

NOV 22 2010

DOCKETING DIVISION Public Utilities Commission of Ohio



To: Docketing Division

From: George Martin, Grade Crossing Planner, Rail Division

**Re:** In the matter of the authorization of the Wheeling & Lake Erie Railway to install active grade crossing warning devices in Summit County

**Public Utilities** 

**Commission of Ohio** 

15

Date: November 22, 2010

The Ohio Rail Development Commission (ORDC) has authorized funding for the Wheeling & Lake Erie Railway (WE) to install mast-mounted flashing lights and roadway gates at the following locations in Summit County:

SR 82/Aurora Rd, City of Twinsburg, DOT# 472689L

SR 91/Darrow Rd, City of Twinsburg, DOT# 475950G

These crossings were surveyed due to a constituent complaint through the Angels on Track Foundation. The crossings were surveyed on September 13, 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- 2780 -RR-FED In the matter of the authorization of the Wheeling & Lake Erie Railway to install active grade crossing warning devices in Summit County

This is to certify that the images appearing are an accurate and complete reproduction of a cide file document delivered in the regular course of business rechnician \_\_\_\_\_\_ Date Processed \_\_\_\_\_\_

C: Legal Department

Please serve the following parties of record.

Ms Susan Kirkland Ohio Rail Development Commission 1980 W Broad St, 2<sup>nd</sup> Floor Columbus, Oh 43223

.

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

Ohio Edison

1910 W Market St

Akron, Oh 44313

Mr Mark Thomas

ODOT District 4

2088 S Arlington Rd

Akron, Oh 44306

Ms Amy Mohr

City Engineer

10075 Ravenna Rd

Twinsburg, Oh 44087

### OHIO RAIL DEVELOPMENT COMMISSION INTER-OFFICE COMMUNICATION

то:	George Martin, Planner, Railroad Division, PUCO
FROM:	Susan Kirkland, Manager, Safety Section, ORDC
BY:	Cathy Stout, Safety Section, ORDC Cathy Stout .
SUBJECT:	Summit County, Wheeling & Lake Erie Railroad (WLE) SR 82-9.19 Aurora Road, AAR# 472689L SR 91-20.36 Darrow Road, AAR# 475950G PID No. 89405
DATE:	November 22. 2010

The Ohio Rail Development Commission (ORDC) established a diagnostic review at the subject locations on September 13, 2010. The Public Utilities Commission of Ohio (PUCO) attended the review. The Diagnostic Team recommended the installation of flashing lights and roadway gates. A copy of the diagnostic review form is attached.

The warning device improvement project on Aurora Road was requested by a constituent through *The Angels on Track Foundation* website. The warning device improvement on Darrow Road is in close proximity to Aurora road. The ORDC will fund the project by reimbursing WLE at 100% of eligible costs.

Please issue an Order for the project outlined above. This construction authorization is made with the stipulation and understanding that any field work needs prior approval before the work begins. This authorization is made with the stipulation and understanding that an approved estimate may contain entries for items or activities that may be cited and found to be ineligible for federal participation during the project audit.

Thank you for your assistance with these matters.

Attachment: Diagnostic Reviews (2)

c: M. Fortè (file) Dan Reinsel, WLE



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# Diagnostic Review Team Survey

		Date: 9-13-2010
Hotosian Data		
Street or Road Name: E Aurora	Rd	
Route/Road Number (i.e. Twp., Co., SR or US) SR 82 (include SL)	1 if State or US route) 9, 9	AAR-DOT No: 4776891
County: Summit Township:	Sity:	Thrinsburg
Railroad	Railroad	Branch/Line
Name: WLE S	V& Division: CLEVELAND	Name:
Timetable Station: Falls Jct		20.9
Con-likes) extends for the second		
(Include: Name - Organization - Phone Number	)	
1. MIKE FORTE	ORDL	614.374.9287
2. Roy Kolosa	WILE	370.904.0700
3. Any Mohr	City of Taraba	330 963 6233
4. Mark Thomas	ODOT Bail &	330 - 786 - 4846
5. GEORGE MARTIN	PUCO	614-752-9107
<u>б</u> .		
7		
0		
o		
BRISHIE I FAMIC CONFOLD EVICES		
Type of Warning Devices	/ Installed?	Quantity/Comments
Advance Warning Signs	Yes No	
'Stop' Signs	Yes No	
'Stop Ahead' Signs	Yes No	
Pavement Markings	Yes No	Stop lines + RR ning Symbols
Crossbucks	YesNo	2-stundard
Number of Tracks Signs	Yes V No	
Inventory Tags	Yes - HNO	
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 - ANO	
Sidewalk Gate Arms	Yes No	
'No Turn' Signs	Yes No	· · · · · · · · · · · · · · · · · · ·
Illumination	Yes INo	
Is crossing flagged by train crew?		
Other	Yes INO	

