



Ms Cathy Stout

Ohio Rail Development Commission

1980 West Broad St, Mailstop #3140

Columbus, Oh 43223

Mr Robert Callahan, COO

Ashtabula, Carson & Jefferson Railroad

PO Box 517

Jefferson, Oh 44047

Mr Mark Thomas

ODOT District 4

2088 S Arlington Rd

Akron, Oh 44306

Mr Terry Finger

Village Administrator

27 E Jefferson St

Jefferson, Oh 44047

The Illuminating Company (First Energy)

# OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

**TO:** Randall Schumacher, Supervisor, Rail Division, PUCO  
**FROM:** Cathy Stout, Manager, Safety Section, ORDC  
**BY:** Mike Forte', Project Manager, Safety Section, ORDC *MDF*  
**SUBJECT:** ATB SR 167, E. Beech St./AC&J Grade Crossing Project  
**DATE:** August 11, 2014 *502569F*

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The Ohio Rail Development Commission (ORDC) established a diagnostic survey at the subject location on September 26, 2013. The Public Utilities Commission of Ohio (PUCO) 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 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  
Susan Arduni, ORDC  
ORDC Project Manager (file)



# OHIO RAIL DEVELOPMENT COMMISSION

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

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

August 11, 2014

Robert W. Callahan  
Chief Operating Officer  
Ashtabula, Carson & Jefferson Railroad  
PO Box 517  
Jefferson, OH 44047

RE: State Route 167, E. Beech St., USDOT 502 569F, Grade Crossing Warning Device Project  
PID 96998

Dear Mr. Callahan:

The bid process for the referenced project has been reviewed and is acceptable. The Ashtabula, Carson & Jefferson Railroad (AC&J) 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 \$149,464.10. Additional costs must be approved in writing by the Ohio Rail Development Commission (ORDC) prior to being incurred. Emergency verbal authorizations by ORDC may be permitted but must be confirmed in writing within ten (10) business days of the verbal approval.

This authorization is contingent upon AC&J accepting the following instructions:

1. AC&J's project foreman will furnish written notification five (5) working days prior to the date work will start at the project site to Mike Forte', ORDC, email [mike.forte@dot.state.oh.us](mailto:mike.forte@dot.state.oh.us), and to the Public Utilities Commission of Ohio, email [George.martin@puc.state.oh.us](mailto:George.martin@puc.state.oh.us). AC&J'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. AC&J 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 AC&J.
3. AC&J's project foremen will notify Mike Forte' at 614-374-9287 or [mike.forte@dot.state.oh.us](mailto:mike.forte@dot.state.oh.us), 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.



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

phone: 614.644.0306

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



Michael D. Forte  
Project Manager

Attachment: ODOT P.O.

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

### Diagnostic Review Team Survey

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

Date: 9/26/13

#### Location Data

Street or Road Name: E. Beech Street

Route/Road Number (i.e. Twp., Co., SR or US) SR 167

US DOT No.: 502569F

County: ATB

Township: JEFFERSON 1/2

City: (In or Near)

Village of Jefferson Y2

Railroad Name: Ashtabula, Carson & Jeff. RR

Railroad Division: Central

Branch/Line Name: Jefferson Ind.

Nearest RR Timetable Station: Jefferson

RR Milepost: 4.81

#### On-Site Review Team

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

1.	MIKE FORTÉ	ORDC	614-374-9287
2.	Jeb DOWN	PUCO	440 213 5316
3.	Bob Callahan	ACTR	440-813-2308
4.	Marks Thomas	ODOT	330-786-4840
5.	Lena Fingler	Village	441-576-3946
6.	Melinda Schaefer	ACTR	440-813-2309
7.	Daryl Metcalf	ACTR	440-476-9954
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	2
'Stop' Signs	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
'Stop Ahead' Signs	<input type="checkbox"/> Yes	<input type="checkbox"/> No	NA
Pavement Markings (condition?)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	GOOD
Crossbucks	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	2
Number of Tracks Signs	<input type="checkbox"/> Yes	<input type="checkbox"/> No	NA
Inventory Tags	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	2
Interconnected Highway Traffic Signal	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Mast-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	Number:
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	1
Is crossing flagged by train crew?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	1F PUSHING
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 (12/27/99) & (9/21/96)	
Hazard Ranking	1585	Date Run: 9/11/13

