RECEIVED-DOCKETING DIV

2010 DEC 13 AM 10: 40

PUCO

# Memo

To: Docketing Division

From: George Martin, Grade Crossing Planner, Rail Division

**Re:** In the matter of the authorization of the Norfolk Southern Railway to install active grade crossing warning devices in Franklin and Madison Counties

Date: December 13, 2010

The Ohio Rail Development Commission (ORDC) has authorized funding for the Norfolk Southern Railway (NS) to install new mast-mounted flashing lights and roadway gates and upgrade the circuitry at the following locations:

Franklin County

Amity Road/CR 12, near Alton, DOT# 525118S

Madison County

Plain City-Georgesville Rd/SR 142, near West Jefferson, DOT# 525120T

Gregg Rd/CR 43, near West Jefferson, DOT# 525133U

Spring Valley Rd/CR 71, near London, DOT# 525139K

Davis Rd/TR 95, Union Township, DOT# 527992P

These crossings were surveyed June 7, 2010, and were found to warrant the upgrades.

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

PUCO Case No. 10- **300**% -RR-FED In the matter of the authorization of the Norfolk Southern Railway to install active grade crossing warning devices in Franklin and Madison Counties

C: Legal Department

Please serve the following parties of record.

• Page 1 This is to certify that the images appearing are an accurate and complete reproduction of a case file document delivered in the regular course of husiness. Vechnician \_\_\_\_\_ Dute Processed **[13] 2010**  Ms Susan Kirkland Ohio Rail Development Commission 1980 W Broad St, 2<sup>nd</sup> Floor Columbus, Oh 43223

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

Mr Dean Ringle Franklin County Engineer 970 Dublin Rd Columbus, Oh 43215-1169

Mr David Brand Madison County Engineer 825 US RT 42 NE London, Oh 43140-8512

Mr Gary Bogenrife Union Township Trustees 4090 Glade Run Rd London, Oh 43140

American Electric Power	Ohio Edison
1 Riverside Plaza	1910 W Market St
Columbus, Oh 43215	Akron, Oh 44313

#### OHIO RAIL DEVELOPMENT COMMISSION INTEROFFICE COMMUNICATION

TO: George Martin, Railroad Division, RUCO

FROM: Joseph N. Reinhardt, Grade Crossing Specialist

SUBJECT: Grade Crossing Warning Project

DATE: December 10, 2010

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

#### Project List

#### Norfolk Southern:

Franklin County, Amity Road, DOT 5251188 Madison County, State Route 142-11.83, DOT 525120T PLAIN CITY- GEORGESVILLER Madison County, Gregg Road, DOT 5251330 Madison County, Spring Valley Road, DOT 525139K CR 71 Madison County, Jard Road, DOT 527992P TR 95 DAVIS

Thank you for your assistance with these matters.

JR:jnr

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



			Date: (4	172010
Location Data	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Street or Road Name: Ajwity Rock	) criz			
Route/Road Number (i.e. Twp., Co., SR or US) ( b. (include SLM	if State or US route)	12-	AAR-DOT No.	5251185
County: FRA Township:		City: (In or Near)	Alter	<u></u>
Railroad NS	Railroad Dizar	brn	B	iame Cincy
Nearest RR Timetable Station: Spring fi	·····		RR Milepost	148.99
On-Site Review Team				na ana ang ang ang ang ang ang ang ang a
(Include: Name-Organization - Phone Number)				
1 Che Kelledt	SRDC	614-644	- 0291	
2 The R	NSC	404-529	9-1234	
3. GEORGE FAMEIN	PUCA	614-75	2-9107	
4. Mill Meeks F	250	614 46Z	6158	
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6				
7		<u></u>		<u></u>
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Existing Traffic Control Devices			· · · · · · · · · · · · · · · · · · ·	
Existing Traffic Control Devices Type of Warning Devices	Insta	lled?	Q	antity/Comments
Type of Warning Devices	insta Tes	No	Q	antity/Comments
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Type of Warning Devices Advance Warning Signs		No	Q:	Lantity/Comments
Type of Warning Devices Advance Warning Signs 'Stop' Signs 'Stop Ahead' Signs	Yes Yes Yes Yes			Lantity/Comments
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Type of Warning Devices         Advance Warning Signs         'Stop' Signs         'Stop Ahead' Signs         Pavement Markings         Crossbucks         Number of Tracks Signs	Yes Yes Yes Yes	□ No □ No □ No □ No □ No		Lantity/Comments
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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         Side Lights         Side Lights         No Turn' Signs	Yes	No         Yoo         Yoo         No         Yoo         No         No     <	Number:	2 2 2 1 2 2 Length:
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	Init	al Information (fi	om database)	Revised	
Number & dates of crashes		<u>^</u>	UIII DALEUASCI	Nevisec	······································
in previous 5 years			·····		
Hazard Ranking	- 2	1724	Date Run: 611110		
Railroad Data		ی میں میں میں <u>میں معمل</u>			
Railroad Characteristi	i <u>cs</u>	Initial Informati	ion (from database)	Revised	
Total trains per day		16			
<   per day					
Day thru trains		6			
Night thru trains					
Daytime switching movement		2	، 		
Nighttime switching moveme					
Total number of tracks		<i>t</i>	 		
Number of main tracks Number of other tracks		d	•		
Maximum train speed		50			
Typical train speed		and the second	a second a second s		
Amerak		<u> </u>			
If non-gated crossing, is clearing s				Yes No	
If multiple tracks, can two trains of	occupy cros	ssing at the same tim	el 🖸 Tes 📋 No		
Can one train block the motorist	s' view of a	nother train at cross	ing! 🗂 Yes (Explain b	elow) 🔲 No	
Are there other track(s) crossing		oadway within 100 f	t of this crossing?	Yes []Tho	
If yes, Crossing DOT #(if diffe If yes, distance		urement between tr	ack centerlines at close	ist point along roadway)	
		surement between tr	ack centerlines at close	est point along roadway)	
If yes, distance		TRANKLIN		est point along roadway)	
lf yes, distance Rnadway Data	_ (take meas	TRANKLIN		est point along roadway) Revised	
If yes, distance Roadway Data Local Highway Authority;	_ (take meas	TRANKLIN	) COUNTY on (from database)	Revised	= 1400 (0B)
If yes, distance Roadway Data Local Highway Authority: Roadway Characteristic	_ (take meas	There Line	) COUNTY on (from database)	Revised	= 1400 (0B)
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If yes, distance Roadway Data Local Highway Authority: Roadway Characteristic Average daily offic Highway paved Roadway Surface: Blacktop	_ (take meas	1121NKLIN Initial Informatic 92 Ves No Concrete Octo	COUNTY on (from database) 6	Revised	- 1400 (03)
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Pedestrians:	[-]-Kio	T Yes				
is sidewalk preser						
			e queuing over the	crossing)	T Yes	
lf yes, Distance	<b></b>				[] / 63	
is this intersection	on signalized?	U-No	🗖 Yes			
Are the signals	currently incor	connected wi	th the existing cross	ing warning devices?	🗌 No 🛛 🗍 Yes	
ls it the consensus Explain reasons:	s of the Diagno	ostic Raview 1	feam that this is a p	ot <b>ential</b> clos <b>ure p</b> roje	* []-M6 []Y4	<u>);</u>
Type of Deve	lopment			and the second		na ang ang ang ang ang ang ang ang ang a
Gropen Space	🗋 İn	stitutional	Location of nearb	y schools:	1	
🔲 industrial	Пс	ommercial	AH	on Schools	Hillard	
Residential				<u> </u>		
Utility Inform	ation			ana ana amin'ny fisiana amin'ny fisian		
is commercial pow	ver available?	∏ No	E Tes			
Utility Provider (C	ompany Nam	•)	EP	Phone	Number	
Nearest Available	Power Source	·	Uready Active	with electric		··
What other utilitie	s are present	- Ward	Corr - Ques	E - GAS		
is th <b>ere</b> potential u	ulity conflict(	s) [] Tes		iknown		
Diagnostic Te	am Recon	nmendatio	ons			
<u></u>		······································			Quadrants Needed	
📋 Install/upgrade	active devices	5				
	Flashing Lights	s (APLS)				
AFLS /Cant	The second s					······································
AFLS / Gat						
AFLS / Gate						
Upgrade ci	rcuitry			: 		
Sidelights	la sela el					
and the second					·	
Other (defi						
A CONTRACTOR OF THE OWNER		······				λ
New Len	s & Gat	<i>s</i> 982	needed with	He circu	iting upgrac	le
install/upgrade t		reemption			·······	
No improveme	nts needed					
Other (define) Field Dimension	Provide and a second					

