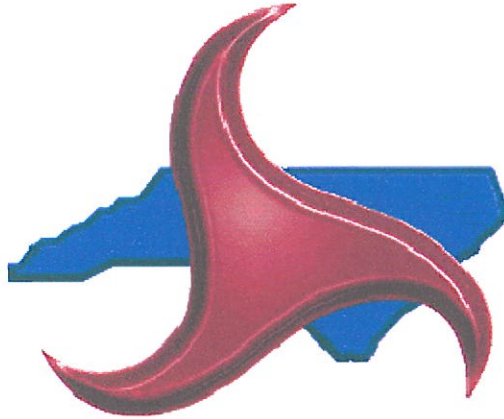


17BP.9.R.62 Bridge Design Speed Study

Bridge #840086 on SR 1651 (Snow Hill Church Road) east of Lawsonville

Stokes County

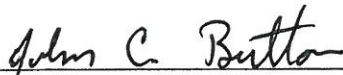


Document Prepared By:

Regional Traffic Office – Triad Region
Traffic Safety Unit
Transportation Mobility and Safety Division
North Carolina Department of Transportation

December 9, 2014

Principal Investigator:



John C. Button, PE, PLS
Triad Regional Traffic Safety Engineer



Bridge and Approach Investigation Checklist

Project 17BP.9.R.62
Description Bridge #840086 over Snow Creek
Route SR 1651 (Snow Hill Church Road)
Division 9
County Stokes

Existing Speed Limit 55 ☐ Posted ☒ Statutory

Reasonable & Comfortable
Passenger Car Speed 50 to 55 mph

Speed Data No speed data collected because of sparseness of traffic.

Ball Bank Speed Study Not done, bridge is in tangent section. The nearest curves to the bridge are beyond the speed influence area for the bridge.

Warning Signs at Bridge (4) W10-23 signs delineating bridge ends
40 Ton SV/ 43 Ton TTST signs on each approach.
W1-3 (Reverse Turn) Warning Sign with 30 mph advisory plaque
located on west side of bridge.

Roadside Development Rural

ADT History 2010 AADT = 420 vpd per NCDOT Traffic Map.
2002 AADT = 470 vpd per NCDOT Traffic Map.

Pedestrian/Bicycle Traffic SR 1695 is not listed as a bicycle route or pedestrian
route on the Stokes County Comprehensive Plan Maps.

Bridge and Approach
Digital Photos See attached photos.

Approach Lane Width 19'-11" overall pavement width; 8'-0"/8'-5" lane widths.

Approach Shoulder Width: Varies 10' to 16' +/-
Shoulder Type Grass

Lane Width (existing bridge) 28'-2" overall pavement width; 7'-10"/8'-4" lane widths.

Shoulder width (existing bridge) 53"/61"

Strategic Corridor / Thoroughfare
Designation and Recommended
Cross Section According to NCDOT Functional Class Map, SR 1651 is a local route.
Recommend the 3R Guideline of 10' lane widths and 3' shoulder widths
(6' shoulder widths where guardrail is installed) as a minimum cross section.

Crash History and
Safety Considerations No crashes reported in the vicinity of the bridge from 10/01/2004 to 9/30/2014.

Comments

Reasonable Bridge Speed 60 mph

Bridge #840086 Location Map

