

Project#
TIP# B-5888
Let Date
WBS#

PREDESIGN-PRESURVEY REPORT

County Buncombe (Div. 13)

Bridge# 100100
Road# SR 2815
Stream ASHWORTH CRK.

Type Of Request: POC Force Account TIP NCMA

Date 1/22/16 Name Wsh

Assigned To PFF/MTS

Checked By REL

Prior Survey Date NONE (attach copy of prior survey) BRN. NONE CO. NONE
BK. NONE FILE NONE

Study By Scour Section NONE

Flood Zone X Detail Study NONE Date _____ Panel# 9685 

B.M. Info N/A

Quad Map OTEN Drainage Area 6.29 SQ M From STREAM STATS

Q25 =1500 cfs Q50 =1800 cfs Q100 2100 cfs Method REG. EQU.
RURAL / REGION 2

LAT: 35.515802

LONG: 82.396974

EXISTING BRIDGE INFORMATION BUILT: 1956

Location 0.02 M E JCT SR 2806

Average Daily Traffic 420 2011 6% TRK.

Length 42' Bed-To Crown 12' Water Depth 1'

Type Structure TIMBER FLR ON I Beams ABUTS: RC

Type Spans 1c 42

Upstream Structure 100 097

Location 0.05 MI N. JCT US 74 TIMBER FLR ON I Beams 1c 30'6"

Bed-To Crown 10' (1' DEEP) Prior Survey N/A BUILT: 1963

Downstream Structure 100169

Location US 74 ALT. (0.05 M W JCT SR 2815 1c 42'9"

Bed-To Crown 16' 1' DEEP Prior Survey N/A (BUILT: 1922

SCS Watershed N/A (RECONST 1956)

