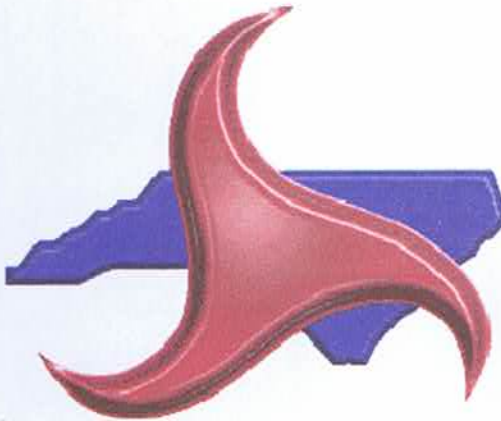


Bridge Design Speed Investigation

010093

Structure #93 on SR 1317 (Linsay Bebbber Road) over Lambert Creek

Alexander County



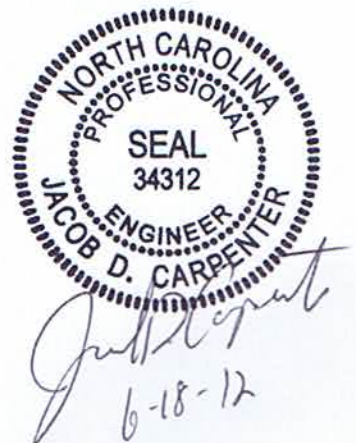
Document Prepared By:

Ramey Kemp & Associates, Inc.
8307 University Executive Park Drive, Suite 260
Charlotte, NC 28262

June 18, 2012

Principal Investigator & Project Manager

Jacob D. Carpenter, PE
Regional Manager



Bridge and Approach Investigation Checklist

Project 17BP.12.R.18

Description Bridge #93 over Lambert Creek

Route SR 1317 (Lindsay Bebbler Road)

Division 12

County Alexander

Existing Speed Limit 55 ☐ Posted ☒ Statutory

Reasonable & Comfortable Passenger Car Speed 25

Speed Data N/A - no traffic during field visit.

Ball Bank Speed Study 20 mph: NB - 9, SB - 9
25 mph: NB - 12, SB - 12 - Bridge speed good at 25 mph per BBI
30 mph: NB - 15, SB - 15

Warning Signs at Bridge 4 Bridge end delineators, 2 Weight limit signs (15 ton SV, 21 ton TTST)
3 No Dumping Allowed signs, 2 Narrow Bridge signs

Roadside Development Wooded, Light Residential

ADT History No ADT data available (gravel road, minimal expected)

Pedestrian/Bicycle Traffic Minimal expected

Bridge and Approach Digital Photos Attached

Approach Lane Width 22 ft unmarked gravel approach

Approach Shoulder Width 0-2 ft grass
Shoulder Type grass

Lane Width (existing bridge) 19 ft unmarked bridge (paved)

Shoulder width (existing bridge) N/A

Strategic Corridor / Thoroughfare Designation and Recommended Cross Section SR 1317 is classified as a rural local facility in the Statewide Functional Classification System. 2-lane cross-section recommended.

Crash History and Safety Considerations Crash analysis completed for 1/1/2002 to 12/31/2011. No collisions reported during study period.

Comments Gravel Road. Comfortable speed estimated at 30-35 mph if road were to be paved. Curve adjacent to bridge.

Reasonable Bridge Speed 25 mph

Investigated by: Jacob D. Carpenter, PE

Reviewed by: 

County: Alexander

Route: SR 1317 (Lindsay Bebber Road)

