Public Utilities Commission of Ohio

Memo

To: Docketing Division

From: Jill Henry, Rail Specialist, Rail Division

Cc: PUCO Legal Department

Date: 3/8/17

Re: PUCO Case No. 17-682-RR-FED- In the Matter of a Request for the Installation of Active Warning Devices at the RJ Corman Railroad Crossing, S. Copus Road/TR 146 DOT#261-647S in Allen County, Ohio.

On September 14, 2016, the Ohio Rail Development Commission (ORDC) authorized funding for RJ Corman Railroad to install lights and gates and a new crossing surface at S. Copus Road/TR 146 DOT#261-647S in Allen County, Ohio. The crossing was surveyed on April 4, 2016 and found to warrant the upgrades. The electric utility provider for this crossings is American Electric Power-Ohio Power.

The project will be paid for with federal funds and is actual cost. The plans and estimates for the project in the amounts of \$178,281.55 for the installation of lights and gates and \$37,163.20 for reconstruction of the roadway surface (total project cost of \$215,444.75) have been approved. Construction may commence at once. **Staff requests a Finding & Order with completion of the project in nine months.** Staff requests that the following language be incorporated in the Finding & Order:

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

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

Please serve the following parties of record:

RJ Corman Railroad James Kelley Funded Projects Coordinator P.O. Box 788 101 RJ Corman Drive Nicholasville, KY 40356

RJ Corman Railroad Deborah Hawley Funded Projects Coordinator P.O. Box 788 101 RJ Corman Drive Nicholasville, KY 40356

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

Shawnee Township, Allen County David Belton Trustee 2530 Ft. Amanda Road Lima, Ohio 45804

American Electric Power- Ohio Power

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 146, S. Copus Rd. / RJC

DOT# 261647S PID# 103521

DATE: February 9, 2017

The Ohio Rail Development Commission (ORDC) established a Diagnostic Review Team Survey at the subject highway/railroad crossing location on 4/4/2016. The Public Utilities Commission of Ohio (PUCO) attended the Diagnostic Survey.

The Diagnostic Review Team recommended the installation of new active warning devices, flashing lights and gates and the replacement of the roadway surface. A copy of the Diagnostic Review Team Survey form is attached.

The engineering plans and cost estimate have been provided by the railroad and ORDC has approved the site plan and estimate as provided. Please issue a construction-only order for the project outlined above. This authorization is made with the stipulation and understanding that an approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit.

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

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

Thank you for your assistance with these matters.

Attachments:

Diagnostic Review Team Survey dated 4/4/2016 RJ Corman Railroad Company / Western Ohio Lines Cost Estimate Proposed Crossing Layout – PE Approved Signal Display Layout

cc: Jill Henry, PUCO ORDC Project Manager (file)





Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223 John R. Kasich, Governor • James G. Bradley, Chairman

February 9, 2017

Ms. Deborah J. Hawley Real Estate & Funded Projects Manager R. J. Corman Railroad Group PO Box 788 Nicholasville, KY 40340

RE: Construction Authorization for Grade Crossing Warning Devices Improvement Allen County, TR 146, S. Copus Rd. DOT# 261 647S
PID# 103521

Dear Ms. Hawley:

The cost estimate and the engineering plans for the referenced project have been reviewed and are acceptable. The R. J. Corman Railroad Group may proceed with the construction of the proposed grade crossing warning device improvement 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 \$215,444.75 and is broken down as follows: \$178,281.55 for the installation of the active warning devices, and \$37,163.20 for the reconstruction of the roadway surface. Additional costs related to the asphalt paving of the roadway surface 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 Group accepting the following instructions:

- 1. RJ Corman Railroad'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.ohio.gov, and to the Public Utilities Commission of Ohio at Jill_Henry@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 will coordinate with Shawnee Township and/or the Allen County Engineers office to finalize the construction schedule and coordinate the arrangements necessary to close TR 146, Copus Rd, 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 Group 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 Group.
- 4. RJ Corman Railroad Group'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.
- 5. The installation of the new warning device system will include any ancillary work needed to make the warning devices function as designed and to satisfy MUTCD requirements.
- 6. RJ Corman Railroad Group will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed ODOT Purchase Order to reference when billing.
- 7. RJ Corman Railroad Group 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,

Donald J. Damron Project Manager

C: Randall Schumacher, Supervisor, Rail Division, PUCO Jill Henry, Rail Specialist, PUCO ORDC (file) **RJ Corman Railroad Company / Western Ohio Lines**

County: Allen

Location: S. Copus Road (TR 146)

DOT#: 261647S MP: SP 56.3

Estimate for Grade Crossing Surface and Signal Warning System

Crossing Surface

Material	Quantity	Unit	Description		it Price		tension
	42	TF	4' Concrete Crossing Module (Tub Type)	\$	360.00	\$	15,120.00
	120	Ft	115 RE New Rail (60 Ft Pieces)	\$	30.00	\$	3,600.00
	100	Tons	Stone	\$	28.00	\$	2,800.00
	3	Keg	Spikes (50#)	\$ \$	45.00	\$	135.00
	26	Each	Ties (7x9 Grade 5)	\$	75.00	\$	1,950.00
	104	Each	Anchors (115 RE)	\$	2.30	\$	239.20
	52	Each	Plates	\$	17.00	\$	884.00
	4	Each	Field Welds (115 RE)	\$	140.00	\$	560.00
	1	Keg	Track Bolts w/ Washers (50/keg)	\$	175.00	\$	175.00
	50	Tons	Asphalt Paving	\$	200.00	\$	10,000.00
	1	LS	Traffic Control and Sign Upgrade	\$	200.00	\$	200.00
	1	LS	Asphalt/Tie Disposal		1,500.00	\$	1,500.00
Material Sub-to	otal		·		,	\$	37,163.20
Labor	Hours					-	,
	25	1	Supervisor	\$	55.00	\$	1,375.00
	25	4	Laborers	\$	35.00	\$	3,500.00
	25	2	Operator	\$ \$	40.00	\$	2,000.00
	25	1	Welder	\$	45.00	\$	1,125.00
	3	1	Inspector	\$	55.00	\$	165.00
Labor Sub-tota	al					\$	8,165.00
Equipment	Hours						
	25	1	Backhoe	\$	42.00	\$	1,050.00
	25	1	Prentice Truck	\$	70.00	\$	1,750.00
	25	1	P/U Truck (F-250)	\$	22.00	\$	550.00
	25	1	Dump Truck	\$ \$ \$	83.00	\$	2,075.00
	25	1	Work Truck (F-550)	\$	35.00	\$	875.00
	25	1	Backhoe Trailer	\$	8.00	\$	200.00
	25	1	Trackhoe	\$	90.00	\$	2,250.00
	5	1	Tamper	\$	300.00	\$	1,500.00
	5	1	Ballast Regulator	\$ \$	120.00	\$	600.00
	3	1	Inspector Truck	\$	24.00	\$	72.00
Equipment Sul	b-total		·			\$	10,922.00
Crossing Surfa	ace Total					\$	56,250.20
Signal						-	-
Oigilai			Complete Signal Warning System			\$	157,764.55
	16	1	Signal Superintendent/Inspector Labor	\$	60.00	\$	960.00
	1	2	Lodging and Per Diem	\$	230.00	\$	230.00
	16	1	Work Truck	\$	15.00	\$	240.00
Signal Warning			WOIN HUON	Ψ	13.00		159,194.55
Project Total:			Crossing Surface and Signal Warning Sy	/stem		\$:	215,444.75

^{*}Labor rates include hotel and per diem

SH.	CONTENTS		REVISION NO.					
NO.	CONTENTS	1	2	3	4	5		
NX1	INDEX SHEET							
1	TRACK PLAN							
2	PROFILE							
3	TRACK LAYOUT							
4	LOAD CENTER WIRING							
5	DC POWER							
6	SCX-1 CONNECTIONS							
7	CROSSING CONTROLLER HOOK-UP							
8	LIGHTING/SURGE PANEL HOOK-UP							
9	GATE & FLASHER CIRCUITS SIGNAL "A"							
10	GATE & FLASHER CIRCUITS SIGNAL "B"							
11	TERMINAL BOARD							
12	HOUSE SIDE A LAYOUT							
13	HOUSE SIDE B LAYOUT							
14	HOUSE SIDE C LAYOUT							
15	HOUSE SIDE D LAYOUT AND TOP VIEW							

