
Copperweld Ground Rod, 5/8" X 6'	Enco	4	EA
Cadweld One Shot, 5/8"	Enco	4	EA
Cadweld Rail Bonds, 3/16" x 7-1/2" X8	Enco	180	EA
Track Connector, Web	Enco	12	EA
Track Connector, Web	Enco	150	EA
Track Wire Retainer Clip, Enco 4SBA248B	Bump	12	EA
PVC Sck, 80 Conduit	B&S	60	FT
AC Meter Base, Breaker Box, W.H. & Poles	Commercial	1	EA
Drill Stone	Local	2	EA
Wheel grinding 1" X 6"	Enco	1	EA
3/8" Bonding 24x24 shank	LAW	1	EA
Reducing Sleeve, 3/16 - #6 Tinned	LAW	12	EA
Splicing Sleeve, 3/16 - 3/16 Tinned	LAW	12	EA
Tubing 1"	Local	12	FT
Staples	Local	50	EA
Galvanized Nails	Local	12	EA
Clamp tubing 1"	Local	8	EA
Heat Shrink Tubing	Local	3	EA
Duct Seal	Local	10	LB
Electrical Tape	Local	3	EA
Bond Strand, Enco 6SBS8T LMS664	Enco	75	FT
No Oxide Grease	Safetrans	1	EA
#8 Bare Copper	Granger	60	FT
Field Material Misc. Package	Progress	1	Lot
Insulated Rail Joints 100# Fiber	SM	8	EA
Line Item Scope			
Material		\$	97,400.00
Shop Labor		\$	1,700.00
Engineering		\$	2,900.00
Install		\$	35,600.00
Total Signal Cost		\$	135,600.00
Freight		\$	3,600.00
Total Cost		\$	139,200.00

Factory Wired Instrument Shelter-Wapak Road (Material & Installation)			
ITEM DESCRIPTION	O.E.M.	QTY	U/M
Alum. 6"x8" Shelter W/P.O. L.T.S. & C.E. Pipes, w/Relay Bar & Heater	PTMAW	1 EA	
SOX-1 "A" Unit For Standard Crossing	GETS GS	1 EA	
Crossing Lamp Controller (RLC)	GETS GS	3 EA	
Plugboard Kit For RLC	GETS GS	3 EA	
Track Rectifier, Ring 10	GETS GS	3 EA	
ST-1 Relay Socket w/Test Posts, 10-14 crimp	SAFETRAM	2 EA	
Relay, ST-1, 4PB-2F-1B, 600ohm	SAFETRAM	1 EA	
Relay, ST-1, 4PB-1B4ohm SR, 3 amp	SAFETRAM	1 EA	
Resistor, Adjustable, 2.5 Ohms	SAFETRAM	2 EA	
Resistor, Adjustable, 1.5 Ohms, H. O.	SAFETRAM	6 EA	
Lightning Arrestor, Clearview	SAFETRAM	34 EA	
Heavy Duty Equalizer	SAFETRAM	8 EA	
Fuse Block, Single	SAFETRAM	2 EA	
AC Line Surge Protector, Model SP-20A	SAFETRAM	2 EA	
#10 TC Blue Flex Wire	BURCO	900 FT	
#14 TC Blue Flex Wire	BURCO	700 FT	
#10/12 AMP Eyelets	SAFETRAM	150 EA	
#14/16 AMP Eyelets	SAFETRAM	100 EA	
Power Off Transformer, 120V/12V	Master Dist.	1 EA	
Fuses, 25A, NON-20	GRAINGER	2 EA	
Battery Charger, 40ETC-12V	RECO	1 EA	
Battery Charger, 20ETC-12V	RECO	1 EA	
Knife Switch Crossing Cut-Out Switch	Radio Shack	1 EA	
4 Post Terminal Block w/ Hardware	ERICO	34 EA	
Tags, Slip On	ACE	0.5 RM	
Stick-On Stencil	Cadillac Sign Co.	2 EA	
Bond Strand, Encof SBS6TUN8664	BURCO	200 FT	
Test Link, 1" Offset w/Gold Nuts	L&W	50 EA	
Gold Terminal Insulated Nut	L&W	50 EA	
Terminal Block, 2 x 6 w/flat nut only	L&W	8 EA	
Terminal Block, 2 post 2-3/8" w/flat nut only	L&W	8 EA	
#6 Non-insulated Terminal Eye 1/4 stud	L&W	36 EA	
#6 Non-insulated Terminal Eye 5/16 stud	L&W	30 EA	
Bloding (Barrel) Nuts	L&W	180 EA	
Maintainer Test Switch, 3 post test terminal	L&W	1 EA	
Strip, Solid, 1" Centers	L&W	30 EA	
Strip, Solid, 2-3/8" Centers	L&W	3 EA	
Buss Strap, 1" Centers 12 Hole	L&W	2 EA	
Circuit Plate Holder	Village Supplies	1 EA	
PVMS Misc. Package	Progress	1 Lot	
Gate/Flasher Material-Wapak Road (Material & Installation)			
ITEM DESCRIPTION	O.E.M.	QTY	U/M
Electronic Box, 5" MTG	WCH	2 EA	
12" Head w/24" Background & Hood (Painted AL)			
Terminal For LED Hook-up (For larger RDG & GE LED)	WCH	8 EA	
EVERRAY LED Flashing Light Unit (12" w/Sidelights)	RDG	10 EA	
Gate Barer, Two Way	QSI	2 EA	
Alum. Mast, 5' x 16" Base Hole 0 Degrees & Main Hole 90 Degrees right	Progress	2 EA	
JCT. Box Base, 5" W/2 NPT Cap	Progress	2 EA	
2-Way Cross Arm Assembly Less Heads (Gate Flasher)	Progress	2 EA	
5" Crossarm Assembly Mounting Kit	Progress	2 EA	
Railroad Crossing Sign, Ht	Progress	2 EA	
5" Mounting Kit for Railroad Crossing Signs w/Extension Bracket	Progress	2 EA	
Gate 3083-B Mechanism Assembly, including the 5" Mast Mounting Hardware, Heater, Flex			
Conduit, w/ Hangers, Long Arm Supports & Counterweight Kit for 18' - 24' Arms	WCH	2 EA	
#10/12 AMP Eyelets	Safetram	100 EA	
#10/12 AMP Wire	BURCO	280 FT	
Gate Arm Wind Bracket, 36"	NEO	2 EA	
Misc. Signal Material	Progress	1 EA	



