

Memo

To: Docketing Division
From: George Martin, Grade Crossing Planner, Rail Division *gmd*
Re: In the matter of the authorization of the Wheeling & Lake Erie Railway to install active grade crossing warning devices in Wayne County
Date: July 23, 2012

The Ohio Rail Development Commission (ORDC) has authorized funding for the Wheeling & Lake Erie Railway (WE) to install mast mounted flashing lights and roadway gates at Eby Rd/CR 73, Greene Township, DOT# 473203K, and the adjacent crossing at Fox Lake Rd/TR 221, DOT# 473202D. The crossings were surveyed on February 16, 2012 due to their hazard ranking, and were found to warrant the upgrades.

The projects will be paid for with federal funds, and are actual cost. As the plans and estimates have already been submitted and approved, staff requests an Entry with completion of the projects in nine months. Construction may commence at once. Staff requests that the following language be incorporated in the Entry:

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

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

A suggested case coding and heading would be:

PUCO Case No. 12- *2142* -RR-FED In the matter of the authorization of the Wheeling & Lake Erie Railway to install active grade crossing warning devices in Wayne County

C: Legal Department

Please serve the following parties of record.

RECEIVED-DOCKETING DIV
2012 JUL 23 PM 2:42
PUCO

Ms Susan Kirkland

Ohio Rail Development Commission

1980 W Broad St, 2nd Floor

Columbus, Oh 43223

Mr Dan Reinsel

Wheeling & Lake Erie Railway

100 East First St

Brewster, Oh 44613

Mr Jeff Sparr

Wayne County Engineers Office

3151 W Old Lincoln Way

Wooster, Oh 44691-4870

Mr Homer Hostetler

Greene Township Trustees

4781 Egypt Rd

Smithville, Oh 44677

AEP

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

TO: Leah Thomas-Dalton, Rail Division Chief, PUCO
FROM: Susan Kirkland, Manager, Safety Section, ORDC
BY: Joe Reinhardt, Project Manager, ORDC 
SUBJECT: Wayne County, Eby and Fox Lake Road
DOT 473203K and 473202D, PID 93072
DATE: July 23, 2012

The Public Utilities Commission of Ohio (PUCO) established a diagnostic survey at the subject location on Eby and Fox Lake Roads. The Ohio Rail Development Commission (ORDC) attended the review. The Diagnostic Team recommended the improvement of warning devices to flashing lights and roadway gates. Copies of the diagnostic review form and the plan and estimate are attached.

PE has already been provided by the railroad. ORDC approves the site plans and estimates as provided. Please issue a construction-only order for the project outlined above. This construction authorization is made with the stipulation and understanding that any field work needs prior approval before the 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: George Martin, PUCO
ORDC Project Manager (file)



OHIO RAIL DEVELOPMENT COMMISSION

1980 West Broad Street, Columbus OH 43223

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

July 23, 2012

Mr. Dan Reinsel
Wheeling & Lake Erie Railway
100 East First Street
Brewster, Ohio 44613

RE: Wayne County, Eby and Fox Lake Roads
DOT 473203K and DOT 473202D, PID# 93072

Dear Mr. Reinsel:

The plan and estimate dated July 17, 2012, for the referenced project has been reviewed and is acceptable. WLE may proceed with the construction of the proposed grade crossing warning system in accordance with the abbreviated plan. This authorization is made with the stipulation and understanding that the approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit. Reimbursement of eligible actual cost is limited to \$332,873.61. 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 Joseph Reinhardt, ORDC, email joe.reinhardt@dot.state.oh.us and to the Public Utilities Commission of Ohio at George.martin@puc.state.oh.us. 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.
3. WLE's project foremen will notify Joe Reinhardt at joe.reinhardt@dot.state.oh.us (email) of any changes in the scope of work, cost overruns, material changes, etc. which are not included in the approved plan and estimate and secure approval of same before the work is performed.
4. WLE will furnish two (2) copies of each partial bill to ORDC. Please find the enclosed Encumbrance Estimate to reference when billing.



www.rail.ohio.gov

phone: 614.644.0306

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5. 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.

Thank you for your assistance with these matters.

Sincerely,

A handwritten signature in black ink, appearing to read "Joseph N. Reinhardt", with a stylized flourish at the end.

Joseph Reinhardt
Project Manager

C: Leah Thomas-Dalton, Rail Division Chief, PUCO
George Martin, PUCO, Grade Crossing Planner
ORDC (file)



Diagnostic Review Team Survey

Date: 2/16/2012

Location Data

Street or Road Name: Eby Road			
Route/Road Number (i.e. Twp., Co., SR or US) CR 73		US DOT No.: 473203K	
County: Wayne (WAY)	Township:	City: (In or Near) Smithville	
Railroad Name: Wheeling & Lake Erie	Railroad Division:	Branch/Line Name: MAIN	
Nearest RR Timetable Station: Douglas		RR Milepost: 115.7	

On-Site Review Team

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

1. Joe Reinhardt - ORDC - 614-580-7728 - joe.reinhardt@dot.state.oh.us

2. George Martin - PUCO - 614.752.9107 - George.Martin@puc.state.oh.us

3. DAN REINSEL WLE 330-767-7202 Dreinsel@WLE.RWY.COM Dan R

4. Jeff Sparr (330) 287-5500 Wayne County Engineer

5. _____
6. _____
7. _____
8. _____
9. _____

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	Good
Crossbucks	☒ Yes	☐ No	2 w/ Yield
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	

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	378	Date Run: 2/2/2012
Railroad Data		
Railroad Characteristics	Initial Information (from database)	Revised
Total trains per day	8	
< 1 per day		
Day thru trains	4	
Night thru trains	4	
Daytime switching movements	0	
Nighttime switching movements	0	
Total number of tracks		
Number of main tracks	1	
Number of other tracks	0	
Maximum train speed	50	
Typical train speed		
Amtrak		
If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table 1) ☒ 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		
Are there other track(s) crossing this same roadway within 100 ft of this crossing? ☐ Yes ☒ No		
If yes, Crossing DOT # (if different) <u>413202D - Fox Lake Rd</u>		
If yes, distance <u>145</u> (take measurement between track centerlines at closest point along roadway)		
Roadway Data		
Local Highway Authority:		Wayne County
Roadway Characteristics	Initial Information (from database)	Revised
Average daily traffic	990 (2008)	
Highway paved	☒ Yes ☐ No	☐ Yes ☐ No
Roadway Surface: ☒ Blacktop ☐ Gravel ☐ Concrete ☐ Other _____		
Roadway width: <u>18</u> ft.		
Number of highway lanes	2	
Urban or Rural	Rural	
Vehicle Speed: <u>55</u> MPH		
School Bus Operation: ☒ No ☐ Yes _____ Amount		
Hazardous Materials Trucks: ☐ No ☒ Yes _____ 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 <u>NW</u> Curb and Gutter: ☐ Functional (Curb height = 4" or more) ☐ Non-functional (Curb height = Less than 4") ☒ None	Quadrant <u>SE</u> Curb and Gutter: ☐ Functional (Curb height = 4" or more) ☐ Non-functional (Curb height = Less than 4") ☒ 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 _____ Lead Agency _____ Timeline/completion _____	
Is it the consensus of the Diagnostic Review Team that this is a potential closure project? ☒ No ☐ Yes Explain reasons: _____	
Type of Development	
☒ Open Space ☐ Institutional ☐ Industrial ☐ Commercial ☐ Residential	Location of nearby schools: _____
Utility Information	
Is commercial power available? ☐ No ☒ Yes Utility Provider (Company Name) <u>AEP</u> Phone Number _____ Nearest Available Power Source <u>At Xing Site</u> What other utilities are present? _____ (add locations to sketch)	
Is(are) there potential utility conflict(s) ☐ Yes ☐ No ☒ Unknown Comments: _____	

Potential Red Flags / Project Challenges

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

Crossing Consolidation or Closure:

Real Estate or ROW:

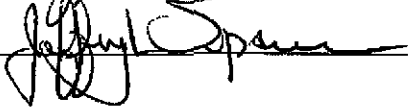
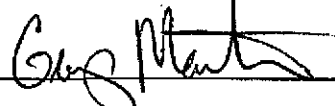
Culverts / Drainage / Ballast Conditions:

Roadway and/or Sidewalks:

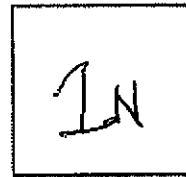
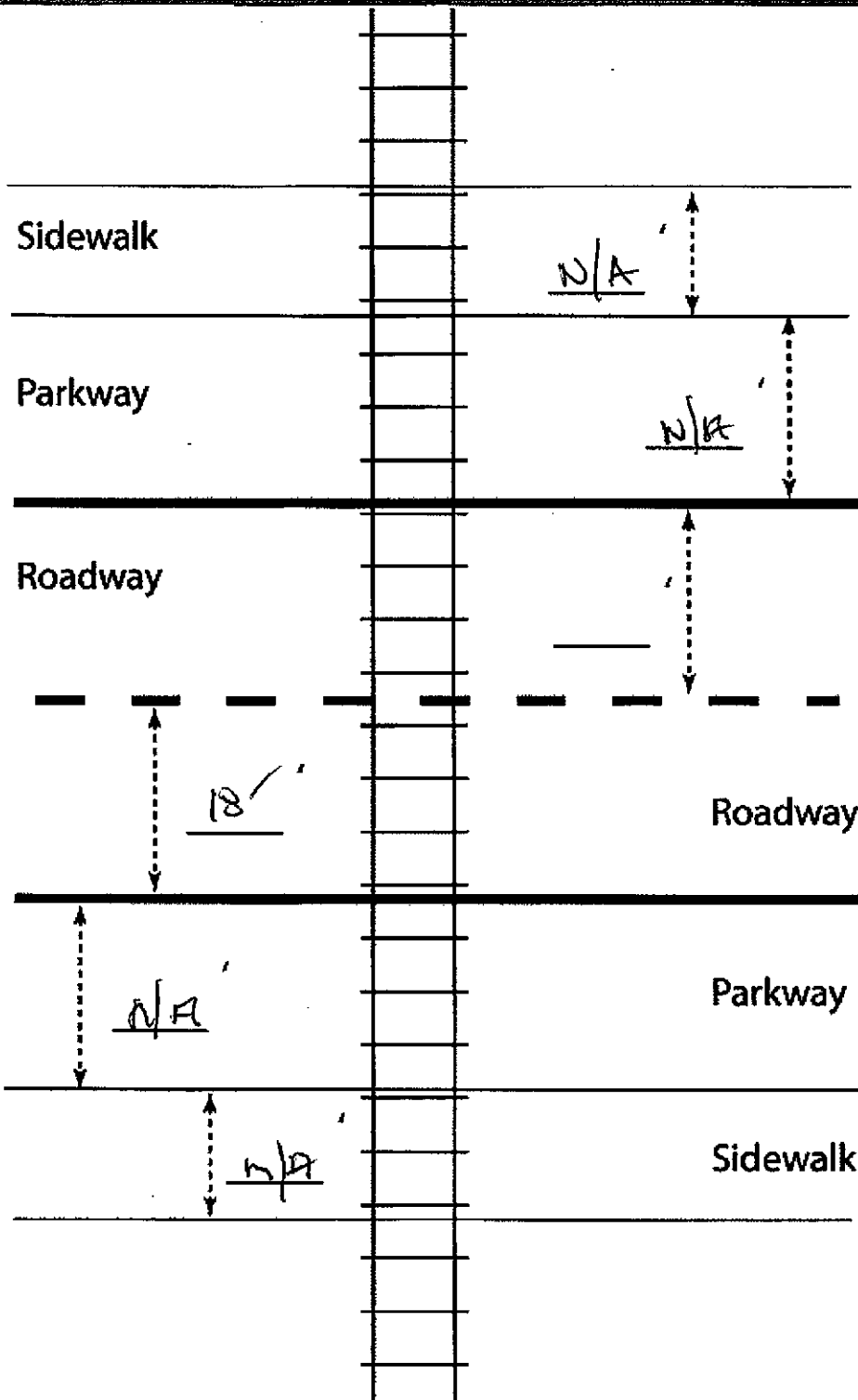
Circuitry (e.g. reaches out to other crossings, specific needs, etc.):

Environmental:

Other:

Diagnostic Team Recommendations	
	Quadrants Needed
☒ Install/upgrade active devices	
☐ Automatic Flashing Lights (AFLS)	
☐ AFLS / Cants	
☒ AFLS / Gates	SE & NW
☐ AFLS / Gates / Cants	
☒ Bells / number	ONE
☐ Upgrade circuitry / type	
☐ Sidelights	
☐ Guardrail Needed	
☐ Install/Replace curb	
☒ Bungalow placement & offset from rail & highway	Shared w/ Fox Lake Project
☐ Other (define)	
Comments:	
☐ 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):     	

Field Dimensions



Show North
Direction

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

Measurements by: JR

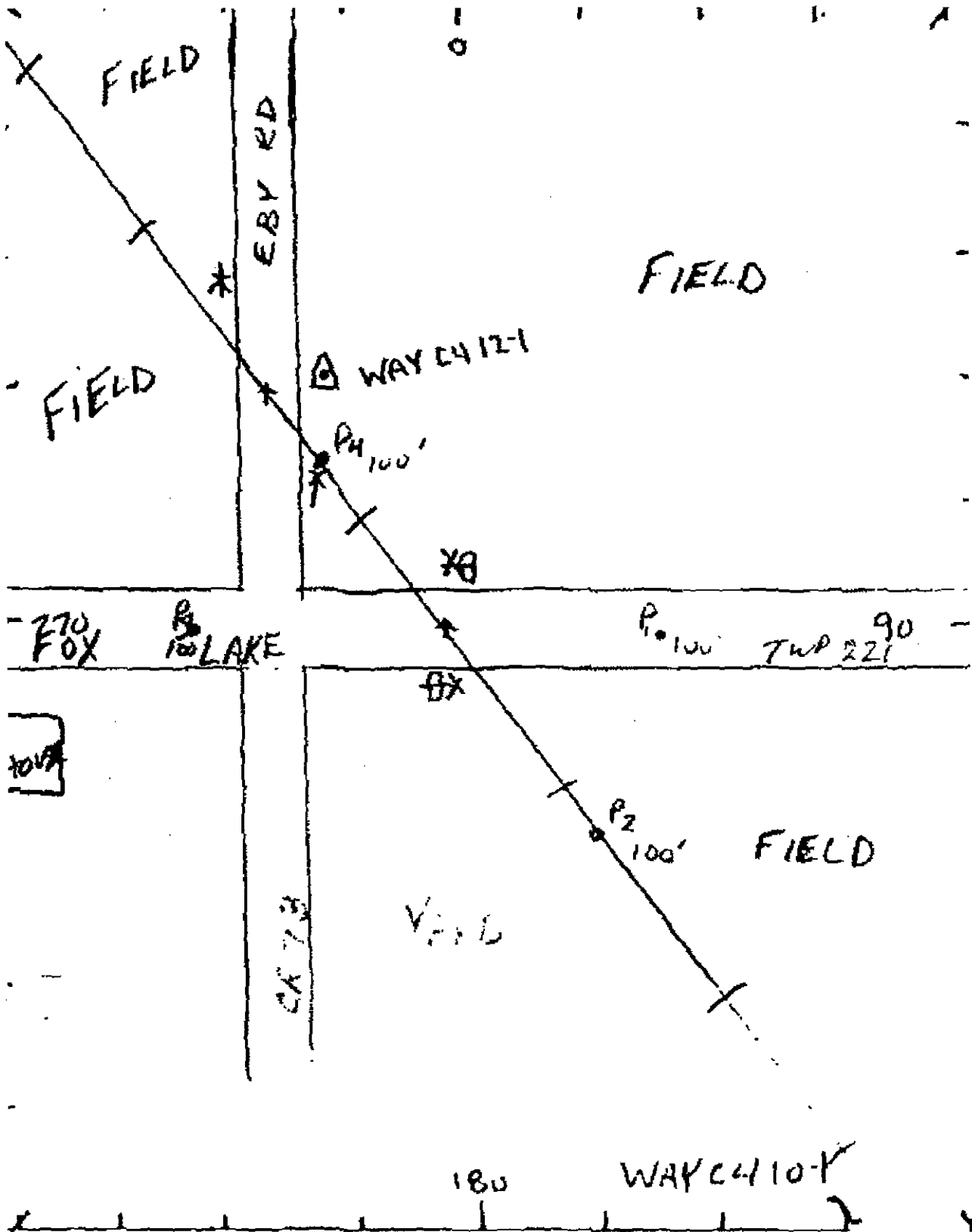


TABLE 1**Clearing Sight Distances**

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.



