

DC FILE

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RECEIVED-DOCKETING DIV

2009 SEP 15 AM 8:03

Public Utilities
Commission of Ohio

PUCO

Memo

To: Docketing Division

From: George Martin, Grade Crossing Planner, Rail Division

Re: In the matter of the authorization of CSX Transportation to install active grade crossing warning devices in Union, Auglaize and Butler Counties

Date: September 14, 2009

The Ohio Rail Development Commission (ORDC) has authorized funding for the installation of flashing lights and roadway gates at the following CSX Transportation (CSX) grade crossings:

Union County, near Marysville, Adams Rd/CR 34, DOT# 513-297B

Auglaize County, near Wapakoneta, Short Rd/TR 132, DOT# 155-272S

Butler County, in Trenton, S. First St., DOT# 152-421F

These grade crossings were surveyed between July 21 and July 28, 2009 because of their hazard index, and were found to warrant upgrades.

These projects will be actual cost and will be 100% federally funded. Staff requests an Entry with plans and estimates to be submitted to the Commission within 90 days, and completion within one year. Upon approval of the plans and estimates by ORDC construction may commence. A suggested case coding and heading would be:

PUCO Case No. 09- **B04** -RR-FED In the matter of the authorization of CSX Transportation to install active grade crossing warning devices in Union, Auglaize and Butler Counties

C:Legal Department

Please serve the following parties of record

Ms Susan Kirkland

Ohio Rail Development Commission

1980 West Broad Street

Columbus, Oh 43223

Mr Ben Biesterveld

CSX Transportation

500 Water St, J-301

Jacksonville, Fl 32202

Mr Tom Messerly

Union County Engineer's Office

233 W Sixth St

Marysville, Oh 43040

Mr Robert Leichman

Service Director

11 East State St

Trenton, Oh 45067-1439

Pusheta Township Trustees

14002 Pusheta Rd

Wapakoneta, Oh 45895

Mr Rex Ketterheinrich
Safety Service Director
701 Parlette Ct
PO Box 269
Wapakoneta, Oh 45895

Union Rural Electric
15461 US RT 36
Marysville, Oh 43040

Dayton Power & Light
PO Box 1247
Dayton, Oh 45401-1247

Duke Energy
1000 East Main St
Mail Drop WP 890
Plainfield, In 46168

OHIO RAIL DEVELOPMENT COMMISSION INTEROFFICE COMMUNICATION

TO: George Martin, Railroad Division, PUCO
FROM: Joseph N. Reinhardt, Grade Crossing Specialist
SUBJECT: Grade Crossing Warning Projects
DATE: September 9, 2009

You may authorize the following warning project to proceed with the non-field work involved with the below mentioned non-lump sum project. This construction authorization is made with the stipulation and understanding that any field work needs prior approval before the work begins. This authorization is made with the stipulation and understanding that an approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit.

Project List

CSX Transportation:

Union County, Adams Road, County Road 34, DOT 513297B

Thank you for your assistance with these matters.

JR:jnr

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

RECEIVED
PUBLIC UTILITIES
COMMISSION
2009 SEP 14 PM 2:00
RAIL DIVISION

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

TO: George Martin, Planner, Railroad Division, PUCO
FROM: Susan Kirkland, Supervisor, Rail-Highway Safety Section
BY: Tim Perkins, Grade Crossing Specialist *Tim Perkins*
SUBJECT: Grade Crossing Warning Projects
DATE: September 9, 2009

You may authorize the CSX Transportation, Inc. to proceed with the non-field work for these projects. This construction authorization is made with the stipulation and understanding that any field work needs prior approval before work begins. This authorization is made with the stipulation and understanding that an approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit. The construction portion and preliminary engineering will be financed with federal funds.

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

AUG - T.R. 132, Short Road - CSX AAR No. 155 272 S (Actual cost)

BUT - First Street - CSX AAR No. 152 421 F (Actual cost)

Thank you for your assistance with this matter.

TP:tp

RECEIVED
PUBLIC UTILITIES
COMMISSION
2009 SEP 14 PM 2:00
RAIL DIVISION



Diagnostic Review Team Survey

Date: 7/21/09 930 AM

Location Data			
Street or Road Name: ADAMS RD			
Route/Road Number (i.e. Twp., Co., SR or US) CR 34 (include SLM if State or US route)		AAR-DOT No.: 513-297B	
County: UNION	Township: JEROME	City: (In or Near) MARYSVILLE	
Railroad Name: CSX	Railroad Division: GREAT LAKES	Branch/Line Name:	
Nearest RR Timetable Station: SCOTSLAWN		RR Milepost: QT 111.29	

On-Site Review Team			
(Include: Name - Organization - Phone Number)			
1.	GEORGE MARTIN	PVCO	614-752-9107
2.	TOM MESSELEY	Union County	937-645-3118
3.	Joe Reinhardt	ORVC	614-644-0291
4.	R.H. Kossin	CSX	614-344-3651 (Rob)
5.	J.A. Genser	CSX	937-903-7164 (Jerry)
6.	J.R. Blum	CSX	419-989-0087 (Gary)
7.			
8.			
9.			
10.			

Existing Traffic Control Devices			
Type of Warning Devices	Installed?		Quantity/Comments
Advance Warning Signs	☒ Yes	☒ No	2
'Stop' Signs	☐ Yes	☒ No	
'Stop Ahead' Signs	☐ Yes	☒ No	
Pavement Markings	☒ Yes	☐ No	2
Crossbucks	☒ Yes	☐ No	2 STANDARD
Number of Tracks Signs	☐ Yes	☒ No	
Inventory Tags	☐ Yes	☒ No	
Interconnected Highway Traffic Signal	☐ Yes	☒ No	
Mast-Mounted Flashing Lights	☐ Yes	☒ No	
Cantilever Flashing Lights	☐ Yes	☒ No	Number: Length:
Side Lights	☐ Yes	☒ No	
Automatic Gates	☐ Yes	☒ No	Number: Length:
Bells	☐ Yes	☒ No	
Sidewalk Gate Arms	☐ Yes	☒ No	
'No Turn' Signs	☐ Yes	☒ No	
Illumination	☐ Yes	☒ No	
Is crossing flagged by train crew?	☐ Yes	☒ No	
Other	☐ Yes	☐ No	

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

	Initial Information (from database)	Revised
Number & dates of crashes in previous 5 years	1-1/17/09	
Hazard Ranking <u>92</u>	Date Run: <u>6/30/09</u>	

Railroad Data

Railroad Characteristics	Initial Information (from database)	Revised
Total trains per day	<u>22</u>	
< 1 per day		
Day thru trains	<u>9</u>	
Night thru trains	<u>10</u>	
Daytime switching movements	<u>3</u>	
Nighttime switching movements	<u>0</u>	
Total number of tracks	<u>1</u>	
Number of main tracks	<u>1</u>	
Number of other tracks	<u>0</u>	
Maximum train speed	<u>50</u>	
Typical train speed	<u>45</u>	
Amtrak	<u>NO</u>	

If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table I) ☒ Yes ☐ NoIf multiple tracks, can two trains occupy crossing at the same time? ☐ Yes ☒ NoCan one train block the motorists' view of another train at crossing? ☐ Yes (Explain below) ☒ NoAre there other track(s) crossing this same roadway within 100 ft of this crossing? ☐ Yes ☒ No

If yes, Crossing DOT #(if different) _____

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

Roadway DataLocal Highway Authority:
(Who maintains this roadway?)UNION COUNTY

Roadway Characteristics	Initial Information (from database)	Revised
Average daily traffic	<u>294-2004</u>	
Highway paved	☒ Yes ☐ No	☒ Yes ☐ No
Roadway Surface: ☒ Blacktop ☐ Gravel ☐ Concrete ☐ Other _____		
Roadway width: <u>18</u> ft.		
Number of highway lanes	<u>2</u>	
Urban or Rural?	<u>RURAL</u>	
Vehicle Speed: <u>55</u> MPH		

School Bus Operation: ☐ No ☒ Yes 12 AmountHazardous Materials Trucks: ☐ No ☒ Yes _____ Amount FERTILIZER, PROPANEShoulders: ☒ No ☐ YesIs the shoulder surfaced? ☒ No ☐ YesIs there existing guardrail along roadway in crossing vicinity? ☒ No ☐ YesIs stopping site distance adequate? (See Table 2) ☒ Yes ☐ No If no, deficient approach(es) _____

Quadrant _____ Curb and Gutter: ☐ Functional (Curb height = 4" or more) ☐ Non-functional (Curb height = Less than 4") ☒ None	Quadrant _____ Curb and Gutter: ☐ Functional (Curb height = 4" or more) ☐ Non-functional (Curb height = Less than 4") ☒ None
Pedestrians: ☒ No ☐ Yes	
Is sidewalk present? ☒ No ☐ Yes	
Is there a nearby intersection that could cause queuing over the crossing? ☒ No ☐ Yes If yes, Distance _____	
Is this intersection signalized? ☒ No ☐ Yes	
Are the signals currently interconnected with the existing crossing warning devices? ☒ No ☐ Yes	
Is it the consensus of the Diagnostic Review Team that this is a potential closure project? ☒ No ☐ Yes Explain reasons:	

Type of Development

- | | |
|---|--|
| ☒ Open Space | ☐ Institutional |
| ☐ Industrial | ☒ Commercial |
| ☒ Residential | <i>Farms</i> |

Location of nearby schools:

WITHIN 3 MILES

Utility Information

Is commercial power available? ☐ No ☒ Yes

Utility Provider (Company Name) *UNION RURAL ELECTRIC* Phone Number _____

Nearest Available Power Source *AT KING*

What other utilities are present? *BURISH UTILITY (TYPE? VERIZON?) FIBER*

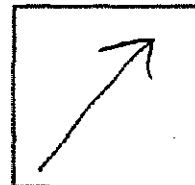
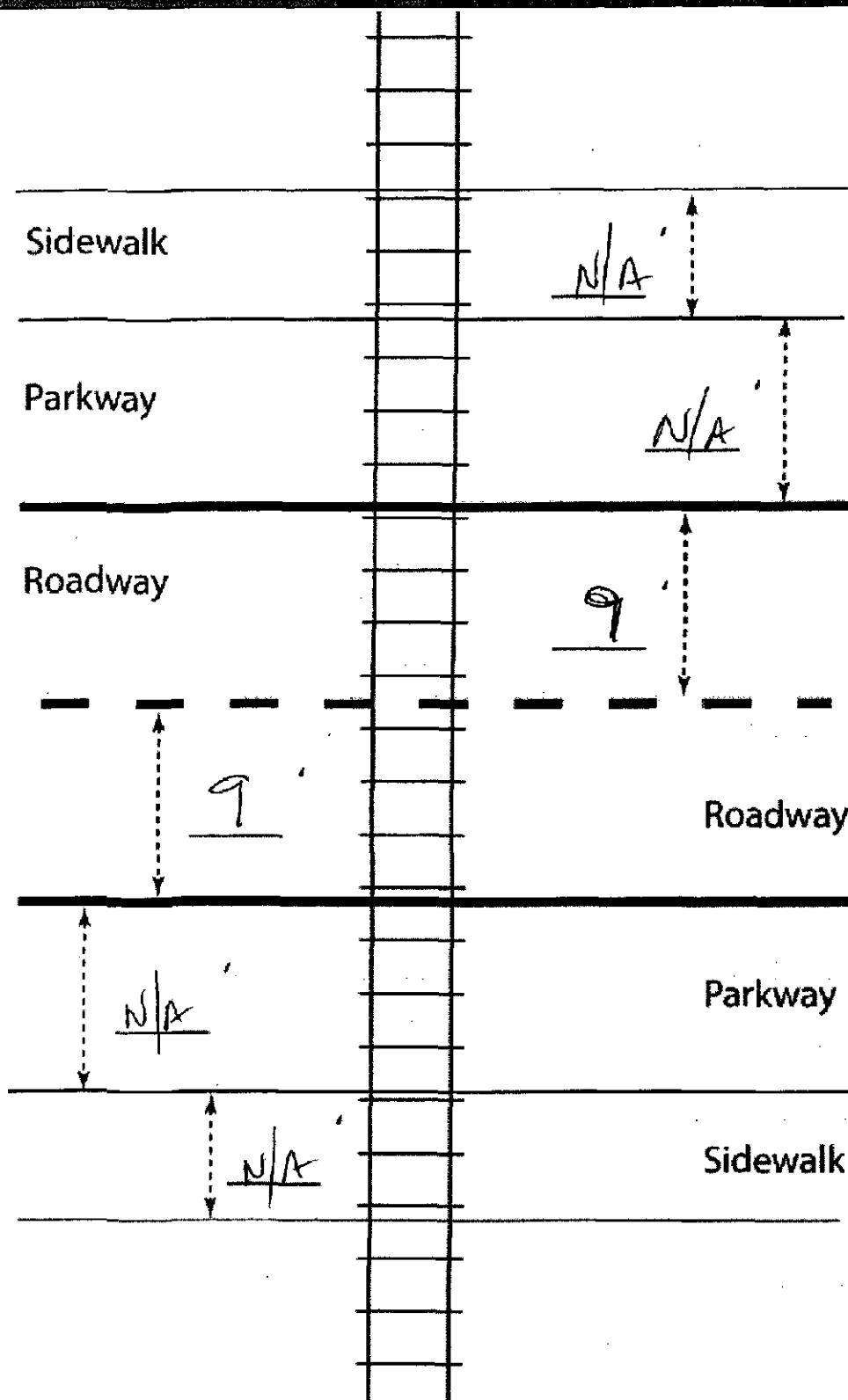
Is there potential utility conflict(s) ☐ Yes ☐ No ☒ Unknown

