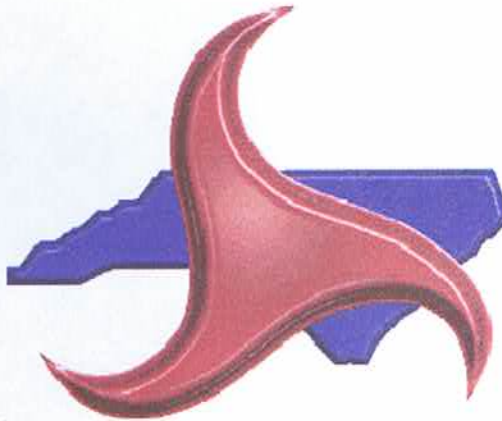


Bridge Design Speed Investigation

820011

Structure #11 on SR 1324 (Snead Town Road) over Jordan's Creek

Scotland County



Document Prepared By:

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

May 18, 2012

Principal Investigator & Project Manager

A handwritten signature in cursive script, reading "Jacob D. Carpenter".

Jacob D. Carpenter, PE
Regional Manager

A handwritten signature in cursive script, reading "Jacob D. Carpenter".
5-18-12

Bridge and Approach Investigation Checklist

Project 17BP.8.R.42

Description Bridge #11 over Jordan's Creek

Route SR 1324 (Snead Town Road)

Division 8

County Scotland

Existing Speed Limit 55 ☐ Posted ☒ Statutory

Reasonable & Comfortable Passenger Car Speed 55

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

Ball Bank Speed Study Bridge speed good at 55 mph per BBI

Warning Signs at Bridge 4 Bridge end delineators, 2 Weight limit signs (12 ton SV, 21 ton TTST)
1 Curve ahead signs (NB), 1 Reverse curve with 35 mph advisory speed (SB)
5 Chevron signs (SB)

Roadside Development Wooded

ADT History 510 vpd (2009) [S of SR 1328], 1300 vpd (2010) [S of SR 1345]

Pedestrian/Bicycle Traffic Minimal expected

Bridge and Approach Digital Photos Attached

Approach Lane Width 9.5 ft S of bridge, 10 ft N of bridge

Approach Shoulder Width 0.5-1.5 ft paved, 6-8 ft+ grass

Shoulder Type paved + grass

Lane Width (existing bridge) 9.5

Shoulder width (existing bridge) 2.5 ft (~24 ft total width)

Strategic Corridor / Thoroughfare Designation and Recommended Cross Section SR 1324 is classified as a local rural facility in the Statewide Functional Classification System. 2-lane cross-section recommended.

Crash History and Safety Considerations Crash analysis completed for 2/1/2002 to 1/31/2012. No collisions reported during study period.

Comments Slight curve south of bridge.

Reasonable Bridge Speed 55 mph

Investigated by: Jacob D. Carpenter, PE

Reviewed by: 

County: Scotland

Route: SR 1324 (Snead Town Road)

