Project# _____
TIP# B-5830
Let Date _____
WBS# _____

PREDESIGN-PRESURVEY REPORT

County ASHE (DIV. 11)

Bridge# 040177
Road# SR 1181 (HARTZOG FORD RD.)
Stream BEAVER CRK. ✓

Type Of Request: POC Force Account TIP NCMA
Date 12/18/15 Name WSH Assigned To PFF/MTS
Checked By SNM (1/15/16)
Prior Survey Date NONE (attach copy of prior survey) BRN. BK.: NONE CO. FILE NONE
Study By Scour Section NONE
Flood Zone AE Detail Study REDELIN. Date 11-4-09 Panel# 2984
B.M. Info N/A (ESM DA = 16.1 Sq M. ✓)
Quad Map N/A Drainage Area 16.5 Sq M. From DASS STA # 3160870000
Q25 = 2900 cfs Q50 3600 cfs Q100 4100 cfs Method REG. EQU. REGION 2 RURAL

Long: -81.42865
Lat.: 36.33197

EXISTING BRIDGE INFORMATION BUILT: 1961

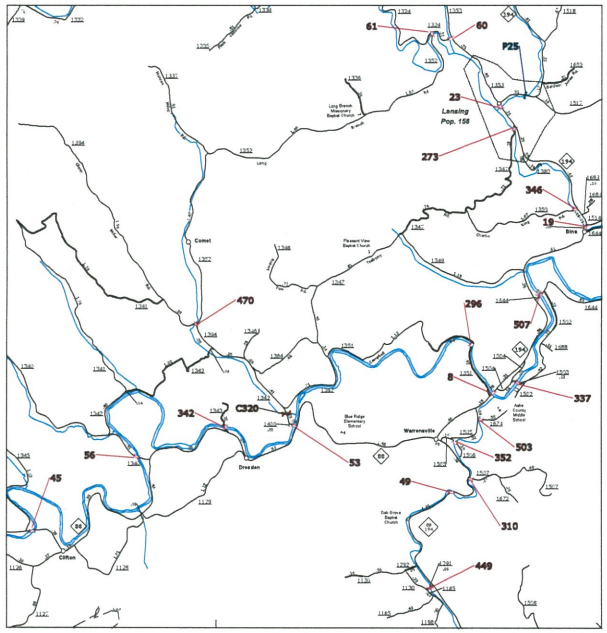
Location 0.1 Mi W JCT. SR 1182
Average Daily Traffic 660 2012 (6% TRK.)
Length 51' ✓ Bed- To Crown 15' Water Depth 6'
Type Structure TIMBER FLOOR ON I BEAMS TIM: E. BTS, CAPS, POST/CONC SILLS
Type Spans 1@ 50'6" ✓
Upstream Structure 040240 (1@ 40'8") PRESTRESSED CONC. CORED SLAB
Location 75 FT. W. JCT. NC 163 ON SR. 1147 Yr: 1967
Bed- To Crown 13' (H2O 2' DEEP) Prior Survey N/A
Downstream Structure 040007 RC FLR. ON CONT. STEEL PLATE GIRDERS.
Location 0.1 MI N. JCT. SR 1201 ON NC 163 (1@76', 1@140', 1@98')
Bed- To Crown 38' (H2O 2' DEEP) Prior Survey N/A
SCS Watershed N/A