REVISIONS 08-31-16 DEW RJC XXX

NEW PLAN DRAWN ACCOUNT NEW HOUSE INSTALL

FILE: R-XXXX IN SERVICE: XX-XX-XX

PER: XXX

xxx xxx

INDEX SHEET

CORMAN RAILROAD



= SHEETS AFFECTED



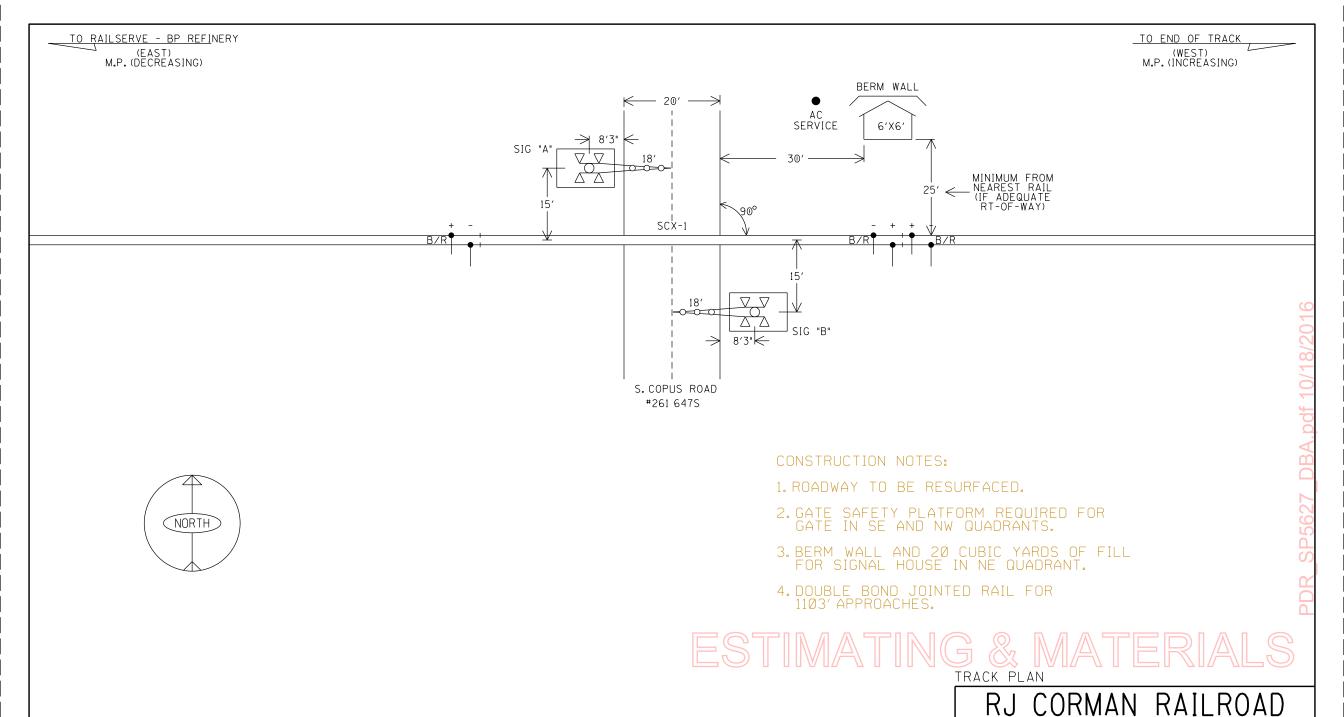
= AIS COMPLETE



DESIGNED BY: DEW DIGITIZED BY:RJC CHECKED BY: DBA

S. COPUS ROAD LIMA, OH SPEG SUBDIVISION

DATE: 08/31/16 FILE: SP5627.NXI SHEET NX1

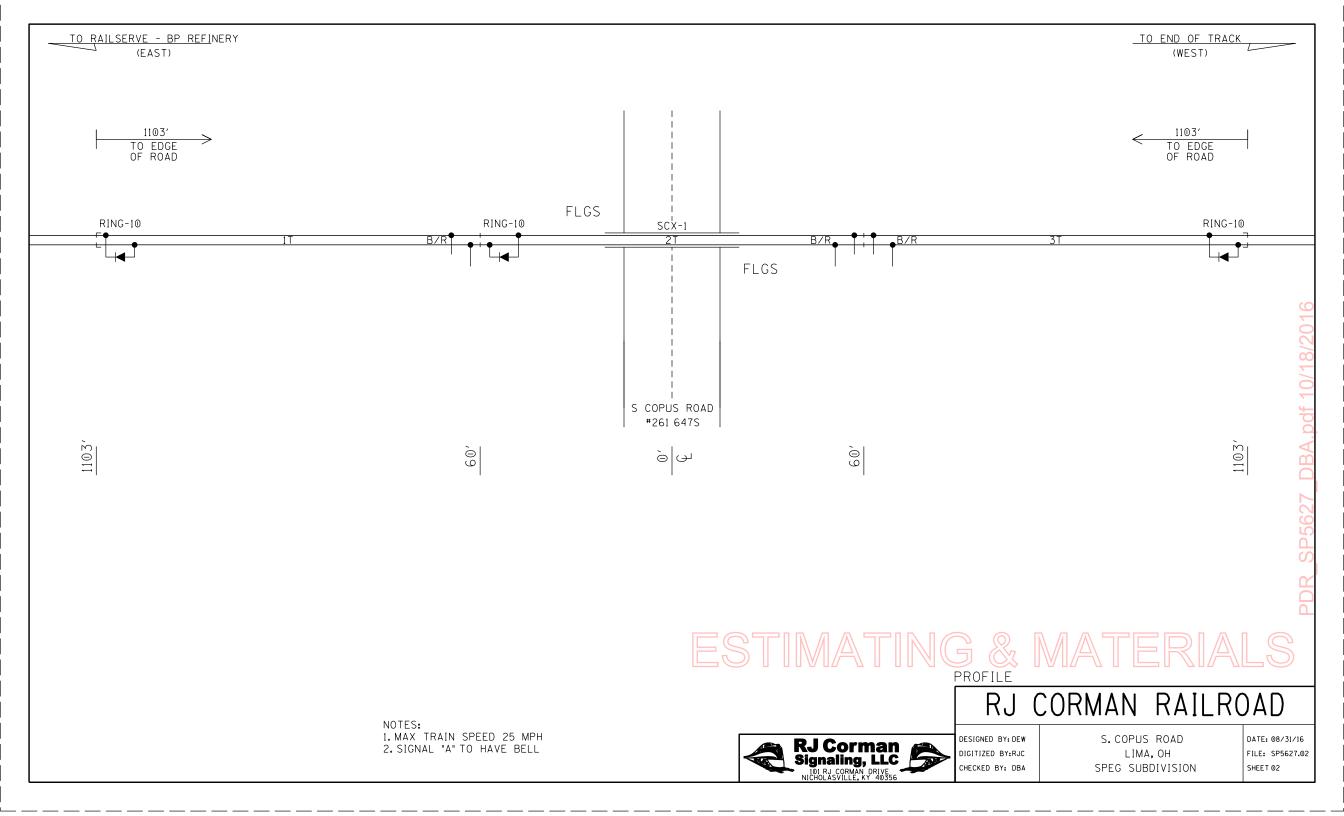


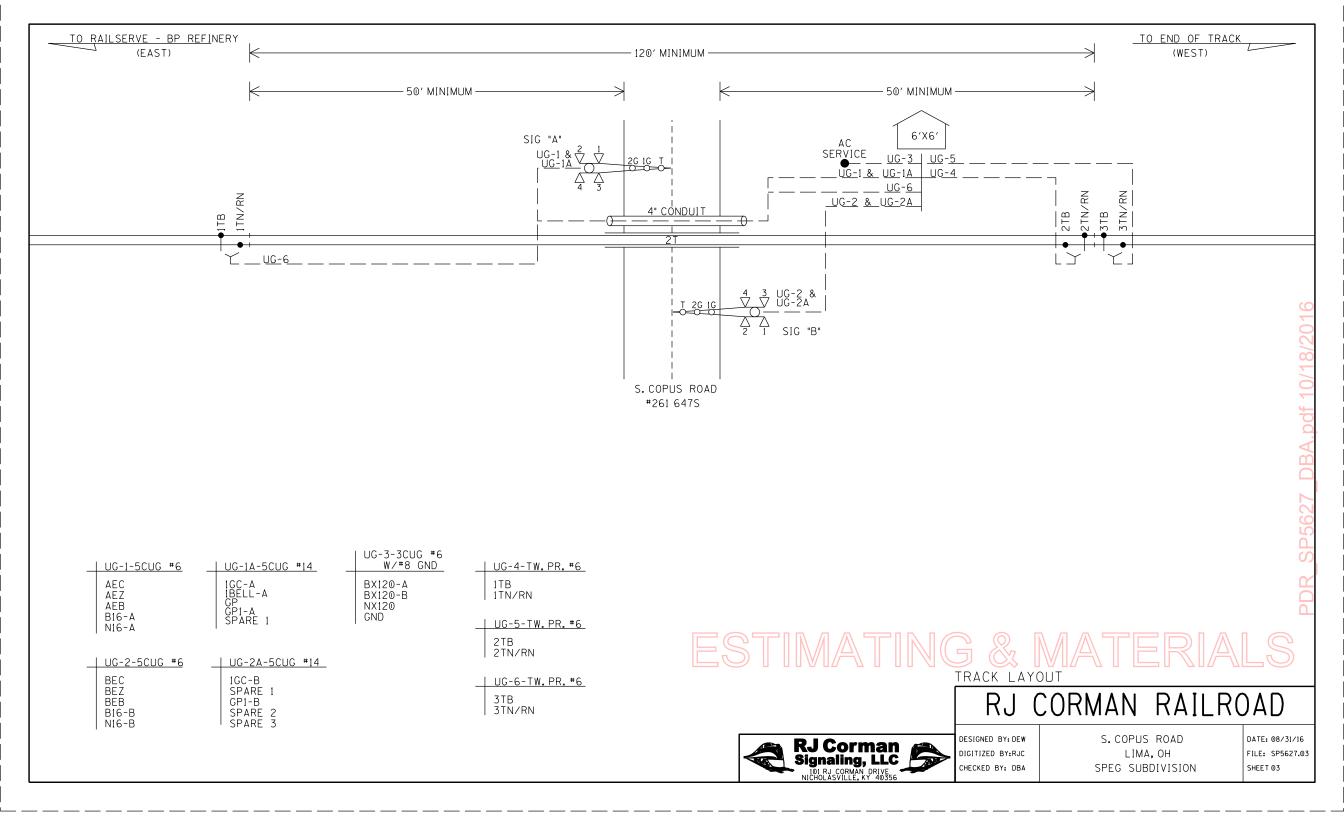
NOTES: 1. MAX TRAIN SPEED 25 MPH 2. SIGNAL "A" TO HAVE BELL



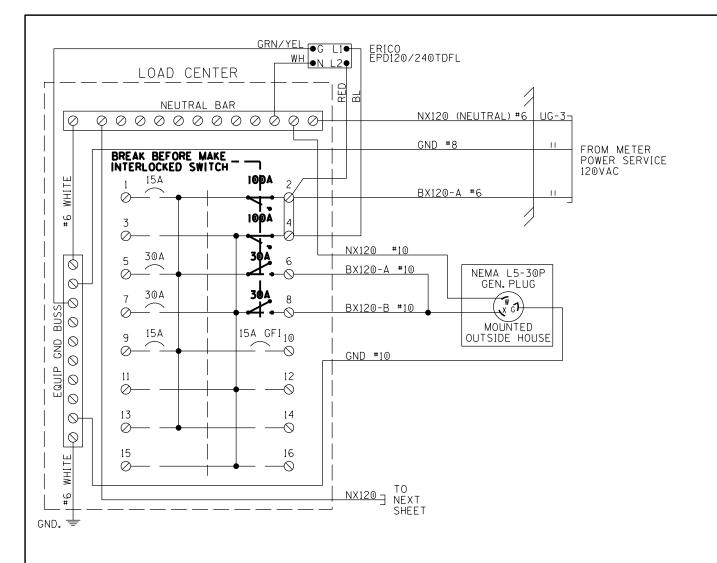
DIGITIZED BY:RJC CHECKED BY: DBA

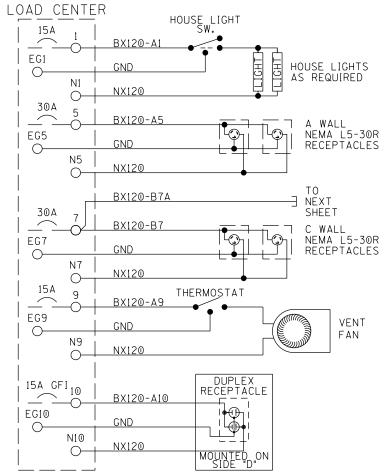
S. COPUS ROAD LIMA, OH SPEG SUBDIVISION DATE: 08/31/16 FILE: SP5627.01 SHEET 01











SQUARE "D" PART NUMBERS: LOAD CENTER — Q0116L125G 10A 1P CIR BKR ——— Q0110 10A 2P CIR BKR — Q0210 15A 1P GFI CIR BKR - Q0115GFI 15A 1P CIR BKR ——— Q0115 20A 1P CIR BKR — Q0120 30A 1P CIR BKR — Q0130 30A 2P CIR BKR — Q0230 60A 2P CIR BKR — Q0260

100A 2P CIR BKR --- Q02100

MECH INTERLOCK —— PK4DTIM4LA