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			Date: 6	7-2010
Location Data	an a			
Street or Road Name: SR	142-11.83	PLAIN (	2174-6201	GESVILLE R)
ReuroRoad Number		42-	AAD DOTAL-	525120T
County: MAD Town	hip:	City: (in or Near)	Nest Jeff	erson
Railroad NS	Railroad Division: Deru	rborn	Bran Nam	dvilline Cincy
	Jetterson		RR Milepost	151.75
Ou-Site Review Team		and in <b>ARE</b> . The manufacture is a second se		
(Include: Name - Organization - Phone Ni	angber)			
1. Loe Ke	bad ORDC	619-6	440291	
2. Nul Pan	NSC	404-5	579-1235	<i>i</i>
3. GEORGE AND	FRAN PUCO		152-9107	
4				
4				<u> </u>
<i>5.</i>			<u></u>	
б				
7				
8.				
D				
9				
Existing Traffic Control Dev	rices			
Type of Warning Devices	instal	led?	Quar	tity/Comments
Advance Warning Signs	-Yes	No		)
'Stop' Signs	Yes	- <b>*</b> \o		
'Stop Ahead' Signs	Yes	4-110		
Pavement Markings	¥es	No	2	
Crossbucks		No No		4
Number of Tracks Signs	<u>Yes</u>	E-No		
Inventory Tags	y Tes	<u>No</u>		<u>}</u>
Interconnected Highway Traffic Signal				2-
Mast-Mounted Flashing Lights	Tes			
Candlever Flashing Lights	Yes	<b>1</b> +10	Number:	Length:
Side Lights	Yes Yes		Number:	Z- Length:
Automatic Gates Belis			Numper:	Z Length:
Bens Sidewalk Gate Arms				
'No Turn' Signs		TNo		·······
Illumination		[1]-Ng		
Is crossing flagged by train crew?				
Other	Yes			
Safety Dara (Obrain crash re				
Salery Palar (Distanceash re	ports, il passible, pire		the second second	