UPDATED (12/2006)

	Init	ial Information (fr	om database)		Revised	
Number & dates of crashes	$1 - \frac{7}{28}/08$					
Hazard Ranking			Data Rum 9 27.410			
2 Jailly Art. Horrey						raya a shiri an ingi Tangan a shiri an ingi
Bailroad Characteris	tics	Initial Information	<u>an (from database)</u>		Revised	
Total trains per day		- miciar information つ	on (nom cacabase)		Nevised	
<   per day		ζ.	e	1		
Day thru trains		1		1		
Night thru trains		<u> </u>				
Daytime switching movemen	nts	(	້ <u></u> ັ			
Nighttime switching movem	ents	(	<u> </u>			
Total number of tracks			· · · · · · · · · · · · · · · · · · ·			
Number of main tracks						
Number of other tracks		(	0			
Maximum train speed		30	<u></u>		10	
Typical train speed						
Amtrak			NO			
If non-gated crossing, is clearing	sight distance	e adequate in all qua	drants? (See Table 1)	🗆 Yes 🛛	No	
If multiple tracks, can two trains	s occupy cros	ssing at the same time	e? 🗌 Yes 🔲 No	(NIN)		
Can one train block the motoris	sts' view of a	nother train at crossi	ing? [] Yes (Explain be	low)	10	
Are there other track(s) crossin	g this same i	roadway within 100 fi	t of this crossing?	Yes No		{
Are there other track(s) crossing this same roadway within 100 ft of this crossing? 1 Yes 1/1 No If yes, Crossing DOT #(if different)						
If yes, distance (take measurement between track centerlines at closest point along roadway)						
If yes, distance	_ (take mea:	surement between tr	ack centerlines at close	st point along r	oadway)	an la su anna an ann an an an an an an an an an
lf yes, distance Roaniway Datat	_ (take mea:	surement between tr	ack centerlines at close	st point along r	oadway)	
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Pedestrians; 🗌 No 🖉 Yes	
Is sidewalk present? 🔽 No 🗌 Yes	
Is there a nearby intersection that could cause If yes, Distance	a queuing over the crossing? In No Thes
ls this intersection signalized? 🔲 No	Tes Tes
Are the signals currently interconnected wit	th the existing crossing warning devices? 🔲 No 🛛 📋 Yes
Is it the consensus of the Diagnostic Review T Explain reasons:	eam that this is a potential closure project: 7No Yes
Type of Development	
Open Space	Location of nearby schools:
Industrial Commercial	
Residential	
UtilityInformation	$\sim$
ls commercial power available? 🔲 No	<sup>™</sup> Yes
Utility Provider (Company Name) (ST	ENERGY Phone Number
Nearest Available Power Source AT	KING
What other utilities are present? GAS	ELECTRIC PHONE CABLE
Is there potential utility conflict(s) Yes	
Diagnostic Team Recommendatio	ons
	Quadrants Needed
Install/upgrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	
AFLS / Gates	
AFLS / Gates / Cants	
Upgrade circuitry	
Sidelights	
Guardrail Needed	
Install/Replace curb	
Other (define)	
Comments: BELL - WHILE	DECENDING
Install/upgrade traffic signal preemption	
No improvements needed	
Other (define)	
Field Dimensions	

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Field Sketting
DEX. CASE
00000 ATH DLIGHT
SR 82
50000 FL
OH PHONE
Crossing Angle 0-29° 30-59° 60-90° Measured in <u>St</u> Quadrant?

