Public Utilities Commission of Ohio

09-530-FR-FED

Memo

FILE

To: Docketing Division

From: George Martin, Grade Crossing Planner, Rail Division

Re: American Recovery and Reinvestment Act of 2009 (ARRA) Project- Chicago, Ft. Wayne & Eastern Railroad Corridor Project in the City of Delphos, Allen and Van Wert Counties

Date: June 25, 2009

The Ohio Rail Development Commission (ORDC) has encumbered funding provided by the American Recovery and Reinvestment Act of 2009 (ARRA) to install new mast mounted flashing lights and roadway gates at the following locations in the City of Delphos:

Allen County, S Pierce St, DOT# 532-743U

Allen County, S Franklin St, DOT# 532-744B

Allen County, SR 66/S Main St, DOT# 532-745H

Van Wert County, Bredeick St, DOT# 532-749K

Van Wert County, SR 697/Ohio St, DOT# 532-750E

Van Wert County, Clay St, DOT# 532-748D

Van Wert County, Jefferson St, DOT# 532-747W

These crossings were surveyed (attached) on April 21, 2009 and were found to warrant the upgrades.

This project is actual cost. ARRA reimbursable costs shall not exceed \$778,600 These costs will be supplemented by a 15% Chicago, Ft. Wayne & Eastern (CFER) contribution of \$116,789. Any costs above the combined ARRA and CFER funding will be paid from ORDC's safety funding, up to \$2,000,000. Due to the complexity of the project and the additional reporting requirements ARRA funding recipients are responsible for, CFER and ORDC jointly request that the Commission issue an 18 month order for this project. Staff concurs with this request, having been part of the diagnostic survey team.

Staff requests an Entry with the following language included:

ARRA FUNDED PROJECT

Funding for this contract has been provided through the ARRA, and is subject to the reporting and operational requirements of ARRA. Each contractor, including the railroad and both prime and subcontractors, are subject to audit by federal or state authorities. Failure to comply with

• Page 1 This is to certify that the images appearing are an accurate and complete repreductice of a case file document delivered in the regular course of business Fechnician ______ Bate Processed _ 100 25 2009

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the terms herein may result in cancellation, termination or suspension of the contract, in whole or in part.

The Entry should direct CFER to submit site plans and cost estimates to the Commission and ORDC within 90 days, with the projects to be completed within 18 months. Upon approval of the plans and estimates by ORDC construction may commence. A suggested case coding and heading would be:

PUCO Case No. 09-(ARRA) Project-Chicago, Ft. Wayne & Eastern Railroad Corridor Project in the City of Delphos, Allen and Van Wert Counties

C:Legal Department

Please serve the following parties of record

Ms Susan Kirkland

Ohio Rail Development Commission

50 W Broad St, 15th Floor

Columbus, Oh 43215

Mr Brad Ovitt, Midwest Regional Vice President RailAmerica Operations Support Group 3510 Indian Creek Road Oxford, Oh 45056

Mr Biff Konrad Chicago, Ft. Wayne & Eastern Railway 2856 Cypress Way Cincinnati, Oh 45212

Mr Terry Frank XoRail

7235 Bonneval Rd

Jacksonville, FI 32256

Honorable Michael H Gallmeier, Mayor 608 N Canal St Delphos, Oh 45833

OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

RAIL GIV

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TO:	Leah Thomas-Dalton, Chief, Rail Division, PUCO	ျာ ယ ယ	سيرو در د ۲۱۲۵ کې ۲۰۰۷ مېرو ۲۰۰۰ مېرو
FROM:	Susan Kirkland, Manager, Safety Section, ORDC		·•
SUBJECT:	American Recovery and Reinvestment Act of 2009 (ARRA) Project		
	Grade Crossing Warning Device Projects		
	Allen and Van Wert Counties, City of Delphos, CFER Corridor		
DATE:	June 16, 2009		
DATE:	June 16, 2009		

The Ohio Rail Development Commission (ORDC) has identified the above mentioned rail corridor to have the grade crossings upgraded to flashing light signals and roadway gates through funding provided by the American Recovery and Reinvestment Act of 2009 (ARRA). Specifically, these crossings are:

ALL	S. Pierce St.	DOT # 532743 U
ALL	S. Franklin St.	DOT # 532744B
ALL	SR66-11.60, S. Main St.	DOT # 532745H
VAN	Bredeick St.	DOT # 532749K
VAN	SR697-6.73	DOT # 532750E
VAN	Clay St.	DOT # 532748D
VAN	Jefferson St.	DOT # 532747W

In addition to the crossings listed above, it is anticipated that S. Canal Street, 532746P, shall be permanently closed. This closure is being progressed as a stand alone consolidation project. The ORDC anticipates consent legislation to be enacted by the City of Delphos the latter part of June, 2009. In exchange for the closure the community has requested surface reconstruction projects.

The ORDC has secured ARRA funding for the projects under the following terms and conditions:

This project shall be completed in compliance with Agreement No. 00037-C dated August 27, 2004, entered into by the State of Ohio and the Central Railroad Company of Indianapolis dba Chicago, Ft. Wayne & Eastern (CFER) to cover the general terms and conditions to be satisfied in the implementation of the State of Ohio Grade Crossing Warning Program, including but not limited to Title 1 of Chapter 23 of the United States Code.

The ARRA reimbursable costs shall not exceed \$778,600, which includes \$40,000 for Preliminary Engineering and \$738,600 for construction and related activities. These costs will be supplemented by a 15% CFER contribution (\$116,789). The combined ARRA funding and CFE contribution (\$895,389) shall be expended first. Any costs above and

beyond the combined ARRA funding and CFER contribution shall be reimbursed from the ORDC's Safety funding at 100% of costs incurred up to a total amount of \$2,000,000.

The ORDC conducted formal diagnostic reviews at locations on April 21, 2009; PUCO was represented at the reviews. Copies of the diagnostic review forms are attached to this memo. Please have copies of the review forms added to the PUCO formal docket and distribute copies of the forms to the CFER with the PUCO Order.

As part of the PUCO Order for the warning device improvements it is important that the following language be incorporated into the text. This language is critical to the ARRA reporting requirements for Federal reimbursement.

ARRA FUNDED PROJECT Funding for this contract has been provided through the ARRA, and is subject to the reporting and operational requirements of ARRA. Each contractor, including the railroad and both prime and subcontractors, are subject to audit by federal or state authorities. Failure to comply with the terms herein may result in cancellation, termination or suspension of the contract, in whole or in part.

Due to the great complexity of the project and additional reporting requirements ARRA funding recipients are burdened with, CFER and ORDC jointly recommend that PUCO issue an 18 month Order to better allow for the proper progression of the project under both federal and state law.

For informational purposes, a copy of the letter agreement and additional ARRA terms is attached to this memo, along with Form FHWA-1589, the form railroads and contractors will be using to fulfill the additional ARRA reporting requirements. Tom Burns, Stimulus Coordinator for the ORDC will be the point of contact for any ARRA-related questions. His number is 614-644-0293, or he may be reached via email at <u>Thomas.burns@dot.state.oh.us</u>.

Lastly, as with all ORDC authorizations, 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.

Thank you for your assistance with these matters.

c: Mr. Brad Ovitt, Midwest Regional Vice President, RailAmerica Clinton Martin, Director Signals and Communications, RailAmerica Ms. Heather L. McColeman, PE, ODOT Tiger Team T. Darfus, Project Manager, ORDC (project files) T. Burns, Stimulus Coordinator, ORDC

a: Eight (8) with original



Ohio Rail Development Commission

50 West Broad Street, Suite 1510, Columbus, Ohio 43215 614-644-0306 (telephone) • 614-728-4520 (fax) • www.dot.state.oh.us/ohiorail

May 8, 2009

Mr. Brad Ovitt, Midwest Regional Vice President Rail America Operations Support Group, Inc. 3510 Indian Creek Road Oxford, OH 45056

Re: VanWert and Allen Counties, City of Delphos CF&E Safety Corridor

Dear Mr. Ovitt:

The Ohio Rail Development Commission (ORDC) has identified above mentioned rail corridor for the grade crossings to be upgraded to flashing light signals and roadway gates through funding provided in part by the American Recovery and Reinvestment Act of 2009 (ARRA). Specifically, these crossings are:

ALL	City of Delphos	S. Pierce St., DOT # 532743U
ALL	City of Delphos	S. Franklin St., DOT # 532744B
ALL	City of Delphos	SR66-11.60, S. Main St., DOT # 532745H
VAN	City of Delphos	Bredeick St., DOT # 532749K
VAN	City of Delphos	SR697-6.73, DOT # 532750E
VAN	City of Delphos	Clay St., DOT # 532748D
VAN	City of Delphos	Jefferson St., DOT # 532747W

In addition to the warning device improvements, the crossing at Jefferson St., DOT # 532747W, has poor ballast conditions and will require improvements to the grade crossing surface in order to remedy this situation and allow the warning devices to operate properly. Also, in addition to the above-named grade crossing improvements, another crossing in the corridor, at S. Canal St., DOT # 532746P, will be closed to vehicular and pedestrian traffic as a part of a separate but simultaneously progressing project.

ARRA FUNDED PROJECT

Funding for this contract has been provided through the ARRA, and is subject to the reporting and operational requirements of ARRA. Each contractor, including the railroad and both prime and subcontractors, are subject to audit by federal or state authorities. Failure to comply with the terms herein may result in cancellation, termination or suspension of the contract, in whole or in part.

The attachment to this Letter Agreement further explains the requirements of the ARRA that you as a Grantee must follow. In addition, the ARRA has strict timing requirements in order to keep funds available –

Building Markets, Linking Cities and Securing Ohio's Future

Mr. Brad Ovitt, Midwest Regional Vice President May 8, 2009 Page 2

YOU MUST RESPOND TO THIS LETTER WITHIN 7 DAYS OF RECEIPT OR THE ARRA FUNDING WILL LAPSE.

This project shall be completed in compliance with Agreement No. 00037-C dated August 27, 2004, entered into by the State of Ohio and the Central Railroad Company of Indianapolis dba Chicago, Ft. Wayne & Eastern (CF&E) to cover the general terms and conditions to be satisfied in the implementation of the State of Ohio Grade Crossing Warning Program, including but not limited to Title 1 of Chapter 23 of the United States Code.

The ARRA reimbursable costs shall not exceed \$778,600, which includes \$40,000 for Preliminary Engineering and \$738,600 for construction and related activities. These costs will be split at 85% ARRA funding and a 15% CFE contribution until the ARRA funding is exhausted. Any costs above and beyond the \$778,600 of ARRA funding shall be reimbursed from the ORDC's Safety funding at 100% of costs incurred up to a total amount of \$1,500,000.

Please indicate your acceptance of the terms and conditions of this letter of Agreement by signing and returning one (1) copy to Susan J. Kirkland, Manager, Safety Programs, ORDC.

Sincerely,

Matthew R. Dietrich Executive Director

ACKNOWLEDGED AND ACCEPTED BY:

Chicago, Ft. Wayne & Eastern:

By Print Name DB Duitt Title Algunal Vice herdet

Date May 15 2009

Building Markets, Linking Cities and Securing Ohio's Future

Attachment to Letter Agreement

This Project is funded by the American Recovery and Reinvestment Act of 2009 ("ARRA"), and subject to the specific reporting and operational requirements of that law. Below are the requirements of that law, which must be complied with in order to receive reimbursement from ARRA funding.

Clause 1: Steel and Iron Products Made in the United States.

Furnish steel and iron products that are made in the United States according to the applicable provisions of Federal regulations stated in 23 CFR 635.410 and State of Ohio laws, and ORC 153.011 and 5525.21. "United States" means the United States of America and includes all territory, continental or insular, subject to the jurisdiction of the United States.

- Federal Requirements. All steel or iron products incorporated permanently into the Work must be made of steel or iron
 produced in the United States and all subsequent manufacturing must be performed in the United States. Manufacturing
 is any process that modifies the chemical content; physical shape or size; or final finish of a product. Manufacturing begins
 with the initial melting and mixing, and continues through the bending and coating stages. If a domestic product is taken
 out of the United States for any process, it becomes a foreign source material.
- 2. State Requirements. All steel products used in the Work for load-bearing structural purposes must be made from steel produced in the United States. State requirements do not apply to iron.
- 3. Applications.
 - a. When the Work is Federally funded both the Federal and State requirements apply. This includes all portions of the Work, including portions that are not Federally funded.
- 4. Exceptions. The Director may grant specific written permission to use foreign steel or iron products in bridge construction and foreign iron products in any type of construction. The Director may grant such exceptions under either of the following conditions:
 - a. The cost of products to be used does not exceed 0.1 percent of the total Contract cost, or \$2,500, whichever is greater. The cost is the value of the product as delivered to the project.
 - b. The specified products are not produced in the United States in sufficient quantity or otherwise are not reasonably available to meet the requirements of the Contract Documents. The Director may require the Contractor to obtain letters from three different suppliers documenting the unavailability of a product from a domestic source, if the shortage is not previously established.
- 5. Proof of Domestic Origin. Furnish documentation to the Engineer showing the domestic origin of all steel and iron products covered by this section, before they are incorporated into the Work. Products without a traceable domestic origin will be treated as a non-domestic product.

