Public Utilities
Commission of Ohio

Memo

To: Docketing Division

From: Jill Henry, Rail Specialist, Rail Division

Cc: PUCO Legal Department

Date: 9/12/2018

Re: PUCO Case No. 18-1417-RR-FED- In the Matter of a Request for an Upgrade at the Ohio Central Railroad Crossing, DOT# 474-271P, Dover Road/SR 39 Road in Tuscarawas County, Ohio.

On December 15, 2017, the Ohio Rail Development Commission (ORDC) authorized funding for Ohio Central Railroad (OHCR) to install upgrade circuitry for traffic signal interconnect at Dover Road/SR 39 (DOT#474-271P) in Tuscarawas County, Ohio. The crossing was surveyed on April 21, 2016 and was found to warrant the upgrade. The electric utility provider for this crossing is AEP-Ohio.

The project will be paid for with federal funds and is actual cost. The plans and estimates for the project in the amount of $47,065.60 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 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.**

Please serve the following parties of record:

Ohio Central Railroad
Genesee & Wyoming
Johnny Varner
Assistant VP- Regional Engineering
201 N. Penn Street
Punxsutawney, PA 15767

Ohio Central Railroad
Gene Hensley
Signals Supervisor
47849 Papermill Road
Coshocton, OH 43812

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

Village of Sugarcreek
Clayton Weller
Mayor
410 S. Broadway
Sugarcreek, OH 44681

Dayton Power and Light

OHIO RAIL DEVELOPMENT COMMISSION
INTER-OFFICE COMMUNICATION

TO: **Randall Schumacher, Supervisor, Rail Division, PUCO**

FROM: **Cathy Stout, Manager, Safety Section, ORDC**

BY: **James Tucker, Project Manager, ORDC** J.T.

SUBJECT: **Tuscarawas County, SR 39/Dover Rd, Ohio Central Railroad**
DOT#474271P, PID#103224

DATE: **August 6, 2018**

The Ohio Rail Development Commission (ORDC) established a diagnostic survey at the subject location on April 21, 2016. The Diagnostic Team recommended that the crossing receive circuitry upgrades to interconnect with the new traffic signal to be installed by the Village of Sugarcreek. 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 for nine months. This construction 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.

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.

Attachment: Diagnostic Review
Plan & Estimate

c: Jill Henry, PUCO
Susan Arduni, ORDC
ORDC Project Manager (file)

OHIO RAIL DEVELOPMENT COMMISSION

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

August 6, 2018

Mr. Johnny Varner
Assistant Vice President- Regional Engineering
Genesee & Wyoming/OHCR
201 N. Penn Street
Punxsutawney, PA 15767

RE: Tuscarawas County, SR 39/Dover Rd, DOT#474271P, PID#103224

Dear Mr. Varner:

The bid process for the referenced project has been reviewed and is acceptable. Ohio Central Railroad (OHCR) may proceed with the proposed circuitry upgrade, for the purposes of an interconnect with the new traffic signal being installed by the Village of Sugarcreek, 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 $47,065.60. 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 but must be confirmed in writing within ten (10) business days of the verbal approval.

This authorization is contingent upon OHCR accepting the following instructions:

1. OHCR's project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to James Tucker, ORDC, email james.tucker@dot.ohio.gov, and to the Public Utilities Commission of Ohio, email jill.henry@puco.ohio.gov. OHCR'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. OHCR 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 OHCR.

3. OHCR's project foremen will notify James Tucker at 614-398-6897 (telephone) or james.tucker@dot.ohio.gov (email) of any changes in the scope of work, cost overruns, material changes, etc. which are not included in the approved plan and estimate and secure approval of same before the work is performed.

4. Open cut of roadways is *not permitted* except in unusual circumstances and must be coordinated with the local highway authority and preapproved by ORDC.

5. OHCR will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed Purchase Order to reference when billing.

6. OHCR will furnish two (2) copies of the final all-inclusive bill to ORDC stating the exact dates of starting and completing work, the initial and final dates of construction and location where the accounts may be audited.

7. This installation will include any ancillary work to make the warning devices function as designed and meet MUTCD.

Thank you for your assistance with these matters.

Sincerely,

James Tucker,
Project Manager

Attachment: ODOT P.O.

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

SR39 Dover Rd 141271P estimate

Contractor cost including all field material &labor	$75,000.00
4 channel NVR camera system with battery backup	$1,700.00
Engineering services including plans	$5,000.00
Total	$81,700.00

SR39 Dover Rd Material List. 474271P

6 Safetran 400000 relays or equivalent

Wiring associated with preemption circuits

Alstom 2TC and choke for shunt enhancing

Track shunts

10 NiCad 255AH cells B12 bank

9 NiCad 350AH cells OL bank

PMD-4R 300911-031 and associated wiring

NASS data recorder with DTMF control

4 channel NVR camera system with battery backup

100 amp power service

DWG. NO.	DESCRIPTION	REVISION NO. A	B	C	D	E	F	G	H	J	K
474271P.001	INDEX			/							
474271P.002	SITE LAYOUT			/							
474271P.003	CROSSING CONTROL CIRCUITS	/		/							
474271P.004	CROSSING CONTROL CIRCUITS			/							
474271P.005	TRAFFIC SIGNAL SHEET GCP SETUP SHEET			/							
474271P.006	PMD-4R PROGRAM SHEET PDU RECORDER UNIT	/		/							
474271P.007	NASS MDAII SEA/R RECORDER CIRCUITS			/							
474271P.008	POWER CIRCUITS										
474271P.009	BATTERY CIRCUITS										
474271P.010	LIGHTING CIRCUITS			/							
474271P.011	LIGHTING CIRCUITS			/							
474271P.012	SIGNAL #1 LIGHTING CIRCUITS										
474271P.013	SIGNAL #2 LIGHTING CIRCUITS		/								
474271P.014	6' X 6' ALUMINUM BUNGALOW LAYOUT, SIDEWALL= A			/							
474271P.015	6' X 6' ALUMINUM BUNGALOW LAYOUT, SIDEWALL= C			/							
474271P.016	6' X 6' ALUMINUM BUNGALOW LAYOUT, SIDE B RACK LAYOUT	/		/							
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											

REVISION BLOCK

DATE: 11/15/2002
FINAL PLAN

A DATE: 8/12/2013
2TC ADDED

B DATE: 12/24/2014
GATE 2 CHANGED TO S-60

C DATE: 2/12/2018
ADD ADVANCED PRE-EMPTION

THE OPERATION OF THE ORGANIZATION REPRESENTED HEREON CANNOT BE CHECKED FINAL UNTIL ALL CIRCUITS AND DEVICES ARE CONNECTED TO FORM A COMPLETE SYSTEM OR AN EFFECTIVE PORTION THEREOF. SUCH SYSTEM OR PORTION MUST BE GIVEN A COMPLETE CIRCUIT AND OPERATIONAL TEST BEFORE BEING PLACED IN REGULAR OPERATION.

RED = OUT/REMOVE
GREEN = IN/INSTALL

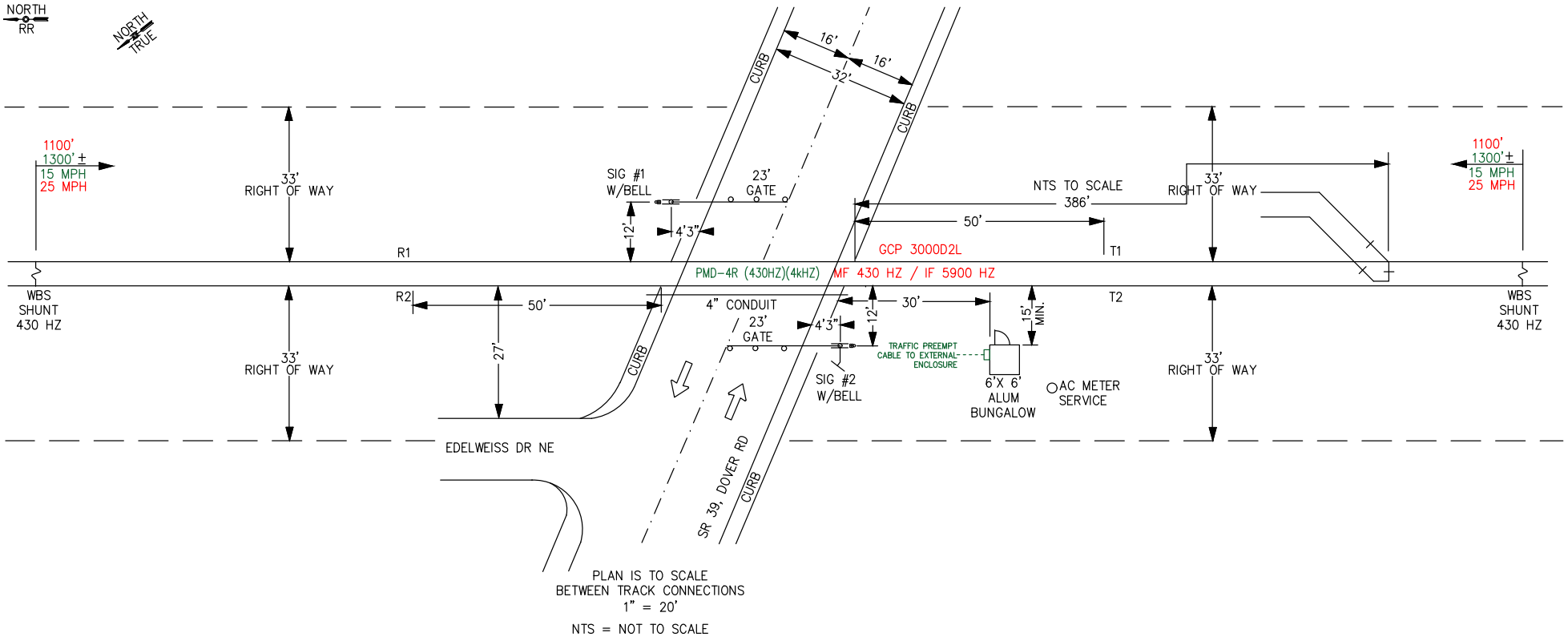
OHIO CENTRAL RAILROAD, INC.

OHIOCENTRAL THE BUCKEYE ROUTE

DWG. NO. 474271P.001

LOCATION SR 39, DOVER ROAD
SUGARCREEK, OH
INDEX

DOT NO. 474-271P
MILE POST 0090.39



SR 39, DOVER RD:

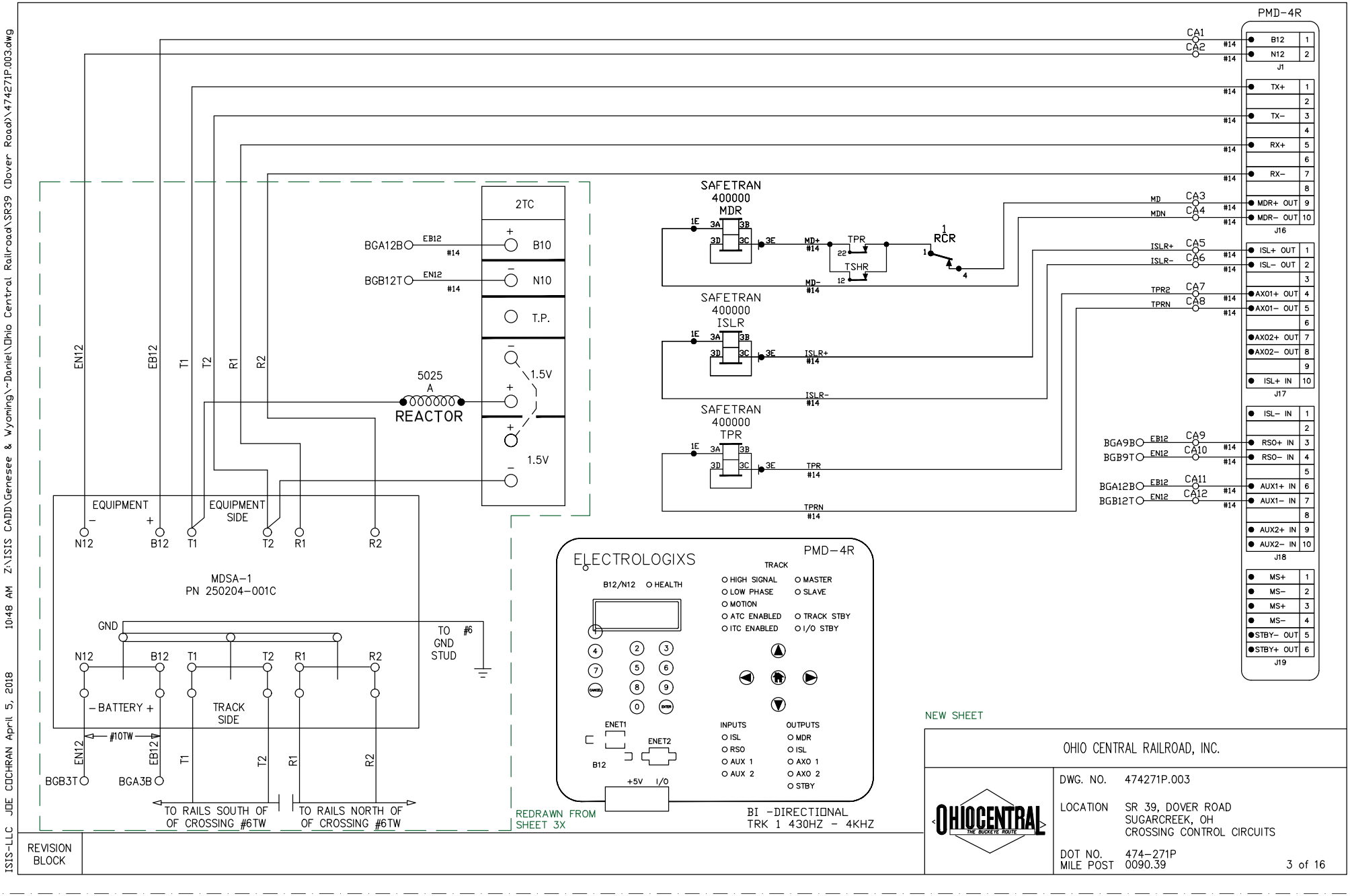
1.) ANY POWER LINES IN AREA WILL NEED TO BE AT LEAST 10' FROM TIP OF GATE. ARM IN RAISED POSITION (VERTICAL)
2.) MEASUREMENTS FOR APPROACHES START AT TRACK WIRE CONNECTIONS.
3.) CONDUIT SHOWN AT APPROXIMATE LOCATION.

