

OFFICE ESTIMATE

1 @ 45' Bridge

PREDESIGN-PRESURVEY REPORT

Project# _____
TIP# _____
Let Date _____
WBS# 17BP.14.R.108

County JACKSON (Div. 14)

Bridge# 490103
Road# SR 1740 (MOSES CRK RD)
Stream MOSES CRK

Type Of Request: POC Force Account TIP NCMA

Date 8/27/13 Name MJY

Assigned To RCH

Checked By _____

BRN. NO CO FILE NO

Prior Survey Date _____ (attach copy of prior survey)

Study By Scour Section NO

Flood Zone X Detail Study NONE Date 4/19/10 Panel# 7574

B.M. Info _____

Quad Map TULKASEGEE Drainage Area 6 SQ. MI. From USGS STREAM STATS
Q25 1500 cfs Q50 1700 cfs Q100 2100 cfs Method REGR. EBNs. /
REG. 2

EXISTING BRIDGE INFORMATION

Location 1.4 MI. N. JCT. SR 1739

Average Daily Traffic 140 6% TRK (2000)

Length 21' Bed- To Crown 6' Water Depth 1'

Type Structure TIM. FLOOR ON TIM. JOISTS, TIM. CAPS, POSTS, & SILLS

Type Spans 1 @ 20' - 6"

Upstream Structure 490134, TIM. FLOOR ON TIM. JOISTS, TIM. CAPS, POST & SILLS, 1 @ 20' - 6"

Location 1.65 MI. N. JCT. SR 1737

Bed- To Crown 6' (D=1') Prior Survey _____

Downstream Structure 490102, TIM. FLOOR ON I-BEAMS, TIM. CAPS, POST & SILLS, 1 @ 25' - 6"

