

# Memo

To: Docketing Division  
From: Jill Henry, Rail Specialist, Rail Division  
Cc: PUCO Legal Department  
Date: 5/5/2020

Re: PUCO Case No. 20-977-RR-FED- In the Matter of a Request for the Installation of New Active Warning Devices at the Wheeling & Lake Erie Railroad Grade Crossing, DOT# 473-647D, at SR 99/Ridge Street in Huron County, Ohio.

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On September 7, 2018, the Ohio Rail Development Commission (ORDC) authorized funding for Wheeling & Lake Erie Railroad (WE) to install lights and gates at SR 99/Ridge Street (DOT#473-647D) in Huron County, Ohio. Some additional surface and sidewalk work will also be necessary at the crossing for pedestrians. The crossing was surveyed, on May 16, 2018, and was found to warrant the upgrade. The electric utility provider for this crossing is Ohio Edison- First Energy Corp.

The project will be paid for with federal funds and is actual cost. The plans and estimates for the project in the amount of \$363,773.06 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:**

Wheeling & Lake Erie Railway Company  
Tim Andrews  
Signals & Communications Supervisor  
100 E. First Street  
Brewster, Ohio 44613

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

Village of Monroeville  
Tom Gray  
Village Administrator  
2 South Main St.  
P.O. Box 156  
Monroeville, Ohio 44847

Ohio Edison- First Energy Corp.

**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 *JT*  
**SUBJECT:** Huron County, State Route 99-14.43, Wheeling & Lake Erie  
DOT#473-647D, PID#108606  
**DATE:** April 30, 2020

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The Ohio Rail Development Commission (ORDC) established a diagnostic survey at the subject location on May 16, 2018. The Diagnostic Team recommended that the crossing be upgraded to flashing lights and roadway gates with additional surface and sidewalk work to accommodate pedestrians. 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  
Letter Agreement  
PE Authorization

c: Jill Henry, PUCO  
Heather Hamilton, ORDC  
ORDC Project Manager (file)



## Rail Development Commission

Mike DeWine, Governor  
Jon Husted, Lt. Governor

Mark Policinski, Chair

April 30, 2020

Mr. Tim Andrews  
Wheeling & Lake Erie Railway  
100 East First Street  
Brewster, Ohio 44613

RE: Huron County, SR99-14.43/Ridge Street.  
DOT#473-647D, PID#108606

Dear Mr. Andrews:

The plan stamped January 24, 2019 and estimate dated April 9, 2020 for the referenced project has been reviewed and is acceptable. Wheeling & Lake Erie (WLE) may proceed with the construction of the proposed grade crossing warning system and surface/sidewalk improvements 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 \$363,773.06. **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.

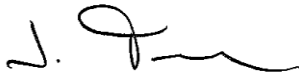
This authorization is contingent upon WLE accepting the following instructions:

1. WLE'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](mailto:James.tucker@dot.ohio.gov) and to the Public Utilities Commission of Ohio at [Jill.henry@puco.ohio.gov](mailto:Jill.henry@puco.ohio.gov). WLE'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. WLE 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 WLE. **If it is known that there are utilities that need to be relocated, WLE will need to start that coordination work as soon as possible to avoid project delays.**
3. WLE's project foremen will notify James Tucker at [James.tucker@dot.ohio.gov](mailto: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. WLE will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed ODOT Purchase Order to reference when billing.
6. WLE 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,

A handwritten signature in black ink, appearing to be 'J. Tucker', with a stylized flourish at the end.

James Tucker  
Project Manager

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



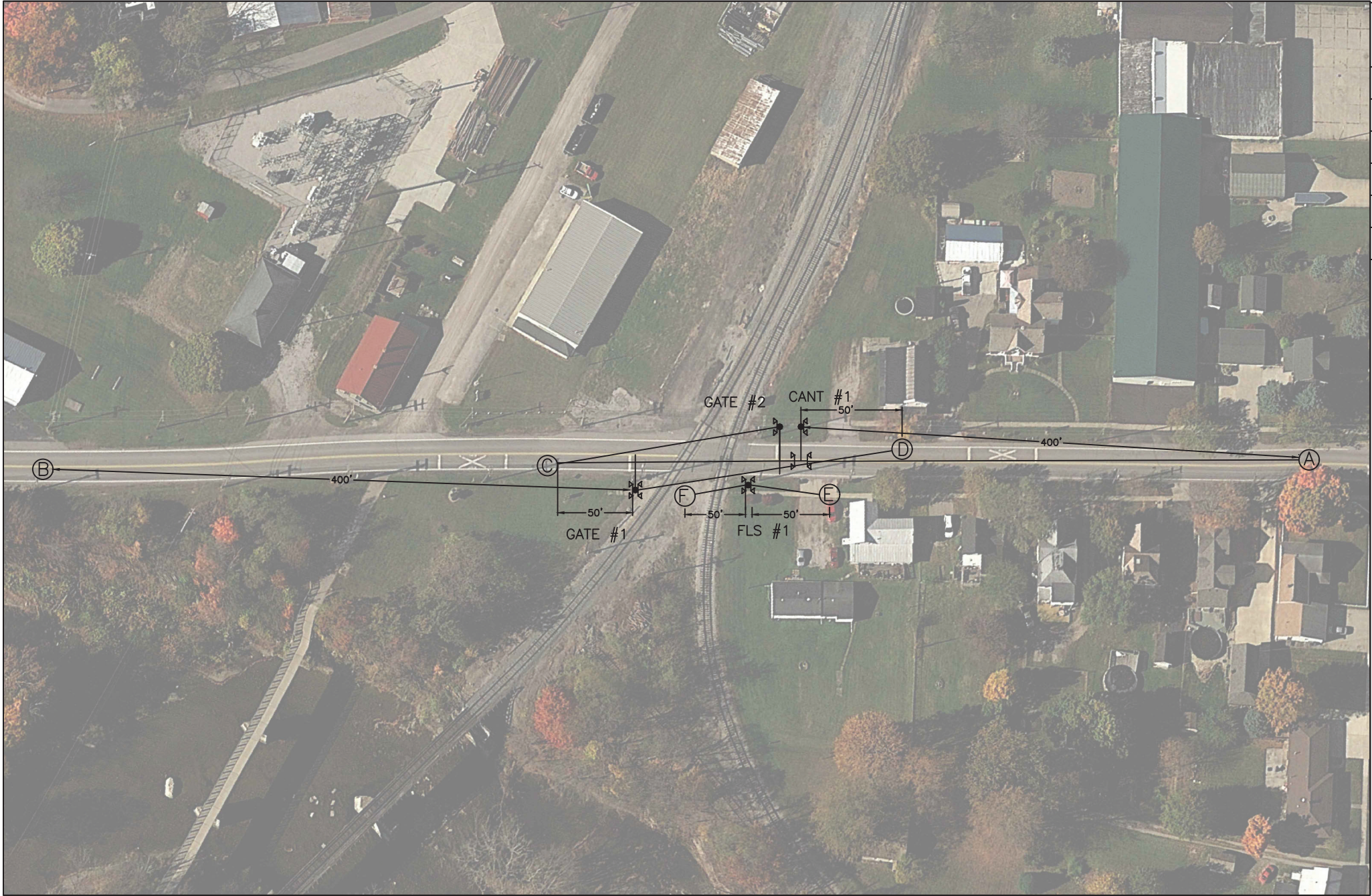


CONSTRUCTION NOTES

- 1.) INSTALL NEW 6’ X 6’ BUNGALOW IN NORTHWEST QUADRANT.
- 2.) INSTALL (2) NEW FLASHING LIGHTS WITH GATES AND NEW CANTILEVER AND NEW FLASHER SIGNAL.
- 3.) METER POLE LOCATION SHOWN ON THE PLAN IS SUBJECT TO CHANGE WITHIN RAILROAD RIGHT-OF-WAY IF UNDERGROUND OBSTRUCTIONS PREVENT THE INSTALLATION OF THE POLE IN THE LOCATION SHOWN.
- 4.) BUNGALOW LOCATION SHOWN ON THE PLAN IS SUBJECT TO CHANGE WITHIN RAILROAD RIGHT-OF-WAY IF UNDERGROUND OBSTRUCTIONS PREVENT THE INSTALLATION OF THE BUNGALOW IN THE LOCATION SHOWN.
- 5.) DOUBLE BONDING IS REQUIRED FROM THE WESTERN MOST INSULATED JOINTS ON SUNRISE TRACK BY THE DERAIL TO THE XTB & XTN TRACK WIRE CONNECTIONS.
- 6.) ON THE REVERSE TURNOUT STOCK RAIL NO BONDS ARE REQUIRED BETWEEN THE TWO INSULATED JOINTS.
- 7.) ON THE REVERSE TURNOUT NO BONDS ARE REQUIRED BETWEEN THE FROG AND THE INSULATED JOINT NEAR THE DERAIL.
- 8.) NEW CONCRETE SURFACE TO BE INSTALLED ALONG WITH NEW SIDEWALK EAST SIDE OF THE CROSSING. SIDEWALK TO BE INSTALLED BY CITY OF MONROEVILLE.
- 9.) UTILITY/POWER POLES WILL NEED TO BE RELOCATED AT BOTH NORTHWEST AND SOUTHEAST QUADRANTS.
- 10.) INSTALL 11’ LINEAR GUARDRAIL ON SW QUADRANT TO BLOCK-OFF ROADWAY.
- 11.) INSTALL NEW FLASHER UNIT ON 4” MAST.

REVISION BLOCK								<div></div>	<div></div>	<div>Wheeling &amp; Lake Erie Railway</div>					
										LOCATION SR 99 (S RIDGE STREET) MONROEVILLE, OH 41.2412835,-82.7029734					
										ORIGINAL DATE	01/24/2019	TITLE	CONSTRUCTION NOTES		
										DESIGNER	CTC	SUB	HARTLAND	CTC NO.	CN19016
										DRAFTSMAN	CTC	RRMP	H - 60.52	SCALE	N.T.S.
CHECKER	CTC	DOT NO.	473 647D	SHEET	01A of 23										

CROSSING SIGNAL ALIGNMENT



LEGEND

Ⓐ	CANT #1 FRONT MAST AND FRONT TIP LIGHTS
Ⓑ	GATE #1 FRONT MAST LIGHTS
Ⓒ	GATE #2 BACK MAST LIGHTS, AND CANT #1 BACK TIP LIGHTS
Ⓓ	GATE #1 BACK MAST LIGHTS
Ⓔ	FLS #1 FRONT MAST LIGHTS
Ⓕ	FLS #1 BACK MAST LIGHTS


ALIGNMENT

FRONT LIGHTS  
ADJUST LIGHT UNIT VERTICALLY TO ALIGN AXIS OF BEAM 5FT. 6IN. ABOVE PAVEMENT AT SELECTED ALIGNMENT DISTANCE. BOTH LAMPS SHOULD BE ALIGNED TO SAME POINT.

ADJUST LIGHT UNIT HORIZONTALLY TO ALIGN AXIS OF BEAM TO CENTER OF APPROACH LANE IN APPROACH TO SIGNAL AT SELECTED ALIGNMENT DISTANCE, MAINTAINING VERTICAL ALIGNMENT. BOTH LAMPS SHOULD BE ALIGNED TO SAME POINT.

BACK LIGHTS  
ADJUST LIGHT UNIT VERTICALLY TO ALIGN AXIS OF BEAM 5 FT. 6 IN. ABOVE PAVEMENT AT A POINT 50 FT. IN APPROACH TO THE SIGNAL ON OPPOSITE SIDE OF TRACK.

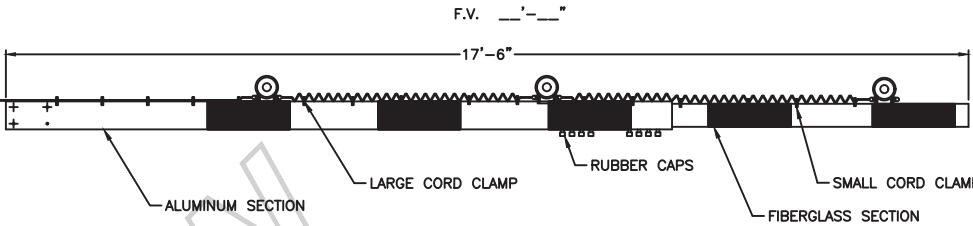
ADJUST LIGHT UNIT HORIZONTALLY TO ALIGN AXIS OF BEAM TO A POINT 50 FT. IN APPROACH TO THE SIGNAL ON OPPOSITE SIDE OF TRACK AND IN CENTER OF APPROACH TRAVEL WAY.

										<b>Wheeling &amp; Lake Erie Railway</b>		
										LOCATION SR 99 (S RIDGE STREET) MONROEVILLE, OH 41.2412835,-82.7029734		
ORIGINAL DATE 01/24/2019		TITLE CROSSING SIGNAL ALIGNMENT										
DESIGNER CTC		SUB HARTLAND		CTC NO. CN19016								
DRAFTSMAN CTC		RRMP H - 60.52		SCALE N.T.S.								
CHECKER CTC		DOT NO. 473 647D		SHEET 02 of 23								

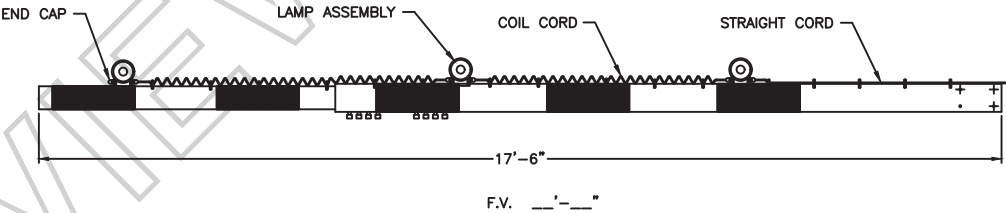
SITE LAYOUT NOTES

1.) CROSSING IS LOCATED: LATITUDE 41.2412835  
LONGITUDE -82.7029734

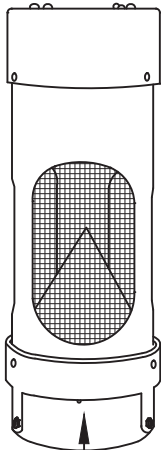
GATE #1



GATE #2



ELECTRONIC CROSSING BELL  
GSI MODEL EB-3-360-5



THIS SIDE FACING  
ROADWAY

<div>THIS SIDE FACING ROADWAY</div>											<div>W&amp;LE</div>	<div>Wheeling &amp; Lake Erie Railway</div>	LOCATION					
													SR 99 (S RIDGE STREET) MONROEVILLE, OH 41.2412835,-82.7029734					
													ORIGINAL DATE	01/24/2019	TITLE	SITE LAYOUT NOTES		
													DESIGNER	CTC	SUB	HARTLAND	CTC NO.	CN19016
													DRAFTSMAN	CTC	RRMP	H - 60.52	SCALE	N.T.S.
													CHECKER	CTC	DOT NO.	473 647D	SHEET	03 of 23
REVISION BLOCK																		



ADJUSTMENT NAME		MDR1				MDR2			
NAME		HIGHWAY CROSSING				HIGHWAY CROSSING			
WARNING TIME		29 SEC				27 SEC			
CW/MD		CW				CW			
AP TIME		00 SEC				00 SEC			
CWE-WT		00 SEC				00 SEC			
AUX RECOVERY DELAY		05 SEC				05 SEC			
		TK1	TK2	TK3	TK4	TK1	TK2	TK3	TK4
TRACK ASSIGNED		ASSIGN				ASSIGN			
OFFSET DISTANCE		0 FT				0 FT			
MD RESTART		*				*			
SUDDEN SHUNT ZONE		*				*			
POSITIVE START	PSEN	DISABLE				DISABLE			
	PSRX	NA				NA			
	PST	NA				NA			
POST JOINT DETECT	PJEN	DISABLE				DISABLE			
	PJRX	NA				NA			
	PJDT	NA				NA			

BASIC TRACK SETUP				
	TK1	TK2	TK3	TK4
FREQUENCY	211 HZ			
MASTER/SLAVE	MASTER			
RX ADJUST	100			
TCA	*			
DIRECTION MODE	BI			
LIA	*			
ADVANCED APR. CAL	INACTIVE			
NBS COMP RX	*			
TRK ISLAND ASSIGN	ISL1			
APPROACH LENGTH	2000 FT			
AUTO RX	ENABLE			

IXC SETUP				
CROSSING TEST MODE	OFF			
FLASH RATE	55FPM			
	IXC-1	IXC-2	IXC-3	IXC-4
VOLTAGE REGULATION	ON			
L1 VOLTAGE	* 10.0			
L2 VOLTAGE	* 10.0			
GATE 1 DELAY	3 SEC			
GATE 2 DELAY	3 SEC			