RED = OUT/REMOVE
GREEN = IN/INSTALL

OHIO CENTRAL RAILROAD, INC.

DWG. NO.	474271P.002
LOCATION	SR 39, DOVER ROAD SUGARCREEK, OH SITE LAYOUT
DOT NO.	474-271P
MILE POST	0090.39

REVISION BLOCK


PMD-4R
2TC
B10
N10
T.P.
1.5V
1.5V
BGA12B
BGB12T
EB12
EN12
#14
5025
A
REACTOR
EN12
EB12
T1
T2
R1
R2
EQUIPMENT
EQUIPMENT SIDE
N12
B12
T1
T2
R1
R2
MDSA-1
PN 250204-001C
GND
TO #6 GND STUD
- BATTERY +
TRACK SIDE
#10TW
BGB3T
BGA3B
TO RAILS SOUTH OF OF CROSSING #6TW
TO RAILS NORTH OF OF CROSSING #6TW
SAFETRAN 400000 MDR
SAFETRAN 400000 ISLR
SAFETRAN 400000 TPR
MD+
MD-
ISLR+
ISLR-
TPR
TPRN
TPR
TSHR
RCR
MD
MDN
ISLR+
ISLR-
TPR2
TPRN
BGA9B
BGB9T
BGA12B
BGB12T
CA1
CA2
CA3
CA4
CA5
CA6
CA7
CA8
CA9
CA10
CA11
CA12
J1
J16
J17
J18
J19
B12
N12
TX+
TX-
RX+
RX-
MDR+ OUT
MDR- OUT
ISL+ OUT
ISL- OUT
AX01+ OUT
AX01- OUT
AX02+ OUT
AX02- OUT
ISL+ IN
ISL- IN
RSO+ IN
RSO- IN
AUX1+ IN
AUX1- IN
AUX2+ IN
AUX2- IN
MS+
MS-
MS+
MS-
STBY- OUT
STBY+ OUT
ELECTROLOGIXS
PMD-4R
B12/N12 HEALTH
TRACK
HIGH SIGNAL
LOW PHASE
MOTION
ATC ENABLED
ITC ENABLED
MASTER
SLAVE
TRACK STBY
I/O STBY
ENET1
ENET2
B12
+5V I/O
INPUTS
ISL
RSO
AUX 1
AUX 2
OUTPUTS
MDR
ISL
AXO 1
AXO 2
STBY
BI -DIRECTIONAL
TRK 1 430HZ - 4KHZ
REDRAWN FROM SHEET 3X
NEW SHEET
REVISION BLOCK
OHIO CENTRAL RAILROAD, INC.
OHIOCENTRAL
THE BUCKEYE ROUTE
DWG. NO. 474271P.003
LOCATION SR 39, DOVER ROAD
SUGARCREEK, OH
CROSSING CONTROL CIRCUITS
DOT NO. 474-271P
MILE POST 0090.39
3 of 16
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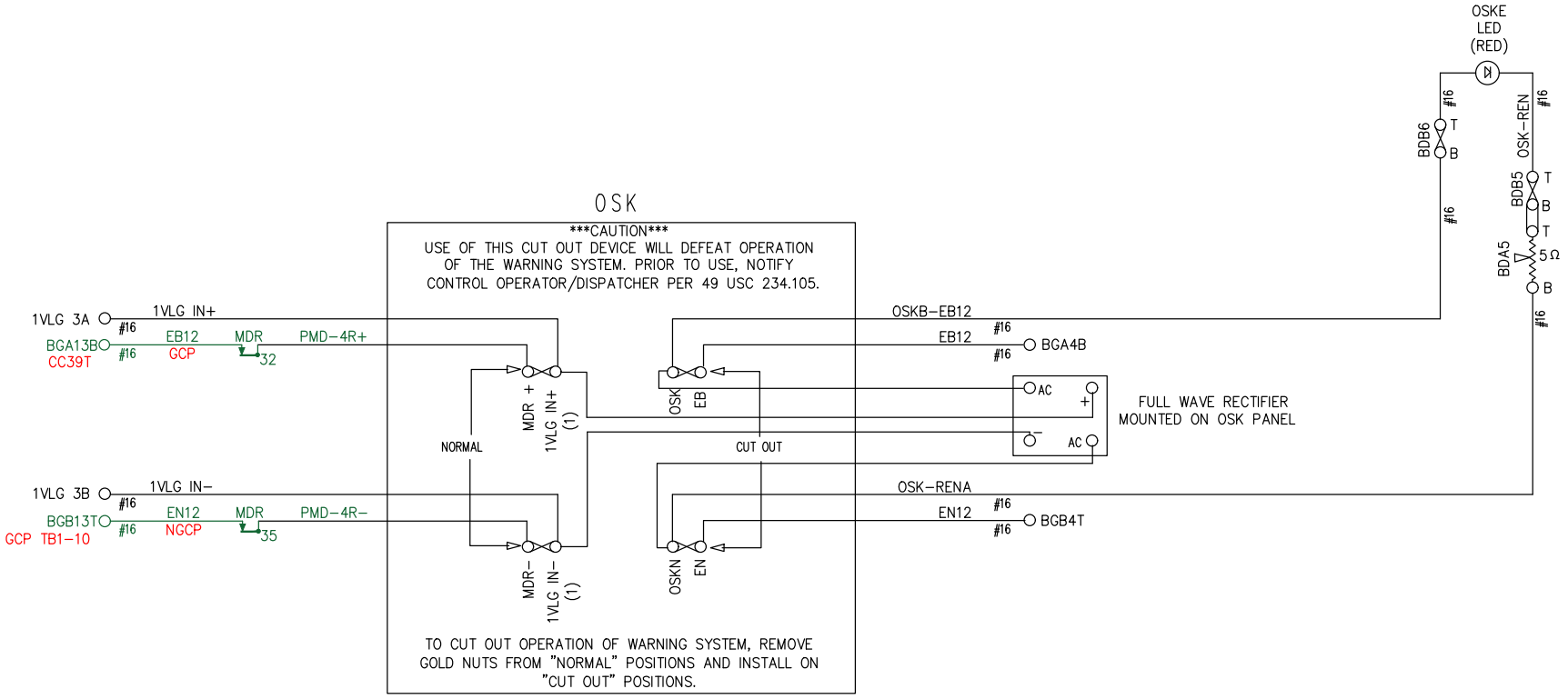

RED = OUT/REMOVE
GREEN = IN/INSTALL

OHIO CENTRAL RAILROAD, INC.

OHIOCENTRAL THE BUCKEYE ROUTE

DWG. NO. 474271P.004

LOCATION SR 39, DOVER ROAD
SUGARCREEK, OH
CROSSING CONTROL CIRCUITS

DOT NO. 474-271P
MILE POST 0090.39

4 of 16

REVISION BLOCK

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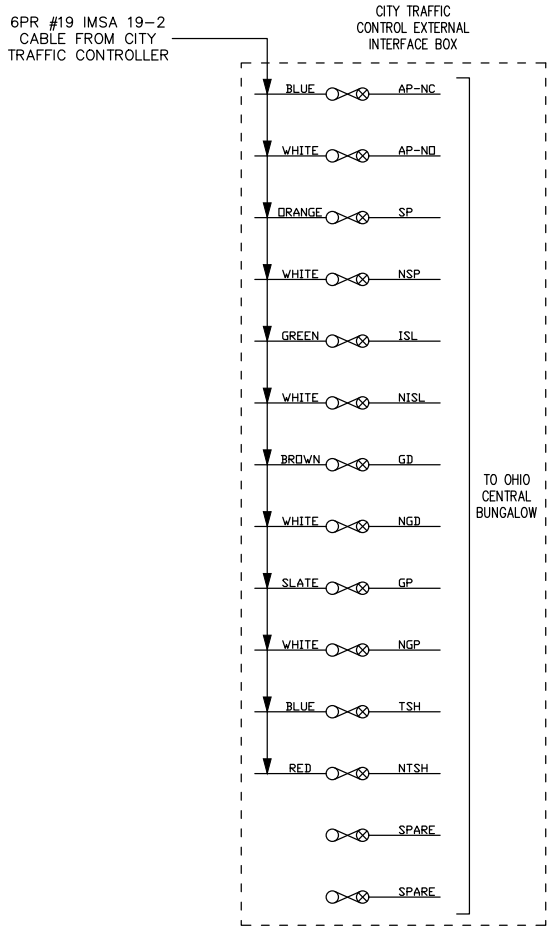
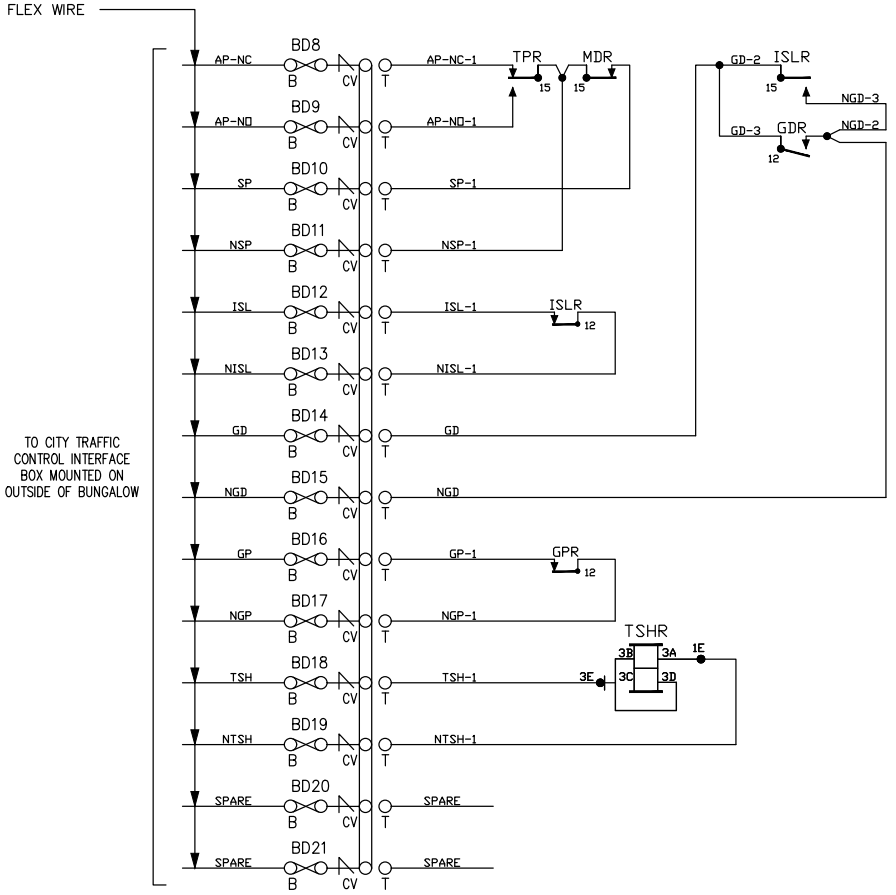




NEW SHEET

REVISION BLOCK	

OHIO CENTRAL RAILROAD, INC.

OHIOCENTRAL THE BUCKEYE ROUTE

DWG. NO.	474271P.005
LOCATION	SR 39, DOVER ROAD SUGARCREEK, OH CROSSING CONTROL CIRCUITS
DOT NO.	474-271P
MILE POST	0090.39

PROGRAM INFORMATION
PMD-4R

Parameter Name	Track 1
Approach Length	1300 ft
Approach Frequency	430Hz
Transmitter Check Value (-7.0 to 13.0 Ohms)**	
Master/Slave Option	Master
Approach Direction Mode Uni/Bi	ADL(Bi)
Lumped Impedance Adjustment Value (-9 to +9)**	
LOS Time (seconds)	ADL(16 sec)
False Shunt Detection Enable/Disable	ADL(Disable)
False Shunt Detection RX Level	ADL(80 RX)
False Shunt Detection Delay Time	ADL(0 min)
Approach Release Enable/Disable	ADL(Disable)
Approach Release RX Level	ADL(80 RX)
Approach Release Delay Time	ADL(0 min)
Constant Warning/Motion Detector Mode	(CW)
Requested Warning Time*	28 sec
Advance Preempt Time*	24 sec
AUX Recovery Delay	ADL(5 sec)
Parameter Name	
Site ID	FDL(US113)
Approach Track Circuit Enable/Disable	FDL(Enabled)
Maximum Approach Track Disable Time	FDL(2 hours)
Approach Transmitter Gain	FDL(Zero (0))
Normal, Short, and Very Short Approach	FDL(Normal)
Transmitter Check Adjustment	FDL(Zero (0))
Ballast Compensation Value	145
Phase Compensation Value	FDL(Zero (0) Degrees)
Auto RX	FDL(Enabled)
Island Type	FDL(Internal)
Island Track Circuit Enable/Disable	FDL(Enabled)
Island Frequency (KHz)	4kHz
Island Transmitter Gain	FDL(0)
Island LOS (seconds)	FDL(2 sec)
Island Fault Setting	FDL(2)

Note: ADL = Application Default Setting
FDL = Factory Default Setting
NA = Non Applicable
* = Limited Predict Mode Only
** = Field Adjustment to be made according to the PMD-4R Instruction Manual and supplements

CONFIGURATION NOTES:

