

FILE


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2008 MAY -7 AM 11:35

Public Utilities  
Commission of Ohio

PUCO

# Memo

**To:** Docketing Division  
**From:** George Martin, Grade Crossing Planner, Rail Division   
**Re:** In the matter of the authorization of the Wheeling & Lake Erie Railway and Norfolk Southern Railway to construct active grade crossing warning devices in Crawford, Preble, and Montgomery Counties  
**Date:** May 7, 2008

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The Ohio Rail Development Commission (ORDC) has authorized funding for the Wheeling & Lake Erie Railway (WE) and Norfolk Southern Railway (NS) to construct active grade crossing warning devices at the following locations:

WE

Crawford County, Cranberry Township, Swabb Rd/TR 42, DOT# 001-940S

NS

Preble County, Somers Township, Swann Beatty Rd/TR 208, DOT# 525-174Y

Montgomery County, City of West Carrollton, Kimberly Rd, DOT# 524-642V

These crossing improvements are actual cost and will be federally funded. Staff requests an Entry with plans and estimates to be submitted to the Commission and ORDC within 90 days and completion within one year. Upon approval of the plans and estimates by ORDC construction may commence. A suggested case coding and heading would be:

PUCO Case No. 08- 574 -RR-FED In the matter of the authorization of the Wheeling & Lake Erie Railway and Norfolk Southern Railway to construct active grade crossing warning devices in Crawford, Preble, and Montgomery Counties

C: Legal Department

Please serve the following parties of record

Ms Susan Kirkland  
Ohio Rail Development Commission  
50 W Broad St, 15<sup>th</sup> Floor  
Columbus, Oh 43215

Mr. Dan Reinsel  
Wheeling & Lake Erie Railway  
100 E. First St.  
Brewster, Oh 44613

Mr. Rick Ray  
Norfolk Southern Railway  
1200 Peachtree St. NE, Box 123  
Atlanta, Ga 30309

Cranberry Township Trustees  
5930 SR 103  
New Washington, Oh 44854

Somers Township Trustees  
392 W Hendricks St  
Camden, Oh 45311

City of West Carrollton

Office of The Mayor

300 E Central Ave

West Carrollton, Oh 45449

## OHIO RAIL DEVELOPMENT COMMISSION INTEROFFICE COMMUNICATION

TO: George Martin, Planner, Railroad Division, PUCO  
FROM: Joseph N. Reinhardt, Grade Crossing Specialist  
SUBJECT: Grade Crossing Warning Project  
DATE: April 17, 2008

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You may authorize the following warning projects to proceed with the non-field work involved with the below mentioned non-lump sum project. 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.

### Project List

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#### Wheeling and Lake Erie Railway:

Crawford County, Swabb Road, DOT 001940S

CRANBURY TWP

Thank you for your assistance with these matters.

JR:jnr

c: S. Kirkland - Files (J. Reinhardt)

RAIL DIVISION  
22 APR 22 AM 7:51  
COMMUNICATIONS  
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OHIO RAIL DEVELOPMENT COMMISSION  
INTER-OFFICE COMMUNICATION

TO: George Martin, Planner, Railroad Division, PUCO  
FROM: Susan Kirkland, Supervisor, Rail-Highway Safety Section  
BY: Tim Perkins, Grade Crossing Specialist *Tim Perkins*  
SUBJECT: Grade Crossing Warning Projects  
DATE: April 30, 2008

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You may authorize the Norfolk Southern (NS) to proceed with the non-field work for these projects. 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. The construction portion and preliminary engineering will be financed with federal funds.

Please initiate a one (1) year order with the plan and estimate due in ninety (90) days for the following.

PRE-T.R. 208, Swann Beatty Road - NS AAR No. 525 174 Y (Actual cost) *Somers TWP*

MOT-Kimberly Road - NS AAR No. 524 642 V (Actual cost) *CITY OF W. CARROLLTON*  
*CARROLLTON*

Attached is a diagnostic form for each location, these crossings are being upgraded to lights and gates. *CARROLLTON*

Thank you for your assistance with this matter.