NOTE: ALL AC WIRING IS TO BE IN METALLIC CONDUIT WITH NO EXPOSED TERMINALS. ALL AC 120V AND 240V EQUIPMENT IS TO BE PROPERLY GROUNDED.

ALL WIRING TO BE #16AWG UNLESS NOTED OTHERWISE.

CONSTRUCTION NOTE:
FIELD TO VERIFY IF 120VAC OR 240VAC USED AND MARK THE SHEETS APPROPRIATELY. DO NOT USE OR INSTALL 240VAC EQUIPMENT IN THIS HOUSE.

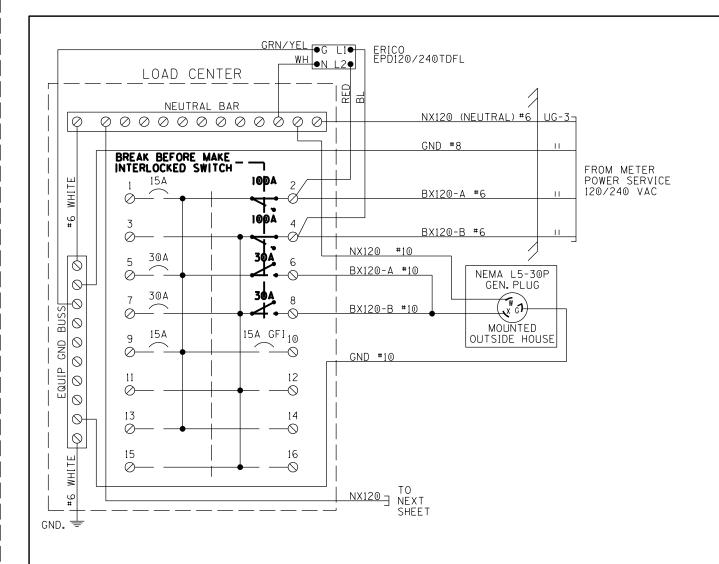
LOAD CENTER WIRING (120V)

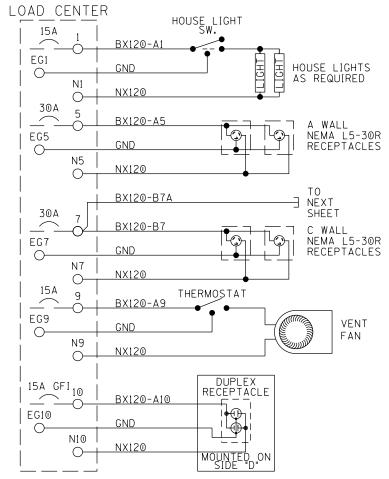
CORMAN RAILROAD



S. COPUS ROAD LIMA, OH SPEG SUBDIVISION DATE: 08/31/16 FILE: SP5627.04 SHEET 04







SQUARE "D" PART NUMBERS:

LOAD CENTER — Q0116L125G

10A 1P CIR BKR — Q0110

10A 2P CIR BKR — Q0210

15A 1P GFI CIR BKR — Q0115GFI

15A 1P CIR BKR — Q0120

30A 1P CIR BKR — Q0130

30A 2P CIR BKR — Q0230

60A 2P CIR BKR — Q0260

100A 2P CIR BKR --- Q02100

MECH INTERLOCK —— PK4DTIM4LA

NOTE: ALL AC WIRING IS TO BE IN METALLIC CONDUIT WITH NO EXPOSED TERMINALS. ALL AC 120V AND 240V EQUIPMENT IS TO BE PROPERLY GROUNDED.

ALL WIRING TO BE #16AWG

UNLESS NOTED OTHERWISE.

DO NOT USE OR INSTALL 240VAC AND WARK THE SHEETS APPROPRIATELY.