UNDESIGNATED WATER ENVIRONMENTAL

TVA: YES

Trout Stream YES Anadromous Fish NO Primary Nursery Area NO

High Quality Waters NO Nutrient Sensitive Waters NO

Near Water Supply Intake N/A CAMA County NO

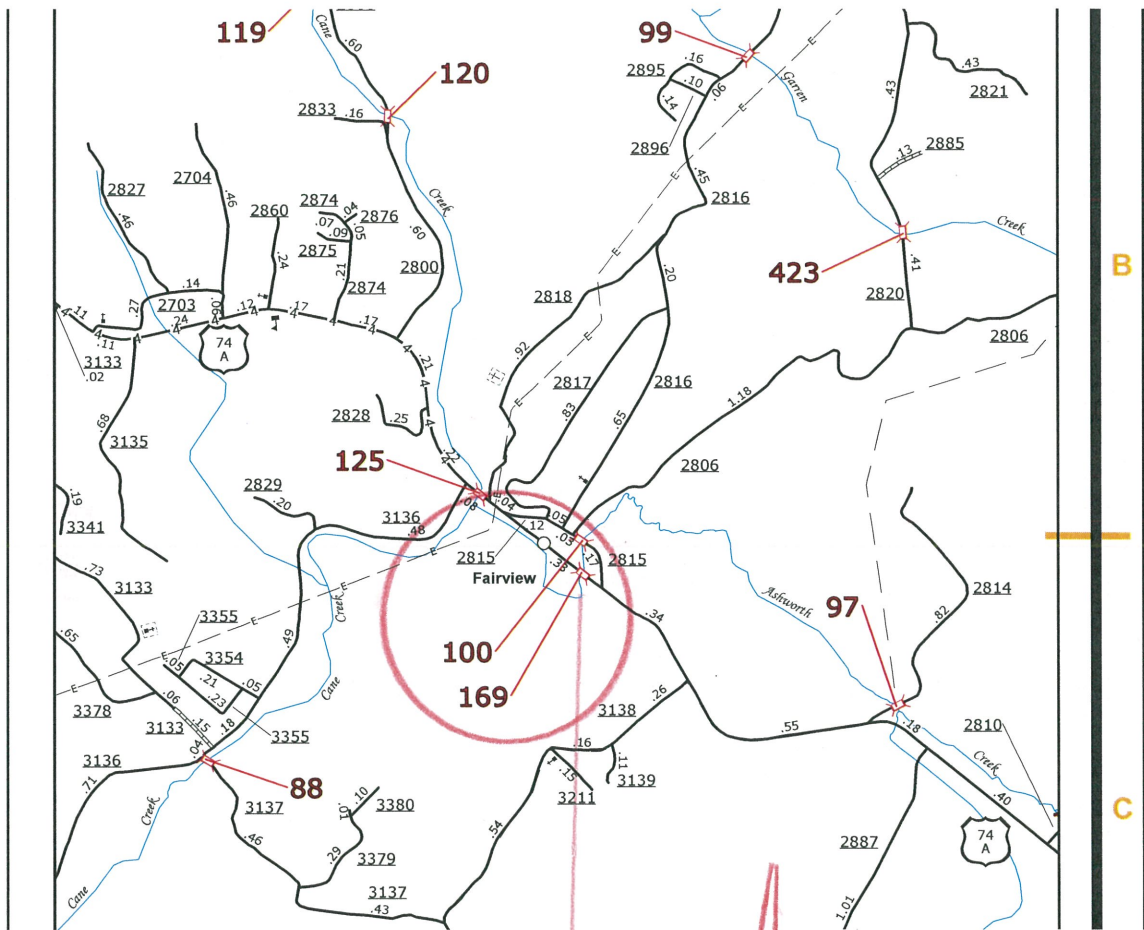
Stream Classification C 6-57-10

DENR River Basin Info. FRENCH BROAD

20
C50

100100

UNTY



B

C

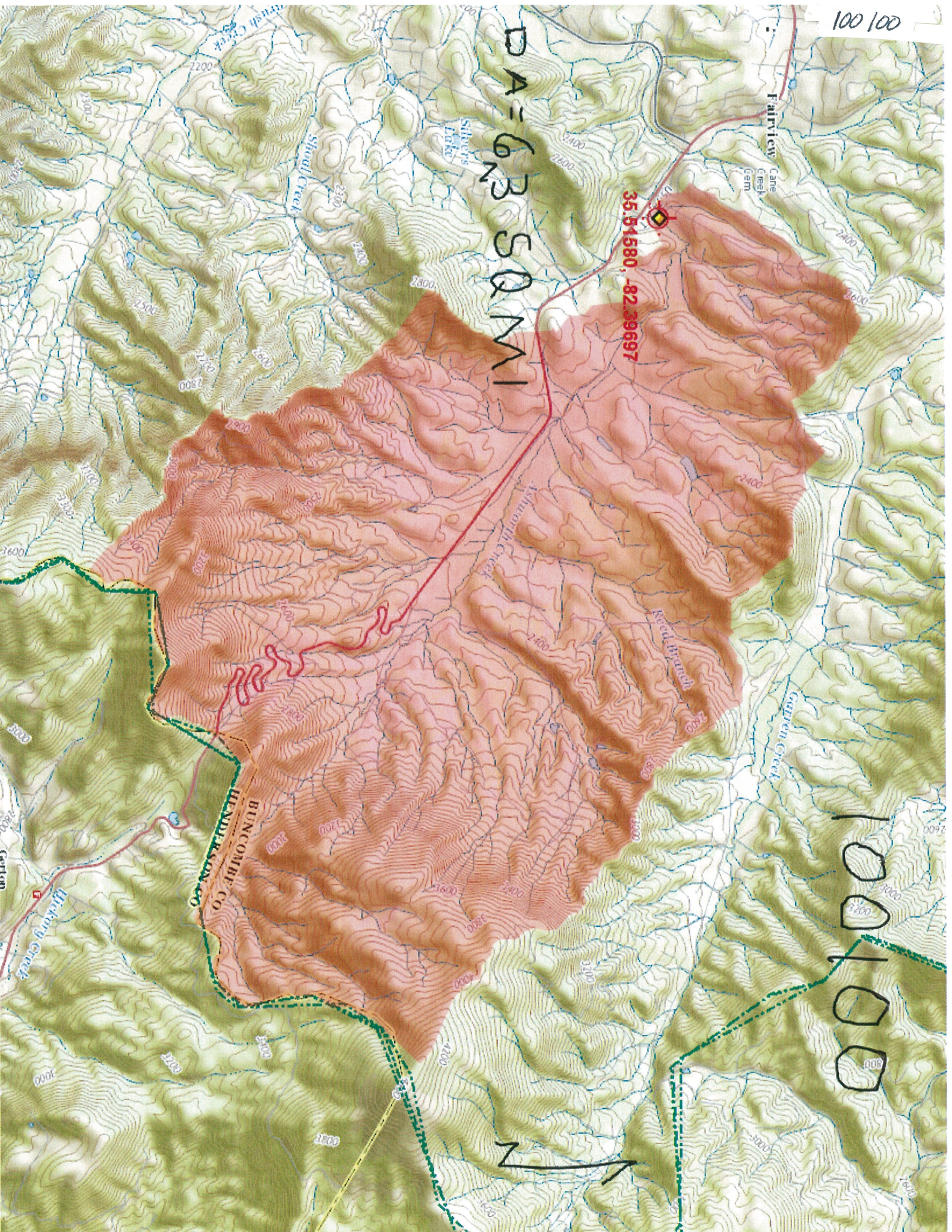
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100100