Location 0.75 MI. N. JCT. SR 1739

Bed- To Crown 8' (D=1') Prior Survey _____

SCS Watershed _____

ENVIRONMENTAL

TVA: YES

Trout Stream YES

Anadromous Fish NO Primary Nursery Area NO

High Quality Waters NO

Nutrient Sensitive Waters NO

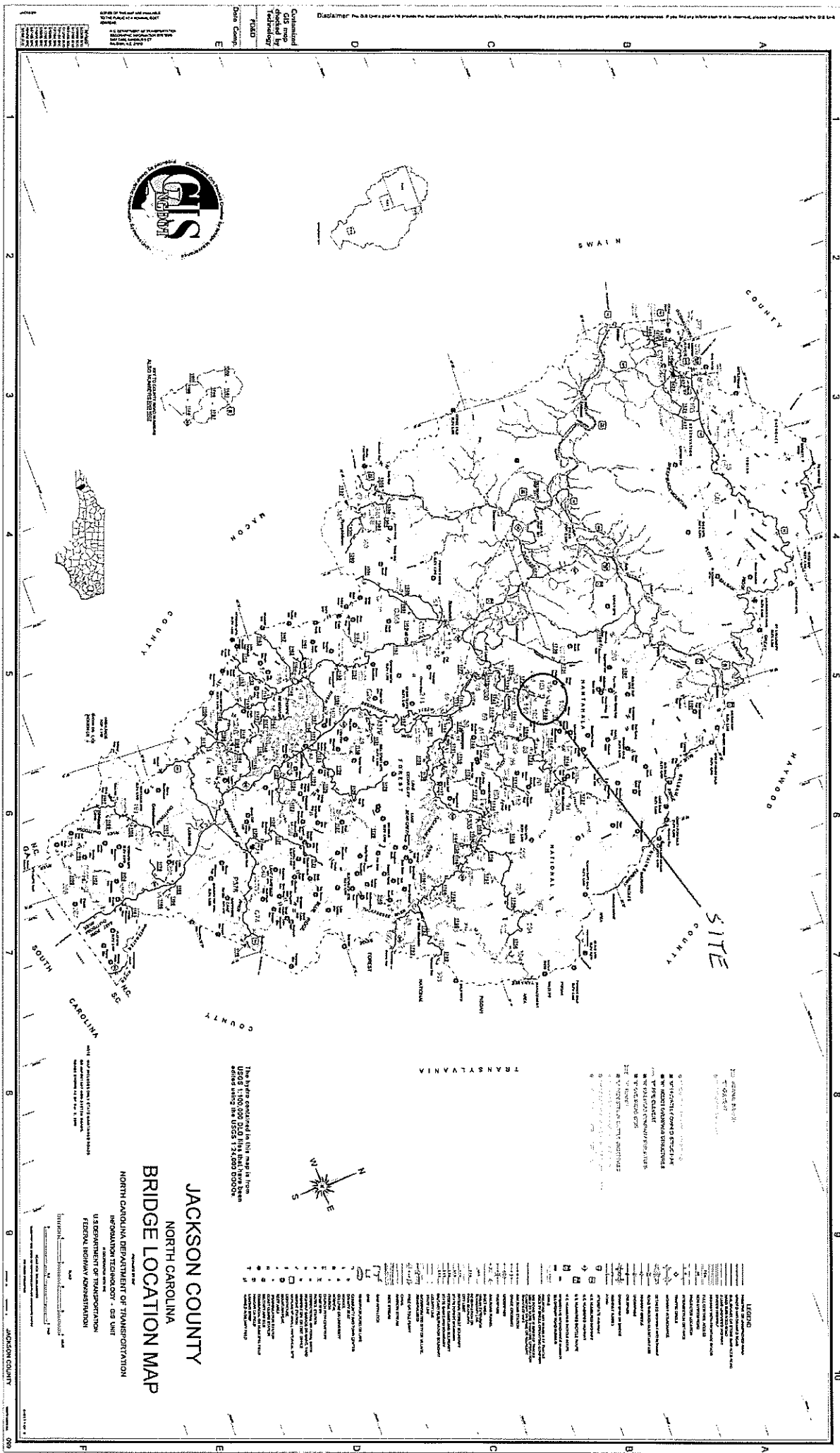
Near Water Supply Intake NO

CAMA County NO

Stream Classification WS-III; Tr.

2-74-28-8

DENR River Basin Info. LITTLE TENN.



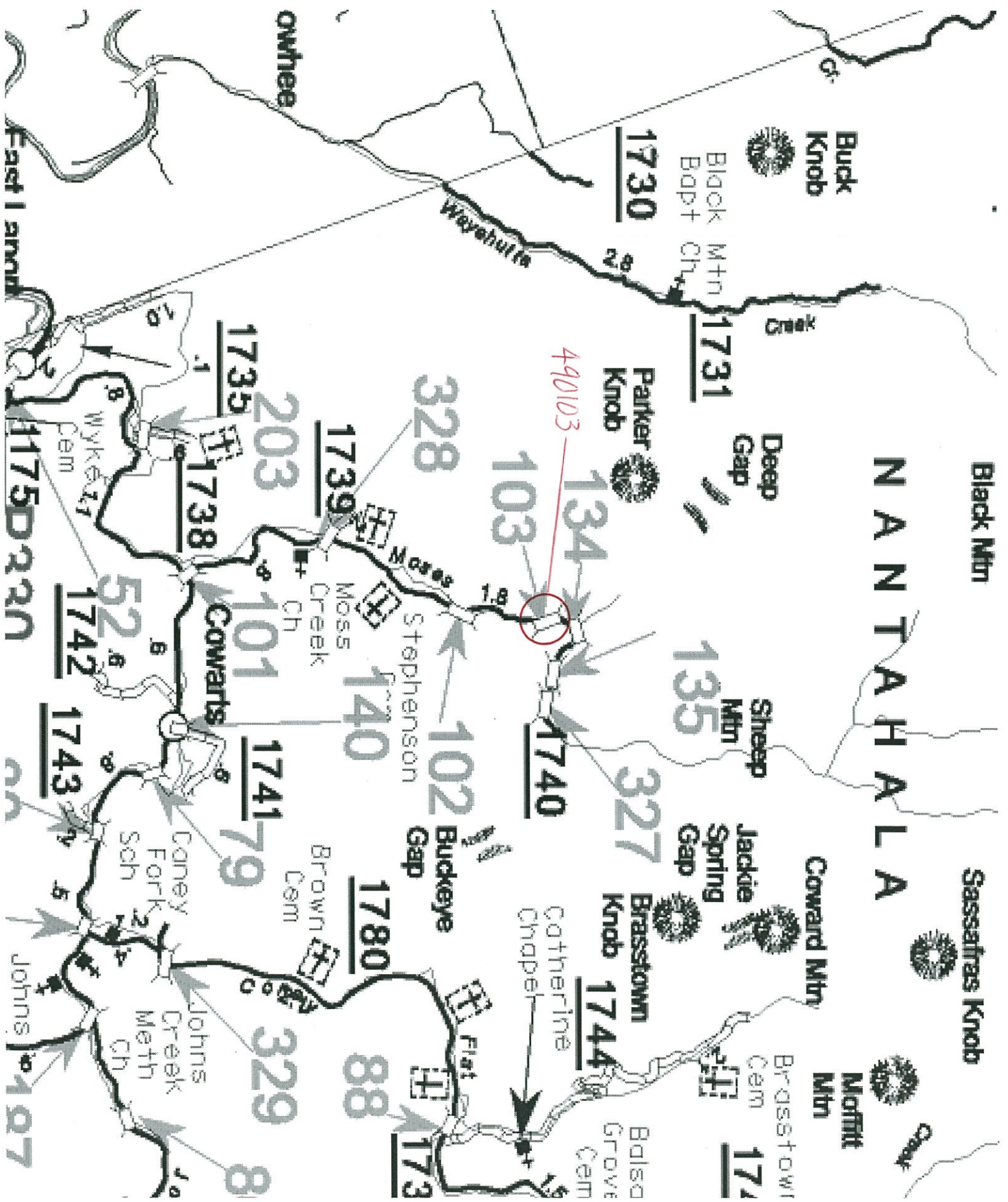
This map is derived from a map of Jackson County, North Carolina, showing bridge locations. The map is based on data from the U.S. Census Bureau, 1990 Census of Population and Housing, Census of the United States, 1990, Census of the United States, 1990, Census of the United States, 1990.