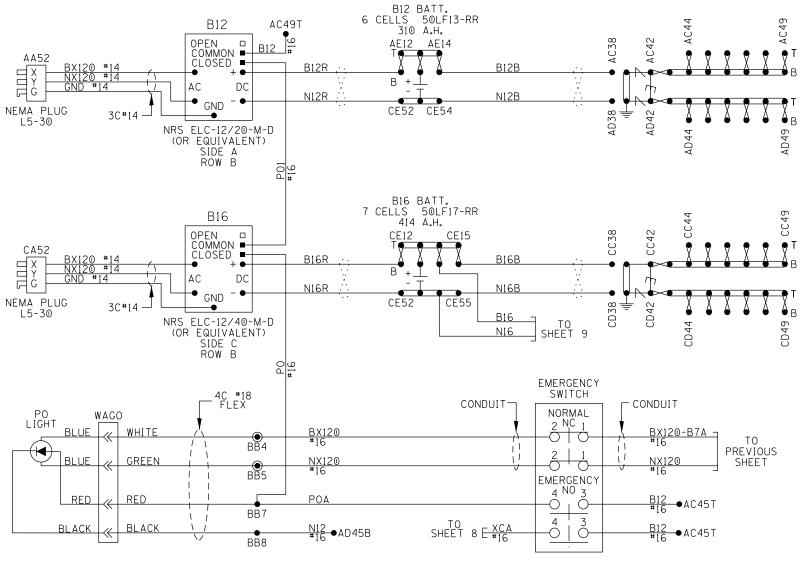
LOAD CENTER WIRING (240V)

RJ CORMAN RAILROAD

DESIGNED BY: DEW
DIGITIZED BY:RJC
CHECKED BY: DBA

S. COPUS ROAD LIMA, OH SPEG SUBDIVISION DATE: 08/31/16 FILE: SP5627.04A SHEET 04A

RJ Corman Signaling, LLC



NOTES:

- 1. ALL WIRING TO BE #6AWG UNLESS NOTED OTHERWISE.
- 2. DO NOT INSTALL 240VAC CHARGERS.





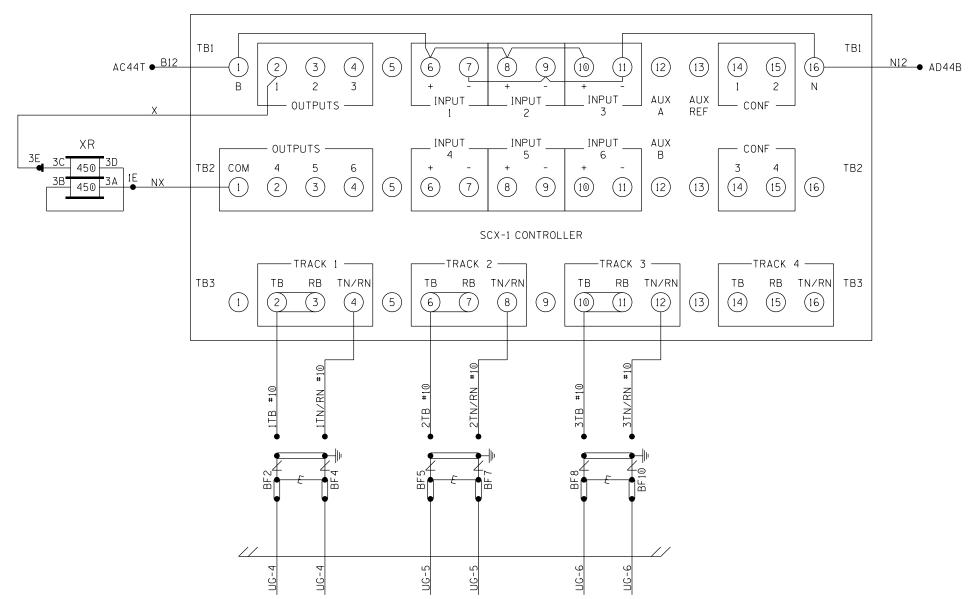
ESTIMATING & MATERIALS

DC POWER

RJ CORMAN RAILROAD



DESIGNED BY: DEW DIGITIZED BY:RJC CHECKED BY: DBA S. COPUS ROAD LIMA, OH SPEG SUBDIVISION DATE: 08/31/16 FILE: SP5627.05 SHEET 05



ESTIMATING & MATERIALS

SCX-1 CONNECTIONS

NOTES:

ALL WIRING TO BE #16AWG UNLESS NOTED OTHERWISE.

RJ CORMAN RAILROAD



DESIGNED BY: DEW
DIGITIZED BY: RJC
CHECKED BY: DBA

S. COPUS ROAD LIMA, OH SPEG SUBDIVISION DATE: 08/31/16 FILE: SP5627.06 SHEET 06

PROGRAM	
FLASHER RATE	50
1 GC DELAY	4 SEC.
2 GC DELAY	SEC.
BELL-ON GATE RISING	NO
ENABLE INPUTS	1 THRU 1
ENABLE OUTPUTS	A AND B
LOW BATT	DISABLED
SET TO DEFAULT	SKIP
TIME	
DATE	
DAYLIGHT SAVINGS	ON
PASSWORD	DISABLED

SETUP LAMP VOLTAGE #

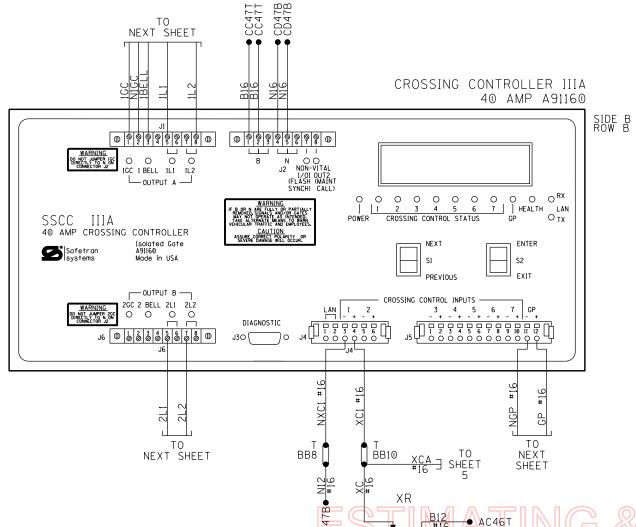
SETUP OUTPUT 1L1 XX.X VOLTS

SETUP OUTPUT 1L2 XX.X VOLTS

SETUP OUTPUT 2L1 XX.X VOLTS

SETUP OUTPUT 2L2 XX.X VOLTS

CONSTRUCTION TO MARK VOLTAGE SETTINGS FOR AS BUILT REVISION.



NOTES:

ALL WIRING TO BE #10AWG UNLESS NOTED OTHERWISE.

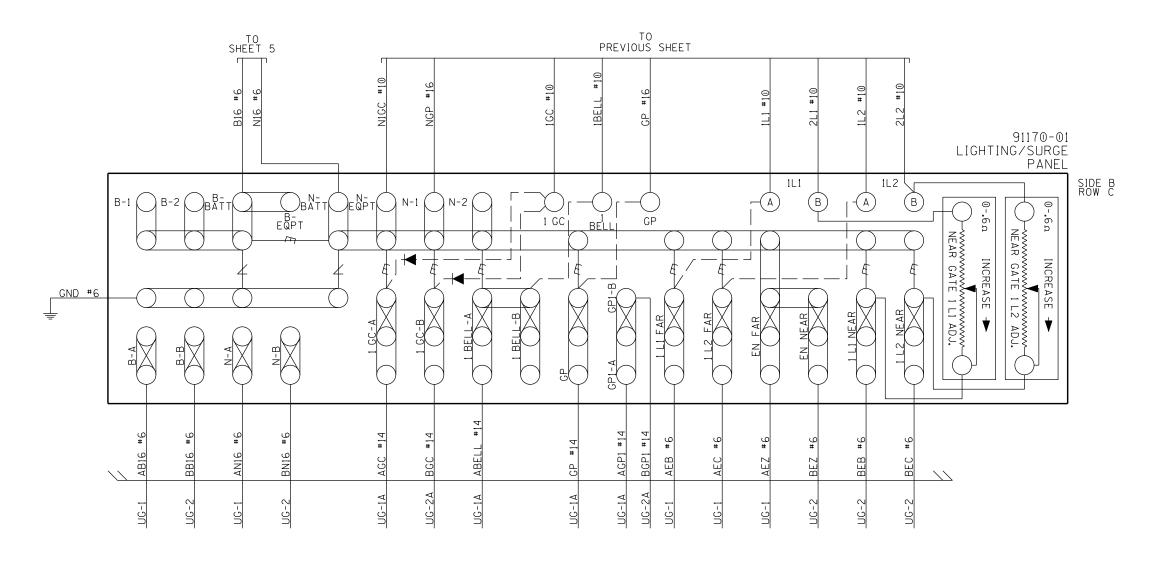
G & MAIERIALS

CROSSING CONTROLLER HOOK-UP

RJ CORMAN RAILROAD



DESIGNED BY: DEW DIGITIZED BY:RJC CHECKED BY: DBA S. COPUS ROAD LIMA, OH SPEG SUBDIVISION DATE: 08/31/16 FILE: SP5627.07 SHEET 07