Clause 2: Whistleblower Protections Under the American Recovery and Reinvestment Act of 2009

- 1. The Contractor shall post notice of employees rights and remedies for whistleblower protections provided under section 1553 of the American Recovery and Reinvestment Act of 2009 (Pub. L. 111–5).
- 2. The Contractor shall include the substance of this clause including this paragraph (b) in all subcontracts.

Clause 3: American Recovery and Reinvestment Act—Reporting Requirements

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1. Reporting

The Railroad & Contractor shall complete form FHWA-1589 for each month from the date of the Notice to Proceed until completion of the Contract. The Railroad & Contractor shall be responsible for reporting their firm as well as every Subcontractors data for every tier of Subcontractor. Copies of form FHWA-1589 and instructions can be accessed via ODOT's website at the following web address:

http://www.dot.state.oh.us/divisions/communications/pages/FederalStImulusProjects.aspx

The Railroad & Contractor will report the direct, on-the-project jobs for their workforce and the workforce of their Subcontractors active during the reporting month. These job data include employees actively engaged in projects who work on the jobsite, in the project office, in the home office or telework from a home or other alternative office location. This also includes any engineering personnel, inspectors, sampling and testing technicians, and lab technicians performing work directly in support of the American Recovery and Reinvestment Act of 2009 (ARRA) funded project. This does not include material suppliers.

The Railroad & Contractor shall submit the completed form FHWA-1589 by the 10th of each month for the previous month's employment information to the Engineer AND submit the completed information online at the following address:

http://www.dot.state.oh.us/divisions/communications/pages/FederalStimulusProjects.aspx

The initial report shall be submitted to the Engineer within 30 days of execution. Subsequent reports shall be submitted to the Engineer no later than 10 days after each report month.

Clause 4: American Recovery and Reinvestment Act – Accessibility to Records and Project Sites

- 1. Accessibility to Records and Project Sites.
 - a. Section 902 of ARRA requires that each contract awarded using ARRA funds must include a provision that provides the U.S. Comptroller General and his representatives with the authority to:
 - i. Examine any records of the Contractor or any of the Subcontractors, or any State or local agency administering such contract, that directly pertain to, and involve transactions relating to, the contract or subcontract; and
 - ii. Interview any officer or employee of the Contractor or any of the Subcontractors, or of any State or local government agency administering the contract, regarding such transactions.
 - b. The Comptroller General and his representatives shall have the authority and rights as provided under Section 902 of the ARRA with respect to this contract, which is funded with funds made available under the ARRA. Section 902 further states that nothing in this section shall be interpreted to limit or restrict in any way any existing authority of the Comptroller General.
 - c. Section 1515(a) of ARRA provides authority for any representatives of an inspector general to examine any records or interview any employee or officers working on this contract. The Contractor is advised that representatives of the inspector general have the authority to examine any record and interview any employee or officer of the Contractor, its Subcontractors or other firms working on this contract. Section 1515(b) further provides that nothing in this section shall be interpreted to limit or restrict in any way any existing authority of an inspector general.

This section applies to any representatives of the Inspector General appointed under section 3 or 8G of the Inspector General Act of 1978 and other government officials duly authorized by state or federal law to examine contract records or perform interviews on ARRA funded contracts.

d. Sections b. and c. above shall be included verbatim in all of the Contractor's agreements with its Subcontractors from whom the Contractor acquires goods or services in its execution of the ARRA funded Work.

Clause 5: Davis-Bacon Act

In accordance with the ARRA this PROJECT, including force account work performed by the railroads, requires the Contractor to use only the classifications and wage rates set forth in the United States Department of Labor (USDOL) wage decision found at the website noted below on payrolls submitted to the District Office. This dictates the minimum required wages that must be paid on this PROJECT.

The wage rates for this project were determined by the Secretary of Labor in accordance with Federal-Aid requirements. Contractors shall use only the classifications and wage rates set forth in the United States Department of Labor (USDOL) wage decision found at the website noted below on payrolls submitted to the District Office. Additionally, please note that the wage modification in effect at the time of the project sale date, shall be used by all contractors. This USDOL wage decision may be viewed, by accessing the United States Department of Labor (USDOL) website at:

http://www.wdol.gov/dba.aspx#3

This contract requires the payment of the total of the basic hourly rates plus the fringe benefits payments for each classification in accordance with the following regulations which by reference are made part of this contract:

- 1. The U.S. Department of Labor Regulations, Title 29, Subtitle A, Part 5, Sections 5.5, 5.31, and 5.32, most recent revision at contract execution.
- 2. Form FHWA-1273 (most recent revision at contract execution) Part IV. Payment of Predetermined Minimum Wage and Part V. Statements and Payrolls.

The failure to pay prevailing wages to all laborers and mechanics employed on this project, shall be considered a breach of contract. Such a failure may result in the termination of the contract and debarment.

The Contractor and all subcontractors shall pay all wages and fringe benefits by company check. All payroll records and canceled pay checks shall be maintained for at least three years after final acceptance as defined in section 109.12 of the Ohio Department of Transportation Construction and Materials Specifications. The Contractor's and all subcontractors payroll records and canceled pay checks shall be made available for inspection by the Department and the U.S. Department of Labor, upon request, anytime during the life of the contract, and for three years thereafter by the U.S. Department of Labor. Additionally, the Contractor and all subcontractors shall permit such representatives to interview any employees during working hours while the employee is on the job.

The wage and fringe rates determined for this project shall be posted by the Contractor in a prominent and accessible place on the project, field office, or equipment yard where they can be easily read by the workers. These notices will be provided.

The Contractor and all subcontractors shall submit to the District Construction Office, certified payrolls each week beginning three weeks after the start of work. These payrolls shall be on a Form WH-347 or equivalent and shall show the following:

- 1. Employee name, address, social security number, classification, and hours worked.
- 2. The basic hourly and overtime rate paid, total pay, and the manner in which fringe benefit payments have been irrevocably made.
- 3. The project number and pay week dates.
- 4. Original signature of a company officer on the certification statement.

Additionally, a copy of the "Apprentice Certification" obtained from the Ohio State Apprenticeship Council, must accompany all certified payrolls submitted for all apprentices working on this project.

Please be aware that it is ultimately the responsibility of the Contractor to ensure that all laws relating to prevailing wages in the USDOL Regulations, Title 29, parts 1 and 5, are strictly adhered to by all subcontractors on the project.

If the Contractor or any subcontractor fails to comply with any of the provisions contained in this proposal note, the Department may terminate the contract, debar the Contractor or Subcontractor and/or withhold or suspend pay estimates after written notice and a reasonable opportunity to comply has been provided.

Clause 6: DUNS Numbers

1. The ARRA requires that each recipient of ARRA funding be assigned a nine-digit Dun & Bradstreet identification number followed by the four-digit optional DUNS Plus number. This identification number is issued by Dun & Bradstreet and is in the format of "999999999999999999999". This number is required in order to fulfill the reporting requirements listed in Clause 3 of this Addendum.

Clause 7: Remedies

- 1. Sanctions for Noncompliance: In the event of the Contractor's noncompliance with the Master Agreement, the above clauses, or any other document incorporated into this Agreement, the ORDC will impose such contract sanctions as it or FHWA may determine to be appropriate, including, but not limited to:
 - a. withholding of payments to the Contractor under the contract until the Contractor complies, and/or
 - b. cancellation, termination or suspension of the contract, in whole or in part.

Clause 8: Buy Ohio Provision

The Grantee shall use its best efforts to purchase goods from other companies doing business in the State of Ohio, for the purpose of performing work under this Agreement.

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Diagnostic Review Team Survey

		Date: 4-21-0	3
Location Data			
Street or Road Name: S Pierce S	,		
Route/Road Number (i.e. Twp., Co., SR or US) (include SLM	if State or US route)	AAR-DOT No: 532	143 U
County: Allen Township:	City: (In or Near)	Delphos	· · · · · · · · · · · · · · · · · · ·
Railroad Chicago Et Lland	Railroad D. J.	Branch/Lin	FINI Ling
Nearest RR	LIVISOL T. HOUDRAN	RR Milepost:	FT Mailre Line
Timetable Station: De Dhos	the second s	27.	1.31
On-Site Review Team			
(Include: Name - Organization - Phone Number)			
(include, ivalie - Crganzation - I none rounder)			
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2. CRARGE MARIN F	-UCO 614-152	710 1	
3. LESLIE SCHONDER	R/A 909-538.	-6054	
4. TEARY FRANK X	ORAIL 904-477-12	596-1213	
5. Don Clark Rose	-Kailfimerica 859-371-5	530	
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8. THE GALIMATER	- (ph N 1/67)	- 4010	
9			
Existing Traffic Control Devices	\$		
Type of Warning Devices	Installed?	Quantity	/Comments
Advance Warning Signs		2	
'Stop' Signs	Yes 1110		
'Stop Ahead' Signs	Yes 1No		
Pavement Markings	<u>Yes</u> <u>No</u>		
Crossbucks		2	
Number of Tracks Signs	Yes No		
Inventory Tags			
Interconnected Highway Traffic Signal			
Mast-Mounted Flashing Lights		2	
Cantilever Flashing Lights	Yes No	Number:	Length:
Side Lights	Yes No		
Automatic Gates	Yes No	Number: 7	Length:
Bells	Yes No		
Sidewalk Gate Arms	Yes 7No		
'No Turn' Signs	Yes No		
Illumination			
Is crossing flagged by train crew?	Yes No		
Other	Yes No		
Safaty Data (Obtain crash repo	rts if possible prior to raviour		ter en
Janety Data (Obtain crash repor	res, in possible, prior to review,		

UPDATED (12/2006)

	Init	ial Information (fro	m database)	Revised	
Number & dates of crashes					
in previous 5 years		None			
Hazard Ranking		317	Date Run: $4/15/04$		
Railroad Data	,			·	
Railroad Character	istics	Initial Information	n (from database)	Revised	
Total trains per day		8			
< per day					
Day thru trains		2			
Night thru trains					
Daytime switching move	ments	3			
Total number of tracks		1			
Number of main tracks		<u> </u>			
Number of other tracks				· · · · ·	
Maximum train speed					
Typical train speed		40			
Amtrak		0			
If non-gated crossing, is cleari	ing sight distan	ce adequate in all quad	rants? (See Table 1)	Yes No	
If multiple tracks, can two tra	ins occupy cro	ssing at the same time	? Yes INO	NA	1.8
Can one train block the moto	orists' view of :	another train at crossir	ng? 🔲 Yes (Explain be	low) 🗌 No	
Are there other track(s) cros	sing this same	roadway within 100 ft	of this crossing?	Yes 🛃 No	
If yes, Crossing DOT #(if	different)				
l If ves distance	(toka mes	suromant between tra	ck centerlines at close	st point along readway)	
If yes, distance Roadway Data	(take mea	surement between tra	ck centerlines at close	st point along roadway)	y strategy to
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If yes, distance Roadway Data Local Highway Authority: Roadway Character Average daily traffic Highway paved Roadway Surface: Blackto Roadway Surface: Blackto Roadway width: 3/_ft. Number of highway lanes Urban or Rural Vehicle Speed: 2 MPH School Bus Operation: N Hazardous Materials Trucks: Shoulders: No 1 Is the shoulder surfaced? Is there existing guardrail alor Is stopping site distance adeque Quadrant	(take mea City ristics p Cravel o Fea No Yes No res No res No Curb and Gutt	Initial Information 2-471 2-471 Tes Concrete Othe Concrete Othe Concrete Amount Yes Crossing vicinity? [No	Int	st point along roadway) Revised 2.47/ Yes No 2 Urban upproach(es) Curb and Gutter:	
If yes, distance Roadway Data Local Highway Authority: Roadway Character Average daily traffic Highway paved Roadway Surface: Blackto Roadway Surface: Blackto Roadway Surface: Blackto Roadway width: 3/_ft. Number of highway lanes Urban or Rural Vehicle Speed: 2 MPH School Bus Operation: N Hazardous Materials Trucks: Shoulders: No 1 Is the shoulder surfaced? 1 Is there existing guardrail alor Is stopping site distance adeque Quadrant Functional (Curb height	(take mea (take ma (take	asurement between tra	Int from database)	Revised 247/ Yes No 247/ Yes No 247/ Yes Yes </td <td></td>	
If yes, distance Roadway Data Local Highway Authority: Roadway Character Average daily traffic Highway paved Roadway Surface: Delacktor Roadway Surface: Blacktor Roadway width: 3/_ft. Number of highway lanes Urban or Rural Vehicle Speed: 2 MPH School Bus Operation: N Hazardous Materials Trucks: Shoulders: No 1 Is the shoulder surfaced? 1 Is there existing guardrail alor Is there existing guardrail alor Is there existing guardrail alor Is there existing guardrail alor Is there of distance adeque Quadrant Tunctional (Curb height Non-functional (Curb height	(take mea City ristics p Cravel o P Gravel o P C res No res No res No res No res No res No res Curb and Gutt = 4" or more] eight = Less th	an 4")	Int from database)	Revised 247/ Yes Vrban upproach(es)	