ENVIRONMENTAL TVA: NO

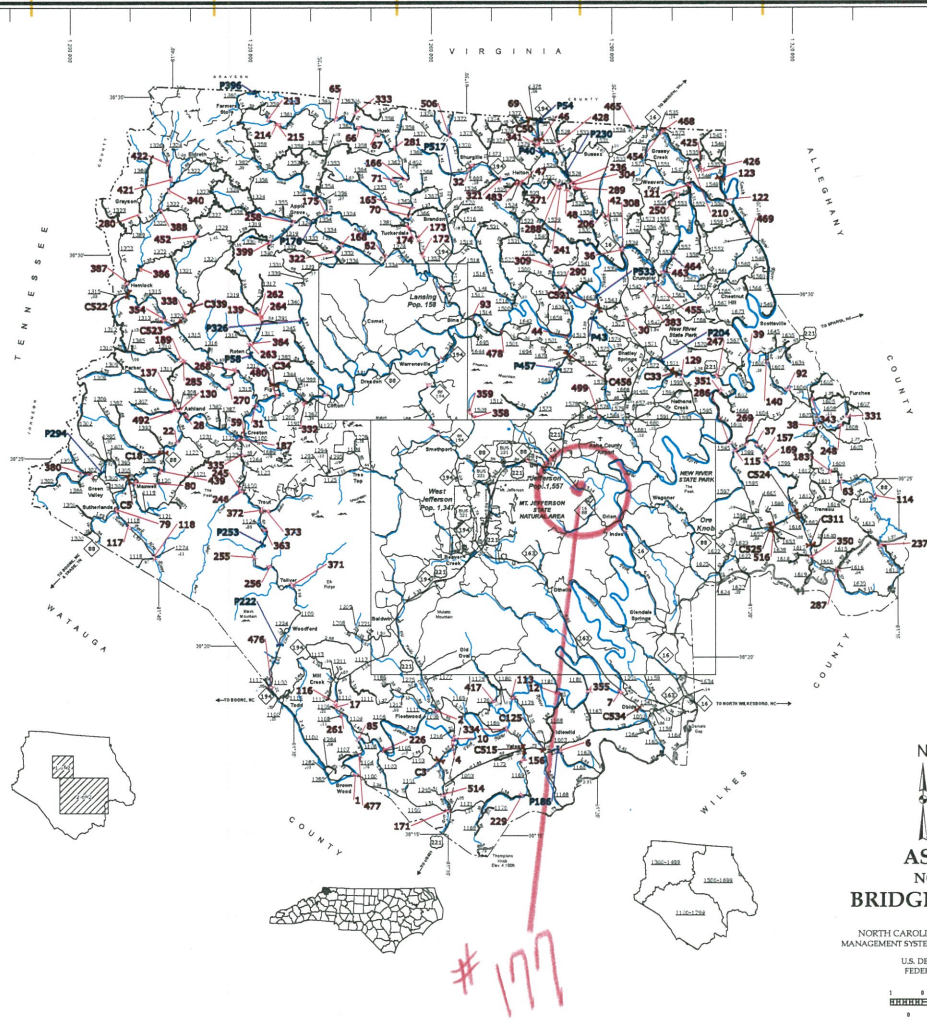
Trout Stream YES Anadromous Fish NO Primary Nursery Area YES
High Quality Waters NO Nutrient Sensitive Waters NO
Near Water Supply Intake N/A CAMA County NO
Stream Classification C; Tr; + (# 10-1-25)
DENR River Basin Info. NEW

F-15

1, 33, 47, 55, 89



Lansing and Vicinity



LEGEND

- UNPAVED SURFACED ROAD
- HARD SURFACED ROAD
- 4 LANE UNDIVIDED HIGHWAY
- DIVIDED HIGHWAY WITH CURB & GUTTER
- FULL CONTROL ACCESS (FREEWAY)
- NON-SYSTEM ROADS
- PROJECTED LOCATION
- NATIONAL PARK ROAD
- BLUE RIDGE PARKWAY
- INTERSECTION DISTANCE
- TRAFFIC CIRCLE
- DETAILED HIGHWAY INTERCHANGE
- ROAD THROUGH MOUNTAIN PASS
- FORD
- INTERSTATE HIGHWAY
- U.S. NUMBERED HIGHWAY
- N.C. NUMBERED HIGHWAY
- U.S. NUMBERED BICYCLE ROUTE
- N.C. NUMBERED BICYCLE ROUTE
- INTERSTATE INTERCHANGE NUMBER
- SECONDARY ROAD NUMBER
- UTILITY LINES
- RAILROAD
- RAILROAD STATION
- GRADE CROSSING
- STREET AREA
- URBAN EXTENSION LINE
- NATIONAL FOREST BOUNDARY
- RESERVATION OR PARK BOUNDARY
- STATE FOREST BOUNDARY
- STATE GAMELAND BOUNDARY
- FEDERAL GAMELAND BOUNDARY
- MILITARY RESERVATION BOUNDARY
- STATE LINE
- COUNTY LINE
- CITY LIMIT
- FERRY ROUTE
- CANAL
- NARROW CREEK OR STREAM
- WIDE RIVER OR CREEK
- RESERVOIR, POND OR LAKE W/ ISLAND
- DAM OR DAM WITH LOCK
- WATERFALL
- SPRING
- COMMUNITY, TOWN OR CITY CENTER
- COUNTY SEAT
- STATE CAPITAL
- SCHOOL
- COLLEGE OR UNIVERSITY
- HOSPITAL
- COAST GUARD STATION
- CHURCH
- CHURCH WITH CEMETERY
- CEMETERY
- PATROL STATION
- CORRECTION OR FEDAL INSTITUTION
- QUARRY
- MINE OR PIT
- HIGHWAY GARAGE OR MAINT. YARD
- HIGHWAY DIV. OR DIST. OFFICE
- POST OFFICE
- MILITARY POST
- WILDLIFE REFUGE
- WEIGH STATION
- FAIRGROUNDS
- HISTORICAL SITE
- POINTS OF INTEREST
- STATE FOREST
- LIGHTHOUSE
- MOUNTAIN SUMMIT
- OVERLOOK
- GEODETIC MARKER
- REST AREA
- VISITOR CENTER AREA
- WELCOME CENTER/REST AREA
- MAJOR AIRPORT
- AIRPORT
- MILITARY AIRPORT
- HELIPORT

N

ASHE COUNTY
NORTH CAROLINA
BRIDGE LOCATION MAP

PREPARED BY THE
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
MANAGEMENT SYSTEMS AND ASSESSMENTS UNIT - MAPPING SECTION
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

SCALE
1 0 1 2 3 4 MILES
0 0.5 1 MILES

SCALE FOR ENLARGEMENTS

10,000 FOOT GRID BASED ON NORTH CAROLINA PLANE COORDINATE SYSTEM
LAMBERT CONFORMAL CONIC PROJECTION

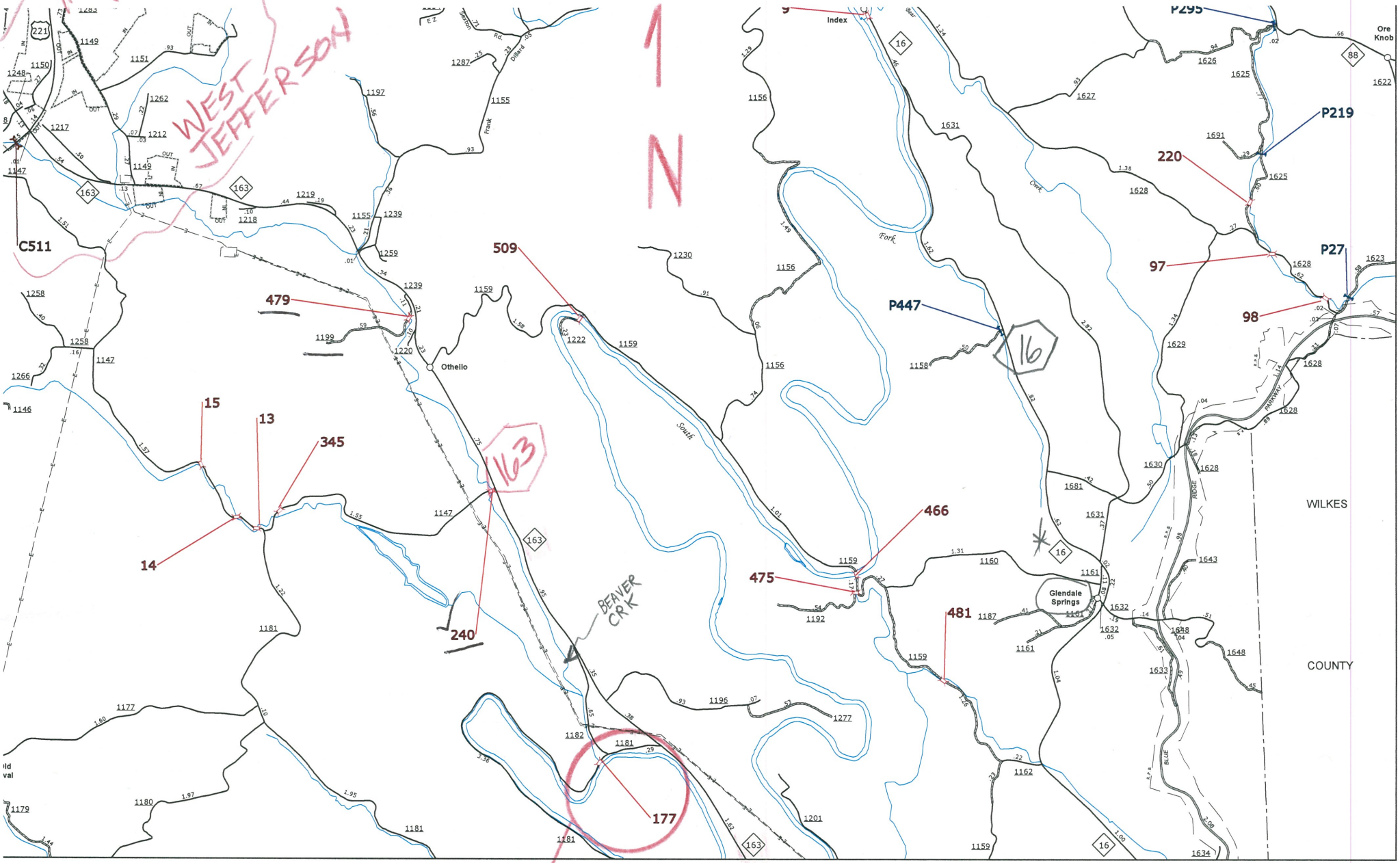
SHEET 1 OF 2

DIVISION 11 DISTRICT 3 ASHE COUNTY NORTH CAROLINA 009

COPIES OF THIS MAP ARE AVAILABLE TO THE PUBLIC AT NOMINAL COST.
N.C. DEPARTMENT OF TRANSPORTATION
MAPPING SECTION
1589 MAIL SERVICE CENTER
RALEIGH, NC 27699-1589
(919) 733-7170