Diagnostic Review Team Survey

Date: 2/16/2012

Location Data

Street or Road Name: Fox Lake Road			
Route/Road Number (i.e. Twp., Co., SR or US) TR 221		US DOT No.: 473202D	
County: Wayne (WAY)	Township: Green Twp	City: (In or Near) Smithville	
Railroad Name: Wheeling & Lake Erie	Railroad Division:	Branch/Line Name: MAIN	
Nearest RR Timetable Station: Douglas		RR Milepost: 115.72	

On-Site Review Team

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

1. Joe Reinhardt - ORDC - 614-580-7728 - joe.reinhardt@dot.state.oh.us

2. George Martin - PUCO - 614.752.9107 - George.Martin@puc.state.oh.us

3. DAN REINSEL WLE 330-767-7202 dreinsel@wlerwy.com Dan R

4. Jeff Dmuff 330-464-2602 simhoff@imhoffmc.com

5. Homer Hosteller - Greave Twp Trustee

Existing Traffic Control Devices

Type of Warning Devices	Installed?		Quantity/Comments
Advance Warning Signs (condition?)	☒ Yes	☐ No	TWO
'Stop' Signs	☐ Yes	☒ No	
'Stop Ahead' Signs	☐ Yes	☒ No	
Pavement Markings (condition?)	☐ Yes	☒ No	
Crossbucks	☒ Yes	☐ No	Two w/ Yield
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	

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	378 583	Date Run: 2/2/2012
Railroad Data		
Railroad Characteristics	Initial Information (from database)	Revised
Total trains per day	8	
< 1 per day		
Day thru trains	4	
Night thru trains	4	
Daytime switching movements	0	
Nighttime switching movements	0	
Total number of tracks		
Number of main tracks	1	
Number of other tracks	0	
Maximum train speed	40	
Typical train speed		
Amtrak		
If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table 1) ☒ 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		
Are there other track(s) crossing this same roadway within 100 ft of this crossing? ☐ Yes ☒ No		
If yes, Crossing DOT # (if different) 473203K - Hwy RQ		
If yes, distance 145 (take measurement between track centerlines at closest point along roadway)		
Roadway Data		
Local Highway Authority:		Green Twp
Roadway Characteristics	Initial Information (from database)	Revised
Average daily traffic	542 (2008)	
Highway paved	☒ Yes ☐ No	☐ Yes ☐ No
Roadway Surface:	☒ Blacktop ☐ Gravel ☐ Concrete ☐ Other _____	
Roadway width:	10 ft.	
Number of highway lanes	2	
Urban or Rural	Rural	
Vehicle Speed:	____ MPH	
School Bus Operation:	☒ No ☐ Yes _____ Amount	
Hazardous Materials Trucks:	☐ No ☒ Yes _____ 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 <u>SW</u> Curb and Gutter: ☐ Functional (Curb height = 4" or more) ☐ Non-functional (Curb height = Less than 4") ☒ None	Quadrant <u>NE</u> Curb and Gutter: ☐ Functional (Curb height = 4" or more) ☐ Non-functional (Curb height = Less than 4") ☒ 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 <u>25 ft - Stop sign on Fox Lake & Eby Rd doesn't have Stop Sign</u> 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 _____ Lead Agency _____ Timeline/completion _____	
Is it the consensus of the Diagnostic Review Team that this is a potential closure project? ☒ No ☐ Yes Explain reasons: _____	
Type of Development	
☒ Open Space ☐ Industrial ☐ Residential	☐ Institutional ☐ Commercial Location of nearby schools: _____
Utility Information	
Is commercial power available? ☐ No ☒ Yes Utility Provider (Company Name) <u>AEP</u> Phone Number _____ Nearest Available Power Source <u>At Xing Site</u> What other utilities are present? _____ (add locations to sketch)	
Is(are) there potential utility conflict(s) ☐ Yes ☐ No ☒ Unknown Comments: _____	

Potential Red Flags / Project Challenges

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

Crossing Consolidation or Closure:

Real Estate or ROW:

Culverts / Drainage / Ballast Conditions:

Roadway and/or Sidewalks:

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

Environmental:

Other:

Diagnostic Team Recommendations

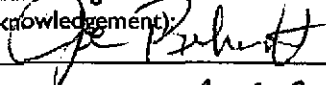
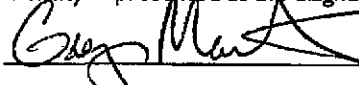
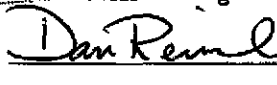
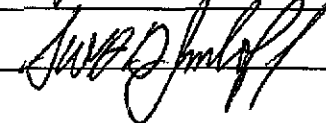
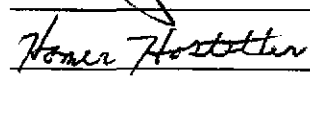
	Quadrants Needed
☒ Install/upgrade active devices	
☐ Automatic Flashing Lights (AFLS)	
☐ AFLS / Cants	
☒ AFLS / Gates	SW & NE
☐ AFLS / Gates / Cants	
☒ Bells / number	
☐ Upgrade circuitry / type	
☐ Sidelights	
☐ Guardrail Needed	
☐ Install/Replace curb	
☒ Bungalow placement & offset from rail & highway	Shared w/ Eby Rd Project
☐ Other (define)	

Comments:

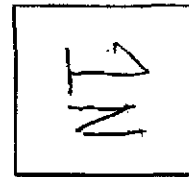
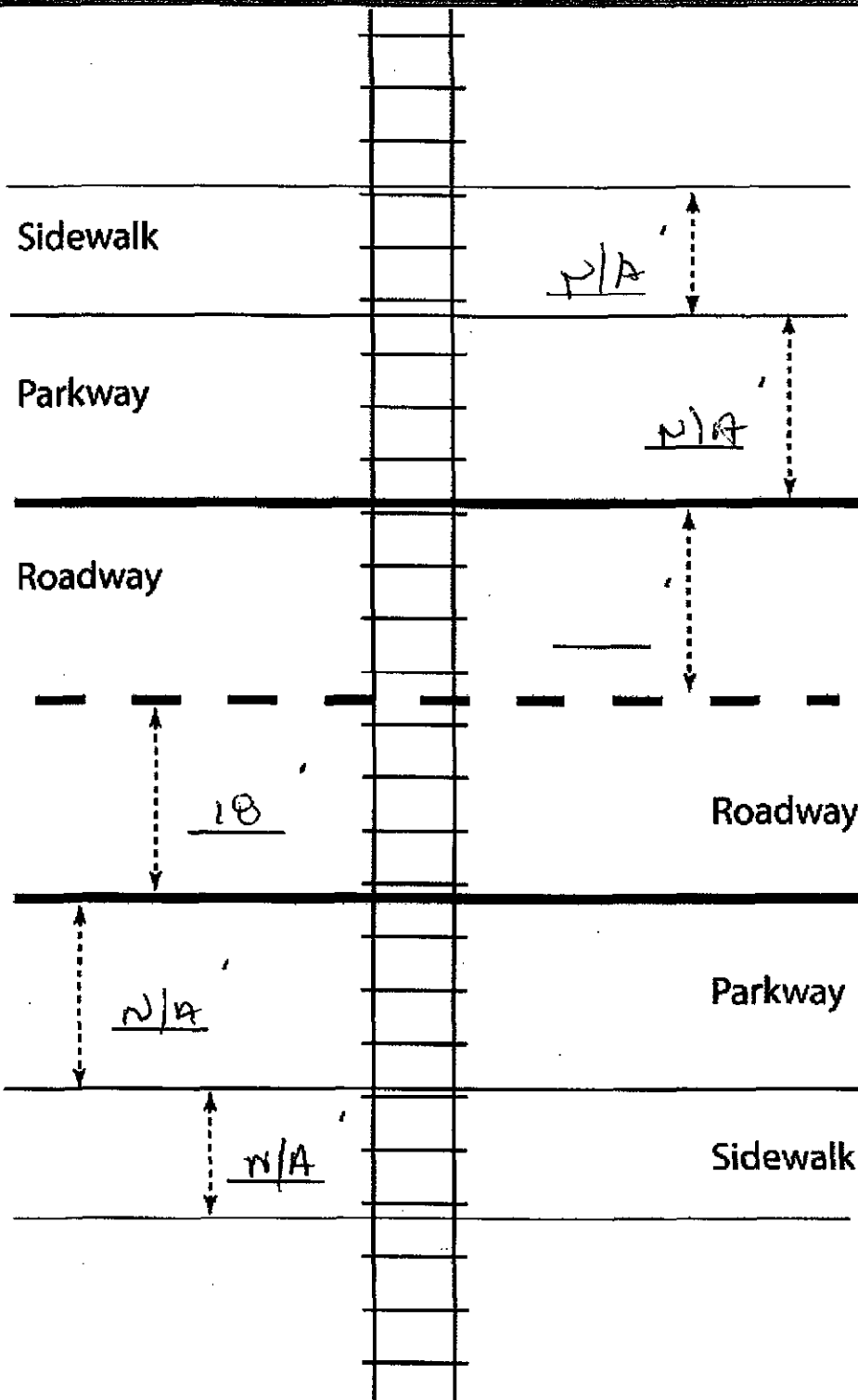
ONE CRIB WALL WILL BE NEEDED.

☐ 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)

Field Dimensions



Show North Direction

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

Measurements by: GR

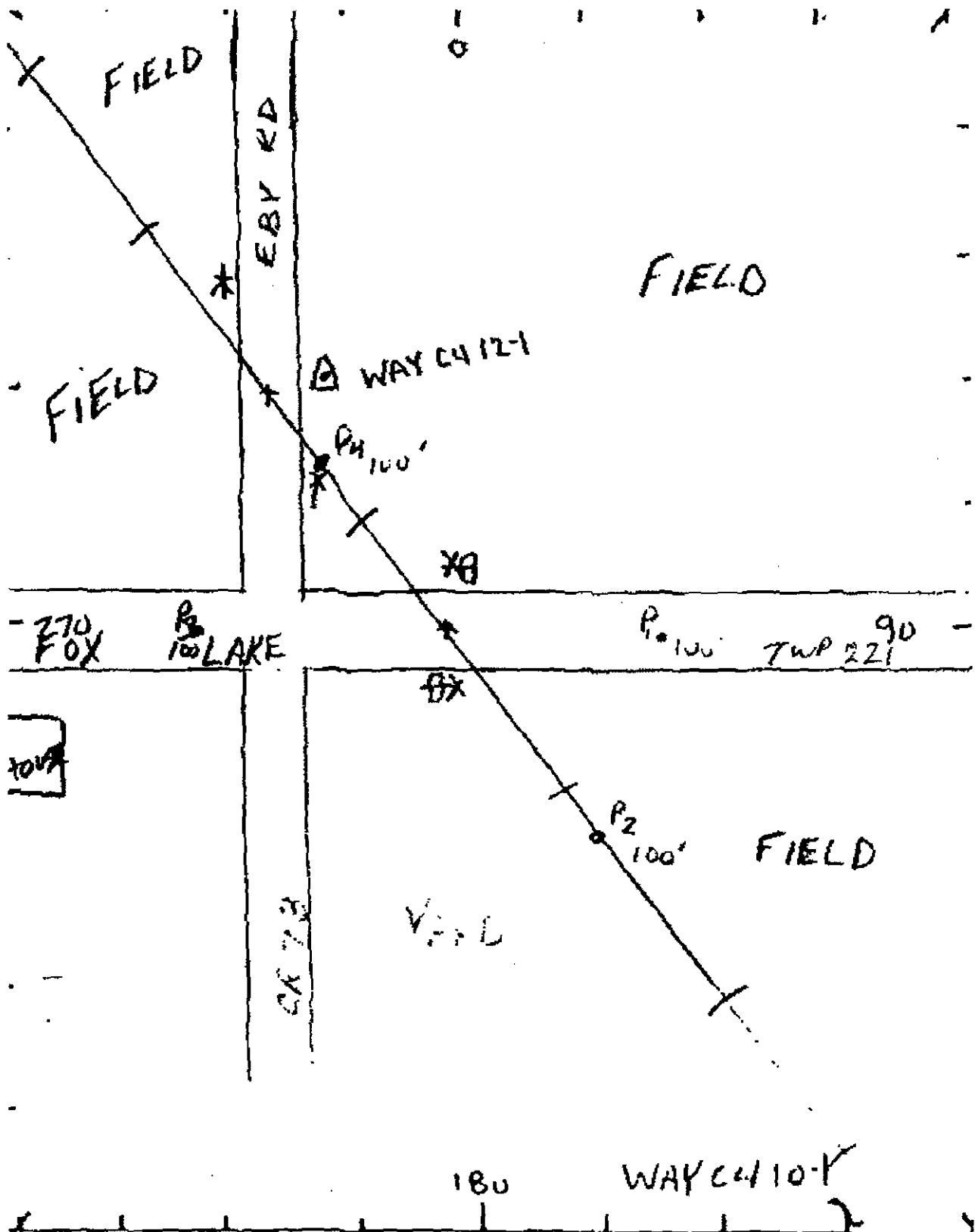


TABLE 1

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.