OPTIC-VERIZON

Diagnostic Team Recommendations

	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

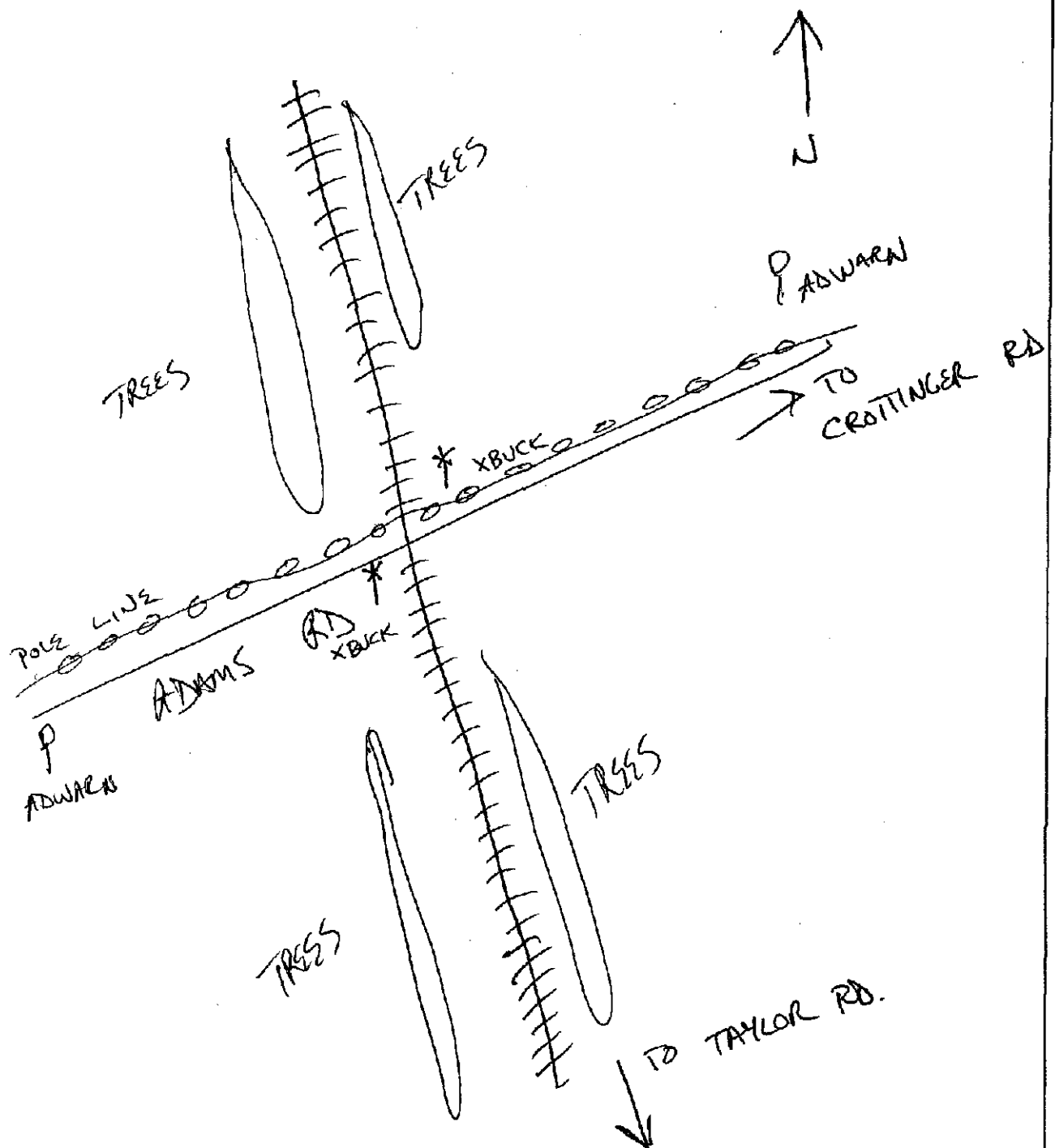


Show North Direction

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

Measurements by Gm

Field Sketch



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

Sketch by: GM

TABLE 1

Clearing Sight Distances

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

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

Notes:

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

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

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

Table 2

Stopping Sight Distances

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

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

Notes:

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

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

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

OHIO

TRAFFIC CRASH REPORT

Local Report #	Crash Severity	Private Property	Hit / Bldg	Phase Taken	OH-2	OH-3	OH-1P	OTHER
80-09-036	3 1 Fetal 3 POC 2 Injury 4 Unknown	X If Yes	1 1 Not Hit / Bldg 2 Struck 3 Uninvolved	X If Yes	X	X		
N.C.I.C. #	Reporting Agency	Unit #	Unit Error	Date of Crash				
08000	UNION COUNTY SHERIFF'S OFFICE	02	02 98 = Animal 89 = Unknown	01172009				

Time of Crash	Day of Week	City	Village	TWP	Name (Of City, Village or Township)	County	Latitude	Longitude
0903	SAT			X	JEROME	80		

CRASH OCCURRED ON	Type Loc	Type Location Point Used	LOCAL INFORMATION
ADAMS RD	1	1 Named Street 3 Numbered Route 2 Numbered Street	ADAMS RD

ATV REFERENCE	Reference Point Used	04 House Number	08 Place Name W/O Reference
CSX RAILROAD CROSSING	02	01 State Line 02 Intersection 2 Streets 03 County Line	09 Diversion 10 Signs or Route Vrg Reference

Unit #	# of Occ.	Name (Last, First, Middle)
A	01 03	

Address (Street, City, State, Zip Code)

CLEVELAND OH 44120

Social Security Number	Date of Birth	Age	Sex	Home Phone #	Work Phone #
				(216) 870-8074	(317) 267-4850

LP State	LP #	Injured Taken By	1 None 4 Other 2 EMS 5 Unknown 3 Police	Transported By	Injured Taken To
OH	CSXT5215				

Owner Name (If same, write "SAME")	Address (Street, City, State, Zip Code)
CSX TRANSPORTATION	19821 JOHNSON RD MARYSVILLE OH 43040

Year	Make	Model	Color	Insurance Company	Towing Service	Owner Phone #
2005	General Electric	Train locomotive	BLU	SELF	NONE	(937) 844-8813

Offense Charged	Offense Description	Section #	Local Code? X If Yes

Unit #	# of Occ.	Name (Last, First, Middle)
B	02 01	JONES GREGORY A

Address (Street, City, State, Zip Code)

PLAIN CITY OH 43084

12995 ADAMS RD	
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Date of Birth	Age	Sex	Home Phone #	Work Phone #
04291954	54	M	(614) 873-1244	

OH	RR911672	OH	AVW8177		
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Owner Name (If same, write "SAME")	Address (Street, City, State, Zip Code)
JONES GREGORY A	12995 ADAMS RD PLAIN CITY OH 43084

Year	Make	Model	Color	Insurance Company	Towing Service	Owner Phone #
2005	FORD	RAG	SIL	PROPERTY CASUALTY II	KIRBYS	(614) 873-1244

Offense Charged	Offense Description	Section #	Local Code? X If Yes

Unit #	Name (Last, First, Middle)	Home Phone #	Date of Birth	Age	Sex
C	MCKEE RAYMOND A	(740) 802-1027	03141954	54	M

Address (Street, City, State, Zip Code)	Injured Taken By	Transported By	Injured Taken To
3760 SR 529 CARDINGTON OH 43315			

Unit #	Name (Last, First, Middle)	Home Phone #	Date of Birth	Age	Sex
D	ROHRBAUGH CHAD M	(330) 760-1321	10161981	27	M

Address (Street, City, State, Zip Code)	Injured Taken By	Transported By	Injured Taken To
3596 KINGSTON DR BRUNSWICK OH 44212			

03 Seating Position	01 Safety Equipment	5 Air Bag	1 Air Bag Switch	1 Ejection	1 Trapped	1 Injuries
01 Front - Left (MC Driver)	01 None Used	1 Not Deployed	1 Not Present	1 Not Ejected	1 Not Trapped	1 No Injury
02 Front - Middle	02 Shoulder Belt Only	2 Deployed-Front	2 In On Position	2 Totally Ejected	2 Ejected by Mechanical Means	2 Possible
03 Front - Right	03 Lap Belt Only	3 Deployed-Side	3 In Off Position	3 Partially Ejected	3 Freed by Non-Mechanical Means	3 Non-Injury
04 Second - Left (MC Passenger)	04 Shoulder / Lap Belt	4 Deployed Both Front/Side	4 Unknown	4 Not Applicable	4 Unknown	4 Impairing
05 Second - Middle	05 Child Safety Seat	5 Not Applicable		5 Unknown		5 Fatal Injury
06 Second - Right	06 MC Helmet Used	6 Unknown				6 Unknown
07 Third - Left	07 Use Unknown					
08 Third - Middle	08 Non Used					
09 Third - Right	09 Helmet Used					
10 Sleeper Section Of Cab	10 Protective Pack					
11 Enclosed Cargo Area	11 Reflective Clothing					
12 Unenclosed Cargo Area	12 Lighting					
13 Trailing Unit	13 Other					
14 Exterior	14 Unknown					
15 Other						
16 Non-Motorist						
17 Unknown						