1. MDR2 TO BE CONFIGURED AS CW. MDR2 WARNING TIME TO BE 54 SEC.

NEW SHEET

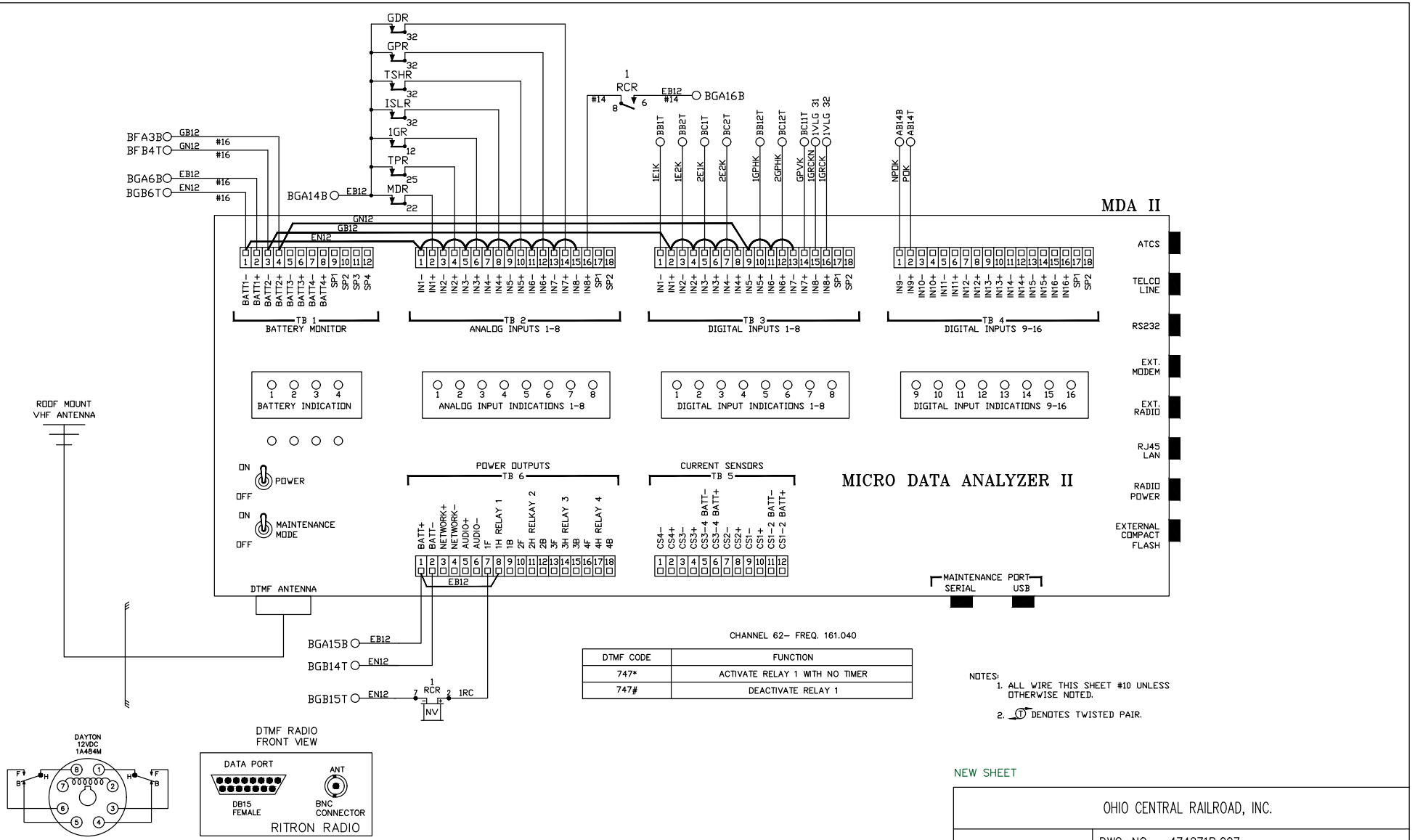
REVISION BLOCK

OHIO CENTRAL RAILROAD, INC.

DWG. NO. 474271P.006

LOCATION SR 39, DOVER ROAD
SUGARCREEK, OH
PMD-4R PROGRAM SHEET

DOT NO. 474-271P
MILE POST 0090.39



CHANNEL 62– FREQ. 161.040

DTMF CODE	FUNCTION
747*	ACTIVATE RELAY 1 WITH NO TIMER
747#	DEACTIVATE RELAY 1

NOTES:
1. ALL WIRE THIS SHEET #10 UNLESS OTHERWISE NOTED.
2. (T) DENOTES TWISTED PAIR.

NEW SHEET

REVISION BLOCK

OHIO CENTRAL RAILROAD, INC.

OHIOCENTRAL THE BUCKEYE ROUTE

DWG. NO. 474271P.007

LOCATION SR 39, DOVER ROAD
SUGARCREEK, OH
PDU RECORDER CIRCUITS

DOT NO. 474-271P
MILE POST 0090.39

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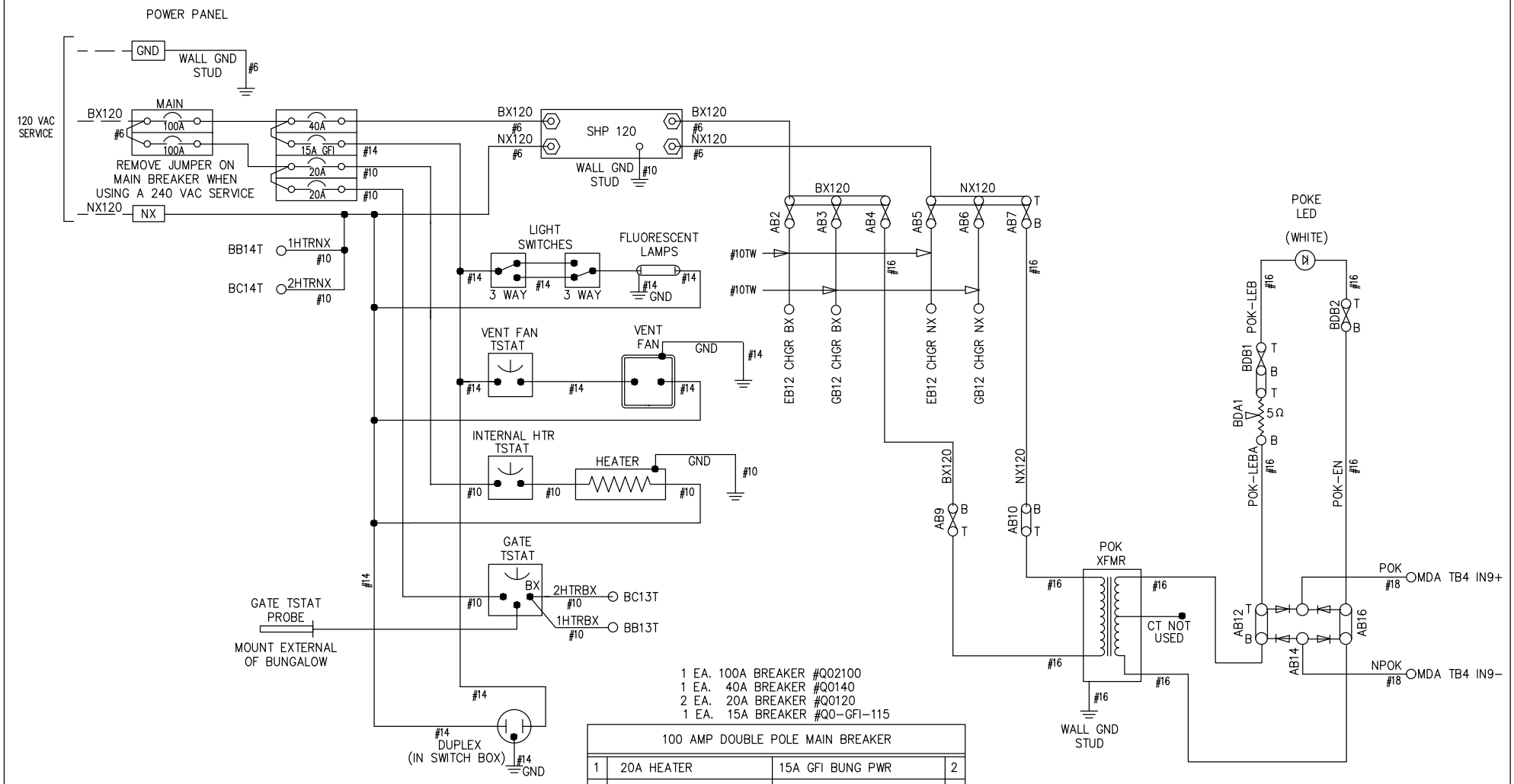
ISIS-LLC JOE COCHRAN April 5, 2018 10:49 AM Z:\ISIS CADD\Genesee & Wyoming\~Daniel\Ohio Central Railroad\SR39 (Dover Road)\474271P.007.dwg



1 EA. 100A BREAKER #Q02100
1 EA. 40A BREAKER #Q0140
2 EA. 20A BREAKER #Q0120
1 EA. 15A BREAKER #Q0-GFI-115

100 AMP DOUBLE POLE MAIN BREAKER			
1	20A HEATER	15A GFI BUNG PWR	2
3	20A GATE HEATERS	40A EQUIPMENT PWR	4
5			6
7			8
9			10
11			12

OHIO CENTRAL RAILROAD, INC.

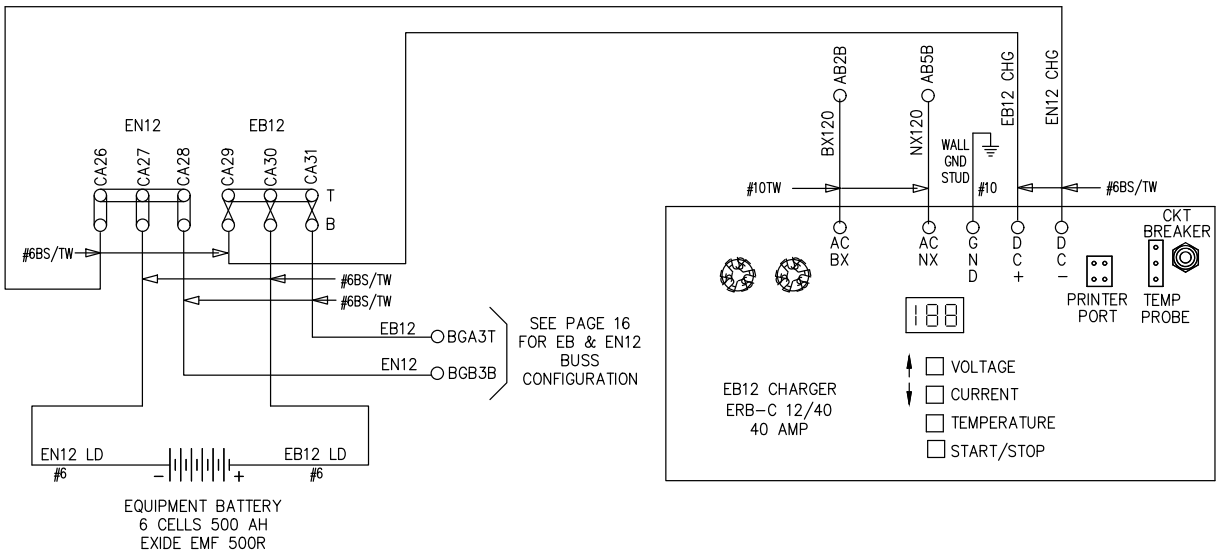
OHIOCENTRAL THE BUCKEYE ROUTE

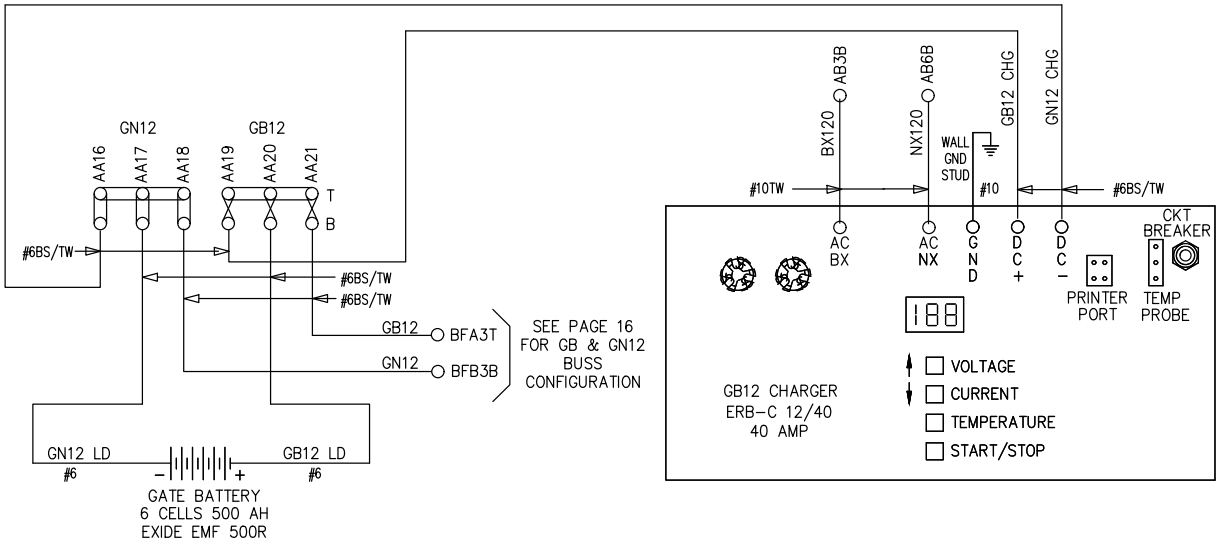
DWG. NO. 474271P.008

LOCATION SR 39, DOVER ROAD
SUGARCREEK, OH
POWER CIRCUITS

DOT NO. 474-271P
MILE POST 0090.39

REVISION BLOCK





ERBC "EB" PROGRAMMING FUNCTIONS			
NO.	ABBREVATION	DEFAULT SETTING	DESIRED SETTING INSTALLATION DATE
1	DATE CODE		
2	DAYS FROM LAST POWER FAULT	–	–
3	POWER FAULT COUNTER	–	–
4	MIN. INT. CHARGER TEMP.	–	–
5	MAX. INT. CHARGER TEMP.	–	–
6	MIN. BATTERY TEMP.	–	–
7	MAX. BATTERY TEMP.	–	–
8	CELLS IN THE BATTERY	1	6
9	FLOAT VOLTAGE PER CELL	1.00	2.21
10	TEMPERATURE COMPENSTATION	–3.0	–3.0
11	MAXIMUM CURRENT	1.0	40.0
12	ERROR CODES	0	–
13	EXT. TEMPERATURE PROBE	1	1
14	DISPLAY TIME OUT	1	1
15	TEMPERATURE SCALE	0	0
16	RESET STATISTICAL DATA	–	–
17	CLEAR ALL ERRORS	–	–
18	STOP SWITCH DISABLE	0	1
19	PRINT INTERVAL	0	0
20	LOG INTERVAL	0	0
21	DATA LOG DUMP	–	–
22	BAUD RATE	0	0
23	SAMPLE HOLD	0	0
24	SET PASSWORD	0	0