Run Date: 03/06/2012
Run Time: 07:10:02

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
FEDERAL-AID PROJECT AGREEMENT

Report: FMISD05A
Page 1

STATE: OHIO

PROJECT NO: E120(364)

STATE PROJ. NO: 93072

THE STATE, THROUGH ITS HIGHWAY AGENCY, HAVING COMPLIED, OR HEREBY AGREEING TO COMPLY, WITH THE APPLICABLE TERMS AND CONDITIONS SET FORTH IN (1) TITLE 23, U.S. CODE, HIGHWAYS, (2) THE REGULATIONS ISSUED PURSUANT THERETO AND (3) THE POLICIES AND PROCEDURES PROMULGATED BY THE FEDERAL HIGHWAY ADMINISTRATION RELATIVE TO THE ABOVE DESIGNATED PROJECT, AND THE FEDERAL HIGHWAY ADMINISTRATION HAVING AUTHORIZED CERTAIN WORK TO PROCEED AS EVIDENCED BY THE DATE ENTERED OPPOSITE THE SPECIFIC ITEM OF WORK, FEDERAL FUNDS ARE OBLIGATED FOR THE PROJECT NOT TO EXCEED THE AMOUNT SHOWN HEREIN, THE BALANCE OF THE ESTIMATED TOTAL COST BEING AN OBLIGATION OF THE STATE. SUCH OBLIGATION OF FEDERAL FUNDS EXTENDS ONLY TO PROJECT COSTS INCURRED BY THE STATE AFTER THE FEDERAL HIGHWAY ADMINISTRATION AUTHORIZATION TO PROCEED WITH THE PROJECT INVOLVING SUCH COSTS. (N)

PROJECT DESCRIPTION: WAY Eby & Fox Lake WLE, Installation of flashing lights and roadway gates, any ancillary work needed

DUNS #: 80-917-4402

CLASSIFICATION OF PHASE OF WORK
TO BE PUT UNDER AGREEMENT

EFFECTIVE DATE
OF AUTHORIZATION

HIGHWAY PLANNING & RESEARCH
PRELIMINARY ENGINEERING
RIGHT-OF-WAY
CONSTRUCTION
MCSAP
OTHER

03/05/2012

PROGRAM CODE	URBAN/ WITH	TOTAL COST	FEDERAL SHARE	FEDERAL FUNDS UNDER AGREEMENT	ADVANCED CONST. FUNDS
LSSE		\$303,000.00			\$303,000.00
TOTAL		\$303,000.00		\$0.00	

ESTIMATED TOTAL COST: \$303,000.00
TOTAL AUTHORIZED FOR PROJECT: \$0.00

OHIO DEPARTMENT OF TRANSPORTATION

AVAILABLE FUNDS CERTIFIED BY:	HEIDI A. MERTLER	DATE:	03/01/2012
APPROVED AND AUTHORIZED BY:	HEIDI A. MERTLER	DATE:	03/01/2012
AGRMT/MODIFY REQUESTED BY:	NICHOLE M. LAWHORN	DATE:	03/01/2012

FEDERAL HIGHWAY ADMINISTRATION

PROJECT INFORMATION REVIEWED BY:	STEVEN A. JACOBS SR.	DATE:	03/02/2012
APPROVAL RECOMMENDED BY:	STEVEN A. JACOBS SR.	DATE:	03/02/2012
APPROVED AND AUTHORIZED BY:	JEFF BLAIS	DATE:	03/05/2012

STATE REMARKS: Authorization for RR force account. All work to be done within existing RW. This agreement is subject to the following award terms: <http://edocket.access.gpo.gov/2010/pdf/2010-22705.pdf> and <http://edocket.access.gpo.gov/2010/pdf/2010-22706.pdf>.

DIVISION REMARKS: This project is authorized IAW the October 19, 2006 FHWA - ODOT Stewardship and Oversight Agreement by which the authority is delegated and the state has accepted responsibility for project oversight through exemptions provided in Title 23 USC 106.

STATE OF OHIO
PURCHASE ORDER
 OHIO DEPARTMENT OF TRANSPORTATION

P.O. DATE: 3/20/2012

ODOT P.O. NUMBER: 580162

DOCUMENT CNTE
TYPE:

CHANGE ORDER: RR

OAKS P.O. NUMBER:

PID NUMBER	CONTRACT/BID/OIH		CONTROL BOARD NBR	DOC. AMOUNT	
93072	DOTC1-A			\$300,000.00	
PROJECT NBR	SIB LOAN NBR	AGREEMENT NBR	COUNTY	ROUTE	SECTION
			WAY	EBY	ROAD

VENDOR INFORMATION:

NAME: WHEELING & LAKE ERIE RAIL

OAKS VENDOR 0000089796
NUMBER:

ADDRESS: PO BOX 72204

ADDRESS CODE: 002

CITY, STATE: CLEVELAND, OH

ZIP CODE: 44192

DESCRIPTION:

RAILROAD CROSSING PROTECTION

LINE NBR	FUND	FISCAL YEAR	SAC	SPRC	RCAT	ACTIVITY	ACCOUNT CODE
01	7002	2012	4FP7	0003	NOCC	0071	573067
ELIGIBILITY		FAN		STATE JOB NBR		LINE AMOUNT	
E		DOT1E120 000364		438339		\$300,000.00	

THE DIRECTOR OF BUDGET AND MANAGEMENT HEREBY CERTIFIES THAT THERE IS A BALANCE IN THE APPROPRIATION NOT ALREADY OBLIGATED TO PAY EXISTING OBLIGATIONS IN AN AMOUNT AT LEAST EQUAL TO THE PORTION OF THE CONTRACT, AGREEMENT, OBLIGATION, RESOLUTION OR ORDER TO BE PERFORMED IN THE CURRENT FISCAL YEAR.

WHEELING & LAKE ERIE RAILWAY COMPANY

Dan Reinsel
Signal & Communication Supervisor

100 East First Street
Brewster, OH 44613

Tel. 330-767-7202

dreinsel@wlerwy.com

Fax: 330-767-3213

16 July 2012

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

Re: Estimate for Railroad Crossing Warning System at Eby Road (DOT 473-203K) and Fox Lake Road (DOT 473-302D)

Dear Mr. Reinhardt,

I am providing this estimate for the crossing package and installation at Eby & Fox Lake Road crossings. Installation will be performed under our continuing construction agreement with CTC LLC. Once design is approved the materials will be competitively bid and results forwarded to your office.

CTC Managed Services, Design, Estimating, & Installation	\$76,428.59
Materials	\$205,060.78
Fill Materials	\$5,500.00
Fill Material Transport	\$3,500.00
Two Gate Foundations (note 1)	\$1,956.00
Berm Wall (note 2) south east gate, Fox Lake Rd.	\$3,550.00
Electric Service	\$4,000.00
Site Preparation (foundations, bores)	\$28,378.24
<u>WLE Direct Labor</u>	<u>\$4,500.00</u>
Estimated Total	\$332,873.61

Please contact me if additional details are required.

Respectfully,


Dan Reinsel

Notes

- 1: Direct purchase from Fabricated Metals, 60' galvanized gate foundation, \$489 ea.
- 2: Direct purchase from Dixie Precast, three 5' wide, 6 feet tall, with hand rail, \$220 per foot

JR
logged
Sent to
R.L.
7/17/12
SA

Wheeling & Lake Erie Railway Co.
Smithville, Ohio - Fox Lake & Eby Roads DOT# 473 203K/473 202D
Project Estimate - CT12077

ENGINEERING					
Description	Qty	UOM	Unit Price		Amount
SIGNAL DESIGNER	80	HR	31.25		\$2,500.00
SIGNAL CHECKER, LEVEL 1	10	HR	36.06		\$360.60
SIGNAL CHECKER, LEVEL 2/FIELD ENGINEER		HR	36.06		\$0.00
SUBTOTAL					\$2,860.60
G&A BURDEN FOR LABOR					\$5,234.90
FIXED FEE					\$809.55
ENGINEERING TOTAL					\$8,905.05

PROJECT MANAGEMENT					
Description	Qty	UOM	Unit Price		Amount
SENIOR SIGNAL ENGINEER	12	HR	\$72.11		\$865.32
PROJECT MANAGER	24	HR	\$31.25		\$750.00
CONSTRUCTION MANAGER	40	HR	\$36.06		\$1,442.40
ACCOUNTING, LEVEL 1	16	HR	\$39.81		\$636.96
ADMINISTRATIVE	4	HR	\$25.48		\$101.92
SUBTOTAL					\$3,796.60
G&A BURDEN FOR LABOR					\$6,947.78
FIXED FEE					\$1,074.44
PROJECT MANAGEMENT TOTAL					\$11,818.82

CONSTRUCTION LABOR					
Description	Qty	UOM	Unit Price		Amount
SIGNAL FOREMAN	160	HR	\$28.50		\$4,560.00
SIGNALMAN	320	HR	\$19.50		\$6,240.00
SIGNAL HELPER	160	HR	\$19.00		\$3,040.00
SUBTOTAL					\$13,840.00
G&A BURDEN FOR LABOR					\$25,327.20
FIXED FEE					\$3,916.72
CONSTRUCTION LABOR TOTAL					\$43,083.92

CONSTRUCTION LABOR EXPENSES					
Description	Qty	UOM	Unit Price		Amount
EMPLOYEE MEALS (PER DIEM)	84	EA	\$30.00		\$1,920.00
EMPLOYEE TRAVEL & LODGING	64	EA	\$60.00		\$3,840.00
SUBTOTAL					\$5,760.00
CONSTRUCTION LABOR EXPENSES TOTAL					\$5,760.00

Wheeling & Lake Erie Railway Co.
Smithville, Ohio - Fox Lake & Eby Roads DOT# 473 203K/473 202D
Project Estimate - CT12077

CONSTRUCTION EQUIPMENT				
Description	Qty	UOM	Unit Price	Amount
TRUCK, PU, 1 TON CREW CAB	160	HR	\$11.78	\$1,884.80
TRUCK, BOOM, ART, TELESCOPING	40	HR	\$55.95	\$2,238.00
TRAILER, UTILITY, 4 TIRE, 12,000lbs SC410	160	HR	\$7.55	\$1,208.00
RENTAL EQUIPMENT (FORK LIFT/BACKHOE/SKYTRAK)	2	WK	\$690.00	\$1,380.00
EQUIPMENT DELIVERY/PICKUP	1	LS	\$150.00	\$150.00
SUBTOTAL				\$6,860.80
CONSTRUCTION EQUIPMENT TOTAL				\$6,860.80

MATERIAL				
Description	Qty	UOM	Unit Price	Amount
HOUSE MATERIAL (SEE ATTACHED DETAIL)	1	LS		\$99,156.36
FIELD MATERIAL (SEE ATTACHED DETAIL)	1	LS		\$91,804.42
HOUSE AND SIGNAL WIRING	1	LS		\$8,000.00
FILL DIRT		TN	\$7.50	\$0.00
CONCRETE		YD	\$500.00	\$0.00
COVER ROCK		TN	\$28.50	\$0.00
BORING 4"		FT	\$35.00	\$0.00
ELECTRICAL PERMITS		EA	\$3,500.00	\$0.00
METER POLE ASSY AND INSTALLATION		EA	\$2,500.00	\$0.00
FREIGHT & CONTAINER PRICE	1	LS		\$6,000.00
SUBTOTAL				\$205,060.78
MATERIAL TOTAL				\$205,060.78

TOTAL PROJECT ESTIMATE	\$281,489.37
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HOUSE MATERIALS					
Description	QTY	UOM	MANUFACTURER PN	Unit Price	Total Price
HOUSE 6X10 AL WLE W/4 RKS	1	EA	PTMW 12587	\$15,500.00	\$15,500.00
ASSY HXP-3R WADK(2)4KHZ/RSI/RMM	2	EA	250811-2B01	\$22,500.00	\$46,000.00
ASSY MDSA-1A	2	EA	250204-001C	\$301.43	\$602.87
CHARGER 40A 12V CRAGG 40ETC12V	3	EA	017061-203	\$673.27	\$2,019.80
RECTIFIER POWER CORD 14/4 SJE BLK	100	FT		\$1.00	\$100.00
BATTERY NICAD 420 AH SPL-420	9	EA		\$470.00	\$4,230.00
BATTERY NICAD 250 AH SPL-250	20	EA		\$310.00	\$6,200.00
TRAY BATTERY 12 X 27" POLYETHYLE	8	EA	7438-01	\$32.96	\$197.74
THERMOSTAT SPDT REMOTE BULB 8A	1	EA	009188-004	\$73.94	\$73.94
RLY DPDT 12VDC 5A OCT	7	EA	007192-032	\$13.22	\$92.55
SCKT RLY 8-PIN OCT SCREW PNLMT	7	EA	132248-001	\$4.48	\$31.34
ASSY AGA-1 ARRESTOR	24	EA	202216-001	\$20.76	\$498.17
ASSY AGE-1 EQUALIZER	8	EA	202217-000	\$21.75	\$173.98
POWER OFF LIGHT KIT	1	EA	LC2-005WD	\$116.40	\$116.40
NUT INSULATED HARMON	20	EA	013985-000	\$2.97	\$59.40
SSCCII PLUS 40 AMP 19" BASE	2	EA	91190-0101	\$5,628.00	\$11,256.00
PANEL LTG SURGE SSCC 91170-01	2	EA	201758-015	\$608.75	\$1,217.50
MICRO DATA ANALYZER II WLE PK	2	EA	072113-100	\$3,450.00	\$6,900.00
MDA CURRENT SENSOR	4	EA		\$220.00	\$880.00
BATTERY GROUND DETECTOR	1	EA	NAS	\$1,250.00	\$1,250.00
LABEL RK PNL-MAINTAINER TST SW	2	EA	125372-000	\$4.74	\$9.48
WIRE 16AWG/19 TC EPR/PVC BLU	400	FT	012092-002	\$0.22	\$88.00
WIRE 10AWG/19 TC EPR/PVC BLU	500	FT	012092-000	\$0.62	\$308.00
WIRE 6AWG/19THHN BLK	100	FT	012253-000	\$0.79	\$79.20
WIRE 6AWG/19 THHN RED	100	FT	012253-003	\$0.84	\$83.60
WIRE 6AWG/19 THHN GRN	60	FT	012253-002	\$0.75	\$44.88
CABLE RAW 3/14AWG PWR 300V	30	FT	012690-010	\$0.77	\$23.10
RES ADJ WW 15W 5.69 OHM PNLMT	1	EA	002238-101	\$26.09	\$26.09
CONN PLUG L6-15 250V 15A 2P3W	2	EA	132286-001	\$11.53	\$23.06
ASSY 2WAY TERM BLK W/AAR HARD	6	EA	202810-000	\$15.82	\$94.91
ASSEMBLY, 4 POST TERMINALBLOCK	16	EA	203032-000	\$43.48	\$695.73
ASSY TERM STRIP DBL POST 12	5	EA	250094-300	\$19.77	\$98.84
GROUND POST P5-162	4	EA	113047-000	\$25.94	\$103.75
WRENCH AAR TERMINAL	1	EA	085058-001	\$15.28	\$15.28
KIT APRVD SM PARTS/SL XING	1	EA	180394-590	\$1,058.90	\$1,058.90
LABEL, DANGER 240 V, 1.75 X 2.	1	EA	SQS109	\$3.86	\$3.86

