TE-101 (8-09)

SPEED RESTRICTIONS 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	
SR#	SEGMENT	STREET NAME
SEGMENT/OFFSET	TO SEGMENT/OFFSET	☐ ASCENDING ☐ DESCENDING ☐ BOTH
OTHER LOCATION INFORMATION:		

B - REFERENCE INFORMATION

REFERENCE	SECTION(S)
Chapter 212	212.108
MUTCD	2B.13 and 2B.18
PUB 46	Chapter 11.3 and 2.4.6
Vehicle Code Title 75 Pa. C.S.	§3362, 3363, 3364 and 6109 (a)(5)(10)

C - STUDY ELEMENTS

FROM PUB 212 APPENDIX:

☐ Crash Analysis (1)
☐ Roadside Development (13)
☐ Roadside Instructions (14)
☐ Sight Distance (16)
☐ Speed Data (17)
☐ Traffic Volumes (20)
☐ Other: _____

D - ATTACHMENTS LISTING

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

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

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

DATE DATA COLLECTED	PERSON CONDUCTING STUDY	TITLE

THIS REQUEST FOR A SPEED RESTRICTION IS BASED ON: (CHECK APPROPRIATE SECTION)

A. ☐ Section 3362 and 3363 of Pa. Vehicle Code & Section 212.108 of Title 67 (Speed Restrictions)

B. ☐ Section 3364 of Pa. Vehicle Code & Section 212.108 of Title 67 (Minimum Speed Limits)

C. ☐ Section 3365(a) the Pa. Vehicle Code & Section 212.109 of Title 67 (Bridge Speed Limits) **- SEPARATE STUDY REQUIRED, USE TE-115.**

D. ☐ Section 3365(c) the Pa. Vehicle Code & Section 212.110 of Title 67 (Hazardous Grade Speed Limits) - **SEPARATE STUDY REQUIRED, USE TE-116.**

1. The existing speed limit is _____ MPH.
2. The requested speed limit is _____ MPH.
3. The 20 _____ ADT is _____ vehicles.
   ☐ Actual ☐ Estimated

4. The area is a(n):
   ☐ Business District ☐ Residence District
   ☐ Urban District ☐ Rural District
   ☐ Interstate Highway
   ☐ Adjacent to an Urban District _____
5. The request for a speed change is being made by:
   ☐ Local Authorities _____ (list name)
   ☐ PennDOT

F - SITE DATA (CONTINUED)

6. a. 85th percentile speed _____ MPH. No. of vehicles _____

b. Safe running speed is:

North Bound/East Bound		South Bound/West Bound	
Run No. 1	_____ MPH.	Run No. 1	_____ MPH.
Run No. 2	_____ MPH.	Run No. 2	_____ MPH.
Run No. 3	_____ MPH.	Run No. 3	_____ MPH.
Run No. 4	_____ MPH.	Run No. 4	_____ MPH.
Run No. 5	_____ MPH.	Run No. 5	_____ MPH.
Total	0	Total	0
divided by		divided by	
=	NaN MPH.	=	NaN MPH.

Average Safe Running Speed is 0 **MPH.**

NOTE (1): Safe Running samples should normally consist of at least 100 observations although 50 observations is acceptable on low volume highways.

NOTE (2): Use Safe Running Speed when the 85th percentile speed cannot be obtained.

7. Does a major portion of the highway have insufficient stopping sight distance if traveling at the 85th percentile speed or the safe running speed ? . . . . . ☐ YES ☐ NO

8. Is the available corner sight distance on side roads less than the necessary stopping sight distance values for through vehicles? . . . . . ☐ YES ☐ NO

9. Are the majority of crashes related to excessive speed? . . . . . ☐ YES ☐ NO

Actual Crash Rate: _____

Applicable crash rate from homogenous table published by BHSTE annually: _____

10. Provide sketch of area indicating:
    a. Spacing of intersections and driveways
    b. Roadside development-to include schools, commercial properties, residences, etc
    c. Location of inadequate stopping or corner sight distance

11. Describe the surface features of the roadway to include: Surface-vertical and horizontal alignment, width, shoulders, crown, etc.:

_____

_____

_____

12. The signs necessary to legalize the reduced speed zone will be purchased, erected and maintained by:

☐ Local Municipality _____ (list name)
☐ Department
☐ Other _____ (list name)

13. Signs to be installed (list each type separately):

a. Sign Nomenclature Number from Pub. 236M _____

b. Number of signs to be installed _____

c. Sign Message _____

_____

14. Has the municipality agreed to purchase, erect and maintain the signs necessary to legalize the above Speed Restriction? . . . . ☐ YES ☐ NO

G - REMARKS

H - ENGINEERING JUDGEMENT

I - APPROVALS

Comments:

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