ADVANCED TRACK SETUP				
	TK1	TK2	TK3	TK4
MOTION DET TIMER	MDEN	DISABLE		
	MDTT	10 MIN		
FALSE SHUNT	FSEN	DISABLE		
	FSRX	NA		
	FST	NA		
APPROACH RELEASE	AREN	DISABLE		
	ARRX	NA		
	ART	NA		
LOS TIME		16 SEC		
IJ-LOS TIME		5 SEC		
NRML_SHHTR_VRSHRT		NRML *		

ISLAND SETUP				
	TK1	TK2	TK3	TK4
ENABLE/DISABLE	ENABLE			
FREQUENCY	4.0 KHZ			
LOSS OF SHUNT	4 SEC			
FAULT DELAY	1			

SHUNT RECORDS									
APPROACH 1 (EAST)		NO SHUNT		100% SHUNT		50% SHUNT		LIA ADDED	
		RX	PHASE	RX	PHASE		RX	PHASE	± 1 to ±9
Track 1	Normal								
	Standby								
Track 2	Normal								
	Standby								
APPROACH 2 (WEST)									
Track 1	Normal								
	Standby								
Track 2	Normal								
	Standby								

INITIAL VALUES WHEN PLACED IN SERVICE

APPLICATION SOFTWARE INFORMATION	
NAME	*
REV.	1
CHECKSUM	
CRC	
CHASSIS ID	
LOCATED BEHIND UCI-3	CHASSIS ID
	1 2 3 4 5 6 7 8 ⦿ ⦿ ⦿ ⦿ ⦿ ⦿ ⦿ ⦿ □ □ □ □ □ □ □ □

- ⦿ = TAB INTACT  
● = TAB PUNCHED OUT

EXECUTIVE INFORMATION		
VPM-3	VERSION	PART NUMBER
CROSSING SOFTWARE	*	083024-716

NOTES:  
\* = FIELD ADJUSTMENT  
NA = NOT APPLICABLE

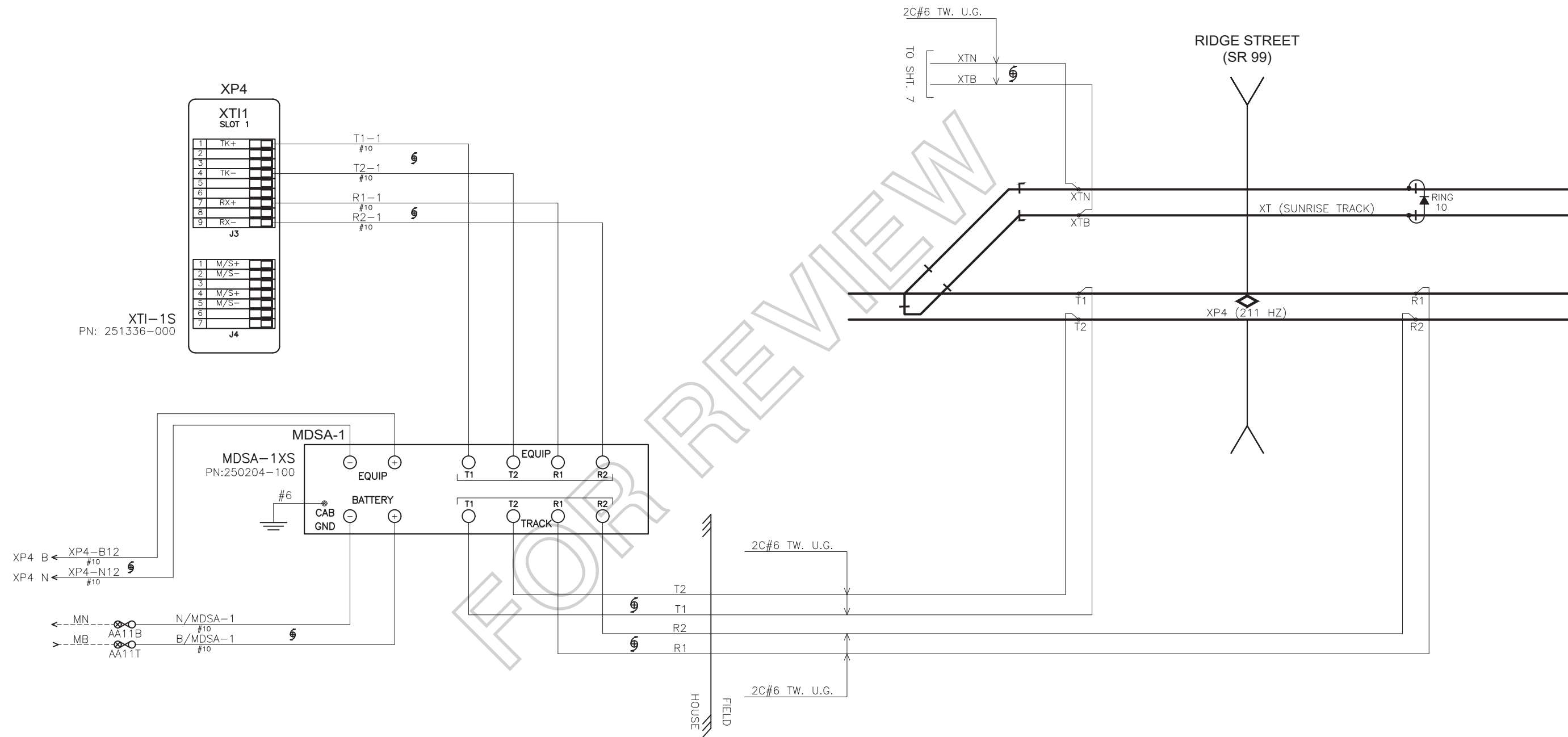
CHANGE FROM TYPICAL: Y

REVISION  
BLOCK

**W&LE**

**Wheeling & Lake Erie  
Railway**

LOCATION			SR 99 (S RIDGE STREET) MONROEVILLE, OH 41.2412835,-82.7029734		
ORIGINAL DATE	01/24/2019	TITLE	XP4 SETUP SHEET		
DESIGNER	CTC	SUB	HARTLAND	CTC NO.	CN19016
DRAFTSMAN	CTC	RRMP	H - 60.52	SCALE	N.T.S.
CHECKER	CTC	DOT NO.	473 647D	SHEET	05 of 23



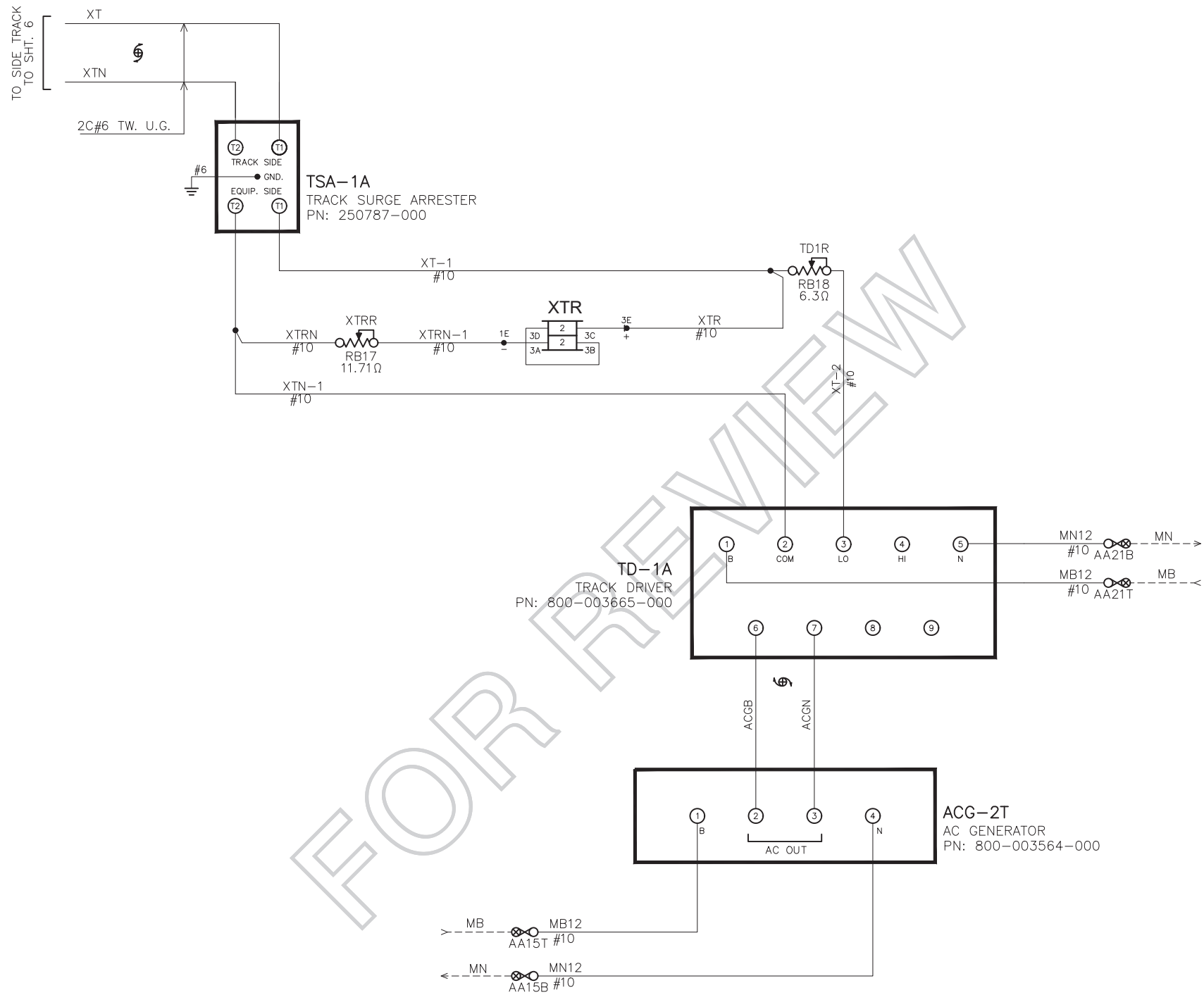
REVISION  
BLOCK

CHANGE FROM TYPICAL: Y

**W&LE**

**Wheeling & Lake Erie  
Railway**

LOCATION			SR 99 (S RIDGE STREET) MONROEVILLE, OH 41.2412835,-82.7029734		
ORIGINAL DATE	01/24/2019	TITLE	TRACK CONNECTION CIRCUITS		
DESIGNER	CTC	SUB	HARTLAND	CTC NO.	CN19016
DRAFTSMAN	CTC	RRMP	H - 60.52	SCALE	N.T.S.
CHECKER	CTC	DOT NO.	473 647D	SHEET	06 of 23



REVISION  
BLOCK

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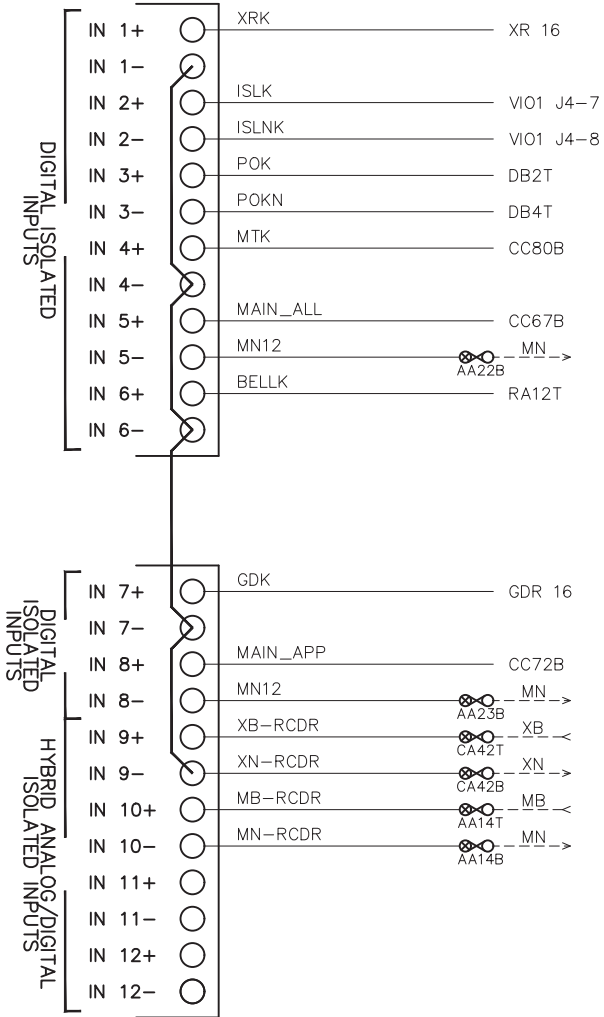
**W&LE**

**Wheeling & Lake Erie  
Railway**

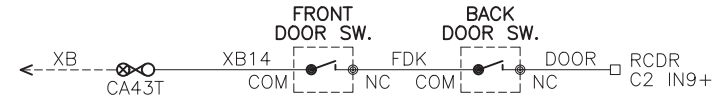
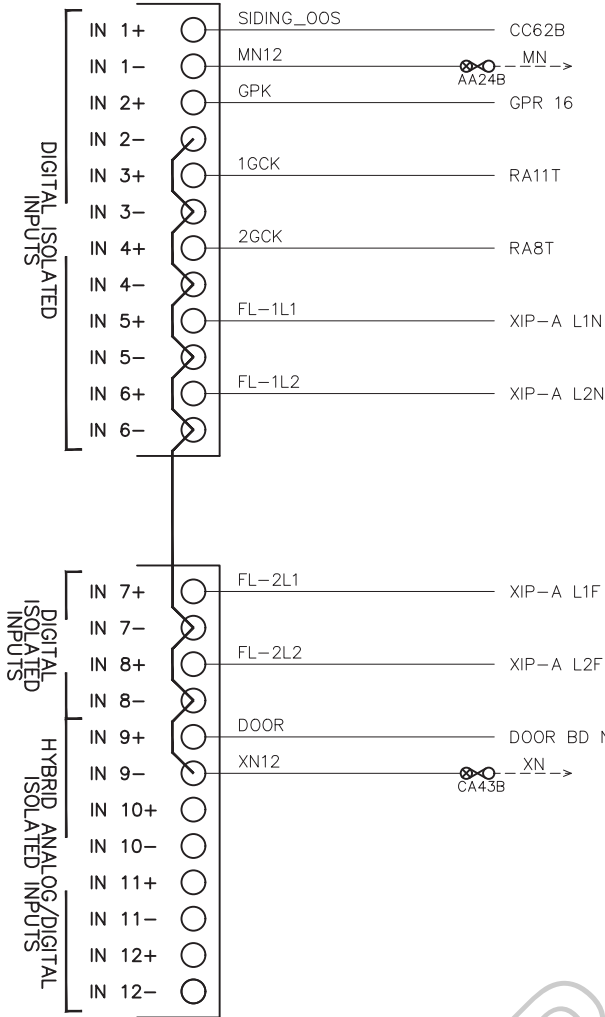
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ORIGINAL DATE	01/24/2019	TITLE	CROSSING CONTROL CIRCUITS
DESIGNER	CTC	SUB	HARTLAND
DRAFTSMAN	CTC	RRMP	H - 60.52
CHECKER	CTC	DOT NO.	473 647D
		CTC NO.	CN19016
		SCALE	N.T.S.
		SHEET	07 of 23



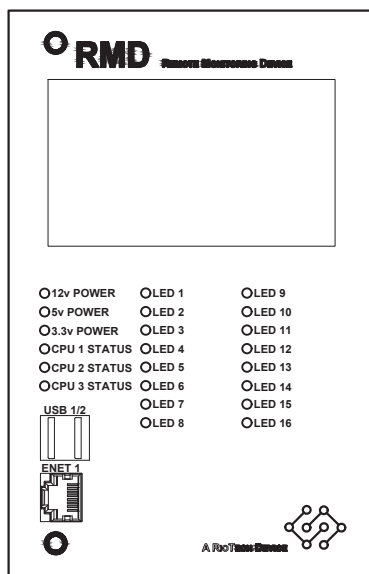
C1



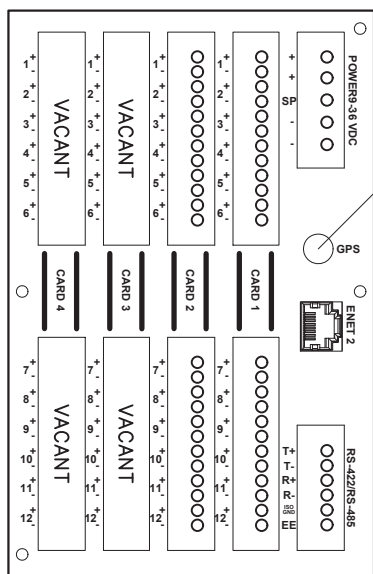
C2



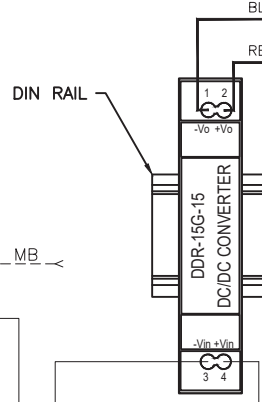
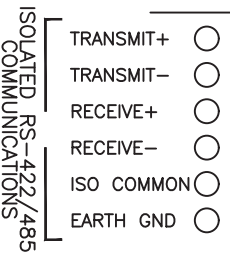
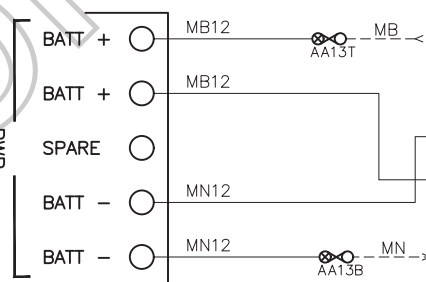
FRONT PANEL



