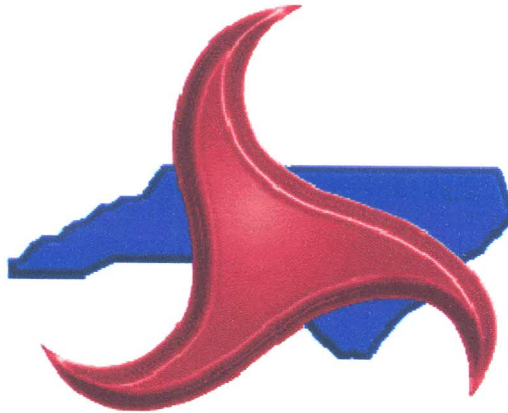


Bridge Design Speed Investigation

Bridge #310 on SR 1348 (Laurel Branch Rd.) over Laurel Branch.
Haywood County



Document Prepared By:

Regional Traffic Office – Blue Ridge Mountains Region
Traffic Safety Unit
Transportation Safety and Mobility
North Carolina Department of Transportation

October 11, 2011



Investigating Engineer

A handwritten signature of Scott M. Collier in black ink, written over a horizontal line.

Scott M. Collier, PE
Regional Traffic Support Engineer

Bridge and Approach Investigation Checklist

Project 17BP.14.PE.1
Description Replace Bridge #310 on SR 1348 over Laurel Branch.
Route SR 1348 (Laurel Branch Rd.)
Division 14
County Haywood

Existing Speed Limit 35-mph ☒ Posted ☐ Statutory

Reasonable & Comfortable
Passenger Car Speed 20-mph

Speed Data No speed data taken due to low ADT and road alignment.

Ball Bank Speed Study The curve just west of the bridge had a Ball Bank = 11 at 20-mph. Most curves near the bridge would have advisory speeds less than 35-mph.

Warning Signs at Bridge Narrow Bridge (symbol), 4 Bridge End Delineators, Weight Limit (15 tons - single vehicle, 21 tons - truck tractor semitrailer).

Roadside Development Residences in the north and south quadrants, Yard with horseshoe pits in the west quadrant and undeveloped in east quadrant.

ADT History 70 (2010)

Pedestrian/Bicycle Traffic Low or none at all.

Bridge and Approach
Digital Photos (attached)

Approach Lane Width 9.25'

Approach Shoulder Width: 5.0'
Shoulder Type grass

Lane Width (existing bridge) 8.25'

Shoulder width (existing bridge) 1.25'