TP:tp

RAIL DIVISION

2008 MAY 5 4:00 PM

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MAY 13 2008  
RAIL DIVISION



Ohio Rail Development Commission  
50 W. Broad Street, Suite 1510  
Columbus, OH 43215

## Diagnostic Review Team Survey

Date: 3-31-08

Street or Road Name: <b>Swabb Road</b>			
Route/Road Number (I.e. Twp., Co., SR or US) <b>TWP. 42</b>		AAR-DOT No.: <b>001940 S</b>	
County: <b>CRA</b>	Township: <b>Cranberry</b>	City: (In or Near) <b>New Washington, Chittfield</b>	
Railroad Name: <b>WLE</b>	Railroad Division: <b>BL-SS-AC&amp;N LINE</b>	Branch/Line Name:	
Nearest RR Timetable Station: <b>New Washington</b>		RR Milepost: <b>81.55</b>	

(Include: Name - Organization - Phone Number)

1. **Joe Reinhardt, ORAC, 614-644-0291**
2. **Buster Nelson, Cranberry Twp., 419-492-2057**
3. **Louis J. Harrison, CRANBERRY TWP, 419-492-2892**
4. **Tom Shabby, Cranberry Twp., 419-492-2275**
5. **GEORGE MARTIN, PUCB, 614-752-9107**
6. **Cecil Newcome, County Engr**
7. **DAN Reinse, WLE, 330-767-7202**
8. \_\_\_\_\_
9. \_\_\_\_\_

## Existing Traffic Control Devices

Type of Warning Devices	Installed?		Quantity/Comments
Advance Warning Signs	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<b>ONE IN NORTH Quad only</b>
'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	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Crossbucks	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<b>TWO Buckeye</b>
Number of Tracks Signs	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Inventory Tags	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<b>TWO</b>
Interconnected Highway Traffic Signal	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Mass-Mounted Flashing Lights	<input type="checkbox"/> Yes	<input checked="" 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 type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
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 type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Is crossing flagged by train crew?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Other	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	

Safety Note: (Obtain crash reports in local media for review)		
	Initial Information (from database)	Revised
Number & dates of crashes in previous 5 years	ONE - Two Injuries 8/7/07	
Hazard Ranking	201 Date Run: 2/6/08	
<b>Railroad Data</b>		
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	ONE	
Number of main tracks	ONE	
Number of other tracks		
Maximum train speed		
Typical train speed		
Amtrak	NONE	
If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table 1) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>OK</i>		
If multiple tracks, can two trains occupy crossing at the same time? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Can one train block the motorists' view of another train at crossing? <input type="checkbox"/> Yes (Explain below) <input checked="" type="checkbox"/> No		
Are there other track(s) crossing this same roadway within 100 ft of this crossing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
If yes, Crossing DOT # (if different) _____		
If yes, distance _____ (take measurement between track centerlines at closest point along roadway)		
<b>Roadway Data</b>		
Local Highway Authority: <u>Cranberry &amp; Chatfield Twp</u>		
Roadway Characteristics	Initial Information (from database)	Revised
Average daily traffic	193	
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: <u>18</u> ft.		
Number of highway lanes	TWO	
Urban or Rural	RURAL	
Vehicle Speed: <u>55</u> MPH		
School Bus Operation: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <u>3</u> Amount		
Hazardous Materials Trucks: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes _____ Amount		
Shoulders: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes		
Is the shoulder surfaced? <input checked="" type="checkbox"/> No <input 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 <u>NW</u> 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 <u>SE</u> 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 checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Is sidewalk present? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
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 it the consensus of the Diagnostic Review Team that this is a potential closure project: <input type="checkbox"/> No <input type="checkbox"/> Yes Explain reasons:	

### Type of Development

<input checked="" type="checkbox"/> Open Space <input type="checkbox"/> Industrial <input type="checkbox"/> Residential	<input type="checkbox"/> Institutional <input type="checkbox"/> Commercial	Location of nearby schools: <u>New Washington</u>
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### Utility Information

Is commercial power available? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Utility Provider (Company Name) <u>North Central Electric</u>	Phone Number _____
Nearest Available Power Source <u>419-426-3072</u>	
What other utilities are present? <u>GTE</u>	
Is there potential utility conflict(s) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	

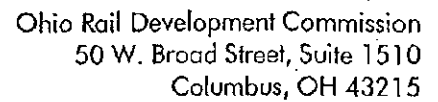
### Diagnostic Team Recommendations

Recommendations	Quadrants Needed
<input checked="" type="checkbox"/> Install/upgrade active devices	
<input type="checkbox"/> Automatic Flashing Lights (AFLS)	
<input type="checkbox"/> AFLS / Cants	
<input checked="" type="checkbox"/> AFLS / Gates	
<input type="checkbox"/> AFLS / Gates / Cants	
<input type="checkbox"/> Upgrade circuitry	
<input type="checkbox"/> Sidelights	
<input type="checkbox"/> Guardrail Needed	
<input type="checkbox"/> Install/Replace curb	
<input type="checkbox"/> Other (define)	

Comments: 41" PIPE WILL BE USED TO EXTEND PIPE IN NE Quadrant WITH APPROX. FIFTYFEET IN LENGTH.