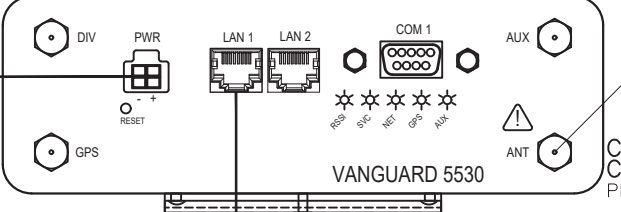
BACK PANEL



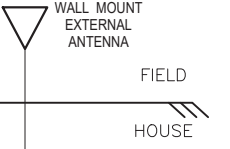
CPU



RMD ENET 2



Wilson Electronics  
4G Omni Plus Antenna  
PN: 304422-5810



DIN RAIL MOUNT  
PN: 250-5800-410

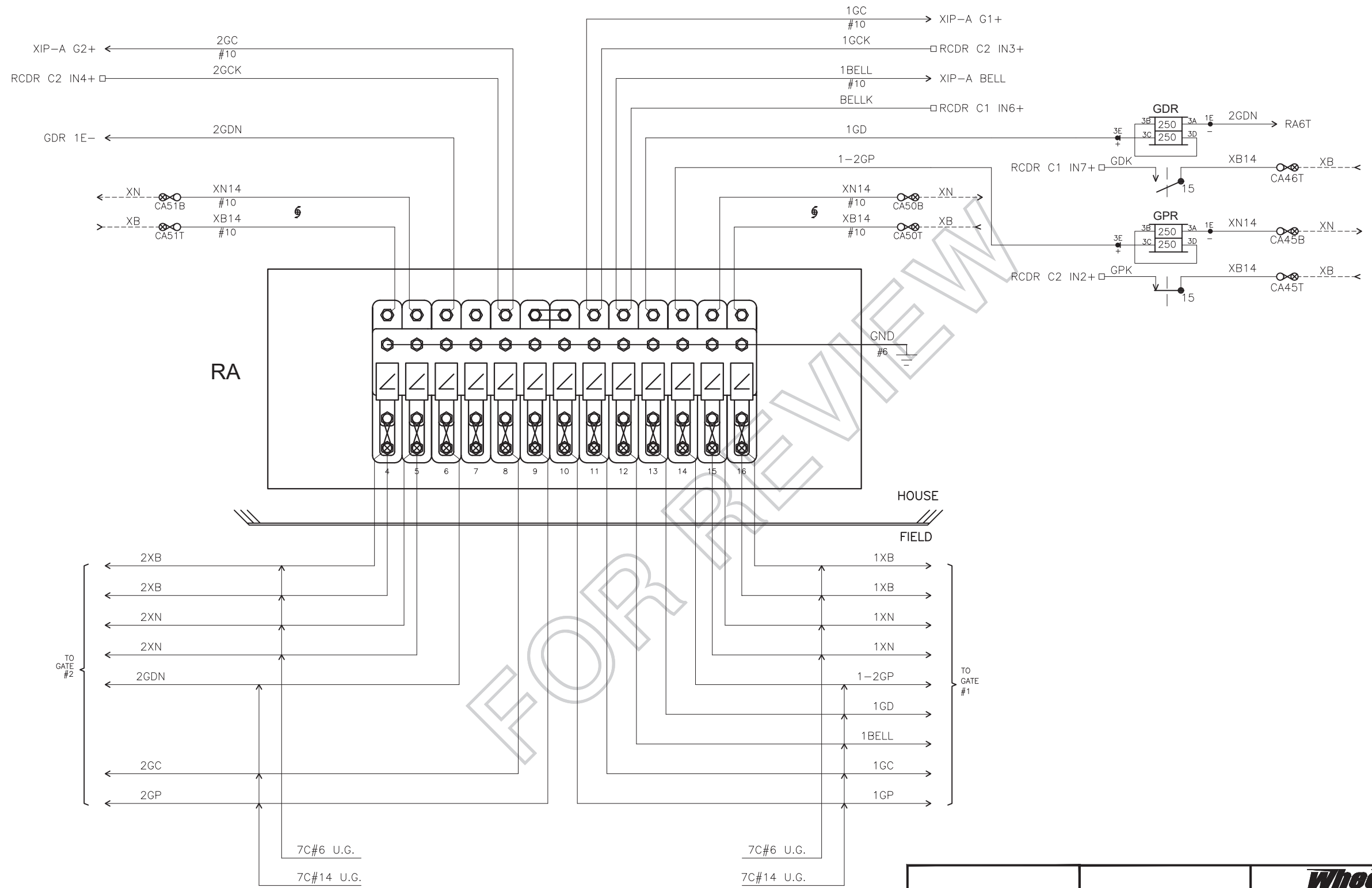
**W&LE**

**Wheeling & Lake Erie  
Railway**

LOCATION			SR 99 (S RIDGE STREET) MONROEVILLE, OH 41.2412835,-82.7029734		
ORIGINAL DATE	01/24/2019	TITLE	RECORDER	CTC NO.	CN19016
DESIGNER	CTC	SUB	HARTLAND	SCALE	N.T.S.
DRAFTSMAN	CTC	RRMP	H - 60.52	SHEET	09 of 23
CHECKER	CTC	DOT NO.	473 647D		

REVISION  
BLOCK

CHANGE FROM TYPICAL: Y



NOTES: ALL WIRING THIS SHEET #16 AWG  
UNLESS NOTED OTHERWISE.

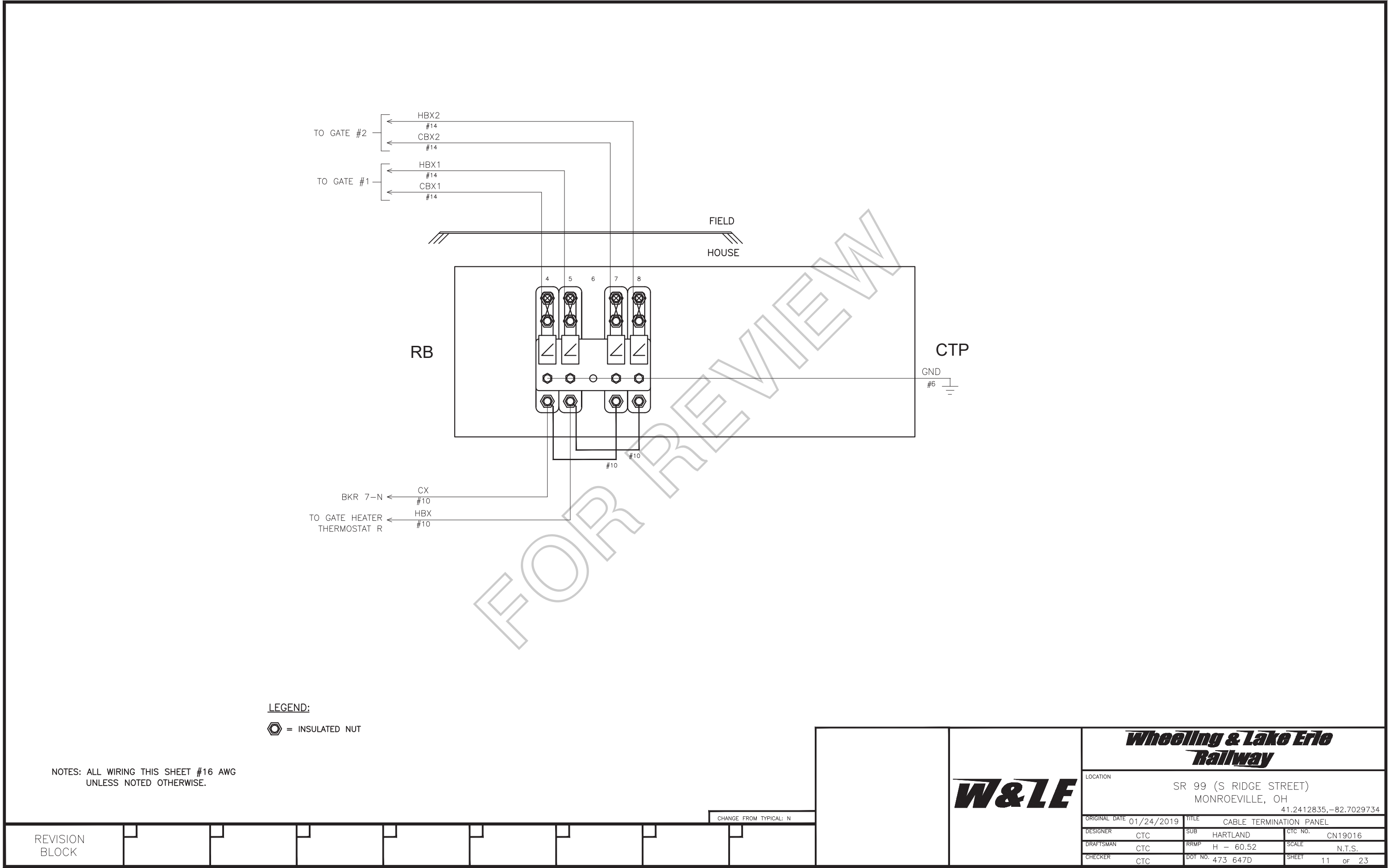
REVISION  
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CHANGE FROM TYPICAL: N



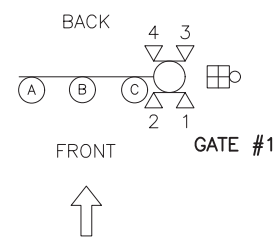
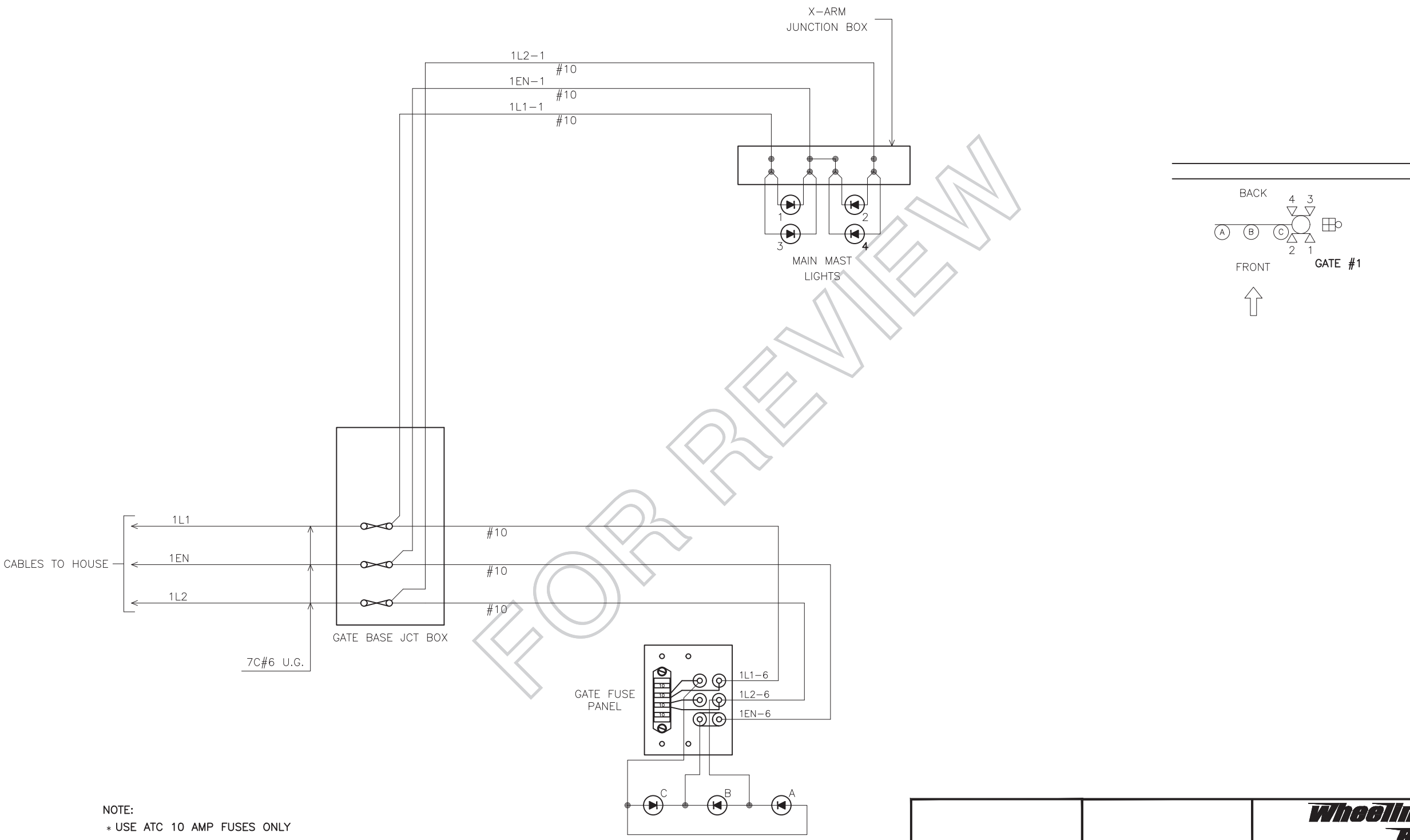
**Wheeling & Lake Erie  
Railway**

LOCATION			SR 99 (S RIDGE STREET) MONROEVILLE, OH 41.2412835,-82.7029734		
ORIGINAL DATE	01/24/2019	TITLE	ARRESTOR PANEL		
DESIGNER	CTC	SUB	HARTLAND	CTC NO.	CN19016
DRAFTSMAN	CTC	RRMP	H - 60.52	SCALE	N.T.S.
CHECKER	CTC	DOT NO.	473 647D	SHEET	10 of 23





GATE #1



NOTE:  
\* USE ATC 10 AMP FUSES ONLY  
IS LED SYMBOL ONLY. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

CHANGE FROM TYPICAL: Y

REVISION  
BLOCK

**W&LE**

**Wheeling & Lake Erie  
Railway**

LOCATION			SR 99 (S RIDGE STREET) MONROEVILLE, OH 41.2412835,-82.7029734		
ORIGINAL DATE	01/24/2019	TITLE	GATE #1 LIGHTS (NEAR SIDE)		
DESIGNER	CTC	SUB	HARTLAND	CTC NO.	CN19016
DRAFTSMAN	CTC	RRMP	H - 60.52	SCALE	N.T.S.
CHECKER	CTC	DOT NO.	473 647D	SHEET	13 of 23


CONTACT	CLOSED	FUNCTION	TENSION
1B	75-90 DEG.	POWER DOWN	18-28 OZ.
1F	0-70 DEG.	SNUB DOWN	18-28 OZ.
2	0-86 DEG.	POWER UP	18-28 OZ.
3	0-10 DEG.	GATE DOWN	16-24 OZ.
4	82-90 DEG.	GATE CLEAR	16-24 OZ.
5	10-90 DEG.	BELL	16-24 OZ.
6	SPARE	SPARE	16-24 OZ.
7	0-2 DEG.	SNUB	16-24 OZ.

LEGEND:

 = INSULATED NUT

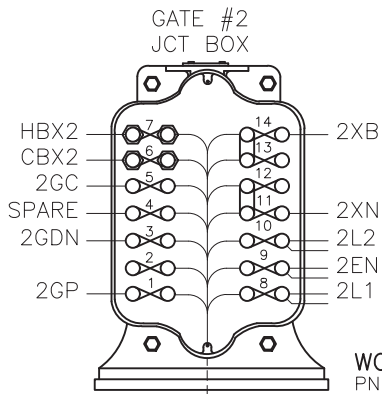
NOTES:

\* BELL TO BE ELECTRONIC.

 = INTERNAL GATE WIRES THAT SHARE ELECTRICAL CONNECTIONS WITH OTHER WIRES THAT ARE ASSIGNED THE SAME NUMBER.