HSV7001

Top Copy - OOPS Bottom Copy - Agency

Supplement #
X If Yes

Unit Numbers 01 02 Non-Motorist Location A B 01 Marked Crosswalk At Intersection 02 Intersection No Crosswalk 03 Non-Intersection Crosswalk 04 Driveway Access Crosswalk 05 In Roadway 06 Not In Roadway 07 Median (But Not Shoulder) 08 Island 09 Shoulder 10 Sidewalk 11 Within 10 Feet Of Roadway (Not Shoulder, Median, Sidewalk, Island) 12 Beyond 10 Feet Of Roadway (Within Trafficway) 13 Outside Trafficway 14 Shared Use Paths Or Trails 15 Unknown	Damage Area Front Back Most Damaged Area 01 03 01 None 02 Center Front 03 Right Front 04 Right Side 05 Right Rear 06 Rear Center 07 Left Rear 08 Left Side 09 Left Front 10 Top And Windows 11 Undercarriage 12 Lead / Trailer 13 Total (All Areas) 14 Other 15 Unknown	Pre-Crash Actions 01 11 Motorist 01 Movement Essentially Straight Ahead 02 Backing 03 Changing Lanes 04 Overtaking/Passing 05 Turning Right 06 Turning Left 07 Making U-Turn 08 Entering Traffic Lane 09 Leaving Traffic Lane 10 Parked 11 Stopping/Stopped In Traffic 12 Driveway 13 Other 14 Unknown Non-Motorist 15 Entering/Crossing In Specified Location 16 Walking, Running, Jogging, Playing, Cycling 17 Working 18 Pushing Vehicle 19 Approaching/Leaving Vehicle 20 Playing/Working On Vehicle 21 Standing 22 Other 23 Unknown	Sequence Of Events A B 20 16 2 2 3 3 4 4 Non-Collision 01 Overtaken/Followed 02 First Collision 03 Immersion 04 Jackknife 05 Cargo/Equipment, Late/Shift 06 Equipment Failure 07 Separation Of Units 08 Ran Off Road Right 09 Ran Off Road Left 10 Cross Median/Centerline 11 Downhill Runaway 12 Other Non-Collision Collision w/ Person, Vehicle, Or Object Not Fixed 13 Pedestrian 14 Pedalcyclist 15 Pedalcycle 16 Railway Vehicle 17 Animal - Farm 18 Animal - Deer 19 Animal - Other 20 Motor Vehicle In Transport 21 Parked Motor Vehicle 22 Work Zone Maintenance Equipment 23 Other Movable Object 24 Unknown Movable Object Collision With Fixed Object 25 Impact Attenuator/Crash Cushion 26 Bridge Overhead Structures 27 Bridge Pier Or Abutment 28 Bridge Pier/Post 29 Bridge Rail 30 Guardrail Face 31 Guardrail End 32 Median Barrier 33 Highway Traffic Sign Post 34 Overhead Sign Post 35 Light/Luminaire Support 36 Utility Pole 37 Other Post, Pole Or Support 38 Culvert 39 Curb 40 Ditch 41 Embankment 42 Fence 43 Mailbox 44 Tree 45 Other Fixed Object 46 Work Zone Maintenance Equipment 47 Unknown Fixed Object 48 Other 49 Unknown	Posted Speed A B 55 Traffic Control 01 07 01 No controls 02 Stop Sign 03 Yield Sign 04 Traffic Signal 05 Traffic Signs 06 School Zone 07 Railroad Crossbucks 08 Railroad Flashers 09 Railroad Gates 10 Construction Barricade 11 Police Officer 12 Pavement Markings 13 Crosswalk Markings 14 Walk/Don't Walk Signal 15 Traffic Control Device Inoperative, Missing, Obscured 16 Other	Drug Test Status 1 8 1 None 2 Test Refused 3 Test Given, Contaminated Sample/Unusable 4 Test Given, Results Known 5 Test Given, Results Unknown 6 Unknown Drug Test Type 1 8 1 None 2 Blood 3 Urine 4 Other Drug Test 1&2 Result 1 2 1 2 1 None 2 Marijuana 3 Cocaine 4 Opiates 5 Amphetamines 6 PCP 7 Other 8 Unknown At Time Of Reporting
Type Of Unit 29 07 Material 01 Sub-Compact 02 Compact 03 Mid Size 04 Full Size 05 Minivan 06 Sport Utility Vehicle 07 Pickup 08 Panel/Van 09 Single Unit Truck 10 Single Unit Truck, 3+ Axles 11 Truck/Trailer 12 Truck/Tractor (Bobcat) 13 Tractor/Semi-Trailer 14 Tractor/Double Short 15 Tractor/Double Long 16 Fifth Wheel Or Converter Dolly 17 Tractor/Triples 18 Motorcycle 19 Motorized Bicycle 20 School Bus 21 Church Bus 22 Public Bus 23 Other Bus 24 Police Vehicle 25 Fire Truck 26 Ambulance/Rescue 27 Taxi 28 Motor Home 29 Train 30 Farm Vehicle 31 Farm Equipment 32 Snowmobile 33 Construction Equipment 34 All Others Non-Motorist 35 Animal W/Rider 36 Animal W/Supply 37 Bicycle 38 Pedestrian 39 Pedalcyclist 40 Skater 41 Other-Non Motorist 42 Unknown	Contributing Circumstances 01 15 Material 01 None 02 Failure To Yield 03 Ran Red Light, Or Stop Sign 04 Exceeded Speed Limit 05 Unsafe Speed 06 Improper Turn 07 Left Hand Center 08 Followed Too Closely/ACDA 09 Improper Lane Change 10 Improper Passing 11 Improper Start From Parked Position 12 Stopped or Parked Illegally 13 Operating Vehicle In Erratic, Reckless, Careless, Negligent or Aggressive Manner 14 Swerving to Avoid (Due to Wind, Slippery Surface, Vehicle, Object, Non-Motorist In Roadway, Etc.) 15 Failure To Control 16 Vision Obstruction 17 Driver Inattention 18 Fatigue/Asleep 19 Operating Defective Equipment 20 Load Shifting/Falling/Spilling 21 Other Improper Action 22 Unknown Non-Motorist 23 None 24 Improper Crossing 25 Daring 26 Lying And/Or Illegally In Roadway 27 Failure To Yield Right Of Way 28 Not Visible (Dark Clothing) 29 Inattentive 30 Failure To Obey Traffic Signs, Signals, Or Officer 31 Wrong Side Of The Road 32 Other 33 Unknown	Point Of Impact 09 03 01 None 02 Center Front 03 Right Front 04 Right Side 05 Right Rear 06 Rear Center 07 Left Rear 08 Left Side 09 Left Front 10 Top And Windows 11 Undercarriage 12 Lead/Trailer 13 Total (All Areas) 14 Other 15 Unknown	First Harmful Event 1 1 Of the Sequence of Events - Which one is the First Harmful Event (1-4) Most Harmful Event 1 1 Of the Sequence of Events - Which one is the Most Harmful event (1-4) Speed Detected 1 1 1 Stated 2 Estimated Speed Speed 48 5	Direction From To 34 21 1 North 2 South 3 East 4 West 5 Northeast 6 Northwest 7 Southeast 8 Southwest 9 Unknown Condition 1 8 1 Apparently Normal 2 Physical Impairment 3 Emotional 4 Stress 5 Fall Asleep, Fainted, Fatigued, Etc. 6 Under The Influence Of Medication/Drug/Alcohol 7 Other 8 Unknown Alcohol/Drug Suspected 1 8 1 None 2 Yes-Alcohol Suspected 3 Yes-HBD Not Impaired 4 Yes-Drugs Suspected 5 Yes-Alcohol / Drugs Suspected 6 Unknown Alcohol Test Status 1 8 1 None 2 Test Refused 3 Test Given, Contaminated Sample/Unusable 4 Test Given, Results Known 5 Test Given, Results Unknown 6 Unknown Alcohol Test Type 1 8 1 None 2 Blood 3 Urine 4 Breath 5 Other Alcohol Test Result 1 8	Type Of Intersection 11 01 Not An Intersection 02 Four-Way Intersection 03 T-Intersection 04 Y-Intersection 05 Traffic Circle/Roundabout 06 Five-Point, Or More 07 On Ramp 08 Off Ramp 09 Crossover 10 Delivery/Access 11 Railway Grade Crossing 12 Shared-Use Paths Or Trails 13 Unknown Occurrence 1 8 1 On Roadway 2 On Shoulder 3 In Median 4 On Roadside 5 On Bare 6 Outside Trafficway 7 Unknown Road Condition 1 8 1 Straight Level 2 Straight Grade 3 Curve Level 4 Curve Grade Road Conditions 04 03 01 Dry 02 Wet 03 Snow 04 Ice 05 Sand, Mud, Oil, Gravel 06 Water (Standing, Moving) 07 Slush 08 Debris 09 Rut, Hole, Bump, Uneven Pavement 10 Other 11 Unknown ** Secondary Road Condition ONLY
In Emergency Response A B 1 No 2 Yes 3 Unknown Damage Scale 1 4 1 None 2 Non-Functional Damage 3 Functional Damage 4 Dismal Damage 5 Severe 6 Unknown	Striking Vehicle: Overtake/Underpass 1 7 1 No Underpass Or Overpass 2 Underpass, Compartment Intrusion 3 Underpass, No Compartment Intrusion 4 Underpass, Compartment Intrusion Unknown 5 Overpass, Motor Vehicle In Transport 6 Overpass, Other Vehicle 7 Unknown	Vehicle Defect Code Only If "18" Selected Above A B 01 Turn Signals 02 Head Lamps 03 Tail Lamps 04 Brakes 05 Steering 06 Tire Blowout 07 Worn Or Slack Tire 08 Trailer Equipment Defective 09 Motor Trouble 10 Disabled From Prior Crash 11 Other Defects	Supplement Y/N Local Report # 80-09-036		

Narrative

UNIT NUMBER ONE WAS TRAVELING WEST ON THE RAILROAD TRACKS. UNIT NUMBER TWO WAS TRAVELING NORTH ON ADAMS ROAD. THE DRIVER OF UNIT NUMBER TWO APPROACHED THE RAILROAD CROSSING AND HIS VEHICLE STARTED SLIDING ON THE ICE. THE DRIVER OF UNIT NUMBER TWO COULD NOT GET HIS VEHICLE STOPPED IN TIME AND SLID INTO THE PATH OF UNIT NUMBER ONE.

Manner Of Collision or Impact

6

- 1 Not Collision Between Two Vehicles in Transport
- 2 Rear-end
- 3 Head-on
- 4 Rear-To-Rear
- 5 Backing
- 6 Angle
- 7 Sideswipe, Same Direction
- 8 Sideswipe, Opposite Direction
- 9 Unknown

School Bus Related

1

- 1 No
- 2 Yes, Directly Involved
- 3 Yes, Indirectly Involved
- 4 Unknown

Work Zone Related

1

- 1 No
- 2 Yes
- 3 Unknown

Type of Work Zone

1

- 1 Lane Closure
- 2 Lane Shift/Crossover
- 3 Work On Shoulder Or Median
- 4 Interchange/Moving Work
- 5 Other

Location Of Crash In

1

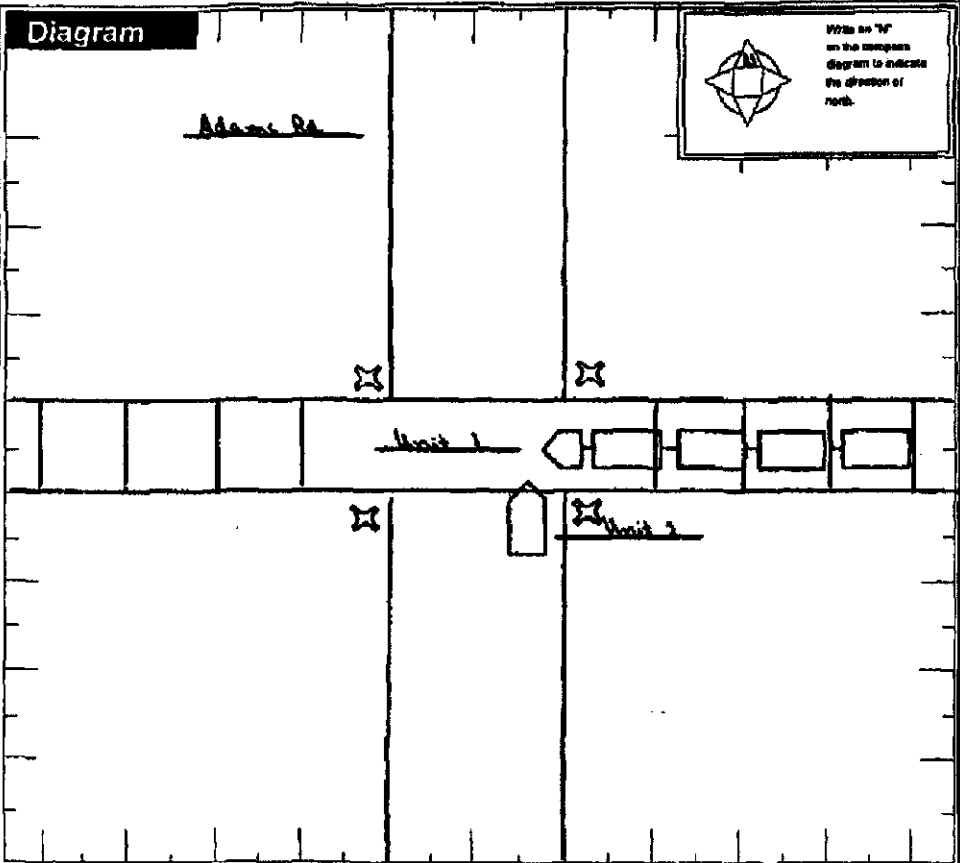
- 1 Before First Work Zone Warning Sign
- 2 Advanced Warning Area
- 3 Transition Area
- 4 Activity Area

Workers Present

1

- 1 No
- 2 Yes
- 3 Unknown

Diagram



Weather

02

- 01 Clear
- 02 Cloudy
- 03 Fog, Smog, Smoke
- 04 Rain
- 05 Snow, Hail (Freezing Rain Drizzle)
- 06 Snow
- 07 Severe Crosswinds
- 08 Blowing Sand, Silt, Dirt, Snow
- 09 Other
- 10 Unknown

Light Conditions

1

- 1 Daylight
- 2 Dawn
- 3 Dusk
- 4 Dark - Lighted Roadway
- 5 Dark - Not Lighted
- 6 Dark - Unknown Lighting
- 7 Other
- 8 Other
- 9 Unknown

Truck/Bus

Unit #

1

The Crash INVOLVED one or more of the following:

- A truck (motor vehicle) with a GVWR more than 10,000 pounds; or
- A truck (motor vehicle) with a hazardous materials placard; or
- A bus designed for at least 8 persons, including driver.

Company (From Shipping Papers)

Address (Street, City, St, Zip Code)

A
N
D

The crash RESULTED in one or more of the following:

- A fatality; or
- An injury requiring transportation for immediate medical treatment; or
- At least one vehicle was towed due to disabling damage or required towing assistance before proceeding under its own power.

Company Phone

US DOT

ICC MC

PUCO

Trailer LP St.

Trailer LP Year

Trailer LP #

Placed #

Cts.