<input type="checkbox"/> Install/upgrade traffic signal preemption	<input type="checkbox"/> No improvements needed
<input type="checkbox"/> Other (define)	





Date: 3.14.08

On-Site Review Team		
(Include: Name - Organization - Phone Number)		
1.	TIM PERKINS	ORDC 614.644.0284
2.	J. Hughes Simmonson	Preble Co. 937-456-4608
3.	Tommy Moreland	" " -4600
4.	Nancy R. Mumy	NSRR Supervisor 765-730-1485
5.	ANTHONY HARDWICK	NSRR 937-564-1132
6.	GEORGE MARTIN	PVCO 614-752-9107
7.		
8.		
9.		

UPDATED (12/2006)

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

	Initial Information (from database)	Revised
Number & dates of crashes in previous 5 years		
Hazard Ranking	Date Run:	

**Railroad Data**

Railroad Characteristics	Initial Information (from database)	Revised
Total trains per day	28	
< 1 per day		
Day thru trains	12	
Night thru trains		
Daytime switching movements	> 2	
Nighttime switching movements		
Total number of tracks	1	
Number of main tracks	1	
Number of other tracks		
Maximum train speed	60	
Typical train speed		
Amtrak	No	

If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table 1) ☒ Yes ☐ NoIf multiple tracks, can two trains occupy crossing at the same time? ☐ Yes ☐ No *SINGLE TRACK*Can one train block the motorists' view of another train at crossing? ☐ Yes (Explain below) ☐ NoAre 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: *SOMERS TOWNSHIP*

Roadway Characteristics	Initial Information (from database)	Revised
Average daily traffic	158	
Highway paved	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Roadway Surface: <input type="checkbox"/> Blacktop <input type="checkbox"/> Gravel <input type="checkbox"/> Concrete <input type="checkbox"/> Other _____		
Roadway width: <i>15</i> ft.		
Number of highway lanes	2	
Urban or Rural	<i>RURAL</i>	
Vehicle Speed: <i>35</i> MPH		
School Bus Operation: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes _____ Amount		
Hazardous Materials Trucks: <input type="checkbox"/> No <input type="checkbox"/> Yes _____ Amount <i>UNKNOWN</i>		
Shoulders: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		
Is the shoulder surfaced? <input checked="" type="checkbox"/> No <input 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 checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Is sidewalk present? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
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 type="checkbox"/> No <input type="checkbox"/> Yes	
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:	

### Type of Development

<input checked="" type="checkbox"/> Open Space <input type="checkbox"/> Industrial <input type="checkbox"/> Residential	<input type="checkbox"/> Institutional <input type="checkbox"/> Commercial	Location of nearby schools:
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### Utility Information

Is commercial power available? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	
Utility Provider (Company Name) <u>DP&amp;L</u>	Phone Number _____
Nearest Available Power Source _____	
What other utilities are present? <u>UNKNOWN</u>	
Is there potential utility conflict(s) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown	

### 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 checked="" type="checkbox"/> AFLS / Gates	
<input type="checkbox"/> AFLS / Gates / Cants	
<input type="checkbox"/> Upgrade circuitry	
<input type="checkbox"/> Sidelights	
<input type="checkbox"/> Guardrail Needed	
<input type="checkbox"/> Install/Replace curb	
<input type="checkbox"/> Other (define)	

Comments: <u>Advance Warning Sign</u> <u>(DMUTCH) Ohio Manual W67-B, and Federal Manual (Part 8) W10-3</u> <u>should be added on C.R. 227.</u>	
<input type="checkbox"/> Install/upgrade traffic signal preemption	
<input type="checkbox"/> No improvements needed	
<input type="checkbox"/> Other (define)	

# Field Dimensions

4

Show North  
Direction

Sidewalk

Parkway

Roadway

7.5'

7.5'

Roadway

Parkway

Sidewalk

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

Measurements by: \_\_\_\_\_

Field Sketch

3.14.08

A  
N

Box Culvert

15'

T.R. 208, Swann Beatty

AAR No.