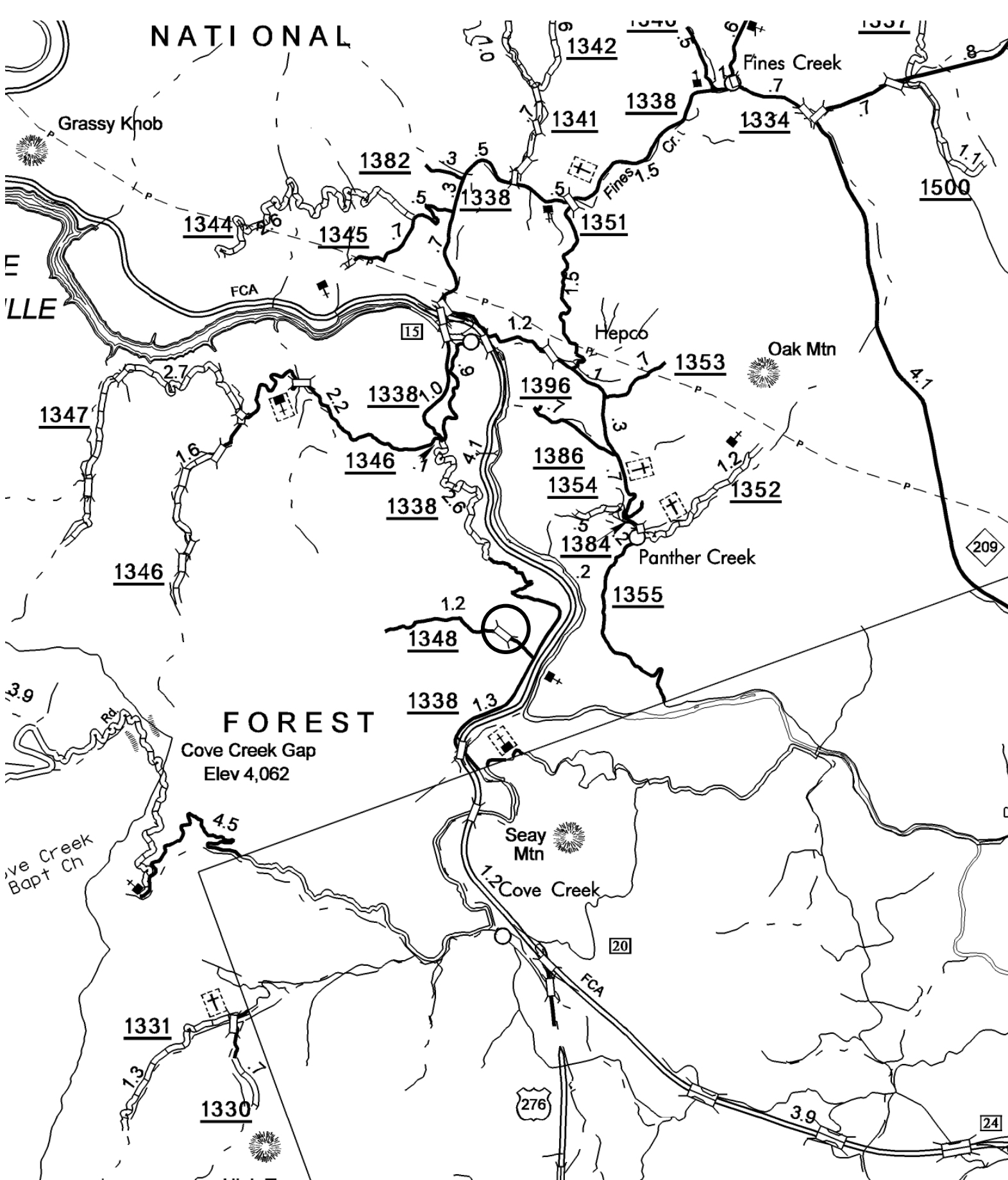
Strategic Corridor / Thoroughfare
Designation and Recommended
Cross Section Not a Strategic Corridor/Thoroughfare. Two-lane cross section below 45-mph based on 3R guidelines.

Crash History and
Safety Considerations No crashes. (8/1/01 - 7/31/11, 10 years)

Comments None.

Reasonable Bridge Speed 35-mph

Investigated by:  Reviewed by: _____



Bridge Approach Speed Crash Analysis Request

Order # 41000015003

500 feet on Both Sides of Bridge Number 310 on Secondary Route 1348 (Laurel Branch Road) over Laurel Branch in Haywood County

Document Prepared By:

Safety Planning Group
Traffic Safety Systems Management Unit
Transportation Mobility and Safety Division
North Carolina Department of Transportation

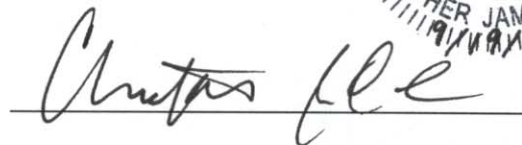
Note: The crash statistics have been generated and are available through North Carolina's Crash Database. This database provides an inventory of **reported** crashes on record that have occurred at this location. Please note that many traffic crashes go unreported for a variety of reasons, and this report simply provides a listing of all crashes on record that occurred within 0 feet of the section described above.

