

PREDESIGN/PRESURVEY REPORT

County: DAVIDSON

Project No.:

TIP No.:

Let Date:

WBS No.:

Bridge No.: 280471

Road No.: SR2416 Old Hwy 109

Stream: CREEK

Type of Request: TIP

Date: 10/21/2014

Name: SMQ

Assigned to:

Checked by:

Prior Survey Date (attach copy of prior survey): N/A

Study by Scour Section: Attached

Flood Zone: NO

Detail Study: N/A

Date: 03/16/09

Panel No.: 6760

BM Info:

Quad Map: Denton NW

Drainage Area: 2.91 SQ MI

From: Strm Stat Region 1 RURAL

Q25: 1026
CFS

Q50: 1255
CFS

Q100: 1464
CFS

Method: USGS SI Report 2009-5158

EXISTING BRIDGE INFORMATION

Location: 0.2 MI. S. JCT. SR2322

Average Daily Traffic: 530 2012 YEAR

Length: 41 FEET

Bed-to-Crown: 9 FEET

Water Depth: 1 FEET

Type of Structure: TIMBER DECK ON I-BEAMS

Type of Span(s): 1@40'6"

Upstream Structure: N/A

Location:

Bed-to-Crown:

Prior Survey:

Downstream Structure: 280222

Location: 0.1 MI. W. JCT. SR2416

Bed-to-Crown: 10 FEET

Prior Survey: 02/98

SCS Watershed:

ENVIRONMENTAL

Trout Stream: No

Anadromous Fish:

Primary Nursery Area: No

High Quality Waters: No

Nutrient Sensitive Waters: No

Near Water Supply Intake: No

CAMA County: No

Stream Classification: C: Aquatic Life, Secondary Recreation, Fresh Water

Notes: None

DENR River Basin Info: Yadkin/Pee-Dee

MAINTENANCE COORDINATION	
---	--

Bridge Maintenance – Contact Superintendent and Supervisor.

High Water:

Relocation:

New Alignment Staked:

BM Information:

Road Maintenance – Contact District Engineer and County Maintenance Engineer.

High Water:

Road to be Paved:

Relocation of Vicinity of Bridge:

New Alignment Staked:

BM Information:

Initiated as:

Date Initiated:

Man-days Estimated:

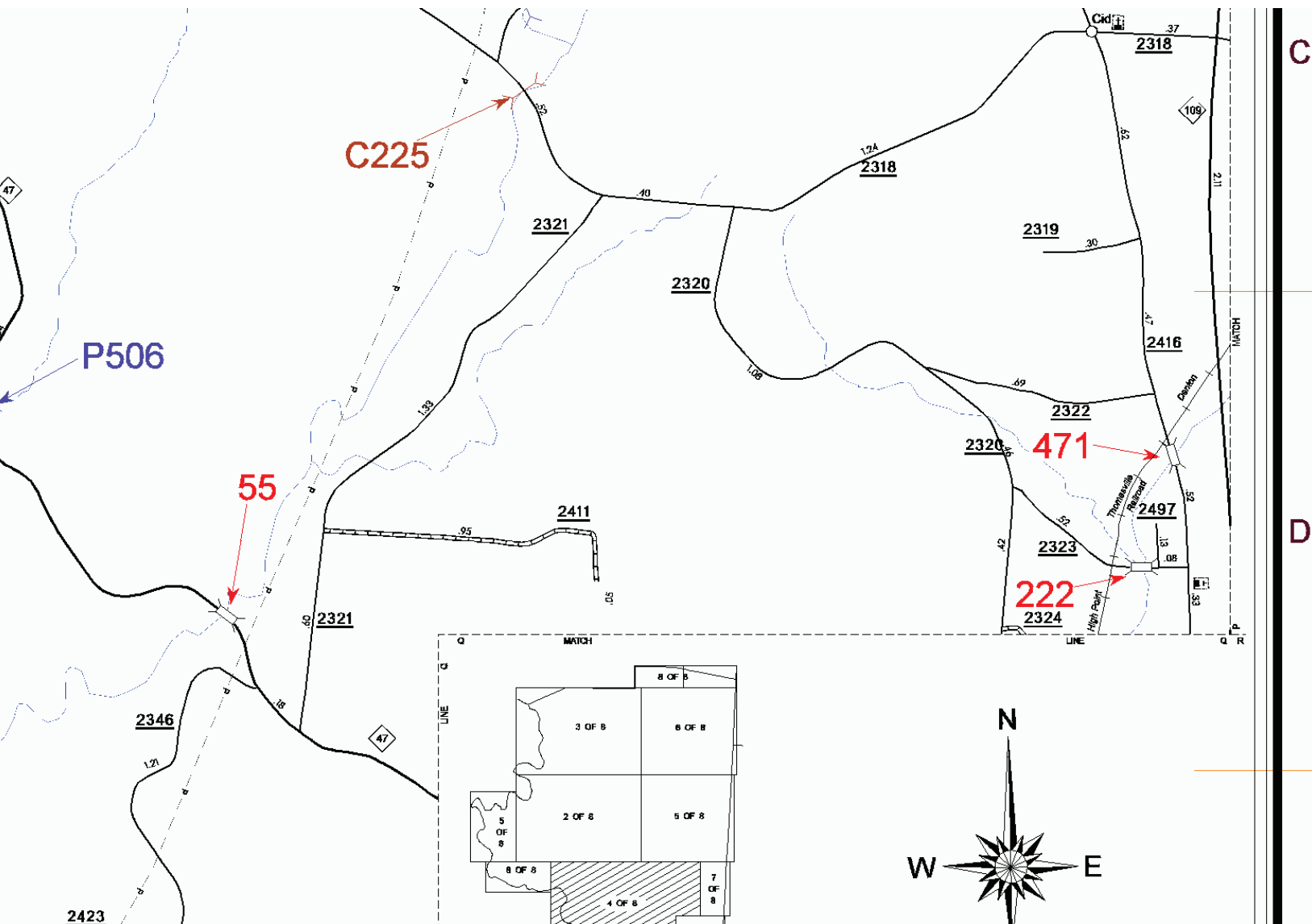
Date Surveyed:

Date Completed:

Personnel

Hours

Pay Period**Comments:**





NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

CHANGE TO STRUCTURE DATA

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY DAVIDSON BRIDGE NUMBER 280471 INSPECTION CYCLE 2 YRS
ROUTE SR2416 ACROSS CREEK M.P. 0

LOCATION 0.2 MI. S. JCT. SR2322

SUPERSTRUCTURE TIMBER DECK ON I-BEAMS (CONTINUOUS)

SUBSTRUCTURE ABUTMENTS:MASS CONCRETE,INT.BENT:TIMBER CAP,POSTS & SILL

1@40'6"

SPANS 1@24'3, 1@16'3 (CONTINUOUS)

LONGITUDE 80° 6' 5.99"

LATITUDE 35° 41' 36.74"

INSPECTION DATE 02/27/2014

PRESENT CONDITION FAIR

PRESENT POSTING SV 16 TTST 19 SV 17 TTST 21 PROPOSED POSTING

OTHER SIGNS PRESENT (4) DELINEATORS (2) NARROW BRIDGE



LOOKING NORTH

Fracture Critical	<u>No</u>
Temporary Shoring	<u>No</u>
Scour Critical	<u>No</u>
Scour POA	<u>Yes</u>

SIGN NOTICE ISSUED FOR		NUMBERED REQUIRED
<u>No</u>	WEIGHT LIMIT	
<u>No</u>	DELINEATORS	
<u>No</u>	NARROW BRIDGE	
<u>No</u>	ONE LANE BRIDGE	
<u>No</u>	LOW CLEARANCE	

