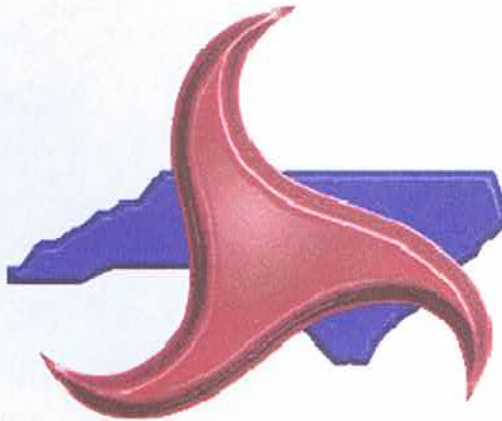


Bridge Design Speed Investigation

760056

Structure #56 on SR 1004 (Hoffman Road) over Drowning Creek

Richmond County

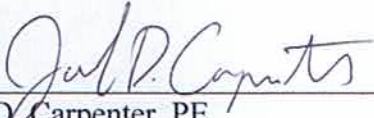


Document Prepared By:

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

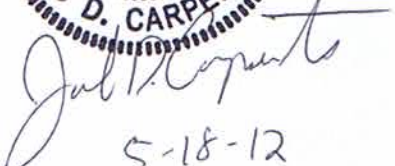
May 18, 2012

Principal Investigator & Project Manager



Jacob D. Carpenter, PE
Regional Manager




5-18-12

Bridge and Approach Investigation Checklist

Project 17BP.8.R.6

Description Bridge #56 over Drowning Creek

Route SR 1004 (Hoffman Road)

Division 8

County Richmond

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 (22 ton SV, 32 ton TTST)
2 Narrow Bridge signs, Reverse Curve sign
2 "Road Subject to Flooding" signs

Roadside Development Wooded

ADT History 350 vpd (2010)

Pedestrian/Bicycle Traffic Minimal expected

Bridge and Approach Digital Photos Attached

Approach Lane Width 8.5 ft S of bridge, 10.5 ft N of bridge

Approach Shoulder Width 1 ft paved + 8 ft+ grass
Shoulder Type paved + grass

Lane Width (existing bridge) 8-9 ft variable

Shoulder width (existing bridge) 1-2 ft variable (~19-20 ft total width)

Strategic Corridor / Thoroughfare Designation and Recommended Cross Section SR 1004 is classified as a minor collector 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 _____

Reasonable Bridge Speed 55

Investigated by: Jacob D. Carpenter, PE

Reviewed by: _____



County: Richmond

Route: SR 1004 (Hoffman Road)