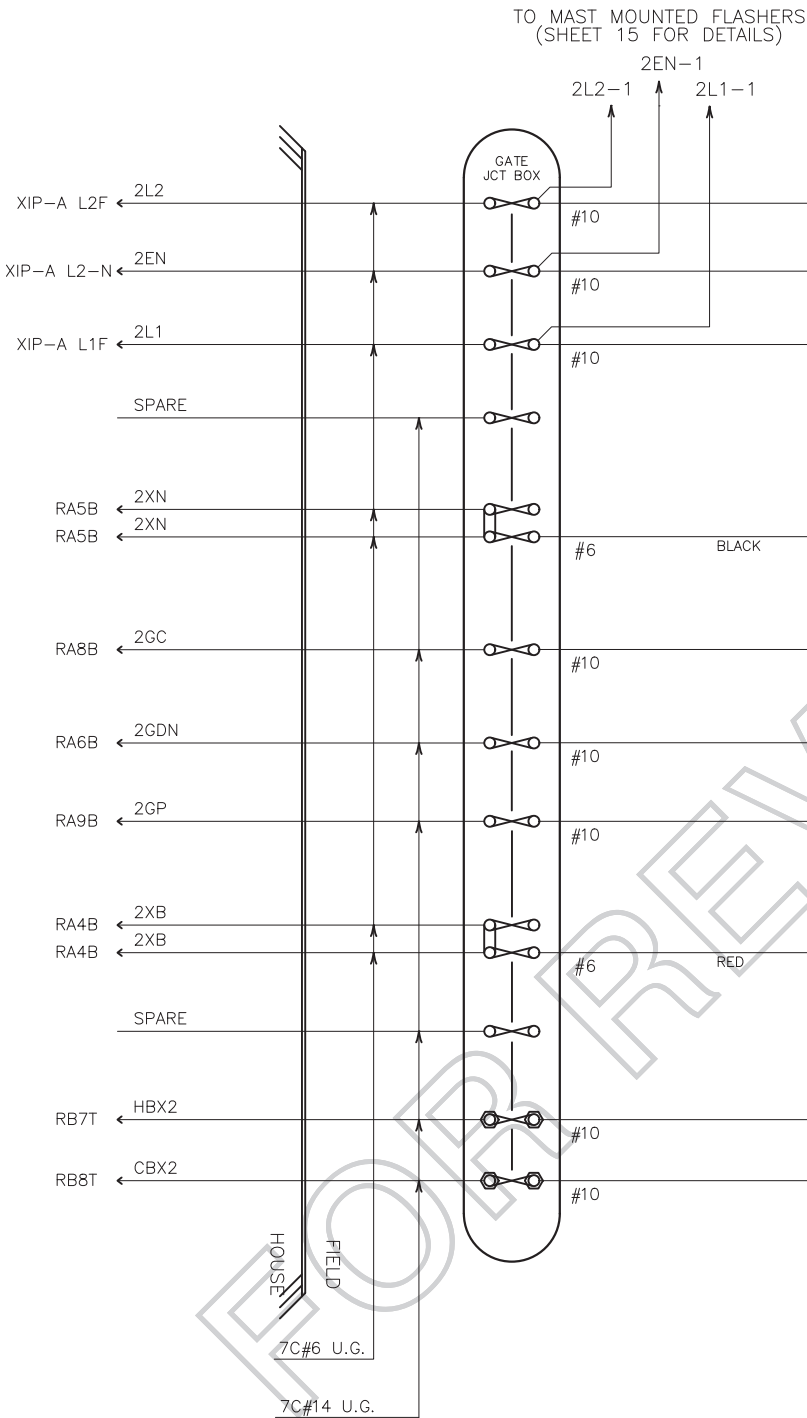
REFER TO SHEET 15 FOR GATE ARM LIGHT WIRING

ADD BOLD STRAPS AND JUMPERS AS SHOWN.

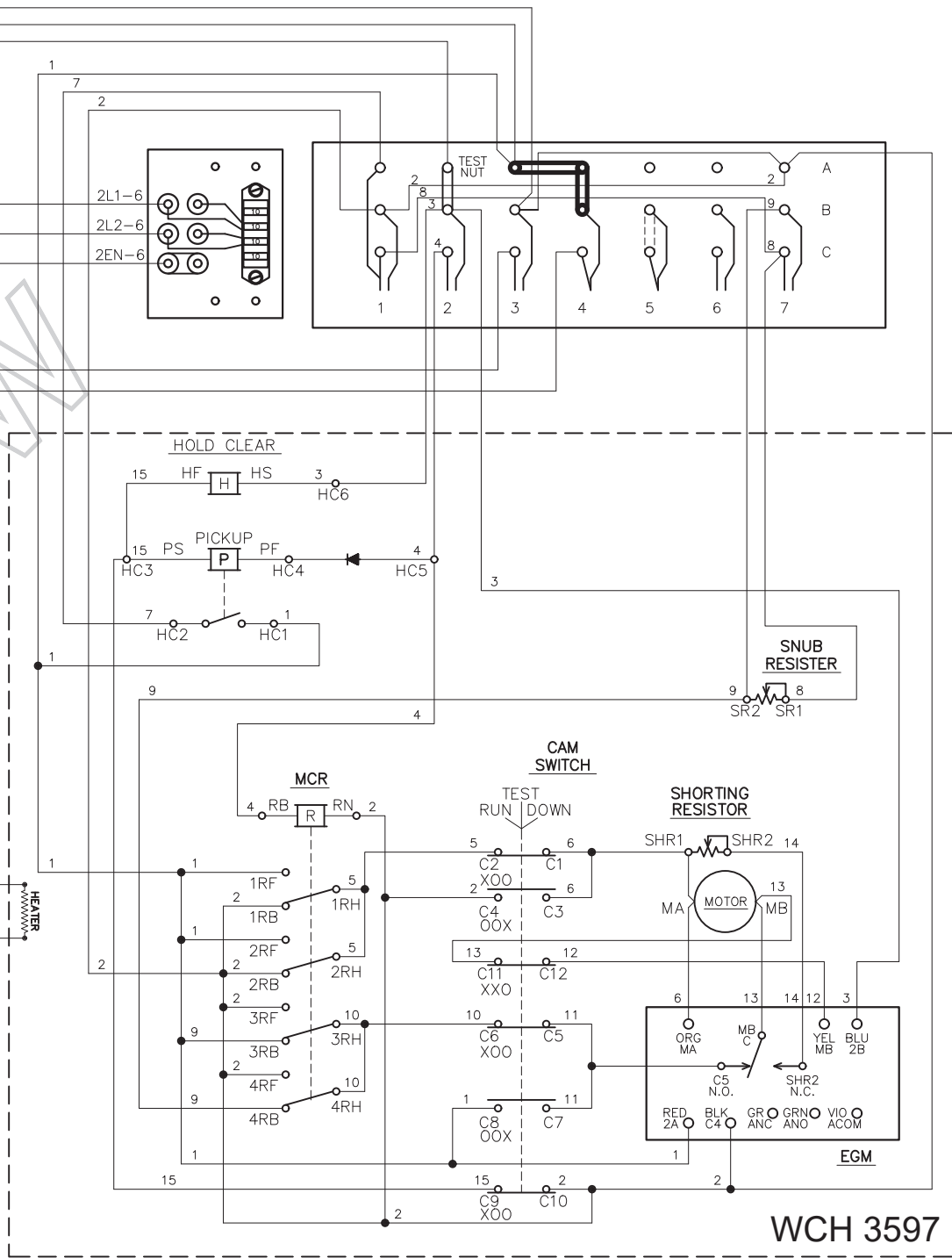


WCH Junction box base  
PN: 2149-A-139

→ CABLES TO HOUSE



GATE #2



WCH 3597

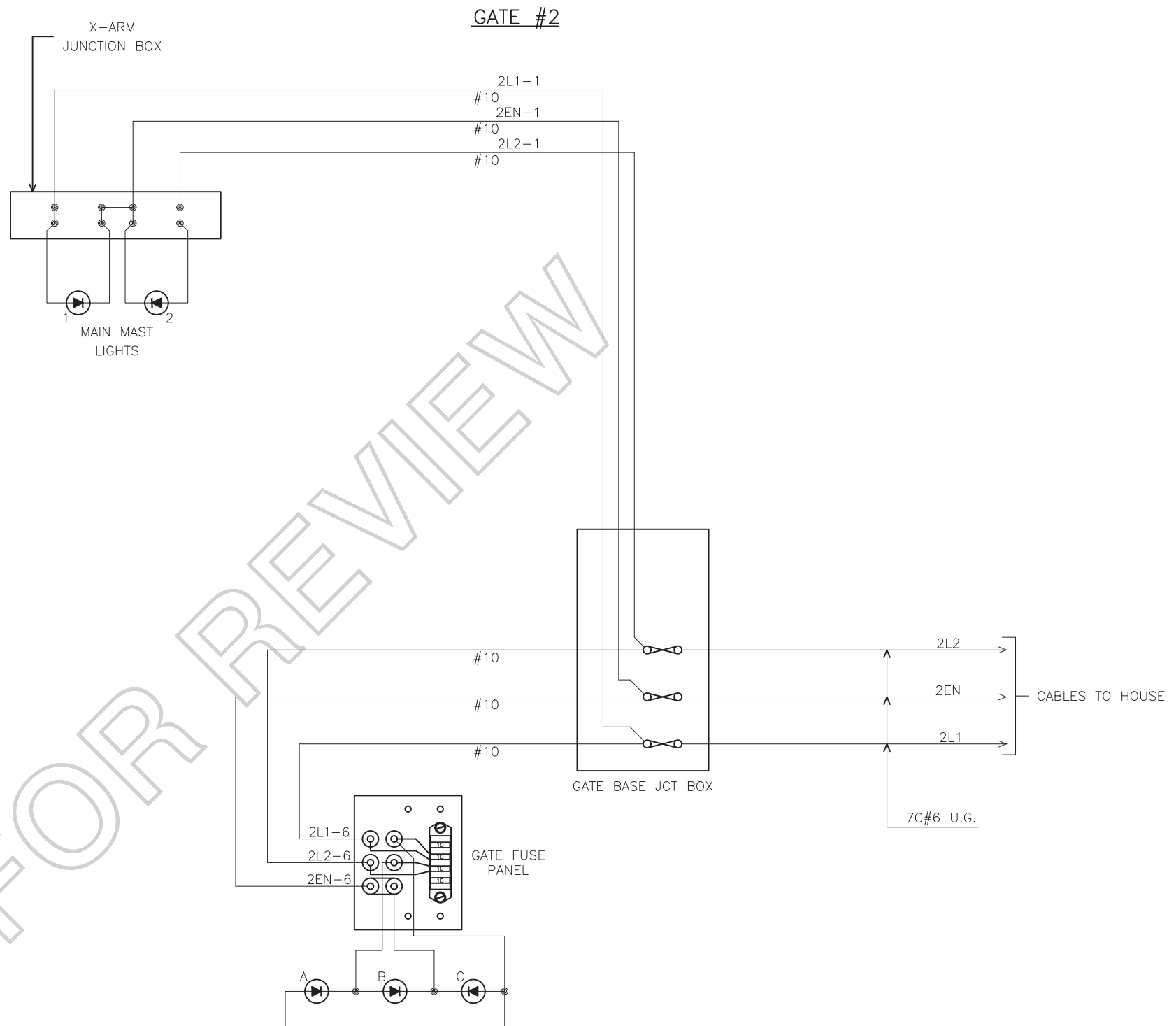
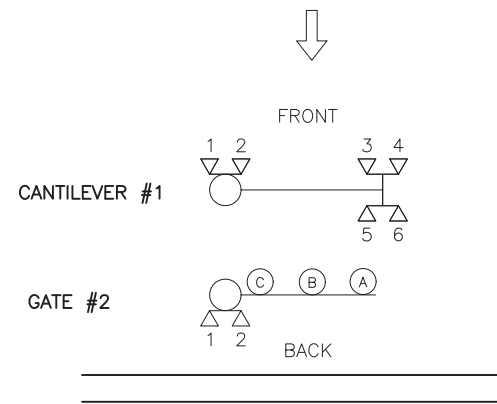
REVISION  
BLOCK

CHANGE FROM TYPICAL: Y

**W&LE**

**Wheeling & Lake Erie  
Railway**

LOCATION SR 99 (S RIDGE STREET) MONROEVILLE, OH 41.2412835,-82.7029734		
ORIGINAL DATE 01/24/2019	TITLE GATE #2 MECHANISM (FAR SIDE)	
DESIGNER CTC	SUB HARTLAND	CTC NO. CN19016
DRAFTSMAN CTC	RRMP H - 60.52	SCALE N.T.S.
CHECKER CTC	DOT NO. 473 647D	SHEET 14 of 23



NOTE:  
\* USE ATC 10 AMP FUSES ONLY  
IS LED SYMBOL ONLY. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

CHANGE FROM TYPICAL: Y

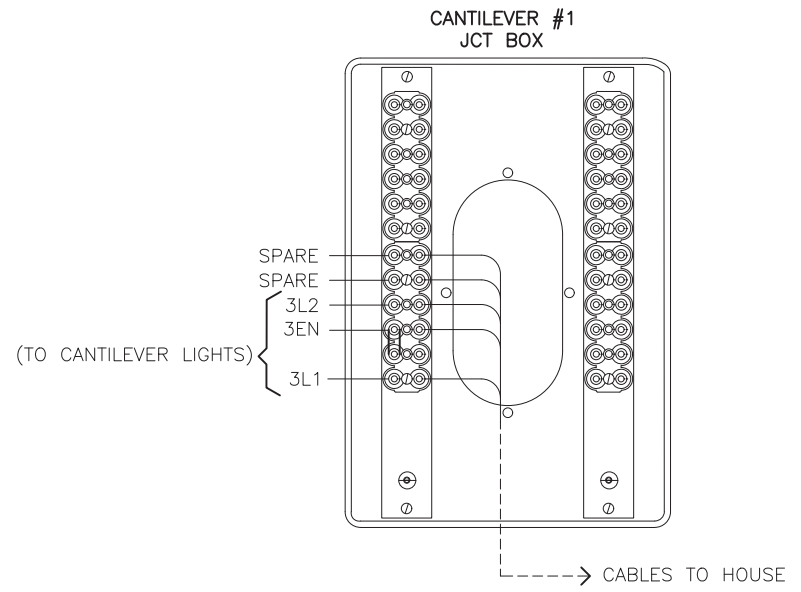
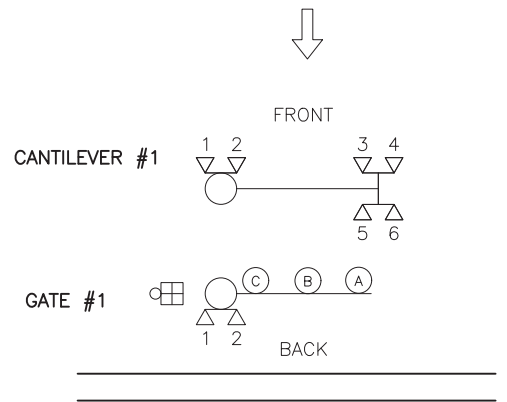
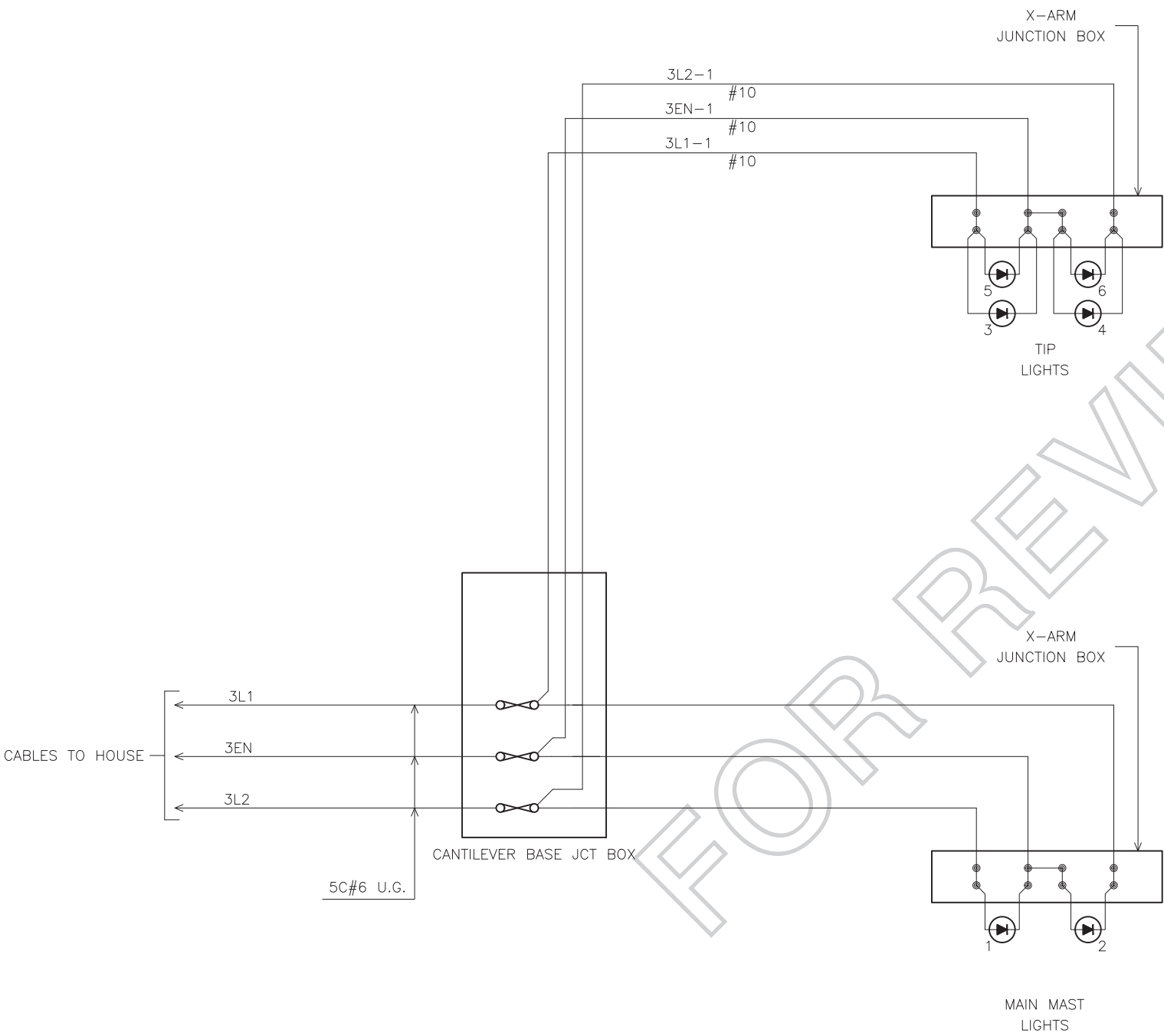
REVISION  
BLOCK

