

Bridge Approach Speed Investigation

Bridge # 380130 over Little Johnson Creek on SR 1300 (Cornwall Rd)
Granville County
WBS Element # 17BP.5.R.15



Document Prepared By:

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May 4, 2012

Principal Investigator

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Elizabeth A. Harris, PhD, EI
Traffic Engineer

Project Manager

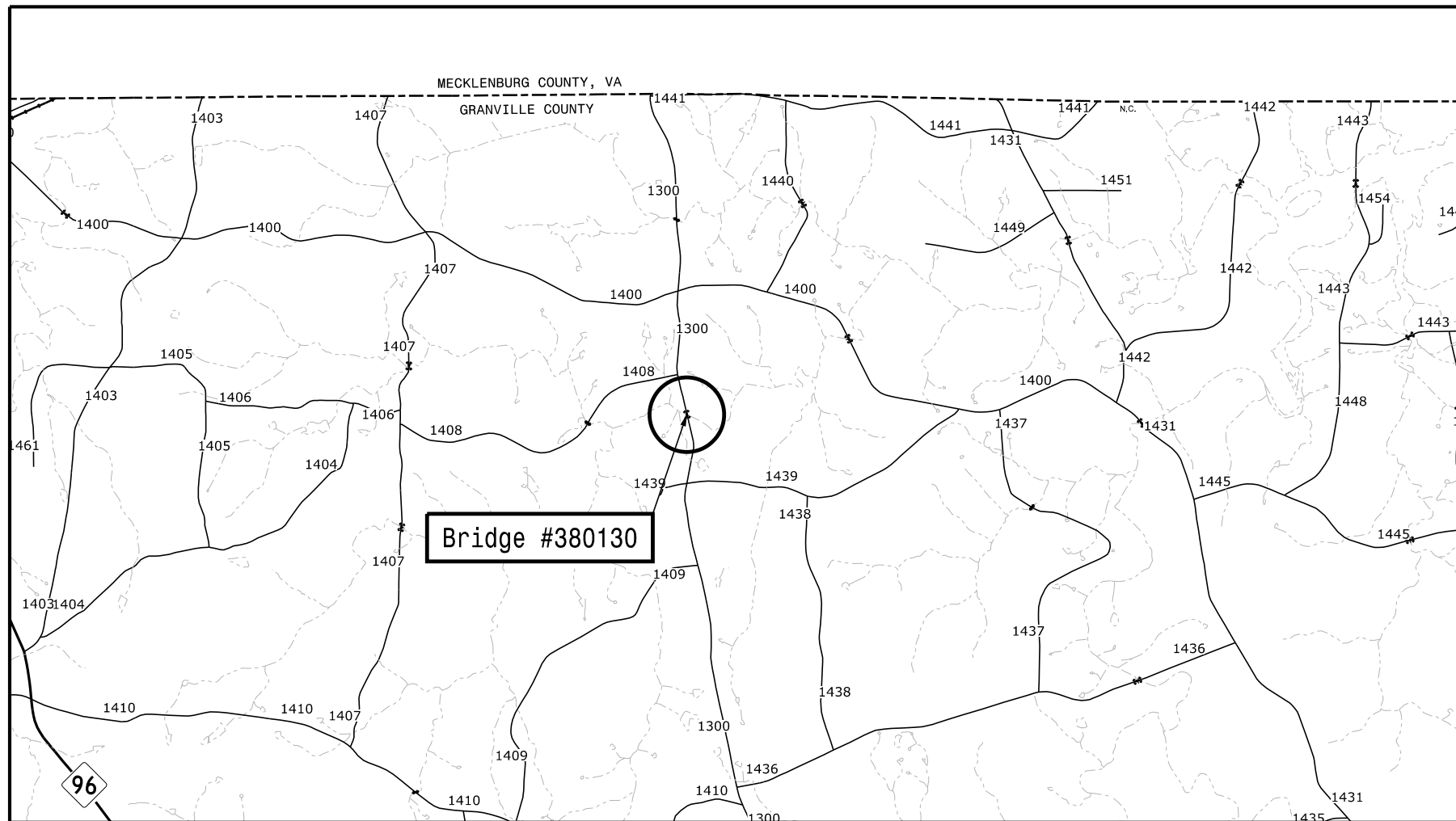
Bradley Reynolds
Bradley A. Reynolds, PE
Project Manager



