

Memo

To: Docketing Division

From: Jill Henry, Rail Specialist, Rail Division

Cc: PUCO Legal Department

Date: 7/30/19

Re: PUCO Case No. 18-267-RR-STP- In the Matter of a Request for the Installation of Active Warning Devices at the Indiana & Ohio Railroad Crossing on Morrow Rossburg Road (DOT#151-316B) in Warren County, Ohio.

On January 23, 2018, Commission Staff (PUCO), the Ohio Rail Development Commission(ORDC), Warren County, and Indiana & Ohio Railroad (IORY) entered into an agreement whereby active warning devices would be installed at Morrow Rossburg Road (DOT#151-316B).

On March 14, 2018, the Commission issued a Finding and Order approving the project, requiring plans and estimates by June 14, 2018, and ordering project completion by March 14, 2019.

On June 8, 2018, IORY filed with the Rail Division plans and estimates for the projects. Staff gave preliminary approval of the plans and estimates on July 20, 2018. Full authorization to be granted once bidding has been completed and a full set of plans have been reviewed by Staff.

On July 29, 2019, IORY filed with the Rail Division a final and complete set of plans and estimates for the project.

The plans and estimates submitted by IORY have been reviewed and authorization is recommended. (See attached documentation.)



Public Utilities Commission

Mike DeWine, Governor
Sam Randazzo, Chairman

Commissioners

M. Beth Trombold
Lawrence K. Friedman
Dennis P. Deters
Daniel R. Conway

July 30, 2019

Mr. Christopher Frank
Mid West Region Railroads
Indiana & Ohio Railway
4349 Easton Way, Suite 110
Columbus, Ohio 43219

Re: Indiana & Ohio Railway Grade Crossing
Morrow Rossburg Road/CR 27
(DOT#151-316B)


Indiana & Ohio Railway (IORY) is authorized to proceed with construction for the above referenced project. This authorization is contingent upon the following:

- 1) IORY will make any adjustments to the plans noted in the field report docketed July 30, 2019 (Attached).
- 2) IORY will furnish e-mail, fax, or phone notification five (5) working days prior to the date work will start at the project site. Notification to be made to Jill Henry, PUCO, at E-MAIL jill.henry@puco.ohio.gov, or PHONE 614-466-0435 and to Michael Lynch, ORDC at E-MAIL Michael.Lynch@dot.ohio.gov or PHONE 614-395-1824.
- 3) IORY will arrange for utilities to be relocated and/or dropped (as soon as possible) at the project site through the applicable utility company.
- 4) IORY 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 OUPS service must be contacted directly by IORY.
- 5) IORY's project foreman will notify the PUCO Railroad Inspector & ORDC's project manager of any changes in the scope of work, cost overruns, material changes, etc. which are not included in the approved plan and estimates and secure approval of same before the work is performed.
- 6) IORY will furnish three (3) copies of each partial bill to the PUCO & ORDC.

- 7) IORY will furnish three (3) copies of the final-inclusive bill to PUCO & ORDC stating that exact dates of starting and completing work, the initial and final dates of construction and location where the accounts may be audited.
- 8) IORY will furnish as-built detailed circuit plans directly to the PUCO & ORDC.
- 9) IORY is to schedule and complete the subject project by June 14, 2019. If any extraordinary circumstances unique to this project occur, please notify the Commission's rail staff immediately.

Thank you for your cooperation in this matter.

Sincerely,



Jill Henry
Rail Specialist
PUCO Railroad Division

Enclosure

cc: File

**PUBLIC UTILITIES COMMISSION OF OHIO
TRANSPORTATION DEPARTMENT
RAIL DIVISION**

Date of Assignment: July 29, 2019

Subject: Plans and estimates review for active warning devices at Morrow-Rossburg Road (151-316B), Indiana & Ohio Railway, Warren County.

DOT #: 151-316B

FINDINGS

On July 29, 2019, the plans and estimates for the above mentioned crossing were received from Indiana & Ohio Railway (IORY). They were reviewed by Jill Henry, PUCO Rail Specialist, Shawn Zurfley, FRA/PUCO Field Investigator, and Michael Lynch, Ohio Rail Development Commission, Project Manager.

Morrow-Rossburg Road is a rural roadway traveling North/South and intersecting a single track of IORY traveling East/West. Existing warning devices include advanced warning signs, pavement markings, stop signs and crossbucks.

SUMMARY AND CONCLUSIONS

We reviewed the plans and estimates for the crossing. The plans and estimates appear to be fundamentally correct. Construction authorization is granted for this project with the following conditions:

- 1) The bungalow in Q4 should be placed no closer to the edge of tracks than the 21.5' indicated on the plans. Staff would prefer placement closer to the 25' Ohio Manual of Uniform Traffic Control Devices (OMUTCD) placement recommendation.