ESTIMATING & MATERIALS

_IGHTING/SURGE PANEL HOOK-UP

NOTE:

= HEAVY DUTY EQUALIZER 022700-1X

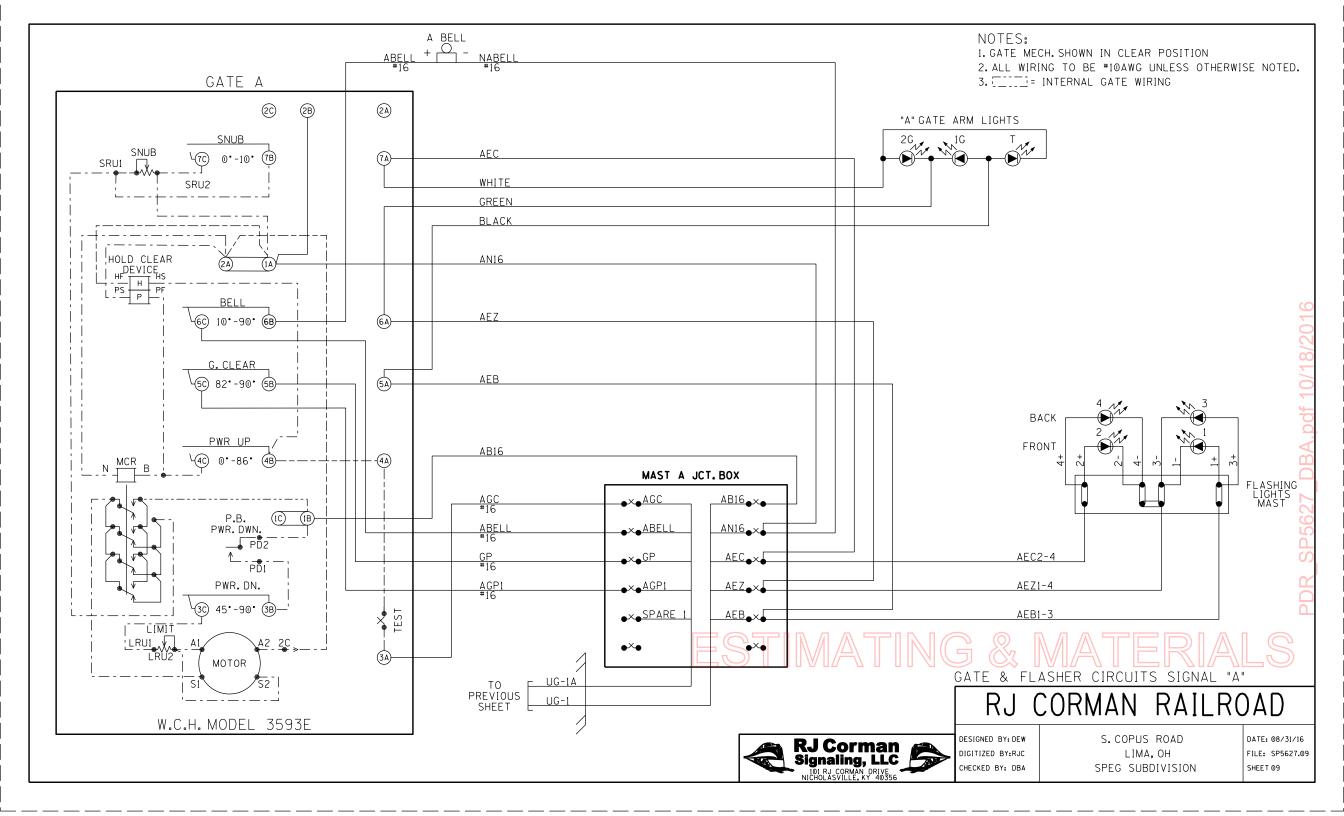
∠ = HEAVY DUTY CLEARVIEW ARRESTER 022585-1X