FIELD MATERIALS					
Description	QTY	UOM	MANUFACTURER PN	Unit Price	Total Price
KIT TORQUE WRENCH S/T 070981X	1	EA	2587-01	\$266.38	\$266.38
SO CORD 10/3	120	FT		\$0.90	\$108.00
GATE ARM 16-32' UHI LED LGHTS	4	EA	076045-014	\$613.73	\$2,454.94
SLEEVE 4 ALUMINUM REC #92958	4	EA	14187-01	\$44.33	\$177.32
LED INSERT DIALIGHT FLX4000	16	EA	076048-109	\$247.76	\$3,964.22
DECAL, DOT STRIP	4	EA		\$16.00	\$64.00
BELL ELECTRONIC CROSSING 4/5"	2	EA	6147-01	\$210.03	\$420.07
ASSY WLE STANDARD FLASHER/GATE W/O ARM, GATE ARM LIGHTS, GATE KEEPER	4	ASSY	CTC	\$14,600.00	\$58,000.00
TAPE MARKER BURIED RR CABLE	1	EA	029989-000	\$21.43	\$21.43
CABLE UG 3 COND #6 AWG SOLID	250	FT	1013-02	\$4.95	\$1,237.50
CABLE UG 7 COND #6 AWG SOLID	1000	FT	1077-02	\$8.10	\$8,100.00
CABLE UG 7 COND #14 AWG SOLID	1000	FT	1023-02	\$3.25	\$3,250.00
WIRE UG TRK #8 AWG DUPLEX	1000	FT	1094-02	\$2.10	\$2,100.00
PVC CONDUIT 4 IN. SCH 80	80	FT		\$5.50	\$440.00
PVC CEMENT, 1QT W/BRUSH TOP	1	EA		\$7.15	\$7.15
GRINDING WHEEL 6IN X 1IN	4	EA		\$30.00	\$120.00
BOOTLEG KIT/1 PR TRACKWIRE WLE STANDARD	4	EA	HAX001BLXW2-KT	\$275.00	\$1,100.00
BOND JOINT 5/16" X 7" TAB ERICO #SB-	500	EA	2161-01	\$5.41	\$2,708.00
WIRE #6 SOFT BARE COPPER	80	FT	1436-01	\$0.40	\$23.78
CARTRIDGE SB25 POWDER W/ATTACHMETAL FOR	500	EA	1026-39	\$1.55	\$775.50
ROD 5/8 X 8 NS GRD***USE-02***	8	EA	1357-01	\$14.72	\$117.74
CONNECTION SBNT1-181G ONE-SHOTFOR 5/8 IN	8	EA	1029-01	\$6.17	\$48.37
CADWELD TYPE GR 5/8GRDX#8WIRE	8	EA	005755-002	\$7.10	\$56.76
BOND STRAND 8-STR 3/16" TINNEDSBS8TINSUL	100	FT	4133-01	\$1.21	\$121.00
ASSY FSS-1A 86HZ-267HZ	4	EA	250849-000	\$867.00	\$3,468.00
ASSY FSS-1B 267HZ-560HZ	2	EA	250849-001	\$460.00	\$920.00
PLATE SHUNT 24"X26"X1/4" GALV.	6	EA	8183-01	\$67.06	\$402.34
SCREW LAG 3/4" X 6" BLACK GRIMLET PO	24	EA	2000-01	\$0.81	\$19.54
TAPE ELECTRICAL 3M #33+ 3/4" PLASTIC	2	RL	1150-01	\$3.62	\$7.24
DUCTSEAL 1LB BLOCK	10	EA		\$3.30	\$33.00
FOAM INSULATING SPRAY	4	EA		\$12.25	\$49.00
STAPLE GROUND WIRE 1-1/16"X3"	50	EA	113005-000	\$0.32	\$15.95
TIE CABLE .184 X 7.31" HIG TEMSELF LOCKI	100	EA	4125-01	\$0.94	\$4.40
LUG RNG 1/4" 12-10AWG INS BLK	200	EA	032114-008	\$0.01	\$2.20
TAG ST-5 SNAPOUT 11 TAGS/CARD MI# 010301	100	EA	2090-01	\$2.26	\$227.70
STAPLE COPPERWELD 3/8 X 1-3/4 144 IN. RO	50	EA	1148-01	\$0.26	\$13.20
GREASE RUST PREVENTIVE NO OXID*A SPECIAL	1	EA	1906-01	\$9.83	\$9.83
SLEEVE NIÇO 3/16" #6 AWG REDUC#2383-J	20	EA	1145-01	\$0.89	\$17.82
CLIP TRACK WIRE RETAINER - ERICO #SBA	12	EA	1118-01	\$1.97	\$23.63
COMPOUND DUCT SEAL 5 LB PLUG PERMAGUM #	5	PK	1179-01	\$10.68	\$53.41
LOCK MASTER	6	EA	MLCK	\$28.41	\$170.48
EMERGENCY SIGN SIGNAL	4	EA	SIG SIGN	\$113.65	\$454.61
FIELD TAG KIT	2	EA	FLDTGKT	\$170.48	\$340.96

Crosier Industrial Construction Ltd

8938 Peck Rd
Ravenna, Ohio 44266
Ph: (330) 392-3082
trailmibob@hotmail.com

Crosier Industrial Construction, LLC
Project: Cost Estimate
Project: Fox Lake/Eby Road

Date: 16-Jul-12
Invoice Number:
WLE work order

LABOR	Rate/Hr	Hours	Sub-total
Equipment Operator (backhoe, excavator)	\$23.00	90	\$ 2,070.00
Laborer, skilled	\$23.00	90	\$ 2,070.00
Laborer, unskilled	\$17.25	90	\$ 1,552.50
Project Manager	\$50.00	60	\$ 3,000.00
Accounting	\$185.00	1	\$ 185.00
Administrative	\$30.00	3	\$ 90.00
Sub-Total			\$ 8,967.50
G&A Burden for Labor			5,380.50
Total Labor			\$ 14,348.00

EQUIPMENT	Quantity	Rate/Hr	Hours	Total
Excavator, Bobcat E32 (331)		\$ 31.20	90	\$ 2,808.00
Case Backhoe		\$ 42.33	60	\$ 2,539.80
Directional Drill		\$ 59.62	20	\$ 1,192.40
Truck, equipment		\$ 21.35	90	\$ 1,921.50
Tamper		\$ 4.25	70	\$ 297.50
Traffic Cones		\$ 0.13	90	\$ 11.70
Traffic Signs		\$ 0.23	90	\$ 20.70
Total Equipment				\$ 8,791.60

MATERIALS	Quantity	Price/Each	Total
Gravel	17 loads	WLE	
4" pvc conduit	470	1.95	\$ 916.50
4" 90 long sweep	8	25.2	\$ 201.60
4" 45 degree bend	6	11.5	\$ 69.00
4" 30 degree bend	2	11.5	\$ 23.00
4" 22 degree bend	2	16.5	\$ 33.00
4" coup	24	2.1	\$ 50.40
2" pvc conduit	500	0.8	\$ 400.00
2" 90 degree long sweep	4	17.95	\$ 71.80
2" 45 degree bend	8	1.95	\$ 15.60
Ground Rods	4	16.25	\$ 65.00
Pull Rope	1050	0.13	\$ 136.50
Glue	2	8.2	\$ 16.40
Pull Box, Large	30x48x18	660	\$ 660.00
Total Material			\$ 2,658.00

Sub-total	\$ 25,798.40
Profit Addition 10%	\$ 2,579.84
Total Project Estimate	28,378.24

Scope of Work:

- Day 1: Locate, expose and verify existing utilities to verify depth and location. Bore Eby road and place conduit
- Day 2: Bore Fox Lake Rd and place conduit. Layout project with paint and flags
- Day 3: Excavate and install conduit from bores to pull box location. Place A/C meter pole
- Day 4: Excavate and install both rear side foundations and conduit. Place gravel and tamp
- Day 5: Excavate and install Eby Rd for side foundation and conduit. Excavate and install 2" conduit for far side track wires. Place and tamp gravel.
- Day 6: Excavate and install front wall and far side foundation for Fox Lake Rd. Place gravel and tamp. Excavate and install far side track wire.
- Day 7: Complete conduit installation to pull box location. Install pull box. Place gravel and tamp.

Terms for invoices are Net 30 days. Thank you.

Crosier Industrial Construction Ltd

8938 Peck Rd
Ravenna, Ohio 44266
Ph (330) 592-3082
trainitbob@hotmail.com

Day 8: Spread and tamp gravel to raise driveway to proper elevation.

Day 9: Spread and tamp gravel. Finish grade; clean site.

Additional duties performed throughout the project:

- * Coordinate delivery of fill material
- * Transport foundations, conduits, pull box to site
- * Remove spoils and debris
- * Supply and erect traffic control devices for work zone safety
- * Call Ohio Utility Protection Service as required by Ohio law
- * Establish Railroad Roadway Worker Protection daily to comply with Federal regulation.

Terms for invoices are Net 30 days. Thank you.

SITE LAYOUT NOTES

- 1.) SITE LOCATION
LAT 40.888314
LONG. -81.861053
- 2.) EBY RD
A) TO THE WEST OF CROSSING EBY SHUNT OVERLAPS
326 HZ SHUNT FOR FOX LAKE RD
B) TO THE EAST OF CROSSING EBY SHUNT OVERLAPS
210HZ SHUNT FOR HUTTON
- 3.) FOX LAKE RD
A) TO THE EAST OF FOX LAKE RD SHUNT OVERLAPS
210 HZ SHUNT FOR HUTTON RD

1HXP

SHUNT RECORDS									
APPROACH 1 (EAST)	NO SHUNT RX	100% SHUNT RX	50% SHUNT RX	LUA ADDED ± 1 TO B.S	APPROACH 2 (WEST)	NO SHUNT RX	100% SHUNT RX	50% SHUNT RX	LUA ADDED ± 1 TO B.S
Track 1	Normal				Track 1	Normal			
Track 2	Standby				Track 2	Standby			
Track 3	Normal				Track 3	Normal			
Track 4	Standby				Track 4	Standby			
Track 5	Normal				Track 5	Normal			
Track 6	Standby				Track 6	Standby			

INITIAL VALUES WHEN PLACED IN SERVICE

2HXP

SHUNT RECORDS									
APPROACH 1 (EAST)	NO SHUNT RX	100% SHUNT RX	50% SHUNT RX	LUA ADDED ± 1 TO B.S	APPROACH 2 (WEST)	NO SHUNT RX	100% SHUNT RX	50% SHUNT RX	LUA ADDED ± 1 TO B.S
Track 1	Normal				Track 1	Normal			
Track 2	Standby				Track 2	Standby			
Track 3	Normal				Track 3	Normal			
Track 4	Standby				Track 4	Standby			
Track 5	Normal				Track 5	Normal			
Track 6	Standby				Track 6	Standby			

INITIAL VALUES WHEN PLACED IN SERVICE

ELECTRONIC CROSSING BELL
CSI CODE: EB-3-360-5



THIS SIDE FACING ROADWAY

Wheeling & Lake Erie Railway

EBY ROAD AND FOX LAKE ROAD
SMITHVILLE, OH

PROJECT NO.	4/20/2012	DATE	4/20/2012
DESIGNER	W&LE	DATE	4/20/2012
CHECKER	W&LE	DATE	4/20/2012
APPROVED	W&LE	DATE	4/20/2012
PROJECT	W&LE	DATE	4/20/2012

REVISION BLOCK

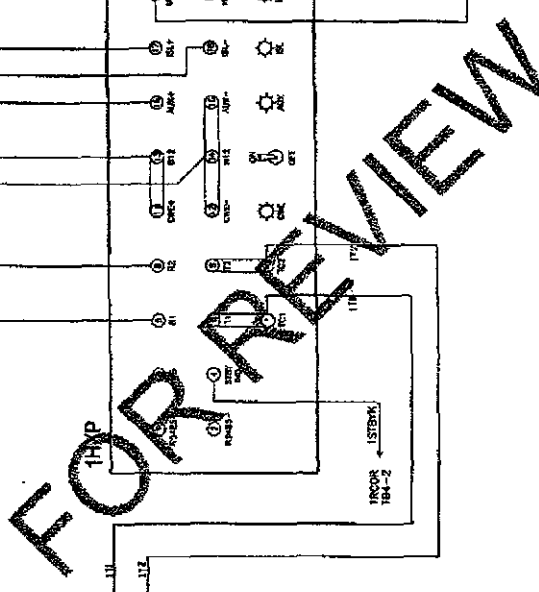
4.)

5.)

FOR REVIEW

- REVISION
-
- BLOCK

[illegible]



EBBY ROAD

RENTING EQUIPMENT & LABOR

BY ROAD AND FOX LAKE ROAD
SMITHVILLE, OH

WEEK NO	4/8/2012	WTS	1RM	GROSSING	CONTRN	CALCULS
W1	250	140	N/A	100	100	100
W2	250	140	115.70	115.72	100	100
W3	250	140	115.70	115.72	100	100
W4	250	140	115.70	115.72	100	100

2000

RECEIVED
MAY 20 1964

- FIELD ADJUSTMENT TO BE MADE ACCORDING TO THE HOP-3 INSTRUCTION MANUAL.

4427-38 AUGUST 19

NO.	ADJUSTMENT NAME	TRACK 1	TRACK 2
1	APP. LENGTH	2408	
2	WARNING TIME	38 SEC	
3	LA	"	
4	TC	"	
5	MO RESTART	0	

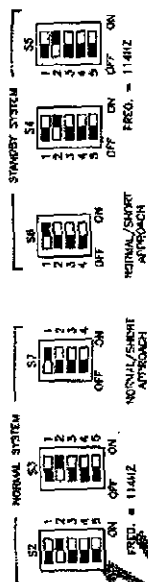
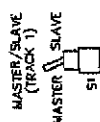
OPTIONAL STUDENTS

NO.	ABBREVIATION	TRACK 1	TRACK 2
1	TH-EMA	UP	
2	TR TD	114 ME	
3	CH/AD	C	
4	UM-B	B (B)	
5	NBS-C	"	
6	CHERT	DL (60 SEC.)	
7	LOS	DL (6 SEC.)	
8	LI-LOS	DL (6 SEC.)	
9	BC	"	
10	P-CHAP	"	
11	ATI	N/A	
12	AN2	N/A	
13	AN3	N/A	
14	MOR-AN	50"	
15	OT-TR 1 OR 2	DL (2)	
16	C-LOS	DL (3)	
17	PA-DET	DL (15)	
18	PJ-RE	DL (15)	
19	MP-DRI	DL (10)	
20	WIN-RT	DL (2)	
21	F3-DRT	50"	
22	F3-RN	DL (10)	
23	F3-TL	DL (10)	
24	PDS-ST	50"	
25	PDS-AN	DL (2)	
26	PDS-TN	DL (2)	
27	AS-DRI	50"	
28	AR-RE	DL (2)	
29	AR-TL	DL (10)	
30	ATD-PA	50"	

NO.	DESCRIPTION	AL 1	AL 2	AL 3
1	IT-CAN			
2	GR-VI			
3	DR-12			
4	DR			
5	MO-RS			
6	CG/DB			
7				
8	AL-66			
9	AL-RT			
10	AL-22			
11	AL-24			

[illegible]

NOTE: OL= DEFAULT LEVEL
RA= NOW APPLICABLE



NOTES FOR 56 AND 57:

- FOR 30 MIN. 31:
- 1) ACTUATOR 1 SELECTS NORMAL APPROACH WHEN SET TO ON POSITION.
 - 2) WITH ACTUATOR 1 IN OFF POSITION ACTUATOR 2 SELECTS SHORT APPROACH WHEN OFF AND SELECTS VERY SHORT WHEN ON.
 - 3) ACTUATOR 3 AND 4 RESERVED FOR FUTURE USE.