046 177

#177


#177
WEST JEFFERSON
1
N
C511
509
479
15
13
345
14
240
163
Othello
BEAVER CRK
South Fork
P447
16
466
475
481
177
Glendale Springs
Index
P295
Ore Knob
P219
220
97
98
P27
WILKES
COUNTY
FLOW
MASH STUART RD?
SR 1199?

177

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
STRUCTURE MANAGEMENT UNIT

ATTENTION: PRIORITY MAINTENANCE ISSUED
SIGN NOTICE ISSUED
SKETCHES UPDATED
TEMPORARY REPAIRS

Structure Safety Report

Routine Element Inspection - Contract

COUNTY: ASHE **STRUCTURE NUMBER:** 040177 **FREQUENCY:** 24 MONTHS

FACILITY CARRIED: SR1181 **MILE POST:**

LOCATION: .1 MI.W.JCT.SR1182

FEATURE INTERSECTED: BEAVER CREEK

LATITUDE: 36° 19' 55.12" **LONGITUDE:** 81° 25' 43.13"

SUPERSTRUCTURE: TIMBER FLOOR ON I-BEAMS

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

SPANS: 1 @ 50.5'
1 @ 50'-6

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

PRESENT CONDITION: Fair **INSPECTION DATE:** 11/03/2015

POSTED SV: 13 **POSTED TTST:** 13

OTHER SIGNS PRESENT: FOUR (4) DELINEATORS



west approach looking east

Sign noticed issued for		Number Required
NO	WEIGHT LIMIT	0
NO	DELINEATORS	0
YES	NARROW BRIDGE	1
NO	ONE LANE BRIDGE	0
NO	LOW CLEARANCE	0

INSPECTED BY	SIGNATURE	ASSISTED BY
NICHOLAS PIERCE	N Pierce	SWETHA NATARAJAN

Structure: 040177 County: ASHE Date: 11/03/2015 Condition Photos



underside of deck, debris caught between beams (32in x 6ft x 18in)

Structure: 040177 County: ASHE Date: 11/03/2015 Structure Photos



northwest wingwall



downstream profile, looking north

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE Run Date: 12/07/2015

COUNTY :	DIVISION :	DISTRICT:	STRUCTURE NUMBER :	LENGTH :
ASHE	11	3	040177	51 FEET

ROUTE CARRIED : SR1181

FEATURE INTERSECTED : SOUTH BEAVER CREEK

LOCATED : .1 MI.W.JCT.SR1182

BRIDGE NAME :

CITY :

