

# ALABAMA DEPARTMENT OF TRANSPORTATION RAIL-HIGHWAY DIAGNOSTIC REVIEW FORM

DOT Crossing No:	Date of Diag. Rev:	Project No.	/ Ref. No.
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### LOCATION DATA

Railroad:	City/Town:
Street/Road Name:	County:

### DIAGNOSTIC TEAM

#	Name	Affiliation	Tel. No.
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

### RAILROAD DATA

### ROADWAY DATA

Initial Info.*	Revised Info.	Crossing Characteristics	Initial Info.*	Revised Info.	Crossing Characteristics
_____	_____	<b>Total Trains/Day (24 Hours)</b>	_____	_____	<b>No. of Traffic Lanes Crossing RR</b>
_____	_____	Day Thru	_____	_____	_____ Bound _____ Ft.
_____	_____	Night Thru	_____	_____	_____ Bound _____ Ft.
_____	_____	Day Switching	_____	_____	<b>Average Daily Traffic (ADT)</b>
_____	_____	Night Switching	_____	_____	<b>Percent Trucks</b>
_____	_____	<b>Number of Main Tracks</b>	_____	_____	<b>Type Highway Surface</b>
_____	_____	<b>Number of other Tracks</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> Yes	<b>School Buses</b>
_____	_____	<b>Maximum Train Speed</b>	<input type="checkbox"/> No	<input type="checkbox"/> No	<i>If yes, Number per day: _____</i>
_____	_____	<b>Amtrak Movements Per Day</b>	<b>Comments:</b>		
_____	_____	<b>Crossing Surface Type</b>			
_____	_____	<b>Smallest Crossing Angle</b>			
_____	_____	<b>Legal railroad speed limit through municipality</b>			

*\*Initial information obtained from the U. S. DOT/AAR Crossing Inventory Form.*

DOT Crossing No: \_\_\_\_\_

**EXISTING WARNING DEVICES**

Quantity	Type of Warning Device	Quantity	Type of Warning Device
_____	Advance Warning Signs	_____	Mast Mounted Flashing Lights
_____	Stop Signs	_____ 8" _____ 12"	
_____	Stop Ahead Signs	_____	Cantilever Flashing Lights
_____	"No Passing" Pennants	_____ 8" _____ 12"	
_____	"No. of Tracks" Signs	_____	Side Lights
_____	Crossbucks	_____ 8" _____ 12"	
_____	R X R Pavement markings	_____	Gates
_____	Stop Bar	_____	Bell (s)
_____	Double Yellow	_____	Variable Message Signs
_____	Interconnected Highway Traffic Signals	_____	No Right Turn _____ No Left Turn
_____	Inventory Tags	_____	Illumination at Crossing
Is crossing flagged by a train crew?      Yes      No			

Comments: \_\_\_\_\_

**FIVE YEAR ACCIDENT DATA**

Time period: _____ to _____	_____ No. of Property Damage Only Acc.	_____ Total No. of Personal Injuries
TOTAL NUMBER OF ACC. _____	_____ No. of Personal Injury Acc.	_____ Total Number of Fatalities
	_____ No. of Fatal Acc.	

**ENVIRONMENTAL INFORMATION**

Location of Nearby Schools: \_\_\_\_\_ New Development That Could Affect ADT?      Yes      No

If Yes, Describe: \_\_\_\_\_

Note: Complete the following section only if recommendations involve closure.

**ADJACENT CROSSINGS**

AAR/DOT No.	Street/Road Name	Distance	Warning Device	ADT

Is there adequate access from this crossing to adjacent crossings?      Yes      No  
 If yes, which crossing (s): \_\_\_\_\_