#### TABLE I

### **Clearing Sight Distances**

Maximum Authorized Train Speed	Distance (dT) Along -Railroad-from_Crossing (ft)
(1.10	240
15	360
20	480
25	600
30	720
35	840
40	960
45	1080
50	1200
55	1320
60	1440
65	1560
70	1680
75	1800
80	1920
85	2040
90	2160

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

Notes:

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

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

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

### Table 2

### Stopping Sight Distances

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

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

Notes:

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

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

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



## Diagnostic Review Team Survey

		Date: 4-13-2010
. m. (10,110) to		
Street or Road Name: Darrow R	à.	
Route/Road Number (i.e. Two, Co., SR or US) SR 91 (include SLM	1 if State or US route) 70,36	AAR-DOT No.: 47CACOG
County: County: Township:		
Bailroad	Pailmed	I WINSOUG
Name: WLE	SUBDIVISION: CLEVELAND	Name:
Nearest RR Timestale Station: Folls Tott		RR Milepost:
Include: Name Organization Theme Manhan	an a	
MIKE So D TC		C11- (111, 0283
1. MARE FORIE	URVU	614-694-0203
2. KAY Kolasa	<u> </u>	330 - 909 . 0700
3. GERGE MARTIN	PUCO	614-752-9107
A Any Mala	C. PT 1	(230) 962-6722
Mark The		(20) 701-10140
» - Mark homas		(330) 186-4840
5.	·····	
7		
7		······
7		
7 8 9		· · · · · · · · · · · · · · · · · · ·
7. 3. 5. Sals ling trainor control Devices		
7. 8 9 Stisting Iratino Control Davices Type of Warning Devices	, Installed?	Quantity/Comments
7. 3. 5. 5. 1.5. (1) F. H.C. III C. Cattard Playicos Type of Warning Devices Advance Warning Signs	Installed?	Quantity/Comments 2-
7. 3 3 3 5.	Installed?	Quantity/Comments 2-
Advance Warning Signs Stop / Signs	Installed? Yes No Yes No Yes No Yes No	Quantity/Comments 2-
7. 3. 3. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5	Installed?	Quantity/Comments 2- Ma Stop Lives & P.R. Xing Sylned
7. 3. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5		Quantity/Comments 2- Ma Stop lines + P.R. Xing Sylved 2
7. 3. 3. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5	Installed?	Quantity/Comments 2- Ma Stop lives + P.R. Xing Sylved 2
7. 3. 3. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5	Installed?         Installed?         Yes       No	Quantity/Comments 2- Ma Stop Lives + R-R Xing Symeds 2 1/4
7. 8. 9. 9. 9. 1. Shing Invition Standard Devices Advance Warning Signs Stop Ahead' Signs Stop Ahead' Signs Pavement Markings Crossbucks Number of Tracks Signs Number of Tracks Signs nventory Tags Interconnected Highway Traffic Signal Mass-Mounted Election Links	Installed?         Installed?         Yes       No	Quantity/Comments 2- Ma Stop lives + P.R. Xing Sylved 2 NA
7. 8. 9. 9. 9. 9. 9. 9. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Installed? Ves No Yes No	Quantity/Comments 2- Ma Stop lives + P.R. Xing Sylnton 2 NA
	Installed?         Installed?         Yes       No	Quantity/Comments 2- We Stop Lives t R-R Xing Symtols 2 NA Number: 2 Length:
7. 3. 3. 5. JSHIJSHALITOK CONTROL DEVICES Type of Warning Devices Advance Warning Signs Stop Ahead' Signs Stop Ahead' Signs Stop Ahead' Signs Pavement Markings Crossbucks Number of Tracks Signs Number of Tracks Signs Interconnected Highway Traffic Signal Mast-Mounted Flashing Lights Cantilever Flashing Lights ide Lights Mutomatic Gates	Installed?         Installed?         Yes       No	Quantity/Comments 2- M Stop lives + PR Xing Sylved 2 NA Number: 2 Length:
A         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B         B <td< td=""><td>Installed? Yes No Yes No</td><td>Quantity/Comments 2 XA Number: 2 Length: Number: Length:</td></td<>	Installed? Yes No Yes No	Quantity/Comments 2 XA Number: 2 Length: Number: Length:
A       A         B       A         B       A         B       A         B       A         B       A         B       A         B       A         B       A         B       A         B       A         B       A         A	Installed?	Quantity/Comments 2- Ma Stop Lives & P.R. Xing Symedy 2 NA Number: 2 Length: Number: Length: 1
Image: State of the state	Installed?         Installed?         Yes       No	Quantity/Comments 2- 444 Stop lives + PR Xing Symbol 2 NA Number: 2 Length: 4
A	Installed?         Yes       No	Quantity/Comments 2    Quantity/Comments  2    NA  Number: 2 Length:  Number: Length:
	Installed? Ves No Yes No	Quantity/Comments 2
7	Installed?         Installed?         Imstalled?         Imstalled?	Quantity/Comments 2  W/ Stop lives + PR Xing Syntal  N/A  Number: 2 Length:  Number: Length:  Z UNFUENT TRACK STARS - TO