FUNC. CLASS :	SYST.ON :	SYST.UNDER :	ADT & YR :		RAIL TYPE :	
09	NFA	NFA	660	2012	LT 227	RT 227

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

REHAB :	BY :	PROJ :	ALIGNMENT :	SKEW :	LANES :	
1973	BMU		TAN	90	ON 2	UNDER 0

NAVIGATION :				HT. CRN. TO BED :		WATER DEPTH :	
VC	0	FT	HC 0 FT	15	FT	6	FT

SUPERSTRUCTURE : TIMBER FLOOR ON I-BEAMS

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

SPANS : 1 @ 50'-6

BEAMS OR GIRDERS : 8 LINES 18 I-BEAMS @ 2'-7 CENTERS

FLOOR :	ENCROACHMENT :	DECK (OUT TO OUT) :
4X8 TIM/2 AWS		20 FT

CLEAR ROADWAY :	BETWEEN RAILS :	SIDEWALK OR CURB :		
19 FT	19.75 FT	LT .4 FT	RT .4 FT	

VERT.CL.OVER : 999.9 FT

INV.RTG. :	OPE.RTG. :	CONTR.MEMBER :	POSTED :			
HS-1	HS-1	Int. Bm (Sec.Loss)6	SV 9	TTST 9	DATE	12/04/2015

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

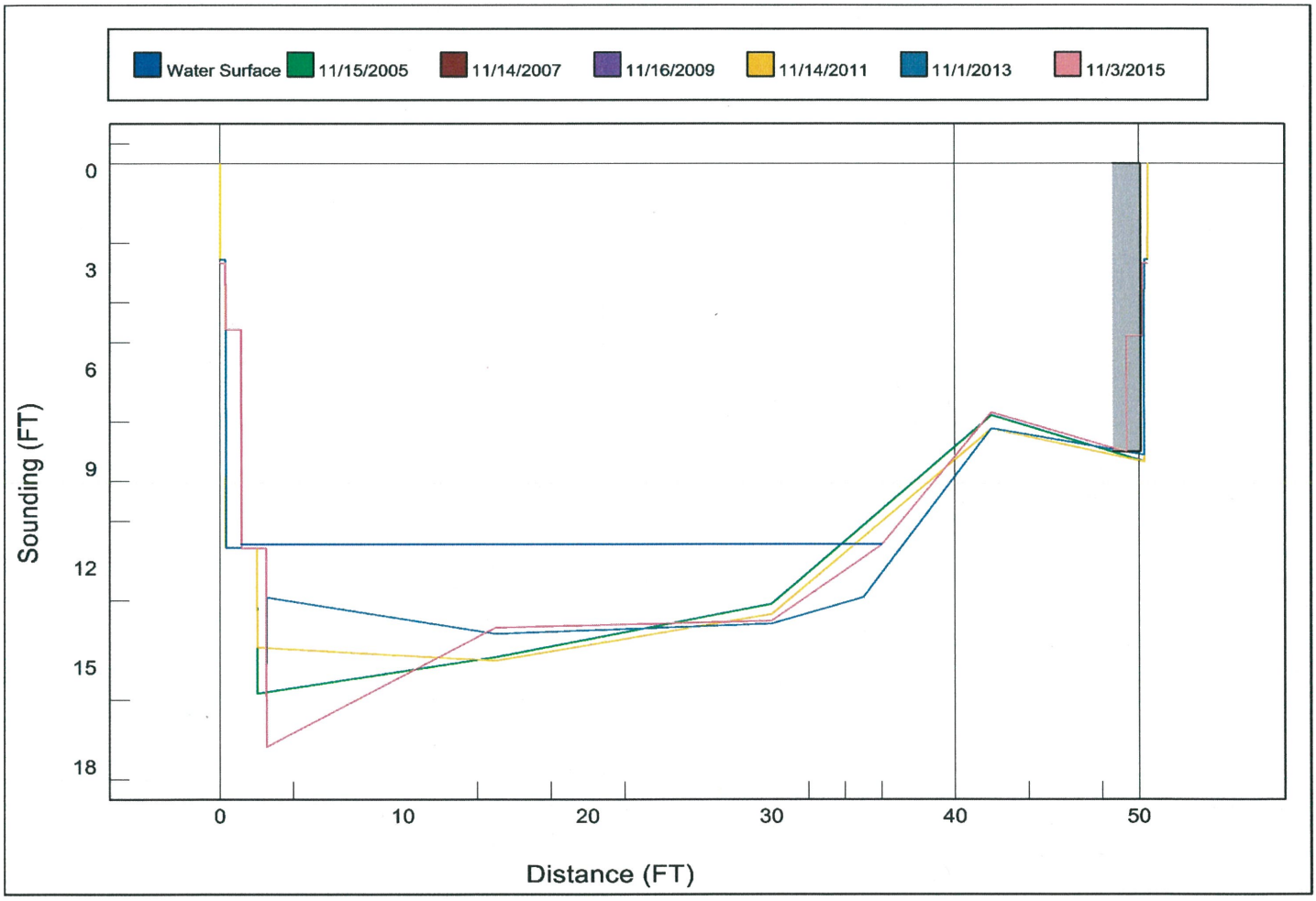
UNDER ROUTES AND CLEARANCES

REMARKS :