April 5, 2013

Mr. J D Boles
RJ Corman
101 McKenna Way
Bardstown, KY 40004

Subject: Price Estimate For Proposed Railroad Signal
Project Located at Wapak Rd. (TR-91) near Lima, OH

Dear Mr. Boles:

With reference to the above subject and your recent request for a price, Midsouth Railroad Service is pleased to offer the following proposal:

WAPAK RD. (TR-91) NEAR LIMA, OH

Material and labor to furnish and install a grade crossing signal system consisting of a pre-wired control shelter and two 12" LED flashing light/gate assemblies. Train detection to be made with solid-state equipment using a GETS SCX AC/DC track circuitry. Signal activation will be controlled with mechanical vital relays. Please refer to the accompanying material list of items and quantities we propose to furnish and install at the stated price below:

Material and installation - \$ 137,000.00

FOB: Destination
Terms: Net 30 Days
Delivery: Typically 120-160 Days Upon Acceptance of Order (Weather Permitting)

The above price is firm for sixty (60) days and based on the following:

PO BOX 356 • FAIRBANKS, LA • 71240
PHONE: (318) 665-9344 FAX: (318) 665-9355

- (1) Price does not include cost incurred by railroad
- (2) Commercial AC power or meter service must be available within 75 ft. of proposed instrument shelter site.
- (3) Installation is based on no hindering obstacles, such as rock, water, or utilities that may interfere with the installation and operation of proposed material.
- (4) Price is based on furnishing material as indicated on the material list which accompanies this proposal.
- (5) Meter service included

We sincerely appreciate your consideration of Midsouth Railroad Service to meet your signal construction needs and please know that we are dedicated to your total satisfaction. If you have any questions please do not hesitate to call me at (318) 614-7281.