Date: 3/7/12

Northbound



Northbound

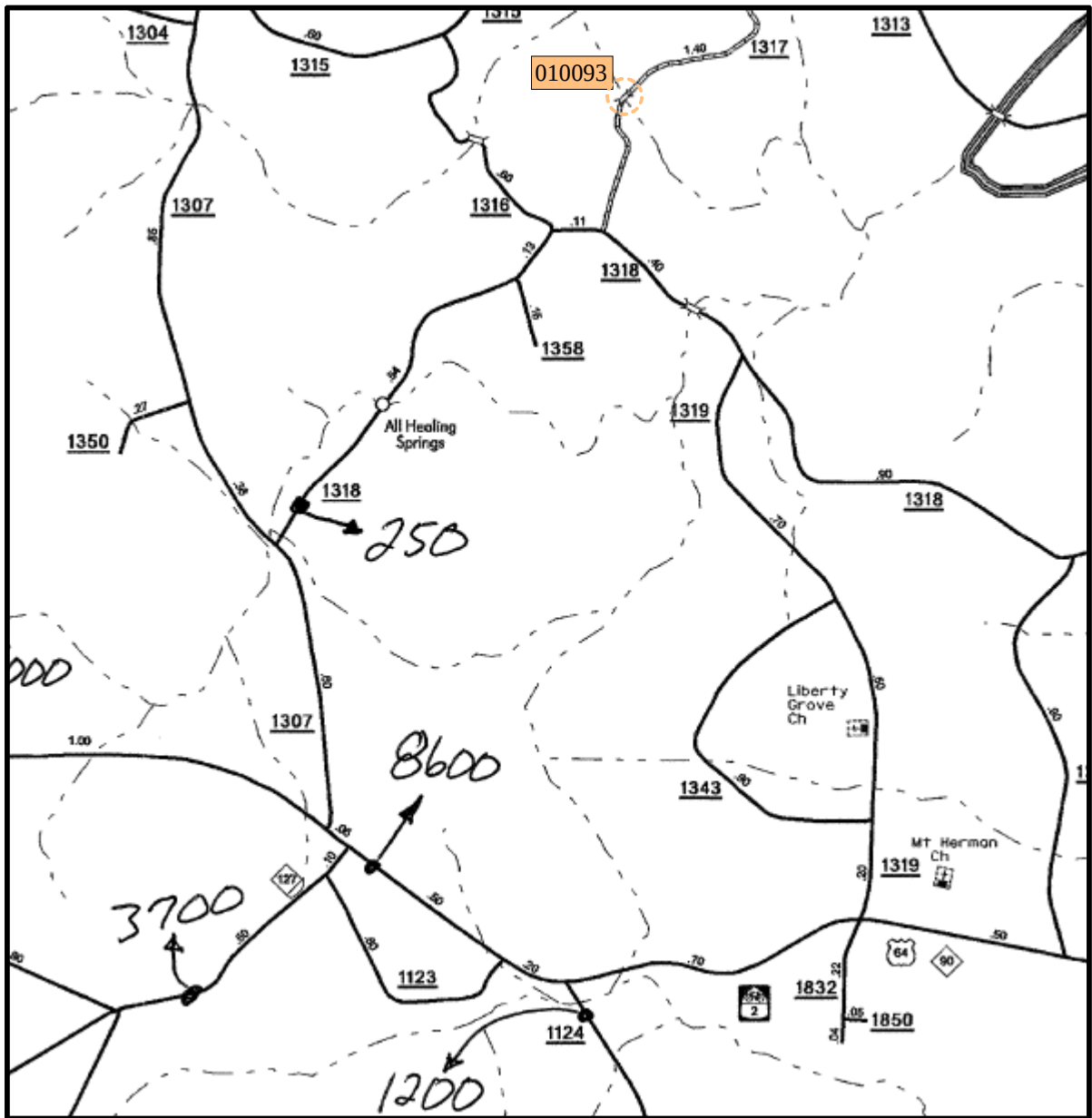


Southbound



Southbound





Bridge Location Map - Bridge #010093

Bridge Approach Speed Crash Analysis Request

Order # 41000018014

500 feet on Both Sides of Bridge Number 93 on Secondary Route 1317 (Lindsay Bebber Road) over Lambert Creek in Alexander 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.

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

Study Criteria Summary

County: ALEXANDER **City:** All and Rural
Date: 01/01/2002 to 12/31/2011 **Study:** 41000018014
Location: 500 feet on Both Sides of Bridge Number 93 on Secondary Route 1317 (Lindsay Bebbber Road) over Lambert Creek

Report Details

Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
41000018014	41000018014			76.8	8.4	60	40001317

Request Date	Courier Service	Phone No.	Ext.	Fax No.
02/23/2012		(704)480-5291		

County			Municipality					
Name	Code	Div.	Name	Code	Y-Line Ft.	Begin Date	End Date	Years
ALEXANDER	1	12	All and Rural		0	01/01/2002	12/31/2011	10.00

Location Text	Requestor
500 feet on Both Sides of Bridge Number 93 on Secondary Route 1317 (Lindsay Bebbber Road) over Lambert Creek	Jimmy Hamrick, PE High Country & Foothills Region Shelby NC

Fiche Roads	
Name	Code
SR 1317	40001317
LINDSAY BEBBER	50017723

Strip Road					
Name	Code	Begin MP	End MP	Miles	Kilometers
SR 1317	40001317	1.025	1.223	0.198	0.319