JACKSON COUNTY
NORTH CAROLINA
BRIDGE LOCATION MAP
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
INFORMATION TECHNOLOGY - GIS UNIT
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION



LEGEND
BRIDGE LOCATION
ROAD LOCATION
RIVER LOCATION
COUNTY BOUNDARY
MUNICIPALITY BOUNDARY
WATER BODY
UNIMPAVED ROAD
PAVED ROAD
RAILROAD
AIRPORT
FERRY ROUTE
STATE ROUTE
U.S. ROUTE
NATIONAL HIGHWAY
INTERSTATE
FEDERAL HIGHWAY
STATE HIGHWAY
LOCAL ROAD
UNIMPAVED ROAD
PAVED ROAD
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U.S. ROUTE
NATIONAL HIGHWAY
INTERSTATE
FEDERAL HIGHWAY
STATE HIGHWAY
LOCAL ROAD





North Carolina StreamStats

Streamstats Ungaged Site Report

Date: Tue Aug 27 2013 15:03:08 Mountain Daylight Time

Site Location: North_Carolina

NAD27 Latitude: 35.3275 (35 19 39)

NAD27 Longitude: -83.1112 (-83 06 40)

NAD83 Latitude: 35.3276 (35 19 39)

NAD83 Longitude: -83.1111 (-83 06 40)