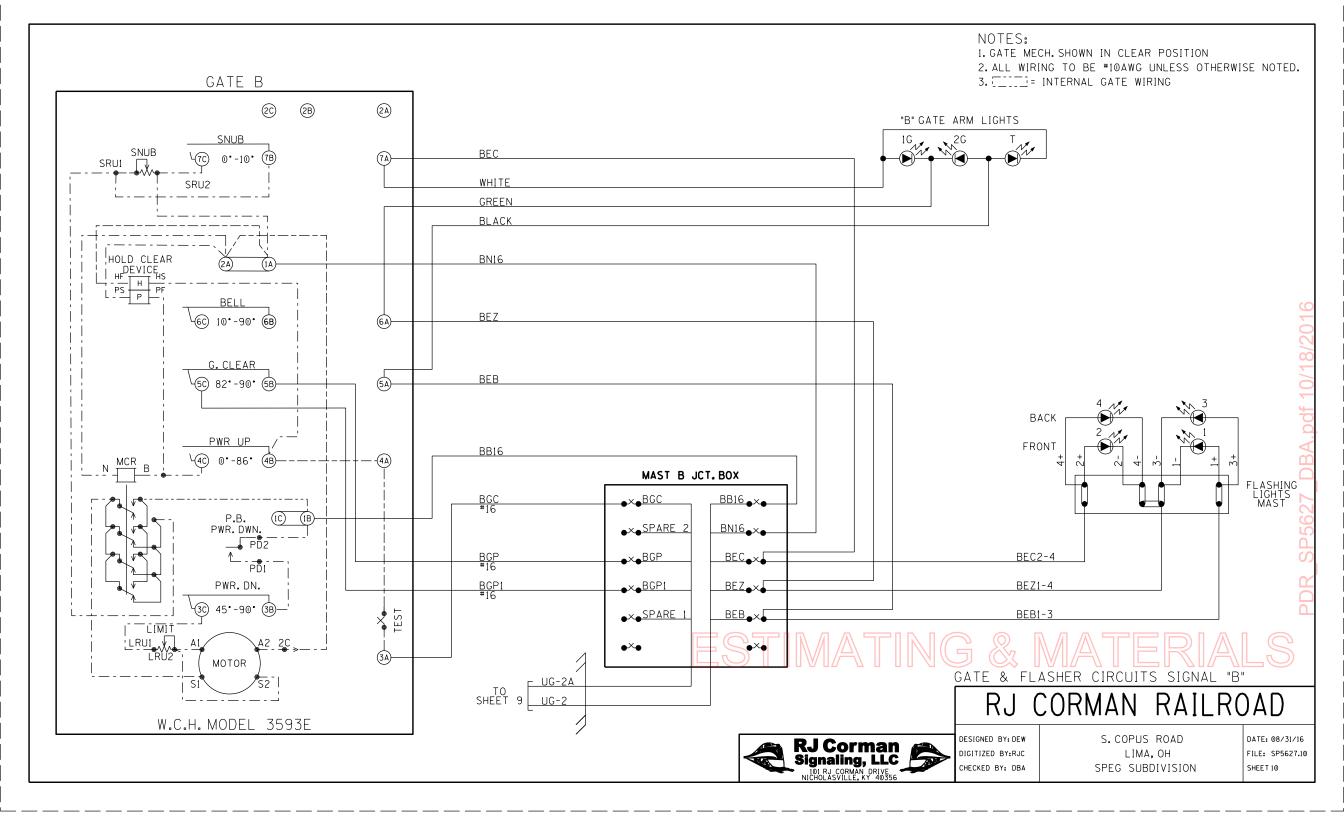


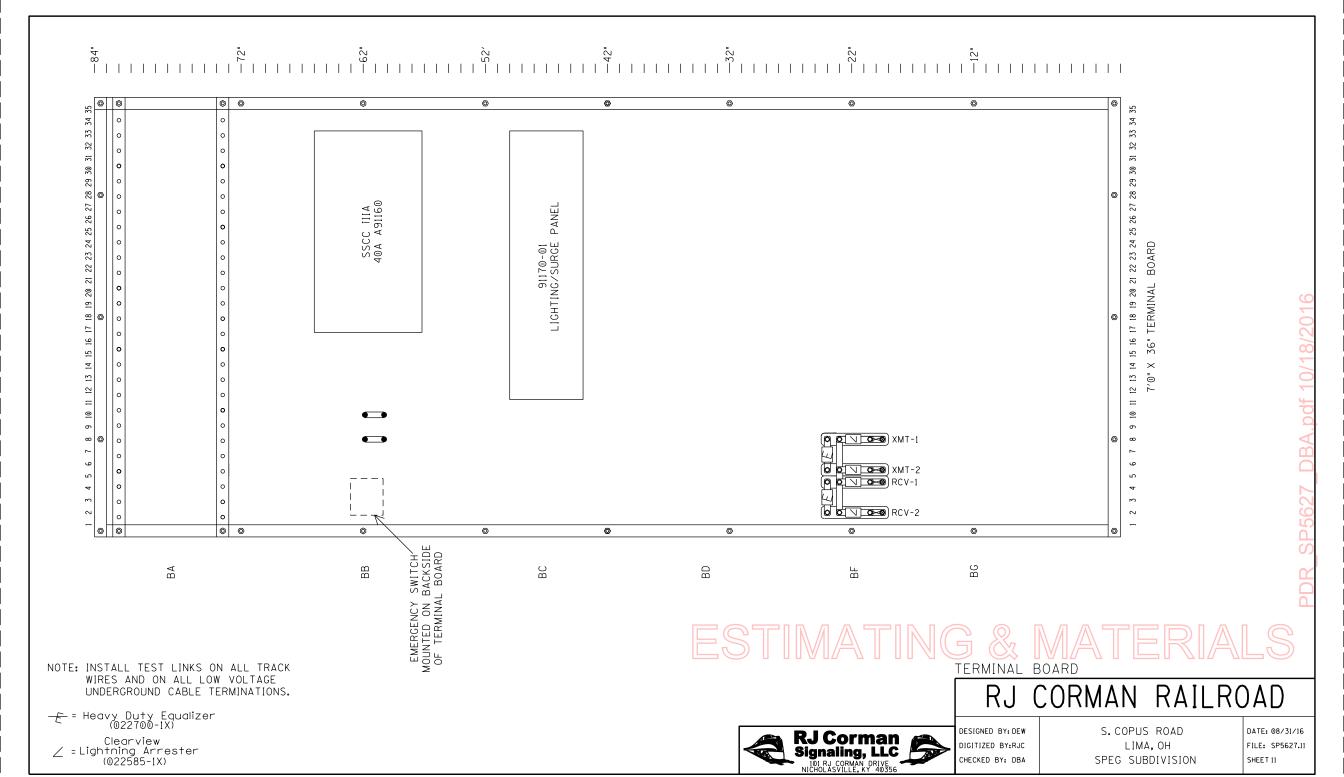
RJ CORMAN RAILROAD

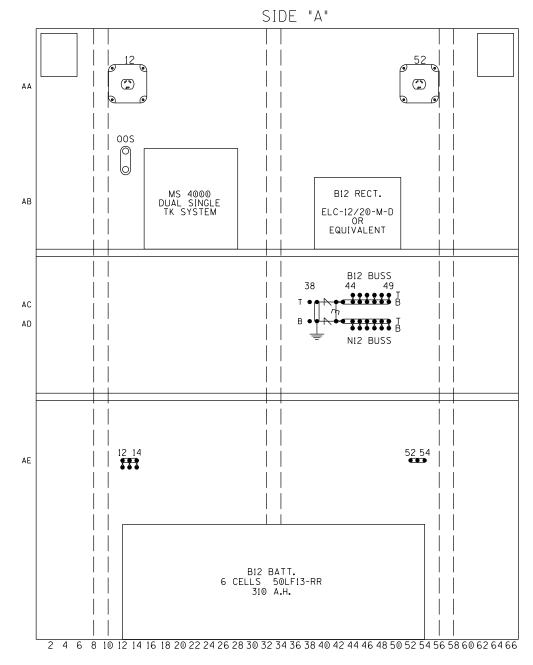
DESIGNED BY: DEW
DIGITIZED BY:RJC
CHECKED BY: DBA

S. COPUS ROAD LIMA, OH SPEG SUBDIVISION DATE: 08/31/16 FILE: SP5627.08 SHEET 08









6' X 6' HOUSE - SIDE "A"

CORMAN RAILROAD

DESIGNED BY: DEW DIGITIZED BY:RJC CHECKED BY: DBA

S. COPUS ROAD LIMA, OH SPEG SUBDIVISION

DATE: 08/31/16 FILE: SP5627.12 SHEET 12

NOTE: NEMA RECEPTACLES ARE L5-30.





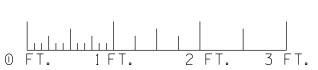
ESTIMATING & MATERIALS

6' X 6' HOUSE - SIDE "C"

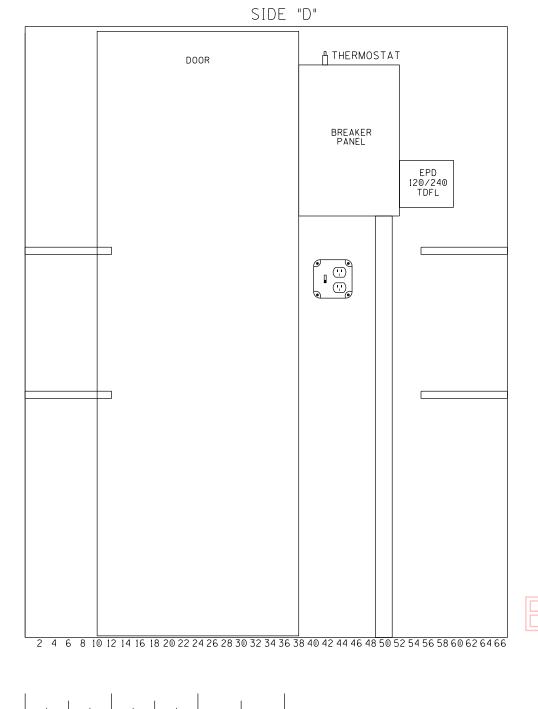
RJ CORMAN RAILROAD

DESIGNED BY: DEW DIGITIZED BY:RJC CHECKED BY: DBA S. COPUS ROAD LIMA, OH SPEG SUBDIVISION DATE: 08/31/16 FILE: SP5627.14 SHEET 14

NOTE: NEMA RECEPTACLES ARE L5-30.





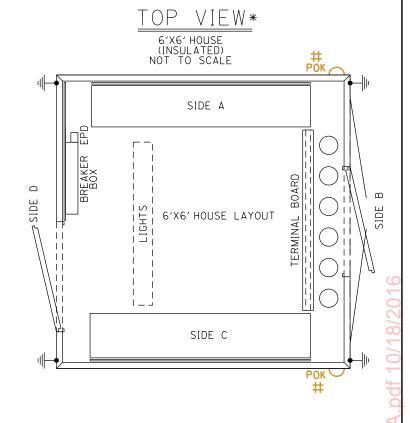


0 FT.

1 FT.

2 FT.

3 FT.



= FIELD TO DETERMINE PLACEMENT OF POKALICHT MOT NEEDED. RIALS

6' X 6' HOUSE - SIDE "D" & TOP VIEW

RJ CORMAN RAILROAD



DESIGNED BY: DEW
DIGITIZED BY:RJC
CHECKED BY: DBA

S. COPUS ROAD LIMA, OH SPEG SUBDIVISION DATE: 08/31/16 FILE: SP5627.15 SHEET 15



DHIO RAIL DEVELOPMENT COMMISSION Mail Stop #3140, 1980 West Broad Street, Columbus OH 43223

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

September 14, 2016

Ms. Deborah J. Hawley Real Estate & funded Projects Manager R.J. Corman Railroad Company, LLC PO Box 788 Nicholasville, KY 40340

RE: Grade Crossing Warning Device Improvement, Authorization to Proceed with Engineering Design Allen County, TR 146, S. Copus Rd. DOT #261647S, PID 103521, RJC

Dear Ms. Hawley:

A diagnostic review was held at the above grade crossing on 4/4/2016. The crossing has been recommended for the installation of lights and gates.

RJ Corman is authorized to proceed with the engineering design, site plans and cost estimates for this safety project. This authorization is made with the stipulation and understanding that any field work needs prior approval before work begins. This authorization is made with the stipulation and understanding that an approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit.