LAUOSICIA CETACIONAL LAUOSICIA CETACIONAL

	Initia	Information (f	rom database)		Revised	
Number & dates of crashes in previous 5 years		.0	( )			
Hazard Ranking		15	Date Run: 6710		····	
Railroad Data	· · · · · · · · · · · · · · · · · · ·					
Railroad Characteris	tics	Initial Informat	ion (from database)		Revised	<u></u>
Total trains per day		16				
< i per day						
Day thru trains		þ				
Night thru trains		10				
Daytime switching movemen		<u> </u>		·		
Nighttime switching movem	ents	Ð				
Total number of tracks		ONE		<u> </u>		
Number of main tracks	<u> </u>	ON		<u> </u>		
Number of other tracks				╉┈┈╍╼╾		
Maximum train speed	·	55 50		┾╼━╾┈┉		<b></b>
Typical train speed Amtrak	<del>}</del> -	NONCE		<u> </u>		
If non-gated crossing, is clearing					 _ No	<b>.</b>
		whee regio of cross	ins? [7] Yes /Evoluin by	പറസ) 🚺	1450	
If multiple tracks, can two trains Can one train block the motoria Are there other track(s) crossin If yes, Crossing DOT #(if dif	tts' view of and ig this same roo ferenc)	adway within 100	ft of this crossing?	Yes 🛃 🗖		
Can one train block the motoria Are there other track(s) crossin If yes, Crossing DOT #(if dif If yes, distance	tts' view of and ig this same roo ferenc)	adway within 100	ft of this crossing?	Yes 🛃 🗖		
Can one train block the motoria Are there other track(s) crossin If yes, Crossing DOT #(if dif If yes, distance Roadway Data	tts' view of and ig this same roo ferenc)	adway within 100 rement between t	ft of this crossing?	Yes 🛃 🗖		
Can one train block the motoria Are there other track(s) crossin If yes, Crossing DOT #(if dif If yes, distance	tes' view of and ng this same ro ferenc) (take measu	adway within 100 rement between t Stutte c	ft of this crossing?	Yes 🛃 🗖		
Can one train block the motoria Are there other track(s) crossin If yes, Crossing DOT #(if dif If yes, distance Roadway Data Local Highway Authority: Roadway Characterist	tes' view of and ng this same ro ferenc) (take measu	adway within 100 rement between t Stute c Initial Informati	ft of this crossing?	Yes 🛃 🗖	g roadway)	
Can one train block the motoria Are there other track(s) crossin If yes, Crossing DOT #(if dif If yes, distance	tics	adway within 100 rement between t Stutte c	ft of this crossing?	Yes 🛃 🗖	g roadway)	
Can one train block the motoria Are there other track(s) crossin If yes, Crossing DOT #(if dif If yes, distance Roadway Data Local Highway Authority: Roadway Characterist Average daily traffic	tics	adway within 100 rement between t State c Initial Informati 7470 Fres IN	ft of this crossing?	Yes Print alon	g roadway) Revised	
Can one train block the motoria Are there other track(s) crossin If yes, Crossing DOT #(if dif If yes, distance Roadway Data Local Highway Authority: Roadway Characterist Average daily traffic Highway paved Roadway Surface: Placktop	tics	adway within 100 rement between t State c Initial Informati 7470 Fres IN	ft of this crossing?	Yes Print alon	g roadway) Revised	
Can one train block the motoria Are there other track(s) crossin If yes, Crossing DOT #(if dif If yes, distance	tics	adway within 100 rement between t State c Initial Informati 7470 Fres IN	ft of this crossing?	Yes Print alon	g roadway) Revised	
Can one train block the motoria Are there other track(s) crossin If yes, Crossing DOT #(if dif If yes, distance	tics	adway within 100 rement between c State c Initial Informati 7470 PYes IN Koncrete Oct	ft of this crossing?	Yes Print alon	g roadway) Revised	
Can one train block the motoria Are there other track(s) crossin If yes, Crossing DOT #(if dif If yes, distance	tics	adway within 100 rement between t State c Initial Informati 7470 Yes N Koncrete Ot	ft of this crossing?	Yes Print alon	g roadway) Revised	
Can one train block the motoria Are there other track(s) crossin If yes, Crossing DOT #(if dif- If yes, distance	tics	adway within 100 rement between t State c Initial Informati 7470 Pres IN Concrete Oct Two Ruck	ft of this crossing?	Yes Print alon	g roadway) Revised	
Can one train block the motorial Are there other track(s) crossin If yes, Crossing DOT #(if dif- If yes, distance	tics	adway within 100 rement between t State c Initial Informati 7470 2Yes IN Koncrete Ot Ruck Amount	ft of this crossing?	Yes Print alon	g roadway) Revised	
Can one train block the motoria Are there other track(s) crossin If yes, Crossing DOT #(if dif- If yes, distance	tics	adway within 100 rement between t State c Initial Informati 7470 Pres IN Concrete Oct Two Ruck	ft of this crossing?	Yes Print alon	g roadway) Revised	
Can one train block the motorial Are there other track(s) crossin If yes, Crossing DOT #(if dif- If yes, distance	tics	adway within 100 rement between t State c Initial Informati 7470 Pres IN Concrete Ot Ruck Amount YesAmo	ft of this crossing?	Yes Print alon	g roadway) Revised	
Can one train block the motoria Are there other track(s) crossin If yes, Crossing DOT #(if dif- If yes, distance	tics  Gravel  Kics   adway within 100 rement between c State c Initial Information 1970	ft of this crossing?	Yes Print alon	g roadway) Revised		
Can one train block the motoris Are there other track(s) crossin If yes, Crossing DOT #(if dif If yes, distance	tics  Gravel  Gravel  Yes  Value  alue  Value  Value  Value  Value  Value  Value  Value  Value  Value  Value  Value  Value  Value  Value Value  Value  Value Val	adway within 100 rement between t State c Initial Information 9470 Pres N Koncrete Other Ruck Amount Yes Amount Ssing vicinity!	ft of this crossing?	Yes Hont alon	g roadway) Revised	
Can one train block the motorial Are there other track(s) crossin If yes, Crossing DOT #(if dif- If yes, distance	tics  Gravel  Gravel  Kics  Control  Gravel  Kics  Control  Gravel  Kics  Control  Gravel  Kics  Control  Kics  Ki	adway within 100 rement between c State c Initial Information 1970 Pres IN Koncrete Oct 200 Ruich Ssing vicinity? In 1970 200 200 200 200 200 200 200 2	ft of this crossing?	Yes I to No.	g roadway) Revised	
Can one train block the motoris Are there other track(s) crossin If yes, Crossing DOT #(if dif If yes, distance	tics	adway within 100 rement between c State c Initial Information 1970 Pres IN Koncrete Oct 200 Ruich Ssing vicinity? In 1970 200 200 200 200 200 200 200 2	ft of this crossing?	Yes I via	Revised	
Can one train block the motorial Are there other track(s) crossin If yes, Crossing DOT #(if dif- If yes, distance	tics	adway within 100 rement between c State c Initial Information 1970 Pres IN Koncrete Oct 200 Ruich Ssing vicinity? In 1970 200 200 200 200 200 200 200 2	ft of this crossing?	Yes I via	Revised	
Can one train block the motoris Are there other track(s) crossin If yes, Crossing DOT #(if dif If yes, distance	tics  Gravel  Gravel  Fres No  Yes  Cake Table 2  Cake Tab	adway within 100 rement between to State c Initial Information 1470 Pes N Concrete Oth Ruich Pes Amount Yes Amount Yes Amount	ft of this crossing?	Yes I to not alon ist point alon Yes Yes pprozch(es) Curb height = 4"	Revised	