PA=6350MI

35.51580, -82.39697

100100



100100

StreamStats Version 3.0
Flow Statistics Ungaged Site Report

Date: Fri Jan 22, 2016 8:23:27 AM GMT-5

Study Area: North Carolina

NAD 1983 Latitude: 35.5159 (35 30 57)

NAD 1983 Longitude: -82.3969 (-82 23 49)

Drainage Area: 6.29 mi²

Peak Flows Region Grid Basin Characteristics			
100% Peak Southeast US over 1 sqmi 2009 5158 (6.29 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	6.29	1	9000
Percent Area in Region 1 (percent)	0.000	0	100
Percent Area in Region 2 (percent)	100.000	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			
Area in square miles=6.29			
Percent imperviousness of basin area 2006 NLCD=0.42			
Percentage of impervious area determined from NLCD 2011 impervious dataset=0.42			
100% Region 2 Urban Blue Ridge FS007-00 (6.29 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	6.29	0.04	41
Percent Impervious NLCD2011 (percent)	0.42 (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 Statistics						
Statistic	Value	Unit	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
					Min	Max
PK2	459	ft ³ /s	35		263	803
PK5	828	ft ³ /s	34		477	1440
PK10	1120	ft ³ /s	35		631	1970
PK25	1510	ft ³ /s	38		821	2770
PK50	1790	ft ³ /s	40		945	3400
PK100	2140	ft ³ /s	42		1090	4190
PK200	2430	ft ³ /s	44		1200	4950
PK500	2900	ft ³ /s	48		1350	6200

<http://pubs.usgs.gov/sir/2009/5158/> (<http://pubs.usgs.gov/sir/2009/5158/>)

Weaver, J.C., Feaster, T.D., and Gotvald, A.J., 2009. Magnitude and frequency of rural floods in the Southeastern United States through 2006—Volume 2. North Carolina: U.S. Geological Survey Scientific Investigations Report 2009-5158. 111 p.



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

100100

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY BUNCOMBE BRIDGE NUMBER 100100 INSPECTION CYCLE 2 YRS
ROUTE SR2815 ACROSS ASHWORTH CREEK M.P. 0

LOCATION .02 MI.E.JCT.SR2806

SUPERSTRUCTURE TIMBER FLOOR ON I-BEAMS

SUBSTRUCTURE ABUTS:REINFORCED CONC.

SPANS 1 @ 42'

LONGITUDE 82° 23' 49.38"

LATITUDE 35° 30' 56.91"

PRESENT CONDITION FAIR

INVENTORY RATING

INSPECTION DATE 11/06/2012

OPERATING RATING

PRESENT POSTING SV 17 TTST 21

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT DELINEATORS (4)



EAST

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

100100

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 11/28/2012

COUNTY : BUNCOMBE DIVISION : 13 DISTRICT : 2 STRUCTURE NUMBER : 100100 LENGTH : 42 FEET

ROUTE CARRIED : SR2815 FEATURE INTERSECTED : ASHWORTH CREEK

LOCATED : .02 MI.E.JCT.SR2806 BRIDGE NAME : CITY :