**W&LE**


**Wheeling & Lake Erie  
Railway**

LOCATION			SR 99 (S RIDGE STREET) MONROEVILLE, OH 41.2412835,-82.7029734		
ORIGINAL DATE	01/24/2019	TITLE	GATE #2 LIGHTS (FAR SIDE)		
DESIGNER	CTC	SUB	HARTLAND	CTC NO.	CN19016
DRAFTSMAN	CTC	RRMP	H - 60.52	SCALE	N.T.S.
CHECKER	CTC	DOT NO.	473 647D	SHEET	15 of 23

CANTILEVER #1

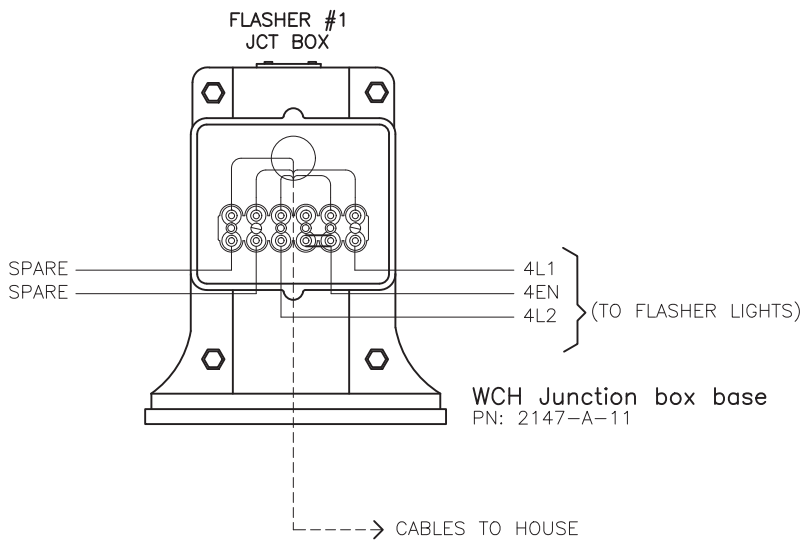
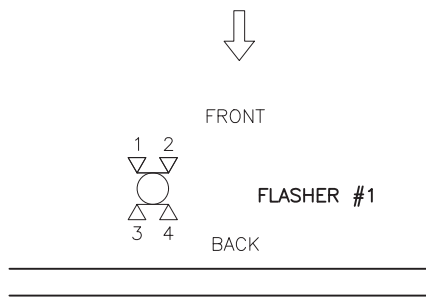
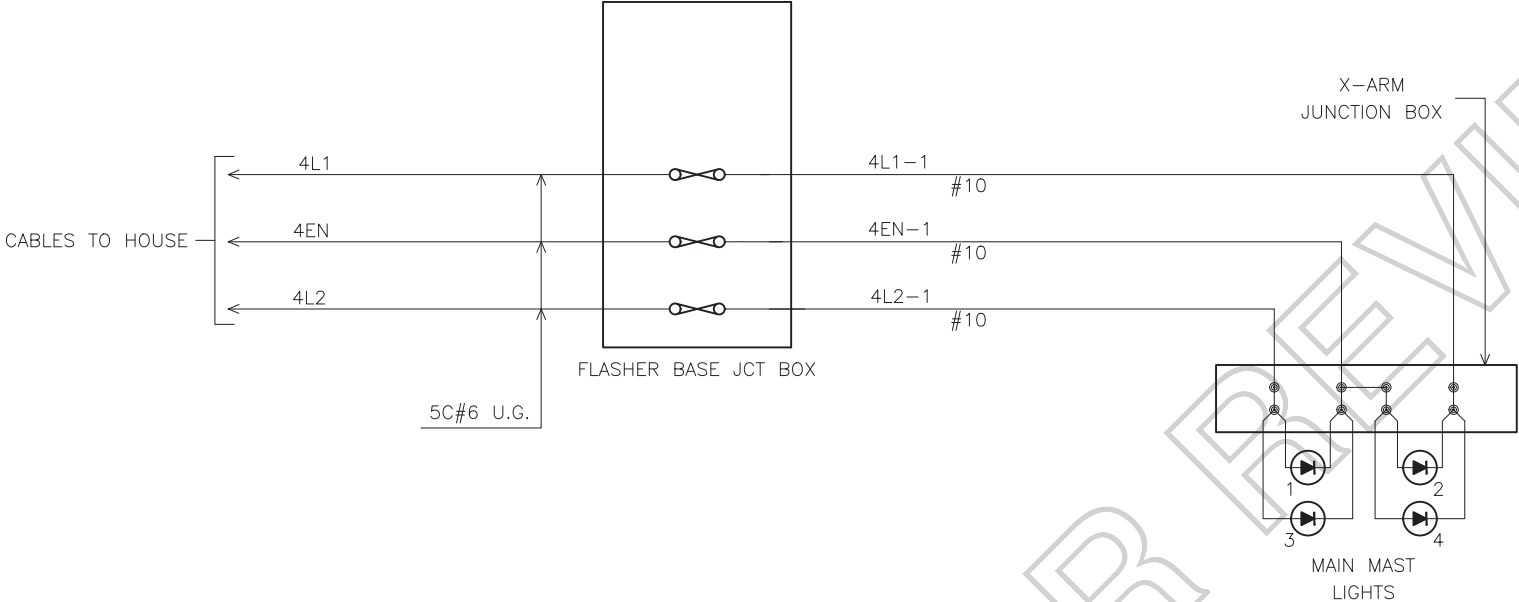


NOTE:  
IS LED SYMBOL ONLY. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.


<div>NOTE:</div> <div> IS LED SYMBOL ONLY. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.</div>										<div></div>	<div></div>	<div><i>Wheeling &amp; Lake Erie</i> <i>Railway</i></div>									
												LOCATION									
												SR 99 (S RIDGE STREET) MONROEVILLE, OH									
												41.2412835,-82.7029734									
												TITLE									
										CANTILEVER #1 LIGHTS (NEAR SIDE)											
										ORIGINAL DATE		01/24/2019		SUB		HARTLAND		CTC NO.		CN19016	
										DESIGNER		CTC		RRMP		H - 60.52		SCALE		N.T.S.	
										DRAFTSMAN		CTC		DOT NO.		473 647D		SHEET		16 of 23	
										CHECKER		CTC									

REVISION BLOCK										CHANGE FROM TYPICAL: Y									

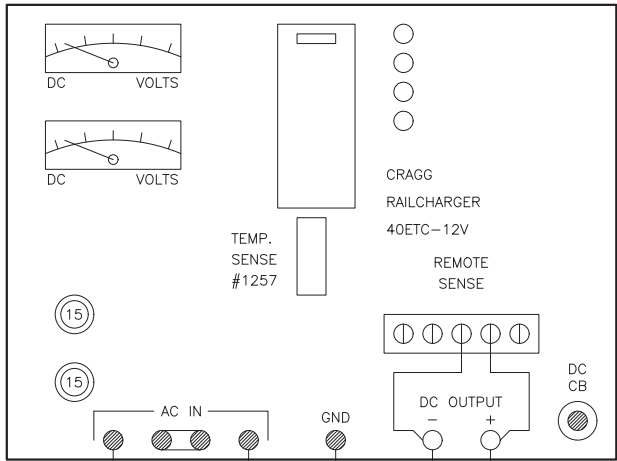
FLASHER #1



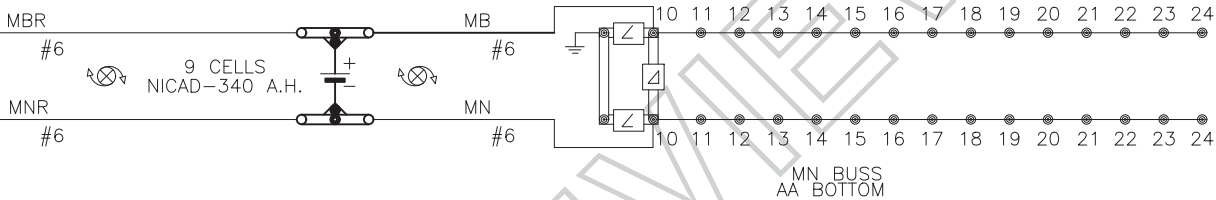
NOTE:  
IS LED SYMBOL ONLY. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

<div>NOTE:</div> <div> IS LED SYMBOL ONLY. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.</div>										<div></div>	<div></div>	<div><i>Wheeling &amp; Lake Erie</i> <i>Railway</i></div>					
												LOCATION					
												SR 99 (S RIDGE STREET) MONROEVILLE, OH					
												41.2412835,-82.7029734					
												ORIGINAL DATE 01/24/2019		TITLE		FLASHER #1 LIGHTS (FAR SIDE)	
												DESIGNER CTC		SUB HARTLAND		CTC NO. CN19016	
												DRAFTSMAN CTC		RRMP H - 60.52		SCALE N.T.S.	
										CHECKER CTC		DOT NO. 473 647D		SHEET 17 of 23			
REVISION BLOCK										CHANGE FROM TYPICAL: Y							

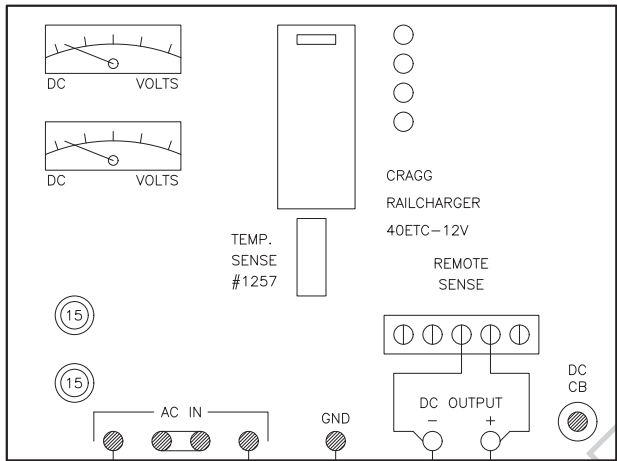
MB-CHARGER  
(SIDE "A" WALL)



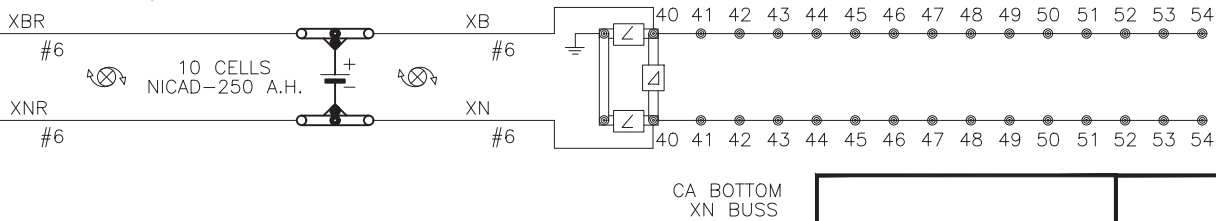
MB-BATTERY



XB-CHARGER  
(SIDE "C" WALL)



XB-BATTERY



BATTERY BUSS DETAILS

SPARE	24	SPARE
SPUR_ISL CC40T	23	VI02 J3-2
XTR 12	22	VI02 J3-5
TD-1A 1	21	TD-1A 5
T1_APP CC50T	20	VI01 J3-5
T1_ALL CC45T	19	VI01 J3-2
SPARE	18	SPARE
PO DB1	17	PO DB3
SPARE	16	SPARE
ACG-2T 1	15	ACG-2T 4
RCDR C1 IN10+	14	RCDR CA IN10-
RCDR BATT+	13	RCDR BATT-
SPARE	12	SPARE
MDSA-1 B+	11	MDSA-1 B-
MB BATT+	10	MN BATT-

BATTERY BUSS DETAILS

SPARE	54	SPARE
SPARE	53	SPARE
XR 15	52	XIP-A G1-
RA4T	51	RA5T
RA16T	50	RA15T
XIP-A B	49	XIP-A N
GDR 25	48	IXC-A J5-2
GPR 12	47	IXC-A J5-10
GDR 15	46	SPARE
GPR 15	45	GPR 1E
CC58T	44	IXC-A J5-14
FD COM	43	RCDR C2 IN9-
RCDR C1 IN9+	42	RCDR C1 IN9-
XIP-A L1B-B	41	XIP-A L1B-N
XB BATT+	40	XN BATT-

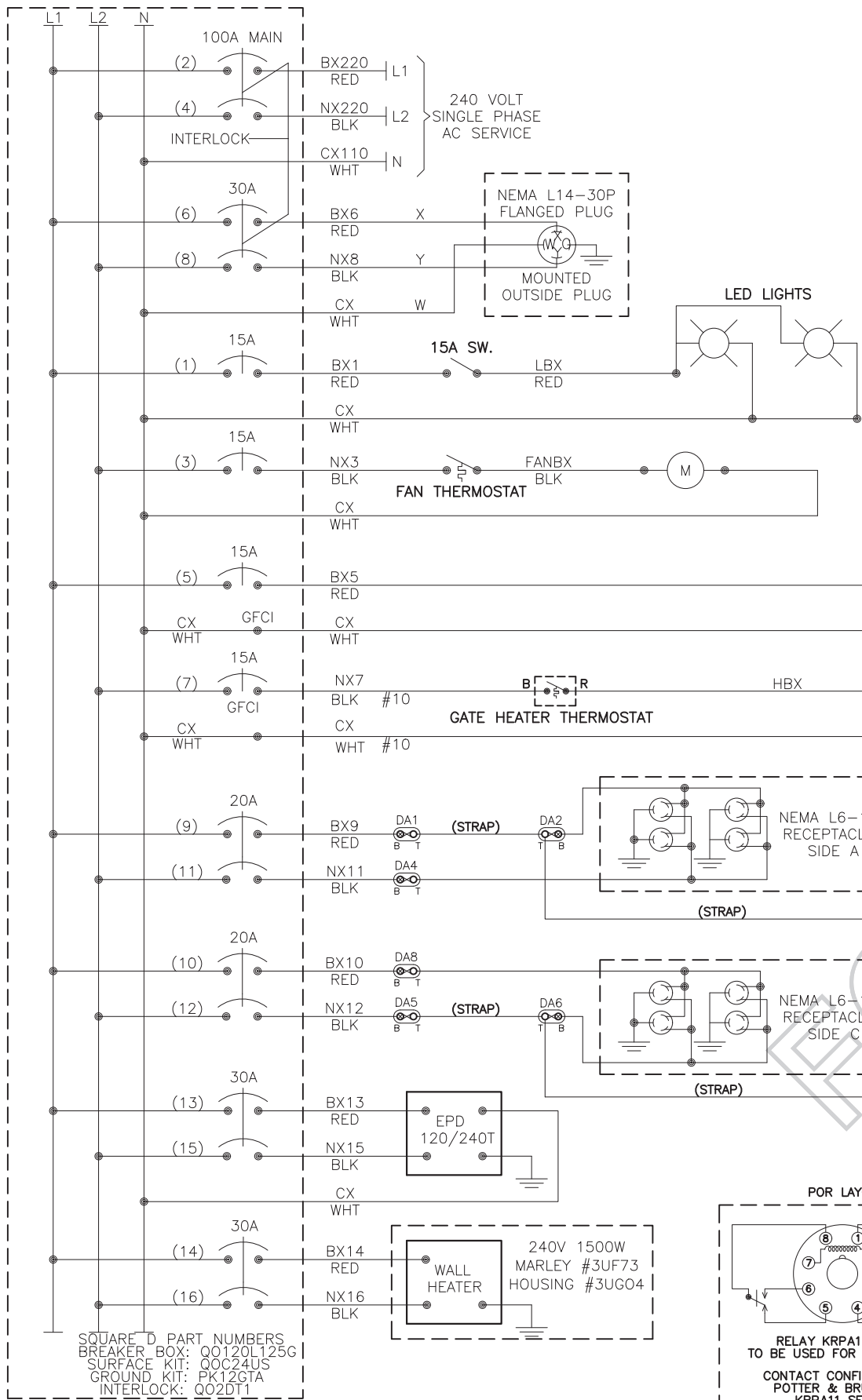
**Wheeling & Lake Erie  
Railway**

LOCATION			SR 99 (S RIDGE STREET) MONROEVILLE, OH 41.2412835,-82.7029734	
ORIGINAL DATE	01/24/2019	TITLE	BATTERY CHARGERS	
DESIGNER	CTC	SUB	HARTLAND	CTC NO. CN19016
DRAFTSMAN	CTC	RRMP	H - 60.52	SCALE 1"=2'
CHECKER	CTC	DOT NO.	473 647D	SHEET 18 of 23

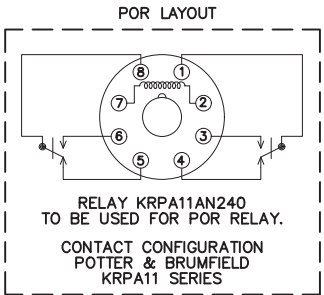
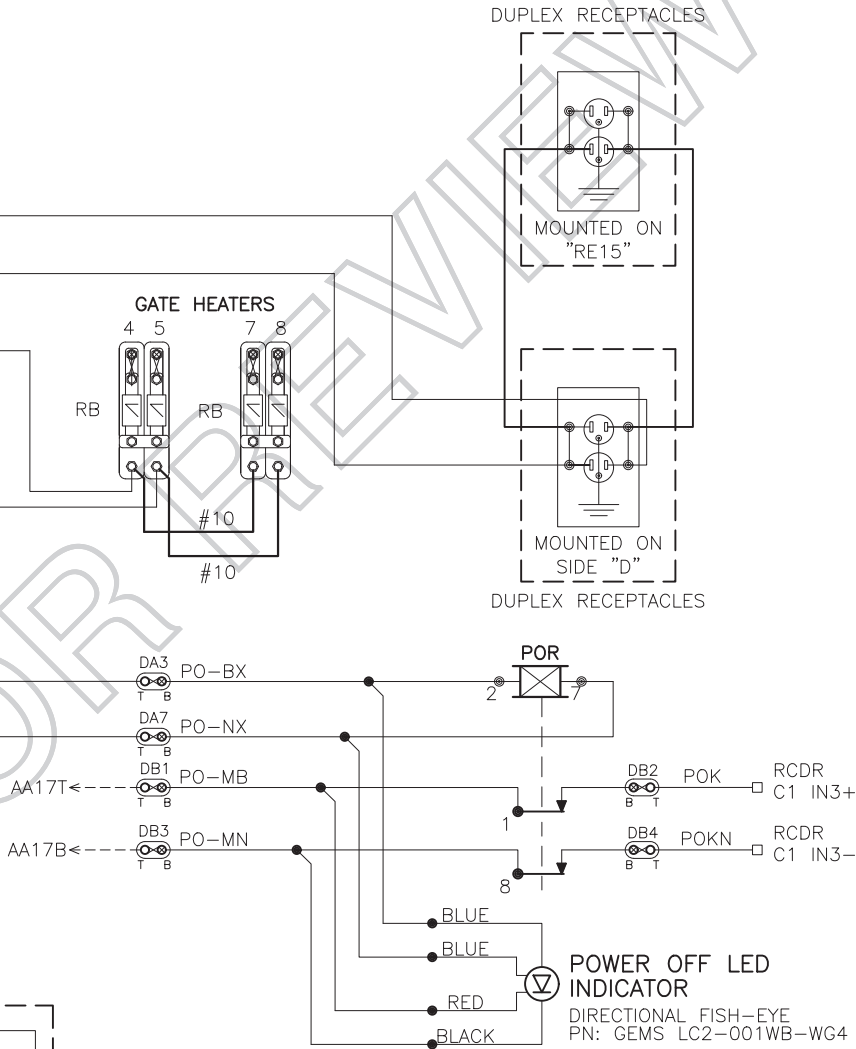
**W&LE**

REVISION  
BLOCK

CHANGE FROM TYPICAL: Y

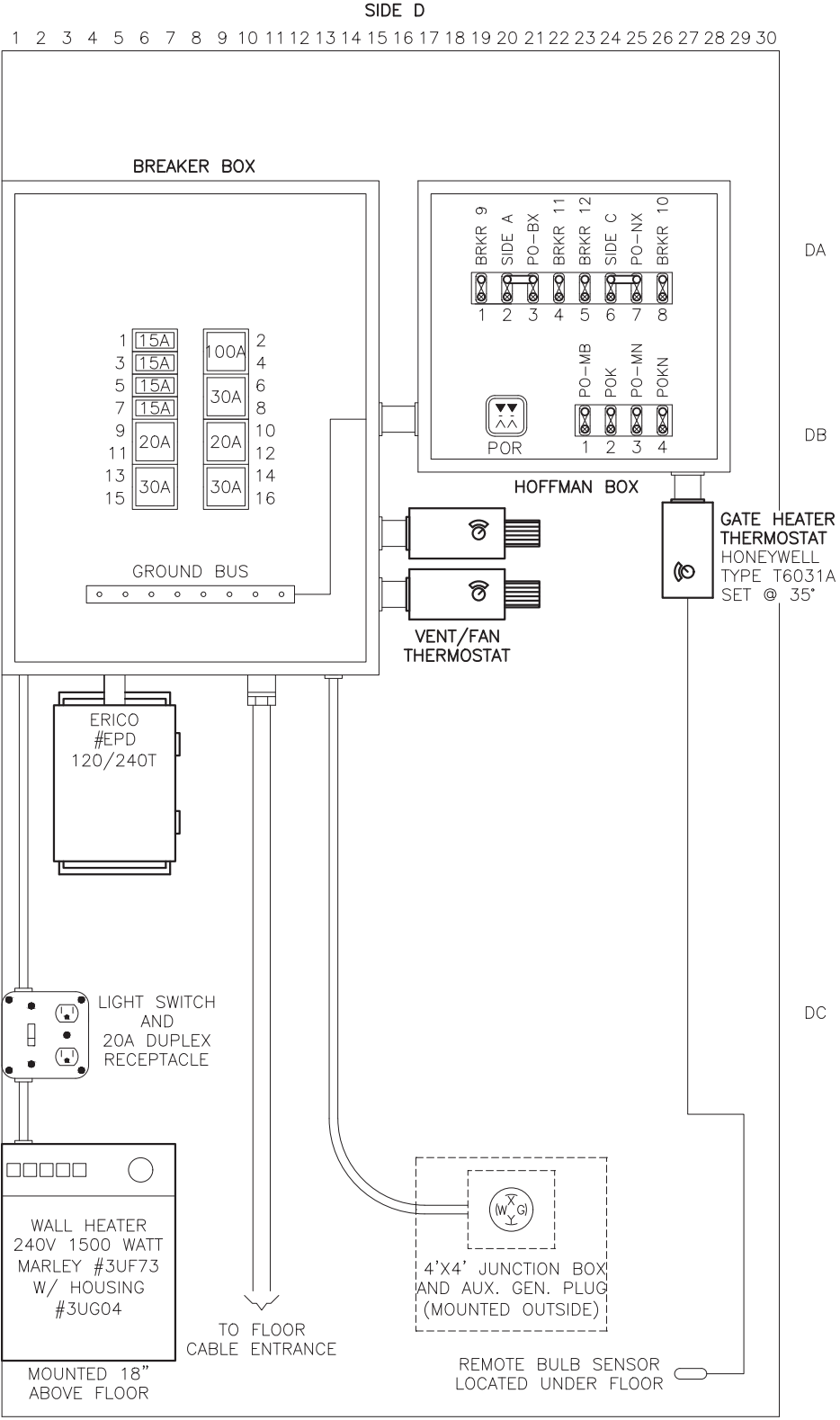


- NOTES:
- USE THE FOLLOWING COLOR CODE:  
GRN - GREEN - SAFETY EQUIPMENT GROUND  
WHT - WHITE - CX110 (NEUTRAL)  
BLK - BLACK - NX220 (L2)  
RED - RED - BX220 (L1)  
EXCEPTIONS TO THE ABOVE COLOR CODE ARE THE PRE-WIRED, SEALED ARRESTOR UNITS MOUNTED ON THE BREAKER BOX WHICH HAVE TWO BLACK AND ONE WHITE WIRE EACH.
  - MINIMUM WIRE SIZE:  
10 AMP - NO.14 AWG THHN OR THWN SOLID  
20 AMP - NO.12 AWG THHN OR THWN SOLID  
30 AMP - NO.10 AWG THHN OR THWN SOLID
  - GROUND FAULT INTERRUPT (GFCI) MUST BE USE ON ALL CIRCUITS SERVING CONVENIENCE OUTLETS AND ANY EQUIPMENT OUTSIDE THE BUNGALOW. RECEPTACLE MOUNTED GFCI MAY BE USE INSTEAD OF BREAKER TYPE.
  - ALL GROUND WIRES RUN TO BREAKER BOX GROUND BUS



- NOTE:
- WHEN AC IS ON LED IS ON
  - WHEN AC IS OFF LED FLASHES UNTIL BATTERY IS DISCHARGED.
  - WHEN AC IS OFF AND BATTERY IS DISCHARGED LED IS OFF.

CHANGE FROM TYPICAL: N

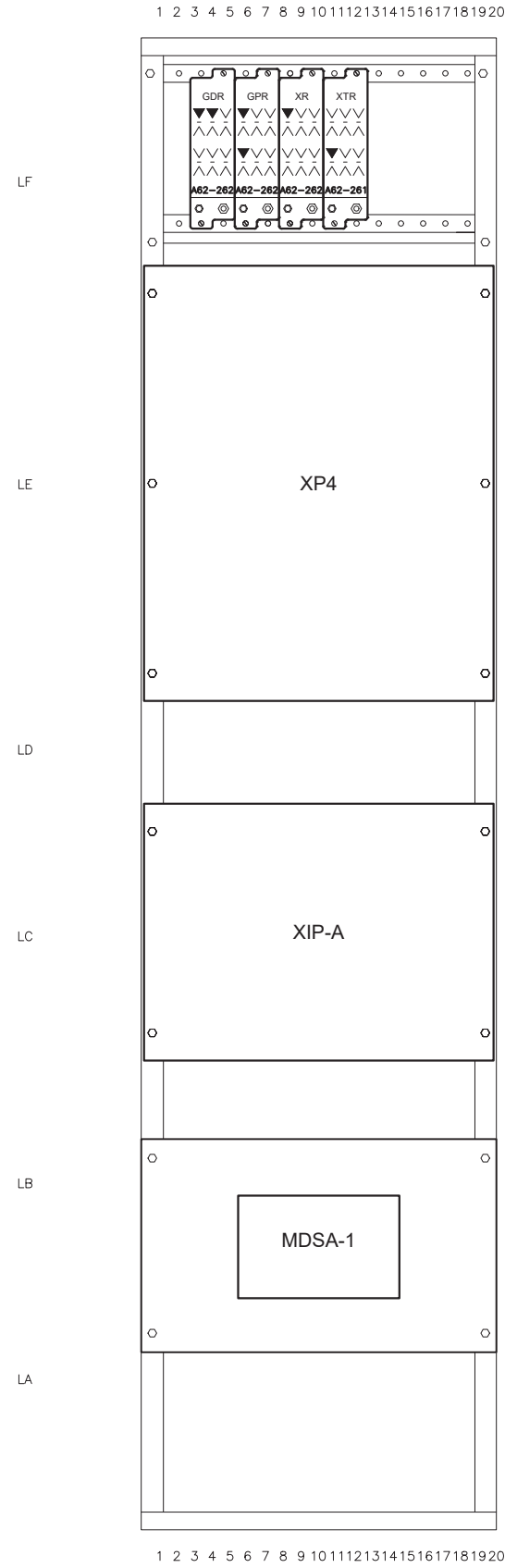


REVISION  
BLOCK

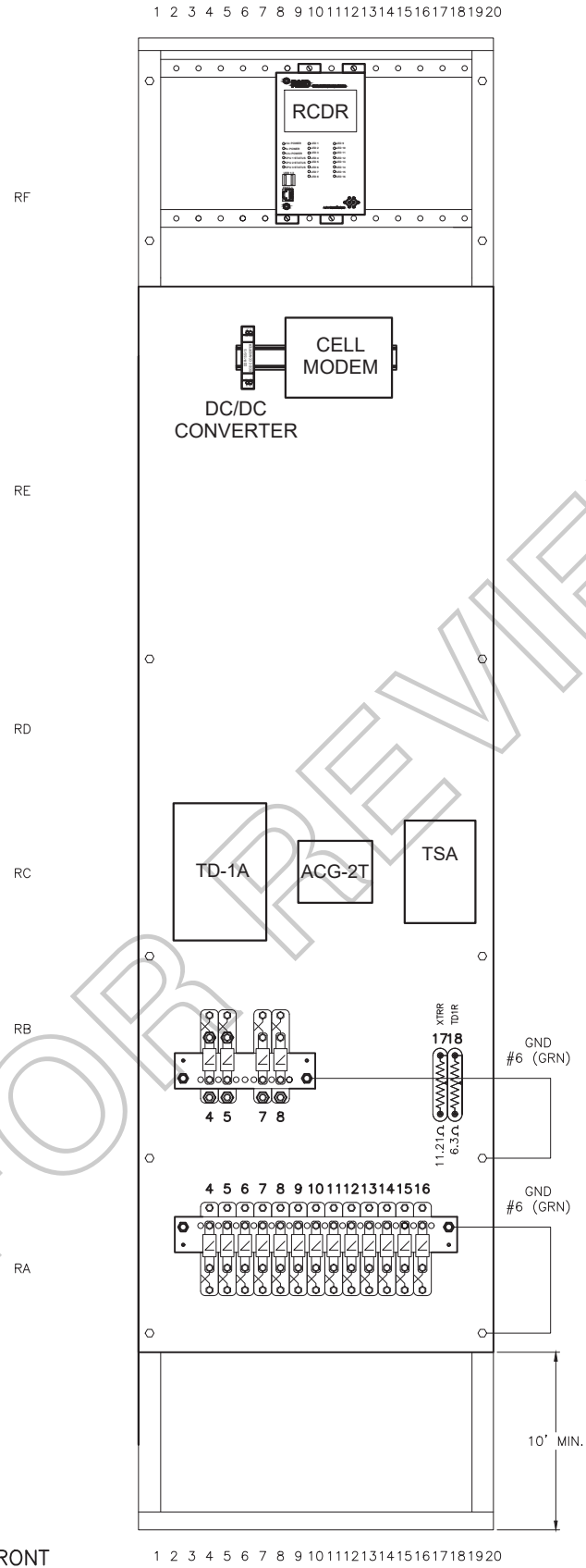
**W&LE**

**Wheeling & Lake Erie  
Railway**

LOCATION			SR 99 (S RIDGE STREET) MONROEVILLE, OH 41.2412835,-82.7029734		
ORIGINAL DATE	01/24/2019	TITLE	AC POWER DISTRIBUTION		
DESIGNER	CTC	SUB	HARTLAND	CTC NO.	CN19016
DRAFTSMAN	CTC	RRMP	H - 60.52	SCALE	1"=2'
CHECKER	CTC	DOT NO.	473 647D	SHEET	19 of 23



SIDE 'B' FRONT



▼ = CONTACT USED  
∨ = CONTACT NOT USED

RELAY CROSS REFERENCE	
GRS	SAFETRAN
A62-261	400010
A62-262	400000

10' MIN.

REVISION  
BLOCK

CHANGE FROM TYPICAL: Y

**W&LE**

**Wheeling & Lake Erie  
Railway**

LOCATION			SR 99 (S RIDGE STREET) MONROEVILLE, OH 41.2412835,-82.7029734		
ORIGINAL DATE	01/24/2019	TITLE	RACK FRONT VIEW		
DESIGNER	CTC	SUB	HARTLAND	CTC NO.	CN19016
DRAFTSMAN	CTC	RRMP	H - 60.52	SCALE	1"=2'
CHECKER	CTC	DOT NO.	473 647D	SHEET	20 of 23

BACK OF RIGHT SIDE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

RFB

REB

RDB

RCB

RBB

RAB



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

BACK OF LEFT SIDE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

LFB

LEB

LDB

LCB

LBB

LAB

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

SIDE 'B' BACK

XTR

XR

GPR

GDR

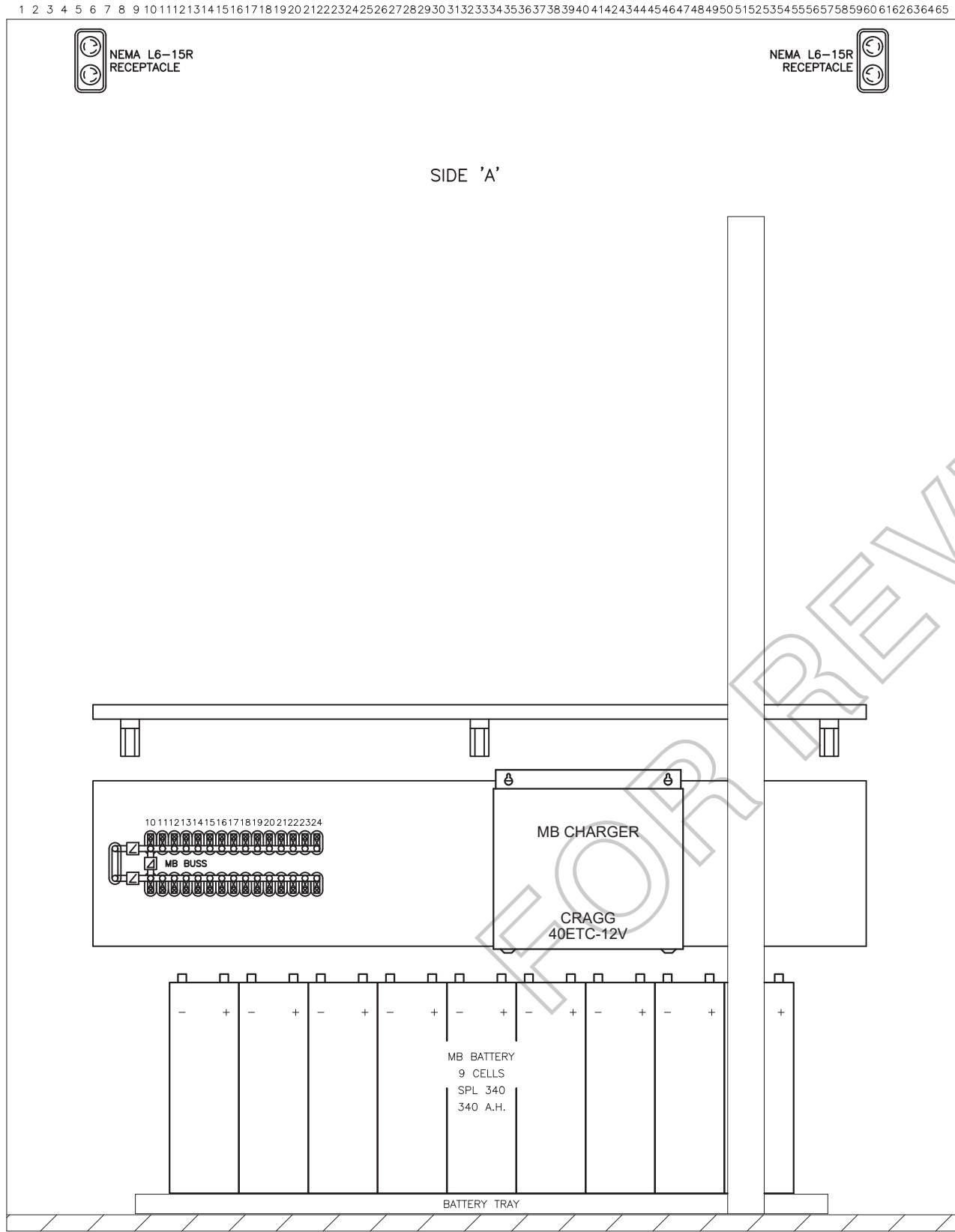
CHANGE FROM TYPICAL: Y

REVISION  
BLOCK

W&LE

Wheeling & Lake Erie  
Railway

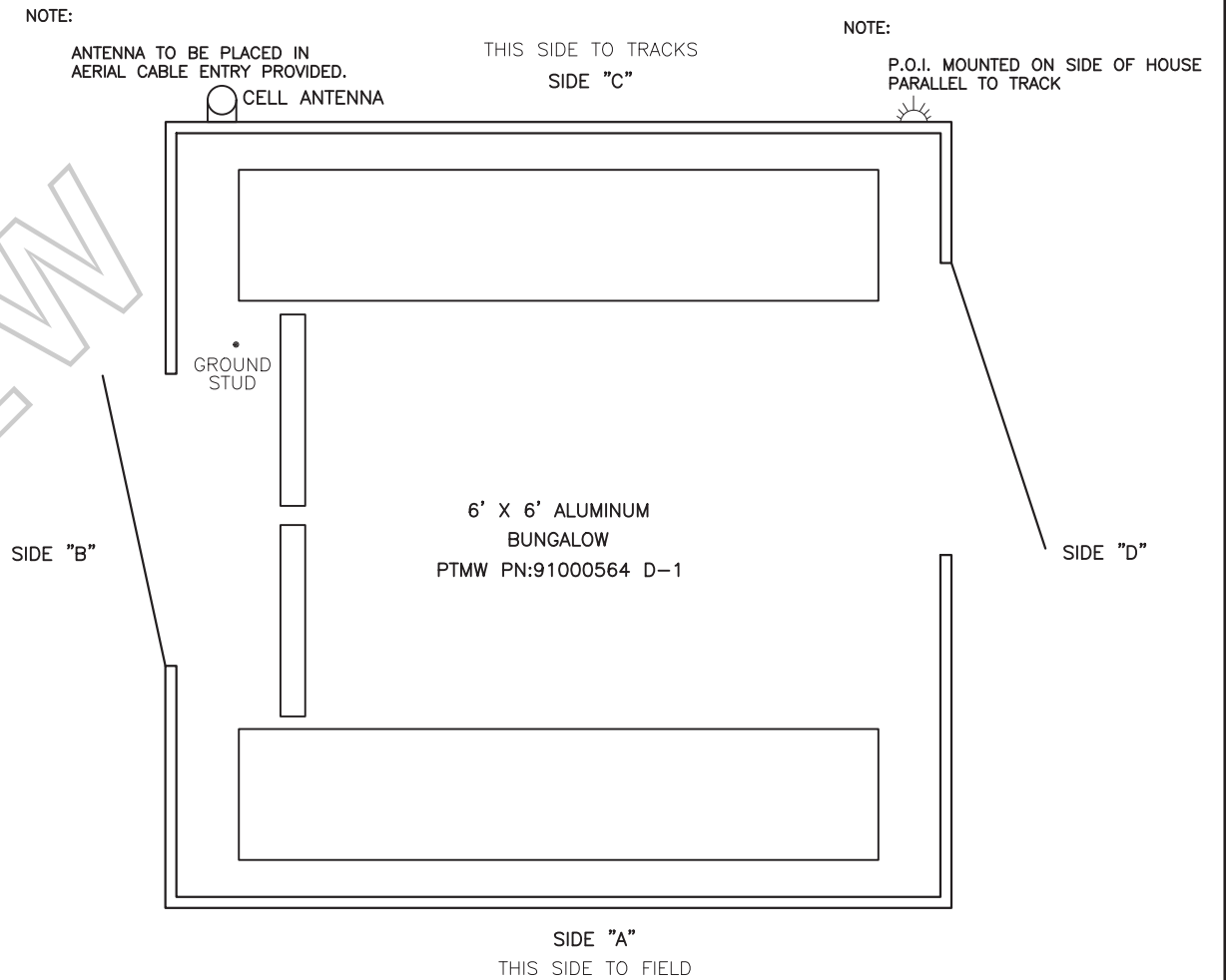
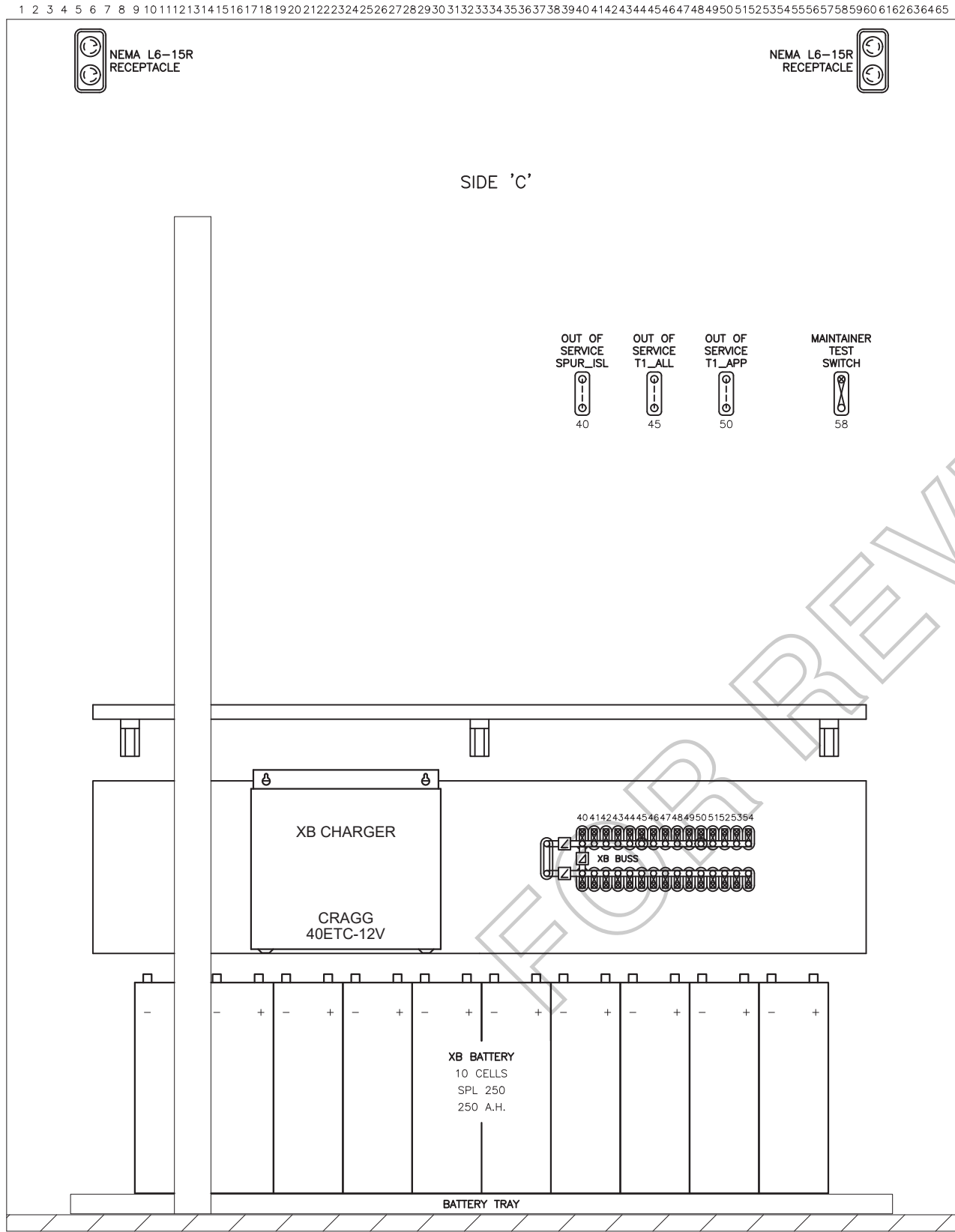
LOCATION		SR 99 (S RIDGE STREET) MONROEVILLE, OH 41.2412835,-82.7029734	
ORIGINAL DATE	01/24/2019	TITLE	RACK BACK VIEW
DESIGNER	CTC	SUB	HARTLAND
DRAFTSMAN	CTC	RRMP	H - 60.52
CHECKER	CTC	DOT NO.	473 647D
		CTC NO.	CN19016
		SCALE	1"=2'
		SHEET	21 of 23



REVISION BLOCK									

**W&LE**

<b>Wheeling &amp; Lake Erie Railway</b>		
LOCATION SR 99 (S RIDGE STREET) MONROEVILLE, OH 41.2412835,-82.7029734		
ORIGINAL DATE 01/24/2019	TITLE SIDE "A"	
DESIGNER CTC	SUB HARTLAND	CTC NO. CN19016
DRAFTSMAN CTC	RRMP H - 60.52	SCALE 1"=2'
CHECKER CTC	DOT NO. 473 647D	SHEET 22 of 23



REVISION  
BLOCK

CHANGE FROM TYPICAL: N

W&LE

Wheeling & Lake Erie  
Railway

LOCATION  
SR 99 (S RIDGE STREET)  
MONROEVILLE, OH  
41.2412835,-82.7029734

ORIGINAL DATE 01/24/2019

TITLE SIDE "C"

DESIGNER CTC

SUB HARTLAND

CTC NO. CN19016

DRAFTSMAN CTC

RRMP H - 60.52

SCALE 1"=2'

CHECKER CTC

DOT NO. 473 647D

SHEET 23 of 23

# WHEELING & LAKE ERIE RAILWAY COMPANY

Tim Andrews  
Signal & Communication Supervisor  
Tel. 330-767-7255

tandrews@wlerwy.com

100 East First Street  
Brewster, OH 44613  
Fax: 330-767-3213

April 9, 2020

Ohio Rail Development Commission  
Mr. James Tucker  
1980 West Broad Street, Room 2B  
Columbus, OH 43223

RE: Estimate for Railroad Crossing Warning System at SR99 DOT 473-647-D

Dear Mr. Tucker,

I am providing this revised estimate for the crossing package and installation at SR99. Award of the material package will be the result of a competitive bid; copies of the submitted quotes will be forwarded to your office when they are completed. Installation will be performed under our continuing construction agreement with CTC LLC. Crossing surface will be installed by W&LE forces. The sidewalks will be installed per the ORDC recommendation. This estimate does not include the cost for the City of Monroeville to relocate any overhead lines/poles that will be in the way of the new setup.

Engineering Services/Labor, CTC (breakout attached)	\$40,103.20
CTC Material Estimate	\$139,423.56
Fill Materials, transport, hauling	\$8,500.00
Preliminary Installation Services, Crosier	\$41,209.30
Electric Service, Emery	\$6,950.00
Electric Utility fees	\$5,500.00
WLE Direct Signal Labor	\$10,500.00
Galvanized signal foundations	\$1,587.00
Crossing Surface/Labor (installed by WLE)	\$110,000.00
TOTAL:	\$363,773.06

Please contact me if additional details are required.

Respectfully,



Tim Andrews

Notes: Direct purchase from Fabricated Metals, 60'galvanized gate foundation, \$529.00 ea.



## Rail Development Commission

Mike DeWine, Governor  
Jon Husted, Lt. Governor

Mark Policinski, Chair

February 19, 2020

Mr. Tim Andrews  
Wheeling & Lake Erie Railway  
100 E. First St.  
Brewster, Oh 44613

RE: Huron County, SR99/Ridge Street, DOT #473647D, PID#108606

Dear Mr. Andrews:

The plan dated January 24, 2019 and estimate dated February 13, 2020 for the referenced project has been reviewed and is acceptable. Wheeling & Lake Erie may proceed with soliciting bids for the proposed grade crossing warning system in accordance with the abbreviated plan. This authorization is made with the stipulation and understanding that the approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit.

A construction authorization will be sent once the bid documents have been received and approved. No field work may be started without a construction authorization from this office.

Sincerely,

James Tucker, Project Manager  
Ohio Rail Development Commission

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





# OHIO RAIL DEVELOPMENT COMMISSION

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

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

September 7, 2018

Mr. Tim Andrews  
Wheeling & Lake Erie  
100 East First St.  
Brewster Oh, 44613

RE: Huron County, SR99/Ridge St, DOT# 473647D, PID# 108606

Dear Mr. Andrews:

A diagnostic review was held at the above grade crossing on May 16, 2018. As a result, the devices will be upgraded to automatic flashing lights and roadway gates to include a cantilever. Make special note that sidewalk work should be anticipated and communication with the village is needed for sidewalk design.