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Pedestrians: No Yes	
Is sidewalk present? No	
Is there a nearby intersection that could cause	queuing over the crossing? X No Tes
If yes, Distance <u>342</u>	
ls this intersection signalized? 🔲 No	a fes
Are the signals currently interconnected with	n the existing crossing warning devices?
Is it the consensus of the Diagnostic Review Te Explain reasons:	eam that this is a potential closure project: TNo Tes
Type of Development	
Open Space Institutional	Location of nearby schools:
Industrial Commercial	
☐ Residential	1 black
Utility Information	
Is commercial power available? [] No [Tres
Utility Provider (Company Name)	Phone Number
Newwork Austicable Bourse 6	
Is there potential utility conflict(s)	
Diagnostic Team Recommendation	ons
	Quadrants Needed
Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	
AFLS / Gates	
AFLS / Gates / Cants	
Upgrade circuitry	
Sidelights	
Guardrail Needed	
Install/Replace curb	
Other (define)	
Comments:	
Install/upgrade traffic signal preemption	
No improvements needed	
Other (define)	
Field Dimensions	

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ossing Angle 0-29° 30-59° 66-90° Measured i	in Qu	adrant?	
when here TOP			

TABLE I

Clearing Sight Distances

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

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

Notes:

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

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

Clearing Sight Distance is to be measured in each vehicle travel direction at <u>non-gated crossings</u> 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)	
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.







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

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Diagnostic Review Team Survey

	•		Date: 4-21	-09
Location Data	· · · · · · · · · · · · ·	gan ayaa ahaa ahaa		
Street or Road Name:	nakin St	-	······································	
Route/Road Number	$\frac{1}{1} = \frac{1}{1} = \frac{1}{1} = \frac{1}{1}$	<u></u>	AAR-DOT No.:	
(i.e. Twp., Co., SK or US) Township:		City:	507	2 199 13
Allen		(In or Near)	2elphos	
Railroad Name: (F)X/SF	Railroad Division: D'Her	North	Branch Name:	Line FHMa no line
Nearest RR Dolot AC			RR Milepost:	
On-Site Review Team			<i>L</i> ~	
Cil-Site Review Feature	<u></u>			
(Include: Name - Organization - Phone Number)			
1. Jod Darsus	ORTC GIY	· 574 - C	1298	
2. GEORGE MARTIN T	PUCO 1014-7	52-9/0-	7	
3. Don Clark ROSC	RA 859-3	71-5530	う	
A TROPH FRANK XOR	411 904-47	7-2103		
- JESTIE SCHONDER	RIA ENL	9-4-8	28-1-051	
5. ZEJCIE JEROIOLE		e li a		
6. Bree Belguist L	t phe	417/62	5 9010	
7. Mille Sallmeirs	Aclohos	695	- 4010	
8				
9				
Evistica Tueffe Control Device			. <u>.</u>	
Type of Warning Devices	Installe	d?	Quant	it/Commonts
Advance Warning Signs				aty/Continents
'Stop' Signs	Yes	C/No	(· · · · · · · · · · · · · · · · · · ·
'Stop Ahead' Signs	Yes	1 No	_	· · · · · · · · · · · · · · · · · · ·
Pavement Markings	Yes	No		
Crossbucks	∠ Yes	□ No		
Number of Tracks Signs	YYes			··· ··································
Inventory Tags	Yes			
Interconnected Highway Traffic Signal				
Mast-Mounted Flashing Lights	⊿Yes		· · · · · · · · · · · · · · · · · · ·	
Cantilever Flashing Lights	Yes		Number:	Length:
Side Lights			<u> </u>	
Automatic Gates			Number:	Length:
			┼	
No Turn' Sime				
INO LUCH Signs				
inumination				
Other				
Safety Data (Obtain crash repo	rts, if possible, prio	r to review)		

	Init	ial Information (from	m database)	Revised	
Number & dates of crashes			······································		
in previous 5 years		<u> </u>		<u> </u>	
Hazard Ranking	29	180 1	Date Run: 4//5	109	
Railroad Data					
Railroad Characteris	tics	Initial Information	n (from database)	Revised	
Total trains per day		<u> </u>			
< I per day					
Day thru trains		2			
Night thru trains					
Daytime switching movement	nts	3_			
Nighttime switching movem	ients				
Total number of tracks		/			
Number of main tracks		/			
Number of other tracks		Q			
Maximum train speed					
Typical train speed					
Amtrak					
If non-gated crossing, is clearing	g sight distan	<mark>ce adeq</mark> uate in all quad	rants? (See Table 1)	Yes 🗌 No	
If multiple tracks, can two train	s occupy cro	ssing at the same time	Yes No		
Can one train block the motori	ists' view of a	another train at crossir	ng? 🗍 Yes (Explain be	low) 🗆 No	
Are there other track(s) crossi	ng this same	roadway within 100 ft	of this crossing?		·
If yes. Crossing DOT #(if di	ifferent)	roadway widini roo ie			
	, ,				
If yes, distance	(take mea	isurement between tra	ck centerlines at close	st point along roadway)	
If yes, distance Roadway Data	(take mea	isurement between tra	ck centerlines at close	st point along roadway)	
If yes, distance Roadway Data Local Highway Authority:	(take mea	isurement between tra	ck centerlines at close	st point along roadway)	n an
If yes, distance Roadway Data Local Highway Authority: Roadway Characteris	(take mea (itics	Initial Information	ck centerlines at close	st point along roadway) Revised	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic	(take mea (Initial Information	ck centerlines at close $\frac{6}{0h05}$ (from database)	st point along roadway) Revised	18)
If yes, distance Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway payed	(take mea (atics	Initial Information	ck centerlines at close E/DH05 n (from database) . (08)	st point along roadway) Revised / 7 5 3 (* T Yes No	78)
If yes, distance Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: La Blacktop	(take mea	Initial Information	ck centerlines at close	st point along roadway) Revised / 9 5 3 (* Yes No	78)
If yes, distance Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: Blacktop Pandumu wideb 21 6	(take mea (atics) Gravel	Initial Information	ck centerlines at close	st point along roadway) Revised / 7 < 3 (°	18)
If yes, distance Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: 21_ft.	(take mea (ntics	Initial Information	ck centerlines at close b/Dh05 n (from database) . (08) er	st point along roadway) Revised / 9 5 3 (* Yes	18)
If yes, distance Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: 27_ft. Number of highway lanes	(take mea stics	Initial Information	ck centerlines at close <u>E/Dho 5</u> n (from database) . (08) er	st point along roadway) Revised / 7 5 3 (* Tes No	78)
If yes, distance Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: 21 ft. Number of highway lanes Urban or Rural	(take mea (atics	Initial Information	ck centerlines at close	st point along roadway) Revised / 9 5 3 (* Pres No	18)
If yes, distance Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: 21 ft. Number of highway lanes Urban or Rural Vehicle Speed: 25 MPH	(take mea itics	Initial Information	ck centerlines at close	st point along roadway) Revised /953 (* Pres No 2 Urban	78)
If yes, distance Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: 21_ft. Number of highway lanes Urban or Rural Vehicle Speed: MPH School Bus Operation: No	(take mea itics Gravel	Initial Information	ck centerlines at close	st point along roadway) Revised / 9 5 3 (° I Yes No	18)
If yes, distance Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: Blacktop Roadway Surface: Blacktop Roadway width: 21 ft. Number of highway lanes Urban or Rural Vehicle Speed: 25 MPH School Bus Operation: No Hazardous Materials Trucks: [(take mea itics Gravel	Initial Information	ck centerlines at close	st point along roadway) Revised /953 (Yes No Vitua Far 66	78)
If yes, distance Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: Blacktop Roadway Width: 21 ft. Number of highway lanes Urban or Rural Vehicle Speed: CS MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No	(take mea itics Gravel Gravel No es	Initial Information	ck centerlines at close <u>el Dho 5</u> n (from database) . (08) er nt Detaler	st point along roadway) Revised /953 (* Pres No Vrbga Far 66	78)
If yes, distance Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: Blacktop Roadway Surface: Blacktop Roadway width: 21 ft. Number of highway lanes Urban or Rural Vehicle Speed: 25 MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No Is the shoulder surfaced? N	(take mea itics itics Gravel Gravel No es io	Initial Information	ck centerlines at close	st point along roadway) Revised 1953 (° \Box Yes \Box No 2 $Uitbull f_{2}r 66$	18)
If yes, distance Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: Blacktop Roadway Surface: Blacktop Roadway Surface: Blacktop Roadway Surface: Blacktop Roadway width: 21_ft. Number of highway lanes Urban or Rural Vehicle Speed: SMPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No Is the shoulder surfaced? No Is there existing guardrail along	(take mea (atics Gravel Fe No es Ho groadway in	Initial Information	ck centerlines at close	st point along roadway) Revised $/9 \leq 3$ (° \Box Yes \Box No 2 $Uifbullat f_{2} \in 66$	18)
If yes, distance Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: Blacktop Roadway Surface: Male Roadway Surface: Blacktop Roadway Surface: Male Roadway Surface: Male Roadway Surface: MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No Is the shoulder surfaced? N Is there existing guardrail along Is stopping site distance adequa	(take mea (atics Gravel Gravel 	Initial Information	ck centerlines at close	st point along roadway) Revised $/9 \leq 3$ (° \square Yes \square No 2	78)
If yes, distance Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: Blacktop Roadway Surface: Blacktop Roadway width: 27_ft. Number of highway lanes Urban or Rural Vehicle Speed: 25_MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No Is the shoulder surfaced? N Is there existing guardrail along Is stopping site distance adequa Quadrant C	(take mea (atics Gravel Gre	Initial Information	ck centerlines at close b/Dh05 n (from database) . (08) . (108) . (108) . (108) . (108) . (108) . (108) . (108) . (108) . (108) . (108) . (108) . (108) . (108) . (108) . (108) . (108) . (108) .	st point along roadway) Revised 1953 (° 1953 (°	18)
If yes, distance Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: Blacktop Roadway Surface: Blacktop Road	(take mea (atics Gravel Gravel Gravel _	Initial Information	ck centerlines at close	st point along roadway) Revised $/9 \leq 3$ (° \square Yes \square No 2 Urb 4/3 $f_2 \in GG$ approach(es) Curb and Gutter: rb height = 4" or more)	18)
If yes, distance Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: Palacktop Roadway Surface: Palacktop Roadway width: 21_ft. Number of highway lanes Urban or Rural Vehicle Speed: 25_MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No Hazardous Materials Trucks: No Shoulders: No Is the shoulder surfaced? N Is there existing guardrail along Is stopping site distance adequa Quadrant C Functional (Curb height = Non-functional (Curb height =	(take mea (atics Gravel Gravel Gravel 	Initial Information	ck centerlines at close	st point along roadway) Revised $/9 \leq 3$ (° \square Yes \square No 2 Urb 4.1 $f_2 \in 66$ approach(es) Curb and Gutter: rb height = 4" or more) (Curb height = Less than 4")	18)

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Pedestrians: No Ja Yes	
Is sidewalk present? No Yes	
is there a nearby intersection that could cause queuing over the	crossing? PNo TYes
If yes, Distance	
Is this intersection signalized? No Yes	
Are the signals currently interconnected with the existing cros	ising warning devices? 🛃 No 🛛 Yes
Is it the consensus of the Diagnostic Review Team that this is a p	potential closure project:
Explain reasons:	
Type of Development	
	Dy schools:
Commercial	
Residential	3 placks
Utility Information	
Is commercial power available? No	
Utility Provider (Company Name) AEP	Phone Number
Nearest Available Power Source () (#055/4)	
Vehat other utilities are present: 1×10^{-11} vehat other potential utility conflict(s)	Jakaowa
Diagnostic Team Recommendations	
	Quadrants Needed
Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	
AFLS / Gates	
AFLS / Gates / Cants	
Sidelignis	
Other (define)	
Comments:	
Install/upgrade trainc signal preemption	
Other (define)	
Field Dimensions	

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S - H. I. A. L	**		I
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ossing Angle 0-29° 30-59° 760-90	Measured in	Ouadrant?	
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TABLE I

Clearing Sight Distances

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

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

All calculated distances are rounded up to the next higher 5foot 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 <u>non-gated crossings</u> 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	
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:

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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.