Jill Henry
PUCO Rail Specialist
Date: July 30, 2019

Force Account Estimate

Estimate to Complete

Railroad:	Indiana & Ohio Railway (IORY)	Region:	MIDWEST
Agency:	ORDC PUCO	State:	OH
DOT #:	151316B	COUNTY:	Warren
ROADWAY:	Washington St	CITY:	Pleasant Plain
DESCRIPTION:	Installation of Flashing Lights and Roadway Gates, new signal bungalow, MS 4000		
AGENCY PROJECT NUMBER:		18-267-RR-STP	ESTIMATE SUBJECT TO REVISION AFTER:
			01/07/20

PRELIMINARY ENGINEERING:

Contracted & Administrative Engineering Services	\$	8,000
Subtotal	\$	8,000

CONSTRUCTION & CLOSEOUT:

Contracted & Administrative Engineering Services	\$	16,500
Subtotal	\$	16,500

FLAGGING SERVICE:

Contracted or Railroad Flagmen Services	5	Days	\$	7,000
Subtotal			\$	7,000

UTILITY WORK:

Power Service	\$	-
Other	\$	-
Subtotal	\$	-

CONTRACT WORK:

Outside Services	\$	-
Design & Labor & Material	\$	106,446
Subtotal	\$	106,446

RAILROAD TRACK:

Labor & Material	\$	-
Subtotal	\$	-

RAILROAD SIGNAL & COMMUNICATION:

Labor & Material	\$	-
Subtotal	\$	-

PROJECT SUBTOTAL:

		\$	142,946
Public Project Admin:	3.00%	\$	4,288
Contingencies:	0.00%	\$	-

PROJECT TOTAL:

	*****	\$	147,234
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CURRENT AUTHORIZED BUDGET:

	*****	\$	-
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TOTAL SUPPLEMENT REQUESTED:

	*****	\$	147,234
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DIVISION OF COST:

Agency	100.00%	\$	147,234
Railroad	0.00%	\$	-

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

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 the railroad 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.

Estimated prepared by: DS Approved by: JAS Public Project Department
DATE: 07/11/19 REVISED: 07/11/19 DATE: 07/12/19

REVISION NO.

DWG. NO.	DESCRIPTION	1	2	3	4	5	6	7
34.96-IORY-01	INDEX							
34.96-IORY-02	SITE LAYOUT							
34.96-IORY-03	AC POWER DISTRIBUTION							
34.96-IORY-04	BATTERY AND P. O. CIRCUITS							
34.96-IORY-05	MS4000 CIRCUITS AND PROGRAMMING							
34.96-IORY-06	CROSSING CONTROL CIRCUITS - SSC3IIA							
34.96-IORY-07	SSC3IIA HISTORY CARD							
34.96-IORY-08	GATE CONTROL AND LIGHTING CIRCUITS GATE 1							
34.96-IORY-09	GATE CONTROL AND LIGHTING CIRCUITS GATE 2							
34.96-IORY-10	RECORDER CIRCUITS							
34.96-IORY-11	HOUSE LAYOUT, SIDES A AND C							
34.96-IORY-12	TERMINAL BOARD LAYOUT, SIDE B							
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								

[illegible] **NEW WORK** **RAIL SYSTEMS**

JOB #0958
DATE: 07-08-19
DRAWING NO. 34.96-10RY-01

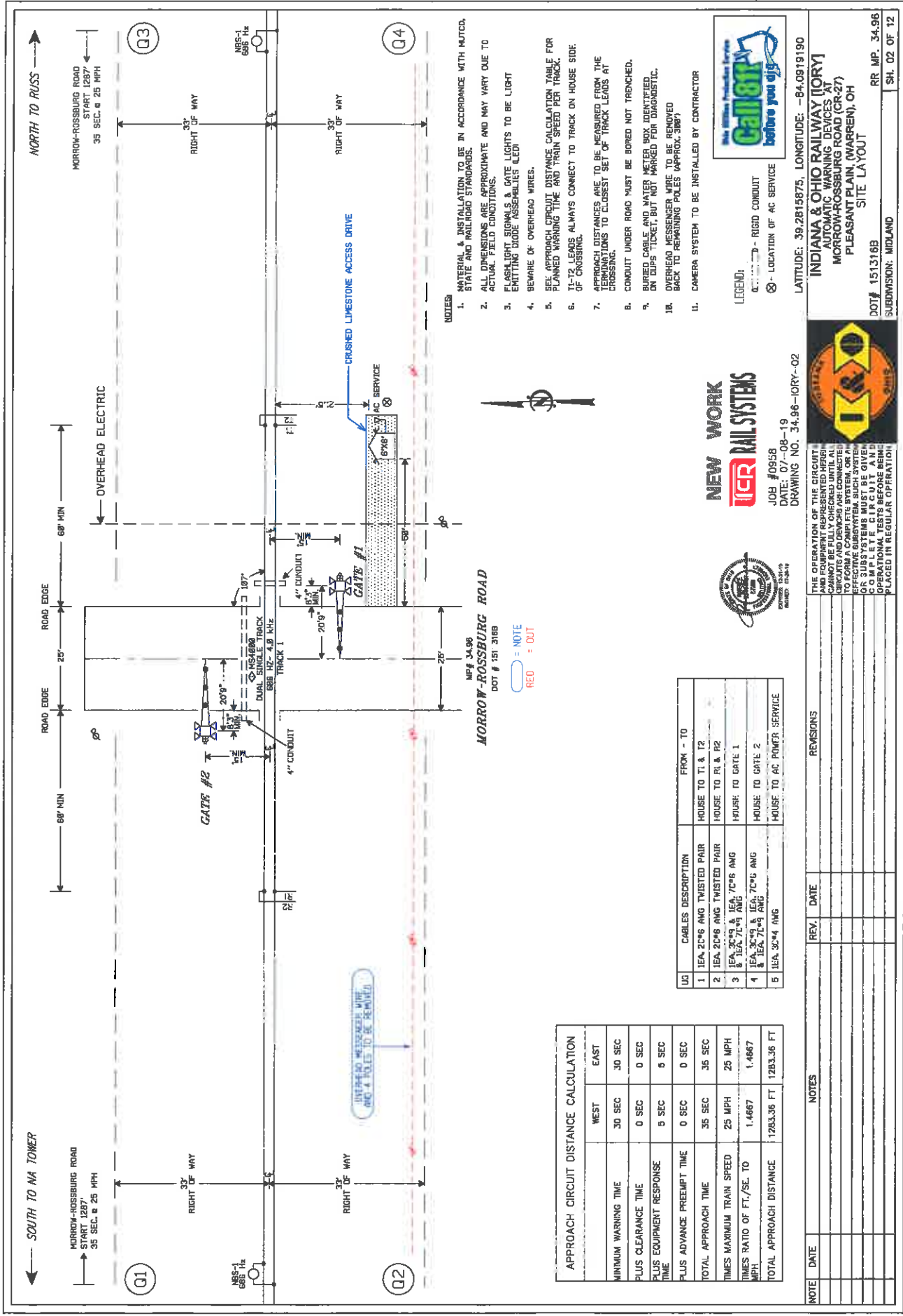
LATITUDE: 39.2815875, LONGITUDE: -84.0919190