ERBC "GB" PROGRAMMING FUNCTIONS			
NO.	ABBREVATION	DEFAULT SETTING	DESIRED SETTING INSTALLATION DATE
1	DATE CODE		
2	DAYS FROM LAST POWER FAULT	–	–
3	POWER FAULT COUNTER	–	–
4	MIN. INT. CHARGER TEMP.	–	–
5	MAX. INT. CHARGER TEMP.	–	–
6	MIN. BATTERY TEMP.	–	–
7	MAX. BATTERY TEMP.	–	–
8	CELLS IN THE BATTERY	1	6
9	FLOAT VOLTAGE PER CELL	1.00	2.21
10	TEMPERATURE COMPENSTATION	–3.0	–3.0
11	MAXIMUM CURRENT	1.0	40.0
12	ERROR CODES	0	–
13	EXT. TEMPERATURE PROBE	1	1
14	DISPLAY TIME OUT	1	1
15	TEMPERATURE SCALE	0	0
16	RESET STATISTICAL DATA	–	–
17	CLEAR ALL ERRORS	–	–
18	STOP SWITCH DISABLE	0	1
19	PRINT INTERVAL	0	0
20	LOG INTERVAL	0	0
21	DATA LOG DUMP	–	–
22	BAUD RATE	0	0
23	SAMPLE HOLD	0	0
24	SET PASSWORD	0	0

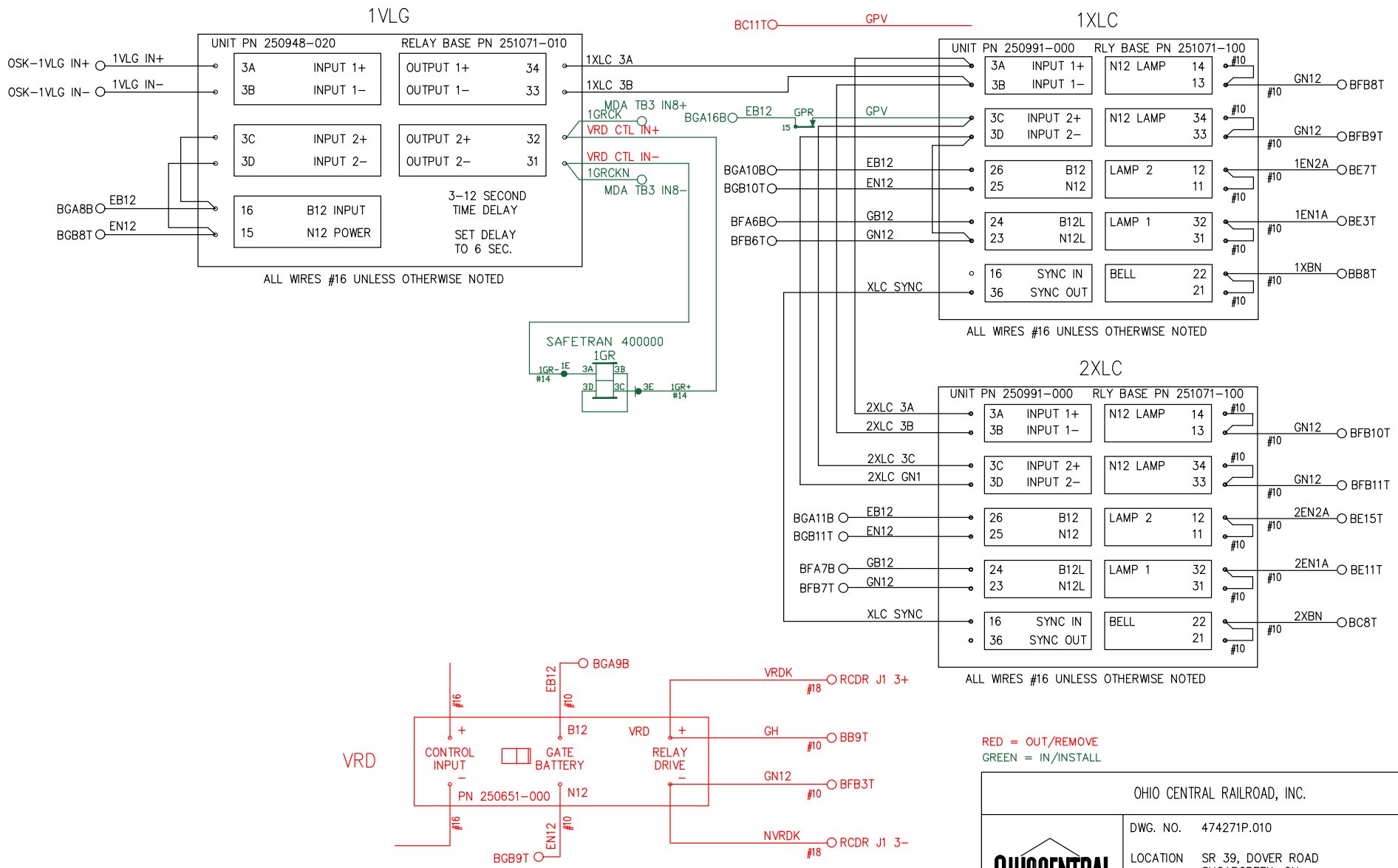
REVISION BLOCK

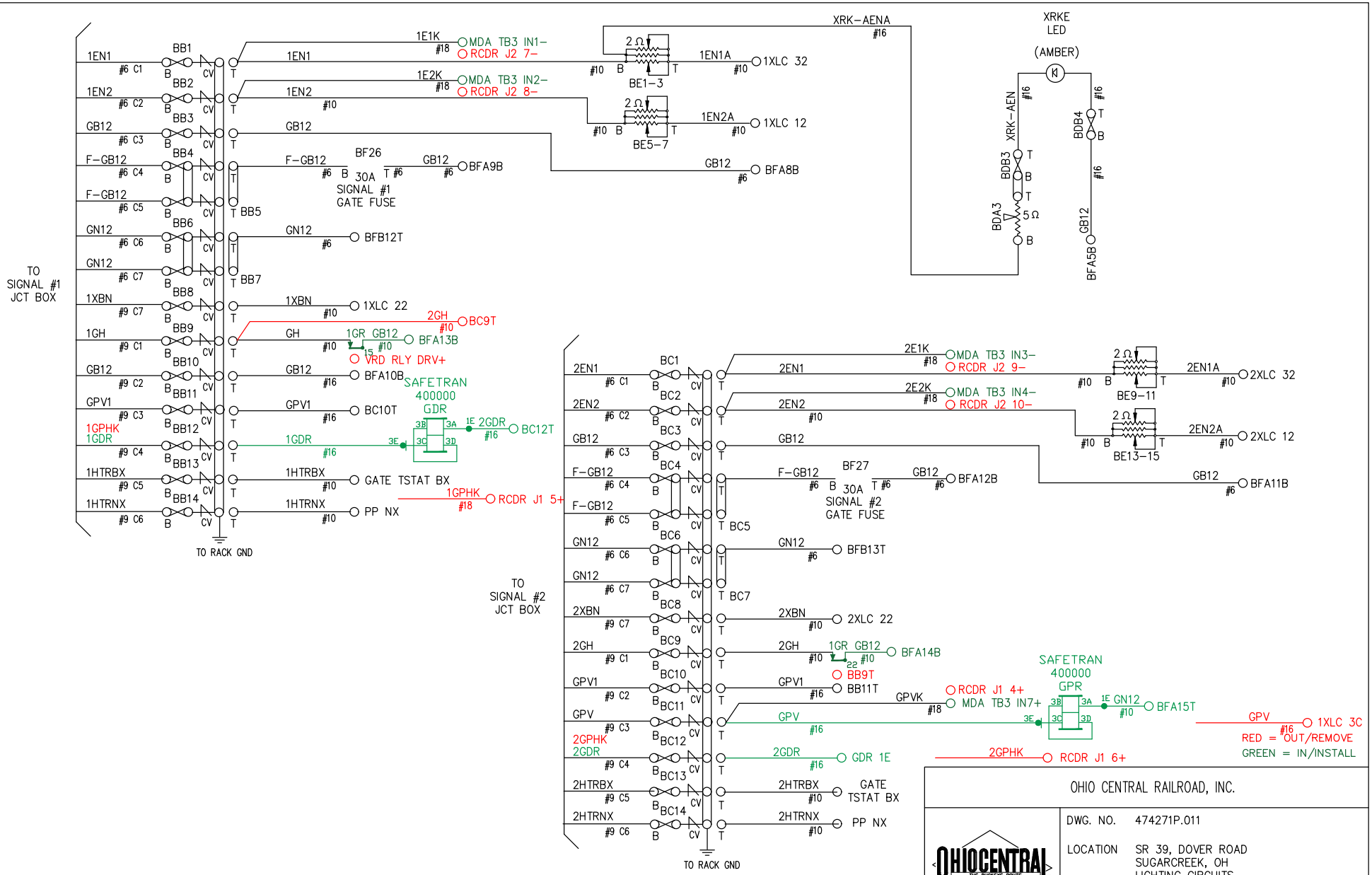
OHIO CENTRAL RAILROAD, INC.

DWG. NO. 474271P.009

LOCATION SR 39, DOVER ROAD
SUGARCREEK, OH
BATTERY CIRCUITS

DOT NO. 474–271P
MILE POST 0090.39





OHIO CENTRAL RAILROAD, INC.

OHIOCENTRAL THE BUCKEYE ROUTE

DWG. NO.	474271P.011
LOCATION	SR 39, DOVER ROAD SUGARCREEK, OH LIGHTING CIRCUITS
DOT NO. MILE POST	474-271P 0090.39

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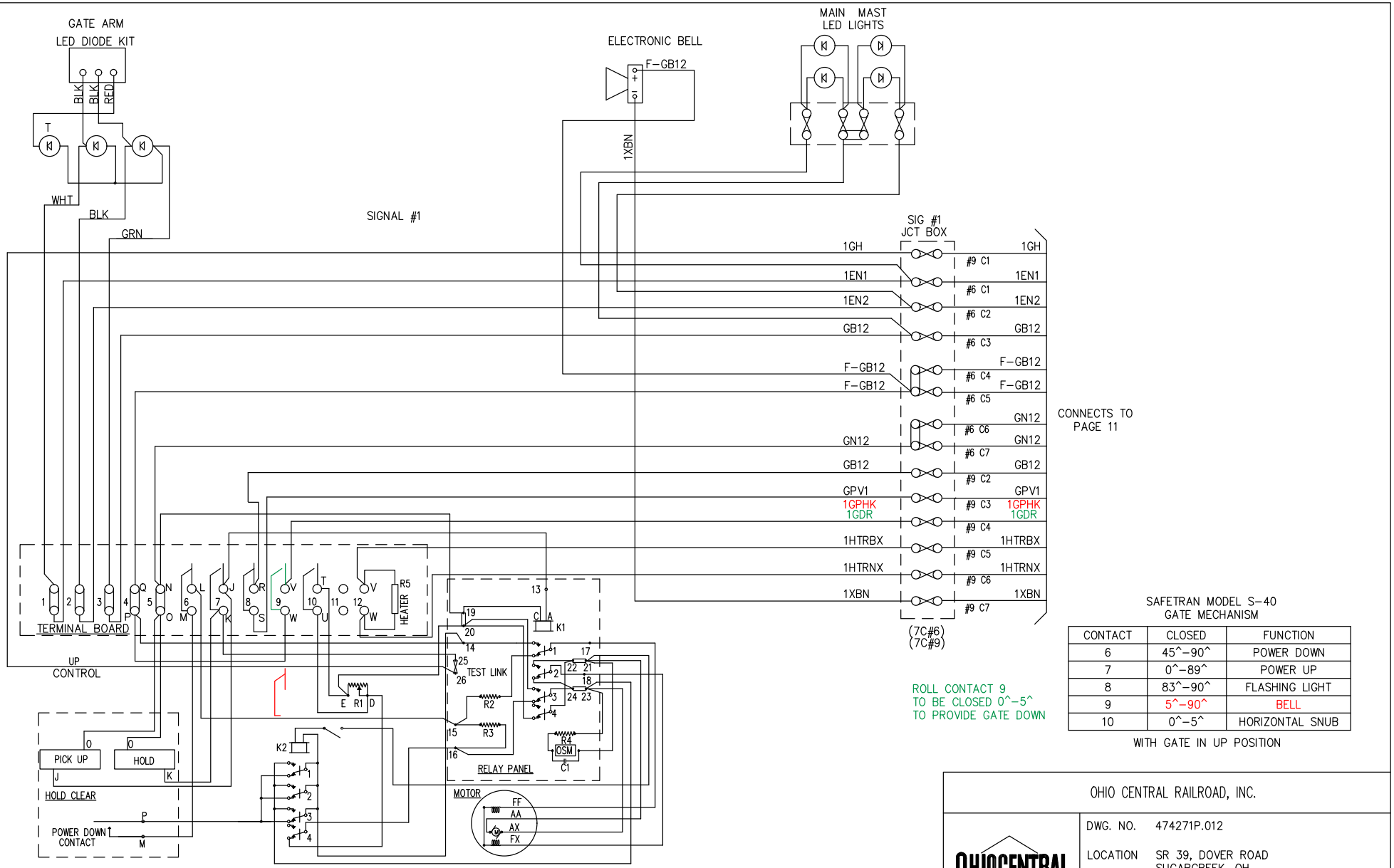
REVISION BLOCK

ISIS-LLC JDE COCHRAN April 5, 2018 10:49 AM Z:\ISIS CADD\Genesee & Wyoming\~Daniel\Ohio Central Railroad\SR39 (Dover Road)\474271P.011.dwg