NATIONAL BRIDGE INVENTORY----- STRUCTURE INVENTORY AND APPRAISAL

Run Date: 03/19/2014

IDENTIFICATION							
(1) STATE NAME -NORTH CAROLINA	BRIDGE	280471		SUFFICIENCY RATING =		42.14	
(8) STRUCTURE NUMBER(FEDERAL)		00000000570471		STATUS =	Functionally Obsolete		
(5) INVENTORY ROUTE (ON/UNDER) - ON		31024160					
(2) STATE HIGHWAY DEPARTMENT DISTRICT		1		CLASSIFICATION			CODE
(3) COUNTY CODE 57	(4) PLACE CODE	0		(112)NBIS BRIDGE SYSTEM -			YES
(6) FEATURE INTERSECTED - CREEK				(104)HIGHWAY SYSTEM	Is not on NHS		0
(7) FACILITY CARRIED SR2416				(26) FUNCTIONAL CLASS -	Local		09
(9) LOCATION 0.2 MI. S. JCT. SR2322				(100)STRAHNET HIGHWAY -	Not a STRAHNET Route		0
(11)MILEPOINT		0		(101)PARALLEL STRUCTURE -	No Parallel Structure		N
(16)LAT 35° 41' 36.74"	(17)LONG 80° 6' 5.99"			(102)DIRECTION OF TRAFFIC -	2-way Traffic		2
(98)BORDER BRIDGE STATE CODE	PCT SHARE			(103)TEMPORARY STRUCTURE -			
(99)BORDER BRIDGE STRUCTURE NO				(110)DESIGNATED NATIONAL NETWORK -	Not on the National Network		0
				(20) TOLL	On Free Road		3
STRUCTURE TYPE AND MATERIAL				(31) MAINTAIN -	State Highway Agency		01
(43) STRUCTURE TYPE MAIN: Steel				(22) OWNER -	State Highway Agency		01
TYPE - Stringer Multibeam or Girder	CODE	302		(37) HISTORICAL SIGNIFICANCE -	Not Eligible		5
(44) STRUCTURE TYPE APPR :				CONDITION			
TYPE -	CODE	000		(58) DECK			7
(45) NUMBER OF SPANS IN MAIN UNIT		1		(59) SUPERSTRUCTURE			7
(46) NUMBER OF APPROACH SPANS				(60) SUBSTRUCTURE			5
(107)DECK STRUCTURE TYPE - 8	CODE			(61) CHANNEL & CHANNEL PROTECTION			5
(108)WEARING SURFACE / PROTECTIVE SYSTEM :				(62) CULVERTS			N
(A) TYPE OF WEARING SURFACE -	CODE			LOAD RATING AND POSTING			
(B) TYPE OF MEMBRANE -	CODE			(31) DESIGN LOAD	Unknown		0
(C) TYPE OF DECK PROTECTION -	CODE			(63) OPERATING RATING METHOD -	Load Factor		1
				(64) OPERATING RATING -	HS-14		25
(27) YEAR BUILT		1961		(65) INVENTORY RATING METHOD -	Load Factor		1
(106)YEAR RECONSTRUCTED				(66) INVENTORY RATING -	HS-8		15
(42) TYPE OF SERVICE : ON - Highway				(70) BRIDGE POSTING -	Posting Required		0
UNDER - Waterway	CODE	15		(41) STRUCTURE OPEN, POSTED ,OR CLOSED			P
(28) LANES: ON STRUCTURE 2	UNDER STRUCTURE	0		DESCRIPTION -	Posted for Load		
(29) AVERAGE DAILY TRAFFIC		530		APPRAISAL			
(30) YEAR OF ADT 2012	(109) TRUCK ADT PCT	6%		(67) STRUCTURAL EVALUATION			4
(19) BYPASS OR DETOUR LENGTH		1 MI		(68) DECK GEOMETRY			3
GEOMETRIC DATA				(69) UNDERCLEARANCES,VERTI & HORIZ			N
(48) LENGTH OF MAXIMUM SPAN		39 FT		(71) WATERWAY ADEQUACY			7
(49) STRUCTURE LENGTH		41 FT		(72) APPROACH ROADWAY ALIGNMENT			8
(50)CURB OR SIDEWALK: LEFT .333 FT RIGHT .333 FT				(36) TRAFFIC SAFETY FEATURES			0000
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		20.667 FT		(113)SCOUR CRITICAL BRIDGES			U
(52) DECK WIDTH OUT TO OUT		21.625 FT		PROPOSED IMPROVEMENTS			
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)		20 FT		(75) TYPE OF WORK -			CODE
(33) BRIDGE MEDIAN - No Median	CODE	0		(76) LENGTH OF STRUCTURE IMPROVEMENT			
(34) SKEW 10°	(35) STRUCTURE FLARED	0		(94) BRIDGE IMPROVEMENT COST			
(10) INVENTORY ROUTE MIN VERT CLEAR		999.9 FT		(95) ROADWAY IMPROVEMENT COST			
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR		20.667 FT		(96) TOTAL PROJECT COST			
(53) MIN VERT CLEAR OVER BRIDGE RDWY		999.9 FT		(97) YEAR OF IMPROVEMENT COST ESTIMATE			
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad		0 FT		(114)FUTURE ADT 1060	(115) YEAR FUTURE ADT	2025	
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad		000 FT		INSPECTIONS			
(56) MIN LAT UNDERCLEAR LT REF -		000 FT		(90) INSPECTION DATE			02/27/2014
NAVIGATION DATA				(92) CRITICAL FEATURE INSPECTION :		(93) CFI DATE	
(38) NAVIGATION CONTROL - No Navigational Control	CODE	0		A) FRACTURE CRIT DETAIL -	NO	A)	
(111)PIER PROTECTION -	CODE			B) UNDERWATER INSP -	NO	B)	
(39) NAVIGATION VERTICAL CLEARANCE		0		C) OTHER SPECIAL INSP	NO	C)	
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR	FT			SCOUR			
(40) NAVIGATION HORIZONTAL CLEARANCE		0 FT					

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 03/19/2014

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :	
DAVIDSON	9	1	280471	41	FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR2416	CREEK

LOCATED :	BRIDGE NAME :	CITY :
0.2 MI. S. JCT. SR2322		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	530 2012	LT 227 RT 227

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1961	BMU			Unknown

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :		
			TAN	80	ON 2	UNDER	0

NAVIGATION :			HT. CRN. TO BED :		WATER DEPTH :		
VC 0 FT	HC 0 FT		9 FT		1		FT

SUPERSTRUCTURE : TIMBER DECK ON I-BEAMS

SUBSTRUCTURE : ABUTMENTS:MASS CONCRETE

SPANS : 1@40'6"