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Pedestrians: Vo Yes	
is sidewalk present? Who Yes	
Is there a nearby intersection that could cau	ise qualing over the crossing? 140 Tes
If yes, Distance	
is this intersection signalized?	
	Yes
	with the existing crossing warning devices? TNo Yes
	Team that this is a potential closure project 440 Yes
Explain reasons:	
Type of Development	and a second br>A second secon
Open Space Institutional	Location of nearby schools;
	west Tefferson
	Martin Martin Martin
Utility Information	
Is commercial power available? 🛄 No	E Yes
Utility Provider (Company Name)	Edison Phone Number
	occy connected
	RDhene ATIT, GAS
is there potential utility conflict(s)	' 🛄 No/ 🔄 Unknown
Diagnostic Team Recommendat	
	Quadrants Needed
Triscall/upgrade active devices	
Automatic Flashing Lights (AFLS)	
17 AFLS /Cants	
AFLS / Gates	
AFLS / Gates / Cancs	
- Opgrade circuitry	
Sidelights	
Guardrail Needed	
Install/Replace curb	
Other (define)	
Comments:	
Upgrade Signal Ler	w to 12" & new gates.
Install/upgrade traffic signal preemption	
No improvements needed	
Other (define)	
Field Dimensions	

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Location Data	en ger a norther a series and a series and a series and a series and a series of the series of the series of the				2 .
Street or Road Names Corr 012 64	load, CR43	and share and the same same interaction of the			<u> </u>
Bauss Bund bloomban		+3	AAR-DOT No.:	COC1221	
Country Country Country		<u> </u>	<u>í                                    </u>	525133U	-
MAD Investige		(in or Near)		efferson	
Railroad Name: NS	Railroad Division:	earborn		Brenchline Cincy	
Nearest RR Timenable Station: West Juit			RR Milepost	157.08	
On-Site Review Team		nand a far far en far far far i en en far ster en e La ster en			ر بن م
		منسب المرداب مسيليت المسيولين			
Include: Name (Organization Phone Number)	<u>እ</u> ክ <b>የ</b> ረ	C 138 Z	44-02.	31	
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	Yes		Q	uantity/Comments	
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xisting Traffic Control Devices Type of Warning Devices dvance Warning Signs top' Signs top Ahead' Signs avement Markings rossbucks	Yes Yes Yes Yes Yes Yes	□ No □ No □ No □ No □ No	Q	uantity/Comments	
xisting Traffic Control Devices Type of Warning Devices dvance Warning Signs itop' Signs itop Ahead' Signs avement Markings rossbucks lumber of Tracks Signs wentory Tags	Yes Yes Yes Yes Yes Yes Yes Yes	□ No □ No □ No □ No □ No □ No	Q	uantity/Comments	
xisting Traffic Control Devices Type of Warning Devices dvance Warning Signs top' Signs top Ahead' Signs avement Markings rossbucks umber of Tracks Signs ventory Tags terconnected Highway Traffic Signal	Yes Yes Yes Yes Yes Yes Yes Yes	□ No □ No □ No □ No □ No □ No □ No □ No	Q	2-	
xisting Traffic Control Devices Type of Warning Devices dvance Warning Signs top' Signs top Ahead' Signs avement Markings rossbucks umber of Tracks Signs ventory Tags terconnected Highway Traffic Signal ast-Mounted Flashing Lights	Yes Yes Yes Yes Yes Yes Yes Yes	□ N° □ N°		2-	
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Xisting Frailit Control Devices         Type of Warning Devices         dvance Warning Signs         top' Signs         top Ahead' Signs         avement Markings         rossbucks         umber of Tracks Signs         ventory Tags         terconnected Highway Traffic Signal         ast-Mounted Flashing Lights         de Lights         utomatic Gates         elis         dewalk Gate Arms	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		Number:	2 2 '2 Length:	
xisting Traffic Control Devices Type of Warning Devices dvance Warning Signs top' Signs top Ahead' Signs avement Markings rossbucks lumber of Tracks Signs wentory Tags terconnected Highway Traffic Signal ast-Mounted Flashing Lights antilever Flashing Lights de Lights utomatic Gates elis dewalk Gate Arms lo Turn' Signs	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		Number:	2 2 '2 Length:	
Existing Traffic Control Devices         Type of Warning Devices         advance Warning Signs         advance Warning Signs         acop' Signs         acop' Signs         avement Markings         avement Yes         avement Yes         avement Yes         aventory Tags         automatic Gates         elis         dewalk Gate Arms	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		Number:	2 2 '2 Length:	
Avisting Frailin: Control Devices         Type of Warning Devices         Advance Warning Signs         Stop' Signs         Stop Ahead' Signs         avement Markings         Crossbucks         lumber of Tracks Signs         avement Markings         Crossbucks         lumber of Tracks Signs         avement Markings         Crossbucks         lumber of Tracks Signs         avenent Markings         Crossbucks         lumber of Tracks Signs         avenent Markings         Crossbucks         lumber of Tracks Signs         avenent Markings         Instruction         automatic Gates         ells         dewalk Gate Arms         No Turn' Signs         umination         crossing flagged by train crew?	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		Number:	2 2 '2 Length:	
8. 9. Existing Traffic Control Devices	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		Number:	2 2 '2 Length:	