September 19, 2011

Principal Investigator



Alfred D. Oyoyo
Traffic Safety Project Engineer



Christopher J. Oliver, PE
Safety Planning Engineer



**North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Strip Analysis Report**

Study Criteria Summary

County: HAYWOOD **City:** All and Rural
Date: 08/01/2001 **to** 07/31/2011 **Study:** 41000015003
Location: 500 feet on Both Sides of Bridge Number 310 on Secondary Route 1348 (Laurel Branch Road) over Laurel Branch

Report Details

Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
41000015003	41000015003			76.8	8.4	70	40001348

Request Date	Courier Service	Phone No.	Ext.	Fax No.
09/15/2011		828-650-2700		828-650-2698

County			Municipality					
Name	Code	Div.	Name	Code	Y-Line Ft.	Begin Date	End Date	Years
HAYWOOD	43	14	All and Rural		0	08/01/2001	07/31/2011	10.00

Location Text	Requestor
500 feet on Both Sides of Bridge Number 310 on Secondary Route 1348 (Laurel Branch Road) over Laurel Branch	D.D Galloway, PE NCDOT Blue Ridge Mountains Region

Fiche Roads

Name	Code
SR 1348	40001348
LAUREL BRANCH	50017179

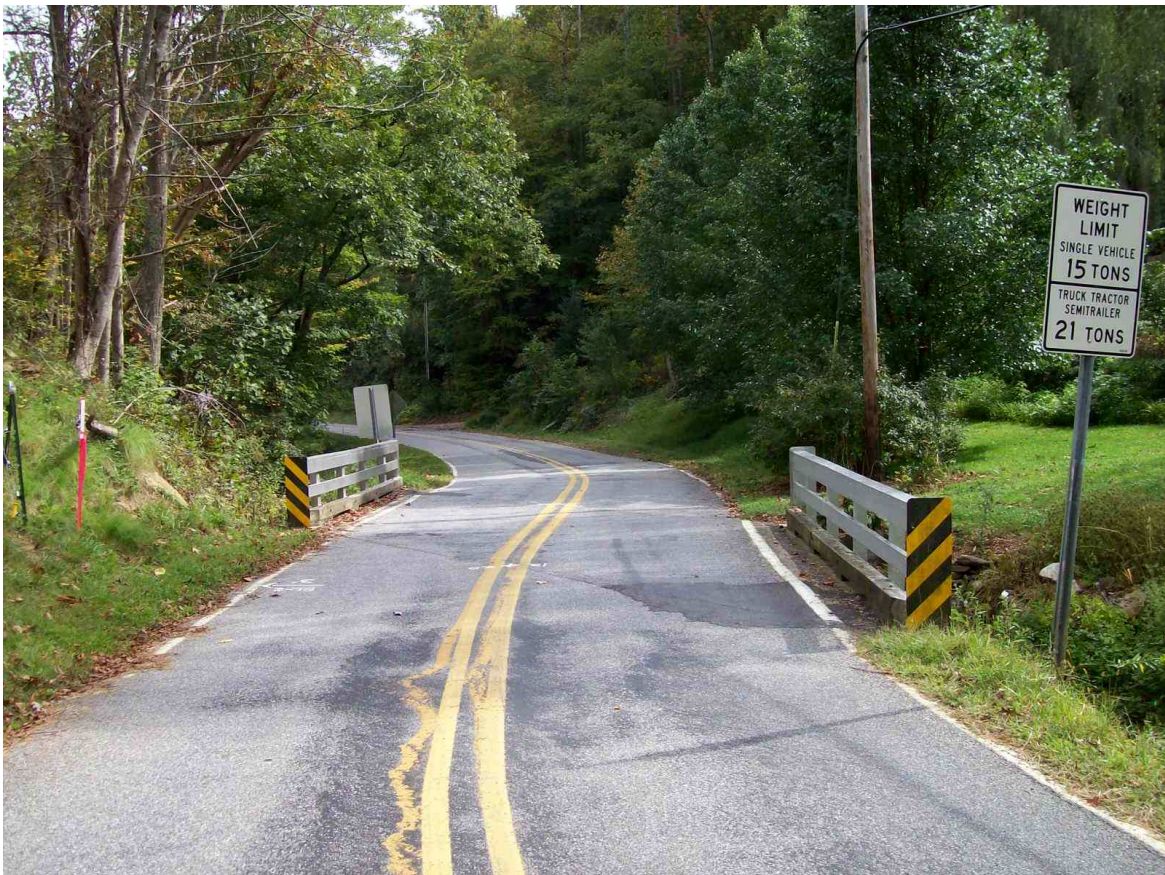
Strip Road

Name	Code	Begin MP	End MP	Miles	Kilometers
SR 1348	40001348	0.190	0.384	0.194	0.312

Bridge #310 on SR 1389, Haywood County



SR 1348, eastbound approach.