Sincerely,

A handwritten signature in dark ink, appearing to read "Mark Nelson". The signature is fluid and cursive, with the first name "Mark" and last name "Nelson" clearly distinguishable.

Mark Nelson
Vice President

Location/Description	QTY		GETSGS-PN
Wapak Rd			
Control Shelter			
HSE 6X6 AL S/L SKR101 L/EPD/KY	1	EA	028633-020
PROTECTOR SURGE TVSS TLE 120S	1	EA	010217-100
ASSY SCX-1 CONFIG A W/STD XING	1	EA	800-087051-007
ASSY BSA-4	1	EA	250597-000
ASSY XLC TOP LEVEL	2	EA	250991-000
ASSY PLUGBOARD XLC	2	EA	251071-100
CHARGER 20A 12V CRAGG 20ETC12V	1	EA	017061-201
CHARGER 40A 12V CRAGG 40ETC12V	1	EA	017061-203
HIGHWAY CROSSING MONITOR SYSTEM	1	EA	180394-MON
MONITOR LOW VOLT BATT 12V DBL	1	EA	017225-005
XFMR 115-230VPRI/16VCT 5A 80VA	1	EA	016206-105
RLY DPDT 12VDC 5A OCT	1	EA	007192-032
SCKT RLY 8-PIN OCT SCREW PNLMT	1	EA	132246-001
ASSEMBLY, 4 POST TERMINALBLOCK	36	EA	203032-000
ASSY AGA-1	40	EA	202216-001
ASSY AGE-1	5	EA	202217-000
RES VAR ADJ 4 OHM 1.94AMP	4	EA	002014-014
RLY ST 500 OHM NEUT 4FB-2F-1B	1	EA	007149-003
RLY ST 194 OHM 3 SEC SR 4FB	1	EA	007149-011
RLY ST PLBD W/O TERM	2	EA	007149-100
KIT RLY FL E-POST MOD W/S STUD	2	EA	005634-000
NUT INSULATED HARMON	28	EA	013986-000
TEST LINK W/PLT & INSUL	88	EA	032257-002
ASSY SINGLE ROW TERM 12 POST	1	EA	250084-212
WIRE 16AWG/19 EPR NYL BRD CASE	450	FT	012236-000
WIRE 10AWG/37 EPR NYL BRD CASE	650	FT	012236-004
WIRE 6AWG/19THHN BLK	240	FT	012253-000
WIRE 6AWG/19 THHN GRN	40	FT	012253-002
CABLE RAW 3/14AWG PWR 300V	10	FT	012690-010
CONN PLUG L6-15 250V 15A 2P3W	2	EA	132286-001
ASSY 2WAY TERM BLK W/AAR HARD	5	EA	202810-000
ASSY TERM STRIP DBL POST 12	6	EA	250094-300
GROUND POST P5-162	3	EA	113047-000
ASSY LIGHT PO EXT-GEMS	1	EA	201744-001
WRENCH AAR TERMINAL	1	EA	095905-000
WRENCH RLY TST E-POST	1	EA	095605-000
LABEL RK PNL-LAMP LIGHTING RES	1	EA	125371-000
LABEL, DANGER 240 V, 1.75 X 2.	1	EA	SQS109
THERMOSTAT SPDT REMOTE BULB 8A	1	EA	009186-004
KIT SM PRTS GENERIC	1	EA	180394-XXX
KNIFE SWITCH	1	EA	009291-10X
Field Material			
FND SIGNAL 32 X 32 X 60	2	EA	17190-4
GATE ASSY 3593B CTWT 16-32'	2	EA	076037-018
HEATER FOR GATE MECH 110V **	2	EA	4137-01