Division 5 - Granville County

Design Build Year 2 Bridge Program

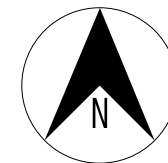
Bridge locations plotted based on coordinates provided by Bridge Management



Division	County	Structure Number	Structure Description	Latitude	Longitude
5	Granville	380130	Bridge #130 over Little Johnson Creek on SR 1300	36.51375248	-78.67116739



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1"=5000'
SCALE

Bridge and Approach Investigation Checklist

Project 17BP.5.R.15

Description Bridge #130 over Little Johnson Creek on SR 1300

Route SR 1300 (Cornwall Rd)

Division 5

County Granville

Existing Speed Limit 55 ☐ Posted ☒ Statutory

Reasonable & Comfortable Passenger Car Speed 55-60 mph

Speed Data N/A

Ball Bank Speed Study No study, bridge in tangent section.

Warning Signs at Bridge Object Markers (OM-3L & OM-3R) - one located at each bridge corner
Weight Limit Signs (Single Vehicle 17 tons, TTST 21 tons) - 1x each Appr.
Side Road (W2-2L) - NB past bridge ± 500'

Roadside Development Rural/Wooded

ADT History 850 vpd from 2009 NCDOT Traffic Survey Map
770 vpd from 2007 NCDOT Traffic Survey Map

Pedestrian/Bicycle Traffic Minimal expected

Bridge and Approach Digital Photos Attached

Approach Lane Width 18' overall pavement width with 9' lanes

Approach Shoulder Width: Varies from 7' to 10'±
Shoulder Type Grass

Lane Width (existing bridge) 24' overall pavement width with 10' lanes

Shoulder width (existing bridge) 2'

Strategic Corridor / Thoroughfare Designation and Recommended Cross Section N/A, NCDOT-designated Minor Collector

Crash History and Safety Considerations Zero reported collisions in a ten-year history (2/1/02 to 1/31/2012).

Comments N/A

Reasonable Bridge Speed 55 mph

Investigated by: Elizabeth Harris, PhD, EI 4/3/12 Reviewed by: Bradley Reynolds, PE

County: Granville

Description: Bridge #130 over Little Johnson Creek

Route: SR 1300

SR 1300 (Cornwall Rd) Northbound $\pm 200'$ from Bridge #130

SR 1300 (Cornwall Rd) Northbound $\pm 50'$ from Bridge #130



SR 1300 (Cornwall Rd) Southbound $\pm 275'$ from Bridge #130



SR 1300 (Cornwall Rd) Southbound $\pm 50'$ from Bridge #130



County: Granville

Description: Bridge #130 over Little Johnson Creek

Route: SR 1300

Northbound view of Bridge #130 structure



Southbound view of Bridge #130 structure



Bridge Approach Speed Crash Analysis Request

Order # 41000018449

**500 feet on Both Sides of Bridge Number 130 on Secondary Route 1300 (Cornwall Road)
over Little Johnson Creek in Granville 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: GRANVILLE **City:** All and Rural
Date: 02/01/2002 **to** 01/31/2012 **Study:** 41000018449
Location: 500 feet on Both Sides of Bridge Number 130 on Secondary Route 1300 (Cornwall Road) over Little Johnson Creek

Report Details

Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
41000018449	41000018449			76.8	8.4	720	40001300

Request Date	Courier Service	Phone No.	Ext.	Fax No.
03/12/2012		(919)773-2778		

County			Municipality					
Name	Code	Div.	Name	Code	Y-Line Ft.	Begin Date	End Date	Years
GRANVILLE	38	5	All and Rural		0	02/01/2002	01/31/2012	10.00

Location Text	Requestor
500 feet on Both Sides of Bridge Number 130 on Secondary Route 1300 (Cornwall Road) over Little Johnson Creek	Kelly L. Becker, PE Capital Safety Region Raleigh NC

Fiche Roads	
Name	Code
SR 1300	40001300
CORNWALL	50006970

Strip Road					
Name	Code	Begin MP	End MP	Miles	Kilometers
SR 1300	40001300	1.835	2.049	0.214	0.344