	Initial Information (fi	rom database)	Revis	ed
Number & dates of crashes in previous 5 years	0			
Hazard Ranking	4056	Date Run: 6710		
Railroad Data				
Railroad Characteristics	Initial Informat	ion (from database)	Revise	ed
Total trains per day	16			
< i per day				
Day thru trains	6	) 		
Night thru trains		<u>}</u>		
Daytime switching movements		<u>}</u>		<b></b>
Nighttime switching movements				
Total number of tracks	C VA			
Number of main tracks	<u>AG</u>			
Number of other tracks				
Maximum train speed	5	<u>Q</u>		
Typical train speed		0		
Amerak	Nor	<u>0</u> E	<u> </u>	
If non-gated crossing, is clearing sight di	······································		Ves No	
If multiple tracks, can two trains occupy				
Can one train block the motorists' view		ing) 🔲 Yes (Explain be	low) CHO	
Are there other track(s) crossing this sa If yes, Crossing DOT #(if different)	ame roadway within 100 i	fc of this crossing?	res UNIO	
Are there other track(s) crossing this sa	ame roadway within 100 i	fc of this crossing?	res UNIO	
Are there other track(s) crossing this sa If yes, Crossing DOT #(if different) If yes, distance(take Roadway Data Local Highway Authority:	measurement between the MADISA OD	ft of this crossing?	res Note	۵۰۰۰۰ <u>ـــــــــــــــــــــــــــــــــ</u>
Are there other track(s) crossing this sa If yes, Crossing DOT #(if different) If yes, distance(take Roadway Data	measurement between the MADISA OD	ft of this crossing?	res Noto st point along roadway)	ď
Are there other track(s) crossing this sa If yes, Crossing DOT #(if different) If yes, distance(take Roadway Data Local Highway Authority:	MADISA OD	ft of this crossing?	res Noto st point along roadway) Revise 320	đ
Are there other track(s) crossing this sa If yes, Crossing DOT #(if different) If yes, distance(take Roadway Data Local Highway Authority: Roadway Characteristics	measurement between the MADISA OD	ft of this crossing?	res Note	đ
Are there other track(s) crossing this sa If yes, Crossing DOT #(if different) If yes, distance(take Roadway Data Local Highway Authority: Roadway Characteristics Average daily traffic Highway paved	MADISA OD	ft of this crossing?	res Noto st point along roadway) Revise 320	đ
Are there other track(s) crossing this sa If yes, Crossing DOT #(if different) If yes, distance(take Roadway Data Local Highway Authority: Roadway Characteristics Average daily traffic Highway paved Roadway Surface: Blacktop Grav	Initial Informatio	ft of this crossing?	res Noto st point along roadway) Revise 320	d
Are there other track(s) crossing this sa If yes, Crossing DOT #(if different) If yes, distance(take Roadway Data Local Highway Authority: Roadway Characteristics Average daily traffic Highway paved Roadway Surface: Blacktop Grav Roadway width:5_ft.	ame rozdway within 100 i mezsurement between to MADISAN (Doc Initial Information Defense Initial MADISAN (Doc Initial Information Defense Initial Vel I Concrete I Oth	ft of this crossing?	res Noto st point along roadway) Revise 320	đ
Are there other track(s) crossing this sa If yes, Crossing DOT #(if different) If yes, distance(take Roadway Data Local Highway Authority: Roadway Characteristics Average daily traffic Highway paved Roadway Surface: Blacktop Grai Roadway width:ft. Number of highway lanes	ame roadway within 100 i measurement between to MADISAN (DA Initial Information DATES IN No vel I Concrete Other TWO	ft of this crossing?	res Noto st point along roadway) Revise 320	đ
Are there other track(s) crossing this sa If yes, Crossing DOT #(if different) If yes, distance(take Roadway Data Local Highway Authority: Roadway Characteristics Average daily traffic Highway paved Roadway Surface: Blacktop Gra Roadway width:ft. Number of highway lanes Urban or Rural	ame rozdway within 100 i mezsurement between to MADISAN (Doc Initial Information Defense Initial MADISAN (Doc Initial Information Defense Initial Vel I Concrete I Oth	ft of this crossing?	res Noto st point along roadway) Revise 320	đ
Are there other track(s) crossing this sa If yes, Crossing DOT #(if different) If yes, distance(take Roadway Data Local Highway Authority: Roadway Characteristics Average daily traffic Highway paved Roadway Surface: Blacktop Gra Roadway width:6_ft. Number of highway lanes Urban or Rural Vehicle Speed:MPH	MADISAN CON MADISAN CON Initial Information 205 DATES IN Vel Concrete Oth Ruch	ft of this crossing?	res Noto st point along roadway) Revise 320	đ
Are there other track(s) crossing this sa If yes, Crossing DOT #(if different) If yes, distance(take Roadway Data Local Highway Authority: Roadway Characteristics Average daily traffic Highway paved Roadway Surface: Blacktop Gra Roadway width: 15_ft. Number of highway lanes Urban or Rural Vehicle Speed: 55_MPH School Bus Operation: No	AMADISA DE MADISA DE Initial Information 225 DAS DA Vel Concrete Oth Runch	ft of this crossing?	res Noto st point along roadway) Revise 320	đ
Are there other track(s) crossing this sa If yes, Crossing DOT #(if different) If yes, distance(take Roadway Data Local Highway Authority: Roadway Characteristics Average daily traffic Highway paved Roadway Surface: Blacktop Gra Roadway width:ft. Number of highway lanes Urban or Rural Vehicle Speed:MPH School Bus Operation: No	MADISAN CON MADISAN CON Initial Information 205 DATES IN Vel Concrete Oth Ruch	ft of this crossing?	res Noto st point along roadway) Revise 320	
Are there other track(s) crossing this sa If yes, Crossing DOT #(if different) If yes, distance(take Roadway Data Local Highway Authority: Roadway Characteristics Average daily traffic Highway paved Roadway Surface: Blacktop Gra Roadway width: 15_ft. Number of highway lanes Urban or Rural Vehicle Speed: 55_MPH School Bus Operation: No Hazardous Materials Trucks: No Shoulders: No	ame roadway within 100 is measurement between to MADISAN DOL Initial Information DATES IN No vel Concrete Oth Runch Mes Z Amount Intes Amount	ft of this crossing?	res Noto st point along roadway) Revise 320	٩
Are there other track(s) crossing this sa If yes, Crossing DOT #(if different) If yes, distance(take Roadway Data Local Highway Authority: Roadway Characteristics Average daily traffic Highway paved Roadway Surface: Blacktop Gras Roadway width:ft. Number of highway lanes Urban or Rural Vehicle Speed:MPH School Bus Operation:No Hazardous Materials Trucks:No Shoulders:No	ame roadway within 100 is measurement between to MADISAN OX Initial Information Vel Concrete Oth Runch Mes Amount Hes Amount	ft of this crossing?	res Noto st point along roadway) Revise 320	d
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Are there other track(s) crossing this sa If yes, Crossing DOT #(if different) If yes, distance(take Roadway Date Local Highway Authority: Roadway Characteristics Average daily traffic Highway paved Roadway Surface: Blacktop Grav Roadway width:ft. Number of highway lanes Urban or Rural Vehicle Speed: MPH School Bus Operation: No Shoulders: No Shoulders: No Shoulders: No Shoulder surfaced? No	ame roadway within 100 in measurement between to MADISAN (DA) Initial information DATES [] No vel [] Concrete [] Oth Vel [] Concrete [] Oth Run2 H Run2 H Massing vicinity? [] A Table 2) [] Yes [] I	ft of this crossing?	res Nobo st point along roadway) Revise 320 Yes No	
Are there other track(s) crossing this sa If yes, Crossing DOT #(if different) If yes, distance(take Roadway Data Local Highway Authority: Roadway Characteristics Average daily traffic Highway paved Roadway Surface: Blacktop Gra Roadway width:ft. Number of highway lanes Urban or Rural Vehicle Speed:NPH School Bus Operation:No Hazardous Materials Trucks:No Shoulders:No Shoulder surfaced?No Is the shoulder surfaced?No Is there existing guardrall along roadway Is stopping site distance adequate? (See 1)	ame roadway within 100 is measurement between to MADISAN DA Initial Information DATES INO Vel Concrete Oth Runch Madis Amount Table 2 Pres In Sutter:	ft of this crossing?	res Noto st point along roadway) Revise 220 Yes No No proacti(es)	
Are there other track(s) crossing this sa If yes, Crossing DOT #(if different) If yes, distance	ame roadway within 100 f measurement between to MADISA (DA) Initial Information DATES INFO Vel Concrete Oth Runch Two Runch Tes Amount Increasing vicinity? In Table 2) Increasing vicinity? In Sutter: Dates Increasing vicinity? In Sutter:	ft of this crossing?	res Noto st point along roadway) Revise <u>720</u> Yes No No proacti(es) Curb and Gutter:	