MAST AL 5" X 14' M90R X-NONE	2	EA	51105-01
BASE 5" JCT BOX 32 TERM	2	EA	022603-011
KIT FOUNDATION LEVEL BOLT	8	EA	180554-000
LENS LED FLASHING 12" RED	8	EA	180572-006
GATE KEEPER SK1000-2W DUAL DIR	2	EA	076007-005
GATE ARM 19-24' AG HI GSI	2	EA	076045-021
LIGHT KIT GATEARM 3 4" W/WIRES	2	SE	076084-000
WRENCH TORQUE WCH 3590-K-9	1	EA	095936-001
SIGN XING S-F HI 5"MTG SIG/GAT	2	EA	60007-05
BELL LOUD 5" OR 4" MAST MTG	2	EA	1450-01
CABLE UG 3 COND #4 AWG	75	FT	5192-02
CABLE UG 5 COND #6 AWG SOLID	325	FT	1076-02
CABLE UG 7 COND #14 AWG SOLID	325	FT	1023-02
CABLE UG 3 COND #9 AWG SOLID	325	FT	1078-02
WIRE UG TRK #6 AWG DUPLEX	350	FT	1094-02
BATT GNB 50A11 1 CELL	7	EA	017134-104
BATT GNB 50A13 1 CELL 320AH	6	EA	017134-105
ASSY RING-10	3	EA	800-004080-000
WIRE #6 SOFT BARE COPPER	40	FT	1436-01
ROD 5/8 X 8 NS GRD ***	4	EA	1357-01
CLAMP GROUND FOR 5/8 ROD	4	EA	1359-01
BOND JOINT 3/16" X 6-1/2" XS	135	EA	1072-01
BOND JOINT 3/16"X48"XS SBXS	135	EA	005712-010
BOND STRAND 8-STR 3/16" TINNED	75	FT	4133-01
BOOTLEG BOND W/COUPLER KIT	12	EA	3522-01
TAPE ELECTRICAL 3M #33+ 3/4"	4	RL	1190-01
TAPE ELECTRICAL 3M #130-C	4	RL	1321-01
COMPOUND INSULATING ELECTRICAL	1	EA	4123-01
HOSE RUBBER 3/4"	60	EA	005360-015
STAPLE GROUND WIRE 1-1/16"X3"	18	EA	113005-000
TIE CABLE .184 X 7.31" HIG TEM	40	EA	4125-01
LUG RNG 1/4" 12-10AWG INS BLK	40	EA	032114-008
WIRE DIESEL 10AWG 2000 VOLTS	400	FT	2125-01
STAPLE COPPERWELD 3/8 X 1-3/4	60	EA	1148-01
GREASE RUST PREVENTIVE NO OXID	1	EA	1906-01
SLEEVE NICO 3/16"-#6 AWG REDUC	6	EA	1145-01
CLIP TRACK WIRE RETAINER	12	EA	1118-01
INSULATED RAIL JOINT	8	EA	N/A CUST
COMPOUND DUCT SEAL 5 LB PLUG	3	PK	1179-01
LOCK BRONZE HEX SAFETRAN	5	EA	005778-005
TRAY BATT 12X24 POLYETHYLENE	4	EA	040231-000
Field Cable Tag Kit	1	EA	180394-FTG

From: Lowe, Ryan
To: Damron, Don
Cc: Stout, Catherine
Subject: RE: Site plan for TR91, Wapak Road
Date: Thursday, July 11, 2013 12:20:00 PM

Don & Cathy,

Only comment-- if RR Right of Way (and other site constraints) allow, I would like to see the bungalow in the SW quadrant moved to 25' from center of rail.

Go ahead and authorize if you wish with this comment, I will sign and seal when I'm next down.

Thanks,

Ryan Lowe, P.E.
Ohio Department of Transportation
Office of Traffic Engineering - ITS and Signals Section
1980 West Broad Street
Columbus, OH 43223
Mail Stop: 5160
Phone: (614) 387-3174

From: Damron, Don
Sent: Thursday, July 11, 2013 11:33 AM
To: Lowe, Ryan
Subject: FW: Site plan for TR91, Wapak Road

Ryan,

Here are the plans for Wapak Road for your review. Thanks.

Don

Donald J. Damron AICP
Grade Crossing Specialist, Project Manager
Ohio Rail Development Commission
Mail Stop #3140
1980 W Broad St.
Columbus, OH 43223
Office: 614-466-2509
Cell: 614-917-8466
don.damron@dot.state.oh.us

From: Hammond, Janet S. [mailto:Janet.Hammond@RJCorman.com]
Sent: Tuesday, June 25, 2013 3:00 PM