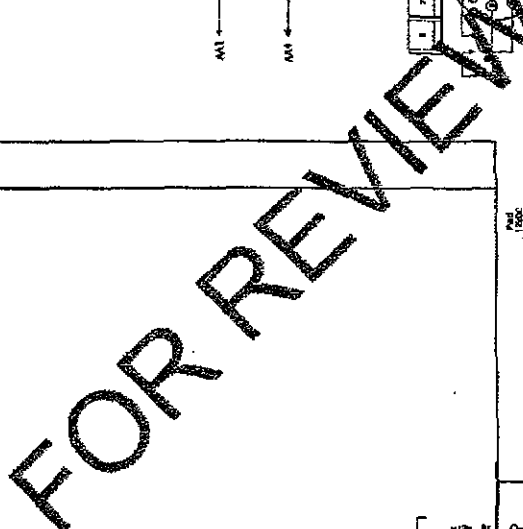
EBBY ROAD

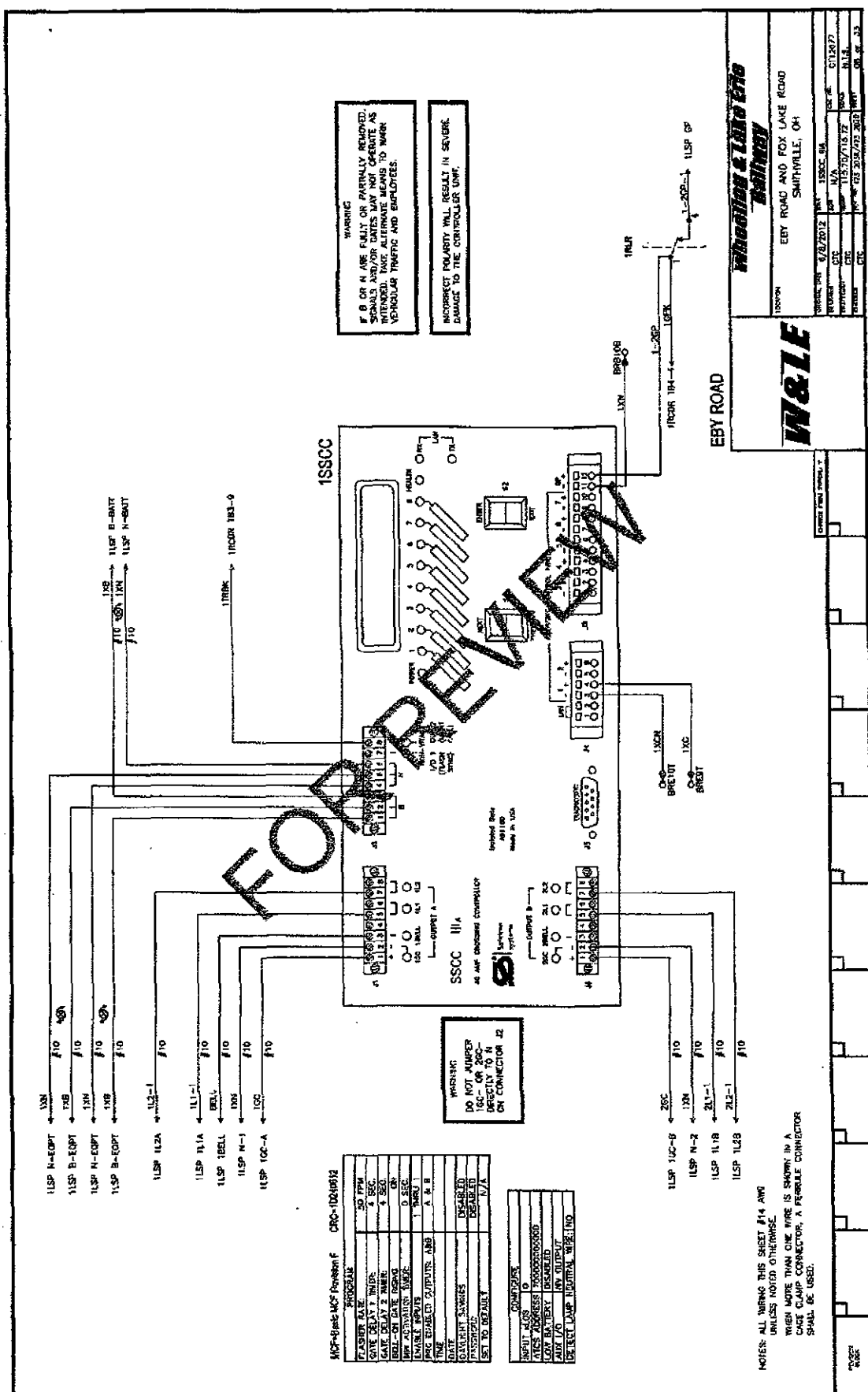
Авторы
С. В. Лавров и В. В. Лаврова

EBY ROAD AND FOX LAKE ROAD
SMITHVILLE, OH

1787E

[illegible]



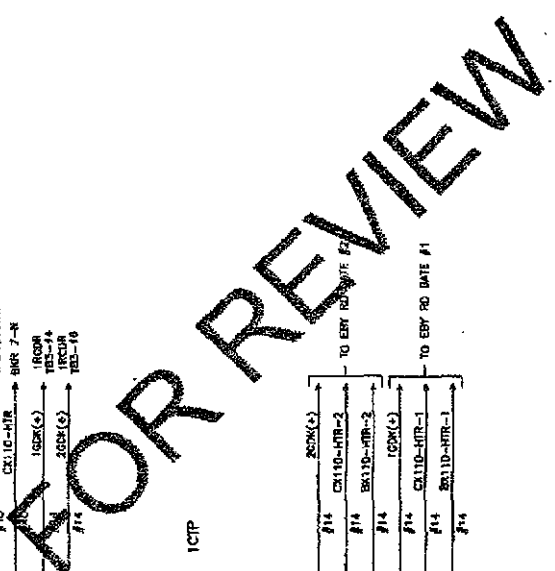


Авторы
О.А. Овчинникова

FREEBY ROAD AND FOX LAKE ROAD
SMITHVILLE, OH

W87E

WORKING PER	6/8/2012	ENT	1530C	91A	OK	6/12/97
RELEASED	CTC	208	N/A			
REVIEWED	CTC		115.70/715.72	1530C		6/18/
RECEIVED			115.70/715.72	1530C		6/18/



**Worcester & Lake Erie
Railway**

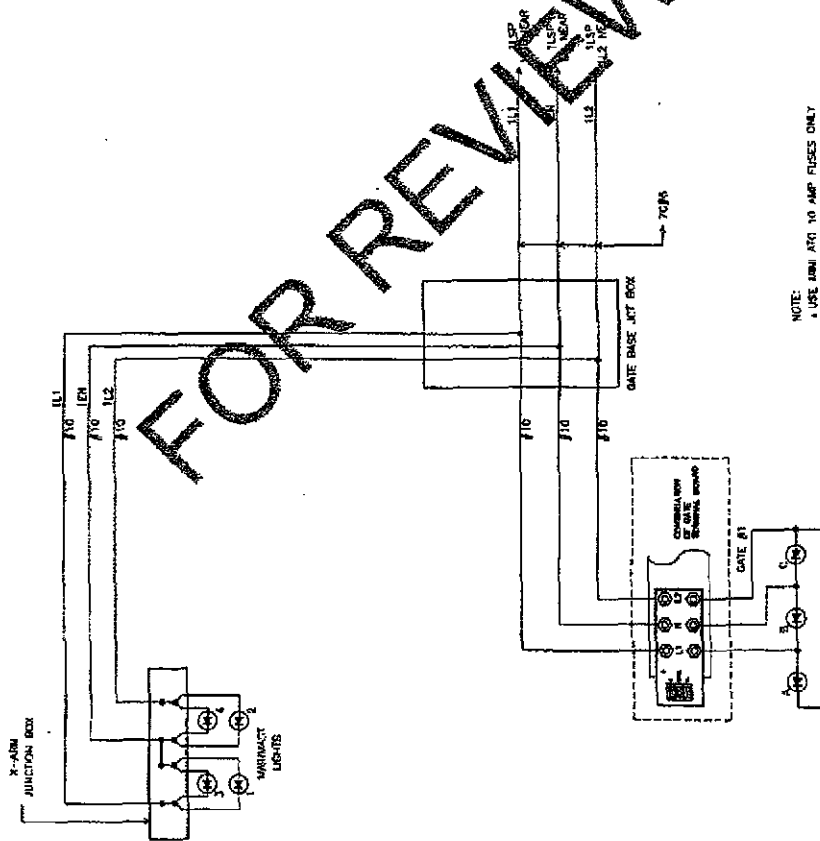
718M

EBBY ROAD AND FOX LAKE ROAD
SMITHVILLE, OH

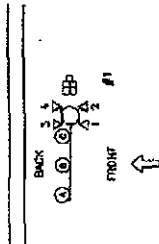
CHARGE VTY	9/9/2012	1012	12TP		
REASON	CTC	SUB	M/A	CTC DE	CTI 2077
WTR MARK	CTC	TRAP	115.262/116.72	STATE	M.T.S.
WTRNG	WTR	WTR	101.90.235.203/101.90.235.203	WTR	10 or 03

Age Group	Percentage
18-24	10
25-34	35
35-44	25
45-54	15
55-64	10
65-74	5
75-84	3
85-94	2
95+	1

EBY ROAD GATE #1



NOTE:
* USE 100 AMP 10 AMP FUSES ONLY
Ⓜ IS LED SYMBOL ONLY, ASHALL ACCORDING
TO MANUFACTURER'S INSTRUCTIONS.



EBY ROAD

Wadding & Lake Erie
Railway

EBY ROAD AND FOX LAKE ROAD
SOUTHVILLE, OH

W&LE

DATE	8/18/2012	BY	W&LE	REV	1
DESCRIPTION	W&LE	DATE	8/18/2012	BY	W&LE
REVISION	1	DATE	8/18/2012	BY	W&LE
REVISION	2	DATE	8/18/2012	BY	W&LE
REVISION	3	DATE	8/18/2012	BY	W&LE
REVISION	4	DATE	8/18/2012	BY	W&LE
REVISION	5	DATE	8/18/2012	BY	W&LE
REVISION	6	DATE	8/18/2012	BY	W&LE
REVISION	7	DATE	8/18/2012	BY	W&LE
REVISION	8	DATE	8/18/2012	BY	W&LE
REVISION	9	DATE	8/18/2012	BY	W&LE
REVISION	10	DATE	8/18/2012	BY	W&LE
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REVISION	100	DATE	8/18/2012	BY	W&LE

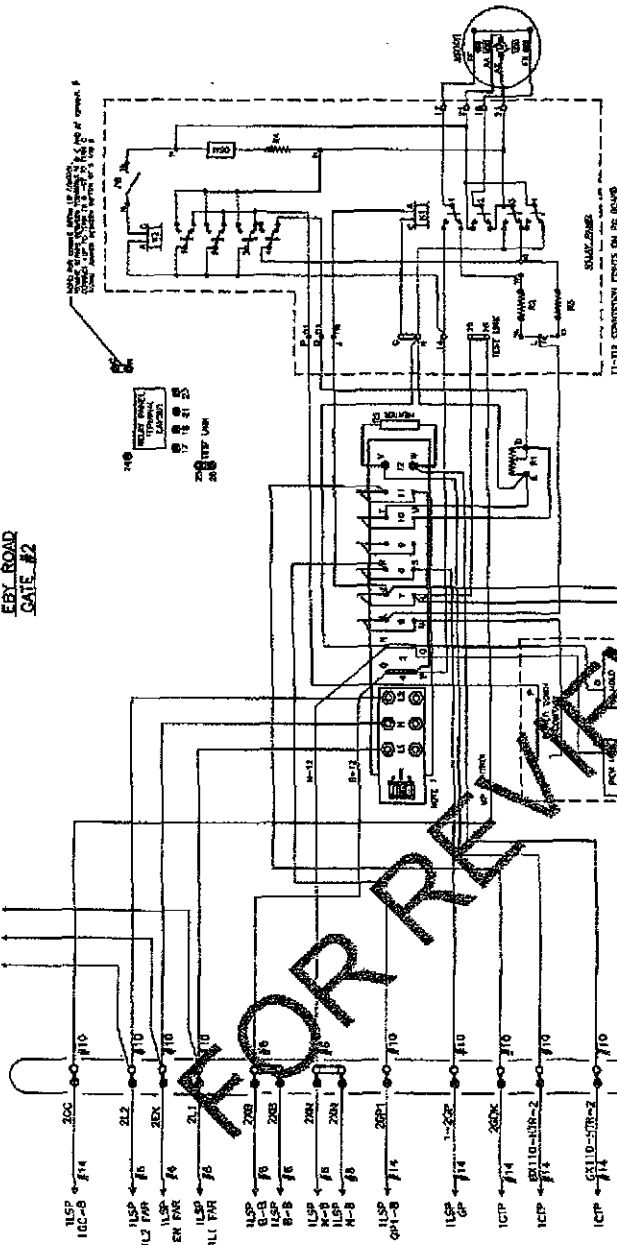
REVISION

EBY ROAD GATE #2

TO MOUNT FLASHERS
(SEE SHEET 15 FOR DETAILS)

SAFETRAIN MODEL S-40
GATE MECHANISM

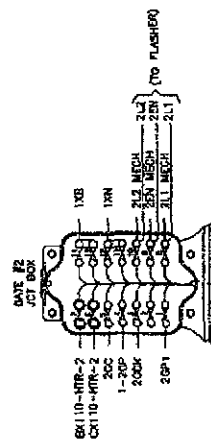
CONTACT	FUNCTION
8	CLOSED
7	45°-90° POWER UP
6	0°-90° POWER UP
5	0°-90° FLASHING LIGHT
4	0°-90° BELL (NOT USED)
3	0°-90° HORIZONTAL SWIB
2	0°-90° GATE DOWN INDICATOR
1	WITH GATE IN UP POSITION



MODEL S-40, GATE WIRING DIAGRAM

S-40 PNC 074000-W700 72
INCLUDES ZINC PLATED HARDWARE PKG., MOUNT. PANEL
& SWITCH, 115V HEATER AND GATE ARM
FUSE BLOCK

NOTE 1: REFER TO SHEET 15 FOR FUSE
BLOCK & GATE ARM LIGHT WIRING.