INDIANA & OHIO RAILWAY [IORY]
AUTOMATIC WARNING DEVICES AT
MORROW-ROSSBURG ROAD (CR-27)
PLEASANT PLAIN, (WARREN), OH
INDEX

INDEX	RR MP. 34.96
DOT# 151316B	SH. 01 OF 12
SUBDIVISION: MIDLAND	



THE OPERATION OF THE CIRCUIT AND EQUIPMENT REPRESENTED HEREIN CANNOT BE FULLY CHECKED UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM, OR AN EFFECTIVE SUBSYSTEM. SUCH SYSTEMS OR SUBSYSTEMS MUST BE GIVEN A COMPLETE CIRCUIT AND OPERATIONAL TESTS BEFORE BEING PLACED IN REGULAR OPERATION.



← SOUTH TO NA TOWER

→ NORTH TO RUSS

MORROW-ROSSBURG ROAD
START 1287'
35 SEC @ 25 MPH

MORROW-ROSSBURG ROAD
START 1287'
35 SEC @ 25 MPH

Q1

Q3

RIGHT OF WAY

RIGHT OF WAY

Q2

Q4

RIGHT OF WAY

RIGHT OF WAY

Q2

Q4

NOTES

1. MATERIAL & INSTALLATION TO BE IN ACCORDANCE WITH MUTCD, STATE AND RAILROAD STANDARDS.
2. ALL DIMENSIONS ARE APPROXIMATE AND MAY VARY DUE TO ACTUAL FIELD CONDITIONS.
3. FLASHLIGHT SIGNALS & GATE LIGHTS TO BE LIGHT EMITTING DIODE ASSEMBLIES (LED)
4. BEWARE OF OVERHEAD WIRES.
5. SEE APPROACH CIRCUIT DISTANCE CALCULATION TABLE FOR PLANNED WARNING TIME AND TRAIN SPEED PER TRACK.
6. 11-72 LEADS ALWAYS CONNECT TO TRACK ON HOUSE SIDE OF CROSSING.
7. APPROACH DISTANCES ARE TO BE MEASURED FROM THE BEGINNING OF THE CLOSEST SET OF TRACK LEADS AT CROSSING.
8. CONDUIT UNDER ROAD MUST BE BORED NOT TRENCHED.
9. BURIED CABLE AND WATER METER BOX IDENTIFIED ON CLIPS TICKET, BUT NOT MARKED FOR DIAGNOSTIC.
10. OVERHEAD MESSENGER WIRE TO BE REMOVED BACK TO REMAINING POLES APPROX. 380'
11. CAMERA SYSTEM TO BE INSTALLED BY CONTRACTOR

MORROW-ROSSBURG ROAD
MP# 34.96
DOT # 151 316B

RED = DUT
BLUE = NOTE

APPROACH CIRCUIT DISTANCE CALCULATION

	WEST	EAST
MINIMUM WARNING TIME	30 SEC	30 SEC
PLUS CLEARANCE TIME	0 SEC	0 SEC
PLUS EQUIPMENT RESPONSE TIME	5 SEC	5 SEC
PLUS ADVANCE PREEMPT TIME	0 SEC	0 SEC
TOTAL APPROACH TIME	35 SEC	35 SEC
TIMES MAXIMUM TRAIN SPEED	25 MPH	25 MPH
TIMES RATIO OF FT./SEC. TO MPH	1.4667	1.4667
TOTAL APPROACH DISTANCE	1283.36 FT	1283.36 FT

UC	CABLES DESCRIPTION	FROM - TO
1	1EA 20# ANG TWISTED PAIR	HOUSE TO T1 & T2
2	1EA 20# ANG TWISTED PAIR	HOUSE TO RL & R2
3	1EA 30# & 1EA 70# ANG	HOUSE TO GATE 1
4	1EA 30# & 1EA 70# ANG	HOUSE TO GATE 2
5	1EA 30# ANG	HOUSE TO AC POWER SERVICE

NEW WORK
ICR RAIL SYSTEMS



JOB #0958
DATE: 07-08-19
DRAWING NO. 34.96-ICRY-02

LEGEND:
— RIGID CONDUIT
⊗ LOCATION OF AC SERVICE



LATITUDE: 39.2815875, LONGITUDE: -84.0819190

THE OPERATION OF THE CIRCUIT AND EQUIPMENT REPRESENTED HEREIN CANNOT BE FULLY CHECKED UNTIL ALL MATERIALS AND EQUIPMENT ARE IN PLACE TO FORM A COMPLETE SYSTEM. ON A EFFECTIVE SUBSYSTEM SUCH SYSTEM OR SUBSYSTEMS MUST BE GIVEN OPERATIONAL TESTS BEFORE BEING PLACED IN REGULAR OPERATION