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Pedestrians:		
is sidewalk present!	[]Yes	
Is there a nearby intersection the If yes, Distance	rat could cause queuing over the	crossing? 🗗 📶 Yes
is this intersection signalized?	T-No Yes	
Are the signals currently inter	connected with the existing cro	ssing warning devices? 440 TYes
Is it the consensus of the Diagno Explain reasons:	ostic Review Team that this is a	potential closure project: 🗍 No 🗌 Yes
Type of Development		
P Open Space	stitutional Location of near	by schools: Kent Fuller lect Iefferson H.S.
📋 Induscrial 🛛 🖸 Co	ommercial 🛛 🔍	ect Iefferson U.S.
Kesidentia!		Grade Schools
Utility Information		
Is commercial power available?	No ZYes	
) Utility Provider (Company Name	) Onlo Edison	Phone Number
Nearest Available Power Source	Alcendy Inst	lloc
What other utilities are present?	Ther Cable	
is there potential utility conflict(s		Inknown
Diagnostic Team Recon	nmendations	n Marin Shara An ang mang mang mang mang mang mang mang
an an ann an		Quadrants Needed
Install/upgrade active devices		
Automatic Flashing Lights	(AFLS)	
AFLS / Cants		
AFLS / Gates		······································
AFLS / Gates / Cants		
Upgrade circulory		
Guardrail Needed	······································	
Install/Replace curb	<u> </u>	
Other (define)		
Comments: NIS will a	check to see i	if circuitry is constant to approved P.E.
	WARNING PRIOR	to approved T.C.
Install/upgrade traffic signal pr	eemption	
No improvements needed		
Other (define)		
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Diagnostic	Review	Team	Survey
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Location Data					
Screet or Road Name: Spring	y Valley Roc	ad certi			
Revice/Read Number	M il State or US route)	171	AAR-DOT No.	525	139K
Township:		City:	N		
MAD	Railroad	(In or Neer)	Lord	Branch/Line	
Name: NS	Division;	Dearborn		Name	Cincer
Nearest RR Lander			RR Milepost	- 160	، ነና 7
On-Site Review Team					
Include: Name - Organization - Phase Number	=				· · · · · · · · · · · · · · · · · · ·
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GEORDE MARTIN	J PUCO		752-910		
Huld Track	MAD CO		254-634		<u>,</u>
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xisting Traffic Control Device	and the second state of th				
xisting Traffic Control Devices Type of Warning Devices	Insta	alled?		Quantity/	Comments
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xisting Traffic Control Devices Type of Warning Devices dvance Warning Signs top' Signs top Ahead' Signs	Insta Tas Yes Yes	□ No □4Ko □4Ko		Quantity/( 2 2	Comments
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xisting Traffic Control Devices Type of Warning Devices dvance Warning Signs top' Signs top Ahead' Signs ivement Markings rossbucks umber of Tracks Signs ventory Tags terconnected Highway Traffic Signal ast-Mounted Flashing Lights antilever Flashing Lights	Insta Insta Yes Yes Yes Yes Yes Yes Yes	□ No □ Ko □ No □ No □ No □ No □ No, □ No, □ No,		2- 2-	Comments
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Type of Warning Devices Ivance Warning Signs top' Signs top Ahead' Signs vement Markings topsbucks umber of Tracks Signs rentory Tags terconnected Highway Traffic Signal ust-Mounted Flashing Lights intilever Flashing Lights ie Lights tomatic Gates ils	Insta Insta Yes Yes Yes Yes Yes Yes Yes Yes		Number:	2- 2-	Length:
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xisting Traffic Control Devices Type of Warning Devices dvance Warning Signs top' Signs top Ahead' Signs wement Markings rossbucks umber of Tracks Signs ventory Tags terconnected Highway Traffic Signal ast-Mounted Flashing Lights antilever Flashing Lights de Lights stomatic Gates ils lewalk Gate Arms o Turn' Signs umination	Insta Insta Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		Number:	2- 2- 2- 2- 2- 2-	Length:
xisting Traffic Control Device: Type of Warning Devices dvance Warning Signs top Signs top Ahead' Signs tvement Markings rossbucks umber of Tracks Signs ventory Tags terconnected Highway Traffic Signal	Insta Insta Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		Number:	2- 2- 2- 2- 2- 2-	Length:

UPDATED (12/2006)

97/20 BDVJ

	Init	ial information (fr	om database)		Revised	
Number & dates of crashes in previous 5 years	0					
Hazard Ranking	2882 Date Run: 6 19 10					
Railroad Data		0				
Railroad Characterist	tics	Initial Informati	on (from database)		Revised	
Total trains per day		16				
< i per day						
Day thru trains		6				
Night thru trains		10				
Daytime switching movements		2				<u></u>
Nighttime switching movem	ents			<u> </u>		
Total number of tracks		01		÷	<b></b>	*
Number of main tracks		ON	<u> </u>			
Number of other tracks		60	······································			
Typical train speed		<u> </u>				
Amorak						
	<u>_</u>					
f non-gated crossing, is clearing	sight distanc	e adequate in all qua	drants: (See Table ()	Erres [	] No	
		sing at the same time	el 🗌 Yes 🔂 Mo			
f multiple tracks, can two trains					•	
Can one train block the motoris Are there other track(s) crossin If yes, Crossing DOT #(if diff If yes, distance	sts' view of an g this same r ferent)	oadway within 100 fi		Yes LAK		
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Is there a nearby intersection that could cause queuing over the crossing? No Yes If yes, Distances to this intersection signalized? No Yes Are the signals currently interconnected with the existing crossing warning devices? [HNO Yes is to the consensu of the Disgnortic Review Team that this is a potential disture project [HNO Yes Explain reasons: Type of Development [Copen Space    netitational [Industrial    Commercial Location of nearby schools: [Industrial    Commercial Location of nearby schools: [Industrial power available    No PTes Utility Provider (Company Name)		
If yes,       Distance         Distance		
Are the signals currently interconnected with the existing crossing warning devices?NoYesYes	If yes, Distance	
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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         Candiever Flashing Lights         Side Lights         Bells         Sidewalk Gate Arms         'No Turn' Signs	Install  Install  Ifes Ifes Ifes Ifes Ifes Ifes Ifes Ife	ed? No No No No No No No No No No	Qui 72 72 73 73 74 74 74 74 74 74 74 74 74 74 74 74 74	Length;
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Type of Warning DevicesAdvance Warning Signs'Stop' Signs'Stop Ahead' SignsPavement MarkingsCrossbucksNumber of Tracks SignsInventory TagsInterconnected Highway Traffic SignalMast-Mounted Flashing LightsCantilever Flashing LightsSide LightsAutomatic GatesBellsSidewalk Gate Arms'No Turn' SignsIlluminationIs crossing flagged by train crew?	Install Yes Yes Yes Yes Yes Yes Yes Yes	ed? No No No No No No No No No No	Qui 72 72 73 73 74 74 74 74 74 74 74 74 74 74 74 74 74	Length;
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	Install  Install  Install  Ifes Ifes Ifes Ifes Ifes Ifes Ifes Ife	ed? No No No No No No No No No No	Qui 72 72 73 73 74 74 74 74 74 74 74 74 74 74 74 74 74	Length;