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

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Diagnostic	Review	Team	Survey
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		Date: 4-21-09
Location Data		
Street or Road Name: Main S	+ 191246	
Route/Road Number (i.e. Twp., Co., SR or US) (include SLI	1 if State or US route) SIZ 4.6	AAR-DOT No.: 532 - 745 H
County: Allen Township:	City: (In or I	Vear) Delahos
Railroad CFWEE	Railroad Division: PHSDUNA	h Branch/Line Name Ft. Wayne Lin
Nearest RR Timemble Smiller Delphos		RR Milepost: 274 - 59
On-Site Review Team		
(Include: Name - Organization - Phone Number) ADT (11 271 0 70 0
1. LOO LOTAUS	$() \mathbf{C} \mathbf{L} _{0}$	19-319-9679
2. Mike Gallmeica	Delphon 61	5-4010
3. TERRY FRANK	XORAIL 900	4-477-2103
4. LESTIE SCHONDER	RIA ENG. 90	4-538-6056
5. GOL, ACRART	Detoter 4	19/685-4010
6. GEORGE MARTIN	PUCO 6	14-752-9107
7 MELI-INDER	RVNUE 4	19-1.92-6010
8 Dan Slick	RIA Rose 3	59-391-55 8.0
Existing Traffic Control Device	S	
Type of Warning Devices	Installed	Quantity/Comments
Advance vvarning Signs		
Stop Signs		
Stop Anead Signs		
Casterburgh		
		·
I Number of Tracks Signs		
Inventory 1 ags		
Interconnected Highway I raffic Signal		
Trast-Mounted Flashing Lights		
Cantilever Hashing Lights		Number: Length:
Side Lights	Yes No	
Automatic Gates	Yes No	Number: Length:
Bells	Pres No	/
Sidewalk Gate Arms		
'No Turn' Signs	Yes ANO	
Illumination		
Is crossing flagged by train crew?	Yes 7No	
Other	Yes No	
Safety Data (Obtain crash repo	rts, if possible, prior to re	eview)

	Init	ial Information (fro	m database)	Revised	
Number & dates of crashes		~		_	
in previous 5 years		<u> </u>	······	0	
Hazard Ranking	236		Date Run: 4	5/09	
Railroad Data					
Railroad Characteris	stics	Initial Informatio	n (from database)	Revised	
Total trains per day		8			
< I per day					<u> </u>
Day thru trains		2			
Night thru trains	<u> </u>				
Daytime switching moveme	ents	3		ļ	
Nighttime switching moven	nents				
Total number of tracks		2			· · ·
Number of main tracks		/			
Number of other tracks					
Maximum train speed		<u>401</u>	мр <i>ђ</i>		
Typical train speed		401	<u>viph</u>		
Amtrak		0	·	l	
If non-gated crossing, is clearin	ig sight distan	ce adequate in all quad	rants? (See Table 1)	es No	
If multiple tracks, can two train	is occupy cro	ssing at the same time	? Tes No		
Can one train block the motor	rists' view of a	another train at crossir	ng? Thes (Explain be	low) 🗆 No	
Are there other track(s) cross	ing this come	readway within 100 ft	of this crossing?		
If yes, Crossing DOT #/if d	ifferent)	roadway within roo ic			
If yes, distance	(take mea	isurement between tra	ick centerlines at close	st point along roadway)	
If yes, distance Roadway Data	(take mea	isurement between tra	i <mark>ck cen</mark> terlines at close	st point along roadway)	
If yes, distance Roadway Data Local Highway Authority:	(take mea		ick centerlines at close	st point along roadway)	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri	(take mea	Isurement between tra	CK centerlines at close	st point along roadway) Revised	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic	(take mea	Surement between tra	DDOS n'(from database)	st point along roadway) Revised 3451 87	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved	(take mea	Initial Informatio	Charlines at close	Revised 3451 67	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Boadway Surface: Blackton	(take mea	Initial Informatio	ick centerlines at close DDCIS (from database) (67) er	st point along roadway) Revised 3451 67 Pres No	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteric Average daily traffic Highway paved Roadway Surface: Blacktop Roadway Surface: Islacktop	stics	Initial Informatio	ick centerlines at close DDOS (from database) (67) er	st point along roadway) Revised 3451 87 Pres No	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteric Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: S2.0ft.	stics	Initial Information 3451 Yes No Concrete Other Others Parts	Charlines at close Dhas (from database) (6.7) er	st point along roadway) Revised 345167 Yes	
If yes, distance Roadway Data Local Highway Authority: Roadway Characterit Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: S2.0ft. Number of highway lanes	stics	Initial Informatio	ck centerlines at close (from database) (6.7.) er	Revised 3451 87 Yes No	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: <u>S2-b</u> ft. Number of highway lanes Urban or Rural	stics	Initial Information 3451 Pres No Concrete Other Vdes Porto 2 Volume	ck centerlines at close (from database) (6-7) er	Revised 3451 67 Pres No	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteria Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: S2.0ft. Number of highway lanes Urban or Rural Vehicle Speed: 15 MPH	(take mea	Initial Information SUSI Initial Information SUSI Iffes INO Concrete Other Under Porton T Under	Charlines at close	Revised 3451 67 Pres No 2 Ur Duy	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteria Average daily traffic Highway paved Roadway Surface: Blacktop Roadway Surface: Blacktop Roadway width: S2.bft Number of highway lanes Urban or Rural Vehicle Speed: 25_MPH School Bus Operation: No	stics	surement between tra	ck centerlines at close	Revised 3451 67 Yes No No	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: Sloperation: Blacktop Roadway width: Sloperation: No Urban or Rural Vehicle Speed: School Bus Operation: No Hazardous Materials Trucks:	stics	Initial Information 3451 Yes No Concrete Other Ves Portone Ves Portone Ves Amount Sea Amount Yes Amount	ick centerlines at close	Revised <u>345167</u> Yes No 2 ()r buy	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteria Average daily traffic Highway paved Roadway Surface: Blacktop Roadway Surface: Blacktop Roadway Surface: Blacktop Roadway width: S2.0ft. Number of highway lanes Urban or Rural Vehicle Speed: 15 MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No	take mea	Initial Information Initial Information 3451 If Yes No Concrete Other Concrete Other Concrete Tother Concrete Amount If Yes Amount Amount	ick centerlines at close	Revised <u>345167</u> Yes No No	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteria Average daily traffic Highway paved Roadway Surface: Blacktop Roadway Surface: Blacktop Roadway width: <u>\$2.66</u> ft. Number of highway lanes Urban or Rural Vehicle Speed: <u>15</u> MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No Is the shoulder surfaced? N	take mea	Initial Information Initial Information 345/ Yes No Concrete Other Concrete Other Concrete Other Concrete Other Concrete Amount Sea Amount Yes	ick centerlines at close	Revised <u>345167</u> Yes No 2 Ur Duy	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteria Average daily traffic Highway paved Roadway Surface: Blacktop Roadway Surface: Blacktop Roadway Surface: Blacktop Roadway width: S2.bft Number of highway lanes Urban or Rural Vehicle Speed: 15 MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No Is the shoulder surfaced? N Is there existing guardrail along	stics	Initial Informatio	Int	Revised <u>345167</u> Yes No No	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteria Average daily traffic Highway paved Roadway Surface: Blacktop Roadway Surface: Blacktop Roadway width: S2.0ft. Number of highway lanes Urban or Rural Vehicle Speed: 15 MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No Is the shoulder surfaced? N Is there existing guardrail along Is stopping site distance adequate	take mea stics stics Gravel i	Initial Information Initial Information If Yes Do Concrete Other Concrete	Ick centerlines at close	Revised <u>345167</u> Yes No No No	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteria Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: <u>\$2.6</u> ft. Number of highway lanes Urban or Rural Vehicle Speed: <u>15</u> MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No Is the shoulder surfaced? No Is there existing guardrail along Is stopping site distance adequa Quadrant Co	stics	Initial Information Initial Information 345/ Yes No Concrete Other Ves Portone Concrete Other Ves Amount Yes Amount Yes Amount Yes Amount Yes Information Yes Initial Information No No No No No No No No No No	Ick centerlines at close	Revised <u>345167</u> <u>345167</u> <u>7</u> es No <u>2</u> <u>0r.buy</u> upproach(es) Curb and Gutter:	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteria Average daily traffic Highway paved Roadway Surface: Blacktop Roadway Surface: Blacktop Roadway width: <u>\$2.6</u> ft Number of highway lanes Urban or Rural Vehicle Speed: <u>15</u> MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No Is the shoulder surfaced? N Is there existing guardrail along Is stopping site distance adequa Quadrant Co Functional (Curb height =	stics	Initial Information Initial Information 345/ Iffes No Concrete Other Concrete Other Concrete Other Amount Iffes Amount Iffes Amount Iffes Amount Iffes Amount Iffes Information Iffes Informat	Int	Revised 3451 67 Yes No 2 ()r buy upproach(es)	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteria Average daily traffic Highway paved Roadway Surface: Blacktop Roadway Surface: Blacktop Roadway width: S2.0ft Number of highway lanes Urban or Rural Vehicle Speed: 15 MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No Is the shoulder surfaced? N Is there existing guardrail along Is stopping site distance adequa Quadrant C Functional (Curb height = Non-functional (Cu	stics	Initial Information Initial Information Initial Information If Yes INO Concrete Other Concrete Other If Yes Part Arrow If Yes Amount If Yes Amount If Yes Amount If Yes Amount If Yes Inter: In Arrow Information If Yes Inter: In Arrow Information If Yes Inter: In Arrow Information If Yes Inter: In Arrow Information In Arrow Information In Arrow Information In Arrow Information In Information Infor	Int Content of the second seco	Revised <u>345167</u> <u>7es</u> No <u>2</u> ()r buy <u>curb and Gutter:</u> rb height = 4" or more) (Curb height = Less than 4")	

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la sidewalk assessed	
Is sidewark present: Tho	
Is there a hearby intersection that could cause queuing over the o If yes,	crossing: Tho Tes
Distance	
Is this intersection signalized? No Yes	sing warning devices? 🕞 No 👘 Yos
Are the signals carrendy interconnected with the existing cross	
Explain reasons:	
Type of Development	
Open Space Institutional Location of nearly	y schools:
[Industrial]Commercial	
Residential	4 blocks
Utility Information	
Is commercial power available? To No	
Likiting Dravidan (Company Nama)	
Ounty Provider (Company Name)	
Nearest Available Power Source	
What other utilities are present? Water Scul	tr and gast
Is there potential utility conflict(s) I Yes I No I U	nknown 2 0
Diagnostic Team Recommendations	
	Quadrants Needed
Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	
AFLS / Gates	
AFLS / Gates / Cants	
Upgrade circuitry	
Sidelights	
Install/Replace curb	
Comments:	
Install/upgrade traffic signal preemption	
No improvements needed	
Other (define)	

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```		
Field Sketch		
See attached topo		
Crossing Angle 0-29 30-59 60-90	Measured in	Quadrant?
Sketch by:		

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#### TABLE I

#### Table 2

#### Stopping Sight Distances

e (dT) Along om Crossing (ft)	Highway Vehicle Speed	Distance (dH) Along Roadway from Crossing (ft)
240	0	n/a
360	5	50
480	10	70
600	15	105
720	20	135
840	25	180
960	30	225
1080	35	280
1200	40	340
1320	45	410
1440	50	490
1560	55	570
1680	60	660
1800	65	760
1920	70	865
2040	Source: P. H. Crade Creating He	

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.

#### **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 5foot 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 <u>non-gated crossings</u> 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.



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

## **Diagnostic Review Team Survey**

Location Data Street or Road Name:	the second se	7-21-09
Street or Road Name:		n an an 1977 ann an Anna, an an Anna an an Anna an an Anna an A Anna an Anna an
		and an
Route/Road Number (i.e. Two. Co. SR or US) (include SLM if State	or US route)	AAR-DOT No .: 532-749 15
County: , Township:	City:	7 1-1-0
Van Wert	(in or Near)	Delphos
Railroad CEWSE Rail	ision: Diffehum	Branch/Line Name: III . Mauno /
Nearest RR Dolo		RR Milepost and GD
Timetable Station: JEUDIOS		219.13
On-Site Review Team		
(Include: Name - Organization - Phone Number)		
1. LESLIE SCHONDER	R/K ENG	904-538-6056
2. GPL, BERguis	Delphas	419/695 4010
3. Mike Gallmaica	Delphos	69-5-4010
4. ( WRIGE MARTIN	Pulo	614-752-9107
5. MEL HILDER	BUNGE	419-692.6010
6. Dan Clark	KIA Rogia	959-391-5530
7. TERRY FRANK	XORAIL	404-477-2103
Tol Dodre	APIC	611 274 9700
Estational Transform Construct Destingen		
Existing Trainc Control Devices	in stall a d?	Our tite (Comments
Type of Warning Devices		Quantity/Comments
Type of Warning Devices       Advance Warning Signs	Installed?	Quantity/Comments
Type of Warning Devices         Advance Warning Signs         'Stop' Signs         'Stop Ahead' Signs	Installed?          Yes        No          Yes        No          Yes        No	Quantity/Comments
Type of Warning Devices         Advance Warning Signs         'Stop' Signs         'Stop Ahead' Signs         Pavement Markings	Installed?           Yes         No           Yes         No           Yes         No           Yes         No           Yes         No	Quantity/Comments
Type of Warning Devices         Advance Warning Signs         'Stop' Signs         'Stop Ahead' Signs         Pavement Markings         Crossbucks	Installed?           Yes         No           Yes         Mo           Yes         No           Yes         No           Yes         No           Yes         No           Yes         No           Yes         No	Quantity/Comments
Type of Warning Devices         Advance Warning Signs         'Stop' Signs         'Stop Ahead' Signs         Pavement Markings         Crossbucks         Number of Tracks Signs	Installed?         Yes       No	Quantity/Comments /
Type of Warning Devices         Advance Warning Signs         'Stop' Signs         'Stop Ahead' Signs         Pavement Markings         Crossbucks         Number of Tracks Signs         Inventory Tags	Installed?         Yes       No	Quantity/Comments
Type of Warning Devices         Advance Warning Signs         'Stop' Signs         'Stop Ahead' Signs         Pavement Markings         Crossbucks         Number of Tracks Signs         Inventory Tags         Interconnected Highway Traffic Signal	Installed?         Yes       No	Quantity/Comments
Type of Warning Devices         Advance Warning Signs         'Stop' Signs         'Stop Ahead' Signs         Pavement Markings         Crossbucks         Number of Tracks Signs         Inventory Tags         Interconnected Highway Traffic Signal         Mast-Mounted Flashing Lights	Installed?         Yes       No	Quantity/Comments
Type of Warning Devices         Advance Warning Signs         'Stop' Signs         'Stop Ahead' Signs         Pavement Markings         Crossbucks         Number of Tracks Signs         Inventory Tags         Interconnected Highway Traffic Signal         Mast-Mounted Flashing Lights         Cantilever Flashing Lights	Installed?         Yes       No	Quantity/Comments
Type of Warning Devices         Advance Warning Signs         'Stop' Signs         'Stop Ahead' Signs         Pavement Markings         Crossbucks         Number of Tracks Signs         Inventory Tags         Interconnected Highway Traffic Signal         Mast-Mounted Flashing Lights         Cantilever Flashing Lights	Installed?         Yes       No	Quantity/Comments / / / / / / / / / / / / / / / / / / /
Type of Warning Devices         Advance Warning Signs         'Stop' Signs         'Stop Ahead' Signs         'Stop Ahead' Signs         Pavement Markings         Crossbucks         Number of Tracks Signs         Inventory Tags         Interconnected Highway Traffic Signal         Mast-Mounted Flashing Lights         Cantilever Flashing Lights         Side Lights         Automatic Gates	Installed?         Yes       No	Quantity/Comments         /         /         /         /         /         /         /         /         /         /         ////////////////////////////////////
Type of Warning Devices         Advance Warning Signs         Stop Signs         Stop Ahead' Signs         Pavement Markings         Crossbucks         Number of Tracks Signs         Inventory Tags         Interconnected Highway Traffic Signal         Mast-Mounted Flashing Lights         Side Lights         Automatic Gates         Bells	Installed?         Yes       No	Quantity/Comments         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /
Type of Warning Devices         Advance Warning Signs         'Stop' Signs         'Stop Ahead' Signs         'Stop Ahead' Signs         Pavement Markings         Crossbucks         Number of Tracks Signs         Inventory Tags         Interconnected Highway Traffic Signal         Mast-Mounted Flashing Lights         Cantilever Flashing Lights         Side Lights         Automatic Gates         Bells         Sidewalk Gate Arms	Installed?         Yes       No	Quantity/Comments         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /
Type of Warning Devices         Advance Warning Signs         'Stop' Signs         'Stop Ahead' Signs         'Stop Ahead' Signs         Pavement Markings         Crossbucks         Number of Tracks Signs         Inventory Tags         Interconnected Highway Traffic Signal         Mast-Mounted Flashing Lights         Cantilever Flashing Lights         Side Lights         Automatic Gates         Bells         Sidewalk Gate Arms         'No Turn' Signs	Installed?         Yes       No	Quantity/Comments         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /
Type of Warning Devices         Advance Warning Signs         'Stop' Signs         'Stop Ahead' Signs         Pavement Markings         Crossbucks         Number of Tracks Signs         Inventory Tags         Interconnected Highway Traffic Signal         Mast-Mounted Flashing Lights         Side Lights         Automatic Gates         Bells         Sidewalk Gate Arms         'No Turn' Signs         Illumination	Installed?         Yes       No         Yes	Quantity/Comments         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /
Type of Warning Devices         Advance Warning Signs         'Stop' Signs         'Stop Ahead' Signs         Pavement Markings         Crossbucks         Number of Tracks Signs         Inventory Tags         Interconnected Highway Traffic Signal         Mast-Mounted Flashing Lights         Side Lights         Automatic Gates         Bells         Sidewalk Gate Arms         'No Turn' Signs         Illumination         Is crossing flagged by train crew?	Installed?         Yes       No	Quantity/Comments         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /         /

UPDATED (12/2006)

	Init	ial information (from	m database)	Revised	· · · · · · · · · · · · · · · · · · ·
Number & dates of crashes			II ditemasty		
in previous 5 years				0	
Hazard Ranking	323	-8 [	Date Run: 4/15	109	
Railroad Data					
Railroad Characteris	stics	Initial Information	n (from database)	Revised	-
Total trains per day		8			
<   per day				· · · · · · · · · · · · · · · · · · ·	
Day thru trains		- 7		·	. <u>.</u>
Night thru trains					
Daytime switching moveme	ents	3			
Nighttime switching moven	nents				
Total number of tracks			· · · <u>· · · · · ·</u>		
Number of main tracks		, <b>/</b> , <b>/</b>			<u></u>
Maximum train spaed		40	AADh		<u> </u>
Typical train speed		7%	ADD D		
Amtrak		<u> </u>		· · · · · · · · · · · · · · · · · · ·	<u>, 1-1-1-</u>
If non-gated crossing, is clearing	ng sight distand	ce adequate in all quad	rants? (See Table 1)	I	
If multiple tracks, can two train	ns occupy cro	ssing at the same time:		· · <b>_</b> ·	
Can one train block the motor	rists' view of a	another train at crossin	g! [] Yes (Explain be		
Are there other track(s) cross	ing this same	roadway within 100 ft	of this crossing?	es Ho	
I if yes, crossing DOT #(if d	imerent)				
If yes, distance	(take mea	surement between tra	ck centerlines at close	st point along roadway)	
If yes, distance Roadway Data	(take mea	surement between tra	ck centerlines at close	st point along roadway)	
If yes, distance Roadway Data	(take mea	surement between tra	ck centerlines at close	st point along roadway)	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri	(take mea	surement between tra	ck centerlines at close	st point along roadway) Revised	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri	(take mea	Initial Information	ck centerlines at close	Revised	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic	(take mea	Surement between tra	ck centerlines at close )e/Ph/S n (from database) (0C)	Revised 824 (01)	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved	(take mea	Initial Information	ck centerlines at close	st point along roadway)          Revised         Ø24 (0l)         Yes       No	· · · · ·
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blacktop	(take mea ( istics 	Initial Information	ck centerlines at close	Revised 824 (0() Yes No	·····
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blackto Roadway width: 21.4 ft.	(take mea	Initial Information	ck centerlines at close	st point along roadway)          Revised         024 (0l)         Yes	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blackto Roadway width: 21.9 ft Number of highway lanes	(take mea	Initial Information	ck centerlines at close	Revised 824 (0() Yes No	· · · · · · · · · · · · · · · · · · ·
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blackto Roadway width: 21.9 ft. Number of highway lanes Urban or Rural	(take mea	Initial Information	ck centerlines at close	Revised 024(00) Yes No -2 07ban	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blackto Roadway width: 21.9 ft Number of highway lanes Urban or Rural Vehicle Speed: 25 MPH	(take mea	Initial Information	ck centerlines at close	Revised 824(00) Yes No Ves Vo 1000	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blackto Roadway width: 21.9 ft. Number of highway lanes Urban or Rural Vehicle Speed: 25 MPH School Bus Operation: No	(take mea	Initial Information	ck centerlines at close <u>e/ Phys</u> (from database) (06)	Revised 824(00) Yes No 72 070an	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blackto Roadway width: 21.9 ft Number of highway lanes Urban or Rural Vehicle Speed: 25 MPH School Bus Operation: No Hazardous Materials Trucks:	(take mea	Initial Information          32.4         Thes         Of Concrete         Other         Uthan         Initial Antion         S.2.4         Thes         No         Concrete         Other         Initial Antion         S.2.4         Thes         Other         Other         Initial Antion         S.2.4         Initial Information         Initial Information         Sourcette         Other         Initial Information         Initin	ck centerlines at close	Revised 824(00) Yes No 72 070an	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blackto Roadway Surface: Blackto Roadway width: 21.4 ft. Number of highway lanes Urban or Rural Vehicle Speed: 25 MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No	(take mea	Initial Information	ck centerlines at close	Revised 024(00) Yes No -2 0Tban	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blackto Roadway Surface: Blackto Roadway Width: 21.9 ft. Number of highway lanes Urban or Rural Vehicle Speed: 25 MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No Y	(take mea istics pGravel Yre No Yre NoY	Initial Information	ck centerlines at close	Revised 024(00) Yes No -2 0TDan	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blackto Roadway Surface: Blackto Roadway width: 21.4 ft Number of highway lanes Urban or Rural Vehicle Speed: 25_MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No Y Is the shoulder surfaced? I	(take mea istics  pGravel  pGravel  pGravel  pGravel  sYe  g roadway in (	Initial Information	ck centerlines at close	Revised 824 (00) Yes No 72 075an	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blackto Roadway Surface: Blackto Roadway Surface: Blackto Roadway Width: 21.9 ft. Number of highway lanes Urban or Rural Vehicle Speed: 25 MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No Is the shoulder surfaced? I Is there existing guardrail alon Is stopping site distance adeque	(take mea istics pGravel Yre No 'es NoYre g roadway in o ate? (See Tab	Initial Information          32.4         Initial Information         32.4         Yes         Concrete         Other         Yes         Amount         Yes         crossing vicinity?         Yes	ck centerlines at close	Revised 024(00) Yes No -2 0TDan	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blackto Roadway Surface: Blackto Roadway Surface: Blackto Roadway width: 21.4 ft Number of highway lanes Urban or Rural Vehicle Speed: 25_MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No Is the shoulder surfaced? I Is there existing guardrail alon Is stopping site distance adeque Quadrant	(take mea istics  pGravel  pGravel  pGravel  pGravel  pGravel  pGravel  pGravel  pGravel  pGravel  pGravel  pGravel  pGravel  pGravel  pGravel  pGravel  pGravel  pGravel  pGravel  pGravel  pGravel  p g roadway in Gravel  g roadway in Gravel  Coater a for a	Initial Information          S2.9         S2.9 </td <td>ck centerlines at close</td> <td>Revised 024(00) Yes No No Vrban</td> <td></td>	ck centerlines at close	Revised 024(00) Yes No No Vrban	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blackto Roadway Surface: Blackto Roadway width: 21.4 ft. Number of highway lanes Urban or Rural Vehicle Speed: 25_MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No Is the shoulder surfaced? I Is there existing guardrail alon Is stopping site distance adeque Quadrant C	(take mea istics  pGravel  pGravel  pGravel  pGravel  pGravel  s gradway in Gutt  g roadway in Gutt  Curb and Gutt = 4" or more)	Initial Information	ck centerlines at close	Revised   824 (0l)   Yes   No   Proach(es)	
If yes, distance Roadway Data Local Highway Authority: Roadway Characteri Average daily traffic Highway paved Roadway Surface: Blackton Roadway Surface: Blackton Roadway width: 21.9 ft Number of highway lanes Urban or Rural Vehicle Speed: 25_MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No Y Is the shoulder surfaced? I Is there existing guardrail alon Is stopping site distance adeque Quadrant C Functional (Curb height for the shoulder surfaced) Non-functional (Curb height f	(take mea istics p Gravel C Gr	Initial Information          32.4         Initial Information         32.4         Yes         Concrete         Other         Yes         Amount         Yes         crossing vicinity?         Yes         an 4")	ck centerlines at close	Revised 024(00) Yes No No 127 No 127	