Date: 3/15/12

Northbound



Northbound

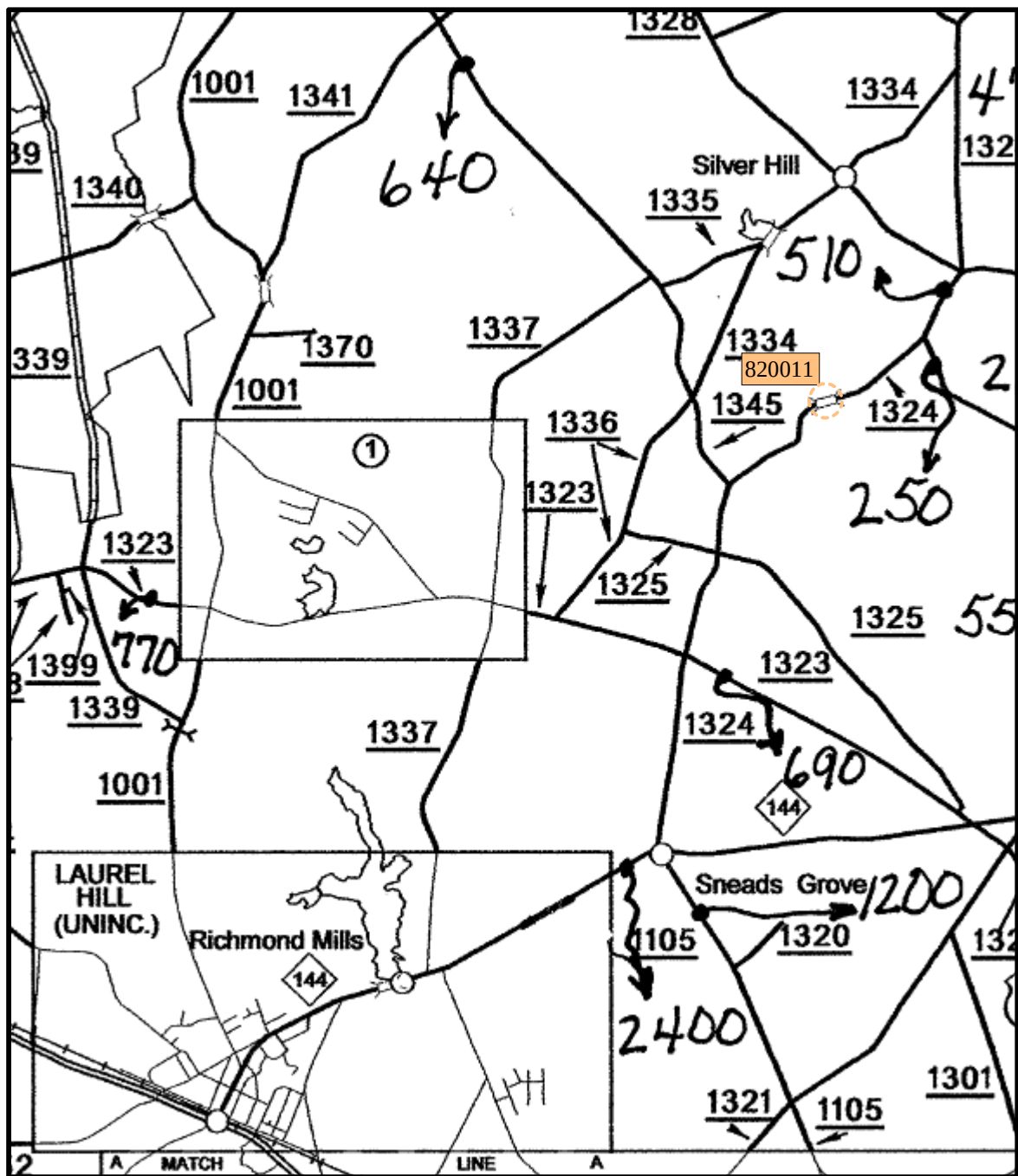


Southbound



Southbound





Bridge Location Map - Bridge #820011

Bridge Approach Speed Crash Analysis Request

Order # 41000018744

**500 feet on Both Sides of Bridge Number 11 on Secondary Route 1324 (Bostic Road) over
Jordan's Creek in Scotland 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: SCOTLAND **City:** All and Rural
Date: 02/01/2002 **to** 01/31/2012 **Study:** 41000018744
Location: 500 feet on Both Sides of Bridge Number 11 on Secondary Route 1324 (Bostic Road) over Jordans Creek

Report Details

Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
41000018744	41000018744			76.8	8.4	920	40001324

Request Date	Courier Service	Phone No.	Ext.	Fax No.
03/01/2012				

County			Municipality					
Name	Code	Div.	Name	Code	Y-Line Ft.	Begin Date	End Date	Years
SCOTLAND	82	8	All and Rural		0	02/01/2002	01/31/2012	10.00

Location Text	Requestor
500 feet on Both Sides of Bridge Number 11 on Secondary Route 1324 (Bostic Road) over Jordans Creek	Kelly Becker, PE NCDOT Capital Region

Fiche Roads	
Name	Code
SR 1324	40001324
BOSTIC	50003281

Strip Road					
Name	Code	Begin MP	End MP	Miles	Kilometers
SR 1324	40001324	2.880	3.076	0.196	0.315