The ORDC is not requesting that the PUCO issue an Order at this time. When the ORDC receives the Engineering Design and Site Layout Plan it will be evaluated and a construction-only Order will be requested from PUCO. Please submit the Engineering Design to ORDC within 90 days of receipt of this letter.

The diagnostic review form is attached. Please note any recommendations (page 5), if any, made by the team with regard to requirements for this crossing. This project will include the installation of a new roadway surface. Any other minor roadway or sidewalk work necessary for MUTCD compliance should be incorporated into the Site Layout Plan and such costs will flow through the railroad reimbursement process

The ORDC Project Manager for this project is Don Damron. If you have any questions, I can be reached at 614-466-2509 (office), or 614-917-8466 (cell), or don.damron@dot.state.oh.us.

Sincerely.

Donald J. Damron Project Manager

Copy: Randall Schumacher, Supervisor, Rail Division, Transportation Department, PUCO

Jill Henry, Grade Crossing Specialist, PUCO

ORDC (file)

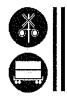
Attachments: Diagnostic Review Team Survey dated 4/4/2016

ORDC Letter Agreement dated 8/5//2016

State of Ohio Purchase Order



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



OHIO RAIL DEVELOPMENT COMMISSION

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

August 5, 2016

Deborah J. Hawley Real Estate & Funded Projects Manager R.J. Corman Railroad Group P.O. Box 788 Nicholasville, KY 40340

Re:

Grade Crossing Warning Device Improvements

Allen County, TR 146/S. Copus Road, DOT # 261647S, PID # 103521

Dear Ms. Hawley:

A diagnostic review was conducted at the subject grade crossing on 4/4/2016. As a result of the review, the crossing will receive flashing lights and roadway gates plus surface reconstruction.

This project shall be completed in compliance with Agreements No. 004-A, dated May 21, 1991 and No. 6962 dated April 23, 1992, entered into by the State of Ohio and R.J. Corman Railroad Group (RJC) and incorporated as if fully rewritten herein. This construction shall also meet the general terms and conditions under the Moving Ahead for Progress in the 21st Century Act (MAP-21) and subsequent amendments and the State of Ohio's Federally Funded Warning Device Program.

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

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

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

IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY



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

Sincerely

Matthew R. Dietrich **Executive Director**

R.J Corman Railroad Group:

Title: Presiden

ALL TR 146 S. Copus Rd RJC PID 103521

OHIO RAIL DEVELOPMENT COMMISSION

Diagnostic Review Team Survey

Reason for Survey: (e.g. formula, accident, constituent, etc.)	ent - AOT	Date: 4/4/2016					
Location Data							
Street or Road Name: S. Copus Rd							
Route/Road Number (i.e. Twp., Co., SR or US) TR 146		US DOT No.: 261647S					
County: ALL Township:	Shawnee City: (In or	Near) Near Lima					
Railroad Name: R.J. Corman Railroad	Railroad Division: Western OH Line	Branch/Line Name:					
Nearest RR Timetable Station: Kemp		RR Milepost: 56.27					
On-Site Review Team							
	(Include: Name-Organization-Phone Number-Email) 1. Don DAMRON, ORDC, 614 917-8466, don. clamvon@clot.ohio.gov. 2. Chinis Clark, RJ Cornan chais, Clarke rijearman.cam 859-361-7424						
2 Rue Dennings DT Can	-10 95Q12/2/2/	guy.denning s@rjeorman.com					
5. Cover Augustynian Buckey	e 4173715103	Caugestyniax @ Genting Const. Com					
		aregedanzeryahoo, com					
7 Toda Trucketal Shin	mus Car Dont (4/9)	23d 11116 Chiet @ shower tooks and					
8. DAULO BELTON Shawnes Twp Trustee 419,991.8706 trusterday Shawner township.com							
8 NATIO DELION DUST	unte lup (rustee T	19, 181.8 766 TUSTERGANG & Shruner					
9	unes Jup (rustee T	township.com					
9.	unes Two trustee 7	township.com					
Existing Traffic Control Devices							
Existing Traffic Control Devices Type of Warning Devices	installed?	Quantity/Comments					
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?)	installed? ☑Yes □ No						
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs	installed? ☑Yes ☐ No ☐ Yes ☑ No						
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs	installed? □ Yes □ No □ Yes □ No □ Yes □ No						
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?)	installed? If Yes No Yes DANo Yes DANo OPFes No	Quantity/Comments					
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks	installed? Lifes No Yes Life Yes Life Offes No	Quantity/Comments Quantity/Comments YIELD SIGD WILL REMAIN					
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) "Stop' Signs "Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs	installed?	Quantity/Comments Quantity/Comments YIELD SIGN WILL REMAIN ONE TRACK					
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags	Installed?	Quantity/Comments YIELD SIGD WILL REMAIN ONE TRACK					
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal	Installed?	Quantity/Comments YIELD SIGD WILL REMAIN ONE TRACK					
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags	Installed? No Yes Mo Yes Yes Mo Yes M	Quantity/Comments YIELD SIGD WILL REMAIN ONE TRACK					
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights	Installed?	Quantity/Comments YIELD SIGD WILL REMAIN ONE TRACK Number: Length:					
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights	Installed?	Quantity/Comments YIELD SIGD WILL REMAIN ONE TRACK Number: Length:					
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights	Installed? No Yes No No No No No No No N	Quantity/Comments YIELD SIGN WILL REMAIN ONE TRACK Number: Length:					
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates	Installed!	Quantity/Comments YIELD SIGD WILL REMAIN ONE TRACK Number: Length: Number: Length:					
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells	Installed!	Quantity/Comments Sign Will Remain Owe Track Number: Length: Number: Length: Number:					
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells Sidewalk Gate Arms	Installed?	Quantity/Comments Sign Will Remain Owe Track Number: Length: Number: Length: Number:					
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs (condition?) 'Stop' Signs 'Stop Ahead' Signs Pavement Markings (condition?) Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells Sidewalk Gate Arms 'No Turn' Signs	Installed?	Quantity/Comments YIELD SIGD WILL REMAIN ONE TRACK Number: Length: Number: Length:					

* Note train count reduction is season

Safety Data (Obtain crash reports, if possible, prior to review)					
		ial Information (from database)	Revised		
Number & dates of crashes	0				
in previous 5 years					
Hazard Ranking	2782	Date Run: 3/8/2016	5449 - REVISED 4-18-16		
"Railroad Data					
Railroad Characteristics		Initial Information (from database)	Revised		
Total trains per day		1	1 /BEH /2 2 TRAINS /WEEK		
< I per day			Doug		
Day thru trains					
Night thru trains			TOUT AND BACK		
Daytime switching moveme			SERVES LOCAL		
Nighttime switching mover	nents		TUDUSTRY ON		
Total number of tracks		1	WEST SIDE OF LIMA.		
Number of main tracks		1 7	HIGH SEDSON TRAIN COOMT = 1/DM		
Number of other tracks			140 4:024		
Maximum train speed		25	10 HPM		
Typical train speed		25	10 MPA		
Amtrak					
If non-gated crossing, is clearing	g sight distan	ce adequate in all quadrants? (See Table 1)	res No		
If multiple tracks, can two train	ns occupy cro	ossing at the same time? Yes 7/10			
Can one train block the motor	rists' view of	another train at crossing? Yes (Explain be	elow) PTO		
Can one or more tracks be eli			· —		
Are there other track(s) cross	ing this same	roadway within 100 ft of this crossing?	Yes THING		
If yes, Crossing DOT #(if d			_		
If yes, distance	(take me	asurement between track centerlines at close	est point along roadway)		
Roadway Data					
Local Highway Authority:		Shawnee Township			
Roadway Characteri	stics	Initial Information (from database)	Revised		
Average dally traffic		1412 (2014)	3179 REVISED		
Highway paved		X Yes No	Yes No		
Roadway Surface: 🕡 Blackto	Gravel	Concrete Other			
Roadway width: 20 ft.					
Number of highway lanes		2			
Urban or Rural		Rural			
Vehicle Speed: 55 MPH					
School Bus Operation: No Yes _Amount + EACH WAY ATLEAST 2-PM+2-AM					
Hazardous Materials Trucks: No Yes <u>.05</u> Amount					
Shoulders: V No Yes					
Is the shoulder surfaced? Tho Yes					
ls there existing guardrail along roadway in crossing vicinity? 🗂 No 🔠 Yes					
Is stopping site distance adequate? (See Table 2) Yes No If no, deficient approach(es)					

^{*} ROADNAY CLOSSING SULFACE IS IN POOR CONDITION.