Cargo Body Type

- 01 Not Applicable
- 02 Bus (8-15 Including Driver)
- 03 Van/Enclosed Box
- 04 Great/Chassis/Travel
- 05 Pole
- 06 Cargo Tank
- 07 Flatbed
- 08 Dump
- 09 Concrete Mixer
- 10 Auto Transporter
- 11 Garbage/Refuse
- 12 Other
- 13 Unknown

Weight (GVWR)

- 1 Less Than 10,000
- 2 10,001 - 20,000
- 3 More Than 20,000

CDL Class

- 1 Class A
- 2 Class B
- 3 Class C
- 4 Class M
- 5 Class D

Hazardous Materials Placard

- 1 No
- 2 Yes
- 3 Unknown

Hazardous Materials Released

- 1 No
- 2 Yes
- 3 Not Applicable
- 4 Unknown

Police Action

Date Crash Reported

01172009

Time Rec Call

0909

Dispatch

0909

Arrived

0917

Cleared

1117

Other

60

Total M/Vs

188

Officer's Name *

ANSPACH, STEVEN

Radio # *

824

Checked By

Buren

Date Report Filed *

01172009

Report Taken By

- 1 Police Agency
- 2 Motorist

Report Taken At

- 1 Scene
- 2 Station
- 3 Other

Supplement *

Y/N Yes

Local Report # *

80-09-036



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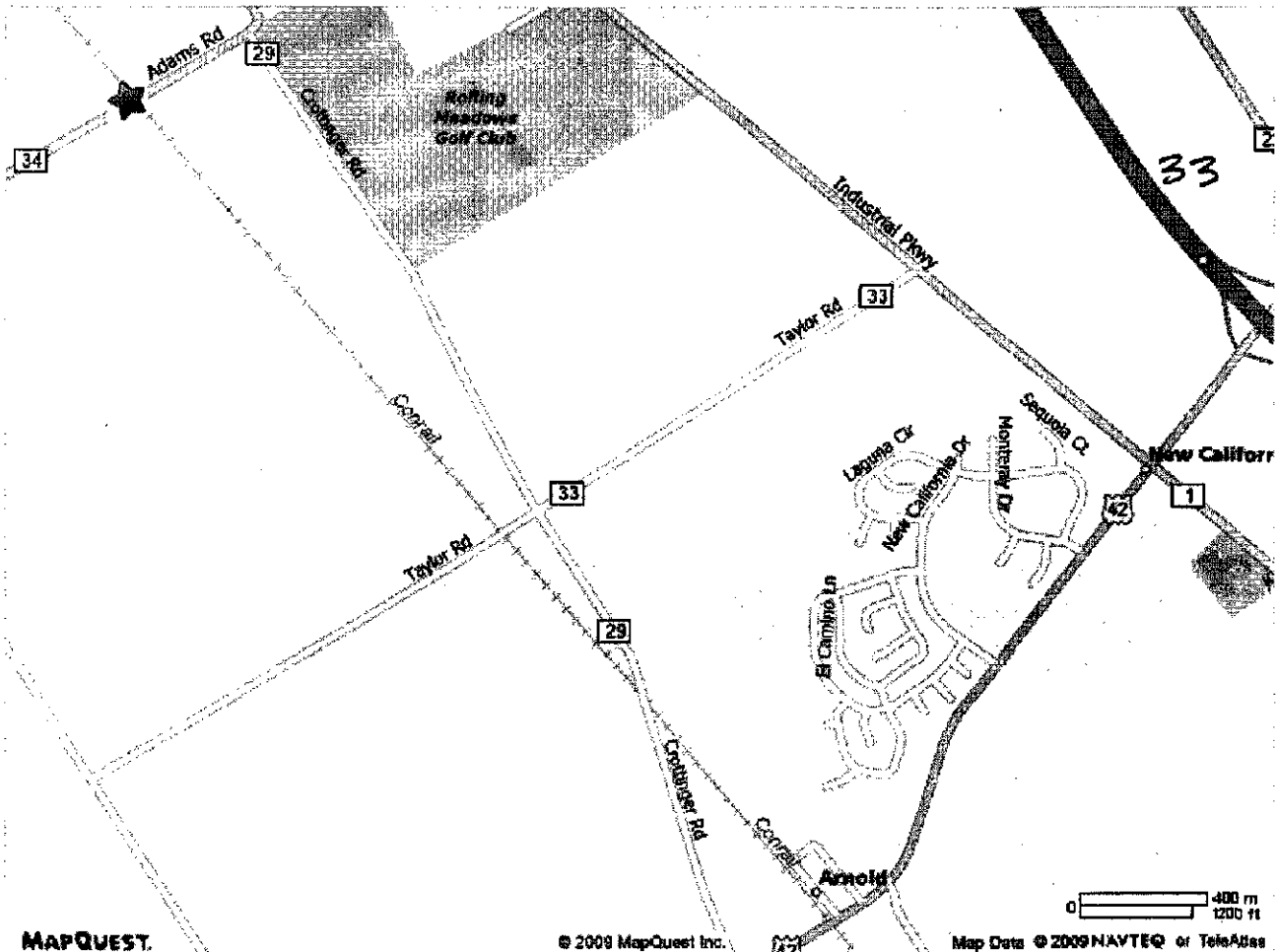
Gas Prices

★ Latitude: 40.1684914
Longitude: -83.2800321

UNION, CSX
ADAMS RD/CR 34
513-297 B



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33 TO 42
TO CROTCHER TO
ADAMS RD



Diagnostic Review Team Survey

Date: 7/23/09 1030 AM

Location Data			
Street or Road Name: <u>SHORT RD</u>			
Route/Road Number (i.e. Twp., Co., SR or US) <u>TR 132</u> (include SLM if State or US route)		AAR-DOT No.: <u>155-2725</u>	
County: <u>AUGLAIZE</u>	Township: <u>PUSHETA</u>	City: (In or Near) <u>WAPAKONETA</u>	
Railroad Name: <u>CSX</u>	Railroad Division: <u>LOUISVILLE</u>	Branch/Line Name:	
Nearest RR Timetable Station: <u>WAPAKONETA</u>		RR Milepost: <u>BE 115.77</u>	

On-Site Review Team			
(Include: Name - Organization - Phone Number)			
1.	<u>GEORGE MARTIN</u>	<u>PUCO</u>	<u>614-752-9107</u>
2.	<u>TIM PERKINS</u>	<u>ORDC</u>	<u>614-644-0284</u>
3.	<u>JAY FISHER</u>	<u>Pusheta Township</u>	<u>419 738-4590</u>
4.	<u>Jim Schaub</u>	<u>Pusheta Township</u>	<u>419-738-7252</u>
5.	<u>John Reed</u>	<u>Pusheta Township</u>	<u>419 738-8542</u>
6.	<u>Dwight J. Schroeder</u>	<u>CSX</u>	<u>419-615-8436</u>
7.			
8.	<u>ADD COM TO PART OF RECORD (WAPAKONETA)</u>		
9.			
10.			

Existing Traffic Control Devices			
Type of Warning Devices	Installed?		Quantity/Comments
Advance Warning Signs	☒ Yes	☐ No	2 + ACTIVE XING SIGNS
'Stop' Signs	☐ Yes	☒ No	
'Stop Ahead' Signs	☐ Yes	☒ No	
Pavement Markings	☒ Yes	☐ No	1 WEST OF TRACKS
Crossbucks	☒ Yes	☐ No	2 BUCKEYE
Number of Tracks Signs	☒ Yes	☐ No	2
Inventory Tags	☒ Yes	☐ No	2
Interconnected Highway Traffic Signal	☐ Yes	☒ No	
Mast-Mounted Flashing Lights	☐ Yes	☒ No	
Cantilever Flashing Lights	☐ Yes	☒ No	Number: Length:
Side Lights	☐ Yes	☒ No	
Automatic Gates	☐ Yes	☒ No	Number: Length:
Bells	☐ Yes	☒ No	
Sidewalk Gate Arms	☐ Yes	☒ No	
'No Turn' Signs	☐ Yes	☒ No	
Illumination	☐ Yes	☒ No	
Is crossing flagged by train crew?	☐ Yes	☒ No	
Other	☐ Yes	☐ No	

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

	Initial Information (from database)	Revised
Number & dates of crashes in previous 5 years	1 - 1/15/09	
Hazard Ranking	103	Date Run: 6/30/09

Railroad Data

Railroad Characteristics	Initial Information (from database)	Revised
Total trains per day	20	
< 1 per day		
Day thru trains	8	
Night thru trains	11	
Daytime switching movements	1	
Nighttime switching movements	0	
Total number of tracks	2	
Number of main tracks	2	
Number of other tracks		
Maximum train speed	50	
Typical train speed		
Amtrak	NO	

If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table 1) ☒ Yes ☐ NoIf multiple tracks, can two trains occupy crossing at the same time? ☒ Yes ☐ NoCan one train block the motorists' view of another train at crossing? ☒ Yes (Explain below) ☐ No DOUBLE TRACKAre there other track(s) crossing this same roadway within 100 ft of this crossing? ☐ Yes ☒ No

If yes, Crossing DOT # (if different) _____

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

Roadway DataLocal Highway Authority:
(Who maintains this roadway?)

PUSHETA TOWNSHIP

Roadway Characteristics	Initial Information (from database)	Revised
Average daily traffic	292 - 2009	
Highway paved	☒ Yes ☐ No	☒ Yes ☐ No
Roadway Surface: ☒ Blacktop ☐ Gravel ☐ Concrete ☐ Other _____		
Roadway width: 18 ft.		
Number of highway lanes	2	2
Urban or Rural?	RURAL	SAME
Vehicle Speed: 55 MPH		

School Bus Operation: ☐ No ☒ Yes _____ AmountHazardous Materials Trucks: ☐ No ☐ Yes _____ AmountShoulders: ☒ No ☐ YesIs the shoulder surfaced? ☒ No ☐ YesIs there existing guardrail along roadway in crossing vicinity? ☒ No ☐ YesIs stopping site distance adequate? (See Table 2) ☒ Yes ☐ No If no, deficient approach(es) SB ON CR 25AMOTORIST DOESN'T HAVE
A STRAIGHT AHEAD VIEW
OF 570 FEET

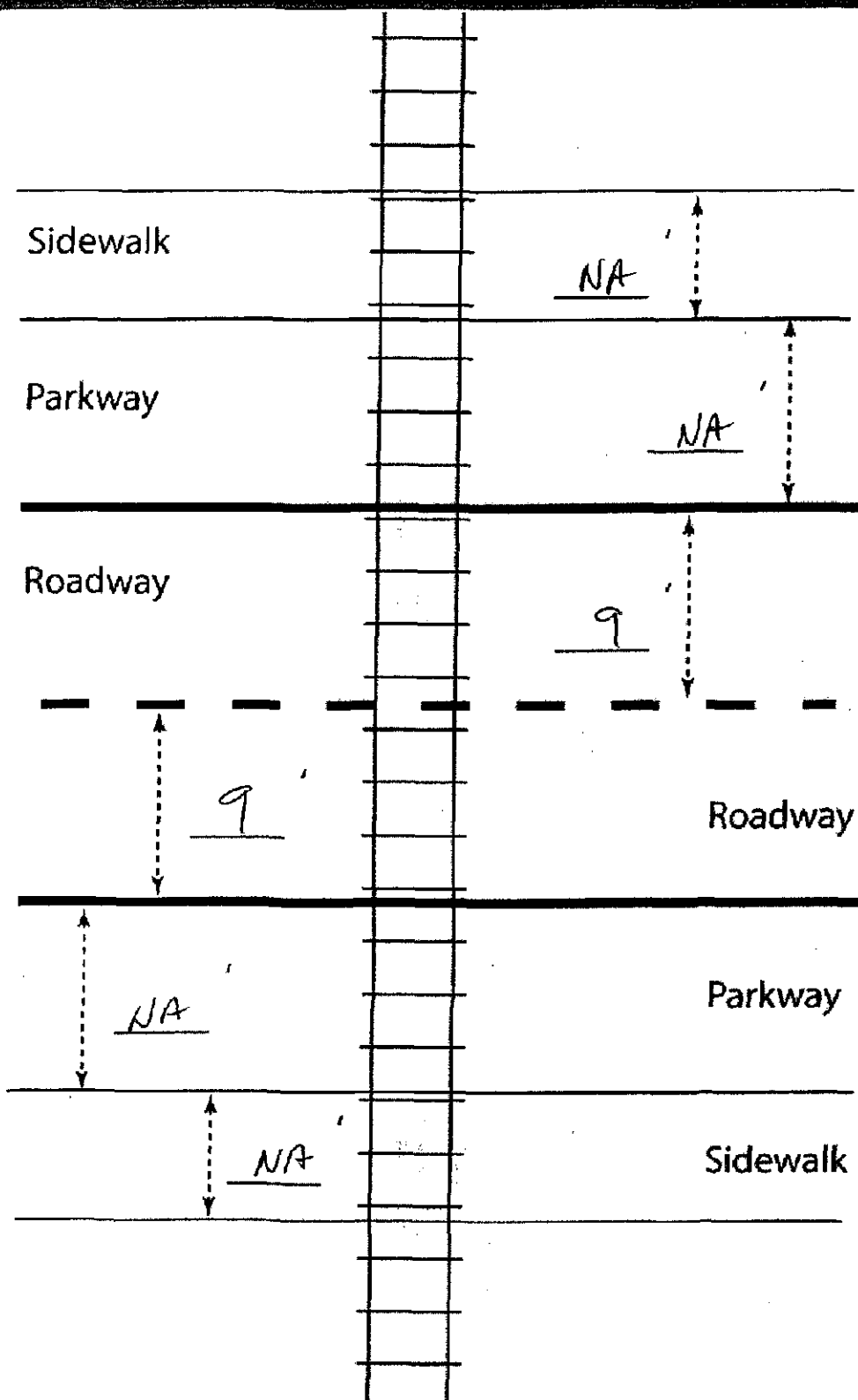
Quadrant _____ Curb and Gutter: ☐ Functional (Curb height = 4" or more) ☐ Non-functional (Curb height = Less than 4") ☒ None	Quadrant _____ Curb and Gutter: ☐ Functional (Curb height = 4" or more) ☐ Non-functional (Curb height = Less than 4") ☒ None
Pedestrians: ☒ No ☐ Yes	
Is sidewalk present? ☒ No ☐ Yes	
Is there a nearby intersection that could cause queuing over the crossing? ☒ No ☐ Yes If yes, Distance <u>NOT ENOUGH TRAFFIC VOLUME FOR QUEUING (CA 25A)</u>	
Is this intersection signalized? ☒ No ☐ Yes	
Are the signals currently interconnected with the existing crossing warning devices? ☒ No ☐ Yes	
Is it the consensus of the Diagnostic Review Team that this is a potential closure project? ☒ No ☐ Yes Explain reasons:	

