

The Roadway Speed Limit Review Packet includes three documents:

1. Data Collection OFFICE Worksheet (1 page)
2. Data Collection FIELD Worksheet (2 pages)
3. Speed Limit Determination Worksheet (2 pages)

The speed limit study should be conducted using the following four steps:

1. Determine the segmentation of the study road
An initial review of arial imagery, the crash report, and the roadway cross section should be conducted to determine if the roadway should be split into two or more segments. Reasons for segmenting the roadway may include:
 - Considerable change in driveway density
 - Considerable change in crash pattern
 - Considerable change in roadway cross-section outside of an intersection influence area
2. Using an arial image tool (e.g. Google Maps, Bing Maps, etc), complete the Data Collection OFFICE Worksheet. For a definition of terms, see the **User Guide for Roadway Speed Limit Review Forms** PDF. In addition to a glossary of terms, the document bookmarks important pages of select reference documents.
3. Complete the Data Collection FIELD Worksheet. For a definition of terms, see the **User Guide for Roadway Speed Limit Review Forms** PDF. In addition to a glossary of terms, the document bookmarks important pages of select reference documents.
4. Complete the Speed Limit Determination Worksheet
The purpose of the determination worksheet is to document the considerations made by the engineer when determining the speed limit. For each element, place an X in the appropriate column to reflect if the data collected for that element supports reducing, increasing, or maintaining the current speed limit. The **Quick Guide on Factors to Consider for Speed Studies** PDF provides a summary of research-based evidence regarding the relationship between each element and speed. If the no data were collected for the element, place an X in the “not evaluated column”.

In the final column, an X should be placed in any row for which the engineer judges an element to be critical in the determination of the speed limit. This column assists in recording the relative differences in importance of the elements given the context of the area in which the study

Date: MM / DD / YY Reference #: _____ Completed By: _____

County: _____ Municipality: _____ NCDOT Route ID: _____

Study Road: _____ Length: _____ miles Study Motivation: _____

Functional Class: _____ NCDOT Complete Street Area Type: _____

Study segment begins _____ of _____
(distance) (units) (direction) (reference road)

Study segment ends _____ of _____
(distance) (units) (direction) (reference road)

Speed limit upstream of ending point: _____ mph

Speed limit downstream of starting point: _____ mph

Current Speed Limit: _____ mph Result of 85% Speed Study: Not Conducted

AADT: _____

Traffic Composition: Local/Commuter
 Unfamiliar

Number of Driveways by Type: _____ Business _____ Residential _____ Other: _____

Driveway Density: Consistent throughout segment
 Considerable variation throughout segment

Number of Intersections by Type: _____ Signalized _____ Unsignalized

Typical Building Offset to Roadway: Consistent _____ feet
 Varies from _____ to _____ feet

Multimodal Facilities *Circle as appropriate*

Are schools present along the segment?	Y	N	Note: _____
Are parks or recreation areas present along the segment?	Y	N	Note: _____
Are pedestrian facilities present along the segment?	Y	N	Note: _____
Are transit facilities present along the segment?	Y	N	Note: _____
Are bicycle facilities present along the segment?	Y	N	Note: _____
Is on-street parking permitted?	Y	N	Note: _____

Mileposted Crashes

Fatal: _____ Type A: _____ Type B: _____ Type C: _____ PDO: _____

From: MM / DD / YY to MM / DD / YY

Attachments

Check if applicable

Strip Analysis Attached Features Report Attached Neighborhood Petition Attached

Date: MM / DD / YY Reference #: _____ Completed By: _____

County: _____ Municipality: _____

Study Road: _____

Pavement

Typical Width: _____ feet
 Type: Asphalt Concrete Dirt/Gravel Other: _____
 Condition: Good/Fair Poor
 Marking Condition: Good/Fair Poor
 Median Type: None Traversable Non-Traversable Width: _____ feet

Lanes

Total # of Thru Lanes: _____ Average Width: _____ feet TWLTL Present? **Y** **N**

Shoulders

Typical Width: _____ feet paved; _____ feet unpaved Varies from _____ to _____
 Type: Paved Unpaved Not present
 Condition: Good Fair Poor
 Recoverable: Yes No Comment: _____
 Curb: Vertical Sloped None
 Typical distance to roadside hazards: _____ feet Varies from _____ to _____

Signs

Note any warning or regulatory signs in visible need of replacement or repair

Notes: _____

Driving Investigation

Conduct a driving investigation of the segment and note any areas with potentially inadequate sight distance, vertical alignment, or horizontal alignment. Attach ball-bank study sheet if needed.

Notes: _____

Circle as appropriate

Pedestrian Activity Observed/Expected: **None** **Low** **Medium** **High**
 Bicycle Activity Observed/Expected: **None** **Low** **Medium** **High**

Photographs

Description of any photographs attached (complete as necessary)

Notes: _____

Attachments

Check if applicable

Photographs 85% Speed Raw Data Ball Bank Study Form

Notes

Use this sheet to record any additional notes about the study segment or the data collection effort.

Additionally, an image or drawing of the site can be provided at the bottom.

FOR REVIEW

Plan-view sketch of road segment
with major intersecting roads

Label each intersection control type

Attachments

List any additional attachments to this report

 _____ _____ _____

Date: MM / DD / YY

Reference #: _____

Completed By: _____

County: _____

Municipality: _____

Study Road: _____

Current Speed Limit: _____

This worksheet helps to record the elements considered by the engineer when determining a speed limit. For each element, place an X in the appropriate column depending on whether the element supports increasing the speed limit, decreasing the speed limit, or maintaining the current speed limit.

In the far column, check the box if the element is critical in determining the speed limit for this road.

Element	Supports Reducing Speed Limit	Supports No Change in Speed Limit	Supports Increasing Speed Limit	Not Evaluated	Check If Element is Critical
Road Classification & Area Type					<input type="checkbox"/>
AADT / Traffic Composition					<input type="checkbox"/>
Driveways / Intersections / Offset					<input type="checkbox"/>
Multimodal Facilities					<input type="checkbox"/>
Crashes					<input type="checkbox"/>
Neighborhood Petition					<input type="checkbox"/>
Pavement Condition					<input type="checkbox"/>
Lanes					<input type="checkbox"/>
Shoulders					<input type="checkbox"/>
Horizontal Curves					<input type="checkbox"/>
Vertical Curves					<input type="checkbox"/>
Sight Distance					<input type="checkbox"/>
85% Speed					<input type="checkbox"/>
Other:					<input type="checkbox"/>
Other:					<input type="checkbox"/>