NOTE	DATE	REV.	DATE	REVISIONS

INDIANA & OHIO RAILWAY (ICRY)
AUTOMATIC WARNING DEVICES
MORROW-ROSSBURG ROAD (CR27)
PLEASANT PLAIN, (WARREN), OH
SITE 'LA' YOUT



DOT# 151316B
RR MP. 34.96
SUBMISSION: MIDLAND
SH. 02 OF 12



LATITUDE: 39.2815875, LONGITUDE: -84.0919190

THE OPERATION OF THE CIRCUIT AND EQUIPMENT REPRESENTED HEREIN CANNOT BE FULLY CHECKED UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM, OR A EFFECTIVE SUBSYSTEM. SUCH SYSTEMS OR SUBSYSTEMS MUST BE GIVEN A COMPLETE CIRCUIT AND OPERATIONAL TESTS BEFORE BEING PLACED IN REGULAR OPERATION.



INDIANA & OHIO RAILWAY [IORY]
AUTOMATIC WARNING DEVICES AT
MORROW-ROSSBURG ROAD (CR-27)

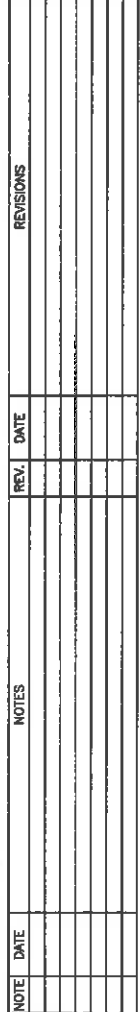
FOR SUBSYSTEMS MUST BE GIVEN
COMPLETE CIRCUIT AND
OPERATIONAL TESTS BEFORE BEING
PLACED IN REGULAR OPERATION

MS4000 CIRCUITS AND PROGRAMMING
1316B

SUBMISSION: MIDLAND

SH. 05 OF 12

[illegible]



SITE SETUP DATA

Sheet 1 of 2

[illegible]

SITE SETUP DATA

[illegible]

COMPONENT		DATE		TIME		LOCATION		STATUS	
LOW THERMISTOR	0 - 200 microamps Inputs 1 - 7 only	11	0	00	00	00	00	00	00
MCP	-	11	0	00	00	00	00	00	00
ATIS Address	0000000000000000	11	0	00	00	00	00	00	00
LOW BATTERY	00 - 10.0 volts, or Disabled Battery Disabled	11	0	00	00	00	00	00	00
AUX /ZC	0000000000000000	11	0	00	00	00	00	00	00
LOWEST LAMP SERIAL NO.	0000000000000000	11	0	00	00	00	00	00	00

BSCC III A HISTORY CARD

Print 2 of 3

SITE SETUP DATA continued

TEST COMPARE				
LAMP TEST CANCEL TIMER:	Default = 5	minutes	minutes	
LAMP TEST DELAY TIMER:	Default = 30	seconds	seconds	
LAMP TEST ON TIMER:	Default = 10	seconds	seconds	
LAMP TEST OFF TIMER:	Default = 10	seconds	seconds	

STANDARD SETUP LAMP VOLTAGES PROCEDURE

USING TRUE RMS AC + DC METER, OR CONVERSION TABLE BELOW

SETUP LINE# VOLUNTARY	Setting Charged By:		Setting Charged By:	
	Date	Notes	Date	Notes
FAM DATE	7/13 =	volts-1.1 =	volts-1.1 =	volts
	7/12 =	volts-1.2 =	volts-1.2 =	volts
	2/11 =	volts-2.1 =	volts-2.1 =	volts
	5/12 =	volts-2.2 =	volts-2.2 =	volts
	7/11 =	volts-1.1 =	volts-1.1 =	volts
SROD H PLUS	7/12 =	volts-1.1 =	volts-1.1 =	volts
	7/13 =	volts-2.1 =	volts-2.1 =	volts
	2/12 =	volts-2.2 =	volts-2.2 =	volts
	7/12 =	volts-1.2 =	volts-1.2 =	volts
	7/13 =	volts-1.1 =	volts-1.1 =	volts
NGRAM DATE	7/12 =	volts-1.2 =	volts-1.2 =	volts
	2/11 =	volts-2.1 =	volts-2.1 =	volts
	5/12 =	volts-2.2 =	volts-2.2 =	volts
	7/13 =	volts-1.1 =	volts-1.1 =	volts
	7/12 =	volts-1.2 =	volts-1.2 =	volts

Multimeter Reading Variance From Actual Lamp Voltage

Battery Bank	Volt. Comp. Output Range (in volts) [1]	Digital Meter (Phase 17 or equivalent)	Analog Meter (Simpson 240 or 1011)
13.2	9.0 to 12.0	1.5 volts below actual value	0.8 volts below actual value
13.6	9.0 to 12.0	2.4 volts below actual value	1.1 volts below actual value
14.7	8.0 to 12.0	2.8 volts below actual value	2.0 volts below actual value
15.8	8.0 to 12.0	2.8 volts below actual value	2.0 volts below actual value

[1] For lamp circuit settings greater than 12.0 vella, reduce the listed value by 30%. Lamp voltage measurement should be accurate to 0.3 vella.