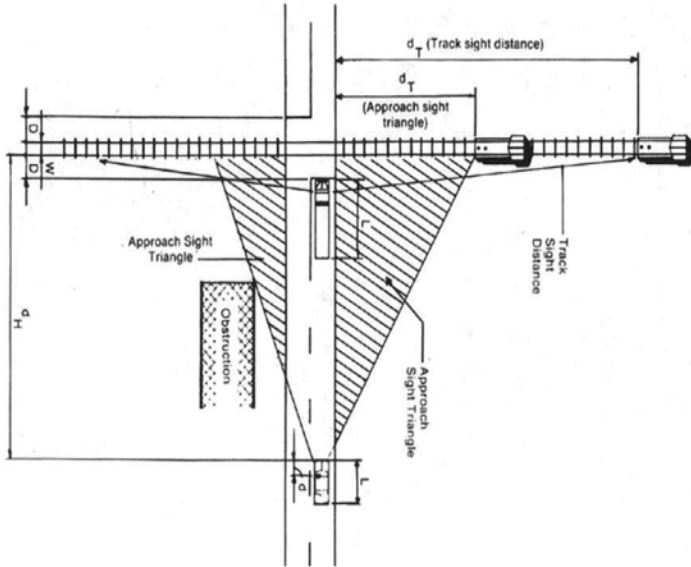
Sketch: \_\_\_\_\_

Can roadway realignment be accomplished to allow consolidation of crossings?      Yes      No

If yes, provide sketch.

Impact of closure: \_\_\_\_\_

SIGHT DISTANCE LOCATION SKETCH



AAR/DOT NO:

REQUIRED DESIGN SIGHT DISTANCE FOR COMBINATIONS OF HIGHWAY AND TRAIN VEHICLE SPEEDS

Train Speed (mph)	HIGHWAY SPEED MPH								
	0	10	20	30	40	50	60	70	80
	DIST. (FT.) ALONG RAILROAD FROM CROSSING (D <sub>t</sub> )								
10	240	146	106	99	100	105	111	118	126
20	480	293	212	198	200	209	222	236	252
30	721	439	318	297	300	314	333	355	378
40	961	585	424	396	401	419	444	473	504
50	1201	732	530	494	501	524	555	591	630
60	1441	878	636	593	601	628	666	709	756
70	1681	1024	742	692	701	733	777	828	882
80	1921	1171	848	791	801	833	888	946	1008
90	2162	1317	954	890	901	943	999	1064	1134
	DIST. (FT.) ALONG HIGHWAY FROM CROSSING (D <sub>h</sub> )								
	n/a	69	135	220	324	447	589	751	931

D<sub>t</sub> = Sight distance along the railroad tracks to permit the vehicle to cross and be clear of the crossing upon arrival of the train.  
 D<sub>h</sub> = sight distance measured along the highway from the nearest rail to the driver of a vehicle, which allows the vehicle to be safely stopped without encroachment of the crossing area, feet.

Note: for reference, see pages 65 - 69 of the Railroad Highway Grade Crossing Handbook, Second Edition, August 2007

SKETCH OF SIGHT DISTANCE AND EXISTING CONDITIONS

Typical Train Speed:				MPH	Typical Highway Speed:				MPH
APPROACH SIGHT DISTANCE					STOPPED VEHICLE SIGHT DISTANCE				
Required Dist. D <sub>t</sub>		Ft.	Required Dist. D <sub>h</sub>	Ft.	Required Dist. D <sub>t</sub> (With Vehicle Speed of 0)		Ft.		Ft.
NORTHWEST QUADRANT					NORTHEAST QUADRANT				
Sight Obstruction:	Approach		At Stop Bar		Sight Obstruction:	Approach		At Stop Bar	
	Actual Dist. D <sub>t</sub>		Ft.			Ft.	Actual Dist. D <sub>t</sub>		Ft.
SOUTHWEST QUADRANT					SOUTHEAST QUADRANT				
Sight Obstruction:	Approach		At Stop Bar		Sight Obstruction:	Approach		At Stop Bar	
	Actual Dist. D <sub>t</sub>		Ft.			Ft.	Actual Dist. D <sub>t</sub>		Ft.

**DOT Crossing No:** \_\_\_\_\_

ALABAMA DEPARTMENT OF TRANSPORTATION  
RAIL-HIGHWAY GRADE CROSSING  
SITE SKETCH OF PROPOSED IMPROVEMENTS

DOT Crossing No:

**RECOMMENDATIONS**

Are improvements to the crossing recommended?

Yes

No

If no, explain:

If yes, what improvements:  
(Check if Appropriate)

Describe Improvements:

Crossing Closure

Mast Mounted Signals

Cantilevered Signals

Oversize Signs

Crossing Gates

Highway Traffic Signs

Type 11 Reflective Backing

Pavement Markings

Guardrail Strips (3M)

Roadway Improvements

Median Curbs (Mountable)

Crossing Surface

Grade Crossing Predictors

(GCP requirements to be determined by the railroad).

Other

Estimated cost of improvements:

Comments:

Prepared by:

Title:

Date: