

OFFICE ESTIMATE:

PREDESIGN-SCOPING REPORT

Project# 17 BR. 11. R. 23

TIP#

Let Date

WBS#

County

ASHE

DIV.

11

Bridge#

040160

Road#

SR 1155 (Frank Dillard Rd.)

Stream

Little Naked Creek

Type Of Request: POC Force Account TIP NCMA

Date 7/7/16 Name

Wsh

Assigned To

PFF / MTS

Checked By

WOK

Prior Survey Date NO

(attach copy of prior survey)

BRN

BK#

NO

CO

FILE

NO

Study By Scour Section

NONE

Flood Zone

X

Detail Study

NONE

Date 11/4/09

Panel#

2987

B.M. Info

N/A

ESM DA = 1.7 SQ MILES

Quad Map

Jefferson

Drainage Area

1.76 sq mi

From

STREAM STATS

Q25

600 cfs

Q50

700

Q100

850

Method

OLD REG. EQU.

LONG: 81.429723

LAT: 36.391436

EXISTING BRIDGE INFORMATION

Location 0.7 miles SW Jct. NC 16, 88

Average Daily Traffic 870 (2012) 6% TRK.

YEAR BUILT: 1950

Length 27 ft

Bed- To Crown 11 ft

Water Depth 1 ft

Type Structure Timber Flr on Salvaged I-Beams. Tim.: Caps, Posts, Sills, Vertical End Bts.

Type Spans 1 @ 26' 6"

Upstream Structure Unnamed structure on Frank Dillard Rd (.36m U/S) YR. BUILT:

Location 0.36 m U/S ON FRANK DILLARD RD. LONG: 81.435586

Bed- To Crown

Prior Survey N/A

LAT: 36.389420

21 Downstream Structure Unnamed Culvert? on NC 16/88 (.94m. D/S) YR. BUILT:

Location 0.94 m D/S ON NC 16/88 LONG: 81.421700

Bed- To Crown

Prior Survey N/A

LAT: 36.402510

SCS Watershed

N/A

ENVIRONMENTAL

TVA:

NO

Trout Stream Yes

Anadromous Fish NO

Primary Nursery Area

NO

High Quality Waters NO

Nutrient Sensitive Waters

NO

Near Water Supply Intake NO

CAMA County

NO

Stream Classification C:Tr+

STREAM #: 05-07-01

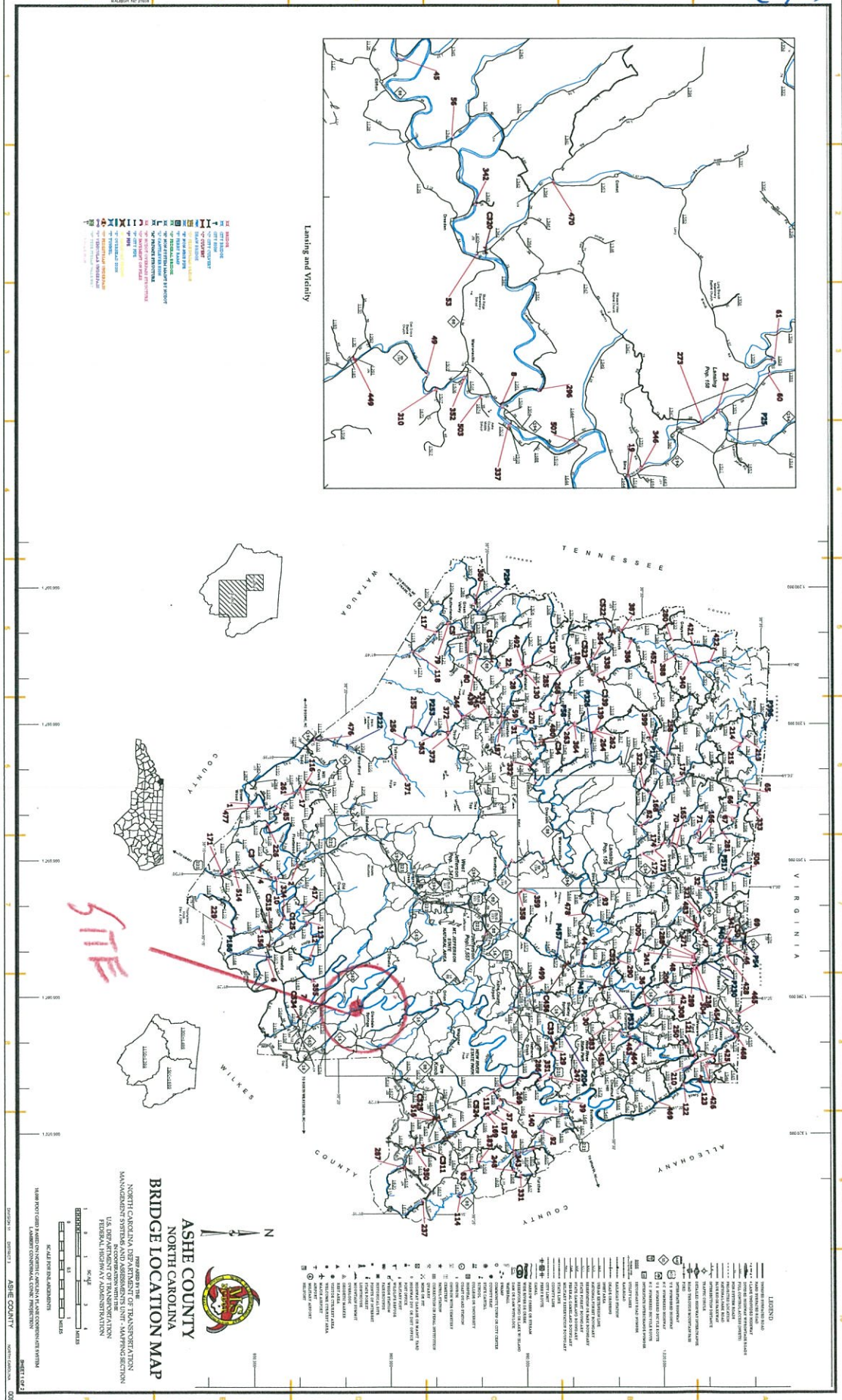
DENR River Basin Info. New

040160

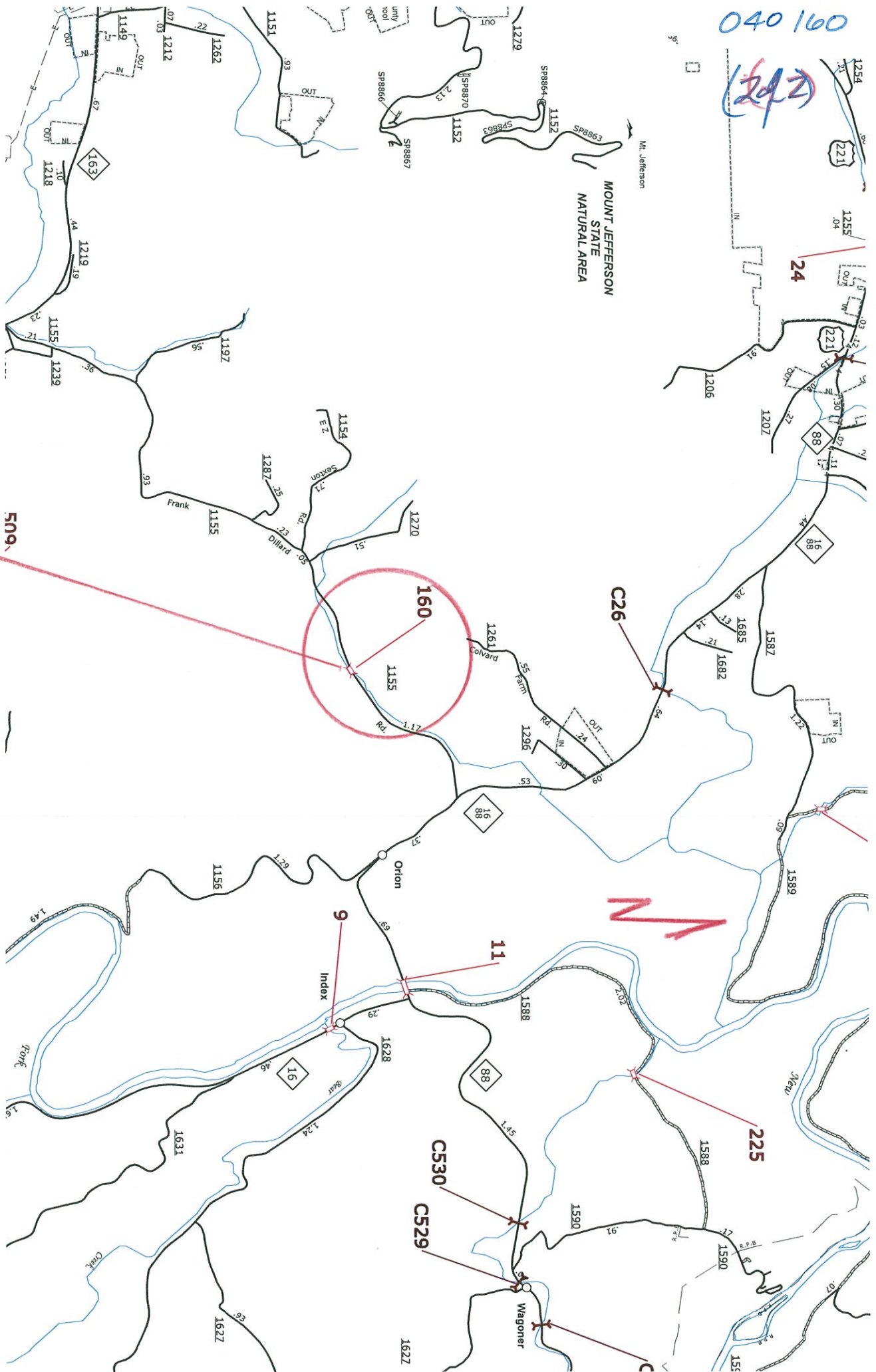
(1 of 2)

COPY OF THIS MAP AND AVAILABLE
TO THE PUBLIC AT NO CHARGE
EXCEPT AS NOTED
U.S. DEPARTMENT OF TRANSPORTATION
WASHINGTON, D.C. 20590
FEDERAL HIGHWAY ADMINISTRATION

This map is provided to provide the most accurate and current information possible. This map is a product
of the Federal Highway Administration and is not intended to be used for any other purpose. The
information shown on this map was last updated on September 2015. For additional information, visit
the website www.fhwa.gov or call 1-800-455-4545.



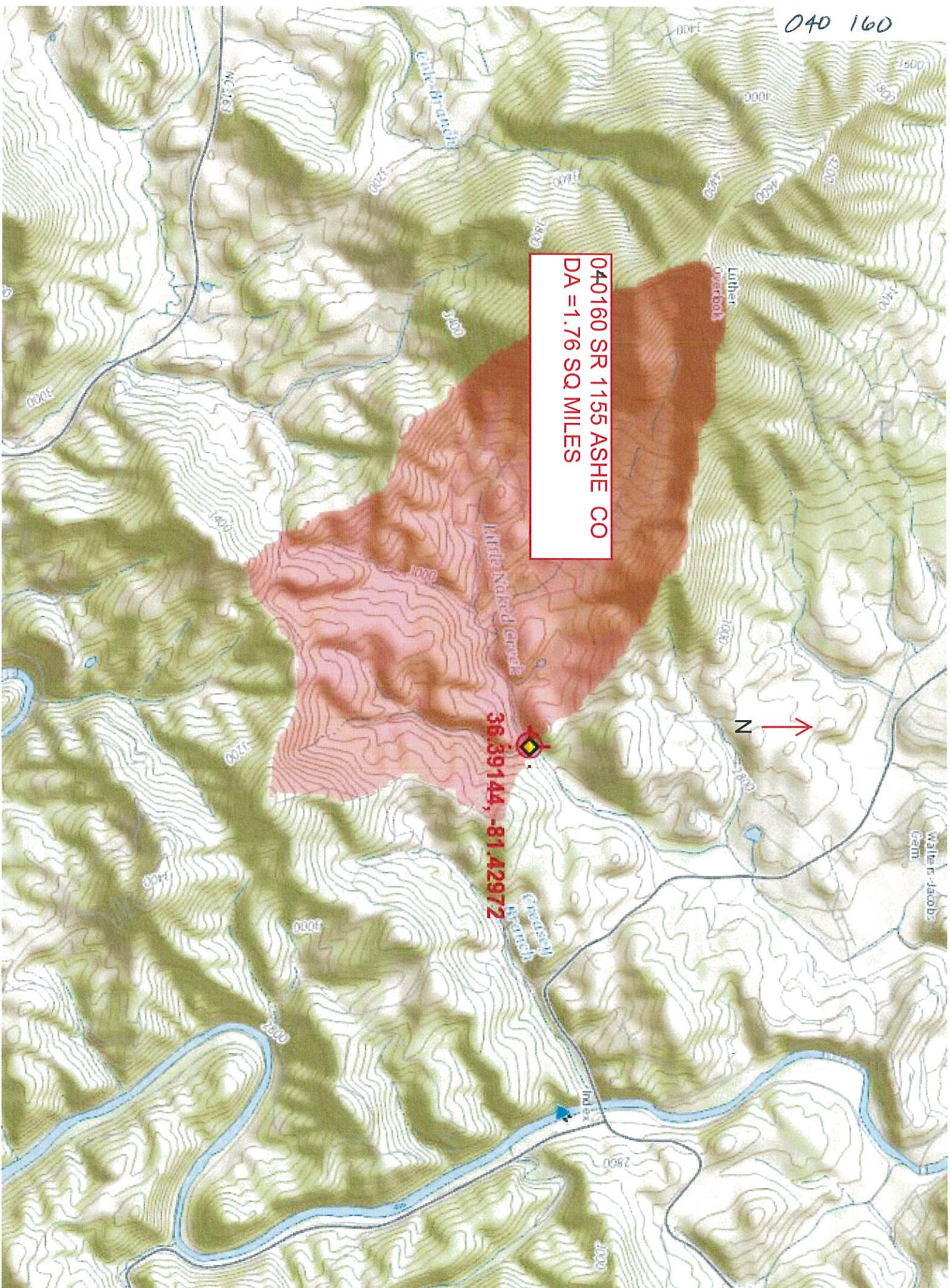
(292)



040 160

040160 SR 1155 ASHE CO
DA = 1.76 SQ MILES

36.39144, -81.42972



StreamStats Version 3.0**Flow Statistics Ungaged Site Report**

Date: Wed July 6, 2016 8:30:46 AM GMT-4

Study Area: North Carolina

NAD 1983 Latitude: 36.3914 (36 23 29)

NAD 1983 Longitude: -81.4295 (-81 25 47)

Drainage Area: 1.76 mi²

Peak Flows Region Grid Basin Characteristics			
100% Peak Southeast US over 1 sqmi 2009 5158 (1.76 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	1.76	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

Peak Flows Region Grid Statistics						
Statistic	Value	Unit	Prediction Error (percent)	Equivalent years of record	90-Percent Prediction Interval	
					Min	Max
PK2	170	ft ³ /s	35		96.7	300
PK5	319	ft ³ /s	34		182	559
PK10	437	ft ³ /s	35		245	780
PK25	599	ft ³ /s	38		323	1110
PK50	718	ft ³ /s	40		375	1380
PK100	861	ft ³ /s	42		434	1710
PK200	986	ft ³ /s	44		479	2030
PK500	1180	ft ³ /s	48		545	2560

<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.

[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

U.S. Department of the Interior | U.S. Geological Survey

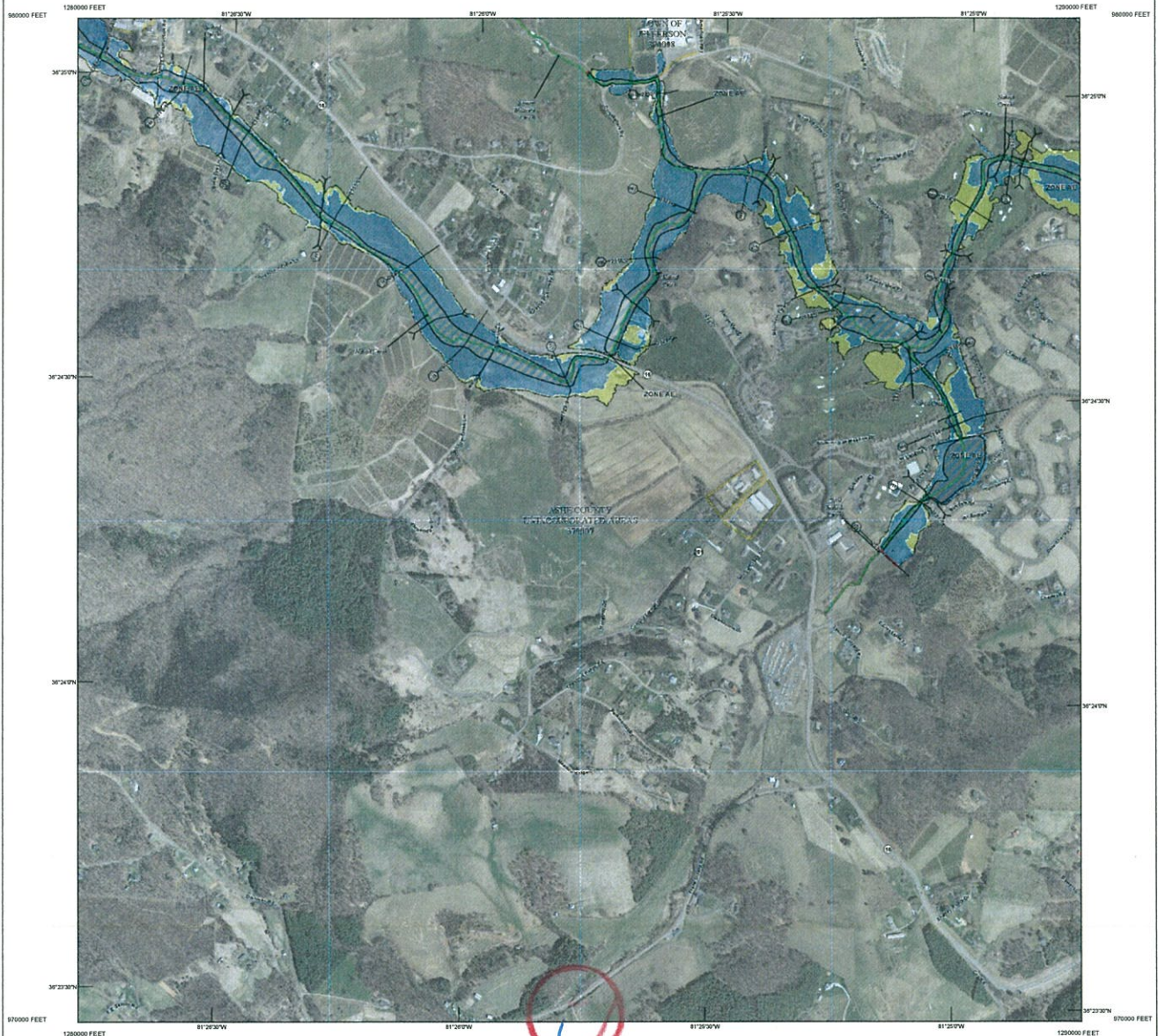
URL: http://streamstatsags.cr.usgs.gov/v3_beta/FTreport.htm

Page Contact Information: StreamStats Help

Page Last Modified: 11/24/2015 15:32:58 (Web1)

[Streamstats Status](#)[News](#)

040160

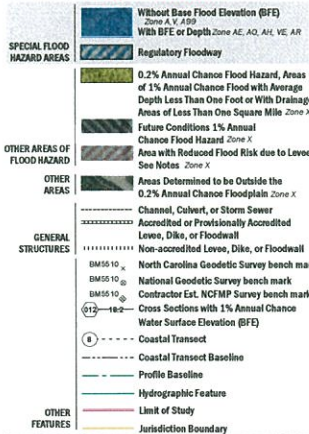


SITE

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 risks 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 Cooperative 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://fims.nc.gov/fris)



NOTES TO USERS

For information and questions about this map, available products associated with this FIRM including National Flood Insurance Program (NFIP) maps, please call the FEMA Map Information eXchange at 1-877-FEMA-MAP (1-877-366-2627) or visit the FEMA Map Service Center website at <http://www.fema.gov>. An accompanying Flood Insurance Study report, Letter of Map Amendment (LOMA) or Letter of Map Amendment (LOMA) relating portions of this panel, and digital versions of this FIRM map are available. Visit the North Carolina Floodplain Mapping Program website at <http://www.ncfpm.org> or contact the FEMA Map Service Center.

Communities desiring to be on a current FIRM panel must obtain a current copy of the adjacent panel as well as the current FIRM data. These may be obtained directly from the Map Service Center at the nuclear level above.

For community and countywide map data 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 1-800-658-4622.

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 (TSDB).

ACCREDITED LEVEE 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, in the levee system(s) shown as providing protection. To mitigate flood risk in coastal 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> and <http://www.floodsmart.gov>.

PROVISIONALLY ACCREDITED LEVEE 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, in 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 10.10 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 10.10 requirements, FEMA will remove the flood insurance information for this area to reflect the non-compliance of the levee system. To mitigate flood risk in coastal 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> and <http://www.floodsmart.gov>.

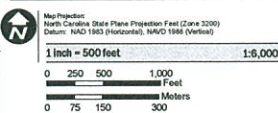
LIMIT OF MODERATE WAVE ACTION (LIMWA) NOTES TO USERS: For some coastal flooding areas the AE Zone category has been divided by a Limit of Moderate Wave Action (LIMWA). The LIMWA represents the approximate landward limit of the 1.5-foot breaking wave. The effects of wave hazards between the VE Zone and the LIMWA or between the LIMWA and the LOMA 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)

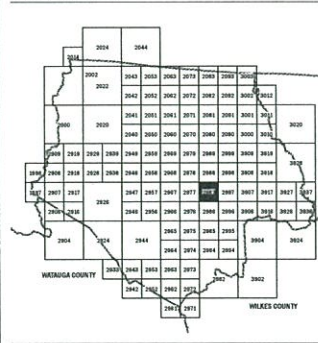
COASTAL BARRIER RESOURCES SYSTEM (CBRS) NOTE
This map may include approximate boundaries of the CBRS for informational purposes only. Flood insurance is not available within CBRS areas for structures that are newly built or substantially improved or after the date of the map. For more information on the CBRS and for information on the CBRS, please visit the FEMA website at <http://www.fema.gov> or call the U.S. Fish and Wildlife Service Customer Service Center at 1-800-344-6822.

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 2987

Panel Contains:

COMMUNITY	CID	PANEL	SUFFIX
ASH COUNTY	370007	2987	J
JEFFERSON, TOWN OF	320006	2987	J

MAP NUMBER
3710298700J
MAP REVISED
11/4/2009

040160

#2987

How Ridge Dr

Frank Dillard Rd

N

81°26'0"W

81°25'30"W

160



040160



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: PRIORITY MAINTENANCE - BEAMS, END BENT 2
SILL; UPDATES MADE TO SUBSTRUCTURE
SKETCHES; SKETCH ADDED FOR OPEN HOLES IN
BEAMS

Structure Safety Report

Routine Element Inspection - Contract

COUNTY: ASHE STRUCTURE NUMBER: 040160 FREQUENCY: 24 MONTHS

FACILITY CARRIED: SR1155 MILE POST:

LOCATION: .7 MI.SW.JCT.NC16,88

FEATURE INTERSECTED: LITTLE NAKED CREEK

LATITUDE: 36° 23' 29.73" LONGITUDE: 81° 25' 46.32"

SUPERSTRUCTURE: TIMBER FLOOR ON SALVAGED I-BEAMS

SUBSTRUCTURE: E.BTS:TIM.CAPS/TIM.POST&SILLS @ VAR. CENTERS

SPANS: 1 @ 26'-6

☐ FRACTURE CRITICAL ☐ TEMPORARY SHORING ☐ SCOUR CRITICAL ☐ SCOUR PLAN OF ACTION

PRESENT CONDITION: Fair INSPECTION DATE: 12/04/2015

POSTED SV: Not Posted POSTED TTST: Not Posted

OTHER SIGNS PRESENT: 4 DELINEATORS



Sign noticed issued for		Number Required
<u>NO</u>	WEIGHT LIMIT	<u>0</u>
<u>NO</u>	DELINEATORS	<u>0</u>
<u>NO</u>	NARROW BRIDGE	<u>0</u>
<u>NO</u>	ONE LANE BRIDGE	<u>0</u>
<u>NO</u>	LOW CLEARANCE	<u>0</u>

LOOKING NORTH

INSPECTED BY MATTHEW MOYER	SIGNATURE <i>Matthew Moyer</i>	ASSISTED BY DAVID WAGNER
-------------------------------	-----------------------------------	-----------------------------

040160

Structure: 040160

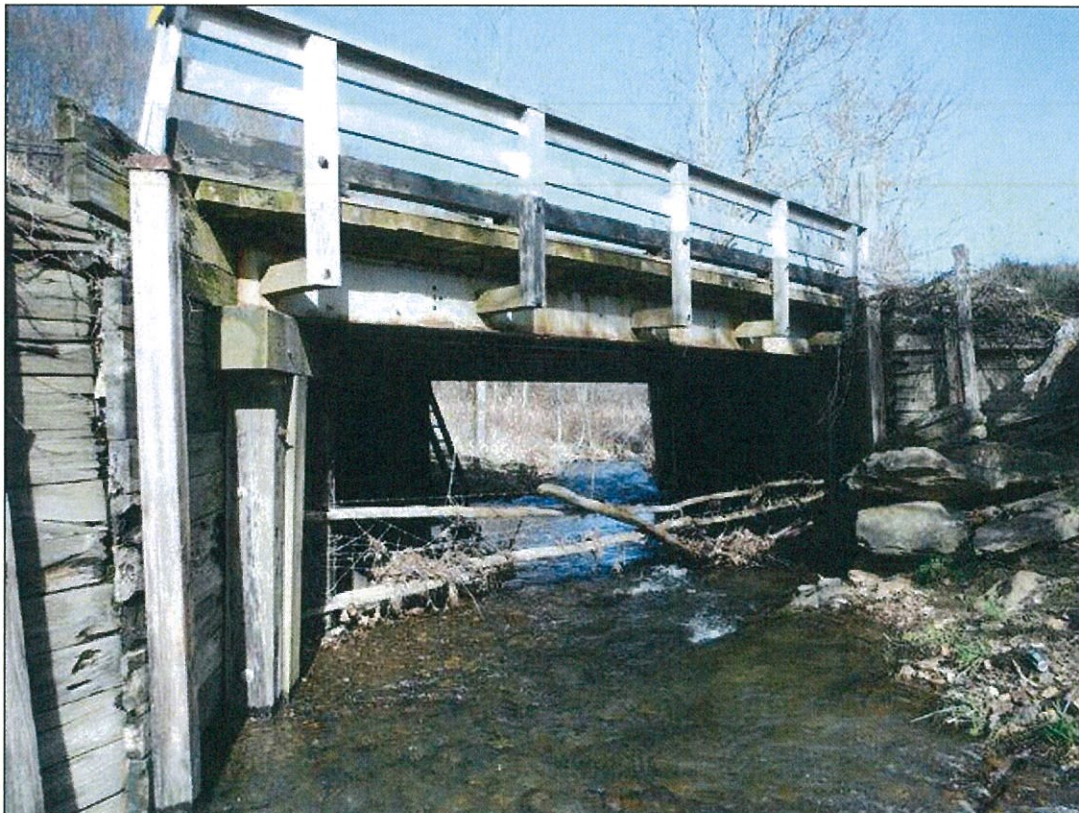
County: ASHE

Date: 12/04/2015

Structure Photos



DOWNSTREAM PROFILE



UPSTREAM PROFILE

040160

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 12/29/2015

COUNTY :	DIVISION :	DISTRICT :	STRUCTURE NUMBER :	LENGTH :
ASHE	11	3	040160	27 FEET

ROUTE CARRIED :	FEATURE INTERSECTED :
SR1155	LITTLE NAKED CREEK

LOCATED :	BRIDGE NAME :	CITY :
.7 MI.SW.JCT.NC16,88		

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :	RAIL TYPE :
09	NFA	NFA	870 2012	LT 227 RT 227

BUILT :	BY :	PROJ :	FED.AID PROJ :	DESIGN LOAD :
1950	BMU			Unknown

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :	UNDER :
	BMU	5.7151	TAN	135	ON 2	0

NAVIGATION :	HT. CRN. TO BED :	WATER DEPTH :
VC 0 FT HC 0 FT 11 FT		1 FT

SUPERSTRUCTURE :	TIMBER FLOOR ON SALVAGED I-BEAMS
------------------	----------------------------------

SUBSTRUCTURE :	E.BTS:TIM.CAPS/TIM.POST&SILLS @ VAR. CENTERS
----------------	--

SPANS :	1 @ 26'-6
---------	-----------

BEAMS OR GIRDERS :	11 LINES 16 I-BEAMS @ 2'-4 CENTERS
--------------------	------------------------------------

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
4X8 TIM/3 AWS		26 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :
25.08 FT	25.75 FT	LT .3 FT RT .3 FT

VERT.CL.OVER :
999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :	TTST	DATE
HS-1	HS-1	IntBeams	SV 18	24	12/29/2015

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

UNDER ROUTES AND CLEARANCES

REMARKS :

040160

Bridge: 040160

County ASHE

Date:

Top of Rail = 0 FT (Sounding)

STREAMBED PROFILE (Downstream)