NEW WORK

JOB #0958
DATE: 07-08-19
DRAWING NO. 34.96-10RY-07

Document No.: SSC03PLU5L Informa

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LATITUDE: 39.2815875, LONGITUDE: -84.0919190

INDIANA & OHIO RAILWAY [IORY]
AUTOMATIC WARNING DEVICES AT
MORROW-ROSSBURG ROAD (CR-27)
PLEASANT PLAIN (WARREN), OH
SSCCIIIA HISTORY CARD

BOOK# 151316B	RR MP. 34.96
SUBDIVISION: MIDLAND	SH. 07 OF 12

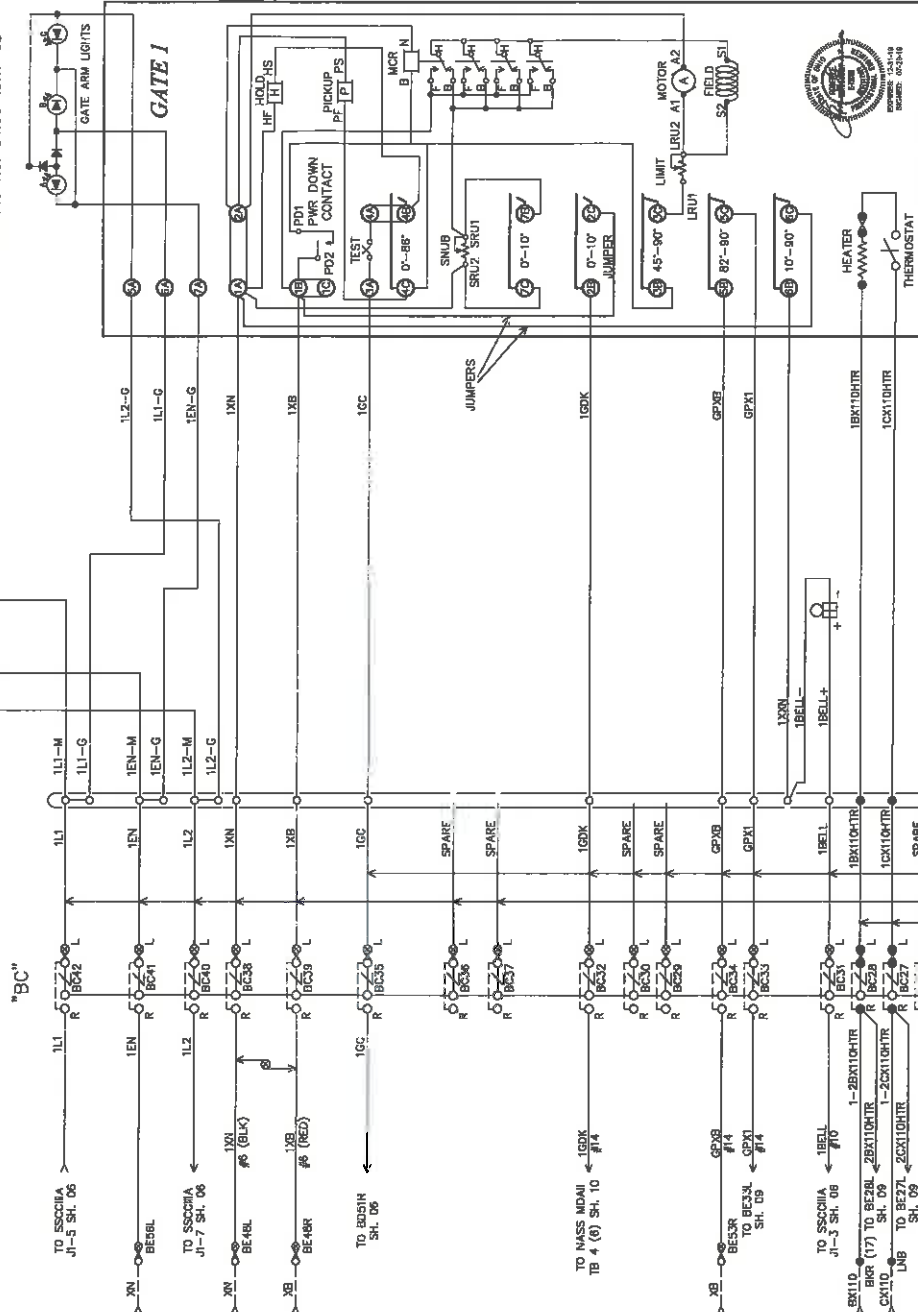
THE OPERATION OF THE CIRCUITRY AND EQUIPMENT REPRESENTED HEREIN CANNOT BE FULLY CHECKED UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM, OR A RESPECTIVE SUBSYSTEM, SUCH AS SYSTEMS OR SUBSYSTEMS MUST BE GIVEN A COMPLETE CIRCUIT AND OPERATIONAL TESTS BEFORE BEING PLACED IN REGULAR OPERATION.