UPDATED (12/2006)

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	nitial Information (fr	om database)	Revised	
Number & dates of crashes	$\sim$			
in previous 5 years	<u> </u>			
Hazard Ranking	1167	Date Run: 8-23- (C	2	
Railroid Data		and the		Terre in the second
Railroad Characteristics	Initial Informati	on (from database)	Revised	
Total trains per day	2		-4-	
< I per day				
Day thru trains		· · · · · · · · · · · · · · · · · · ·		
Night thru trains	1			
Daytime switching movements	<u>C</u>	<u>}</u>		
Nighttime switching movements		>		
Number of tracks	<u> </u>	· · · ·		
Number of main tracks				
Number of other tracks		2		
Training train speed		5 10	-48	
l ypical train speed			40	
Amtrak			IN	
If non-gated crossing, is clearing sight dis	ance adequate in all qua	drants? (See Table 1)	Yes An	
If multiple tracks, can two trains occupy	crossing at the same time		NA	
Can one train block the motorists' view	of another train at crossi	ing? 🖂 Yes (Explain b)		
Ave there other track/p) crossing this co	ne sondueu within 100 f	a ( ahia ananaian)		
If yes, Crossing DOT #6 different)	ne roadway within rou n			
If yes, Crossing DOT #(if different)				
If yes, distance (take measurement between track centerlines at closest point along roadway)				
Roadway Data	reasurement between (r	ack centerlines at close	st point along roadway)	at - Walio Si
		ack centerlines at close	st point along roadway)	a a - Maginga A a sha a
Local Highway Authority: State	$\frac{1}{2}$ City of T	ack centerlines at close	st point along roadway)	
Local Highway Authority: State Roadway Characteristics	City of T Initial Informatic	in (from database)	st point along roadway) Revised	
If yes, distance       (lake in the second sec	<u>City of T</u> Initial Informatic	winsburg (2057)	st point along roadway) Revised	
It yes, obstance     (take it       It yes, obstance <td>City of T Initial Information</td> <td>ack centerlines at close <math>\frac{1}{1000}</math> <math>\frac{1}{1000}</math> <math>\frac{1}{1000}</math> <math>\frac{1}{1000}</math></td> <td>Revised</td> <td></td>	City of T Initial Information	ack centerlines at close $\frac{1}{1000}$ $\frac{1}{1000}$ $\frac{1}{1000}$ $\frac{1}{1000}$	Revised	
If yes, obstance       (take in the second sec	City of T Initial Information	ack centerlines at close <u>MINS butu</u> on (from database) ) (2007) er	Revised	
If yes, obstance       (take in the second sec	City of T Initial Informatic DYes DNc Concrete Oth	ack centerlines at close winsburg in (from database) ) (2007) er	Revised	
If yes, distance       (take in the second sec	City of t Initial Informatic / 1600C	ack centerlines at close <u>MINS butu</u> on (from database) ) (2007) er	Revised	
If yes, obstance       (take in the second sec	City of T Initial Informatic Ves Note Concrete Oth	ack centerlines at close $\frac{1}{1000}$ (1000) $\frac{1}{2007}$ er	Revised	
If yes, ofstance       (take in the second sec	City of t Initial Informatic / IGOOC / Yes No el Concrete Oth	ack centerlines at close <u>winsburg</u> on (from database) ) (2007) er	Revised	
If yes, obstance       (take in the second sec	City of T Initial Information	ack centerlines at close <u>MINSOULU</u> on (from database) ) (2007) er 	Revised	
If yes, ofstance       (take in the second sec	City of T Initial Informatic Initial Informatic I Yes No Concrete Oth Yes Amount?	ack centerlines at close <u>MINSOULU</u> in (from database) ) (2007) er  SCH00L UN	Revised	
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If yes, ofstance       (take in the second sec	City of T Initial Informatic I Yes INC Concrete Oth Concrete Oth Yes Amount?	ack centerlines at close <u>winsburg</u> in (from database) ) (2007) er er SCH00L ON unt	Revised	
If yes, ofstance     It yes, of the shoulder surfaced?     It yes, of the shoulder surface	City of t Initial Information Initial Information Yes Noted Concrete Oth	ack centerlines at close where the second s	Revised	
If yes, ofstance       (take in the shoulder surface)         Local Highway Authority:       Image: Authority:         Roadway Characteristics         Average daily traffic         Highway paved         Roadway Surface:       Image: Blacktop         Roadway Surface:       Image: Blacktop         Roadway Surface:       Image: Blacktop         Roadway width:       Image: Second Se	City of t         Initial Information	ack centerlines at close $\sqrt{1} \sqrt{5} 6000$ on (from database) ) (2007) er er SC 4000 0N unt	Revised	
If yes, ofstance       (take in the shoulders:	City of T         Initial Information	ack centerlines at close whose build in (from database) ) (2007) er SCH00L UN int Vo Yes No If no, deficient a	Revised	
If yes, ofstance       (take in the shoulder surface)         Local Highway Authority:       Image: Authority:         Roadway Characteristics         Average daily traffic         Highway paved         Roadway Surface:       Blacktop Grave         Roadway width:       Image: State Stat	City of t         Initial Informatic         Initial Informatin         Initial In	ack centerlines at close (1/1/5/02/04 (2007) (2007) er SCH002 UN unt Vo Yes No If no, deficient a Quadrant	Revised          Revised         Yes         No         STREET         opproach(es)         Curb and Gutter:	
If yes, ofstance       (take in the second sec	Initial Informatic         I	ack centerlines at close whose build in (from database) ) (2007) er clu SCH00L DA int Vo Yes No If no, deficient a Quadrant Functional (Cur	Revised     Yes     Yes     No     STREET     oproach(es)        Curb and Gutter:     b height = 4" or more)	
If yes, ofstance       (take in the second sec	City of t         Initial Informatic         Initial Informatin         Initial In	Ack centerlines at close (1/1/5/02/24) (2/057) (2/057) er SC (4/002 0) J Vo SC (4/002 0) J Vo SC (4/002 0) J SC (4/000 0) J SC (4/000 0) J SC	Revised     Yes     Yes     No     STREET     oproach(es)     Curb and Gutter:     b height = 4" or more)   (Curb height = Less than 4")	