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	Int	tial Information (f	rom database)	Revised		
Number & dates of crashes		<u> </u>				
in previous 5 years	<u> </u>	<u> </u>				
Hazard Ranking		42.0	Date Run: 6 1 10			en en gran des
Railroad Data						
Railroad Characteris	tics		ion (from database)		Revised	
Total trains per day		<u></u>	<u>e</u>			
<pre></pre>			1	+		
Night thru trains			<u>8</u>		<b></b>	
Daydme switching movement		(		╉╼╴╼╍╍		
Nighttime switching movem	and the second	· · · · · · · · · · · · · · · · ·	Ô		<u></u>	
Total number of tracks			NE			
Number of main tracks		C	NE			
Number of other tracks		<sup>_</sup>				
Maximum train speed		5	0	J		
Typical train speed			0			·····
Amtrak			NE			
If non-gated crossing, is clearing	sight distant	e adequate in all qu	adrancs? (See Table I)		No	
If multiple tracks, can two trains	occupy cro	ssing at the same tin	ne? 🔲 Yes 🔂 🕅 🕅			
Can one train block the motoris	sts' view of a	nother train at cross	sing? 🔲 Yes (Explain ba	elow) 🖸 Mi	0	
Are there other track(s) crossin If yes, Crossing DOT #(if dif	ferent)					
lf yes, distance Roadway Data	(take mea		rack centerlines at close	ast point along to	adway)	
If yes, distance Roadway Data Local Highway Authority:	_ (take mea	Drio	n Townskip			
lf yes, distance Roadway Data	_ (take mea	Unitial Informati	on (from database)		adway) Revised	
If yes, distance Roadway Data Local Highway Authority:	_ (take mea	Unitial Informati	n Townskip			
if yes, distance Roadway Data Local Highway Authority: Roadway Characterist	_ (take mea	Unitial Informati	on Townskip on (from database)		Revised	
If yes, distance Roadway Data Local Highway Authority: Roadway Characterist Average daily traffic	(take mea	Initial Informati	on (from database)		Revised 120	
If yes, distance Roadway Data Local Highway Authority: Roadway Characterist Average daily traffic Highway paved Roadway Surface: Blacktop	(take mea	Initial Informati	on (from database)		Revised 120	
If yes, distance Roadway Data Local Highway Authority: Roadway Characterist Average daily traffic Highway paved	(take mea	Initial Informati	on (from database)		Revised 120	
If yes, distance Roadway Data Local Highway Authority: Roadway Characterist Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: ES ft.	(take mea	Initial Informati	on (from database) A lo her		Revised 120	
If yes, distance Roadway Data Local Highway Authority: Roadway Characterist Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: 10 ft. Number of highway lanes	(take mea	Initial Informati	on (from database) A lo her		Revised 120	
If yes, distance Roadway Data Local Highway Authority: Roadway Characterist Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: B ft. Number of highway lanes Urban or Rural Vehicle Speed: MPH	(take mea tics	Unitial Informati	on (from database) A lo her		Revised 120	
If yes, distance Roadway Data Local Highway Authority: Roadway Characterist Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: Blacktop Roadway width: Blacktop Roadway width: Blacktop Roadway of highway lanes Urban or Rural	(take mea tics Gravel	Unitial Informati	in Tourskip on (from database) M lo her		Revised 120	
If yes, distance Roadway Data Local Highway Authority: Roadway Characterist Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: Blacktop Roadway Data	(take mea tics Gravel    No	Initial Informati	in Tourskip on (from database) M lo her		Revised 120	
If yes, distance Roadway Data Local Highway Authority: Roadway Characterist Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: B ft. Number of highway lanes Urban or Rural Vehicle Speed: MPH School Bus Operation: No Hazardous Materials Trucks: D	(take mea tics	Initial Informati	in Tourskip on (from database) M lo her		Revised 120	
If yes, distance Roadway Data Local Highway Authority: Roadway Characterist Average daily traffic Highway paved Roadway surface: Blacktop Roadway width: Shacktop Roadway width: Shacktop Roadway width: Shacktop Roadway width: Shacktop Roadway width: Shacktop Roadway width: Shacktop Koadway Width: Shacktop K	(take mea tics	Initial Informati	A Townskip on (from database) A lo her A L		Revised 120	
If yes, distance Roadway Data Local Highway Authority: Roadway Characterist Average daily traffic Highway paved Roadway Surface: Blacktop Roadway width: 125 ft. Number of highway lanes Urban or Rural Vehicle Speed: 5 MPH School Bus Operation: 1 No Hazardous Materials Trucks: 5 Shoulders: 1 No Is there existing guardrail along r	(take mea tics Gravel       	Initial Informati	No Yes		Revised 120	
If yes, distance Roadway Data Local Highway Authority: Roadway Characterist Average daily traffic Highway paved Roadway surface: Blacktop Roadway width: B ft. Number of highway lanes Urban or Rural Vehicle Speed: MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No Hazardous Materials Trucks: Shoulders: No Is the shoulder surfaced? Wo Is there existing guardrail along r	(take mea	Initial Information Initial I	In Townskip on (from database) A lo her A A A No If no, deficient a	pproach(es)	Revised 12.0 No	
If yes, distance Roadway Data Local Highway Authority: Roadway Characterist Average daily traffic Highway paved Roadway surface: Blacktop Roadway width: B ft. Number of highway lanes Urban or Rural Vehicle Speed: MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No Hazardous Materials Trucks: Shoulders: No Is the shoulder surfaced? Mo Is there existing guardrail along r Is stopping site distance adequate Quadrant NW Cur	(take mea ics Gravel Gravel No See Table rb and Gutte	Initial Information Initial I	No If no, deficient a	Pproach(es) Curb an	Revised	
If yes, distance  Roadway Data  Local Highway Authority:  Roadway Characterist  Average daily traffic  Highway paved  Roadway width: Blacktop  Roadway width: ft.  Number of highway lanes  Urban or Rural  Vehicle Speed: MPH  School Bus Operation: No  Hazardous Materials Trucks: Shoulders: No  Is there existing guardrail along r  Is stopping site distance adequate  Quadrant Kurbon Curb  Functional (Curb height # 4)	(take mea	Initial Informati	In Tourskip on (from database) A ber A No Yes No If no, deficient a Quadrant Curtional (Cur	pproach(es) Curb an b height = 4" or	Revised	
If yes, distance Roadway Data Local Highway Authority: Roadway Characterist Average daily traffic Highway paved Roadway surface: Blacktop Roadway width: B ft. Number of highway lanes Urban or Rural Vehicle Speed: MPH School Bus Operation: No Hazardous Materials Trucks: Shoulders: No Hazardous Materials Trucks: Shoulders: No Is the shoulder surfaced? Mo Is there existing guardrail along r Is stopping site distance adequate Quadrant NW Cur	(take mea	Initial Informati	In Tourskip on (from database) A ber A No Yes No If no, deficient a Quadrant Curtional (Cur	Pproach(es) Curb an	Revised	

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Budundan EV. CB.Y.	
Pedestrians: Yes Is sidewalk present? Vo Yes	
is there a nearby intersection that could cause queuing over the lifyes,	he crossing? 🖃 No 🔲 Yes
Distance	
Is this intersection signalized?	
Are the signals currently interconnected with the existing cr	ossing warning devices? TNo / DYes
Is it the consensus of the Diagnostic Review Team that this is a Explain reasons:	a potential closure project: 🗹 No 🔲 Yes
Type of Development	
Open Space Institutional Location of net	
🗋 Industrial 👘 Commercial	Madison Plain,
Residential	
Utility Information	
Is commercial power available? No Pres	
Utility Provider (Company Name) ON6 Edisou	Phone Number
Nearest Available Power Source	
What other utilities are present? Flyer Cable	
Is there potential utility conflict(s) Yes No	-Unknown
Diagnostic Team Recommendations	সমান কৰে। এই পিনি আৰু প্ৰতি পৰি কৰে বিদ্যালয় বিভাগৰ কিন্তু হৈ বিভাগৰ প্ৰথম কৰে কৰে বিভাগৰ কৰে বিভাগ বিভাগৰ কৰে সমান কৰে
	Quadrants Needed
Install/upgrade active devices	
Automatic Hashing Lights (AFLS)	
AFLS / Cants	
AFLS / Gates	
AFLS / Gates / Cants	
Sidelights	
Install/Replace curb	
Comments:	
Install/upgrade traffic signal preemption	
No improvements needed	
Other (define)	
Field Dimensions	

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