REVISIONS

DATE _____

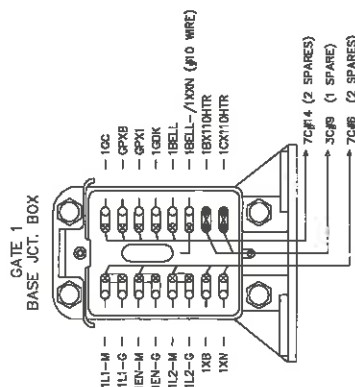
1

DATE	TIME	LOCATION	DESCRIPTION	REMARKS
10/10/2023	10:00	Room 101	Meeting with Mr. Smith	Discussed project progress
10/11/2023	14:30	Room 202	Meeting with Mrs. Jones	Reviewed contract terms
10/12/2023	09:15	Room 303	Meeting with Mr. Brown	Discussed budget details
10/13/2023	11:00	Room 404	Meeting with Ms. White	Reviewed client feedback
10/14/2023	15:45	Room 505	Meeting with Mr. Green	Discussed marketing strategy
10/15/2023	10:30	Room 606	Meeting with Mrs. Black	Reviewed financial reports
10/16/2023	13:20	Room 707	Meeting with Mr. Grey	Discussed HR matters
10/17/2023	08:45	Room 808	Meeting with Ms. Blue	Reviewed legal documents
10/18/2023	16:10	Room 909	Meeting with Mr. Yellow	Discussed IT infrastructure
10/19/2023	12:00	Room 1010	Meeting with Mrs. Purple	Reviewed project timeline
10/20/2023	09:30	Room 1111	Meeting with Mr. Orange	Discussed sales performance
10/21/2023	14:00	Room 1212	Meeting with Ms. Pink	Reviewed customer support
10/22/2023	11:45	Room 1313	Meeting with Mr. Brown	Discussed product development
10/23/2023	10:15	Room 1414	Meeting with Mrs. Jones	Reviewed quality assurance
10/24/2023	15:30	Room 1515	Meeting with Mr. Smith	Discussed future plans
10/25/2023	09:00	Room 1616	Meeting with Ms. White	Reviewed team performance
10/26/2023	13:15	Room 1717	Meeting with Mr. Green	Discussed risk management
10/27/2023	16:45	Room 1818	Meeting with Mrs. Black	Reviewed compliance issues
10/28/2023	11:30	Room 1919	Meeting with Mr. Grey	Discussed innovation projects
10/29/2023	08:15	Room 2020	Meeting with Ms. Blue	Reviewed stakeholder concerns
10/30/2023	14:45	Room 2121	Meeting with Mr. Yellow	Discussed strategic initiatives
10/31/2023	10:00	Room 2222	Meeting with Mrs. Purple	Reviewed annual report



1. GATE MECHANISM SHOWN IN CLEAR POSITION.
2. ALL WIRING THIS SHEET IS #10 UNLESS OTHERWISE NOTED.
3. \times = INTERNAL GATE WIRES THAT SHARE ELECTRICAL CONNECTIONS WITH OTHER WIRES THAT ARE ASSIGNED THE SAME NUMBER.
4. ADD JUMPER FROM 1B TO 2C FOR 100K CIRCUIT.
5. ADD JUMPER FROM 1A TO 6C FOR BELL CIRCUIT.
6. \bullet = INSULATED NUT.

CONTACT	CLOSED	FUNCTION
2	0° - 10°	GATE DOWN
3	45° - 90°	POWER DOWN
4	0° - 86°	POWER UP
5	82° - 90°	GATE CLEAR
6	10° - 90°	BELL
7	0° - 10°	SNUB



W.C.H. MODEL 3593-E

LATITUDE: 39.2815875. LONGITUDE: -84.0919190

INDIANA & OHIO RAILWAY (IORY)

**AUTOMATIC WARNING DEVICES AT
NARROW GORGE ROAD CROSSINGS**

MUKROW-ROSSBURG ROAD (CR-27)
PLEASANT PLAIN, WARREN, OH

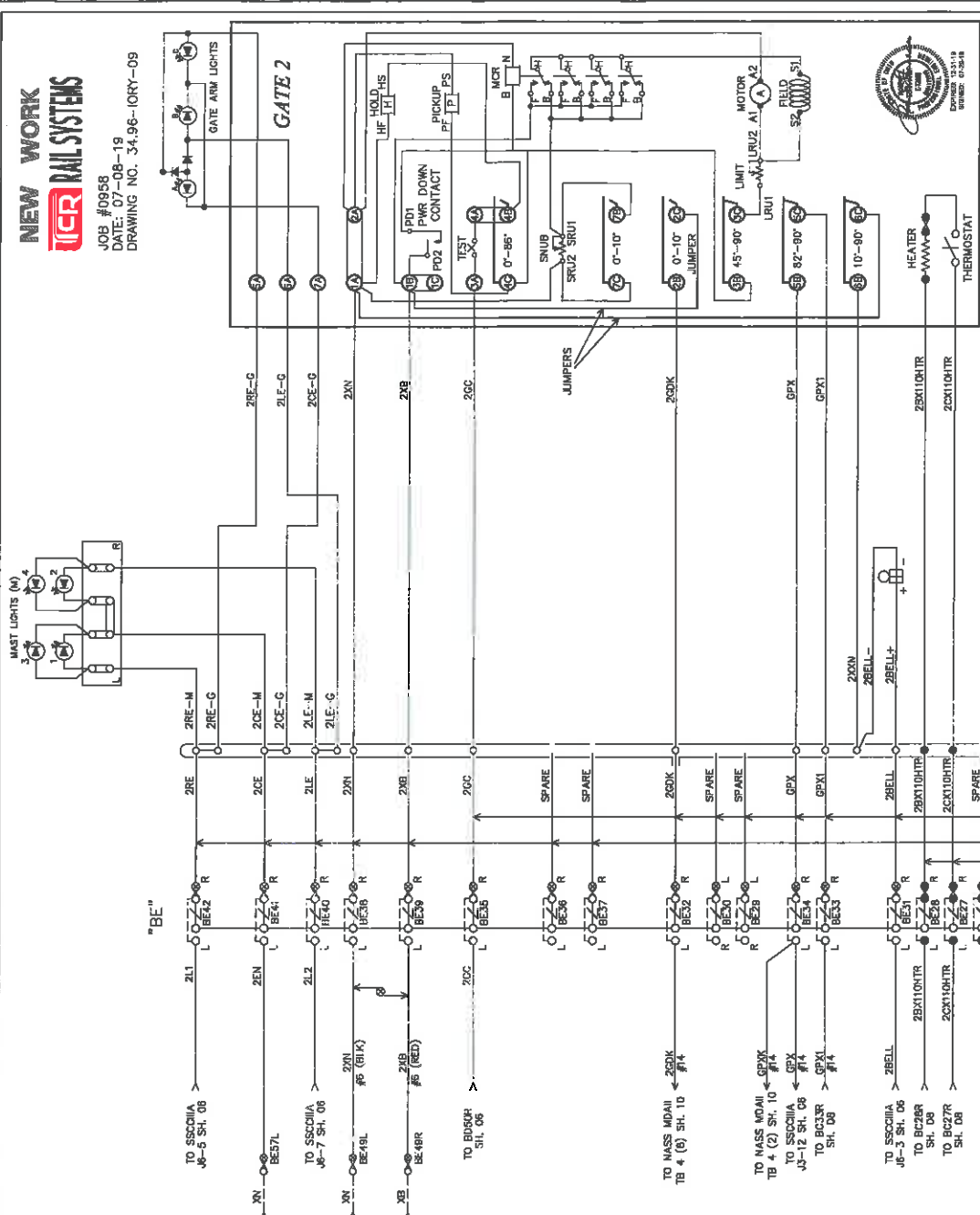
GATE CONTROL AND LIGHTING CIRCUITS GATE 1