BEAMS OR GIRDERS : 9 LINES OF W16X45 I-BEAMS @ 2'6 CENTERS

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
4X8 TIM,2.25 AWS		21.625 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
20.667 FT	21.333 FT	LT .333 FT RT .333 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :				
HS-8	HS-14	int.bm	SV 17	TTST 21	DATE	03/29/2012	

SYSTEM :	GREEN LINE ROUTE :
Secondary S.R. Route	N

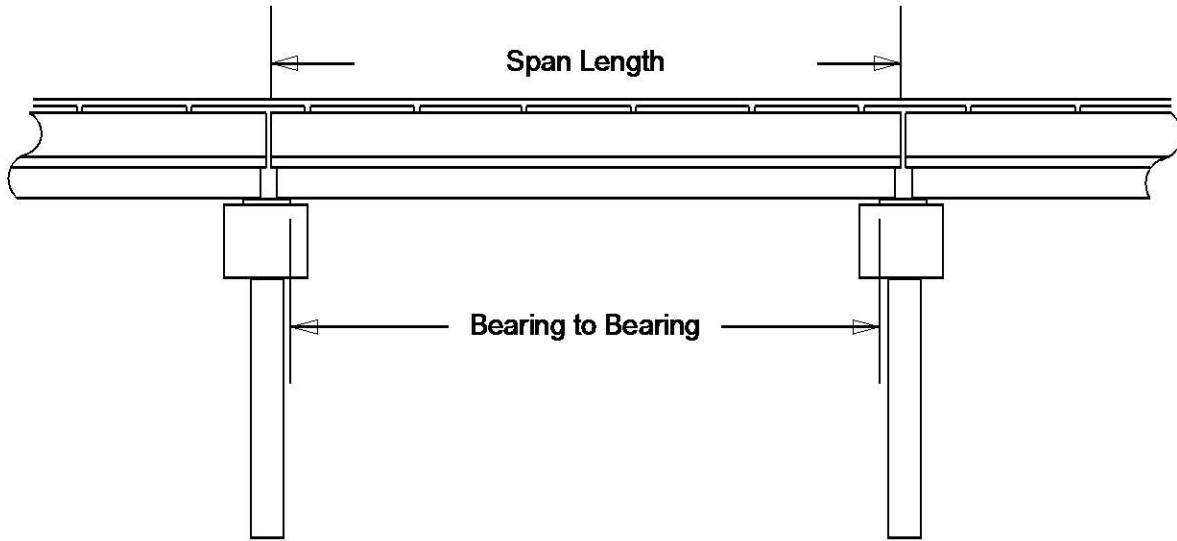
UNDER ROUTES AND CLEARANCES

REMARKS :

Structure Data Worksheet

Spans

County: DAVIDSON Structure No: 280471 Date: 02/27/2014 Inspected By: BTH



Span No	Span Length	Bearing to Bearing	Comments
1	40.5	38.833	NBIS BL: 37.667 FT.

Stream Bed Soundings

(See next sheet for profile sketch)

Bridge No: 280471 County: DAVIDSON Date: 02/27/2014 By: BTH

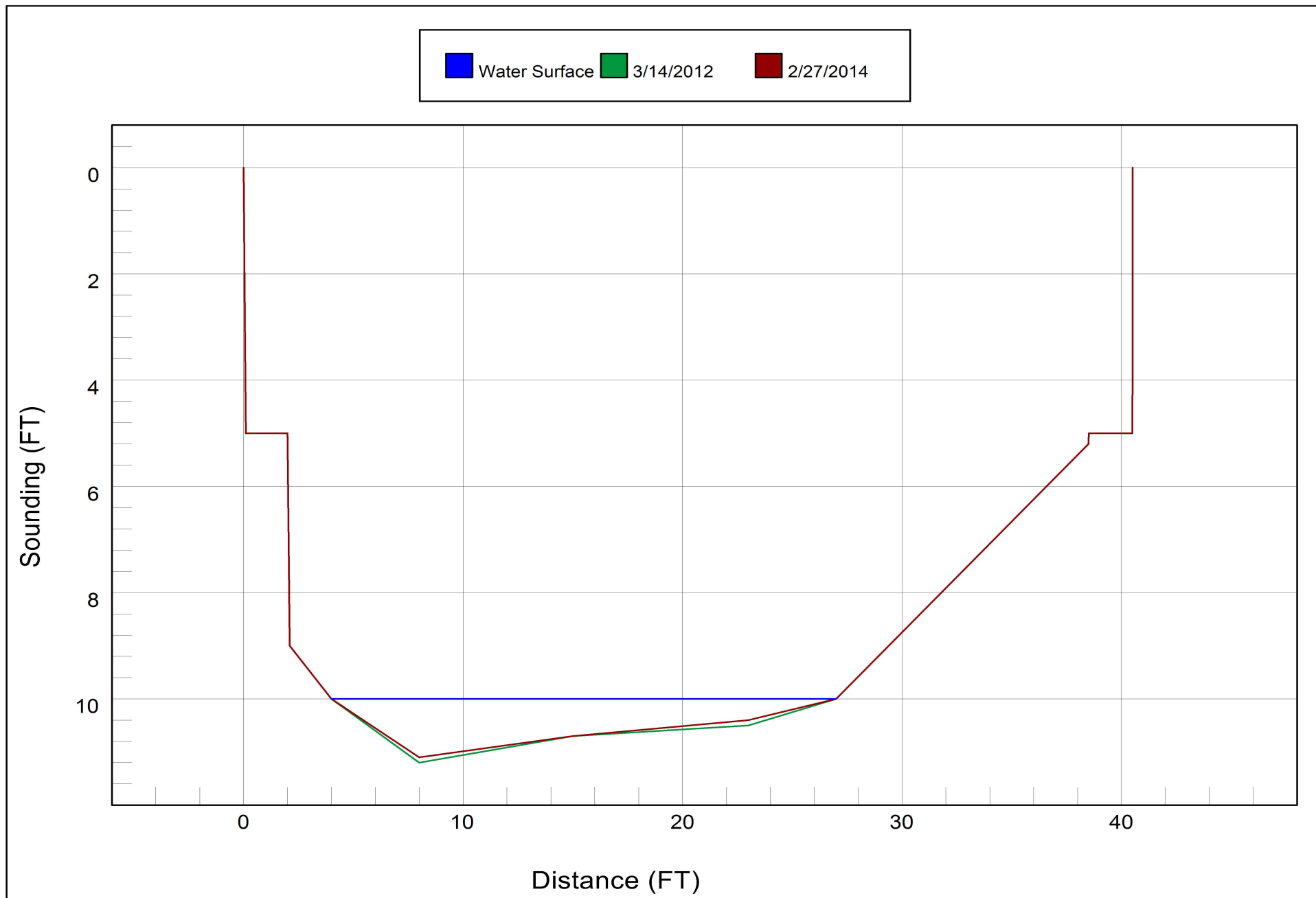
Record sounding from top of rail. Other location if needed: _____

Distance from Highwater Mark to top of rail: _____ Location of Highwater Mark: _____

DOWNSTREAM			UPSTREAM		
Distance (Station) (ft)	Sounding (ft)	Description	Distance (Station) (ft)	Sounding (ft)	Description
0	0	ABUT 1	0	0	ABUT 1
0.1	5				
2	5				
2.1	9		2.1	7.4	
4	10	WS WE			
8	11.1				
15	10.7				
23	10.4				
27	10	WS WE			
38.5	5.2		38.5	8.5	
38.51	5				
40.5	5				
40.51	0	ABUT 2	40.51	0	ABUT 2

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



Bridge Inspection Field Sketch

SR 2416

Roadway	20ft Wide	2 Paved Lanes	Looking North
Left Shoulder	6ft Wide		6ft Unpaved
Right Shoulder	6ft Wide		6ft Unpaved
Left Guardrail			
Right Guardrail			

MEASUREMENTS VERIFIED 2-27-14 JER

Title
APPROACH ROADWAY

Description
SHEET 1

Bridge No: 280471

Drawn By: BTH

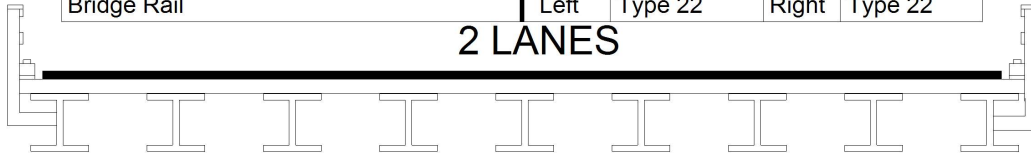
Date: 3/19/2012

File Name: S0090003328

Bridge Inspection Field Sketch

Deck Width/Out to Out	21.625ft	Between Rails				21.333ft
Clear Roadway	20.667 ft	Wearing Surface				0.187ft
Median Width		Median Height				
Curb Height		Left		Right		
Sidewalk Width		Left		Right		
Clear Roadway (Rail to Median)		Left		Right		
Guardrail Width		Left		Right		
Top of Rail to Deck/Wearing Surface		Left	2.375ft	Right	2.375ft	
Bridge Rail		Left	Type 22	Right	Type 22	

2 LANES



Measurements for Span #	1		
Deck Thickness	0.313	Left Overhang	0.875
Top of Rail to Bottom of Beam	5	Right Overhang	0.75

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	2.5ft	
2	Steel I Beam	2.5ft	
3	Steel I Beam	2.5ft	
4	Steel I Beam	2.5ft	
5	Steel I Beam	2.5ft	
6	Steel I Beam	2.5ft	
7	Steel I Beam	2.5ft	
8	Steel I Beam	2.5ft	
9	Steel I Beam		

6 IN.HIGH x 12 IN. WIDE TIMBER CAP BENEATH BEAMS AT ABUTS
ABUTS: SHEAR MASS

BEAMS	WIDTH	FLANGES	WEB	HEIGHT
1-9	7 IN.	7/16 IN.	3/8 IN.	16 IN.

MEASUREMENTS REVISED 2-27-14 JER

Title
SUPERSTRUCTURE

Description
SHEET 2

Bridge No: 280471

Drawn By: BTH

Date: 3/19/2012

File Name: S0090003329



SOUTH NARROW BRIDGE



LOOKING NORTH



SOUTH POSTING



LOOKING EAST



LOOKING WEST



SUPERSTRUCTURE SPAN 1



UPSTREAM



ABUT 1



ABUT 2



DOWNSTREAM



North Carolina StreamStats

Streamstats Ungaged Site Report

Date: Tue Nov 4 2014 08:12:48 Mountain Standard Time

Site Location: North_Carolina

NAD27 Latitude: 35.6934 (35 41 36)

NAD27 Longitude: -80.1019 (-80 06 07)

NAD83 Latitude: 35.6936 (35 41 37)

NAD83 Longitude: -80.1017 (-80 06 06)

Drainage Area: 2.91 mi²

Percent Urban: 12.1 %

Percent Impervious: 1.8 %

Peak Flows Region Grid Basin Characteristics			
100% Peak Southeast US 2009 5158 (2.91 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	2.91	1	9000
Percent Area in Region 1 (percent)	100.000	0	100
Percent Area in Region 2 (percent)	0.000	0	100
Percent Area in Region 3 (percent)	0.000	0	100
Percent Area in Region 4 (percent)	0.000	0	100
Percent Area in Region 5 (percent)	0.000	0	100

Urban Flows Region Grid Basin Characteristics			
100% Peak urban Blue Ridge-Piedmont FS007-00 (2.91 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	2.91	0.04	41
Area of Impervious Surfaces (percent)	1.83 (below min value 2)	2	54.6

Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Peak Flows Region Grid Streamflow Statistics					
Statistic	Flow (ft ³ /s)	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
				Minimum	Maximum
PK2	317	35		182	551
PK5	577	34		334	996
PK10	770	35		438	1350
PK25	1030	38		564	1870
PK50	1250	40		668	2350
PK100	1460	42		754	2840
PK200	1670	44		831	3360
PK500	2000	48		946	4220

Urban Flows Region Grid Streamflow Statistics					
Statistic	Flow (ft ³ /s)	Standard Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
				Minimum	Maximum
PK2U	111				
PK5U	231				
PK10U	335				
PK25U	570				
PK50U	715				
PK100U	875				



This digital Flood Insurance Rate Map (FIRM) was produced through a unique cooperative partnership between the State of North Carolina and the Federal Emergency Management Agency (FEMA). The State of North Carolina has implemented a long term approach to floodplain management to decrease the costs associated with flooding. This is demonstrated by the State's commitment to map flood hazard areas at the local level. As a part of this effort, the State of North Carolina has joined in a Cooperating Technical State agreement with FEMA to produce and maintain this digital FIRM.

FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR ZONE DESCRIPTIONS AND INDEX MAP
THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING
DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT
[HTTP://FRIS.NC.GOV/FRIS](http://FRIS.NC.GOV/FRIS)

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE)
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
		0.2% Annual Chance Flood Hazard, Areas of 1% Annual Chance Flood with Average Depth Less Than One Foot or With Drainage Areas of Less Than One Square Mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee See Notes Zone X
		Areas Determined to be Outside the 0.2% Annual Chance Floodplain Zone X
OTHER AREAS OF FLOOD HAZARD		Channel, Culvert, or Storm Sewer Accredited or Provisionally Accredited Levee, Dike, or Floodwall
OTHER AREAS		Non-accredited Levee, Dike, or Floodwall
GENERAL STRUCTURES		North Carolina Geodetic Survey bench mark
		National Geodetic Survey bench mark
		Contractor Est. NCFMP Survey bench mark
		Cross Sections with 1% Annual Chance Water Surface Elevation (BFE)
		Coastal Transect
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Limit of Study
OTHER FEATURES		Jurisdiction Boundary

NOTES TO USERS

For information and questions about this map, available products associated with this FIRM including historic versions of this FIRM, how to order products or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Map Service Center website at <http://msc.fema.gov>. An accompanying Flood Insurance Study report, Letter of Map Revision (LOMR) or Letter of Map Amendment (LOMA) revising portions of this panel, and digital versions of this FIRM may be available. Visit the North Carolina Floodplain Mapping Program website at <http://www.ncfloodmaps.com> or contact the FEMA Map Service Center.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM index. These may be ordered directly from the Map Service Center at the number listed above.

For community and countywide map dates refer to the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in the community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Base map information shown on this FIRM was provided in digital format by the North Carolina Floodplain Mapping Program (NCFMP). The source of this information can be determined from the metadata available in the digital FLOOD database and in the Technical Support Data Notebook (TSDN).

ACCREDITED LEEVE NOTES TO USERS: If an accredited levee note appears on this panel check with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent-annual-chance level) and Emergency Action Plan, on the levee system(s) shown as providing protection. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and floodproofing or other protective measures. For more information on flood insurance, interested parties should visit the FEMA Website at <http://www.fema.gov/business/nfip/index.shtm>.

PROVISIONALLY ACCREDITED LEEVE NOTES TO USERS: If a Provisionally Accredited Levee (PAL) note appears on this panel, check with your local community to obtain more information, such as the estimated level of protection provided (which may exceed the 1-percent-annual-chance level) and Emergency Action Plan, on the levee system(s) shown as providing protection. To maintain accreditation, the levee owner or community is required to submit the data and documentation necessary to comply with Section 65.10 of the NFIP regulations. If the community or owner does not provide the necessary data and documentation or if the data and documentation provided indicates the levee system does not comply with Section 65.10 requirements, FEMA will revise the flood hazard and risk information for this area to reflect de-accreditation of the levee system. To mitigate flood risk in residual risk areas, property owners and residents are encouraged to consider flood insurance and floodproofing or other protective measures. For more information on flood insurance, interested parties should visit the FEMA Website at <http://www.fema.gov/business/nfip/index.shtm>.

LIMIT OF MODERATE WAVE ACTION NOTES TO USERS: For some coastal flooding zones the AE Zone category has been divided by a Limit of Moderate Wave Action (LIMWA). The LIMWA represents the approximate landward limit of the 1-5-foot breaking wave. The effects of wave hazards between the VE Zone and the LIMWA (or between the shoreline and the LIMWA for areas where VE Zones are not identified) will be similar to, but less severe than those in the VE Zone.

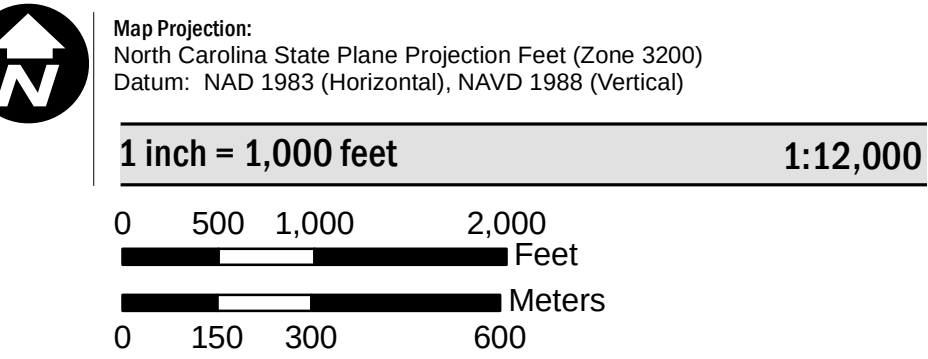
Limit of Moderate Wave Action (LIMWA)