→ CABLES TO CASE

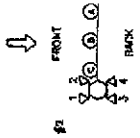
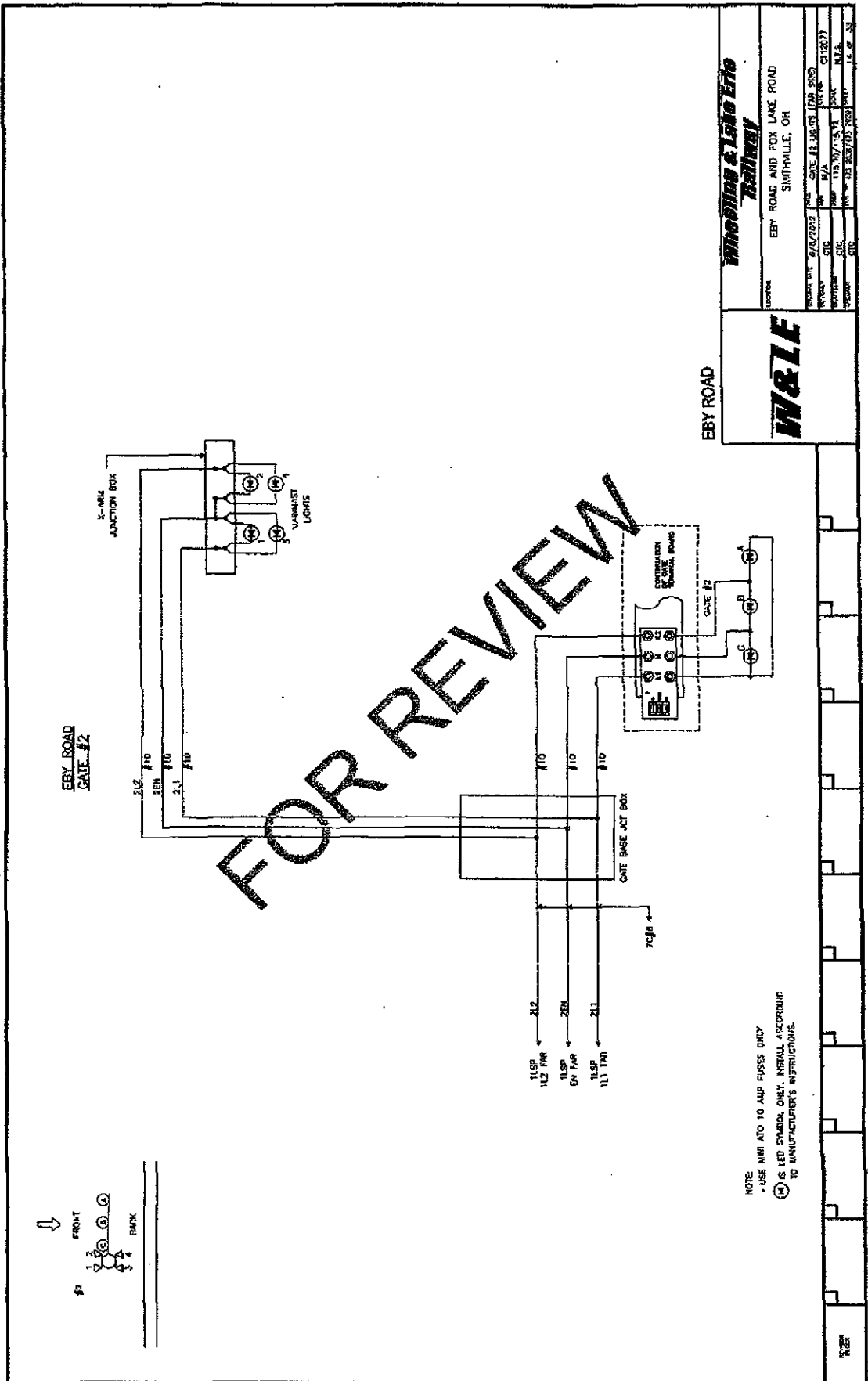
EBY ROAD

Wheeling & Lake Erie
Railway

EBY ROAD AND FOX LAKE ROAD
SMITHVILLE, OH

W&LE

DATE	9/15/2011	BY	W&LE	REV	01/20/77
DESIGNED BY	W&LE	CHECKED BY	W&LE	DATE	11/15/77
PROJECT NO.	25-2087419-202	PROJECT	W&LE	DATE	11/15/77



NOTE:
 • USE MINI AUTO 10 AMP FUSES ONLY
 • IS LED SYMBOL ONLY. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

EBY ROAD

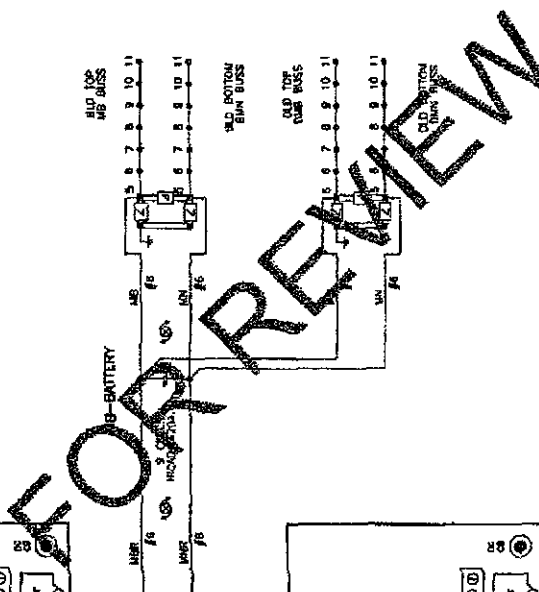
Whodunnit & Let's Eto Railway

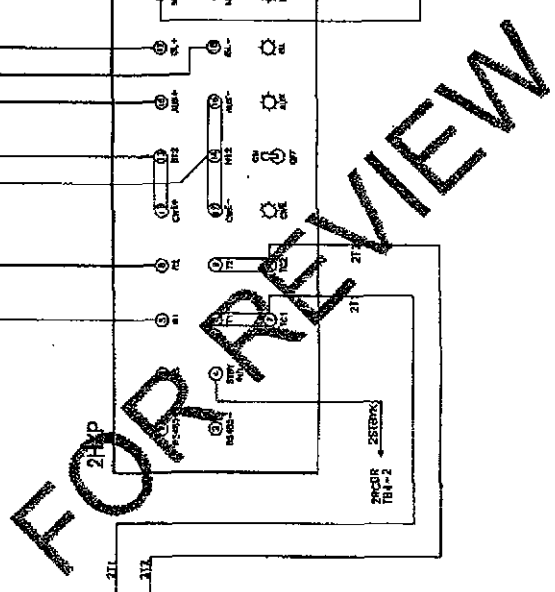
LOCATION: EBY ROAD AND FOX LAKE ROAD
 SMITHVILLE, OH

PROJECT NO.	8/12/2023	DATE	8/12/2023	DATE	8/12/2023
DESIGNED BY	CMC	DATE	8/12/2023	DATE	8/12/2023
REVIEWED BY	CMC	DATE	8/12/2023	DATE	8/12/2023
APPROVED BY	CMC	DATE	8/12/2023	DATE	8/12/2023
ISSUED BY	CMC	DATE	8/12/2023	DATE	8/12/2023

W&LE

10/20/2023





Amtrak Whispering Willows

3784

AD AND FOX LAKE ROAD
SMITHVILLE, OH

[illegible]

NOTE: ALL WRONG THIS SHEET #14 AND
UNLESS NOTED OTHERWISE

PROGRAM
NO. 157380-00

• - FIELD ADJUSTMENT TO BE MADE ACCORDING TO THE 100P-3 INSTRUCTION MANUAL.

51-28161-1034

NO.	ADJUSTMENT NAME	TRACK 1	TRACK 2
1	APP. LENGTH	1761"	
2	WARRING TIME	29 SEC	
3	LA		
4	TC		
5	WD RESTART		

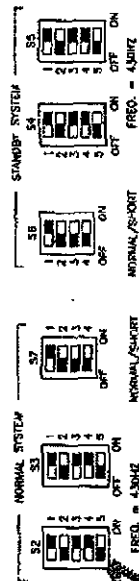
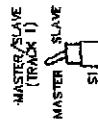
OPTIONAL ANSWERS

REL.	ABBREVIATION	TRACK 1	TRACK 2
1	TK-DA	UP	
2	TK FO	430 HZ	
3	CH/AD	C	
4	UW-H	P (P)	
5	NBE-C		DL (BO SEC.)
6	CMET		DL (16 SEC.)
7	L-LOS		DL (3 SEC.)
8	LS		
9	RS		
10	P-COMP		
11	AS1	N/A	
12	AS2	N/A	
13	AS3	N/A	
14	MPR-AX	W	
15	OF-TK 1 OR 2		
16	CJ-LOS	DL (6)	
17	PJ-BRT	DL (2)	
18	PJ-RX	DL (15)	
19	MD-TMR	DL (13)	
20	W9-WT	DL (10)	
21	FS-BCT	DL (6)	
22	FS-RX	DL (10)	
23	FS-TU	DL (10)	
24	PDS-SP	DL (10)	
25	PDS-RX	DL (2)	
26	PDS-TU	DL (10)	
27	AP-TMR	DL (10)	
28	AP-RX	DL (10)	
29	AP-TU	DL (10)	
30	ATO-RX	UP	
31	QC-PA	DL (10)	

AN ADJUSTMENTS		AMT 1	AMT 2	AMT 3
NO.	ADJUSTMENT			
1	75-5000			
2	GP-10			
3	GP-12			
4	GP-50			
5	GP-100			
6	GP-100			
7	GP-100			
8	GP-100			
9	GP-100			
10	GP-100			

[illegible]

NOTE: (X) = DEFAULT LEVEL
N/A = NOT APPlicable



- 1) ACTUATOR 1 SELECTS NORMAL APPROACH WHEN SET TO ON POSITION.
- 2) WITH ACTUATOR 1 IN OFF POSITION ACTUATOR 2 SELECTS SHORT APPROACH WHEN OFF AND SELECTS VERY SHORT WHEN ON.
- 3) ACTUATOR 3 AND 4 RESERVED FOR FUTURE USE.

FOX LAKE ROAD

Андрей Владимирович

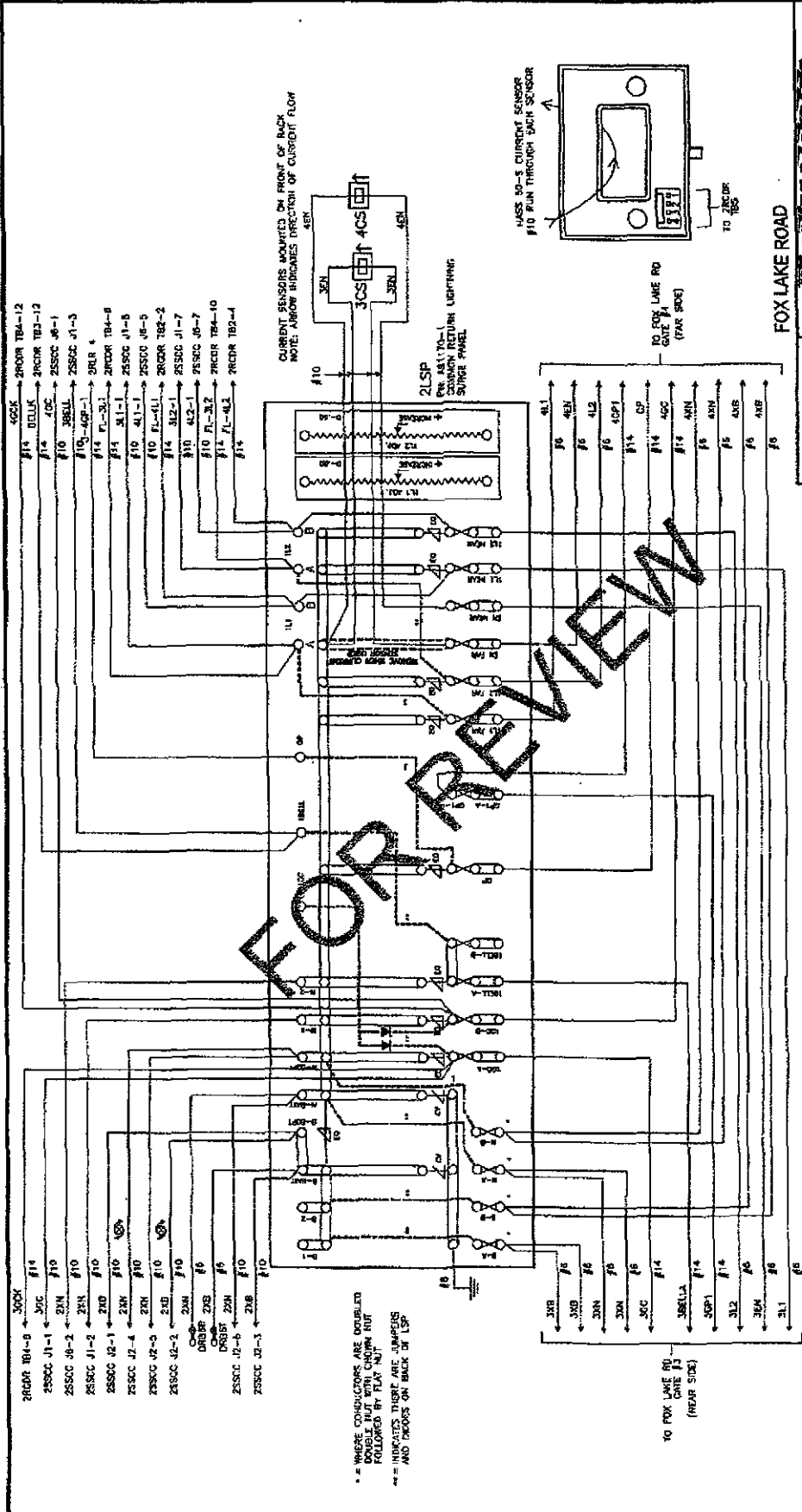
7/8/99

AND AND FOX LAKE
SMITHVILLE, OH

LAKE ROAD
OK

DATE	TIME	LOC	MSP PROCDG#	ENTAILMENT	SR NO.
08/09/07	06:12	CIC	N/A	1000	G12077
08/09/07	06:12	CIC	113.70/113.72	1000	M73
08/09/07	06:12	CIC	1000/1000/1000	1000	17 of 13

PA.0172



FOX LAKE ROAD

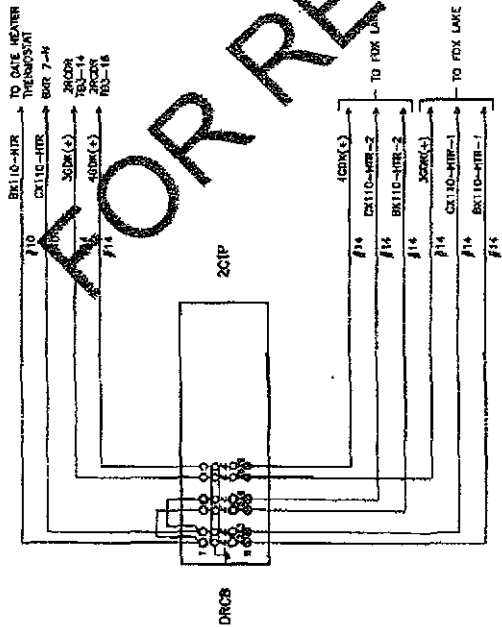
Wheeling & Lake Erie Railway

Location: EBY ROAD AND FOX LAKE ROAD, SMITHVILLE, OH

W&LE

Project No. 6/12/2012
 Revision: 1
 Date: 6/12/2012
 Drawn: J. L. H. 118.10/118.22
 Check: J. L. H. 118.10/118.22
 Project: 118.10/118.22
 Sheet: 20 of 31

NOTE: ALL WIRING THIS SHEET #14 AND UNLESS NOTED OTHERWISE.