SAFETRAN MODEL S-40
GATE MECHANISM

CONTACT	CLOSED	FUNCTION
6	45^-90^	POWER DOWN
7	0^-89^	POWER UP
8	83^-90^	FLASHING LIGHT
9	5^-90^	BELL
10	0^-5^	HORIZONTAL SNUB

WITH GATE IN UP POSITION

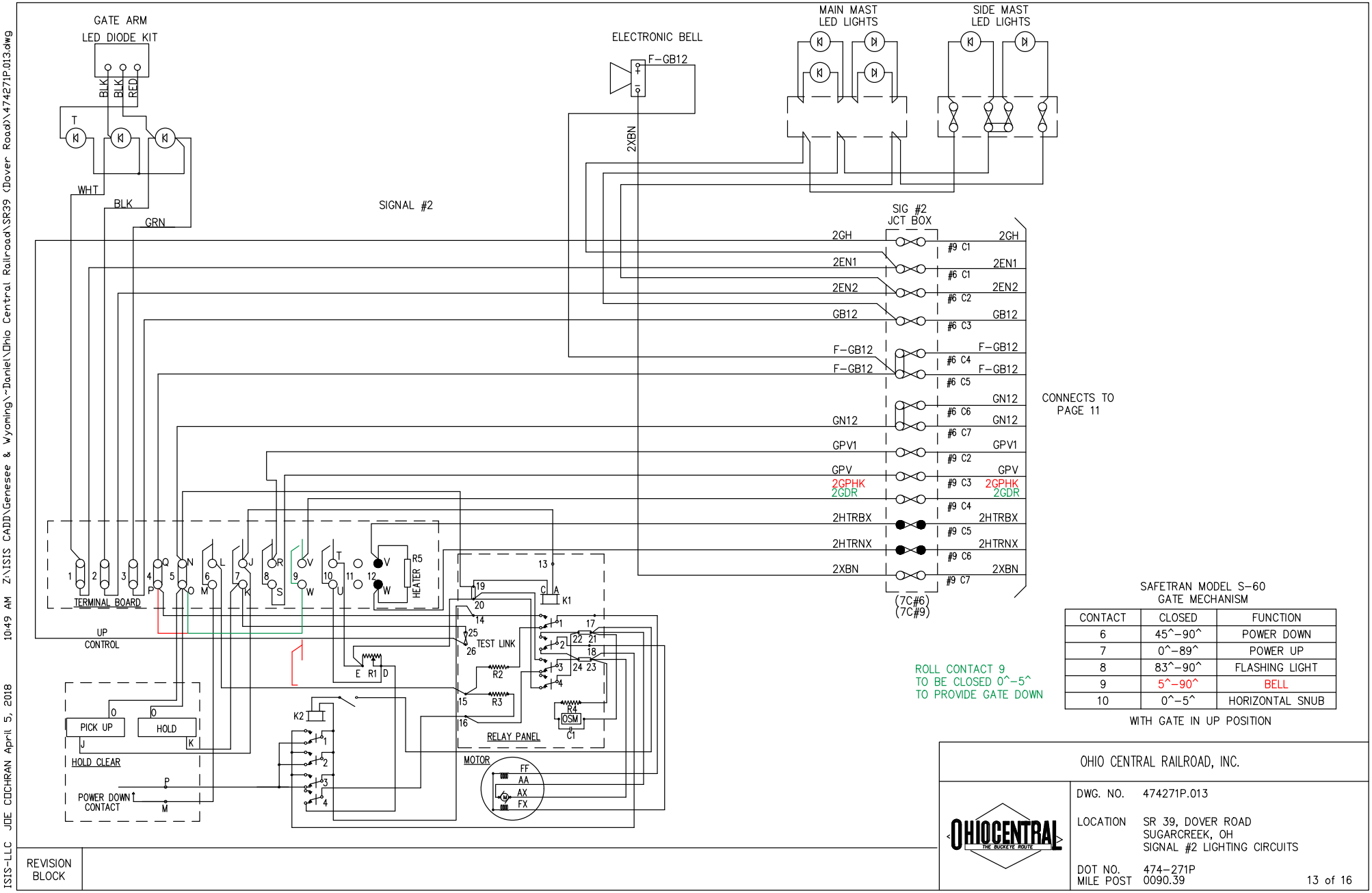
REVISION BLOCK

OHIO CENTRAL RAILROAD, INC.

DWG. NO. 474271P.012

LOCATION SR 39, DOVER ROAD
SUGARCREEK, OH
SIGNAL #1 LIGHTING CIRCUITS

DOT NO. 474-271P
MILE POST 0090.39



SAFETRAN MODEL S-60
GATE MECHANISM

CONTACT	CLOSED	FUNCTION
6	45^-90^	POWER DOWN
7	0^-89^	POWER UP
8	83^-90^	FLASHING LIGHT
9	5^-90^	BELL
10	0^-5^	HORIZONTAL SNUB

WITH GATE IN UP POSITION

REVISION BLOCK

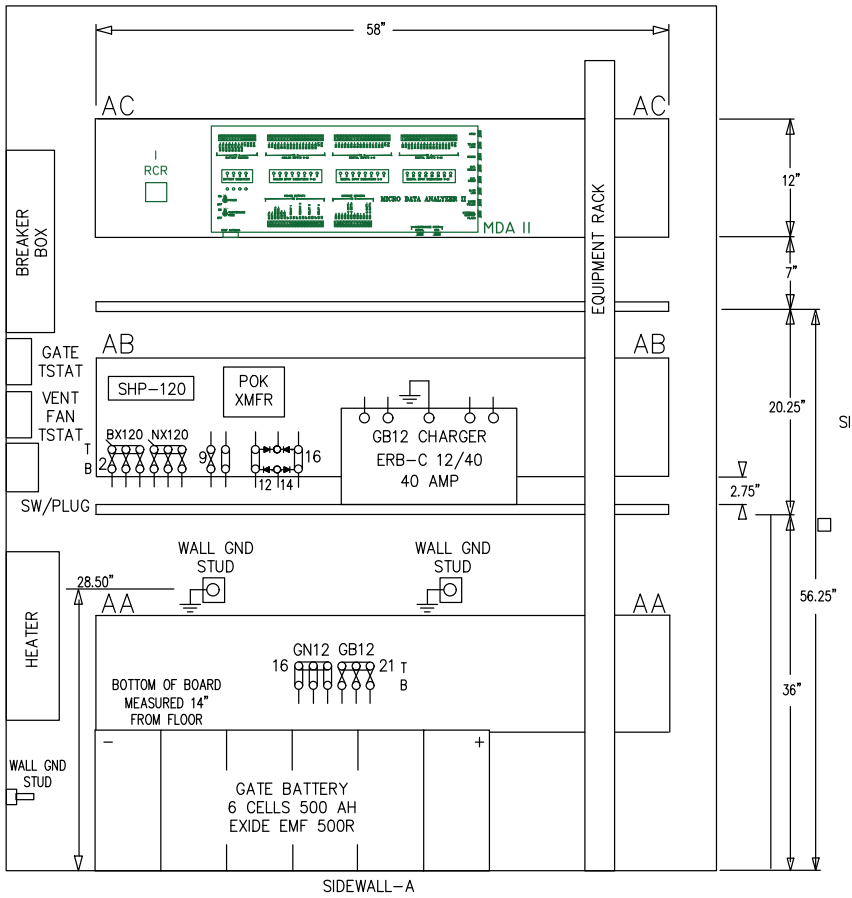
OHIO CENTRAL RAILROAD, INC.

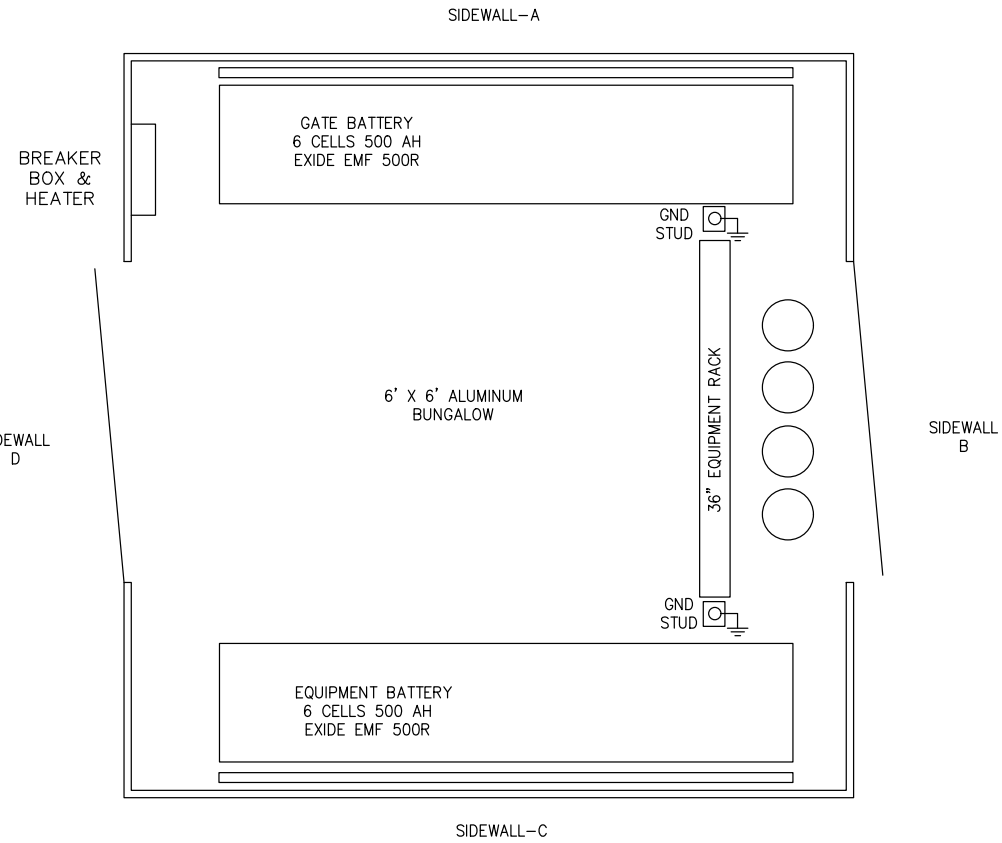
DWG. NO. 474271P.013

LOCATION SR 39, DOVER ROAD
SUGARCREEK, OH
SIGNAL #2 LIGHTING CIRCUITS

DOT NO. 474-271P
MILE POST 0090.39

PDU SAFETRAN A80251	RCDR I/O SAFETRAN A80258



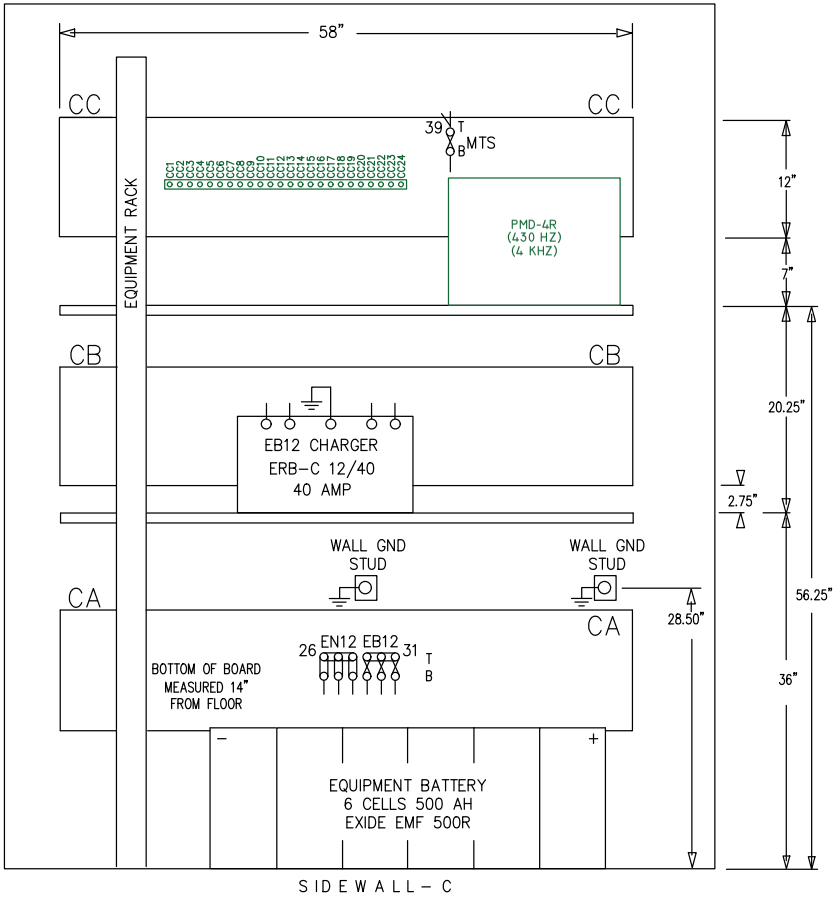


RED = OUT/REMOVE
GREEN = IN/INSTALL

REVISION BLOCK	

OHIO CENTRAL RAILROAD, INC.