Type of Development	
☒ Open Space ☒ Industrial ☒ Residential	☐ Institutional ☒ Commercial Location of nearby schools: <u>WITHIN 2-3 MILES</u>

Utility Information	
Is commercial power available? ☐ No ☒ Yes	
Utility Provider (Company Name) <u>DP&L</u>	Phone Number _____
Nearest Available Power Source <u>WITHIN ONE SIXTEENTH OF MILE</u>	
What other utilities are present? <u>UNKNOWN</u>	
Is there potential utility conflict(s) ☐ Yes ☐ No ☒ Unknown	

Diagnostic Team Recommendations	
	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

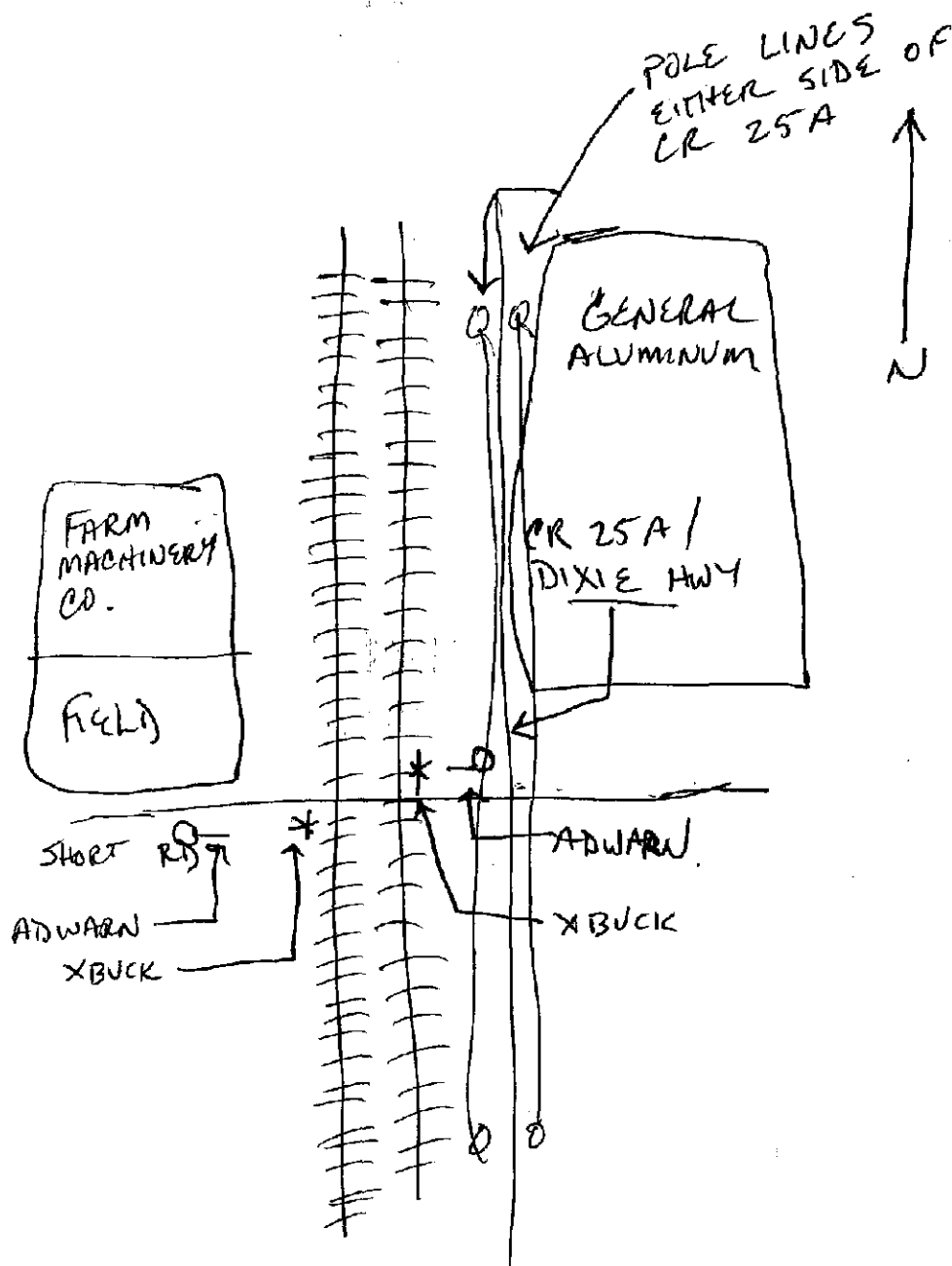


Show North
Direction

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

Measurements by GM

Field Sketch



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

Sketch by: GM

TABLE 1

Clearing Sight Distances

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

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

Notes:

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

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

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

Table 2

Stopping Sight Distances

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

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

Notes:

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

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

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



Traffic Crash Report

Local Report # 06-0039-06	Crash Severity Injury	Private Property N	Hit/Skip Not Hit/Skip	Photos Taken Y	NCIC # OHP06
Reporting Agency OHIO STATE HIGHWAY P	# Units 2	Unit Error 1	Date and Time of Crash 1/15/2009 5:09:00 PM		
Day of Week THU	City Village Township Township	Name (of City, Village or Township) PUSHETA	County # 6	Latitude 40 32 39.36	Longitude 84 11 33.62
Crash Occurred On Prefix SHORT			Type Loc Named Street		
Alt / Reference Dist Reference W			Ref Point Intersection 2 Streets		

Type of Intersection Railway Grade Crossing	Occurrence On Roadway	Road Contour Straight Grade	Road Conditions Primary Ice Secondary Unknown	** Secondary Road Conditions ONLY
--	--------------------------	--------------------------------	---	-----------------------------------

Police Action					
Date and Time Crash Reported 1/15/2009 5:09:00 PM	Dispatch 1/15/2009 5:09:00 PM	Arrived 1/15/2009 5:17:00 PM	Cleared 1/15/2009 6:39:00 PM	Other 60	Total Minutes 150
Officer's Name* KEETON, MICHAEL	Badge #* 0252	Checked By DOWEATHINGT ON	Date Report Filed* 1/16/2009 12:00:00 AM		
Report Taken By Police Agency	Report Taken At Scene				

Manner of Collision or Impact Angle	Diagram 	
School Bus Related No		Work Zone Related No
Weather Clear		
Type of Work Zone		Workers Present
Location of Crash in Work Zone		
Light Conditions Primary Daylight Secondary Unknown		

Narrative UNIT #1 WAS WESTBOUND ON SHORT RD. UNIT #2 WAS SOUTHBOUND CSX TRAIN. UNIT #1 FAILED TO YIELD TO UNIT #2, SLID ONTO TRACKS, AND WAS STRUCK BY UNIT #2.
--

Traffic Crash Report

Unit # 1	Owner First KATHY	Owner Middle	Owner Last SAMMETINGER	LP State OH	LP # CVQ7774
Owner Address 17007 FRYBURG		Owner City WAPAKONETA	Owner State OH	Owner Zip 45895	Owner Phone # 4197383894
Year 2002	Make CHEV	Model UNK	Color	VIN 1GNT13S122226851	
Insurance Company OHIO MUTUAL	In Emergency Response Unknown	Speed Detected Stated	Speed 0	Posted Speed 55	
Non-Motorist Location UnKnown	Action Struck	Towing Service NELSONS	Damage Scale Disabling Damage	Direction East	
Type of Unit Sport Utility Vehicle	Point of Impact Right Front	Most Damaged Area Right Front	Vehicle Defect		
Pre-Crash Actions Slowing/Stopped in Traffic	Striking Vehicle O/U Unknown	Contributing Circumstances Failure to Yield	First Harmful Event 1	Most Harmful Event 1	
Traffic Control Railroad Crossbucks	Sequence of Events 1 Motor Vehicle in Transport	Sequence of Events 2 Unknown	Sequence of Events 3 Unknown	Sequence of Events 4 Unknown	
Company (From Shipping Papers)	Company Phone	US DOT	ICC MC	PUCO	
Address		City	State	Zip	
Trailer LP St.		Trailer LP Year	Trailer LP #	Placard #	# DIA.
Cargo Body Type Not Applicable	CDL Class	Weight (GVWR)	Haz Material Placard Unknown	Haz Material Release Not Applicable	

Unit # 1	First Kathy	Middle	Last Sammetinger	Type Driver
Address 17007 FRYBURG		City WAPAKONETA	State OH	Zip 45895
Date of Birth 02/26/1956	Age 52	Sex F	Home Phone # 4197383894	Work Phone #
DL State OH	DL # RS554285	Offense Charged 4511.62	Injured Taken By EMS	Transported By WAPAKONETA EMS
Seating Position Front Left (MC Driver)	Ejection Not Ejected	Offense Description DRIVER'S DUTIES RELA	Air Bag Not Deployed	Citation # Y588572
Condition Apparently Normal	Trapped Not Trapped	Safety Equipment Shoulder Lap/Belt	Injuries Non-Incapacitating	Air Bag Switch Not Present
Alcohol Test Status None	Alcohol/Drug Suspected None	Alcohol Test Type None	Alcohol Test Result	
Drug Test Status None	Drug Test Type None	Drug Test Result 1 None	Drug Test Result 2 None	



Traffic Crash Report

Unit # 2	Owner First	Owner Middle	Owner Last	LP State	LP #
			CSX	NS	
	Owner Address	Owner City	Owner State	Owner Zip	Owner Phone #
	500 WATER ST	JACKSONVILLE	FL	32202	4192228927
	Year	Make	Model	Color	VIN
	1990	UNK	UNK		
	Insurance Company	In Emergency Response	Speed Detected	Speed	Posted Speed
	SELF INSURED	Unknown	Stated	25	
	Non-Motorist Location	Action	Towing Service	Damage Scale	Direction
	UnKnown	Striking		Non Functional Damage	North
	Type of Unit	Point of Impact	Most Damaged Area	Vehicle Defect	
	Train	Left Front	Left Front		
	Pre-Crash Actions	Striking Vehicle O/U	Contributing Circumstances	First Harmful Event	Most Harmful Event
	Movements Essentially Straight Ahead	No Underride or Override	None	1	1
	Traffic Control	Sequence of Events 1	Sequence of Events 2	Sequence of Events 3	Sequence of Events 4
	No Controls	Motor Vehicle In Transport	Unknown	Unknown	Unknown
	Company (From Shipping Papers)	Company Phone	US DOT	ICC MC	PUCO
	Address	City	State	Zip	
	Trailer LP St.	Trailer LP Year	Trailer LP #	Placard #	# DIA.
	Cargo Body Type	CDL Class	Weight (GVWR)	Haz Material Placard	Haz Material Release
	Not Applicable			Unknown	Not Applicable

Unit # 2	First	Middle	Last	Type
			CSX TRAIN DRIVER	Driver
	Address	City	State	Zip
	401 EAST ROBB AVE	LIMA	OH	45801
	Date of Birth	Age	Sex	Home Phone #
	#Error		M	4192290891
	DL State	DL #	Offense Charged	Injured Taken By
				Unknown
	Seating Position	Ejection	Offense Description	Air Bag
	Other	Not Ejected		Not Applicable
	Condition	Trapped	Safety Equipment	Injuries
	Apparently Normal	Not Trapped	Use Unknown	No Injury
	Alcohol Test Status	Alcohol/Drug Suspected	Alcohol Test Type	Alcohol Test Result
	None	None	None	
	Drug Test Status	Drug Test Type	Drug Test Result 1	Drug Test Result 2
	None	None	None	None

Unit # 2	First	Middle	Last	Type
			CSX EMPLOYEE	Occupant
	Address	City	State	Zip
	401 EAST ROBB AVE	LIMA	OH	45801