525 1744

Passive Crossing  
Buckeye Crossbuck

26'

C.R. 227

Advance Warning Sign  
W10-3 or W67B  
should be added  
North and South of  
C.R. 227.

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.



## Diagnostic Review Team Survey

Date: 2-12-08

<b>Location Data</b>		
Street or Road Name: <u>KIMBERLY ROAD</u>		
Route/Road Number (i.e. Twp., Co., SR or US)		AAR-DOT No.: <u>524 642 M</u>
County: <u>MONTGOMERY</u>	Township:	City: (In or Near) <u>CITY OF W. CARROLLTON</u>
Railroad Name: <u>NORFOLK SOUTHERN</u>	Railroad Division: <u>LAKE</u>	Branch/Line Name:
Nearest RR Timetable Station:		RR Milepost: <u>CT 214.45</u>

### On-Site Review Team

(Include: Name - Organization - Phone Number)

1. TIM PERKINS ORDC 614-644-0284
2. Rich Norton City of West Carrollton 937-847-4661
3. Maureen Parsons " 937-847-4662
4. Scott Wimmer NSC 937-903-2286
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_

### Existing Traffic Control Devices

Type of Warning Devices	Installed?		Quantity/Comments
Advance Warning Signs	<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	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Crossbucks	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Number of Tracks Signs	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Inventory Tags	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Interconnected Highway Traffic Signal	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Mass-Mounted Flashing Lights	<input type="checkbox"/> Yes	<input checked="" 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 type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Sidewalk Gate Arms	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
'No Turn' Signs	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Illumination	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Is crossing flagged by train crew?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
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	11-15-07 / FATAL	
Hazard Ranking	1-18-08	Date Run: 99

**Railroad Data**

Railroad Characteristics	Initial Information (from database)	Revised
Total trains per day	4	
< 1 per day	0	
Day thru trains	0	
Night thru trains	4	
Daytime switching movements	0	
Nighttime switching movements	4	
Total number of tracks	1	
Number of main tracks		
Number of other tracks		
Maximum train speed	10	
Typical train speed	< 10	
Amtrak		

If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table 1) ☐ Yes ☒ NoIf multiple tracks, can two trains occupy crossing at the same time? ☐ Yes ☐ NoCan one train block the motorists' view of another train at crossing? ☐ Yes (Explain below) ☐ NoAre 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: W. CAROLTON

Roadway Characteristics	Initial Information (from database)	Revised
Average daily traffic		
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: _____ ft.		
Number of highway lanes	2	
Urban or Rural	URBAN	
Vehicle Speed: <u>25</u> MPH		
School Bus Operation: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes _____ Amount		
Hazardous Materials Trucks: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes _____ Amount		
Shoulders: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		
Is the shoulder surfaced? <input checked="" type="checkbox"/> No <input 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 checked="" type="checkbox"/> Functional (Curb height = 4" or more) <input type="checkbox"/> Non-functional (Curb height = Less than 4") <input type="checkbox"/> None	Quadrant _____ Curb and Gutter: <input checked="" type="checkbox"/> Functional (Curb height = 4" or more) <input type="checkbox"/> Non-functional (Curb height = Less than 4") <input type="checkbox"/> None
Pedestrians: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	
Is sidewalk present? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	
Is there a nearby intersection that could cause queuing over the crossing? <input type="checkbox"/> No <input checked="" 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 type="checkbox"/> No <input checked="" type="checkbox"/> Yes	
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:	

### Type of Development

- |  |   |
|--|---|
| <input type="checkbox"/> Open Space<br><input checked="" type="checkbox"/> Industrial<br><input checked="" type="checkbox"/> Residential | <input type="checkbox"/> Institutional<br><input type="checkbox"/> Commercial |
|--|---|