FOR REVIEW

FOX LAKE ROAD

W&LE

Winning a Lake Erie Railway

EBY ROAD AND FOX LAKE ROAD
SOUTHVILLE, OH

DATE: 4/27/2013
TIME: 2:07 PM
USER: N/A
PROJECT: 113.102/113.2
SHEET: 113.102/113.202
REV: 113.102/113.202
BY: N/A
CHECKED: N/A
APPROVED: N/A
CITY: N/A

W&LE

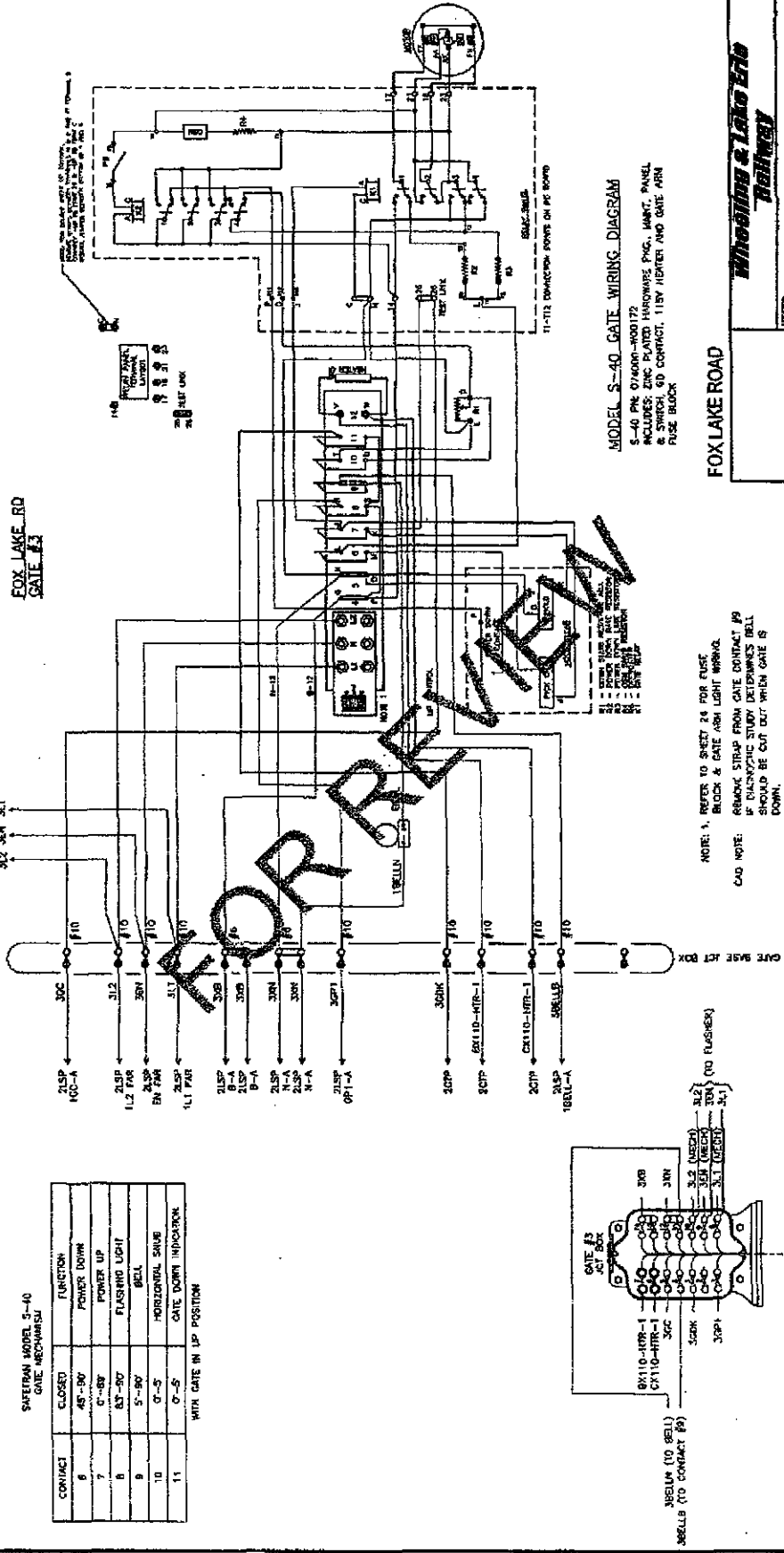
SAFETMAN MODEL S-40
GATE MECHANISM

CONTACT	CLOSED	FUNCTION
6	4ST-50	POWER DOWN
7	0-50	POWER UP
8	4ST-50	FLASHING LIGHT
9	5-50	BELL
10	0-5	HORIZONTAL SHAFT
11	0-5	GATE DOWN INDICATION

WITH GATE IN LP POSITION

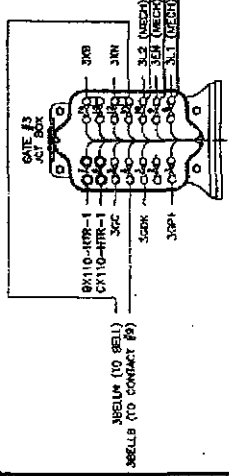
TO MAST MOUNTED FLASHERS
(SHEET 24 FOR DETAILS)

3/2 JEN 3/1



MODEL S-40 GATE WIRING DIAGRAM
S-40 PH. 014000-100172
INCLUDES ZINC PLATED HARDWARE PING, MANT. PANEL
& SWITCH, 50 CONTACT, 115V HEATER AND GATE ARM
FUSE BLOCK

NOTE 1: REFER TO SHEET 24 FOR FUSE
BLOCK & GATE ARM LIGHT WIRING.
CAD NOTE: REMOVING STRAP FROM GATE CONTACT #9
AT DYNAMIC STUDY DELIVERS BELL
SHOULD BE CUT OUT WHEN GATE IS
DOWN.



FOX LAKE ROAD

Wheeler & Lake Erie
Railway

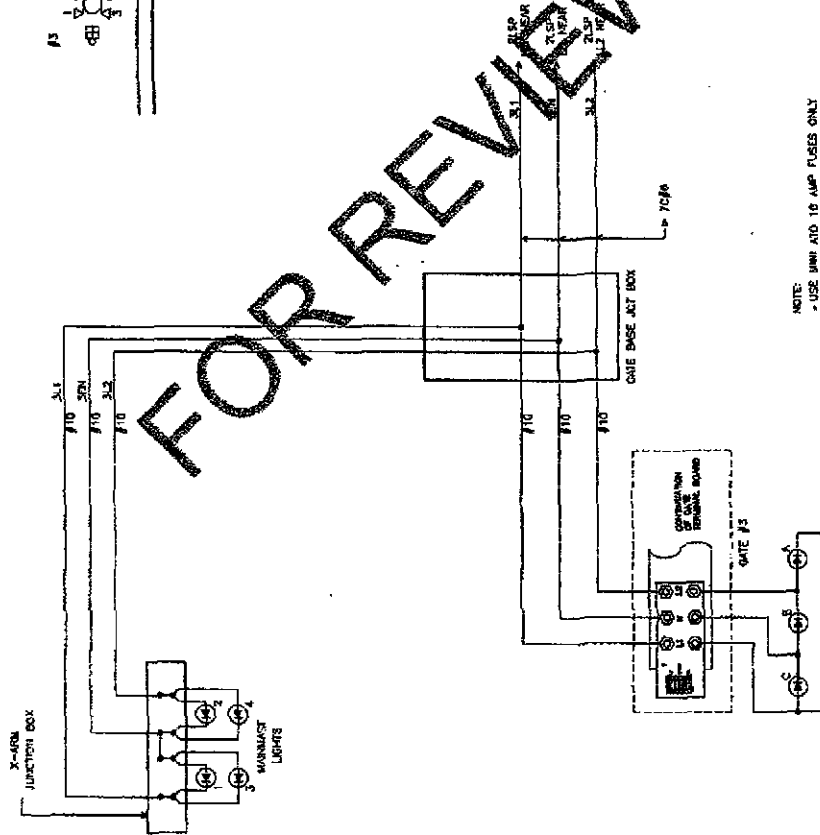
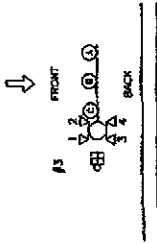
ERY ROAD AND FOX LAKE ROAD
SMITHVILLE, OH

DATE	01/2/2012	BY	DATE	01/2/2012
DESIGN	WJA	CHK	DATE	01/2/2012
REVISION	01	DATE	01/2/2012	
BY	WJA	CHK	DATE	01/2/2012
BY	WJA	CHK	DATE	01/2/2012
BY	WJA	CHK	DATE	01/2/2012

W&LE

Sheet 24 of 33

FOX LAKE RD
GATE #3



NOTE:
- USE MIN 10 AMP FUSES ONLY
(M) S-LED SYMBOL ONLY, INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

FOX LAKE ROAD

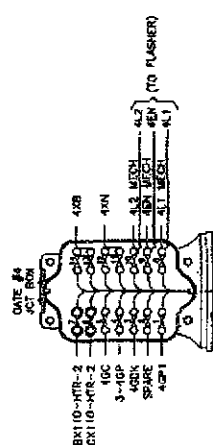
Wheeling & Lake Erie
Railway

ERY ROAD AND FOX LAKE ROAD
SMITHVILLE, OH

W&LE

DATE	8/28/2013	TIME	08:13	LOCATION	ERY ROAD AND FOX LAKE ROAD (NEAR 300)
PROJECT	DL	NO	M/A	DATE	01/20/17
PROJECT	DL	NO	115.70/115.77	DATE	01/20/17
PROJECT	DL	NO	115.70/115.77	DATE	01/20/17
PROJECT	DL	NO	115.70/115.77	DATE	01/20/17

10/20/17



9-40 PM: 074000-W001372
(INCLUDES ZINC PLATED HARWARE, PING, PANEL
& SWITCH, OD CONTACT, 115V HEATER AND GATE ARM
FUSE BLOCK)

THE NEW YORK PUBLIC LIBRARY

ALFA ROMEO

EEY ROAD AND FOX LAKE ROAD

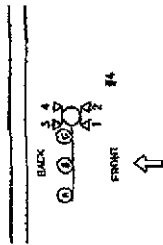
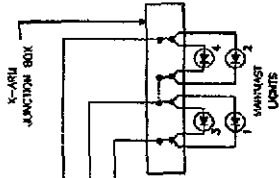
SMITHVILLE, OH

GATE #4 MECHANISM (FAR SIDE)

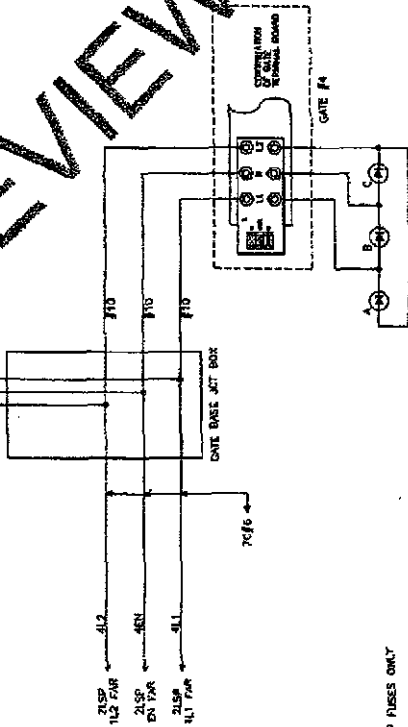
W/A	115.70/115.72	100%	115.72
			115.72

FILE NO. 2005-1073	DATE 2-5-06
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FOX LAKE RD
GATE #4



FOR REVIEW



NOTE:
* USE 4N AND 10 AMP FUSES ONLY
(*) IS LED SYMBOL ONLY. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS

FOX LAKE ROAD

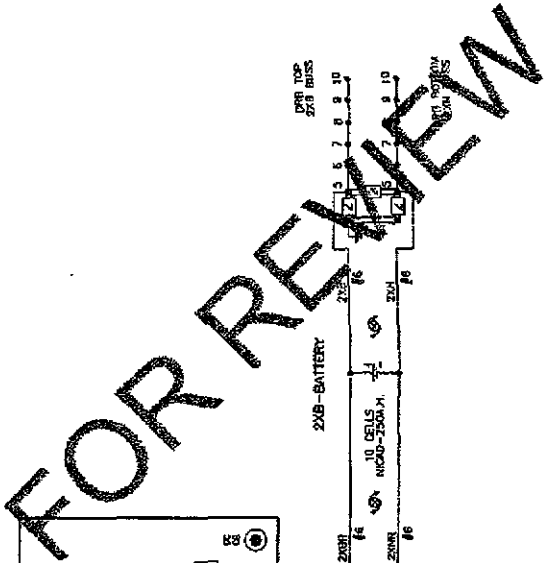
Wheeling & Lake Erie
Railway

EBY ROAD AND FOX LAKE ROAD
SMITHVILLE, OH

W&LE

PROJECT NO.	5/01/2012	ISSUE NO.	1	DATE	05/01/2012
DESIGNER	470	SCALE	N/A	PROJECT NO.	0112077
REVISION	470	DATE	11/13/12	REVISION	N/A
APPROVED	470	DATE	11/13/12	APPROVED	N/A
PROJECT	470	DATE	11/13/12	PROJECT	N/A