Wheeling & Lake Erie (WE) is authorized to proceed with the site plans and cost estimates (PE) 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.

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](mailto:james.tucker@dot.ohio.gov), if you have any questions.

Sincerely,

Project Manager

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

Attachment: 1 (diagnostic review form)



[www.rail.ohio.gov](http://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

July 31, 2018

Wheeling & Lake Erie Railroad  
Mr. Tim Andrews  
Signals & Communications Supervisor  
100 E. First Street  
Brewster, Ohio 44613

Subject: Grade Crossing Warning Device Improvements  
Crawford County, SR 602-14.25/Kibler St., DOT# 001943M, PID 108511  
Crawford County, SR 4-19.61, DOT# 001936C, PID 108506  
Huron County, SR 99-14.43/Ridge St., DOT# 473647D, PID 108606

Dear Mr. Andrews:

Three (3) diagnostic reviews were conducted at the subject grade crossings on 5/14/2018 and 5/16/2018. As a result of these reviews, the devices will be upgraded to automatic flashing lights and roadway gates.

These projects shall be completed in compliance with Agreement No. 0001-A, dated September 17, 1990, entered into by the State of Ohio and Wheeling & Lake Erie Railroad (WE) and incorporated as if fully rewritten herein. The construction shall also meet the general terms and conditions under the Fixing America's Surface Transportation Act 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%) by ORDC. 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 WE 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 projects. WE 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 WE prior to ORDC issuing a PE authorization. PE will be submitted by WE to ORDC within ninety (90) days or other time specified by ORDC in the PE authorization. Construction will not be commenced by WE prior to ORDC issuing a construction authorization. Construction will be completed by WE within nine (9) months or other time specified in the time specified by ORDC in the construction authorization.

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



[www.rail.ohio.gov](http://www.rail.ohio.gov)

phone: 614.644.0306

IMPROVING RAIL TODAY FOR TOMORROW'S ECONOMY

Wheeling & Lake Erie Railroad:

By: 

Title: S&C Supervisor

Date: 8-21-18

CRA SR602 Kibler St. WE PID 108511 DOT#001943M  
CRA SR 4-19.61 PID 108506 DOT#001936C  
HUR SR 99-14.43 Ridge St PID 108606 DOT#473647D



## Diagnostic Review Team Survey

**Reason for Survey:**

(e.g. formula, accident, constituent, etc.)

Constituent

**Date:** 5/16/2018

### Location Data

Street or Road Name: Ridge Street

Route/Road Number (i.e. Twp., Co., SR or US) SR 99-14.43

US DOT No.: 473647D

County: HUR

Township:

City: (In or Near)

Village of Monroeville

Railroad Name: Wheeling & Lake Erie Railroad

Railroad Division:

Branch/Line Name:

Nearest RR Timetable Station: Monroeville

RR Milepost: 60.52

### On-Site Review Team

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

1. DON DAMRON, ORDC, 614 917 8466 don.damron@dot.ohio.gov
2. JASON SCHRAIBMAN ODOT 419-207-7028 jason.schraibman.dot.ohio.gov
3. Tim Andrews WLE 330-417-5541 tandrews@wlerwy.com
4. Jerry E. Boser PULO 419 234-5416 jerry.j.boser@puc.state.oh.us
5. Dustin Crabtree Monroeville Street Dept. 419-541-1428 streets@monroevilleohio.com
6. David Hamons Monroeville Electric Dept. 419-465-4149 monroelectric@monroevilleohio.com
7. TOM GRAY MONROEVILLE VILLAGE 419-465-2222 villageadm@monroevillevillage.com
8. \_\_\_\_\_
9. \_\_\_\_\_

### Existing Traffic Control Devices

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

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

	Initial Information (from database)	Revised
Number & dates of crashes in previous 5 years	0	
Hazard Ranking	1764	Date Run: 3/31/2018

**Railroad Data**

Railroad Characteristics	Initial Information (from database)	Revised
Total trains per day	9	HIGH / SEASONAL TRAFFIC
< 1 per day		
Day thru trains	3	
Night thru trains	4	
Daytime switching movements	2	
Nighttime switching movements		
Total number of tracks	2	
Number of main tracks	1	
Number of other tracks	Con. Trk	
Maximum train speed	40	40 MAX
Typical train speed	40	SPUR WOULD BE SLOWER
Amtrak		

If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table I) ☐ Yes ☒ No

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 WILE WILL FLAG IF TWO TRAINS

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 Monroeville	
<b>Roadway Characteristics</b>	<b>Initial Information (from database)</b>	<b>Revised</b>
Average daily traffic	2010 (2009)	3005 (2017)
Highway paved	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Roadway Surface: <input checked="" type="checkbox"/> Blacktop <input type="checkbox"/> Gravel <input type="checkbox"/> Concrete <input type="checkbox"/> Other _____		
Roadway width: 35 ft. 45 OUTBOUND/INBOUND NEAR CROSSING		
Number of highway lanes	2	
Urban or Rural	Rural	
Vehicle Speed: 35 MPH 45		
School Bus Operation: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes 5 Amount MULTIPLE ROUTES - 10AM/10PM		
Hazardous Materials Trucks: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes .08 Amount		
Shoulders: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		
Is the shoulder surfaced? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		
Is there existing guardrail along roadway in crossing vicinity? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		
Is stopping site distance adequate? (See Table 2) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, deficient approach(es) _____	

Quadrant _____ Curb and Gutter: <input type="checkbox"/> Functional (Curb height = 4" or more) <input type="checkbox"/> Non-functional (Curb height = Less than 4") <input checked="" type="checkbox"/> None	Quadrant _____ Curb and Gutter: <input type="checkbox"/> Functional (Curb height = 4" or more) <input type="checkbox"/> Non-functional (Curb height = Less than 4") <input checked="" type="checkbox"/> None
Pedestrians: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <i>CYCLISTS + PEOS</i>	
Is sidewalk present? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <i>11 11</i>	
Is there a nearby intersection that could cause queuing over the crossing? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If yes, Distance _____ Is this intersection signalized? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Are the signals currently interconnected with the existing crossing warning devices? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Is there a 'Do not Stop on Track' sign? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Is a roadway improvement project (e.g. widening, turn lanes, nearby new or upgraded traffic signal, sidewalk) planned at or near this location in the foreseeable future? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If yes, Improvement type _____ Lead Agency _____ Timeline/completion - _____	
Is it the consensus of the Diagnostic Review Team that this is a potential closure project? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Explain reasons: _____	
<b>Type of Development</b>	
<input type="checkbox"/> Open Space <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Residential	<input type="checkbox"/> Institutional <input checked="" type="checkbox"/> Commercial Location of nearby schools: <i>MULTIPLE LOCATIONS IN ALL DIRECTIONS</i>
<b>Utility Information</b>	
Is commercial power available? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Utility Provider (Company Name) <i>MONROEVILLE MUNICIPAL ELECTRIC</i> Phone Number _____ Nearest Available Power Source <i>EXISTING POWER DROP IN SE QUAD</i>	
What other utilities are present? (add locations to sketch) <input type="checkbox"/> Gas <input type="checkbox"/> Cable <input type="checkbox"/> Telephone <input type="checkbox"/> Fiber Optic Cable <input type="checkbox"/> Petroleum <input type="checkbox"/> Water <input checked="" type="checkbox"/> Sanitary Sewer <input type="checkbox"/> Other _____	
Is(are) there potential utility conflict(s) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
Comments: <ul style="list-style-type: none"> <li>• OH POWER POLE IN NW QUAD (w STREET LIGHT) MAY NEED TO BE RELOCATED. - TBD IN DESIGN PROCESS.</li> <li>• UG WATER LINE ON EAST SIDE OF ROAD.</li> <li>• UG GAS LINE ON EAST SIDE OF ROAD.</li> </ul>	

## 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:

ROAD ROW TO EDGE OF SIDEWALKS 70' +  
RR?

Culverts / Drainage / Ballast Conditions:

Roadway and/or Sidewalks:

LED - AWS PLANNED BY VILLAGE  
SIDEWALKS ID BY VILLAGE TO PROVIDE CONNECTION TO  
BIKE PATH.

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

ISLAND ONLY CIRCUIT ON SPUR

Environmental:

Other:

GRAVEL AREA IN SW QUAD IS NOT A DESIGNATED  
ROADWAY AND MAY NEED TO BE BLOCKED - OFF.

## Diagnostic Team Recommendations

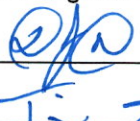


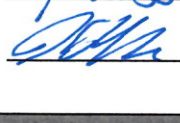
	Quadrants Needed
<input checked="" type="checkbox"/> Install/upgrade active devices	
<input type="checkbox"/> Automatic Flashing Lights (AFLS)	
<input type="checkbox"/> AFLS / Cants	
<input type="checkbox"/> AFLS / Gates	
<input checked="" type="checkbox"/> AFLS / Gates / Cants	ONE CANT IN NW QUAD ONLY
<input checked="" type="checkbox"/> Bells / number	TWO BELLS IF TWO SIDEWALKS.
<input type="checkbox"/> Upgrade circuitry / type	
<input type="checkbox"/> Sidelights	
<input type="checkbox"/> Guardrail Needed	
<input type="checkbox"/> Install/Replace curb	
<input type="checkbox"/> Bungalow placement & offset from rail & highway	SW QUAD PREFERRED
<input type="checkbox"/> Other (define)	

### Comments:

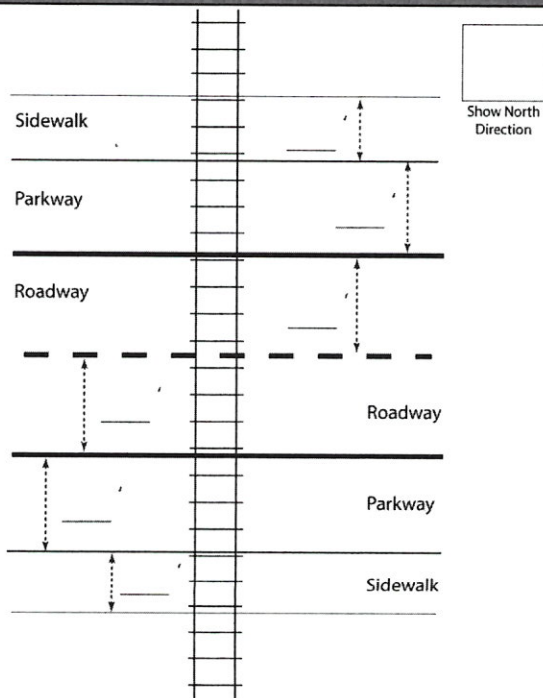
LXG PROJECT TO INCLUDE SIDEWALK(S) IF ARRANGEMENTS CAN BE ESTABLISHED WITH RAILROAD AND VILLAGE INCLUDING FUNDING ARRANGEMENT WITH ORDC.

- ☐ Install/upgrade traffic signal preemption
- ☐ No improvements needed
- ☐ Other (define) UTILITY POLES IN NW & SE QUADS TO BE RELOCATED AS NEEDED BY VILLAGE.

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

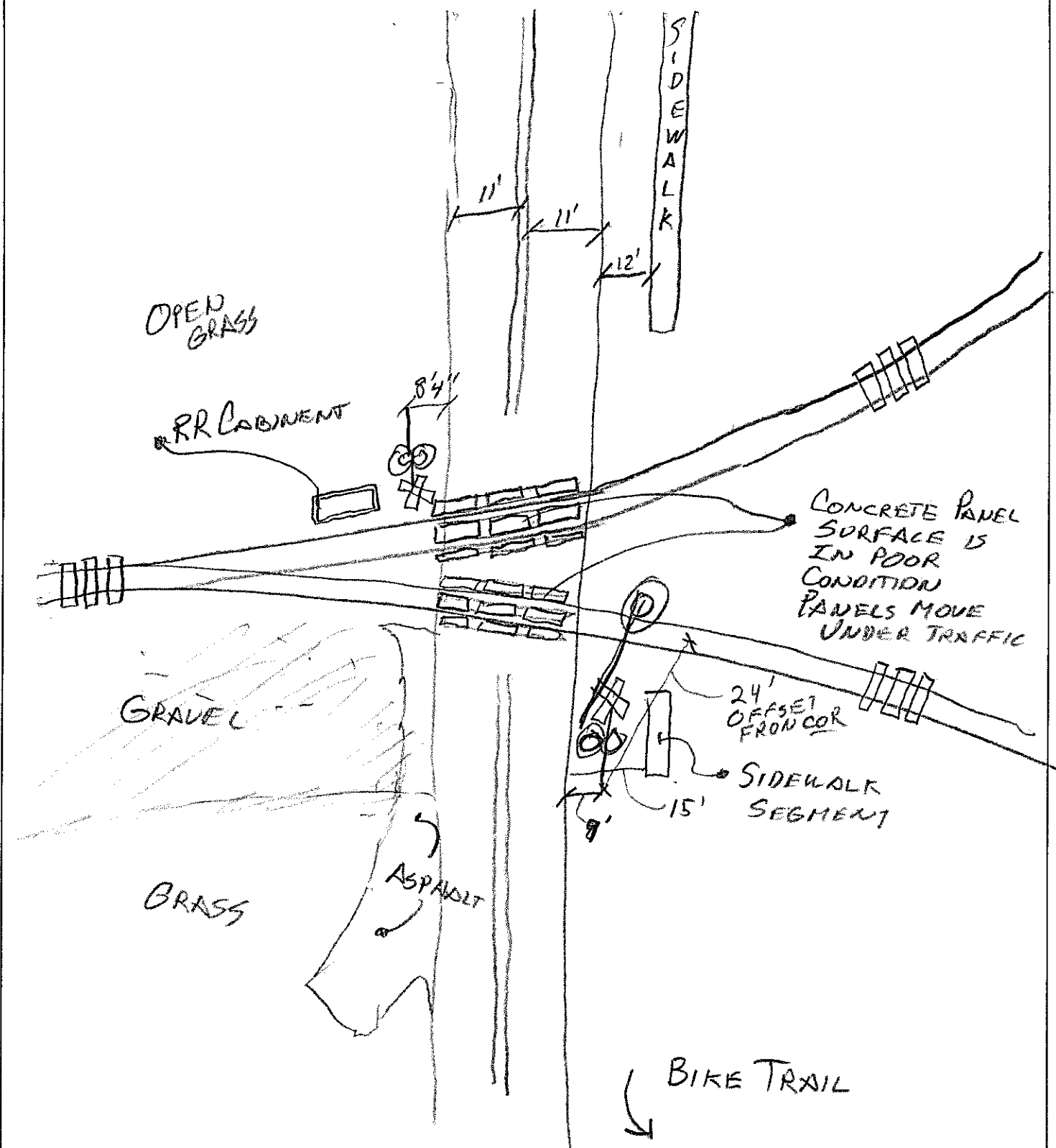


  



## Field Dimensions



- PROJECT TO EXPLORE DESIGN+ INSTALLATION OF SIDEWALK SURFACE AT LEAST ON ONE SIDE OF ROAD. (EAST SIDE),
- VILLAGE TO SUBMIT SUPPLEMENTAL REQUEST TO FUND LED AWS.
- ODOT TO RELOCATE BIKE TRAIL SIGN ON SB NORTH SIDE OF TRACKS
- CONCRETE PAVEMENT SURFACE IN GOOD CONDITION
- RR TO CONSIDER DRIVEWAY ISSUE IN SW QUAD.

# Field Sketch



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

Sketch by: \_\_\_\_\_

Table 1

## Clearing Sight Distances

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

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

## Notes:

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

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

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

Table 2

## Stopping Sight Distances

Highway Vehicle Speed	Distance (dH) Along Roadway from Crossing (ft)
0	n/a
5	50
10	70
15	105
20	135
25	180
30	225
35	280
40	340
45	410
50	490
55	570
60	660
65	760
70	865

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

## Notes:

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

Distances indicated are for 65-ft double bottom semi-tractor trailers on dry level pavements.

Stopping Sight Distance is to be measured on each roadway approach to crossing from stop bar.

RESTRICTED  
SPEED  
ON  
SPUR  
TRACK

**This foregoing document was electronically filed with the Public Utilities**

**Commission of Ohio Docketing Information System on**

**5/7/2020 8:15:10 AM**

**in**

**Case No(s). 20-0977-RR-FED**

Summary: Application In the Matter of a Request for the Installation of New Active Warning Devices at the Wheeling & Lake Erie Railroad Grade Crossing, DOT# 473-647D, at SR 99/ Ridge Street in Huron County, Ohio. electronically filed by Mrs. Jill A Henry on behalf of PUCO/Rail Division