Bridge: 040177 County ASHE Date: 11/03/2015

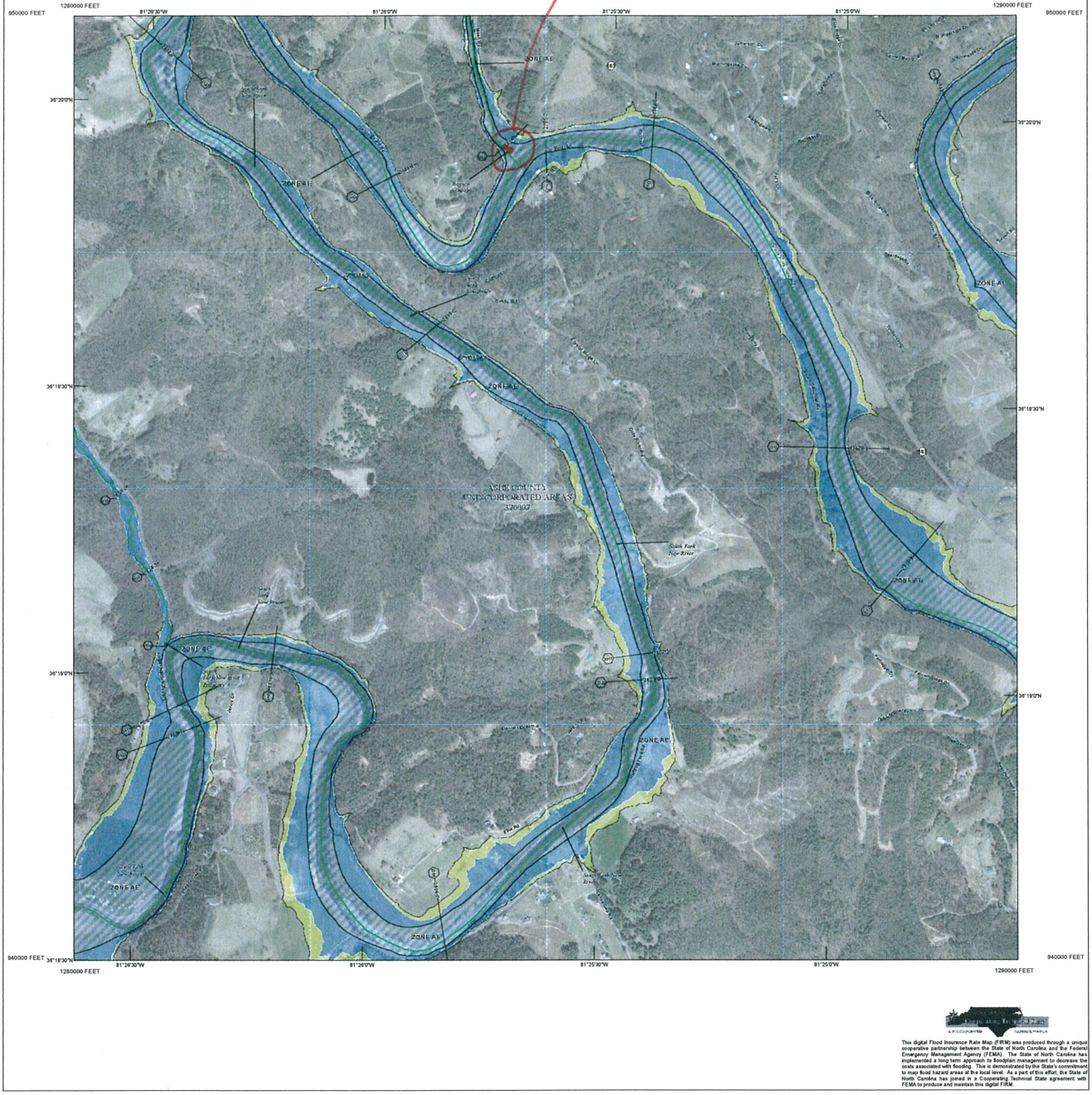
STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)



040177

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 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

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 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*

OTHER AREAS
- Areas Determined to be Outside the 0.2% Annual Chance Floodplain *Zone X*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Accredited or Provisionally Accredited Levee, Dike, or Floodwall
- Non-accredited Levee, Dike, or Floodwall
- BM5510 North Carolina Geodetic Survey bench mark
- BM5510 National Geodetic Survey bench mark
- BM5510 Contractor Est. NCFMP Survey bench mark
- 513 18.2 Cross Sections with 1% Annual Chance Water Surface Elevation (BFE)
- 8 Coastal Transect

OTHER FEATURES
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature
- Limit of Study
- 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 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, 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 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, 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

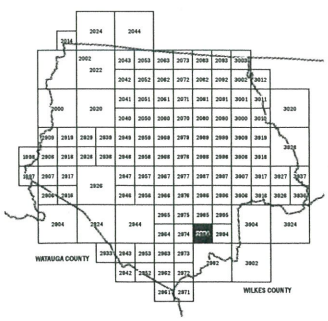
Map Projection:
North Carolina State Plane Projection Feet (Zone 3200)
Datum: NAD 1983 (Horizontal), NAVD 1988 (Vertical)

1 inch = 500 feet 1:6,000

0 250 500 1,000 Feet

0 75 150 300 Meters

PANEL LOCATOR



National Flood Insurance Program

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

NORTH CAROLINA

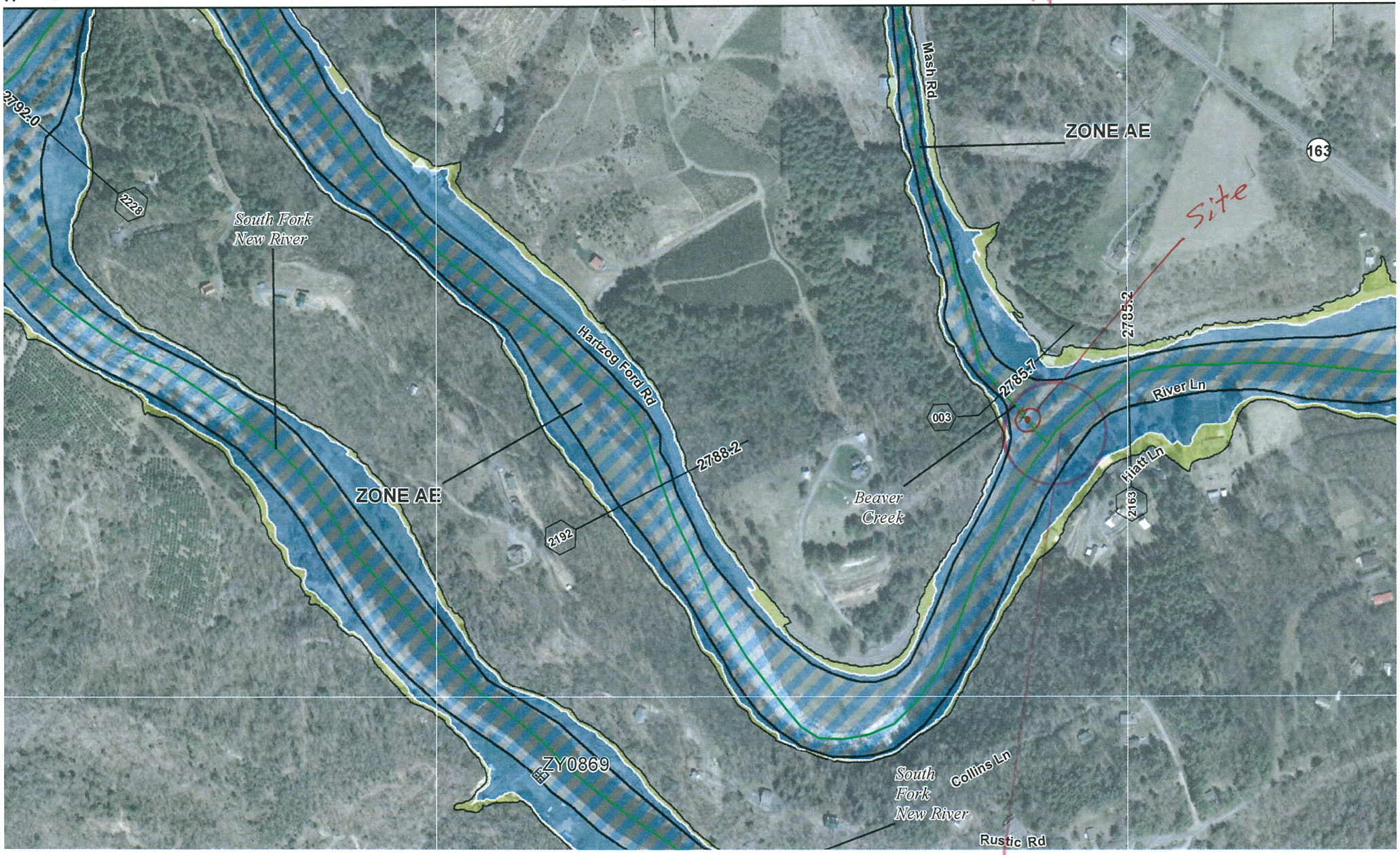
PANEL 2984

FEMA

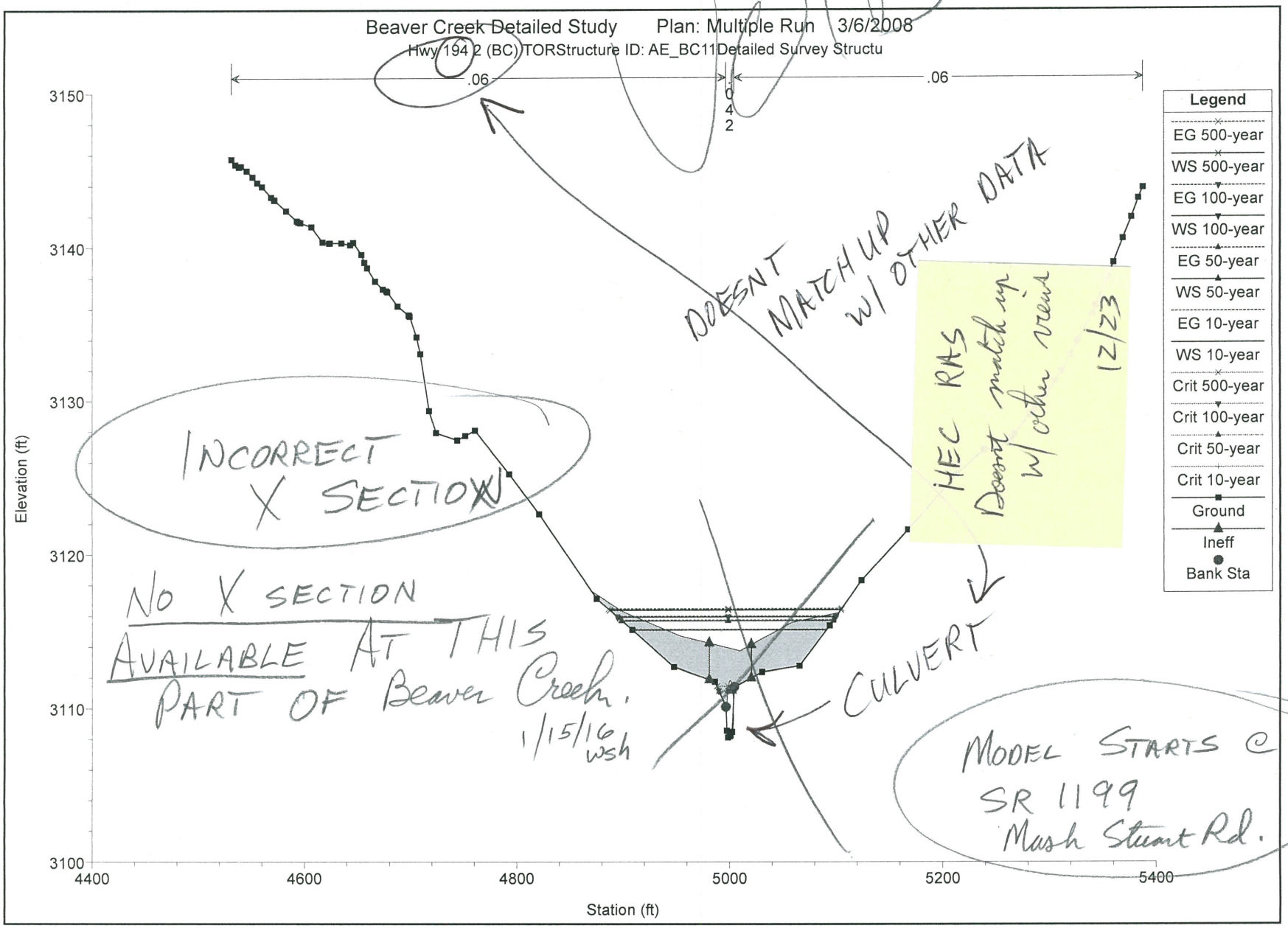
Panel Contains:

COMMUNITY	CID	PANEL	SUFFIX
ASHE COUNTY	370007	2984	J

MAP NUMBER
3710298400J
MAP REVISED
11/4/2009


W
81°26'0"W
81°25'30"W
N
Site
Mash Rd
ZONE AE
163
2792.0
2228
South Fork
New River
Hartzog Ford Rd
2785.2
2785.7
River Ln
003
2788.2
ZONE AE
2192
Beaver
Creek
Hiatt Ln
2163
ZY0869
South
Fork
New River
Collins Ln
Rustic Rd

1977.


Beaver Creek Detailed Study Plan: Multiple Run 3/6/2008
Hwy 194 2 (BC) TORStructure ID: AE_BC11Detailed Survey Structu
.06
.06
0.042
Legend
EG 500-year
WS 500-year
EG 100-year
WS 100-year
EG 50-year
WS 50-year
EG 10-year
WS 10-year
Crit 500-year
Crit 100-year
Crit 50-year
Crit 10-year
Ground
Ineff
Bank Sta
Elevation (ft)
3150
3140
3130
3120
3110
3100
4400
4600
4800
5000
5200
5400
Station (ft)
DOESN'T MATCH UP W/ OTHER DATA
HEC RAS Doesn't match up w/ other areas 12/23
INCORRECT X SECTION
No X SECTION AVAILABLE AT THIS PART OF Beaver Creek. 1/15/16 WSH
CULVERT
MODEL STARTS @ SR 1199 Mash Stuart Rd.