Drainage Area: 5.99 mi²

Percent Urban: 1.1 %

Percent Impervious: 0.0 %

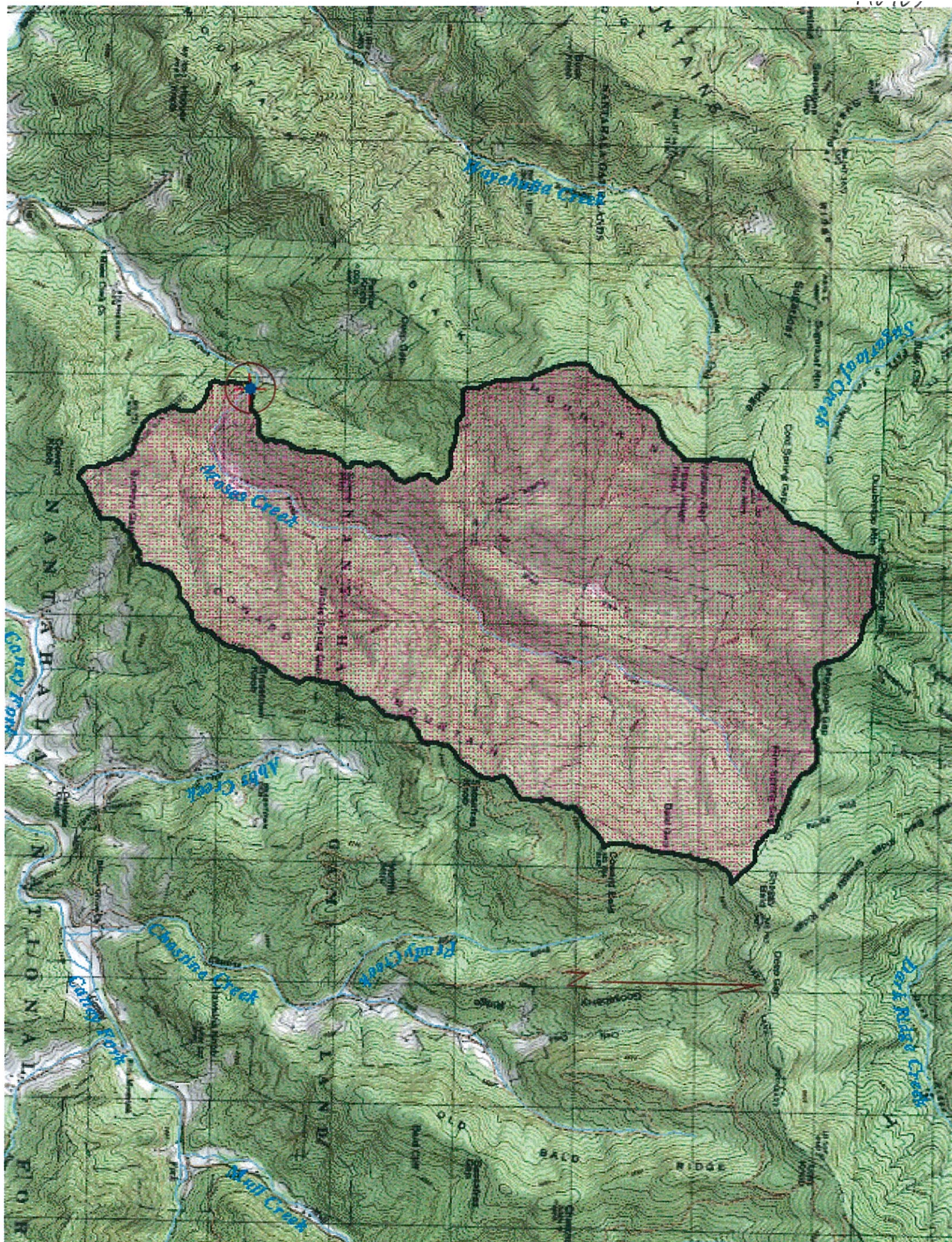
Peak Flows Region Grid Basin Characteristics			
100% Peak Southeast US 2009 5158 (5.99 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	5.99	1	9000
Percent Area in Region 1 (percent)	0.000	0	100
Percent Area in Region 2 (percent)	100.000	0	100
Percent Area 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			
100% Peak urban Blue Ridge-Piedmont FS007-00 (5.99 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	5.99	0.04	41
Area of Impervious Surfaces (percent)	0.03 (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	442	35		253	773
PK5	799	34		459	1390
PK10	1080	35		609	1910
PK25	1450	38		793	2670
PK50	1730	40		912	3280
PK100	2060	42		1050	4050
PK200	2350	44		1150	4790
PK500	2800	48		1310	6000

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	11.3				
PK5U	35.9				
PK10U	64.8				
PK25U	148				
PK50U	217				
PK100U	308				



490103



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

TEMP. REPAIR - SUPPLEMENTED ABUTMENT POST.

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY JACKSON BRIDGE NUMBER 490103 INSPECTION CYCLE 2 YRS

ROUTE SR1740 ACROSS MOSES CREEK M.P. 0

LOCATION 1.4 MI.N.JCT.SR1739

SUPERSTRUCTURE TIMBER FLOOR ON TIMBER JOISTS

SUBSTRUCTURE E.BTS: TIMBER CAPS/TIM.POST&SILLS/E.BT.1ENC.CONC.@ VAR.CTS.