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 Pres						
Is sidewalk present? W No Yes						
Is there a nearby intersection that could cause queuing over the cr	rossing? No Yes					
If yes, Distance						
Is this intersection signalized? No Yes						
Are the signals currently interconnected with the existing crossi	ing 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, nearly location in the foreseeable future? No Yes	by new or upgraded traffic signal, sidewalk) planned at or near this					
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						
	APPLESEED LOCATED					
	A OROSSING					
Utility Information						
Is commercial power available? No Yes						
Utility Provider (Company Name)	Phone Number					
Nearest Available Power Source						
What other utilities are present?						
Is(are) there potential utility conflict(s)						
Comments: * VG PETROLEUM						
* UG GAS						
X OH POWER						
X OH POWER X OH CABLE						
17 1100						

Potential Red Flags / Project Challenges
Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known):
NA
Crossing Consolidation or Closure:
NA
Real Estate or ROW:
NA
Culverts / Drainage / Ballast Conditions:
NA
Roadway and/or Sidewalks:
POSSIBLE NEW SURFACE NEEDED
Circuitry (e.g. reaches out to other crossings, specific needs, etc.):
COME FAUHABLEERS MAY BE NEEDED.
SHUNT ENHANCERS MAY BE NEEDED. TOO FEW TRAINS IN OFF-SEASON.
Environmental:
NA
Other:

ALSO: SEE UPDATED RECOMMENDATIONS (ATTACHED)

Diagnostic Team Recommendations	
	Quadrants Needed
Install/upgrade 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)	See attached
Comments: * CONSIDER UPGRADE FOLLOW! RE-RUN FORMULA RANG THE	NG DISCUSSION W/ PUCO AND. NO DISCUSS W/ TWP. (FOR DECUSION)
Install/upgrade traffic signal preemption	
□ No improvements needed	
☑ Other (define)	5-23-16: ALSO SEE UPDATED
*SEE COMMENTS BELOW	5-23-16: ALSO SEE UPDATED RECOMMENDATIONS.
acknowledgement): Dail L. Belter Christ Clark Dail L. Belter Christ Clar	h angue
Field Dimensions	
Sidewalk NA Show North Direction	· SCHOOL BUSES: 4/DAY, · OBSTRUCTED VISIBILITY. · SAFETY UPGRADE MAY BE
	"BUT: RR DOWNGRADE (SPEEDTRANS)
Roadway	-10 MPH TRACK + PROBLEM
Roadway	W/ SHUNTING TOO FEW NS.
Parkway Sidewalk	* WILL NEED STYLE-C CIRCUITS - SHUNT ENMANCERS. * MAY NEED A NEW SURFACE.
	NO STOP SIGN; YIELD SIGN WILL REMAIN.

UPDATED RECOMMENDATIONS 5-23-16:

Diagnostic Team Recommendations	
Diagnostic Team Neconimendations	Quadrants Needed
Install/upgrade active devices	Statu and thebase
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)	
Comments: CONVERSATION WITH RAILR	DAN COUEIRMEN SEASONAL
CONVERSATION WITH RAILR	I COULT OF OUE LOW
TRAIN COUNT WITH A HIG	A COUNT OF UNE / DAY,
WHICH CONFIRMS INITIAL H	
☐ Install/upgrade traffic signal preemption	
☐ No improvements needed	
Other (define) CROSSING SURFACE WI	LL LIKELY NEED TO BE
REPLACED AND SHOULD	BE EVALUATED BY THE RALRISE
Acknowledgement of Recommendations (each entity represented	
acknowledgement):	•
, ·	
(************************************	
Field Dimensions	
	5 -6 111
	5-26-16°
Sidewalk Show North	5-26-16 SEE ATTACHED REVIEW
Sidewalk Oirection	
	OF SURFACE
Parkway NA	
	"NEW SURFACE IS RECOMMENDED."
Roadway	NEW STRING
10	DA SHUGHIDED
	/ECUMPIERO
NO. +	
10 Roadway	
NA Parkway	
Sidewalk	

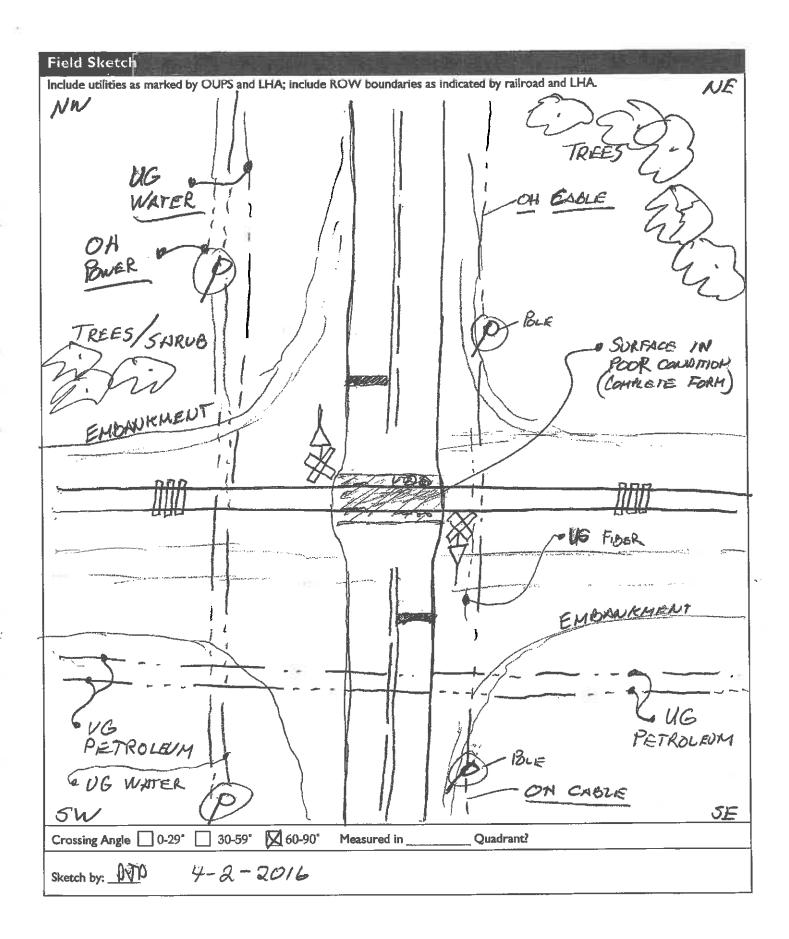


TABLE |

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 trallers 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

11 0	
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
(35)	(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.

County: ALL Route: 1 R 176	DOT#: <u>46/64/</u>
· · · · · · · · · · · · · · · · · · ·	
Surface type	Condition
☐ Rubber seal and asphalt	□ Good
☐ Timber and asphalt	□ Fair
Asphalt	Poor
☐ Composite	Comments: CRACKED ASPRALT
☐ Concrete panel	Comments. Divokato Age vices
•	FILLED POT HOLES; RAIL BED
☐ Full-depth timber	VILLED TOT HOLES, WHILE ISE!
☐ Full-depth rubber	AND TIES DETERIATED
Other	AND THE DETERMANCE
Is the surface good and sufficient?	Yes / (No
	TOMIBLE TRAFFIC IN RESIDENTIAL
AREA.	TOMOLE TRAFFIC TO RESTRE
Surface conditions:	1
Can vehicles cross at posted speed? /	6, RAIL/SURFACE 15 ROUGH
Local observations/driver behaviors:	100T SLOW DOWN OVER
CROSSING	
Relevant crash history:	
Do existing surface conditions have negative effect	
Explain: YES, THE SURFACE N	AT TWO PAIL HOIDIS
ON OR WELD TRAVEL E	FORE OF ASPASLT ROSDWAY
UNJURNEAR TRAVELE	POR OF NOT THE TOUR OF
TOACH BEN VISHATES &	S DUTOS PASS OVER CROSSING
MACK DEV VIIJIEVEZ A	S AUTEU TAUS OVER CAUSING
Comments:	
TE MORALINE DE MINAR	ING DEVIKES IS RECOHMENDED
THAN THE BURFACE CO	NOITION WILL NEED TO
BE ADDRESSED BY THE	RAILKOND TO ENSURE
WARNING DEVICES OPER	DIE ETPECTIVELY
OTN	
orm completed by: DFD	Date: <u>5-26-16</u>

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

3/8/2017 12:39:15 PM

in

Case No(s). 17-0682-RR-FED

Summary: Memorandum In the Matter of a Request for the Installation of Active Warning Devices at the RJ Corman Railroad Crossing, S. Copus Road/TR 146 DOT#261-647S in Allen County, Ohio. electronically filed by Mrs. Jill A Henry on behalf of PUCO/Rail Division