151316B

DECLARATION: NONE

THE OPERATION OF THE CIRCUITS CANNOT BE FULLY CHECKED UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM, OR AN EFFECTIVE SUBSYSTEM. SUCH SYSTEMS OR SUBSYSTEMS MUST BE GIVEN A COMPLETE CIRCUIT AND OPERATIONAL TESTS BEFORE BEING USED IN SERVICE.

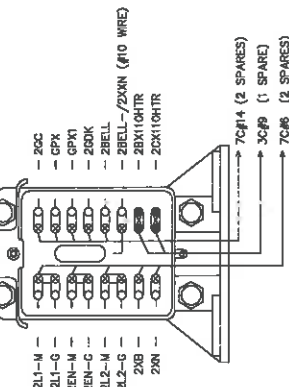
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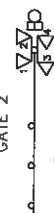
- NOTES:**
1. GATE MECHANISM SHOWN IN CLEAR POSITION.
 2. ALL WIRING THIS SHEET IS #10 FLEX UNLESS OTHERWISE NOTED.
 3. X = INTERNAL GATE WIRES THAT SHARE ELECTRICAL CONNECTIONS WITH OTHER WIRES THAT ARE ASSIGNED THE SAME NUMBER.
 4. ADD JUMPER FROM 1B TO 2C FOR 20K CIRCUIT.
 5. ADD JUMPER FROM 1A TO 6C FOR BELL CIRCUIT.
 6. ● = INSULATED NUT.

CONTACT	CLOSED	FUNCTION
2	0' - 10'	GATE DOWN
3	45' - 90'	POWER DOWN
4	0' - 85'	POWER UP
5	82' - 90'	GATE CLEAR
6	10' - 90'	BELL
7	0' - 10'	SNUB