DWG. NO.	474271P.014
LOCATION	SR 39, DOVER ROAD SUGARCREEK, OH SIDEWALL–A
DOT NO. MILE POST	474–271P 0090.39



SIDEWALL–C

GCP–T1
MF 430 HZ
IF 5900 HZ
MODEL 3000D2L
PN 80140–111–IPI

RED = OUT/REMOVE
GREEN = IN/INSTALL

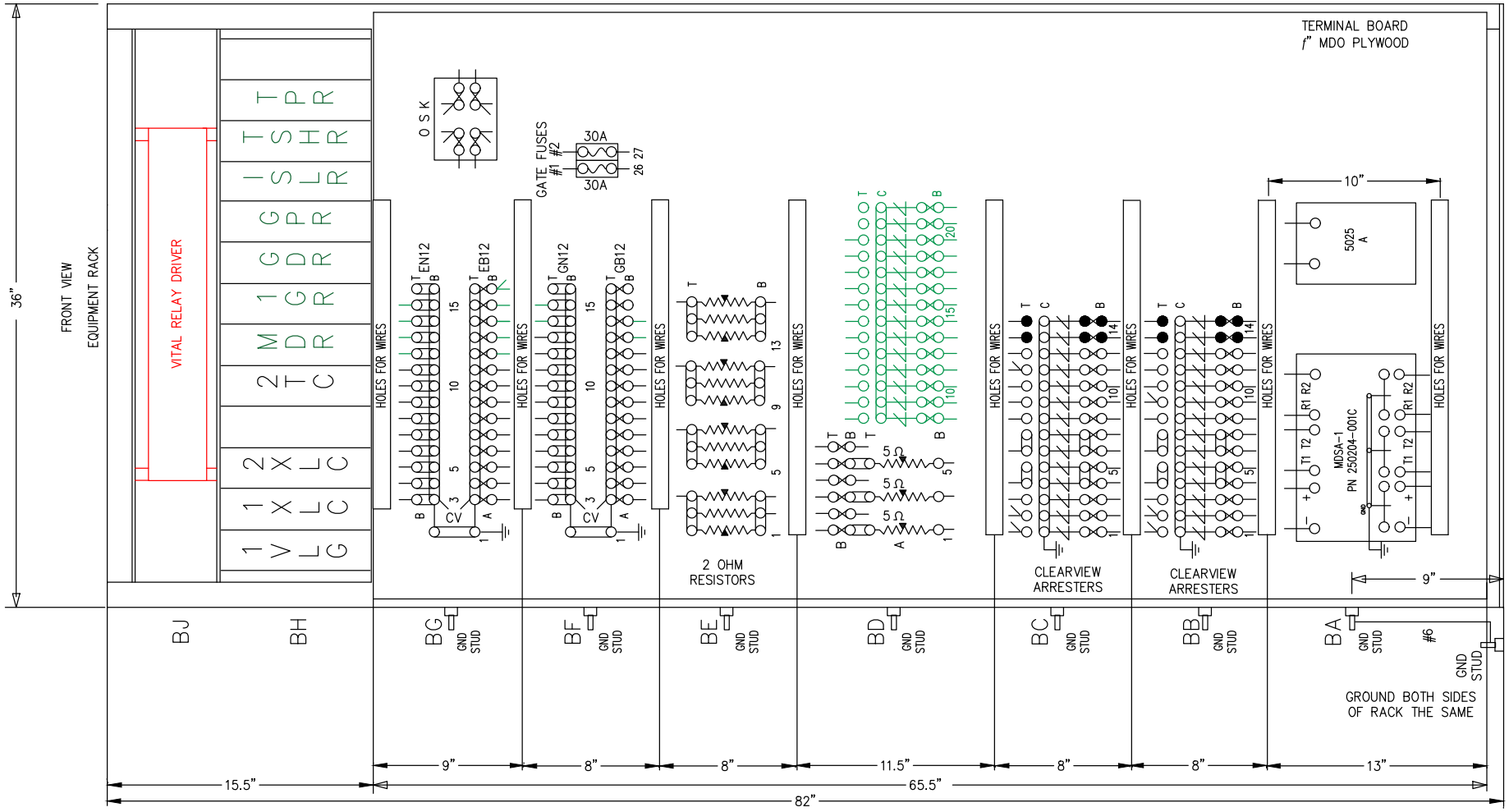
REVISION BLOCK

OHIO CENTRAL RAILROAD, INC.

DWG. NO. 474271P.015

LOCATION SR 39, DOVER ROAD
SUGARCREEK, OH
SIDEWALL–C

DOT NO. 474–271P
MILE POST 0090.39



TERMINAL LEGEND AND NOTES:

CV SAFETRAN CLEARVIEW ARRESTER, PN 022485-28X

HD SAFETRAN HEAVY DUTY ARRESTER, PN 022615-1X

1" 2-POINT TERMINAL W/FLAT LINK

2-3/8" 2-POINT TERMINAL W/FLAT LINK

1" INSULATED TEST LINK CONNECTOR

FUSE AND FUSE BLOCK

CIRCUIT BREAKER

ADJUSTABLE RESISTOR

3 POINT TERMINAL

INSULATED SHIELD & CAP ON AAR TERMINAL

RED = OUT/REMOVE

GREEN = IN/INSTALL

REVISION BLOCK

OHIO CENTRAL RAILROAD, INC.

OHIOCENTRAL THE BUCKEYE ROUTE

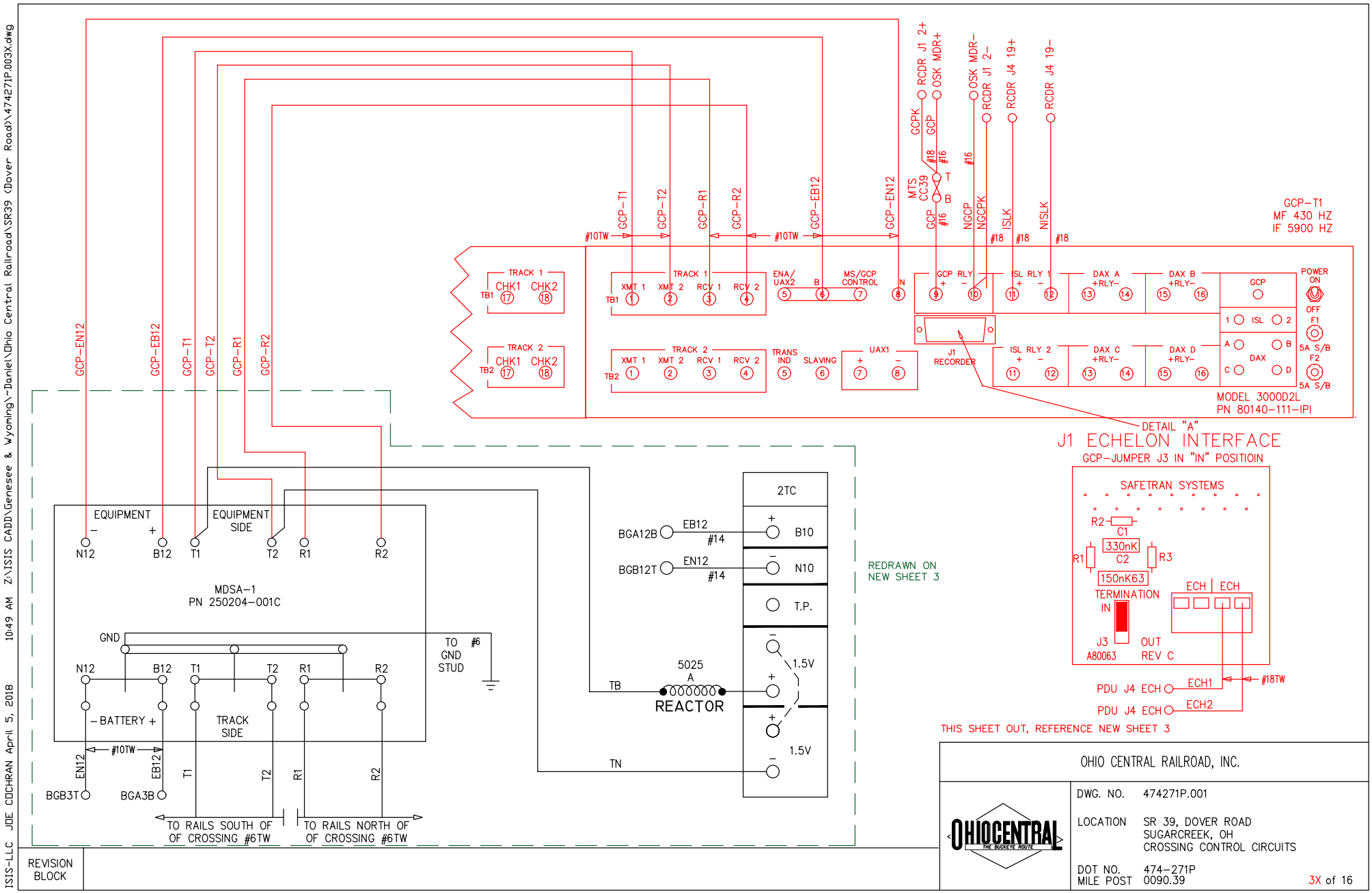
DWG. NO. 474271P.016

LOCATION SR 39, DOVER ROAD
SUGARCREEK, OH
SIDE-B RACK LAYOUT

DOT NO. 474-271P
MILE POST 0090.39

16 of 16

ISIS-LLC JDE COCHRAN April 5, 2018 10:49 AM Z:\ISIS CADD\Genesee & Wyoming\~Daniel\Ohio Central Railroad\SR39 (Dover Road)\474271P.016.dwg



REVISION BLOCK

OHIO CENTRAL RAILROAD, INC.

OHIOCENTRAL THE BUCKEYE ROUTE

DWG. NO. 474271P.001

LOCATION SR 39, DOVER ROAD
SUGARCREEK, OH
CROSSING CONTROL CIRCUITS

DOT NO. 474-271P
MILE POST 0090.39

3X of 16

ISIS-LLC JOE COCHRAN April 5, 2018 10:49 AM Z:\ISIS CADD\Genesee & Wyoming\-Daniel\Ohio Central Railroad\SR39 (Dover Road)\474271P.003X.dwg

3000 GCP APPLICATION HISTORY CARD

Equipment: 3000D2L
Unit/Serial No.: _____ Crossing No.: 474271P Crossing Name: SR 39, DOVER RD
City: SUGARCREEK State: OHIO
Weather Conditions: _____ Island Frequency T1: 5900 HZ T2: _____ HZ

PROGRAMMING HISTORY

	Initial Programmed Value Date:	Program Change Date:	Program Change Date:
NUMBER OF TRACKS (Number of transceiver Modules, 1 of 2)	1 ☒ 2 ☐	1 ☐ 2 ☐	1 ☐ 2 ☐
FREQUENCY (MS/GCP)	430 Hz	Hz	Hz
UNIDIRECTIONAL/BIDIRECTIONAL	T1: UNI ☐ BI ☒	UNI ☐ BI ☐	UNI ☐ BI ☐
	T2: UNI ☐ BI ☐	UNI ☐ BI ☐	UNI ☐ BI ☐
XMIT LEVEL	T1: MAX ☐ MED ☒	MAX ☐ MED ☐	MAX ☐ MED ☐
	T2: MAX ☐ MED ☐	MAX ☐ MED ☐	MAX ☐ MED ☐
PREDICTOR/MOTION SENSOR	T1: PRED ☒ MS ☐	PRED ☐ MS ☐	PRED ☐ MS ☐
	T2: PRED ☐ MS ☐	PRED ☐ MS ☐	PRED ☐ MS ☐
WARNING TIME SELECTED	T1: 25 Sec.	Sec.	Sec.
	T2: N/A Sec.	Sec.	Sec.
APPROACH DISTANCE → SELECTED	T1: 1100 Ft.	Ft.	Ft.
	T2: N/A Ft.	Ft.	Ft.
→ COMPUTED	T1: Ft.	Ft.	Ft.
	T2: N/A Ft.	Ft.	Ft.
UAX1 PICKUP DELAY (UAX)(0 = OFF)	N/A Sec.	Sec.	Sec.
ENA/UAX2 DELAY (0 = ENA)	N/A Sec.	Sec.	Sec.
ISLAND DISTANCE(Between transmit & receive track wire connections)	T1: 140 Ft.	Ft.	Ft.
	T2: N/A Ft.	Ft.	Ft.
NUMBER OF DAX'S (For 3000ND and 3000ND2 units, set this item to 0)	0☒ 1☐ 2☐ 3☐ 4☐ 5☐ 6☐ 7☐ 8☐	0☐ 1☐ 2☐ 3☐ 4☐ 5☐ 6☐ 7☐ 8☐	0☐ 1☐ 2☐ 3☐ 4☐ 5☐ 6☐ 7☐ 8☐
DAX A TRACK ASSIGNMENT	T1: ☐ T2: ☐	T1: ☐ T2: ☐	T1: ☐ T2: ☐
DAX A DISTANCE (0 = Preempt)	Ft.	Ft.	Ft.
DAX A WARNING TIME	Sec.	Sec.	Sec.
DAX B TRACK ASSIGNMENT	T1: ☐ T2: ☐	T1: ☐ T2: ☐	T1: ☐ T2: ☐
DAX B DISTANCE (0 = Preempt)	Ft.	Ft.	Ft.
DAX B WARNING TIME	Sec.	Sec.	Sec.
DAX C TRACK ASSIGNMENT	T1: ☐ T2: ☐	T1: ☐ T2: ☐	T1: ☐ T2: ☐
DAX C DISTANCE (0 = Preempt)	Ft.	Ft.	Ft.
DAX C WARNING TIME	Sec.	Sec.	Sec.
DAX D TRACK ASSIGNMENT	T1: ☐ T2: ☐	T1: ☐ T2: ☐	T1: ☐ T2: ☐
DAX D DISTANCE (0 = Preempt)	Ft.	Ft.	Ft.
DAX D WARNING TIME	Sec.	Sec.	Sec.
* DAX E TRACK ASSIGNMENT	T1: ☐ T2: ☐	T1: ☐ T2: ☐	T1: ☐ T2: ☐
* DAX E DISTANCE (0 = Preempt)	Ft.	Ft.	Ft.
* DAX E WARNING TIME	Sec.	Sec.	Sec.
* DAX F TRACK ASSIGNMENT	T1: ☐ T2: ☐	T1: ☐ T2: ☐	T1: ☐ T2: ☐
* DAX F DISTANCE (0 = Preempt)	Ft.	Ft.	Ft.
* DAX F WARNING TIME	Sec.	Sec.	Sec.
* DAX G TRACK ASSIGNMENT	T1: ☐ T2: ☐	T1: ☐ T2: ☐	T1: ☐ T2: ☐
* DAX G DISTANCE (0 = Preempt)	Ft.	Ft.	Ft.
* DAX G WARNING TIME	Sec.	Sec.	Sec.
* DAX H TRACK ASSIGNMENT	T1: ☐ T2: ☐	T1: ☐ T2: ☐	T1: ☐ T2: ☐
* DAX H DISTANCE (0 = Preempt)	Ft.	Ft.	Ft.
* DAX H WARNING TIME	Sec.	Sec.	Sec.