Location of nearby schools: \_\_\_\_\_

### Utility Information

Is commercial power available? ☐ No ☒ Yes

Utility Provider (Company Name) DP&L

Phone Number \_\_\_\_\_

Nearest Available Power Source \_\_\_\_\_

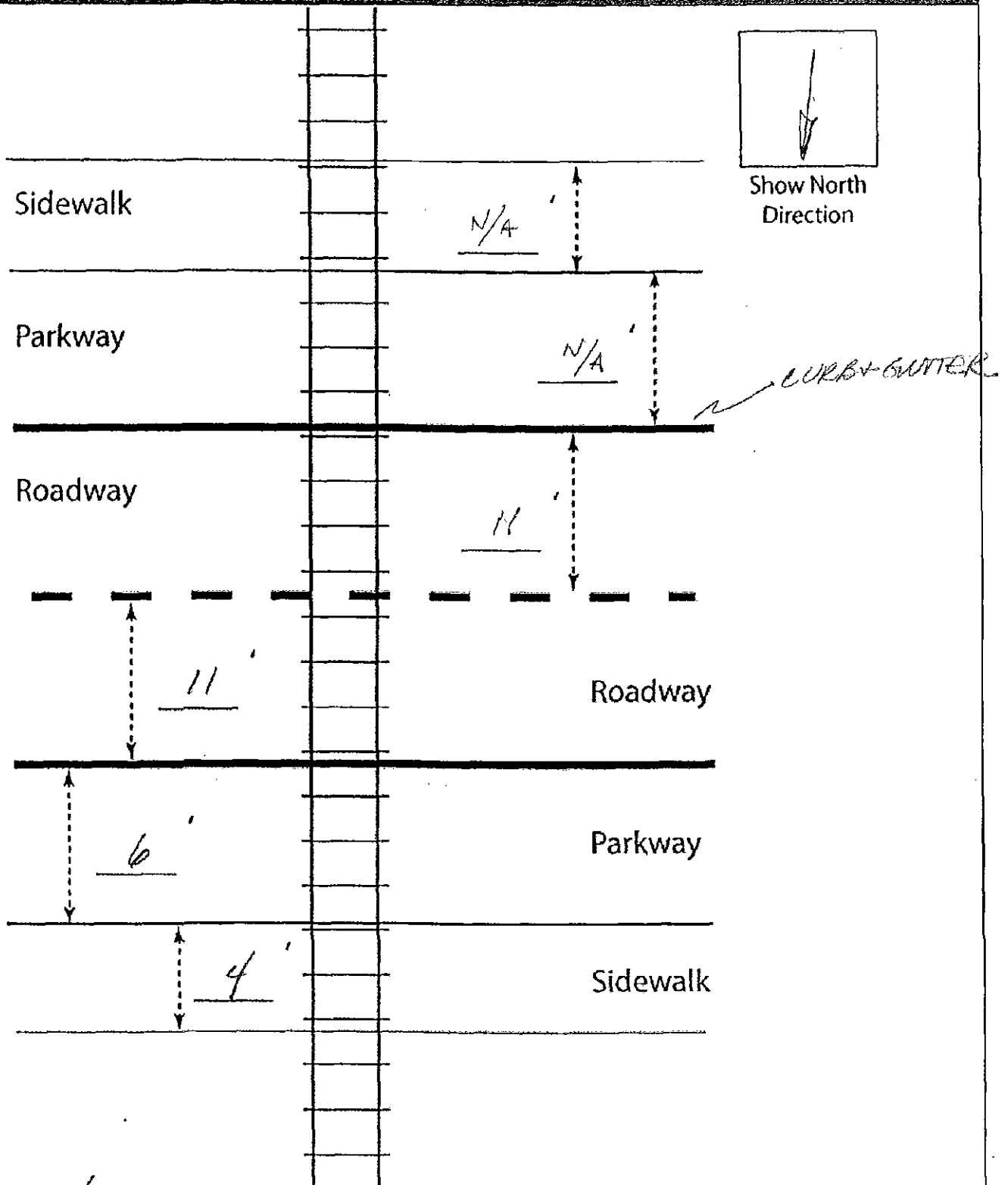
What other utilities are present? \_\_\_\_\_

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

### 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 checked="" type="checkbox"/> AFLS / Gates	
<input type="checkbox"/> AFLS / Gates / Cants	
<input type="checkbox"/> Upgrade circuitry	
<input type="checkbox"/> Sidelights	
<input type="checkbox"/> Guardrail Needed	
<input type="checkbox"/> Install/Replace curb	
<input type="checkbox"/> Other (define)	
Comments:	
<input type="checkbox"/> Install/upgrade traffic signal preemption	
<input type="checkbox"/> No improvements needed	
<input type="checkbox"/> Other (define)	