Pedestrians: VINo TYes	
Is sidewalk present? YNO Yes	
Is there a nearby intersection that could cause queuing over the	crossing? ZNo TYes
If yes, Distance	
Is this intersection signalized? 🔲 No 🛛 🗍 Yes	
Are the signals currently interconnected with the existing cro	ssing warning devices? 🗍 No 📄 Yes
Is it the consensus of the Diagnostic Review Team that this is a Explain reasons:	potential closure project: 🗌 No 🔲 Yes
Type of Development	
Open Space Institutional Location of near	by schools:
Industrial Commercial	MILE SOUTH
Utillity Information	
Is commercial power available? No Ves	
Utility Provider (Company Name) 1ST ENCREY	Phone Number
Nearest Available Power Source AT CROSSIN	
What other utilities are present? (AS PHONE?	LINTER
Is there potential utility conflict(s) $\Box$ Yes $\Box$ No $\Box$ I	Jnknown
- Maguoscissi eaningecommendations	Que deuxes Mande d
Install/ungrade active devices	
Automatic Flashing Lights (AFLS)	
AFLS /Cants	
AFLS / Gates	
AFLS / Gates / Cants) Or NORTH SIDE	GNLY
Upgrade circuitry	۹ ۲۰۰۰
∐ Sidelights	
Comments: BELL RINGS UNTIL GATE	S ARE MORIZONTAL
Install/upgrade traffic signal preemption	1
□ No improvements needed	
Other (define)	
Field Dimensions	



THEOREMAN ALTERNATION AND A SR 91 CASE ASSOCIATE CANT FL CANT
CH, ELEC +
Crossing Angle 0-29° 1 30-59° 60-90° Measured in <u>NW</u> Quadrant?

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### TABLE I

### **Clearing Sight Distances**

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

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

### Notes:

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

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

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

### Table 2

**Stopping Sight Distances** 

Highway Vehicle Speed	Distance (dH) Along Roadway from Crossing (fc)
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 5foot increment.

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

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