**Railroad Data**

Railroad Characteristics	Initial Information (from database)	Revised
Total trains per day	2	
< 1 per day		JAT + SUN 4/PER DAY
Day thru trains	2	14 WEEKENDS/yr
Night thru trains		
Daytime switching movements		
Nighttime switching movements		
Total number of tracks	1	
Number of main tracks	1	
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  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) \_\_\_\_\_

If yes, distance \_\_\_\_\_ (take measurement between track centerlines at closest point along roadway)

**Roadway Data**

Local Highway Authority:	Village of Jefferson / + JEFFERSON TWP / STATE HWY	
Roadway Characteristics	Initial Information (from database)	Revised
Average daily traffic	2720 (2012)	2430 - TMIS (2012)
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:	22 ft.	
Number of highway lanes	2	
Urban or Rural	Urban	
Vehicle Speed:	MPH 35	
School Bus Operation:	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Amount ABOUT 8	
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 type="checkbox"/> No <input checked="" type="checkbox"/> Yes	
Is there existing guardrail along roadway in crossing vicinity?	<input type="checkbox"/> No <input checked="" 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
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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**

<input checked="" type="checkbox"/> Open Space <input type="checkbox"/> Industrial <input type="checkbox"/> Residential	<input checked="" type="checkbox"/> Institutional <input type="checkbox"/> Commercial	Location of nearby schools: <p style="font-size: 1.2em; text-align: center;">VOCATIONAL 2 1/2 MI.</p>
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**Utility Information**

Is commercial power available?  No  Yes

Utility Provider (Company Name) IST ENERGY Phone Number \_\_\_\_\_

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

What other utilities are present? (add locations to sketch)

<input checked="" type="checkbox"/> Gas	<input checked="" type="checkbox"/> Cable	<input checked="" type="checkbox"/> Telephone	<input type="checkbox"/> Fiber Optic Cable
<input type="checkbox"/> Petroleum	<input checked="" type="checkbox"/> Water	<input type="checkbox"/> Sanitary Sewer	
<input type="checkbox"/> Other _____			

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

Comments:



**Potential Red Flags / Project Challenges**

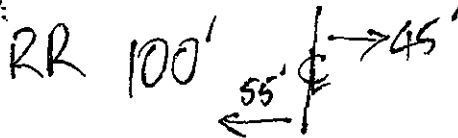
Traffic Signal Preemption (include traffic signal intersection name and LHA with jurisdiction over traffic signal, if known):

No

Crossing Consolidation or Closure:

No

Real Estate or ROW:



Culverts / Drainage / Ballast Conditions:

No

Roadway and/or Sidewalks:

No

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

No

Environmental:

No

Other:

## 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	NE + SW
<input type="checkbox"/> AFLS / Gates / Cants	
<input checked="" type="checkbox"/> Bells / number	1
<input type="checkbox"/> Upgrade circuitry / type	
<input type="checkbox"/> Sidelights	
<input type="checkbox"/> Guardrail Needed	
<input type="checkbox"/> Install/Replace curb	
<input checked="" type="checkbox"/> Bungalow placement & offset from rail & highway	PROB. NW
<input type="checkbox"/> Other (define)	

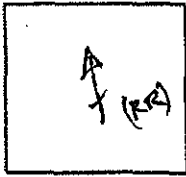
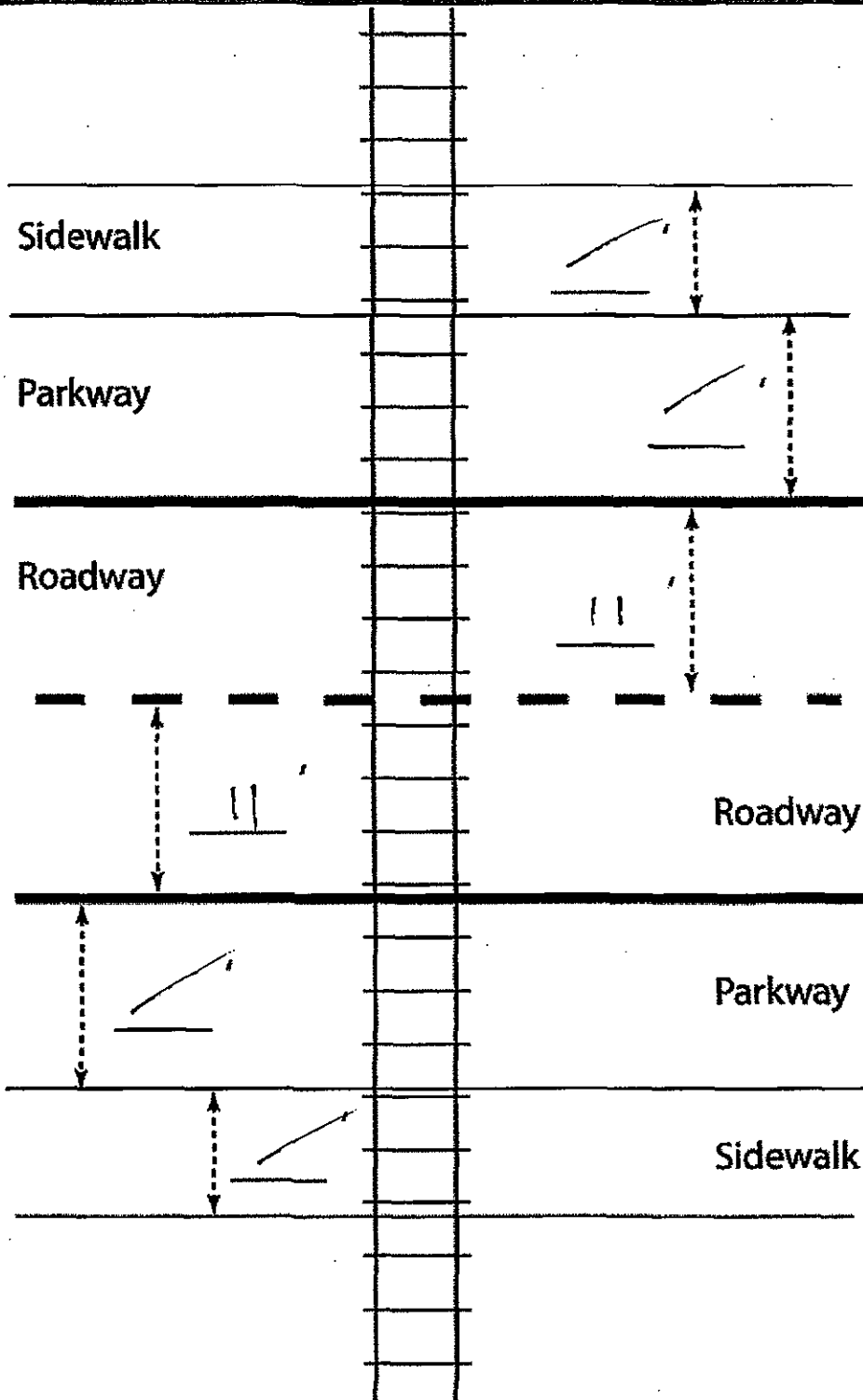
Comments:

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

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

MDE JRD W.J.M.	WCS [Signature]	JDF [Signature]
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**Field Dimensions**