Date of Birth	Age	Sex	Home Phone #	Work Phone #
#Error		M	4192290891	
DL State	DL #	Offense Charged	Injured Taken By	Transported By
			Unknown	
Seating Position	Ejection	Offense Description	Air Bag	Citation #
Unknown	Not Ejected		Not Applicable	
Condition	Trapped	Safety Equipment	Injuries	Air Bag Switch
Unknown	Not Trapped	Use Unknown	No Injury	Not Present
Alcohol Test Status	Alcohol/Drug Suspected	Alcohol Test Type	Alcohol Test Result	
Unknown	Unknown	None		
Drug Test Status	Drug Test Type	Drug Test Result 1	Drug Test Result 2	
Unknown	None	Unknown at Time of Reporting	Unknown at Time of Reporting	



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SHORT RD/TR132

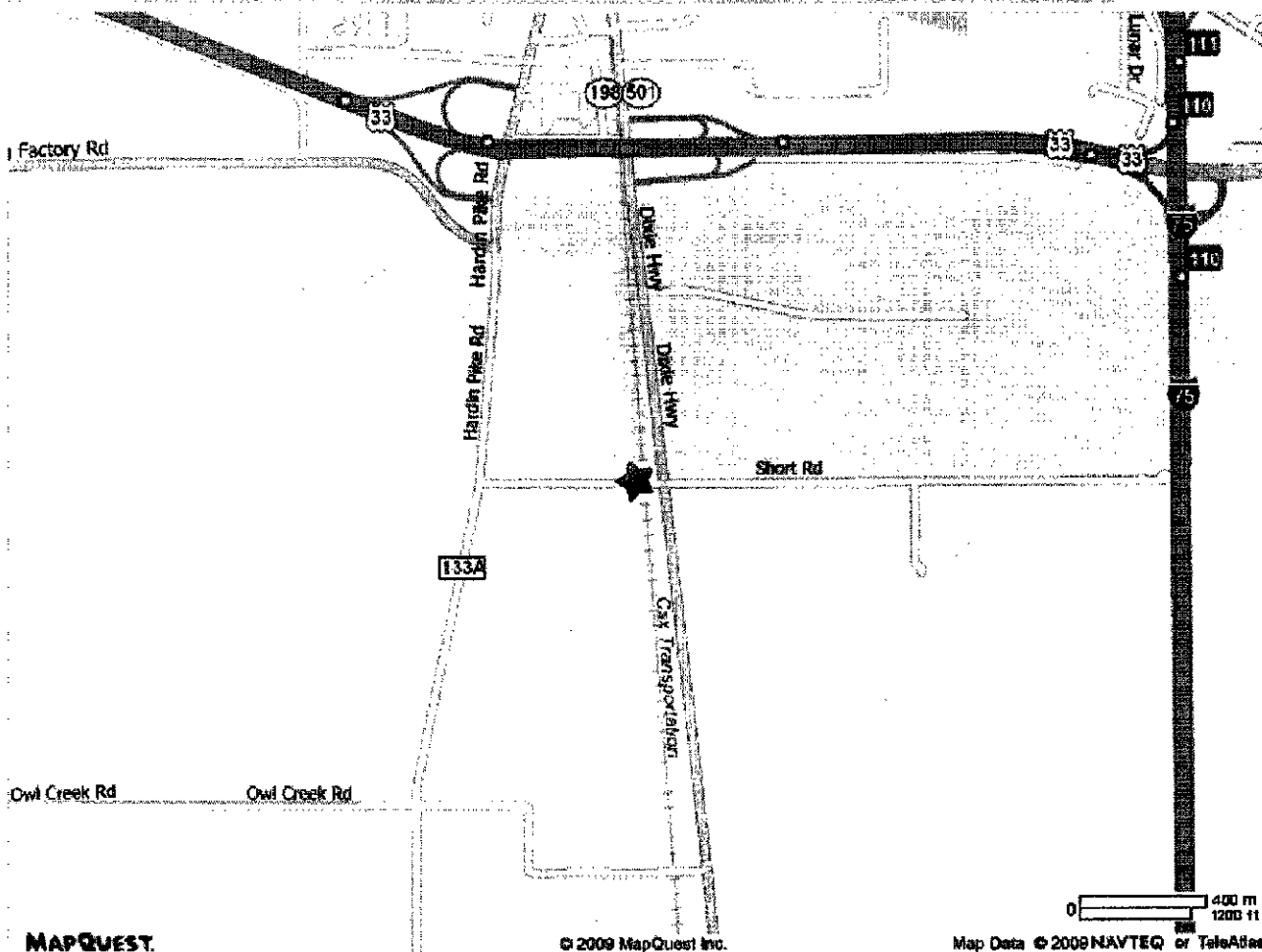
Maps Directions Yellow Pages Gas Prices

★ Latitude: 40.5442434
Longitude: -84.1928802

155-2725



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33 W TO DIXIE HWY



Diagnostic Review Team Survey

Date: 7/28/09 1030 AM

Location Data			
Street or Road Name: S. FIRST STREET			
Route/Road Number (i.e. Twp., Co., SR or US)		(include SLM if State or US route)	
AAR-DOT No.: 152-421 F			
County: BUTLER	Township: MADISON	City (In or Near): TRENTON	
Railroad Name: CSX	Railroad Division: LOUISVILLE	Branch/Line Name:	
Nearest RR Timetable Station: TRENTON		RR Milepost: BE 33.76	

On-Site Review Team		
(Include: Name - Organization - Phone Number)		
1.	GEORGE MARTIN	PUCO 614-752-9107
2.	BRAD BAKER	P.W. City Trenton 513-678-7110
3.	Dwight Schroeder	CSX 419-615-8436
4.	TIM PERKINS	ORDC 614-644-0284
5.		
6.		
7.		
8.		
9.		
10.		

Existing Traffic Control Devices		
Type of Warning Devices	Installed?	Quantity/Comments
Advance Warning Signs	☒ Yes ☐ No	2
'Stop' Signs	☐ Yes ☒ No	
'Stop Ahead' Signs	☐ Yes ☒ No	
Pavement Markings	☒ Yes ☐ No	2
Crossbucks	☒ Yes ☐ No	2
Number of Tracks Signs	☐ Yes ☒ No	
Inventory Tags	☒ Yes ☐ No	2
Interconnected Highway Traffic Signal	☐ Yes ☒ No	
Mast-Mounted Flashing Lights	☒ Yes ☐ No	2 PAIRS + SIDE LIGHTS EAST
Cantilever Flashing Lights	☐ Yes ☒ No	Number: Length:
Side Lights	☒ Yes ☐ No	1 PAIR FACING BALTIMORE ST.
Automatic Gates	☐ Yes ☒ No	Number: Length:
Bells	☐ Yes ☒ No	
Sidewalk Gate Arms	☐ Yes ☒ No	
'No Turn' Signs	☐ Yes ☒ No	
Illumination	☒ Yes ☐ No	1 O.H. AT CROSSING
Is crossing flagged by train crew?	☐ Yes ☒ No	
Other	☒ Yes ☐ No	CROSSING HUMPED - SIGN FOR NORTH BOUND TRAFFIC 1 STATES LOW BOYS TRACKS IMPASSABLE FOR LOW-BOYS.

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

	Initial Information (from database)	Revised
Number & dates of crashes in previous 5 years	1 - 2/25/09	
Hazard Ranking 141	Date Run: 6/30/09	

Railroad Data

Railroad Characteristics	Initial Information (from database)	Revised
Total trains per day	26	
< 1 per day		
Day thru trains	10	
Night thru trains	16	
Daytime switching movements	0	
Nighttime switching movements	0	
Total number of tracks	1	
Number of main tracks	1	
Number of other tracks	0	
Maximum train speed	50	
Typical train speed		
Amtrak	NO	

If non-gated crossing, is clearing sight distance adequate in all quadrants? (See Table 1) ☒ Yes ☐ No ~~(1000)~~ (1200 FT)

If multiple tracks, can two trains occupy crossing at the same time? ☐ Yes ☒ No

Can one train block the motorists' view of another train at crossing? ☐ Yes (Explain below) ☒ No N/A

Are there other track(s) crossing this same roadway within 100 ft of this crossing? ☐ Yes ☒ No

If yes, Crossing DOT # (if different) _____

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

Roadway Data

Local Highway Authority:
(Who maintains this roadway?)

CITY OF TRENTON

Roadway Characteristics	Initial Information (from database)	Revised
Average daily traffic	2858 NO DATE	3000 2009
Highway paved	☒ Yes ☐ No	☒ Yes ☐ No
Roadway Surface: ☒ Blacktop ☐ Gravel ☐ Concrete ☐ Other _____		
Roadway width: 30 ft.		
Number of highway lanes	2	2
Urban or Rural?	URBAN	URBAN
Vehicle Speed: 25 MPH		
School Bus Operation: ☐ No ☒ Yes 12 Amount		
Hazardous Materials Trucks: ☐ No ☒ Yes _____ Amount		FUEL TRUCKS & FARM SUPPLIES
Shoulders: ☒ No ☐ Yes		
Is the shoulder surfaced? ☒ No ☐ Yes		
Is there existing guardrail along roadway in crossing vicinity? ☒ No ☐ Yes		
Is stopping site distance adequate? (See Table 2) ☒ Yes ☐ No If no, deficient approach(es) _____		

(140 FT)

Quadrant _____ Curb and Gutter: ☐ Functional (Curb height = 4" or more) ☐ Non-functional (Curb height = Less than 4") ☒ None	Quadrant _____ Curb and Gutter: ☐ Functional (Curb height = 4" or more) ☐ Non-functional (Curb height = Less than 4") ☒ None
---	---

Pedestrians: ☐ No ☒ Yes
 Is sidewalk present? ☒ No ☐ Yes NOT AT CROSSING
 Is there a nearby intersection that could cause queuing over the crossing? ☐ No ☒ Yes S. FIRST & BALTIMORE
 If yes,
 Distance APPROXIMATELY 20 FT. AND S. FIRST & RIVERSIDE, APPROX 30 FT.
 Is this intersection signalized? ☒ No ☐ Yes
 Are the signals currently interconnected with the existing crossing warning devices? ☒ No ☐ Yes
 Is it the consensus of the Diagnostic Review Team that this is a potential closure project? ☒ No ☐ Yes
 Explain reasons:

Type of Development

☐ Open Space ☐ Industrial ☒ Residential	☐ Institutional ☒ Commercial	Location of nearby schools: <u>2 WITHIN 3/4 MILE (EITHER SIDE OF TRACKS)</u>
---	--	---

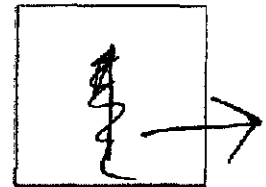
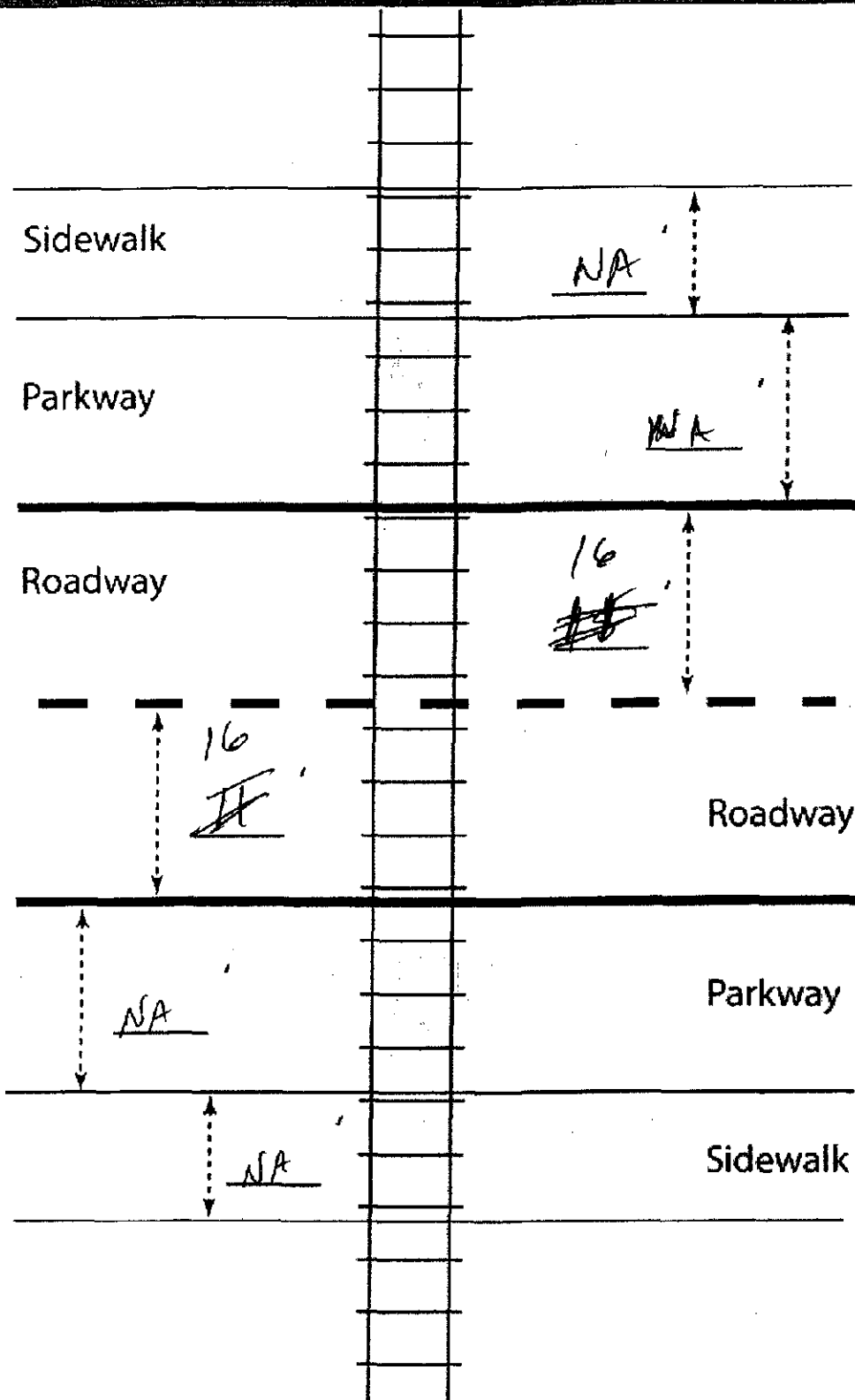
Utility Information

Is commercial power available? ☐ No ☒ Yes
 Utility Provider (Company Name) DUKE ENERGY Phone Number _____
 Nearest Available Power Source AT CROSSING
 What other utilities are present? WATER, OIL PHONE, ELECTRIC, GAS
 Is there potential utility conflict(s) ☐ Yes ☐ No ☒ Unknown - SHOULDN'T BE WITH CROSSING.