**GATE 2
BASE JCT. BOX**



GATE 2



W.C.H. MODEL 3593-E

LATITUDE: 39.2815875, LONGITUDE: -84.0919190

INDIANA & OHIO RAILWAY (IORY)
AUTOMATIC WARNING DEVICES AT
MORROW-ROSSBURG ROAD (CR-27)
PLEASANT PLAIN, (WARREN), OH

GATE CONTROL AND LIGHTING CIRCUITS GATE 2
RR MP. 34.96
NOT# 151316B
SUBMISSION: MIDLAND

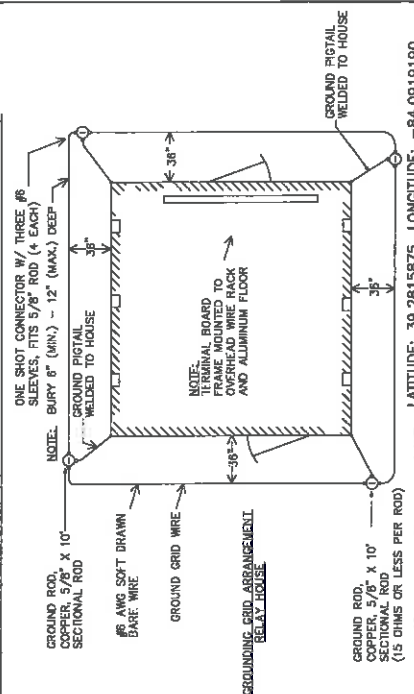
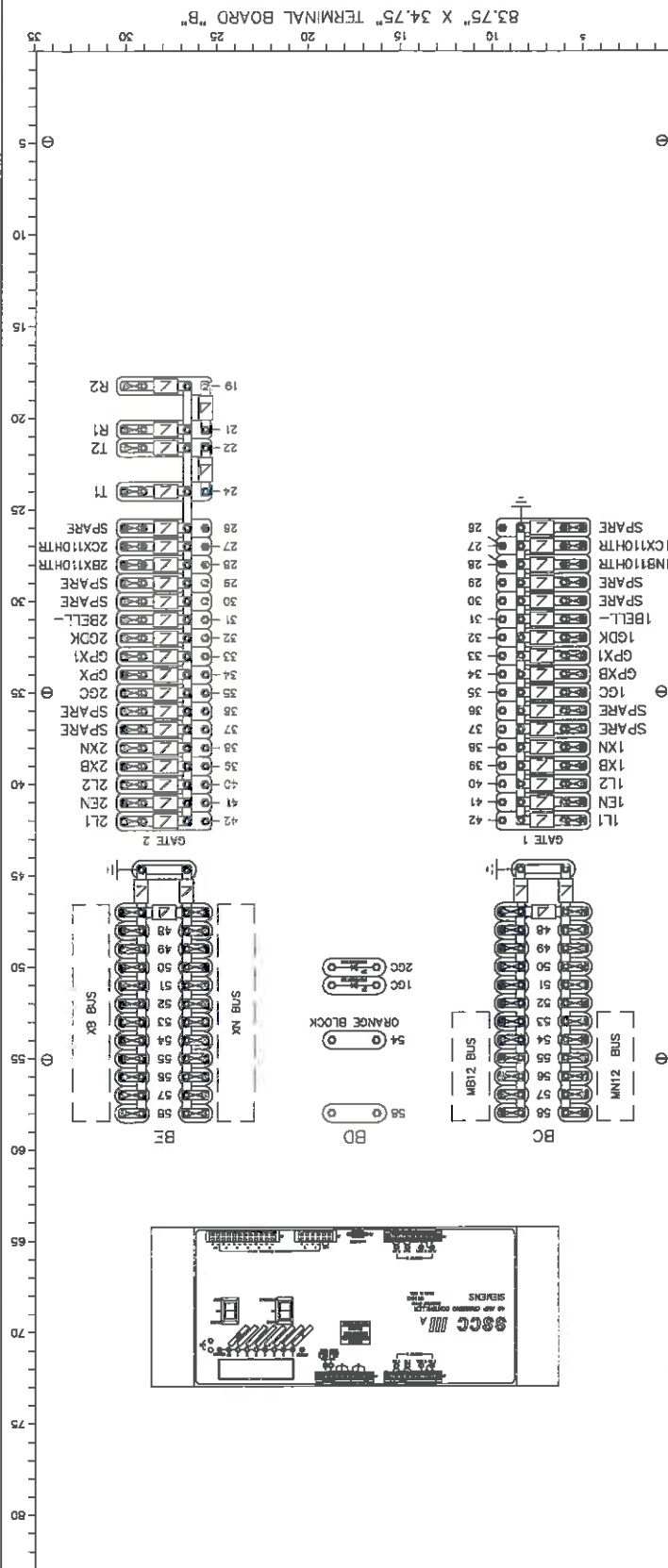
THIS OPERATION OF THE CIRCUIT...
CANNOT BE FULLY OBTAINED UNTIL ALL
COMPONENTS ARE IN PLACE AND
TO FORM A COMPLETE SYSTEM. OR A
EFFECTIVE SUBSYSTEM MUST BE GIVEN
OR SUBSYSTEMS MUST BE GIVEN
OPERATIONAL TESTS BEFORE BEING
PLACED IN REGULAR OPERATION

REVISIONS

REV. DATE

NOTES

NOTE DATE



LATITUDE: 39.2815875, LONGITUDE: -84.0919190

INDIANA & OHIO RAILWAY [10RY]

SHANGHAI RAILWAY [101]
AUTOMATIC WARNING DEVICES AT
MORROW-BOSSELEIGH ROAD (CR-27)

MORROW-ROSSBURG ROAD (CR-27)
PLEASANT PLAIN, WARREN, OH

TERMINAL BOARD LAYOUT - SIDE B

1168 RR

XOT# 151316B

RR MP. 34.96

SUBMISSION: MIDLAND

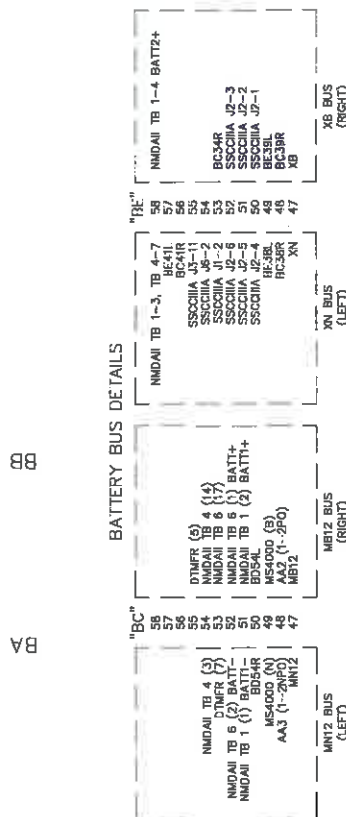
12



NEW WORK

ICR #0958

JOH #0938
DATE: 07-08-19

DATE: 07-08-19
DRAWING NO. 34.96-JORY-12[illegible]

This foregoing document was electronically filed with the Public Utilities

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7/31/2019 1:35:43 PM

in

Case No(s). 18-0267-RR-STP

Summary: Memorandum In the Matter of a Request for the Installation of Active Warning Devices at the Indiana & Ohio Railroad Crossing on Morrow Rossburg Road (DOT#151-316B) in Warren County, Ohio. electronically filed by Mrs. Jill A Henry on behalf of PUCO/Rail Division