PROGRAMMING HISTORY	Initial Programmed Value Date:	Program Change Date:	Program Change Date:
SLAVING MASTER/SLAVE	MASTER ☒ SLAVE ☐	MASTER ☐ SLAVE ☐	MASTER ☐ SLAVE ☐
PASSWORD ENABLED	DISABLED ☒	DISABLED ☐	DISABLED ☐
	ENABLED ☐	ENABLED ☐	ENABLED ☐
RECORDER INSTALLED	NOT INSTALLED ☐	NOT INSTALLED ☐	NOT INSTALLED ☐
	INSTALLED ☒	INSTALLED ☐	INSTALLED ☐
RS-232-C BAUD RATE	9600 bps	bps	bps
RS-232-C DATA BITS	7 ☐ 8 ☒	7 ☐ 8 ☐	7 ☐ 8 ☐
RS-232-C STOP BITS	1 ☒ 2 ☐	1 ☐ 2 ☐	1 ☐ 2 ☐
RS-232-C PARITY	NONE ☒ MARK ☐	NONE ☐ MARK ☐	NONE ☐ MARK ☐
	ODD ☐ SPACE ☐	ODD ☐ SPACE ☐	ODD ☐ SPACE ☐
	EVEN ☐	EVEN ☐	EVEN ☐
DATE (e.g., MON 13 MAY 1991)			
TIME (e.g., 06:25:43 PM)			
DAYLIGHT SAVINGS	ON ☒ OFF ☐	ON ☐ OFF ☐	ON ☐ OFF ☐

EXPANDED PROGRAMMING HISTORY (Function Mode)	Initial Programmed Value Date:	Program Change Date:	Program Change Date:
SWITCH TO MS (Enter EZ value)	T1: 10 EZ	T1: EZ	T1: EZ
	T2: NA EZ	T2: EZ	T2: EZ
TRANSFER DELY MS TO GCP (0=OFF)	T1: 0 Sec.	T1: Sec.	T1: Sec.
	T2: NA Sec.	T2: Sec.	T2: Sec.
PRIME PREDICTION OFFSET (0=OFF)	T1: 0 Ft.	T1: Ft.	T1: Ft.
	T2: NA Ft.	T2: Ft.	T2: Ft.
PICKUP DELAY PRIME	15 Sec.	Sec.	Sec.
PICKUP DELAY DAX A	0 Sec.	Sec.	Sec.
PICKUP DELAY DAX B	0 Sec.	Sec.	Sec.
PICKUP DELAY DAX C	0 Sec.	Sec.	Sec.
PICKUP DELAY DAX D	0 Sec.	Sec.	Sec.
* PICKUP DELAY DAX E	0 Sec.	Sec.	Sec.
* PICKUP DELAY DAX F	0 Sec.	Sec.	Sec.
* PICKUP DELAY DAX G	0 Sec.	Sec.	Sec.
* PICKUP DELAY DAX H	0 Sec.	Sec.	Sec.
COMPENSATION VALUE	T1: SYS COMP	T1:	T1:
	T2: SYS COMP	T2:	T2:
# ENHANCED DETECTION (ED)	T1: ON ☒ OFF ☐	T1: ON ☐ OFF ☐	T1: ON ☐ OFF ☐
	T2: ON ☐ OFF ☒	T2: ON ☐ OFF ☐	T2: ON ☐ OFF ☐
# BACK TO BACK T1 AND T2 (When ED is on)	NO ☒ YES ☐	NO ☐ YES ☐	NO ☐ YES ☐
# STATION STOP TIMER (When ED is on)	T1: 0 Sec.	T1: Sec.	T1: Sec.
	T2: 0 Sec.	T2: Sec.	T2: Sec.
NUMBER OF TRACK WIRES	T1: 4 ☒ 6 ☐	T1: 4 ☐ 6 ☐	T1: 4 ☐ 6 ☐
	T2: 4 ☐ 6 ☐	T2: 4 ☐ 6 ☐	T2: 4 ☐ 6 ☐
# LOW EX ADJUSTMENT	T1: 0	T1:	T1:
	T2: 0	T2:	T2:

MODULES 11 12 13 14 15 16 17 18 19
80211-IPI 5900 HZ
VACANT
80012-TRANSCEIVER
VACANT
80013-RELAY DRIVE
80214-PROCESSOR
80255-REC. INTERFACE
VACANT
VACANT

MODULES 1 2 3 4 5 6 7 8 9
80211-IPI 5900 HZ
VACANT
80012-TRANSCEIVER
VACANT
80013-RELAY DRIVE
80214-PROCESSOR
80255-REC. INTERFACE
VACANT
VACANT

GCP3000D2L

GCP 3000D2L / PART NO. 80140-111
SINGLE SYSTEM / DUAL BASIC
(REDUNDANT) FOR CONTROL OF
ONE TRACK BI-DIRECTIONAL WITH
ONE HIGH FREQUENCY ISLAND AND
KEYBOARD/DISPLAY. NO DAX MODULE

THIS SHEET OUT

* Applicable to 3008 and 3008D2 8-DAX GCP's only.
* Applicable only to 3000 GCP's equipped with 80044 processors.

REVISION BLOCK

OHIO CENTRAL RAILROAD, INC.

OHIOCENTRAL THE BUCKEYE ROUTE

DWG. NO. 474271P.001
LOCATION SR 39, DOVER ROAD
SUGARCREEK, OH
GCP SETUP
DOT NO. 474-271P
MILE POST 0090.39

5X of 16

ISIS-LLC JOE COCHRAN April 5, 2018 10:49 AM Z:\ISIS CADD\Genesee & Wyoming\~Daniel\Ohio Central Railroad\SR39 (Dover Road)\474271P.006X.dwg

1	POK	9	2E1K	17		25	
2	GCPK	10	2E2K	18		26	LAMP ALRM
3	VRDK	11		19	ISLK	27	RING ALRM
4	GPVK	12		20	GB ALARM	28	GT DN ALRM
5	1GPHK	13	APRK	21	EB ALARM	29	GT UP ALRM
6	2GPHK	14		22	TEMP ALRM	30	AC PWR OFF
7	1E1K	15		23	LOD1 ALRM	31	
8	1E2K	16		24	LOD2 ALRM	32	HEALTH

DISPLAY

EVENT RECORDER
PROCESSOR/DISPLAY UNIT
A80251

NEXT PREVIOUS EXECUTE

RADIO MODEM J1
RADIO MODEM J2
PRINT/DIAG J3

J4 ECH N B

#18TW #18TW #16TW

ECH2 ECH1 ECH1 ECH2 EN12 EB12

GCP J1 ECH INTERFACE
GCP J1 ECH INTERFACE
RCDR J6 ECH
RCDR J6 ECH
BGB5T
BGA5B

SEAR PROGRAM: XING

RCDR PDU

THIS SHEET OUT

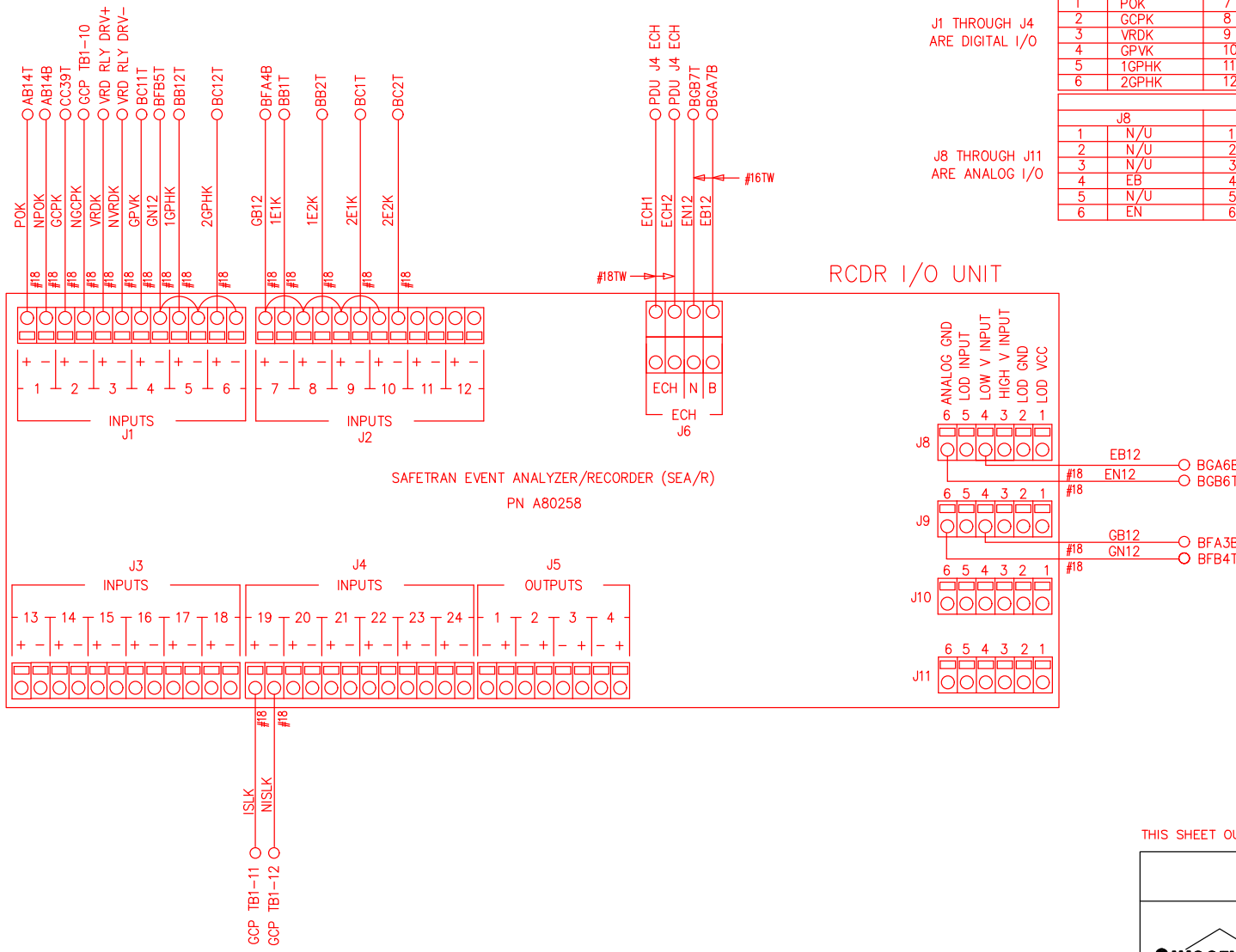
OHIO CENTRAL RAILROAD, INC.

DWG. NO. 474271P.001

LOCATION SR 39, DOVER ROAD
SUGARCREEK, OH
PDU RECORDER CIRCUITS

DOT NO. 474-271P
MILE POST 0090.39

REVISION BLOCK



J1 THROUGH J4 ARE DIGITAL I/O

RECORDER I/O FUNCTIONS							
J1		J2		J3		J4	
1	POK	7	1E1K	13	N/U	19	ISLK
2	GCPK	8	1E2K	14	N/U	20	N/U
3	VRDK	9	2E1K	15	N/U	21	N/U
4	GPVK	10	2E2K	16	N/U	22	N/U
5	1GPHK	11	N/U	17	N/U	23	N/U
6	2GPHK	12	N/U	18	N/U	24	N/U

J8 THROUGH J11 ARE ANALOG I/O

RECORDER I/O FUNCTIONS							
J8		J9		J10		J11	
1	N/U	1	N/U	1	N/U	1	N/U
2	N/U	2	N/U	2	N/U	2	N/U
3	N/U	3	N/U	3	N/U	3	N/U
4	EB	4	GB	4	N/U	4	N/U
5	N/U	5	N/U	5	N/U	5	N/U
6	EN	6	GN	6	N/U	6	N/U

THIS SHEET OUT

OHIO CENTRAL RAILROAD, INC.

DWG. NO. 474271P.001

LOCATION SR 39, DOVER ROAD
SUGARCREEK, OH
SEA/R RECORDER CIRCUITS

DOT NO. 474-271P
MILE POST 0090.39

7X of 16

REVISION BLOCK

ISIS-LLC JOE COCHRAN April 5, 2018 10:50 AM Z:\ISIS CADD\Genesee & Wyoming\~Daniel\Ohio Central Railroad\SR39 (Dover Road)\474271P.008X.dwg

OHIO RAIL DEVELOPMENT COMMISSION

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

John R. Kasich, Governor • Mark Policinski, ORDC Chairman

December 15, 2017

Mr. Dan Birrell
Ohio Central Railroad (OHCR)
Supervisor- Signals & Technical Maintenance
51720 CR 16
West Lafayette, OH 43845

RE: Tuscarawas County, Village of Sugarcreek, SR 39, Dover Road, DOT#474271P, PID# 103224

Dear Mr. Birrell:

A diagnostic review was held at the above grade crossing on April 21, 2016. The crossing has been recommended for modifications to receive improvements for the purposes of interconnecting with a new traffic signal being installed by the Village of Sugarcreek.

The grade crossing warning devices will be interconnected with traffic signals at the intersection of SR 39/Dover Rd and Edelweiss Drive. The amount of advance preemption time and interface functions required is provided on the attached Railroad Configuration and Timing Requirements form. Please contact me if you have any questions regarding this requirement.

OHCR is authorized to proceed with the site plans and cost estimates or bid package for this 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. Please note that the railroad must provide ORDC with a plan stamped by a professional engineer licensed in the State of Ohio prior to acceptance and close out of the project.

The diagnostic review form is attached. Please note any recommendations (page 5), if any, made by the team with regard to requirements for this location. Any minor roadway work necessary for MUTCD compliance should be incorporated into the PE and such costs will flow through the railroad reimbursement process.

The Project Manager for this project is James Tucker. James can be reached at (614) 398-6897, or james.tucker@dot.ohio.gov, if you have any questions.

Sincerely,

Project Manager

C: Randall Schumacher, Supervisor, Rail Division, PUCO
Jill Henry, Rail Division Specialist, PUCO
Susan Arduini, ORDC

ORDC (file)

Attachment: 1 (diagnostic review form)

OHIO DEPARTMENT OF TRANSPORTATION

OHIO RAIL DEVELOPMENT COMMISSION

HIGHWAY-RAIL GRADE CROSSING WARNING SYSTEM INTERCONNECTION

RAILROAD CONFIGURATION AND TIMING REQUIREMENTS

Railroad: OHCR Date: 11/16/2017

DOT: 474271P Crossing Name: TUS SR 39/Dover Road

Issued By: Cathy Stout, ORDC

This crossing warning system is proposed to be interconnected with an adjacent highway traffic control signal. In some cases, the warning system may be interconnected with two highway traffic control signals, usually one on each side of the grade crossing. The #2 interconnection circuits are only required if indicated below.

