

ENGINE RETARDER RESTRICTION ENGINEERING AND TRAFFIC STUDY

PLEASE TYPE OR PRINT ALL INFORMATION IN BLUE OR BLACK INK



pennsylvania
DEPARTMENT OF TRANSPORTATION
www.dot.state.pa.us

A - LOCATION INFORMATION

COUNTY	MUNICIPALITY
STREET NAME	TOWNSHIP ROAD #
SR#	SEGMENT
RESTRICTED BETWEEN: Segment: Offset:	To Segment: Offset:
Location:	to Location:
Side of Street: <input type="checkbox"/> EAST <input type="checkbox"/> WEST <input type="checkbox"/> NORTH <input type="checkbox"/> SOUTH	

B - REFERENCE INFORMATION

REFERENCE PUB 46	SECTION(S) Chapter 11.8
REFERENCE Vehicle Code Title 75 Pa. C.S.	SECTION(S) §4103, 4501, 4974

C - STUDY ELEMENTS

FROM PUB 212 APPENDIX:

<input type="checkbox"/> Crash Analysis (1)	<input type="checkbox"/> Speed Data (17)
<input type="checkbox"/> Geometric Review (8)	<input type="checkbox"/> Traffic Volumes (20)
<input type="checkbox"/> Sight Distance (16)	<input type="checkbox"/> Type of Highway (21)
	<input type="checkbox"/> Other: _____

D - ATTACHMENTS LISTING

Check those that apply and attach to this form in the order listed below:

<input type="checkbox"/> 1. 10-Day Response Letter	<input type="checkbox"/> 7. Crash Extract	<input type="checkbox"/> 13. Traffic/Pedestrian Volumes
<input type="checkbox"/> 2. Letter or Memo Requesting Study	<input type="checkbox"/> 8. Crash Rate	<input type="checkbox"/> 14. STAMPP Identification Data
<input type="checkbox"/> 3. Location Map	<input type="checkbox"/> 9. Collision Diagram Plot	<input type="checkbox"/> 15. Speed Limit
<input type="checkbox"/> 4. Straight Line Diagram	<input type="checkbox"/> 10. Speed Study	<input type="checkbox"/> 16. Traffic Signal Permit Plan
<input type="checkbox"/> 5. Photographs	<input type="checkbox"/> 11. Warrant Analysis	<input type="checkbox"/> 17. Other _____
<input type="checkbox"/> 6. Field View Drawing or Condition Diagram	<input type="checkbox"/> 12. Multi-Way Stop or Truck Restriction Worksheet	_____

Confidential - Traffic Engineering and Safety Study

This document is the property of the Commonwealth of Pennsylvania, Department of Transportation. The data and information contained herein are part of a traffic engineering and safety study. This safety study is only provided to those official agencies or persons who have responsibility in the highway transportation system and may only be used by such agencies or persons for traffic safety related planning or research. The document and information are confidential pursuant to 75 Pa. C.S.3754 and 23 U.S.C. 409 and may not be published, reproduced, released or discussed without the written permission of the Pennsylvania Department of Transportation.

E - SITE OBSERVATION CHECKLIST

Operational Checklist:

1. Do obstructions block a driver's view of pedestrians or approaching vehicles? YES NO N/A
2. Do drivers respond correctly to signals, signs, or other traffic control devices? YES NO N/A
3. Is there evidence of crashes (*skid marks, property damage, tree/bush damage, broken glass/vehicle parts, etc.*)? YES NO N/A
4. Are there violations of parking or other traffic regulations? YES NO N/A
5. Do drivers appear confused about routes, street names, or other guidance information?. YES NO N/A
6. Have you observed the location during peak hours for volume, crashes, and traffic operations? YES NO N/A
7. Are there traffic flow deficiencies or traffic conflict patterns associated with turning movements? YES NO N/A
8. Are there significant delays and/or congestion? YES NO N/A
9. Are there vehicle/pedestrians conflicts? YES NO N/A
10. Are there other traffic flow deficiencies or traffic conflict patterns? YES NO N/A

Physical Checklist:

1. Can sight obstructions be removed or lessened? YES NO N/A
2. Do the street alignments or widths adequately accommodate the type of traffic using the roadway? YES NO N/A
3. Are curb radii adequate for turning vehicles? YES NO N/A
4. Are pedestrian crosswalks properly located? YES NO N/A
5. Are signs adequate as to usefulness, message, size, conformity, and placement? YES NO N/A
6. Are traffic signals adequate as to placement, visibility, glare, conformity, number of signal heads, and timing? YES NO N/A
7. Are pavement markings adequate as to their conformance to standards and location? YES NO N/A
8. Is channelization (islands or pavement markings) adequate for reducing conflict areas, separating traffic flows, and defining movements? YES NO N/A
9. Does the existing legal parking layout affect sight distance for through or turning vehicles? YES NO N/A
10. Is the pavement condition free of potholes, washboard, slick surface, etc.? YES NO N/A

F - SITE DATA - CRITERIA FOR PROHIBITION APPROVAL

DATE DATA COLLECTED	PERSON CONDUCTING STUDY	TITLE
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In order to prohibit engine brake retarders; District Traffic Units shall ensure that all of the following are satisfied: **SATISFIED**

1. The roadway is not a limited access facility or a ramp exiting from a highway with a posted speed or 85th percentile speed of 55 mph or greater. YES NO
2. The average downhill grade does not exceed 4 percent within any 500-foot section of highway (i.e., the change elevation of the road is never greater than 20 feet in any 500-foot section of a downhill). YES NO

DOWNHILL GRADE SECTIONS GREATER THAN 4%

State/Local Route	Side	Direction	Start Segment	Start Location	% Grade	End Segment	End Location

3. A reduced speed limit or reduced gear zone does not exist for trucks due to a hazardous grade determination. YES NO
4. The posted speed limit or 85th percentile speed is less than 55 mph. YES NO
5. There is no history of runaway truck crashes in the past 3 years YES NO

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F - SITE DATA - CRITERIA FOR PROHIBITION APPROVAL (CONTINUED)

SATISFIED

6. There is no discernible pattern of rear-end crashes in the past 3 years where a truck was the striking vehicle. YES NO

CRASH HISTORY

State/Local Route	Crash Date	Comments

G - REMARKS

H - ENGINEERING JUDGEMENT

I - APPROVALS

Comments:

Reviewed and Approved by Signature	Name/Title	Date
Reviewed and Approved by Signature	Name/Title	Date

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