Diagnostic Team Recommendations

	Quadrants Needed
☒ Install/upgrade active devices	
☐ Automatic Flashing Lights (AFLS)	
☐ AFLS / Cants	
☒ AFLS / Gates	<u>NW & SE</u>
☐ AFLS / Gates / Cants	
☐ Upgrade circuitry	
☐ Sidelights	
☐ Guardrail Needed	
☐ Install/Replace curb	
☐ Other (define)	
Comments:	
☐ Install/upgrade traffic signal preemption	
☐ No improvements needed	
☒ Other (define)	<u>CURB NEEDED - ELIGIBLE PROJECT EXPENSE - CURB WOULD NEED TO BE 6 INCHES IN HEIGHT.</u>

Field Dimensions

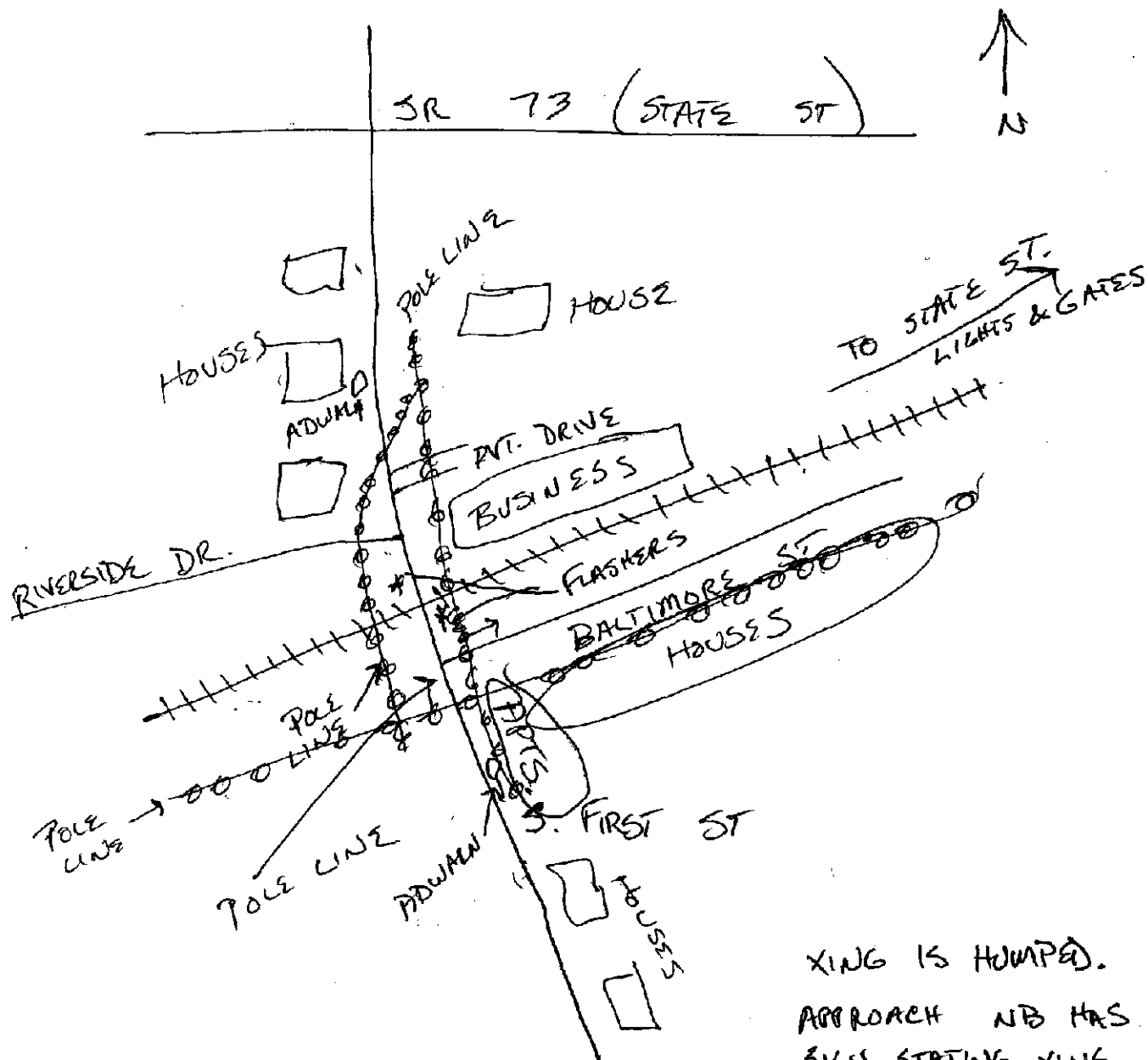


Show North
Direction

Crossing Angle ☐ 0-29° ☐ 30-59° ☒ 60-90° Measured In SE Quadrant?

Measurements by: Cam

Field Sketch



XING IS HUMPED.
APPROACH NB HAS
SIGN STATING XING
IS IMPASSABLE FOR LOW-BOY
TRAILERS.

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

Sketch by: GM

TABLE 1

Clearing Sight Distances

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

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

Notes:

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

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

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

Table 2

Stopping Sight Distances

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

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

Notes:

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

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

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

OH10 TRAFFIC CRASH REPORT

09-0381

Crash Severity
2 1 Fetal 3 PDO
2 Injury 4 UnknownPrivate
PropertyHR / SR
1 Not HR / Sup
2 Solved
3 UnsolvedPhotos
Taken
X

00909

Reporting Agency
Trenton Police Department02 01 00 = Animal
99 = Unknown

02252009

0808 WED X

Name (Of City, Village or Township)
Trenton

09

Latitude Longitude

CRASH OCCURRED ON

Prefix Crash Location
S FIRST

ST

Type Loc
21 Named Street 3 Numbered Route
2 Numbered Street

LOCAL INFORMATION

BALTIMORE AVE

AT REFERENCE

Dist Reference City Prefix Reference

BALTIMORE AVE

Ref Point
2D1 State Line
D2 Intersection 2 Streets
D3 County LineD4 House Number
D5 Township Boundary
D6 Mile Post
D7 Corporation LimitD8 Place Name W/O Reference
D9 Driveway
D10 Street or Route W/O Reference

A 01 01 Name (Last, First, Middle)

Disher Michael Alan

Address (Street, City, State, Zip Code)

6328 Sycamore Rd

Trenton Oh 45067

03141991 17 M

DL State DL #

OH TE952464

LP State LP #

OH EKY1282

Injured
Taken By2 1 None 4 Other
2 EMS 5 Unknown
3 Police

Transported By

Trenton Squad 51

Injured Taken To

Atrium

Owner Name (If same, write "SAME")

DISHER MATTHEW A

Address (Street, City, State, Zip Code)

6328 SYCAMORE RD

TRENTON OH 45067-0000

Year Make
1998 FORDModel
ESCColor
REDInsurance Company
State Farm InsuranceTowing Service
MitchellsOwner Phone #
(513) 988-1780

Offense Charged

4511.62

Offense Description

Railroad Crossing Violation

29417

B 02 02 Name (Last, First, Middle)

Address (Street, City, State, Zip Code)

St

DL State DL #

LP State LP #

Injured
Taken By1 None 4 Other
2 EMS 5 Unknown
3 Police

Transported By

Injured Taken To

Owner Name (If same, write "SAME")

Csx (central information)

Address (Street, City, State, Zip Code)

500 Water (jacksonville, Fl) ST

jacksonville FL

Year Make
Model Color Insurance Company

Towing Service

Owner Phone #
(800) 232-0144

Offense Charged

Offense Description

C 02 Name (Last, First, Middle)

Address (Street, City, State, Zip Code)

16 Judith St
Dry Ridge Ky 41035

Home Phone #

01141950 59 M

Injured Taken By
1 Name 4 Other
2 EMS 5 Unknown
3 Police

Transported By

Injured Taken To

D Name (Last, First, Middle)

Address (Street, City, State, Zip Code)

Home Phone #

Injured Taken By
1 Name 4 Other
2 EMS 5 Unknown
3 Police

Transported By

Injured Taken To

01 Seating Position
01 Front - Left (MC Driver)
02 Front - Middle
03 Front - Right
04 Second - Left (MC Pass)
05 Second - Middle
06 Second - Right
07 Third - Left
08 Third - Middle
09 Third - Right
10 Sleeper Section Of Cab
11 Enclosed Cargo Area
12 Unenclosed Cargo Area
13 Trailing Unit
14 Exterior
15 Other
16 Non-Motorist
17 Unknown

14 Safety Equipment
01 None Used
02 Shoulder Belt Only
03 Lap Belt Only
04 Shoulder / Lap Belt
05 Child Safety Seat
06 MC Helmet Used
07 Use Unknown
08 Non-Motorist
09 Helmet Used
10 Protective Pads
11 Reflective Clothing
12 Lighting
13 Other
14 Unknown

2 Air Bag
1 Not Deployed
2 Deployed-Front
3 Deployed-Side
4 Deployed Both Front/Side
5 Not Applicable
6 Unknown

4 Air Bag Switch
1 Not Present
2 In On Position
3 In Off Position
4 Unknown

1 Ejection
1 Not Ejected
2 Totally Ejected
3 Partially Ejected
4 Not Applicable
5 Unknown

1 Trapped
1 Not Trapped
2 Ejected By Mechanical Means
3 Freed By Non-Mechanical Means
4 Unknown

3 Injuries
1 No Injury
2 Possible
3 May-Investigating
4 Incomplete
5 FPM Policy
6 Unknown

Narrative

Manner Of Collision or Impact School Bus Related

6

- 1 Not Collision Between Two Vehicles In Transport
- 2 Rear-End
- 3 Head-On
- 4 Rear-To-Rear
- 5 Backing
- 6 Angle
- 7 SideWipe, Same Direction
- 8 SideWipe, Opposite Direction
- 9 Unknown

- 1 No
- 2 Yes, Directly Involved
- 3 Yes, Indirectly Involved
- 4 Unknown

Work Zone Related

- 1 No
- 2 Yes
- 3 Unknown

Type of Work Zone

- 1 Lane Closure
- 2 Lane Shift/Crossover
- 3 Work On Shoulder Or Median
- 4 Interim/Moving Work
- 5 Other

Work Zone

- 1 Before First Work Zone Warning Sign
- 2 Advance Warning Area
- 3 Transition Area
- 4 Activity Area

Workers Present

- 1 No
- 2 Yes
- 3 Unknown

Weather

01

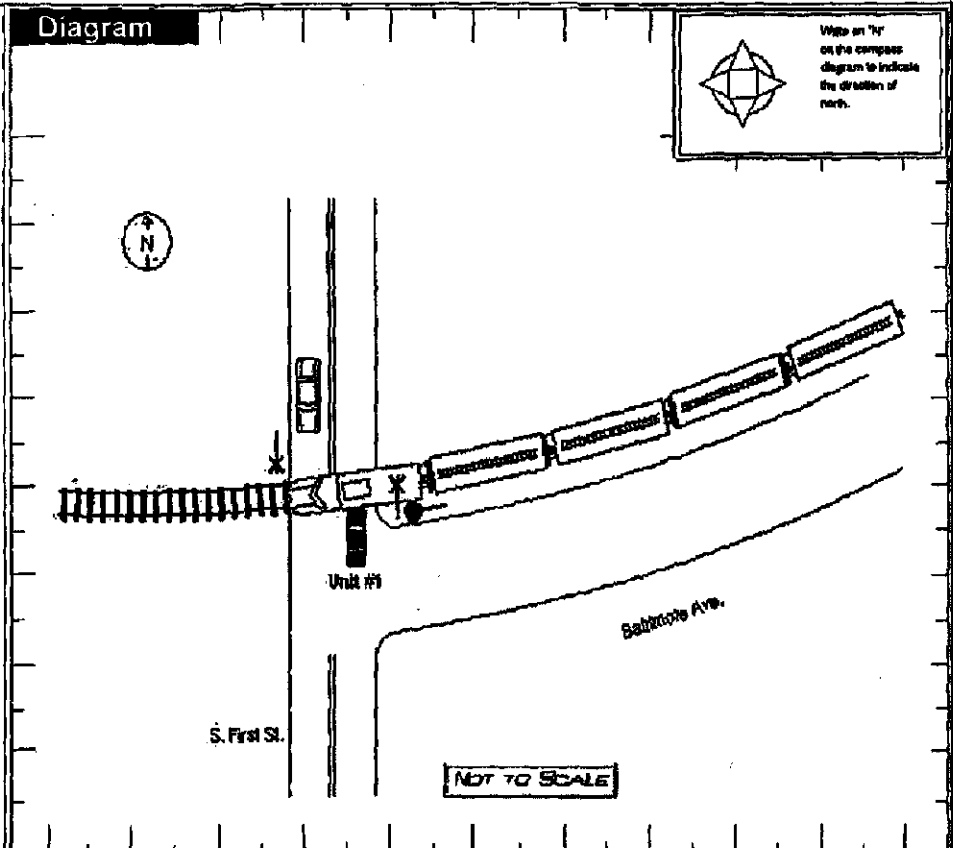
- 01 Clear
- 02 Cloudy
- 03 Fog, Smog, Smoke
- 04 Rain
- 05 Sleet, Hail (Freezing Rain Drizzle)
- 06 Snow
- 07 Severe Crosswinds
- 08 Blowing Sand, Soil, Dust, Snow
- 09 Other
- 10 Unknown

Light Conditions

1 1

- 1 Daylight
- 2 Dawn
- 3 Dusk
- 4 Dark - Lighted Roadway
- 5 Dark - Not Lighted
- 6 Dark - Unknown Lighting
- 7 Other
- 8 Other
- 9 Unknown

Diagram



Truck/Bus

The Crash INVOLVED one or more of the following:

- A truck (motor vehicle) with a GVWR more than 10,000 pounds; or
- A truck (motor vehicle) with a hazardous materials placard; or
- A bus designed for at least 8 persons, including driver.

Company (From Shipping Papers)

Address (Street, City, St, Zip Code)

AND

The crash RESULTED in one or more of the following:

- A fatality; or
- An injury requiring transportation for immediate medical treatment; or
- At least one vehicle was towed due to disabling damage or required towing assistance before proceeding under its own power.

Company Phone

US DOT

ICC MC

PLAC

Trailer LP SL

Trailer LP Year

Trailer LP #

Cargo Body Type

- 01 Not Applicable
- 02 Box (B-15) Including Driver
- 03 Van/Enclosed Box
- 04 Grains/Caps/Gravel
- 05 Pole
- 06 Cargo Tank
- 07 Flatbed
- 08 Dump
- 09 Concrete Mixer
- 10 Auto Transporter
- 11 Garbage/Refuse
- 12 Other
- 13 Unknown

Weight (GVWR)

- 1 Less/Equal 10,000
- 2 10,001 - 25,000
- 3 More Than 25,000

CDL Class

- 1 Class A
- 2 Class B
- 3 Class C
- 4 Class M
- 5 Class D

Hazardous Materials Placard

- 1 No
- 2 Yes
- 3 Unknown

Hazardous Material Released

- 1 No
- 2 Yes
- 3 Not Applicable
- 4 Unknown

Police Action

02252009 0808 0808 0809 0000 0 0

Officer's Name *

Bushong, Timothy (127)

127

Dispatched By

Date Report Filed *

02252009

Report Taken By

1

- 1 Police Agency
- 2 Motorist

Report Taken At

1

- 1 Scene
- 2 Station
- 3 Other

09-0381

Incident Record Number 4418

Reporting/Operating Railroad	CSX Transportation, Inc.	FRA 1a
RR Accident/Incident Number	57434	FRA 1b
Other Railroad Involved		FRA 2a
Other RR Accident/Incident Number		FRA 2b
Maintenance Railroad	CSX Transportation, Inc.	FRA 3a
Maint. RR Accident/Incident Number	57434	FRA 3b
Structure/USDOT and Type	152421F X - Highway Grade Crossing	FRA 4
	☒ Check for Public At-grade Railroad Crossing	FRA 12
Date and Time of Incident	2/25/2009 8:15:00 AM	FRA 5,6
Type of Incident	8 - RR Grade Crossing	
PUCO Reference Number		

Accident/Incident Location

Nearest Time Table Station	TRENTON	FRA 7
Railroad Division	LOUISVILLE	FRA 8
County	BUTLER	FRA 9
State	OHIO	FRA 10
Nearest City	TRENTON	FRA 11
Highway Name or No.	1st St	FRA 12
PUCO Line Number		
Mile Post		
Comments		

Highway User/Rail Equipment Involved

Type of Vehicle	Auto	FRA 13
Vehicle Speed (MPH)	30	FRA 14
Vehicle Direction	W - West	FRA 15
Position of Highway User	3 - Moving Over Crossing	FRA 16
Equipment Type	Train (units pulling)	FRA 17
Position of Car Unit in Train	1	FRA 18
Circumstance	2 - Rail Equipment Struck By Highway User	FRA 19

Hazardous Materials

Hazmat Involved?	4 - Neither	FRA 20a
Hazmat Released By	4 - Neither	FRA 20b
Hazmat Description		FRA 20c

Hazmat Quantity		FRA 20c
# Cars Carrying Hazmat		
# Hazmat Cars Damaged		
# Cars Releasing Hazmat		
# of People Evacuated		

Accident/Incident Cause

Primary Cause (and code)		
Secondary Cause (and code)		

Environmental Factors

Temp (F)	40	FRA 21
Visibility	2 - Day	FRA 22
Weather	1 - Clear	FRA 23

Detailed Accident Account

PUCO Inspector	
Inspection Date	

To Continue to the Next Page, Please Click on the "Next Page" Button on the Toolbar

Incident Record Number 4418

Train Information

Train Number		
Locomotive Number(s)		
Type of Train	F - Freight Train	FRA 24
Track Type	M - Main, thru	FRA 25
Track Identification	TOLEDO SUB	FRA 26
FRA Track Class	4	FRA 27
# of Locomotive Units	2	FRA 28
# of Cars	69	FRA 29
Train Speed (mph) and Measurement	42 R - Recorded	FRA 30
Time Table Direction	S - South	FRA 31
Trailing Tons		
Method of Operation		
Track/Structure Defects Noted		
Equipment Defects Noted		
Comments		

Crossing Description/Highway User

Type of Crossing Protection:	☐ Gates ☐ Wig Wags ☐ Crossbucks ☐ Flagged by Crew ☐ Cantilever FLS ☐ Traffic Signals ☐ Stop Signs ☒ Other ☒ Standard FLS ☐ Audible ☐ Watchmen ☐ None You may select a maximum of 7 choices.	FRA 32
Was Signal Operating?	1 - YES	FRA 33
Whistle Ban	2 - NO	FRA 34
Location of Warning	1 - Both Sites	FRA 35
Interconnected Signals	2 - NO	FRA 36
Illumination via Street/Special Lights	1 - YES	FRA 37
Comments		

Vehicle Damage/Casualties

Driver Age	17	FRA 38
Driver Gender	1 - MALE	FRA 39
Driver Struck by Second Train?	2 - NO	FRA 40
Driver...	3 - Did not stop	FRA 41
Driver Passed Standing Hwy. Veh.	2 - NO	FRA 42
View of Track Obscured By	8 - Not Obstructed	FRA 43
Driver Fatality	2 - NO	FRA 44

Was Driver in Vehicle?	1 - YES	FRA 45
Hwy. Vehicle Damage (\$)		FRA 47
# Injured in Hwy. Vehicle	1	FRA 46b
# Fatalities in Hwy. Vehicle	0	FRA 46b
Total People (incl. Driver) in Veh.	1	FRA 48
Comments		

Property Damage/Casualties on Train

Equipment Damage		
Track, Signal, Way, Struct. Damage		
# RR Employees Injured on Train	0	FRA 49b
# RREmployees Fatalities on Train	0	FRA 49a
Total Number of People on Train	2	FRA 50
# Passengers Injured on Train	0	FRA 52a
# Passengers Fatalities on Train	0	FRA 52b
List and Describe Derailed Cars		

Total Injuries/Fatalities

Total People, Injured	1
Total People, Fatalities	0

Miscellaneous

Accident Narrative	FRA 54

Is RR Equipment Accident/Incident Report Being Filed?	2 - NO	FRA 51
---	--------	--------

End of Incident Form



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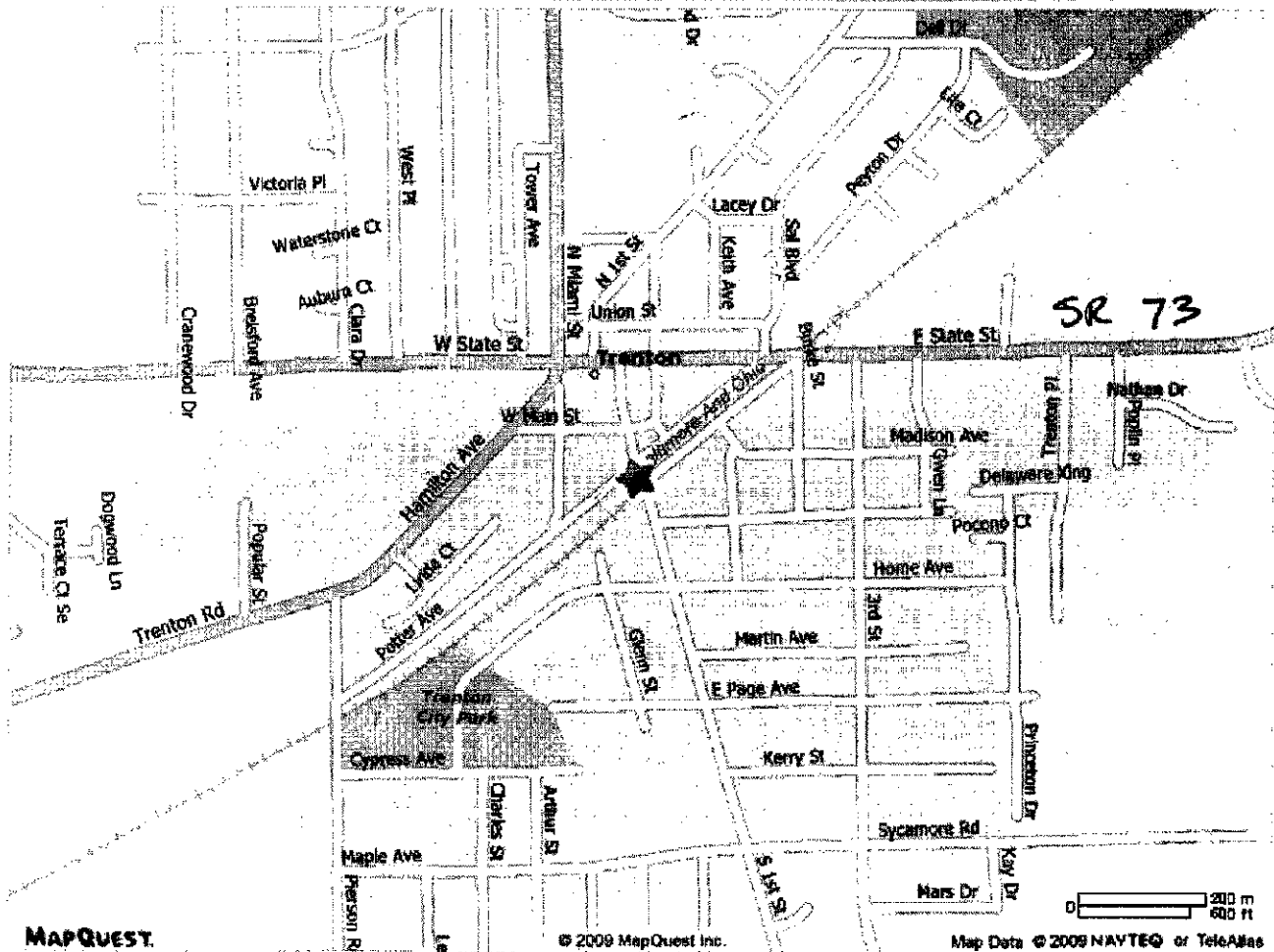
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71 S TO SR 73