The purpose of this document is to advise the railroad of the number of interconnection circuits required and the type and timing requirements of each circuit. The railroad should refer to the OHIO DOT HIGHWAY-RAIL GRADE CROSSING WARNING SYSTEM INTERCONNECTION STANDARD Part 5 for details concerning the requirements of the interface to be provided by the railroad.

TYPE OF INTERCONNECTION	INTERCONNECTION #1
ADVANCED	X
SIMULTANEOUS	
NOT REQUIRED	
ADVANCED PREEMPTION TIME PER AREMA 3.3.10	20
Interface Functions (804-4.2):	
Advanced Preemption Circuit with Supervision	Required
Simultaneous Preemption Circuit	Required
Island Occupied	Optional
Gate Down Circuit	Required
Gate Up Circuit	Optional
Traffic Signal Health (Agency will make this circuit available to railroad)	Optional

OHIO RAIL DEVELOPMENT COMMISSION

Ohio Rail Development Commission
Mail Stop 3140, 1980 W. Broad Street,
Columbus, OH 43223

Diagnostic Review Team Survey

Reason for Survey: (e.g. formula, accident, constituent, etc.) Preemption

Date: 4/21/2016

Location Data

Street or Road Name:	Dover Road				
Route/Road Number (i.e. Twp., Co., SR or US)	SR 39-2.04			US DOT No.:	474271P
County: TUS	Township:	City: (In or Near)	Village of Sugar Creek		
Railroad Name: Ohio Central Railroad	Railroad Division: Western	Branch/Line Name: Zanesville Dist.			
Nearest RR Timetable Station: Sugar Creek		RR Milepost: 90.39			

On-Site Review Team

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

1. Cathy Stout ORDC 614 644 0313 Catherine.Stout @ dot. ohio. gov
2. Tim Oster CTC 817 713 5899 toster@ctcinc.com
3. Susan Kirkland ORDC 614.644.0286 SUSAN.KIRKLAND@DOT.~~STATE.OH.US~~ ohio.gov
4. Bill Theiss Village Administrator 330.852 4112 Bill Theiss @ Villageofsugarcreek.com
5. Kevin Westbrooks AECOM 330-800-2761 kevin.westbrooks@aecom.com
6. Clayton Weller ~~Clerk~~ Mayor 330-852-4112 Claytonweller@Villageofsugarcreek.com
7. Matt Miller Village Street Supv. 330-260-6714 mattmiller@Villageofsugarcreek.com
8. DAN BIRRELL OHCR 740 2954122 dbirrell@bcwrr.com
9. SHAWN ZURFLH 614-466-1150

RICK CAMPBELL 817-564-1806 rcampbell@ctcinc.com

Existing Traffic Control Devices

Type of Warning Devices	Installed?		Quantity/Comments
Advance Warning Signs (condition?)	☑ Yes	☐ No	
'Stop' Signs	☐ Yes	☑ No	
'Stop Ahead' Signs	☐ Yes	☑ No	
Pavement Markings (condition?)	☑ Yes	☐ No	need to be refreshed
Crossbucks	☑ Yes	☐ No	
Number of Tracks Signs	☐ Yes	☑ No	
Inventory Tags	☑ Yes	☐ No	
Interconnected Highway Traffic Signal	☐ Yes	☑ No	
Mast-Mounted Flashing Lights	☑ Yes	☐ No	
Cantilever Flashing Lights	☐ Yes	☑ No	Number: Length:
Side Lights	☑ Yes	☐ No	
Automatic Gates	☑ Yes	☐ No	Number: Length:
Bells	☑ Yes	☐ No	Number:
Sidewalk Gate Arms	☐ Yes	☑ No	
'No Turn' Signs	☐ Yes	☑ No	
Illumination	☑ Yes	☐ No	
Is crossing flagged by train crew?	☐ Yes	☐ No	
Other	☑ Yes	☐ No	ENS

Safety Data (Obtain crash reports, if possible, prior to review)

	Initial Information (from database)	Revised
Number & dates of crashes in previous 5 years	0 (10/7/02)	
Hazard Ranking	1372 Date Run: 2/24/2016	

Railroad Data

Railroad Characteristics	Initial Information (from database)	Revised
Total trains per day	6	4
< 1 per day		
Day thru trains	4	2
Night thru trains	2	
Daytime switching movements		2
Nighttime switching movements		
Total number of tracks	1 ✓	
Number of main tracks	1	
Number of other tracks		
Maximum train speed	30	25
Typical train speed	30	25
Amtrak		

If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table 1) ☐ Yes ☐ No N/A

If multiple tracks, can two trains occupy crossing at the same time? ☐ Yes ☐ No

Can one train block the motorists' view of another train at crossing? ☐ Yes (Explain below) ☐ No

Can one or more tracks be eliminated through the crossing? ☐ Yes ☐ No

Are there other track(s) crossing this same roadway within 100 ft of this crossing? ☐ Yes ☒ 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: Village of Sugar Creek

Roadway Characteristics	Initial Information (from database)	Revised
Average daily traffic	9128 (2010) ✓	
Highway paved	X Yes ☐ No	☐ Yes ☐ No

Roadway Surface: ☒ Blacktop ☐ Gravel ☐ Concrete ☐ Other _____

Roadway width: 26 ft.

Number of highway lanes	2	
Urban or Rural	Rural	
Vehicle Speed: _MPH 35		

School Bus Operation: ☐ No ☒ Yes 12 Amount

Hazardous Materials Trucks: ☐ No ☒ Yes .09 Amount

Shoulders: ☐ No ☒ Yes

Is the shoulder surfaced? ☒ No ☐ Yes

Is 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) _____

Quadrant _____ Curb and Gutter:	Quadrant _____ Curb and Gutter:
☐ Functional (Curb height = 4" or more)	☐ Functional (Curb height = 4" or more)
☐ Non-functional (Curb height = Less than 4")	☐ Non-functional (Curb height = Less than 4")
☑ None	☑ None

Pedestrians: ☐ No ☑ Yes

Is sidewalk present? ☑ No ☐ Yes

Is there a nearby intersection that could cause queuing over the crossing? ☐ No ☑ Yes

If yes,

Distance _____

Is this intersection signalized? ☑ No ☐ Yes

Are the signals currently interconnected with the existing crossing warning devices? ☐ No ☐ Yes

Is there a 'Do not Stop on Track' sign? ☑ No ☐ Yes

Is a roadway improvement project (e.g. widening, turn lanes, nearby new or upgraded traffic signal, sidewalk) planned at or near this location in the foreseeable future? ☐ No ☑ Yes

If yes,

Improvement type traffic signal + widening Lead Agency Village Sugar Creek - Timeline/completion -

Is it the consensus of the Diagnostic Review Team that this is a potential closure project: ☑ No ☐ Yes

Explain reasons:

Type of Development

☐ Open Space	☐ Institutional	Location of nearby schools:
☑ Industrial	☐ Commercial	
☑ Residential		

Utility Information

Is commercial power available? ☐ No ☑ Yes

Utility Provider (Company Name) AEP Phone Number _____

Nearest Available Power Source _____

What other utilities are present? (add locations to sketch)
☐ Gas ☐ Cable ☐ Telephone ☐ Fiber Optic Cable
☐ Petroleum ☐ Water ☐ Sanitary Sewer
☐ Other _____

Is(are) there potential utility conflict(s) ☑ Yes ☐ No ☐ Unknown

Comments: Sewer gas.

Potential Red Flags / Project Challenges
Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known): traffic signal project
Crossing Consolidation or Closure:
Real Estate or ROW:
Culverts / Drainage / Ballast Conditions:
Roadway and/or Sidewalks:
Circuitry (e.g. reaches out to other crossings, specific needs, etc.):
Environmental:
Other:

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)	

Comments: traffic signal preemption Subject to progression of highway project. Junction box on bungalow. Pavement markings refreshed by Village; Village consider AWS on Edelweiss.

☑ Install/upgrade traffic signal preemption	
☐ No improvements needed	

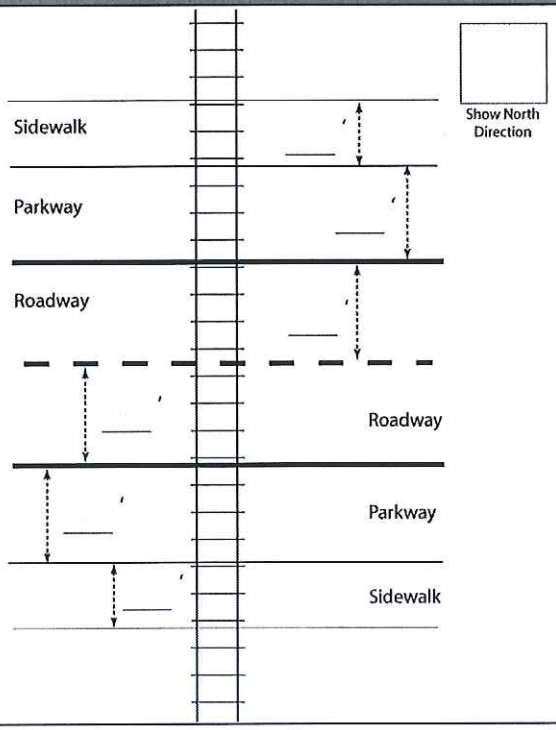
☐ Other (define)

Acknowledgement of Recommendations (each entity represented at the diagnostic must have at least one signature acknowledgement):

Clayton Weller Mayor Dunsmore

CMS

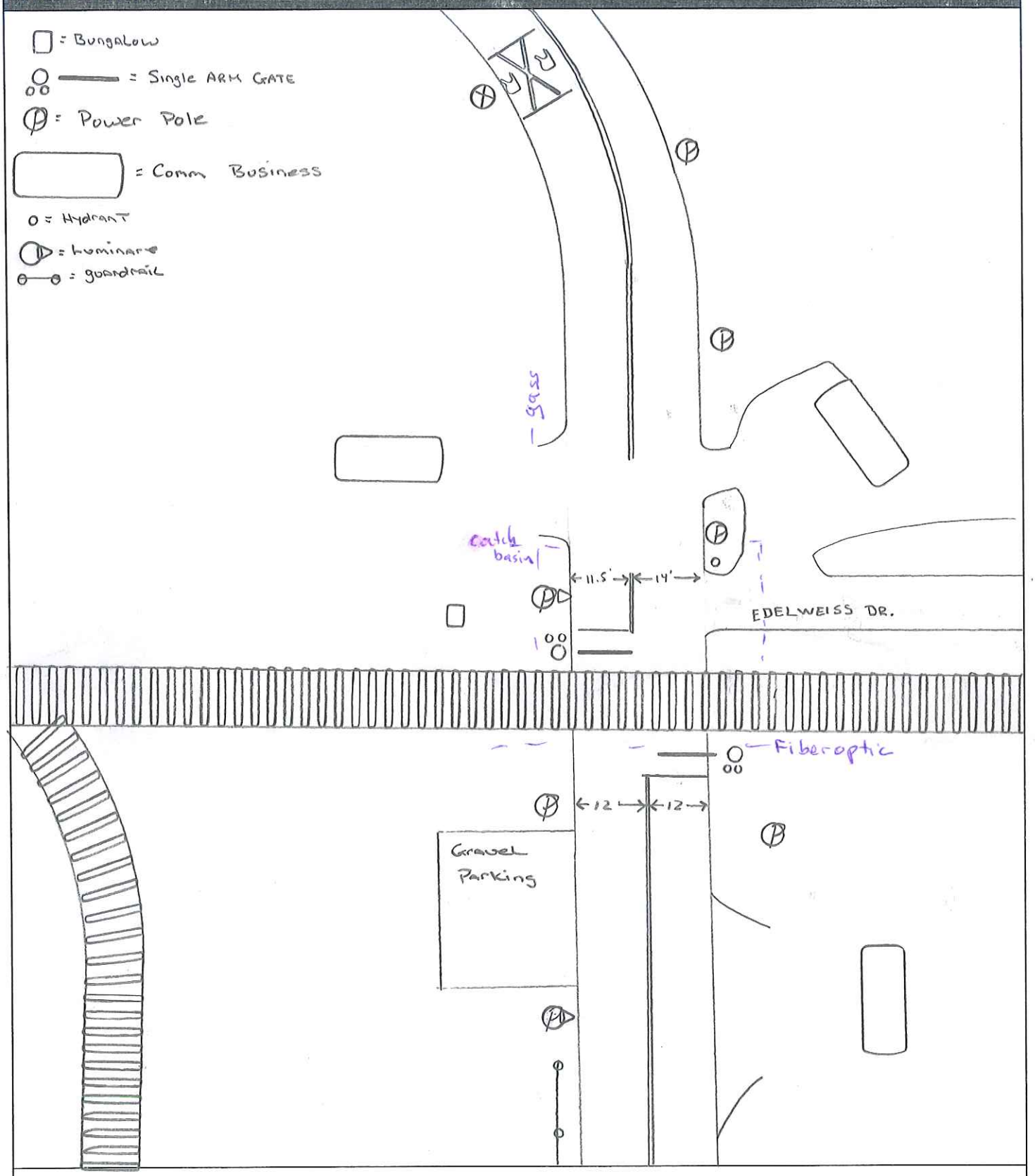
Field Dimensions



3000 GCP. Highway project - left bound Dover to NB Edelweiss add turn lane. SW gate will be relocated in roadway project.

SIGNAL Service is the contractor the City uses for existing 2 signals on 3RR

Field Sketch



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

Sketch by: _____

TABLE I

Clearing Sight Distances

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

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.

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

9/13/2018 9:28:51 AM

in

Case No(s). 18-1417-RR-FED

Summary: Application In the Matter of a Request for an Upgrade at the Ohio Central Railroad Crossing, DOT# 474-271P, Dover Road/SR 39 Road in Tuscarawas County, Ohio.
electronically filed by Mrs. Jill A Henry on behalf of PUCO/Rail Division