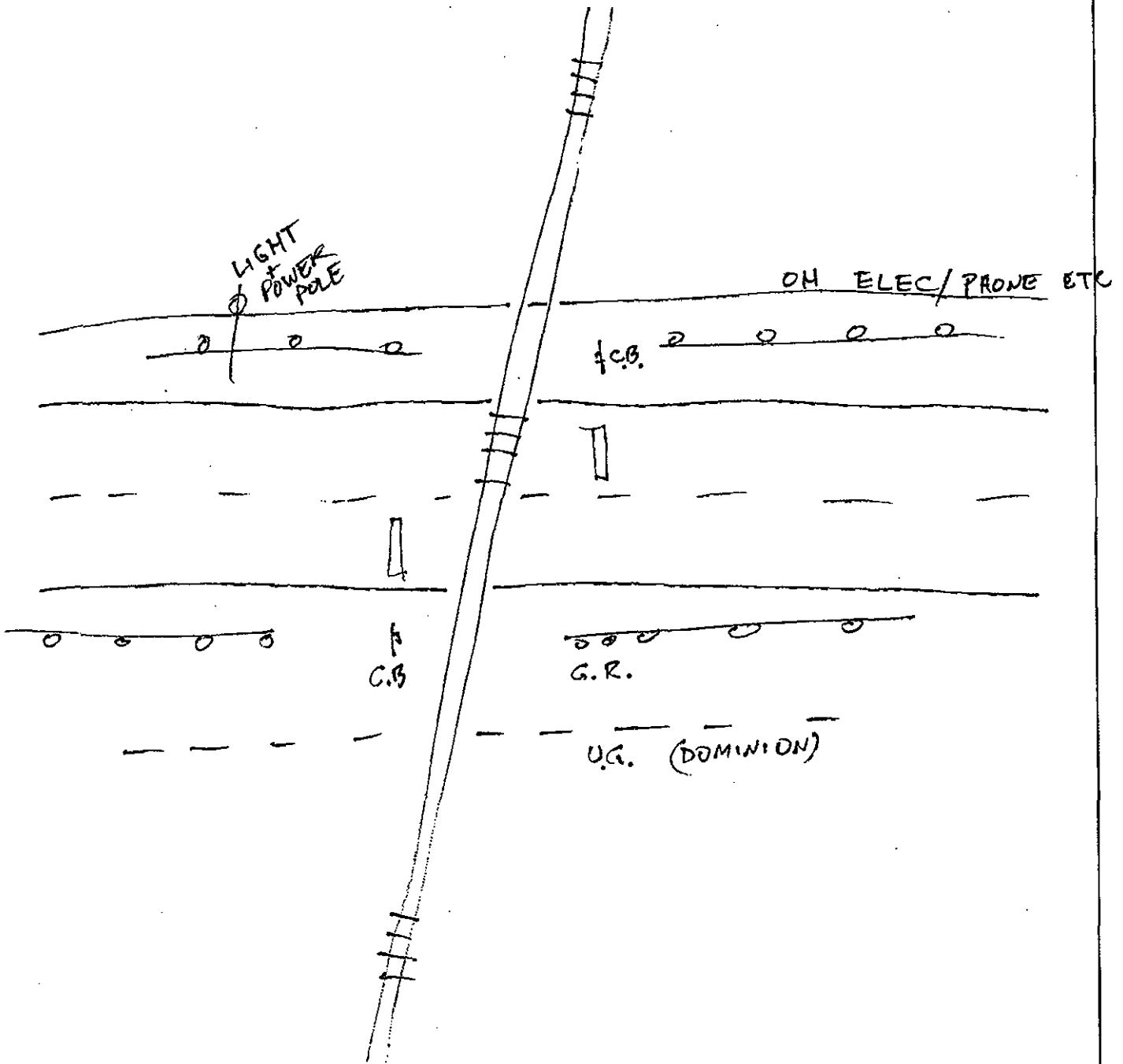
Show North Direction

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

Measurements by: NE

# Field Sketch

Include utilities as marked by OUPS and LHA; include ROW boundaries as indicated by railroad and LHA.



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

Sketch by: MDF

**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.