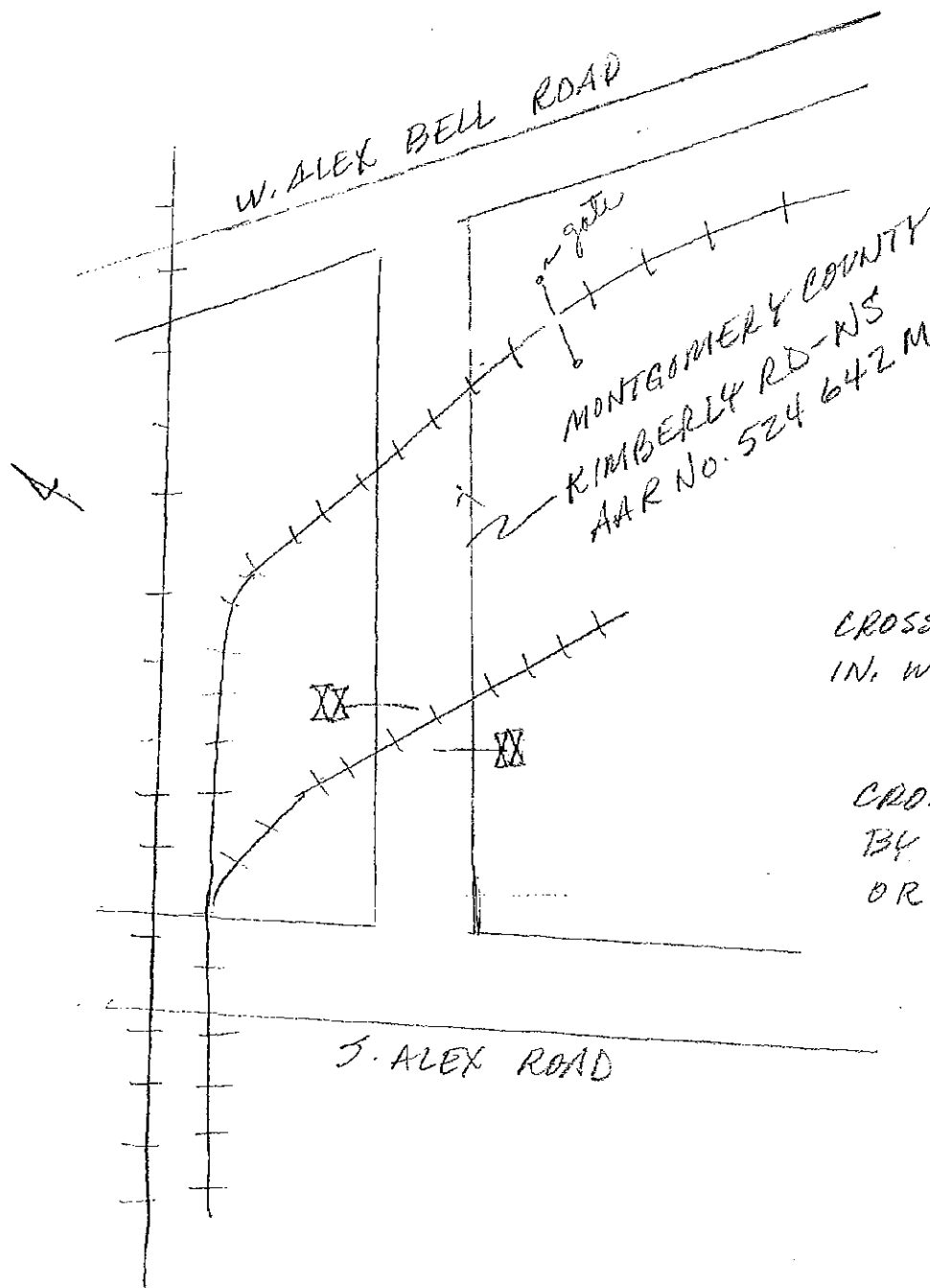
# Field Dimensions



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

Measurements by: JP

# Field Sketch



2-12-08  
PASSIVE  
CROSSING

Appetition  
Papers

CROSSING LOCATED  
IN: WEST CARROLTON

CROSSING OWNED  
BY INDUSTRY,  
OR NS.

NS CROSSING

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

Sketch by: 21

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.