FUNC. CLASS : 09 SYST.ON : NFA SYST.UNDER : NFA ADT & YR : 420 2011 RAIL TYPE : LT 227 RT 227

BUILT : 1956 BY : BMU PROJ : FED.AID PROJ : DESIGN LOAD : Unknown

REHAB : BY : BMU PROJ : ALIGNMENT : TAN SKEW : 90 LANES : ON 2 UNDER 0

NAVIGATION : VC 0 FT HC 0 FT HT. CRN. TO BED : 12 FT WATER DEPTH : 1 FT

SUPERSTRUCTURE : TIMBER FLOOR ON I-BEAMS

SUBSTRUCTURE : ABUTS:REINFORCED CONC.

SPANS : 1 @ 42'

BEAMS OR GIRDERS : 9 LINES 18 I-BEAMS @ VAR.CTS.

FLOOR : 4X8 TIM/3.5 AWS ENCROACHMENT : DECK (OUT TO OUT) : 21.25 FT

CLEAR ROADWAY : 20.25 FT BETWEEN RAILS : 20.917 FT SIDEWALK OR CURB : LT .3 FT RT .3 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS-1 OPE.RTG. : HS-1 CONTR.MEMBER : Int.bms POSTED : SV 17 TTST 21 DATE 10/27/2008

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

UNDER ROUTES AND CLEARANCES

REMARKS :

100100

Structure 100100

County BUNCOMBE

Date: 11/06/2012

Structure Photos



DOWN STREAM SOUTH



UP STREAM NORTH

100100

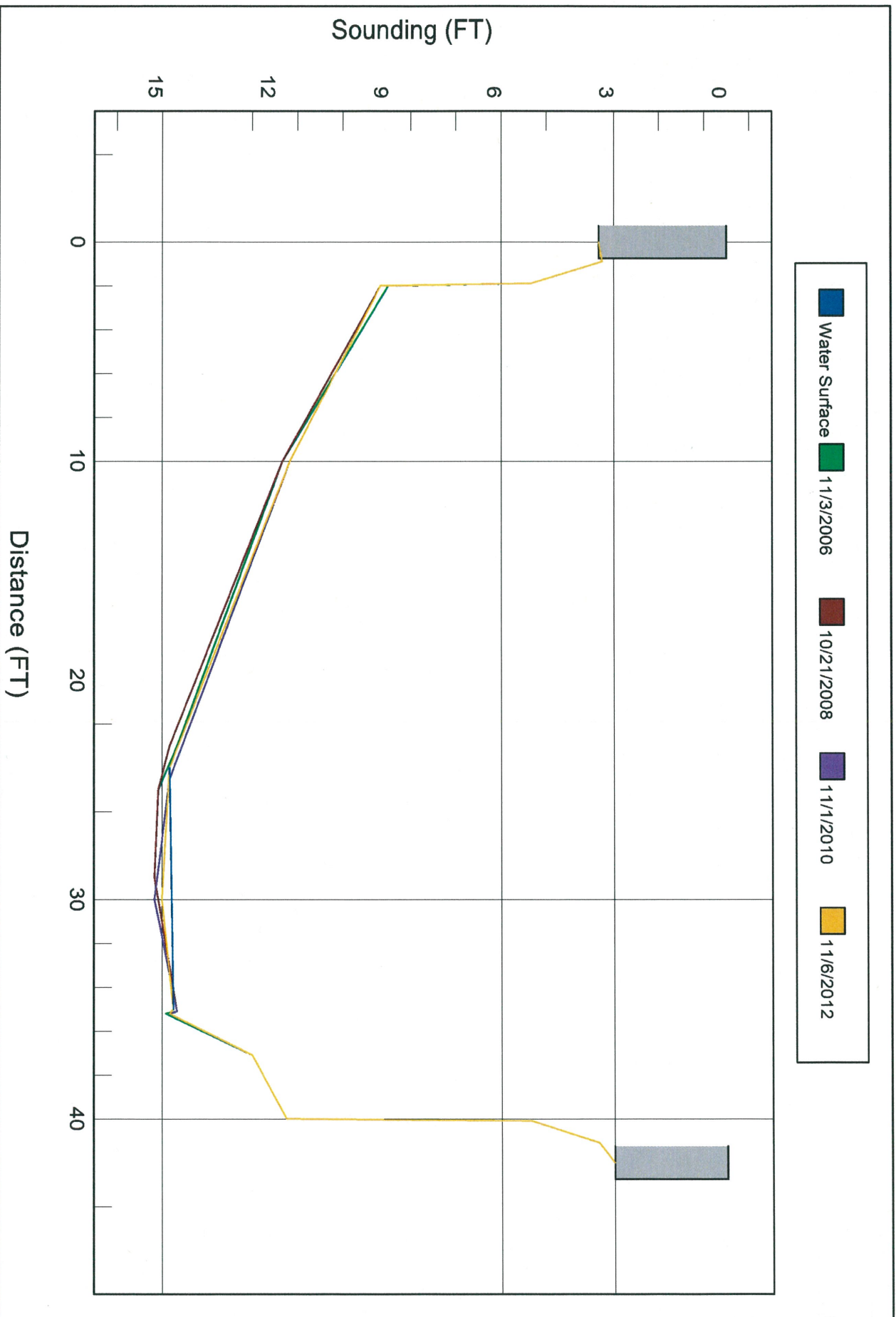
Bridge: 100100

County BUNCOMBE

Date: 11/06/2012

Top of Rail = 0 FT (Sounding)

STREAMBED PROFILE (Downstream)



100100

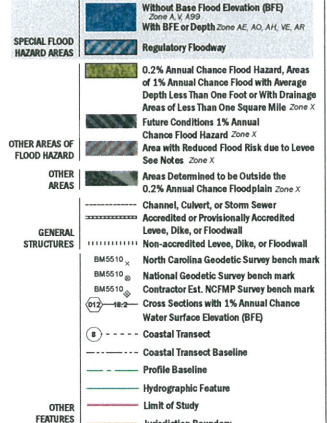
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This digital Flood Insurance Rate Map (FIRM) was produced through a unique partnership between the State of North Carolina and the Federal Emergency Management Agency (FEMA). The State of North Carolina has implemented a long-term program to update its flood insurance maps to reflect the most current flood hazard information. This is done in accordance with the National Flood Insurance Act of 1968, as amended. The State of North Carolina has joined in a Cooperative Technical State agreement with FEMA to produce and maintain the digital FIRM.

FLOOD HAZARD INFORMATION

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



NOTES TO USERS

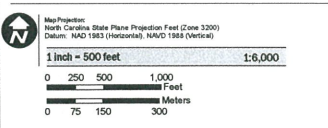
For information and questions about this map, available products associated with this FIRM including historic versions of this FIRM, please refer to the National Flood Insurance Program in general, please call the FEMA Map Information Xchange at 1-877-FEMA-MAP (1-877-366-2477) or visit the FEMA Map Service Center website at <http://www.fema.gov>. For accompanying Flood Insurance Study report, Letter of Map Amendment, or other information, please contact the FEMA Region IV office at 1-800-453-5863. For digital versions of this FIRM, please visit the FEMA Map Service Center website at <http://www.fema.gov>.

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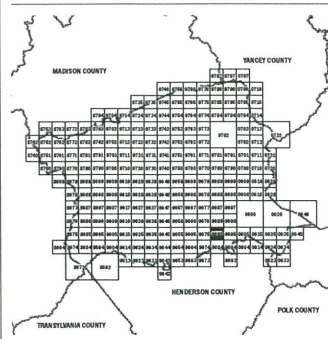
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SCALE



PANEL LOCATOR



National Flood Insurance Program

NORTH CAROLINA FLOODPLAIN MAPPING PROGRAM

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

NORTH CAROLINA

Panel 9685

Panel Contains:

COMMUNITY	CID	PANEL SUFFIX
BUNCOMBE COUNTY	37001	9685

MAP NUMBER
3700968500J
MAP REISED
01/06/10



100100

N

82°24'0"W

990000 FEI

#100