COASTAL BARRIER RESOURCES SYSTEM (CBRS) NOTE

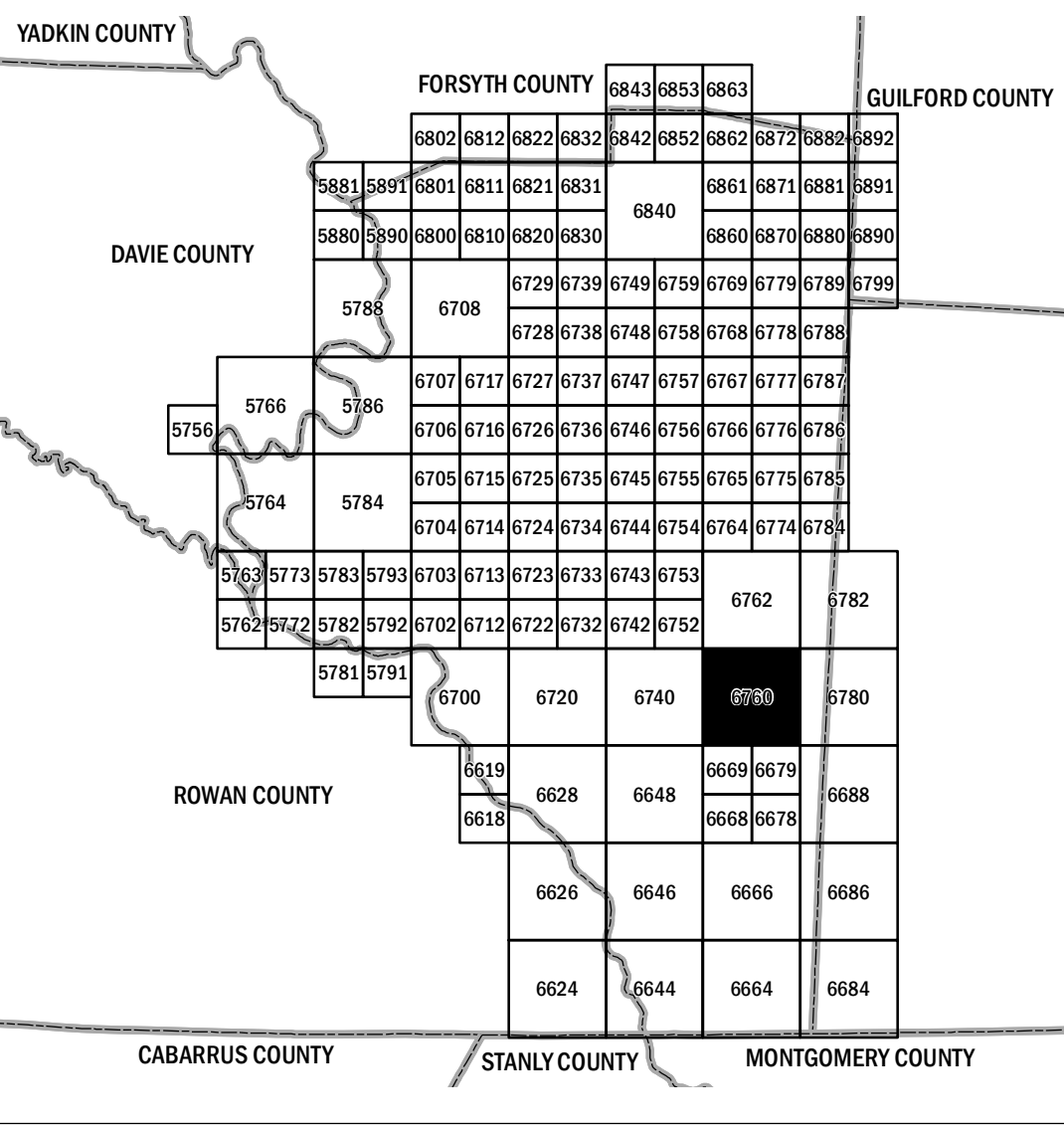
This map may include approximate boundaries of the CBRS for informational purposes only. Flood insurance is not available within CBRS areas for structures that are newly built or substantially improved on or after the date(s) indicated on the map. For more information see http://www.fws.gov/habitatconservation/coastal_barrier.html, the FIS Report, or call the U.S. Fish and Wildlife Service Customer Service Center at 1-800-344-WILD.

CBRS Area Otherwise Protected Area

SCALE



PANEL LOCATOR



National Flood Insurance Program

NORTH CAROLINA FLOODPLAIN MAPPING PROGRAM
NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP

NORTH CAROLINA

PANEL 6760

Panel Contains:

COMMUNITY	CID	PANEL	SUFFIX
DAVIDSON COUNTY	370307	6760	J
DENTON, TOWN OF	370506	6760	J

MAP NUMBER
3710676000J
MAP REVISED
3/16/2009



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

October 29, 2010

MEMORANDUM TO: Mr. Don Idol
Assistant Bridge Inspection Engineer

FROM: Jerry Beard, P.E.
Scour Engineer
Hydraulic Design Unit

SUBJECT: Transmittal of Bridge Scour Assessments

The scour committee has reviewed the available documents for the following bridges and recommends that the following bridges that are coded U in Item 113 have a code R added in the Plan of Action (POA) field. Please have the POA displayed for future inspection guidance:

County	Bridge #	Code	TIP	COMMENT
DAVIDSON	280177	R		
DAVIDSON	280187	R		
DAVIDSON	280460	R		
DAVIDSON	280522	R		
DAVIDSON	280471	R		

Thomasville

Code R:

Bridge with "Unknown Foundation" that has not been evaluated for scour. Bridge has been screened and does not meet the criteria for Code S or Z. A Plan of Action (POA) has been implemented.

POA

- a) Additional work is needed by the Scour Committee.
- b) Monitor bridge foundation during biennial inspection cycle for case 1 or 2.
 - 1 If mud line at any end bent or interior bent scours more than 4 feet then established baseline contact the Hydraulics Unit. Establish a baseline using the 2008-2009 inspection soundings.
 - 2 If footings have greater than 10% of the bearing undermined, contact the Hydraulics Unit.

If you have any questions or comments concerning the above please feel free to contact me at 250-4100.

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
HYDRAULICS UNIT
1590 MAIL SERVICE CENTER
RALEIGH NC 27699-1590

TELEPHONE 919-250-4100
FAX 919-250-4108

WEBSITE:
[HTTP://WWW.NCDOT.ORG/DOH/PRECONSTRUC
T/HIGHWAY/HYDRO/](http://www.ncdot.org/DOH/PRECONSTRUCT/HIGHWAY/HYDRO/)

LOCATION:
CENTURY CENTER COMPLEX
BUILDING B
1020 BIRCH RIDGE DRIVE
RALEIGH NC