Date: 3/15/12

Northbound



Northbound

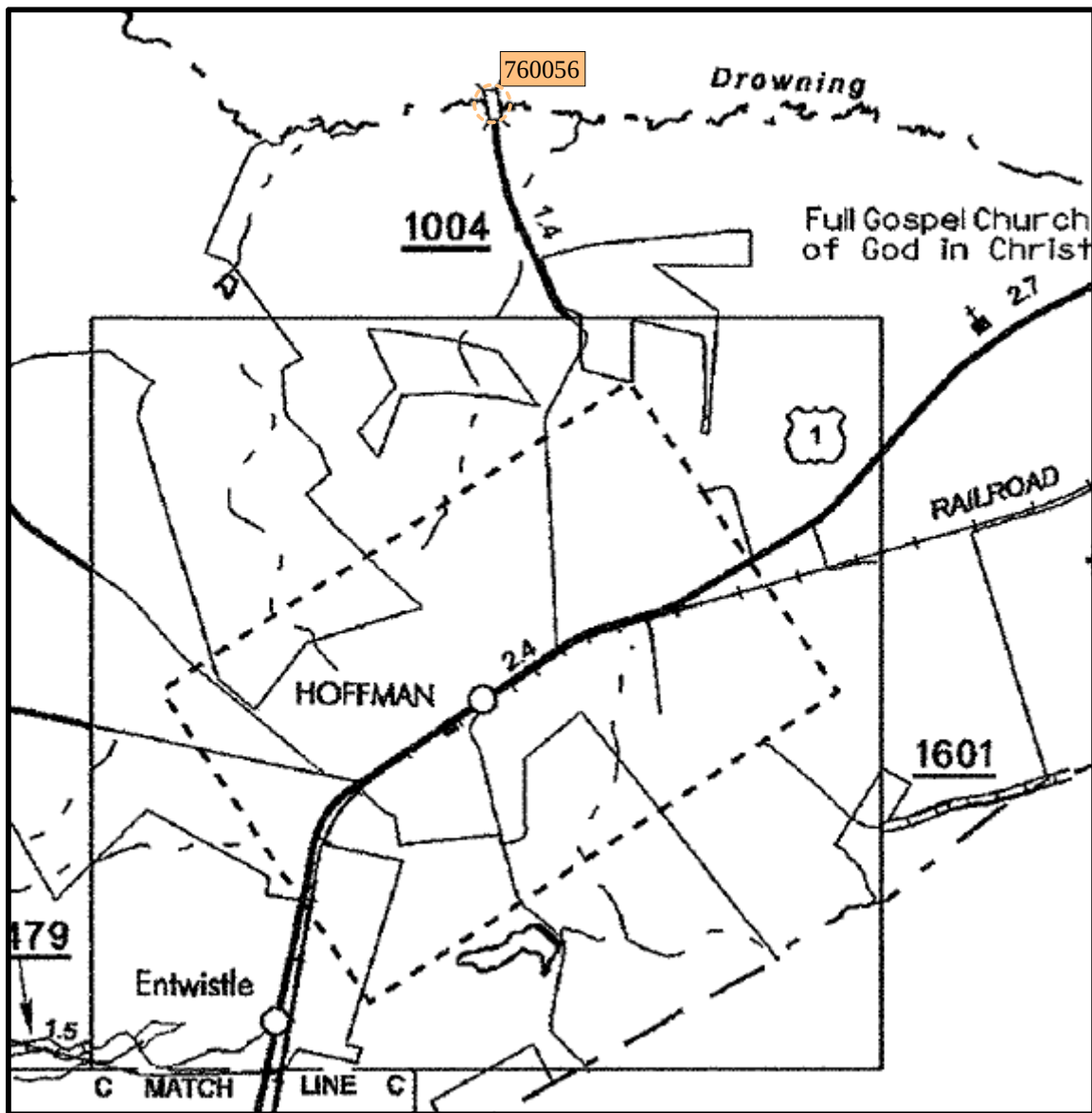


Southbound



Southbound





Bridge Approach Speed Crash Analysis Request

Order # 41000018633

**500 feet on Both Sides of Bridge Number 56 on Secondary Route 1004 (Hoffman Road)
over Drowning Creek in Richmond and Moore 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: RICHMOND **City:** All and Rural
Date: 02/01/2002 **to** 01/31/2012 **Study:** 41000018633
Location: 500 feet on Both Sides of Bridge Number 56 on Secondary Route 1004 (Hoffman Road) over Drowning Creek in Richmond and Moore County

Report Details

Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
41000018633	41000018633			76.8	8.4	1800	40001004

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
RICHMOND	76	8	All and Rural		0	02/01/2002	01/31/2012	10.00

Location Text	Requestor
500 feet on Both Sides of Bridge Number 56 on Secondary Route 1004 (Hoffman Road) over Drowning Creek in Richmond and Moore County	Kelly Becker, PE NCDOT Capital Region

Fiche Roads

Name	Code
I 1	10000001
SR 1004	40001004
BOSTIC	50003281
HOFFMAN	50014140

Strip Road

Name	Code	Begin MP	End MP	Miles	Kilometers
I 1	10000001	2.268	2.472	0.204	0.328