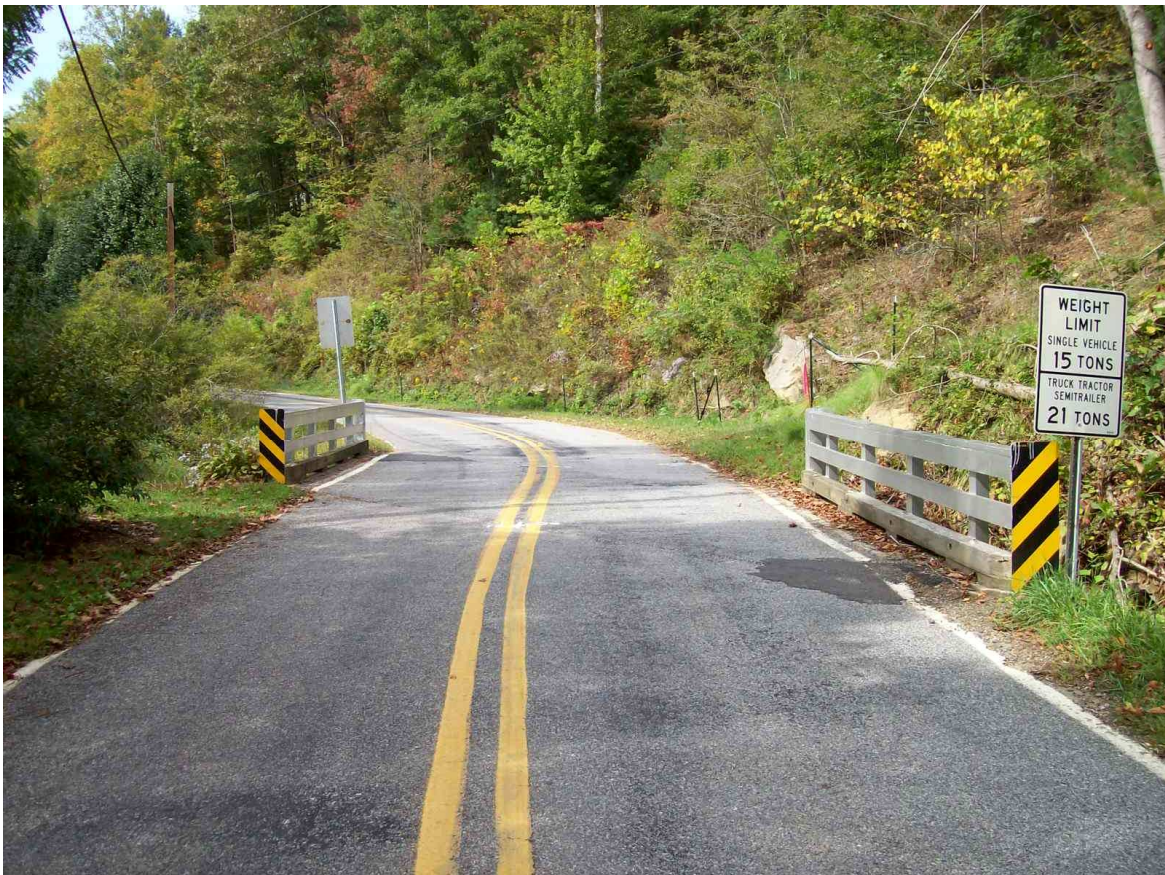


SR 1348, eastbound approach at bridge.

Bridge #310 on SR 1389, Haywood County



SR 1348, westbound approach.



SR 1348, westbound approach at bridge.