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Pedestrians: No Tes	
Is sidewalk present?	
Is there a nearby intersection that could cause queuing over the If yes, Distance	crossing?
Is this intersection signalized?	
Are the signals currently interconnected with the existing cros	ssing warning devices? 🔄 📢 💿 🔲 Yes
Is it the consensus of the Diagnostic Review Team that this is a Explain reasons:	potential closure project. 140 [] Yes
Type of Development	
Open Space Institutional Location of near	by schools:
Hidustrial Commercial	-
	5-6 Blocks
Utility Information	
Is commercial power available? No Tes	
Utility Provider (Company Name) AEP	Phone Number
Name Anithele Bourse Courses	
Nearest Available rower source	
What other utilities are present? <u>PWC</u> WCA	Pr = GGS
Diagnostic Team Recommendations	
	Quadrants Needed
Tistall/upgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	
AFLS / Gates	
AFLS / Gates / Cants	
Upgrade circuitry	
Sidelights	· · · · · · · · · · · · · · · · · · ·
Guardrail Needed	
Install/Replace curb	
Other (define)	
Comments: Inshall such hard fit to the t	stilled to CSY
Install/upgrade traffic signal preemption	
□ No improvements needed	
Other (define)	

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Field Sketch			
· · ·			
Crossing Angle 0-29° 0 30-59° 00-90°	Measured in	Quadrant?	
Sketch by:			

#### TABLE I

#### **Clearing Sight Distances**

Maximum Authorized Train Speed	Distance (dT) Along Railroad from Crossing (ft)
1 - 10	240
15	360
20	480
25	600
30	720
35	840
(40)	960
<b>4</b> 5	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 5foot 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 <u>non-gated crossings</u> 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.







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

Diagnostic	Review	Team	Survey
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			Date: 4/-	21-09
Location Data		· · · · · · · · · · · · · · · · · · ·		
Screet or Road Name: Oh48 St	52 697	n na shekara ka ka ka shekara sa	<u>,</u>	a far an i characta an garanta an an
Route/Road Number i.e. Two., Co., SR or US)	If State or US route)	73	AAR-DOT No.: 532	- 750 E
County: Vanlikent Township:		City: (in or Near)	Delahre	
Lailroad (FW AE	Railroad D.H	shurch	Branci	Mine 11/ Lune
learest RR Dolphon		Swight_	RR Milepost: 2	15 00
Interable Station: JEIDI D			4	. 17.08
	<u>. Ang pang pang pang pang pang</u>	<u> </u>		<u> 4 1 </u>
Cost Cost Cost Cost Cost Cost Cost Cost	Pulo	614-757-	9107	
CONCE MINGIN	Palata	195-1101	<u></u>	
M. RE Gallacica	Verpan	610-401	21/22	
TERRY PRANK	XORAIL	904-4/1		
LESCIE SCHONDER	KIA ENO	5 404.	-5 58 - 64	
. Don Clark	RA Roto	<u> </u>	<u> 391-553</u> c	<u>&gt;</u>
GRE BERGUIS/	Delph	419	2/695-40	9/1
				i dira
Tool Darfus	ORDC	61	1-314-4	
Tool Darfus	ORDC	61	1-314-4	
Tool Darfus	ORDC	61	1-314-4	<u></u>
Existing Traffic Control Devices	ORDC	<u>(6)</u>	- 319-9	
Existing Traffic Control Devices				e 19 htity/Comments
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs	Instal	Iled?	Quan	tity/Comments
Existing Traffic Control Devices Type of Warning Devices Idvance Warning Signs Stop Ahead' Signs	Instal Yes Yes Yes	led? □ No □ No □ No	Quan	tity/Comments
Tool Dan Fus         Existing Traffic Control Devices         Type of Warning Devices         Idvance Warning Signs         Stop' Signs         Stop Ahead' Signs         avement Markings	Insta Insta Yes Yes Yes Yes Yes	lled? □ No □ No □ No □ No	Quan	tity/Comments
Existing Traffic Control Devices Type of Warning Devices Idvance Warning Signs Idvance Warning Signs Idvance Warning Signs Idvance Warning Signs Idvance Markings Idvance Markings	Insta Insta Yes Yes Yes Yes Yes	led?   No   No   No   No   No		tity/Comments
Existing Traffic Control Devices Type of Warning Devices Indvance Warning Signs Stop Ahead' Signs avement Markings Trossbucks Jumber of Tracks Signs	Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta Insta	lled? □ No □ No □ No □ No □ No	Quan 2- 1-3/9-9	tity/Comments
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Col Dan Aus      Section 2015     S	Insta Insta Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Iled?         No	Quan 2. 	Length:
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UPDATED (12/2006)

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	Init	ial Information (from database)	Revised	7
Number & dates of crashes		$\sim$		7
in previous 5 years		0		
Hazard Ranking	16	Date Run:	4/18/09	
Railroad Data	· · · · ·	and a second		
Railroad Characteris	tics	Initial Information (from database)	Revised	
Total trains per day		8	·	
< I per day				
Day thru trains		2		
Night thru trains		·		
Daytime switching movement	nts	3		_
Nighttime switching movem	ents			
Total number of tracks				4
Number of main tracks				
Number of other tracks				-
Maximum train speed				
A ment		<u>yo mpn</u>		- <b>1</b>
		O		
If non-gated crossing, is clearing	sight distan	ce adequate in all quadrants? (See Table 1)		
If multiple tracks, can two train	s оссиру сго	ssing at the same time? Tes 🗌 No		
Can one train block the motori	sts' view of a	another train at crossing? 🗗 Yes (Explain	below) 🗌 No	
Are there other track(s) crossin If yes, Crossing DOT #(if di If yes, distance	ng this same fferent) (take mea	roadway within 100 ft of this crossing?	Yes Into	
		isurement between track centernines at tio	sest point along roadway)	
Roadway Data		surement between track centernines at the	sest point along roadway)	
Roadway Data Local Highway Authority:	Ci'H	rof Delphos	sest point along roadway)	
Roadway Data Local Highway Authority: Roadway Characteris		Initial Information (from database)	sest point along roadway) Revised	
Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic	<u> </u>	Delp=3780 (07)	Revised Delta 3780 (07)	dose
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Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: <u>271</u> fc. Number of highway lanes Urban or Rural Vehicle Speed: 25 MPH	Cita tics	Initial Information (from database) Delp'#3780 (07) Dres DNO Concrete Other ioug - See Cligg Urban	Revised	
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Roadway Data         Local Highway Authority:         Roadway Characteris         Average daily traffic         Highway paved         Roadway Surface:         Blacktop         Roadway width:         221 <ft.< td="">         Number of highway lanes         Urban or Rural         Vehicle Speed:         ZS         MPH         School Bus Operation:         No         Hazardous Materials Trucks:         Shoulders:         No         Is there existing guardrall along         Is stopping site distance adequa         Quadrant       C         Instructional (Curb height =         Non-functional (Curb height =</ft.<>	City tics Gravel free No ss lo te? (See Tabl urb and Gutt 4" or more) ght = Less th	Initial Information (from database) Delg'=3780 (07) Pres □No □ Concrete □Other ioug - See Chigg Utban s Amount (Few) No Pres Mo Pres Mo Pres No Pres	Revised Revised Revised Revised Revised No Yes No Yes No Yes No Yes No Yes No Yes No Yes State Curbast Curb and Gutter: Curb height = 4" or more) nal (Curb height = Less than 4")	
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Is there a hearby intersection that could cause queuing over the c If yes, Distance	
ls this intersection signalized? 🔲 No 👘 Yes	
Are the signals currently interconnected with the existing cross	ing warning devices? 🔄 🗖 o 🛛 📋 Yes
Is it the consensus of the Diagnostic Review Team that this is a po	otential closure project:
Explain reasons:	
Type of Development	
Open Space Institutional Location of nearb	y schools:
	•
Residential 4.	the amiles
Utility Information	
Is commercial power available?	and the second secon
	Dharas Musekan
Utility Provider (Company Name)	
Nearest Available Power Source	
What other utilities are present? Kater & Sewe	
Is there potential utility conflict(s) [Yes []No []U	nknown
Diagnostic Team Recommendations	
	Quadrants Needed
Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	
AFLS / Gates	
AFLS / Gates / Cants	· · · · · · · · · · · · · · · · · · ·
Upgrade circuitry	
Sidelights	<u>}</u>
	· · · · · · · · · · · · · · · · · · ·
	I
	T
Install/upgrade traffic signal preemption	L
No improvements needed	
Field Dimensions	



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#### TABLE I

#### **Clearing Sight Distances**

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

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

Notes:

All calculated distances are rounded up to the next higher 5foot 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 <u>non-gated crossings</u> 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	TBO
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.







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

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Diagnostic	Review	Team	Survey
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Surface upgrade	Ũ	Date: $L - 2 - 09$
Location Data	ter a state and the second	
Street or Road Name: 11 0 *	1	
("lay Stee	<u>e †</u>	
Route/Road Number / (include SLM (i.e. Twp., Co., SR or US) (include SLM	If State or US route)	AAR-DOT No .: 532-748D
County: VanWert Township:	City: (In or Near)	Delphos
Railroad OFINSE	Railroad Diffehing L	Branch/Line FF. 11/21/02
Nearest RR Dearble Science Dologhas		RR Milepost: 774 70
On-Site Beview Team		1 617.10
(Include: Name - Organization - Phone Number)	PIKA 614 751 9107	
1. Source Interior	D (-/	Usali Hal
2. Call sy Selpusot	Delplags	17/695-20/6
3. Mike Gallmeien	Delptos	696-4010
4. MEL HOLDER	BUNGE B	419-692-6010
5. Own Slank	KA. Roza	359-391-5530
6. LESLIE SCHONDER	RIA Enks 9	04-578-6056
7. TERRY FRANK	XORAL 9	04-471-2103
a Contra-	AP IT	(1) - 3711-0700
$18.  (\Box V) \Pi \nabla V = 0$		017 214 7678
$ _{a}$ <u>tabunys</u>		619-219-9618
9		614-314-42B
<ol> <li>9</li></ol>		
8 9 Existing Traffic Control Devices Type of Warning Devices	Installed?	Quantity/Comments
8 9 Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs	Installed?	Quantity/Comments
8 9 Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs 'Stop' Signs	Installed?	Quantity/Comments
8	Installed?	Quantity/Comments
8	Installed?	Quantity/Comments
8	Installed?       Yes     No	Quantity/Comments
8	Installed?       Yes     No	Quantity/Comments
8	Installed?         Yes       No	Quantity/Comments
<ul> <li>8</li></ul>	Installed?         Yes       No	Quantity/Comments
<ul> <li>8</li></ul>	Installed?         Yes       No	Quantity/Comments
<ul> <li>8</li></ul>	Installed?         Yes       No	Quantity/Comments
<ul> <li>8</li></ul>	Installed?         Yes       No	Quantity/Comments
<ul> <li>8</li></ul>	Installed?         Yes       No	Quantity/Comments
<ul> <li>8</li></ul>	Installed?         Yes       No	Quantity/Comments Quantity/Comments Number: Length:
<ul> <li>8</li></ul>	Installed?         Yes       No         Yes       Yo	Quantity/Comments
<ul> <li>8</li></ul>	Installed?         Yes       No	Quantity/Comments       Quantity/Comments       Number:       Length:       1
<ul> <li>8</li></ul>	Installed?         Yes       No	Quantity/Comments       Quantity/Comments       Number:       Length:       /
<ul> <li>8</li></ul>	Installed?         Yes       No	Quantity/Comments Quantity/Comments Number: Length:
<ul> <li>8</li></ul>	Installed?         Yes       No         Yes	Quantity/Comments Quantity/Comments

	Initial Information (from database)		Revised		
Number & dates of crashes			<b>*</b>		
in previous 5 years				0	
Hazard Ranking	3016	)	Date Run: 4/15/	19	
Railroad Data					
Railroad Characteris	stics	Initial Informatio	n (from database)	Revised	
Total trains per day		8			
<   per day					
Day thru trains		2			
Night thru trains					•••••
Daytime switching moveme	ents				
Nighttime switching moven	nents			· · · · · · · · · · · · · · · · · · ·	
l otal number of tracks		2	<b>et.</b>	·	
Number of main tracks					
Number of other tracks					
Trainel unin speed			Mpn		<del>_</del>
Amtmk			171 277		
		<i>O</i> _			
If non-gated crossing, is clearin	g sight distan	ce adequate in all quad	rants? (See Table 1)	📕 🖉 No	
If multiple tracks, can two train	is occupy cro	ossing at the same time	? No		
Can one train block the motor	ists' view of a	another train at crossi	ng? 🔤 Tes (Explain be	low) 🗍 No	
Are there other track(s) crossi	ing this same	roadway within 100 ft	of this crossing?	es <b>Latio</b>	
If yes, Crossing DOT #(if d	ifferent)				
If yes distance	(take mea	surromont hotwoon tra	ممجام مجاجعة الممممم وأم	A second s	
Il yes, distance		Sui ement Detween tia	ick centerlines at close	st point along roadway)	
Roadway Data			ick centenines at close	st point along roadway)	
Roadway Data Local Highway Authority:		v of Deli	tek centernines at close	st point along roadway)	
Roadway Data Local Highway Authority: Roadway Characteria		V 0+ Della Initial Informatio	h (from database)	Revised	
Roadway Data Local Highway Authority: Roadway Characteria Average daily traffic	stics	V of Delp Initial Informatio	n (from database)	Revised	· · · · · · · · · · · · · · · · · · ·
Roadway Data         Local Highway Authority:         Roadway Characteris         Average daily traffic         Highway paved	stics	V OF Delp Initial Informatio	n (from database)	Revised Processory 7 Yes No	· · · · · · · · · · · · · · · · · · ·
Roadway Data         Local Highway Authority:         Roadway Characteria         Average daily traffic         Highway paved         Roadway Surface:       Blacktop		V OF Delf Initial Informatio	n (from database)	Revised Revised Yes No	· · · · · · · · · · · · · · · · · · ·
Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: <u>714</u> ft.	stics	V OF Delf Initial Informatio	n (from database)	Revised Revised Yes No	· · · · · · · · · · · · · · · · · · ·
Roadway Data         Roadway Data         Local Highway Authority:         Roadway Characteris         Average daily traffic         Highway paved         Roadway Surface:       Blacktop         Roadway width:       714-ft.         Number of highway lanes	stics	V OF Delf Initial Informatio	h (from database) ( 07)	Revised Proc 0 7 Yes No Z	· · · · · · · · · · · · · · · · · · ·
Roadway Data         Local Highway Authority:         Roadway Characteris         Average daily traffic         Highway paved         Roadway Surface:       Blacktop         Roadway width:       TLL ft.         Number of highway lanes       Urban or Rural	stics	V OF Delp Initial Informatio	n (from database)	Revised <u>Revised</u> <u>Yes</u> <u>No</u> <u>Z</u>	
Roadway Data         Roadway Authority:         Roadway Characteris         Average daily traffic         Highway paved         Roadway Surface:         Blacktop         Roadway width:         7.14-ft.         Number of highway lanes         Urban or Rural         Vehicle Speed:         ZS	stics	V of Delp Initial Informatio	( 07)	Revised Prop 07 Yes No Z Lichan	
Roadway Data         Local Highway Authority:         Roadway Characteris         Average daily traffic         Highway paved         Roadway Surface:       Blacktop         Roadway width:       Theft.         Number of highway lanes       Urban or Rural         Vehicle Speed:       Theft.         No       No         School Bus Operation:       No		V OF Delp Initial Informatio	(07)	Revised <u>Acco</u> 0.7 <u>Yes</u> No <u>Z</u> <u>Lirbah</u>	
Roadway Data         Roadway Data         Local Highway Authority:         Roadway Characteris         Average daily traffic         Highway paved         Roadway Surface:         Blacktop         Roadway width:         7.4         Ft.         Number of highway lanes         Urban or Rural         Vehicle Speed:         7.5         MPH         School Bus Operation:         No         Hazardous Materials Trucks:		V OF Delp Initial Informatio	n (from database) ( 07) ar	Revised Prop 07 Yes No Z Lichan	
Roadway Data         Roadway Data         Local Highway Authority:         Roadway Characteris         Average daily traffic         Highway paved         Roadway Surface:       Blacktop         Roadway Surface:       Blacktop         Roadway width:       Theft.         Number of highway lanes       Urban or Rural         Vehicle Speed:       Z_S       MPH         School Bus Operation:       No         Hazardous Materials Trucks:       Shoulders:       No		V OF Delp Initial Informatio EX Tes No Concrete Other Urban Es Amount Fres Z Amount	Int	Revised <u>Revised</u> <u>Yes</u> <u>No</u> <u>Z</u> <u>Urbah</u>	
Roadway Data         Roadway Data         Local Highway Authority:         Roadway Characteris         Average daily traffic         Highway paved         Roadway Surface:         Blacktop         Roadway Surface:         Blacktop         Roadway Width:         The ft.         Number of highway lanes         Urban or Rural         Vehicle Speed:         ZS       MPH         School Bus Operation:       No         Hazardous Materials Trucks:       Shoulders:         Shoulders:       No         Is the shoulder surfaced?       N		V OF Delp Initial Informatio	Int	Revised <u>Revised</u> <u>Yes</u> <u>No</u> <u>Z</u> <u>Urbah</u>	
Roadway Data         Local Highway Authority:         Roadway Characteria         Average daily traffic         Highway paved         Roadway Surface:       Blacktop         Roadway Surface:       Blacktop         Roadway Surface:       Blacktop         Roadway Width:       714-ft.         Number of highway lanes       Urban or Rural         Vehicle Speed:       75_ MPH         School Bus Operation:       No         Hazardous Materials Trucks:       Shoulders:       No         Sthe shoulder surfaced?       N         Is there existing guardrail along	stics	V OF Delf Initial Informatio	In (from database)       ( 07)       ar       ar       ar       ar       Yes	Revised <u>Revised</u> <u>Yes</u> <u>No</u> <u>Z</u> <u>Lsrbah</u>	
Roadway Data         Local Highway Authority:         Roadway Characteris         Average daily traffic         Highway paved         Roadway Surface:       Blacktop         Roadway Surface:       Blacktop         Roadway Surface:       Blacktop         Roadway Surface:       Blacktop         Roadway width:       714 ft.         Number of highway lanes       Urban or Rural         Vehicle Speed:       7.5 MPH         School Bus Operation:       No         Hazardous Materials Trucks:       Shoulders:       No         Shoulders:       No       70         Is there existing guardrail along       Is there existing guardrail along	stics	V OF Delf Initial Informatio	In (from database) ( ar ar ant NoYes NoYes	Revised <u>Acco</u> 0.7 <u>Yes</u> No <u>Z</u> <u>Lsrbah</u>	
Roadway Data         Roadway Data         Local Highway Authority:         Roadway Characteris         Average daily traffic         Highway paved         Roadway Surface:       Blacktop         Roadway Surface:       Blacktop         Roadway width:       The         Roadway width:       The         Vehicle Speed:       The         Vehicle Speed:       The         School Bus Operation:       No         Hazardous Materials Trucks:       No         Shoulders:       No       The         Is the shoulder surfaced?       No         Is there existing guardrail along       Is stopping site distance adequate         Quadrant       Con	stics	V OF Delp Initial Informatio	Int Contentines at close	Revised Pres 7 Yes No Z L.Chah pproach(es) Curb and Gutter:	
Roadway Data         Local Highway Authority:         Roadway Characteria         Average daily traffic         Highway paved         Roadway Surface:       Blacktop         Roadway Surface:       Blacktop         Roadway Surface:       Blacktop         Roadway Surface:       Blacktop         Roadway Width:       714-ft.         Number of highway lanes       Urban or Rural         Vehicle Speed:       725-MPH         School Bus Operation:       No         Hazardous Materials Trucks:       Shoulders:       No         Is the shoulder surfaced?       N         Is there existing guardrail along       Is stopping site distance adequal         Quadrant       O         Functional (Curb height =	stics	V of Delp Initial Informatio	Int Contentional (Cur	Revised         Image: Second System	
Roadway Data         Local Highway Authority:         Roadway Characteris         Average daily traffic         Highway paved         Roadway Surface:       Blacktop         Roadway Surface:       Blacktop         Roadway Surface:       Blacktop         Roadway Surface:       Blacktop         Roadway Width:       714 ft.         Number of highway lanes       Urban or Rural         Vehicle Speed:       725 MPH         School Bus Operation:       No         Hazardous Materials Trucks:       Shoulders:       No         Shoulders:       No       70         Is there existing guardrail along       Is there existing guardrail along       Is stopping site distance adequate         Quadrant       Co       70         Is Non-functional (Curb height =       70	stics	V OF Delp Initial Informatio	In (from database) ( ar	Revised         Image: Stepoline along roadway)         Image: Stepoline along roadway)	

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Pedestrians: No Pres	
Is sidewalk present? No Dres	
Is there a nearby intersection that could cause queuing over the o If yes, Distance	crossing?
Is this intersection signalized?	
Are the signals currently interconnected with the existing cross	sing warning devices? 💭 Ho 👘 🗌 Yes
Is it the consensus of the Diagnostic Review Team that this is a p	otential closure project:
Explain reasons:	-
Type of Development	
Open Space Institutional Location of near	by schools:
Residential	4-blacks
Utility Information	
Is commercial power available? [] No [] Yes	
	Dhave Mussher
Utility Provider (Company Name)	rnone Number
Nearest Available Power Source (1) (105512 5	· · · · · · · · · · · · · · · · · · ·
What other utilities are present?	
is there potential utility conflict(s) if tes in the interview is the second seco	Inknown
Diagnostic Team Recommendations	
	Quadrants Needed
Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS/Cants	· · · · · · · · · · · · · · · · · · ·
AFLS / Gates	
ArLS/ Gates / Cants	
Sidelights	
Guardrail Needed	
Install/Replace curb	
Other (define)	
Comments:	
Install/upgrade traffic signal preemption	
No improvements needed	
Other (define)	
Field Dimensions	



Field S	Sketch		

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#### TABLE I

## Clearing Sight Distances

Maximum Authorized Train Speed	Distance (dT) Along Railroad from Crossing (ft)
1 - 10	240
15	360
20	480
25	600
30	720
35	840
4	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 <u>non-gated crossings</u> 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	
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 5foot 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.







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

Diagnostic	Review	Team	Survey
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		Date: $4/-21-09$
Location Data		
Street or Road Name: Jefferson	Street	in the second
Roure/Road Number (i.e. Twp., Co., SR or US) (include SLM	if State or US route)	AAR-DOT No: 572 THT W
County: Township:	City:	Dolate
Railroad AFILLE	Railroad D. I.	Branch/Line
Name: EFW + E	Division: FitoDurgh	Name Ft, Wayne IIn
Timetable Station: Delphos		274.71
On-Site Review Team		
Include: Name - Organization - Phone Number)		
1. MEL HOLDER	BUNGE	419-692-6010
2. Mike Gallmeica	Delphas	625-4010
3. G. R.S. Benguist	Delahi	\$\$ 69 5-40/0
1 (Broklas MARIA)	TV CO	614-75 9107
5 The Clark	RIA Kosto	559. 80 - 10 Ma
6 TECR J FRAM	Xa Ridu	GAA-A77-2103
- LESUE SCHONDER	RIA ENSIS	2-4-538-6056
1. <u>LESCIE SCHOUDE</u>	<u> </u>	614 - 274 (2780)
8. log Larrus	UKK	019-319-9018
9	······································	·
Existing Traffic Control Devices		
Existing Traffic Control Devices Type of Warning Devices	Installed?	Quantity/Comments
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs	Installed?	Quantity/Comments
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs 'Stop' Signs	Installed?	Quantity/Comments
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs 'Stop' Signs 'Stop Ahead' Signs	Installed?	Quantity/Comments
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs 'Stop' Signs 'Stop Ahead' Signs Pavement Markings	Installed?	Quantity/Comments
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs 'Stop' Signs 'Stop Ahead' Signs Pavement Markings Crossbucks	Installed?           Installed?           Imstalled?           Im	Quantity/Comments
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs 'Stop' Signs 'Stop Ahead' Signs Pavement Markings Crossbucks Number of Tracks Signs	Installed?           Image: Second state of the second st	Quantity/Comments
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs 'Stop' Signs 'Stop Ahead' Signs Pavement Markings Crossbucks Number of Tracks Signs Inventory Tags	Installed?           Yes         No	Quantity/Comments
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs 'Stop' Signs 'Stop Ahead' Signs Pavement Markings Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal	Installed?           In	Quantity/Comments
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs 'Stop' Signs 'Stop Ahead' Signs Pavement Markings Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights	Installed?           Yes         No	Quantity/Comments
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs 'Stop' Signs 'Stop Ahead' Signs Pavement Markings Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights	Installed?         Yes       No	Quantity/Comments
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs 'Stop' Signs 'Stop Ahead' Signs Pavement Markings Crossbucks Number of Tracks Signs Inventory Tags Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights	Installed?         Installed?         Imstalled?	Quantity/Comments
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs 'Stop' Signs 'Stop Ahead' Signs Pavement Markings Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates	Installed?         ?Yes       No         ?Yes       No         ?Yes       ?No         ?Yes       ?No         ?Yes       No	Quantity/Comments
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs 'Stop' Signs 'Stop Ahead' Signs Pavement Markings Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells	Installed?	Quantity/Comments
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs 'Stop' Signs 'Stop Ahead' Signs Pavement Markings Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells Sidewalk Gate Arms	Installed?	Quantity/Comments
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Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs 'Stop' Signs 'Stop Ahead' Signs Pavement Markings Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells Sidewalk Gate Arms 'No Turn' Signs Illumination	Installed?	Quantity/Comments
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Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs 'Stop' Signs 'Stop Ahead' Signs Pavement Markings Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells Sidewalk Gate Arms 'No Turn' Signs Illumination Is crossing flagged by train crew? Other	Installed?         ?Yes       No         Yes	Quantity/Comments
Existing Traffic Control Devices Type of Warning Devices Advance Warning Signs 'Stop' Signs 'Stop Ahead' Signs Pavement Markings Crossbucks Number of Tracks Signs Inventory Tags Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights Side Lights Automatic Gates Bells Sidewalk Gate Arms 'No Turn' Signs Illumination Is crossing flagged by train crew? Other	Installed?	Quantity/Comments

UPDATED (12/2006)

Initial Information (from database)			Revise	d	
Number & dates of crashes					
in previous 5 years		0		$\square$	
Hazard Ranking	242		Date Run: 6///5/	09	
Railroad Data					
Railroad Characteris	itics	Initial Information	n (from database)	Revise	ed
Total trains per <b>da</b> y		8			
< I per day			······································		
Day thru trains		~ ~	<u></u>	l L	<u></u>
Night thru trains					
Daytime switching moveme	ents	33		·	
Nighttime switching movem	nents				
Total number of tracks		3			
Number of main tracks					
Number of other tracks		2			
Maximum train speed	<u> </u>	40 N	<u>kph</u>		·
Typical train speed		40 M	<i>р</i> <u>н</u>		
Amtrak		<u> </u>			
If non-gated crossing, is clearin	g sight distan	ce adequate in all quad	rants? (See Table 1)	Pres No	
If multiple tracks, can two train	ns occupy cro	ssing at the same time	? Yes No		
Can one train block the motor	ists' view of a	another train at crossir	ng? 📝 Yes (Explain be	low) 🔲 No	
Are there other track(s) crossi	ing this same	roadway within 100 ft	of this crossing?	res 🗖 No	
If yes, Crossing DOT #(if d	ifferent)				
	1				
If yes, distance	(take mea	isurement between tra	ck centerlines at close	st point along roadway)	
Roadway Data	(take mea	isurement between tra	ck centerlines at close	st point along roadway)	
Roadway Data Local Highway Authority:	(take mea	City of 1	Delphos	st point along roadway)	Ϋ́.
Roadway Data Local Highway Authority: Roadway Characteris	(take mea	City of L Initial Information	Delphos n (from database)	st point along roadway) Revise	ed
Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic	(take mea	City of 1 Initial Information	Delphos n (from database)	st point along roadway) Revise	ed 07
Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved	(take mea	Initial Information	Delphos n (from database)	st point along roadway) Revise 700 Fes No	ed
Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: Blacktop	stics	Surement between tra	Delphos Delphos n (from database)	st point along roadway) Revise 700 Tes No	ed
Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: 28 ft.	(take mea stics	Initial Information	Delphos n (from database)	st point along roadway) Revise 700 Fes No	ed 07
Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: 28_ft. Number of highway lanes	stics	Surement between tra	Delphos Delphos n (from database) (07)	st point along roadway) Revise 700 Fes No	ed 07
If yes, distance         Roadway Data         Local Highway Authority:         Roadway Characteris         Average daily traffic         Highway paved         Roadway Surface:         Blacktop         Roadway width:         25_ft.         Number of highway lanes         Urban or Rural	(take mea stics	Initial Information	Corrections at close Delphos (from database) (07) er	Revise	ed 07
Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: 25_ft. Number of highway lanes Urban or Rural Vehicle Speed: 25_MPH	stics	Surement between tra	Delpho5 n (from database)	st point along roadway) Revise 700 Fes No	ed 07
Roadway Data Local Highway Authority: Roadway Characteris Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: 28_ft. Number of highway lanes Urban or Rural Vehicle Speed: 25_MPH School Bus Operation: No	stics	Surement between tra	Delphos Delphos n (from database) (07)	st point along roadway) Revise 700 Fes No	ed 07
If yes, distance         Roadway Data         Local Highway Authority:         Roadway Characteris         Average daily traffic         Highway paved         Roadway Surface:         Blacktop         Roadway width:         25         Urban or Rural         Vehicle Speed:         School Bus Operation:         Ino         Hazardous Materials Trucks:	(take mea stics Gravel Ye Ye	surement between tra	Delphos Delphos n (from database) (07) er	Revise	ed 07
If yes, distance         Roadway Data         Local Highway Authority:         Roadway Characteris         Average daily traffic         Highway paved         Roadway Surface:         PBlacktop         Roadway width:         28         Local Highway paved         Roadway Surface:         PBlacktop         Roadway width:         28         Philde Speed:         Yehicle Speed:         Yehicle Speed:         Yohool Bus Operation:         Yohool Bus Operation:         School Bus Operation:         Yohool Process         No	(take mea stics ) [] Gravel ] No es	Surement between tra	Delphos Delphos n (from database) (07) er	st point along roadway) Revise 700 Fes No	ed 07
If yes, distance         Roadway Data         Local Highway Authority:         Roadway Characteris         Average daily traffic         Highway paved         Roadway Surface:         Blacktop         Roadway Surface:         Blacktop         Roadway Surface:         Blacktop         Roadway width:         25         Humber of highway lanes         Urban or Rural         Vehicle Speed:         25         MPH         School Bus Operation:         No         Shoulders:         No         Shoulders:	(take mea stics Gravel Ye No Ye No Ye	Initial Information 700 100 100 100 100 100 100 100	Delphos Delphos n (from database) (07) er	st point along roadway) Revise 700 Fes No	ed 07
If yes, distance         Roadway Data         Local Highway Authority:         Roadway Characteris         Average daily traffic         Highway paved         Roadway Surface:         Blacktop         Roadway width:         25         Local Highway paved         Roadway Surface:         Blacktop         Roadway width:         25         Roadway width:         25         Number of highway lanes         Urban or Rural         Vehicle Speed:         25         MPH         School Bus Operation:         No         Hazardous Materials Trucks:         Shoulders:         No         Is the shoulder surfaced?         N         Is there existing guardrail along	(take mea stics b) [] Gravel b) [] Ye ] No es No [] Ye g roadway in	Initial Information	Ack centerlines at close	st point along roadway) Revise 700 Fes No	ed 07
If yes, distance         Roadway Data         Local Highway Authority:         Roadway Characteris         Average daily traffic         Highway paved         Roadway Surface:         PBlacktop         Roadway width:         28         Local Highway paved         Roadway Surface:         PBlacktop         Roadway width:         28         Provide Speed:         Yehicle Speed:         Yehicle Speed:         Yohol Bus Operation:         Yoho         Hazardous Materials Trucks:         Shoulders:         No         Is the shoulder surfaced?         N         Is there existing guardrail along         Is stopping site distance adequal	(take mea stics ) [] Gravel ] Gravel ] No es No g roadway in ate? (See Tab	Initial Information	Ick centerlines at close Delpho5 n (from database) (07) er int io [] Yes No If no, deficient a	st point along roadway) Revise 700 Fes No	ed 07
If yes, distance         Roadway Data         Local Highway Authority:         Roadway Characteris         Average daily traffic         Highway paved         Roadway Surface:         PBlacktop         Roadway Surface:         PBlacktop         Roadway Surface:         PBlacktop         Roadway width:         25         Roadway width:         26         Roadway width:         25         Roadway width:         26         Roadway width:         26         Roadway width:         26         Roadway width:         26         Number of highway lanes         Urban or Rural         Vehicle Speed:         26         MPH         School Bus Operation:         Pho         Hazardous Materials Trucks:         Shoulders:         No         1s the shoulder surfaced?         N         Is there existing guardrail along         Is stopping site distance adequal         Quadrant	(take mea stics ) [] Gravel ) [] Ye ] No es No [] Ye g roadway in ate? (See Tab Curb and Gutt	Initial Information 700 Initial Information 700 Tes Oncrete Othe Concrete Othe Concrete Amount Pres Amount Yes crossing vicinity? Amou Yes I for the formation Pres I formation	Ack centerlines at close Delpho5 n (from database) (07) ar ar int io Yes No If no, deficient a Quadrant	st point along roadway)  Revise 700 Fes No  res No  rpproach(es) Curb and Gutter	ed 077
If yes, distance         Roadway Data         Local Highway Authority:         Roadway Characteris         Average daily traffic         Highway paved         Roadway Surface:         Blacktop         Roadway width:         25         Local Highway paved         Roadway Surface:         Blacktop         Roadway width:         25         Roadway width:         25         Number of highway lanes         Urban or Rural         Vehicle Speed:         25         MPH         School Bus Operation:         No         Hazardous Materials Trucks:         Shoulders:         No         Is the shoulder surfaced?         N         Is there existing guardrail along         Is stopping site distance adequal         Quadrant         C         Functional (Curb height =	take mea stics Gravel Gravel Ye No es No groadway in ate? (See Tab Curb and Gutte = 4" or more	Initial Information	Ick centerlines at close  Delphos  n (from database)  (07)  er  int  No [] Yes No If no, deficient a  Quadrant  [] Functional (Cui	Revise 700 Tes No Urbun upproach(es) Curb and Gutter rb height = 4" or more)	ed 07
If yes, distance         Roadway Data         Local Highway Authority:         Roadway Characteris         Average daily traffic         Highway paved         Roadway Surface:         Roadway Surface:         Blacktop         Roadway Surface:         Roadway Surface:         Roadway Surface:         Roadway Surface:         Blacktop         Roadway Surface:         Roadway Surface:         Blacktop         Roadway width:         22         Roadway width:         28         Tt         Number of highway lanes         Urban or Rural         Vehicle Speed:         25         MPH         School Bus Operation:         Tho         Hazardous Materials Trucks:         Shoulders:         No         Is the shoulder surfaced?         N         Is there existing guardrail along         Is stopping site distance adequal         Quadrant         C         Functional (Curb height =         Non-functional (Curb height =	stics stics Gravel Gravel Ye No es No groadway in ate? (See Tab Curb and Gutt = 4" or more ight = Less th	Initial Information	Ick centerlines at close Delpho5 n (from database) (07) er int io Yes No If no, deficient a Quadrant I Functional (Cur Non-functional	Revise 700 Pres No Urbun Urbun Lurbun Lurband Gutter rb height = 4" or more) (Curb height = Less than	ed 07

Pedestrians: 🔲 No 🔄 Yes	
Is sidewalk present? No Yes	
Is there a nearby intersection that could cause queuing ov	ver the crossing? ZNo Yes
If yes, Distance	
Is this intersection signalized? No	
Are the signals currently interconnected with the existing	ng crossing warning devices? 🔄 🌃 💭 Yes
Is it the consensus of the Diagnostic Review Team that th Explain reasons:	is is a potential closure project. The Tes
Type of Development	
Open Space Institutional Location	of nearby schools:
Industrial Commercial	
Residential	
Utility Information	
Is commercial power available? No	n an
Utility Provider (Company Name) AEP	Phone Number
Nearest Available Power Source	
Is there potential utility conflict(s) Yes No	Unknown
Diagnostic Team Recommendations	
	Quadrants Needed
Install/upgrade active devices	
Automatic masting Lignes (AFLS)	
AFIS/ Gares / Cants	
	······································
Sidelights	
Guardrail Needed	
Install/Replace curb	
Other (define)	
Comments:	
Install/upgrade traffic signal preemption	
No improvements needed	
Other (define)	
Field Dimensions	

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#### TABLE I

#### Clearing Sight Distances

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

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

Notes:

All calculated distances are rounded up to the next higher 5foot 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 <u>non-gated crossings</u> 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.