W&LE



BATTERY BUSS DETAILS	
DOOR SWITCH	10
1800 INPUT 5	9
2PROC TB1-2	8
SPARE	7
2LSP 8-BATT	6
2X8 BATT+	5
2X8 BUSS (TOP)	
250CC J3-11	
1800 INPUT 6	
2PROC TB1-1	
2PROC TB1-15	
2LSP 8-BATT	
2X8 BATT-	
2X8 BUSS (BOTTOM)	

FOX LAKE ROAD

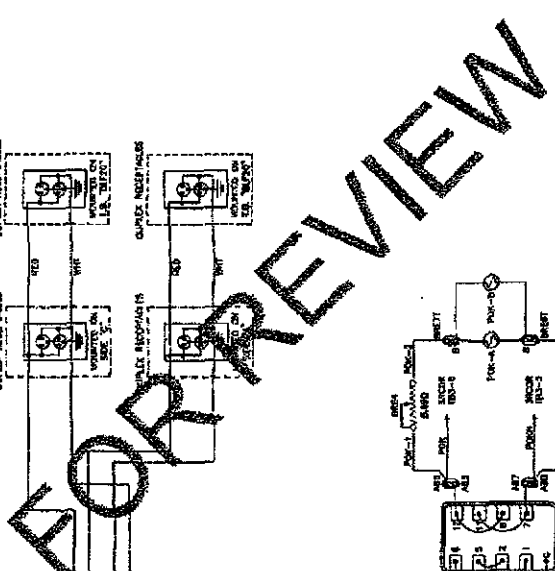
**Wheeling & Lake Erie
Railway**

W&LE

EBBY ROAD AND FOX LAKE ROAD
SMITHVILLE, OH

STANDARD NAME	B-78/70/53	ONLY	SIDE "D" BATTERIES 61400009	DATE MOD.	CST12077
REVISION		SUN	N/A		
TOTAL HOURS	CYC		15.70 / 15.72	WEEK	1"-2"
REMARKS	CYC		REF NO JTS 3000/JTS 2070	UNIT	5 OF 53

	Is Cytology itself painful?
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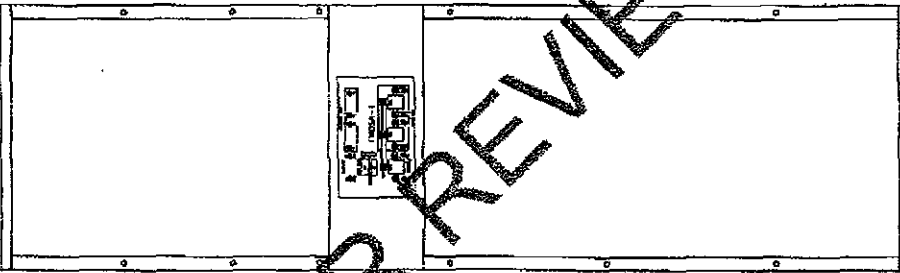
**ARMED
REVOLUTION & LABORERS**

EBY ROAD AND FOX LAKE ROAD
SMITHVILLE, OH

W87E

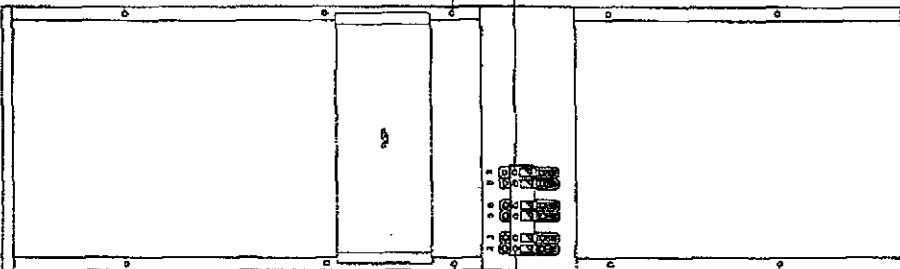
ISSUE NO.	DATE	AC POWER DISTRIBUTION	CITE NO.
ISSUE NO.	5/17/02	304 M/A	C118077
ISSUE NO.	C118	115.70/115.72	304 N.T.S.
ISSUE NO.	C118	304 253 2037/413 2050	1181
ISSUE NO.	C118		27 of 33

BACK OF LEFT SIDE
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

BACK OF RIGHT SIDE
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

FOR REVIEW

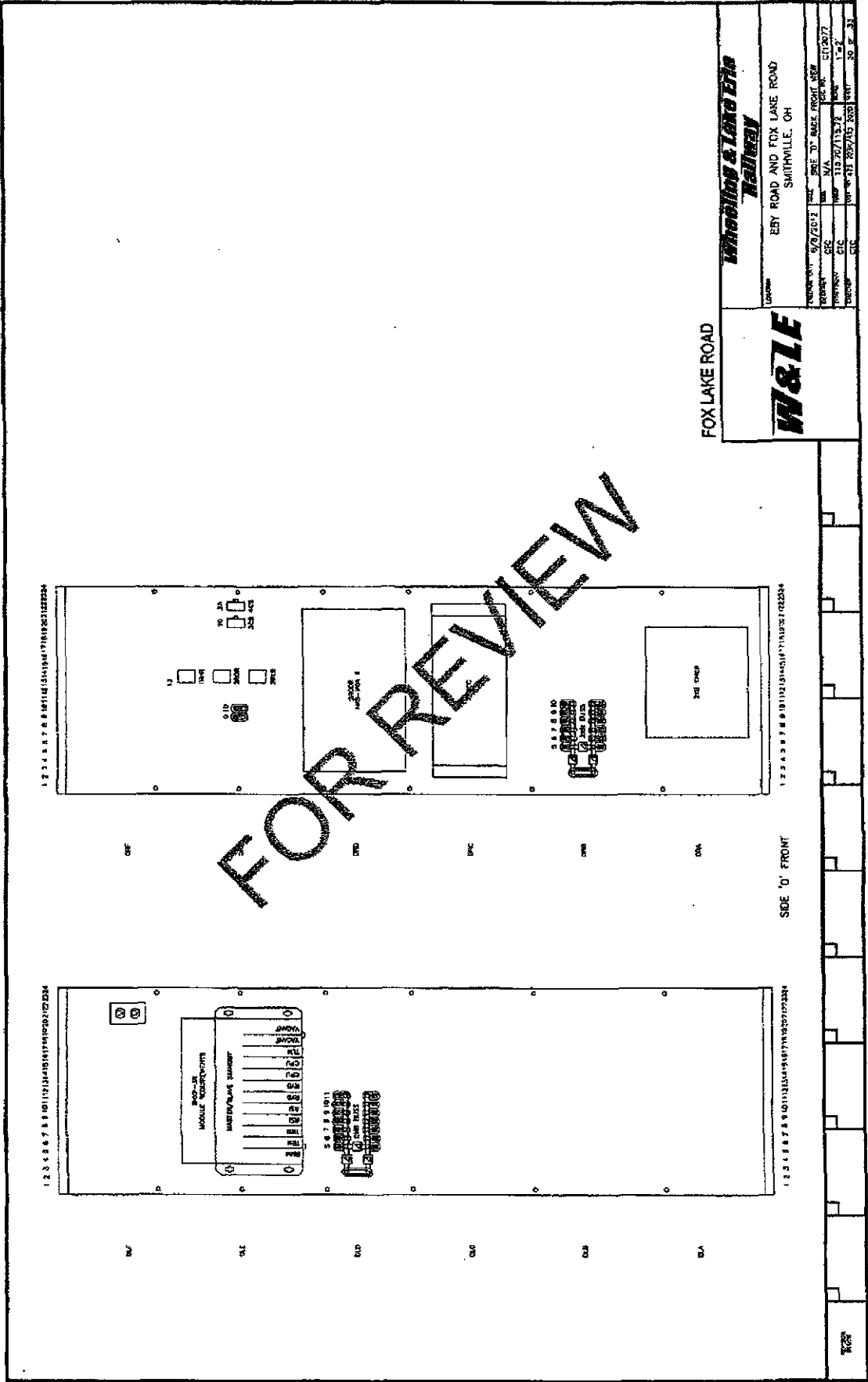
EBY ROAD

Wheeling & Lake Erie
Railway

EBY ROAD AND FOX LAKE ROAD
SMITHVILLE, OH

W&LE

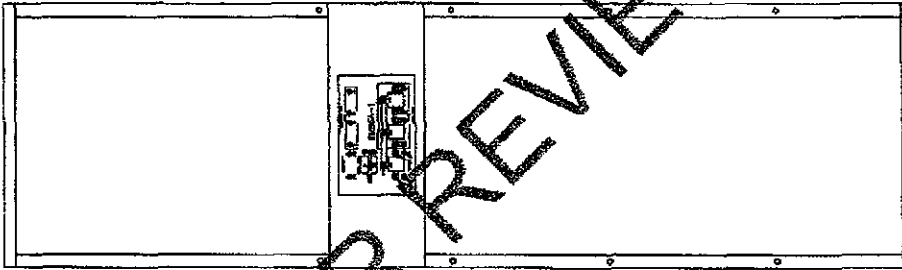
NO. 1000	DATE	5/1/2012	FILE	508	3" BACK	BACK VIEW
REVISION	BY	AJA	DATE	11/5/2011	11/5/2011	11/5/2011
REVISION	BY	CLC	DATE	11/5/2011	11/5/2011	11/5/2011
REVISION	BY	CLC	DATE	11/5/2011	11/5/2011	11/5/2011



FOX LAKE ROAD

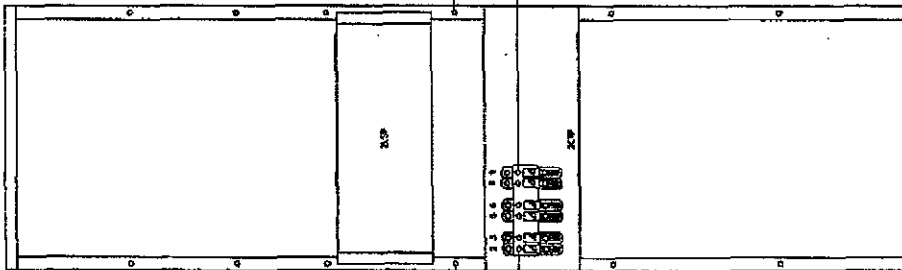
W&L		Whitcomb & Land Engineering	
Location		ERY ROAD AND FOX LAKE ROAD SMITHVILLE, OH	
Project No.	6/0/2013	Scale	1/4" = 1'-0"
Revision	01	Date	01/02/17
Author	W&L	Check	W&L
Drawn	W&L	Scale	1/4" = 1'-0"
Sheet No.	23	Total Sheets	33

BACK OF LEFT SIDE
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

BACK OF RIGHT SIDE
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24



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FOX LAKE ROAD

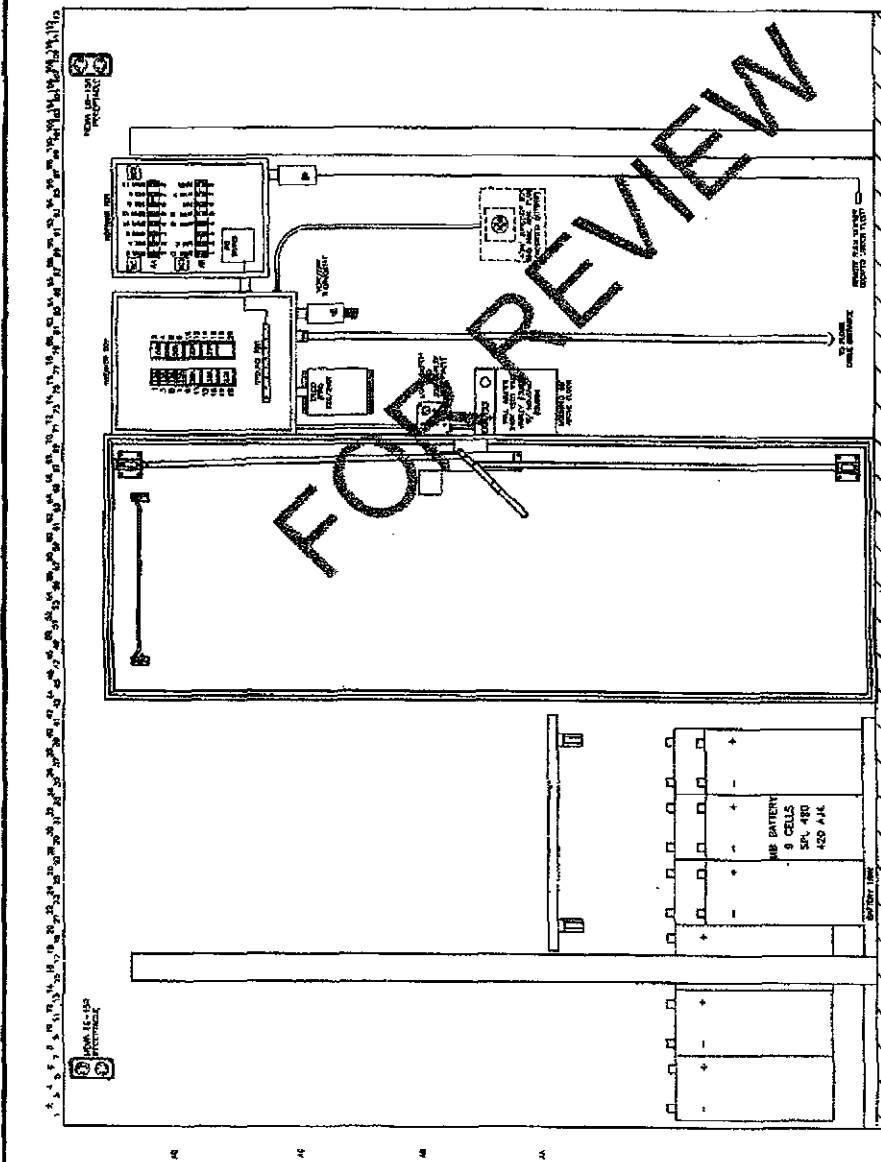
**Wheeling & Lake Erie
Railway**

EBY ROAD AND FOX LAKE ROAD
SARTHVILLE, OH

W&LE

DATE	06/26/2013	TIME	10:00 AM	BY	CT12077
REVISION	010	DATE	11/15/12	BY	CT12077
DESCRIPTION	CTC	DATE	11/15/12	BY	CT12077
REVISION	010	DATE	11/15/12	BY	CT12077

Sheet
2001



EBY / FOX LAKE

Wheeling & Lake Erie
Railway

EBY ROAD AND FOX LAKE ROAD
SOUTHVILLE, OH

W&LE

PROJECT NO.	6/6/1013	FILE	SR05 'A'
DESIGNER	CIC	REV	N/A
DATE	11/15/1972	BY	GT/2017
PROJECT	CIC	DATE	11/15/1972
PROJECT	CIC	DATE	11/15/1972
PROJECT	CIC	DATE	11/15/1972

INVOICE BOOK