SPANS 1 @ 20'-6

LONGITUDE 83° 6' 39.3"

LATITUDE 35° 19' 38.7"

PRESENT CONDITION FAIR

INVENTORY RATING

INSPECTION DATE 10/10/2011

OPERATING RATING

PRESENT POSTING SV 23 TTST 37 SIGNS MISSING

PROPOSED POSTING

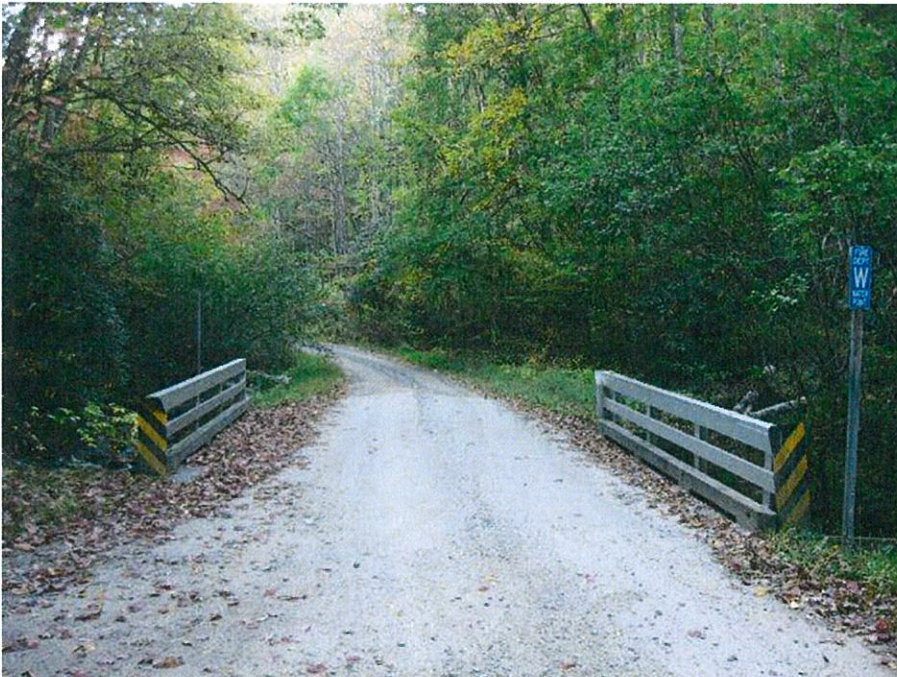
COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT DELINEATORS [4] AND ONE LANE BRIDGE [2]



LOOKING NORTH

SIGN NOTICE ISSUED FOR		NUMBERED REQUIRED
Yes	WEIGHT LIMIT	2
No	DELINEATORS	
No	NARROW BRIDGE	
No	ONE LANE BRIDGE	
No	LOW CLEARANCE	

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

COUNTY : JACKSON	DIVISION : 14	DISTRICT : 2	STRUCTURE NUMBER : 490103	LENGTH : 21 FEET
ROUTE CARRIED : SR1740		FEATURE INTERSECTED : MOSES CREEK		
LOCATED : 1.4 MI.N.JCT.SR1739		BRIDGE NAME :		CITY :
FUNC. CLASS : 09	SYST.ON : NFA	SYST.UNDER : NFA	ADT & YR : 140 2000	RAIL TYPE : LT 227 RT 227
BUILT : 1963	BY : BMU	PROJ :	FED.AID PROJ :	DESIGN LOAD : Other or Unknown
REHAB :	BY : BMU	PROJ :	ALIGNMENT : TAN	SKEW : 120
		LANES : ON 2 UNDER		
NAVIGATION : VC 0 FT	HC 0 FT	HT. CRN. TO BED : 6 FT	WATER DEPTH : 1 FT	
SUPERSTRUCTURE : TIMBER FLOOR ON TIMBER JOISTS				
SUBSTRUCTURE : E.BTS: TIMBER CAPS/TIM.POST&SILLS/E.BT.1ENC.CONC.@ VAR.CTS.				
SPANS : 1 @ 20'- 6				
BEAMS OR GIRDERS : 14 LINES 6X14 TIMBER JOISTS @ 1'-3 CENTERS				
FLOOR :		ENCROACHMENT :	DECK (OUT TO OUT) : 18.2 FT	
CLEAR ROADWAY : 17.2 FT	BETWEEN RAILS : 17.8 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 : Ext Bm	POSTED : SV 23	TTST 37 DATE 10/14/2008
SYSTEM : Secondary S.R. Route			GREEN LINE ROUTE : N	
UNDER ROUTES AND CLEARANCES				

REMARKS :

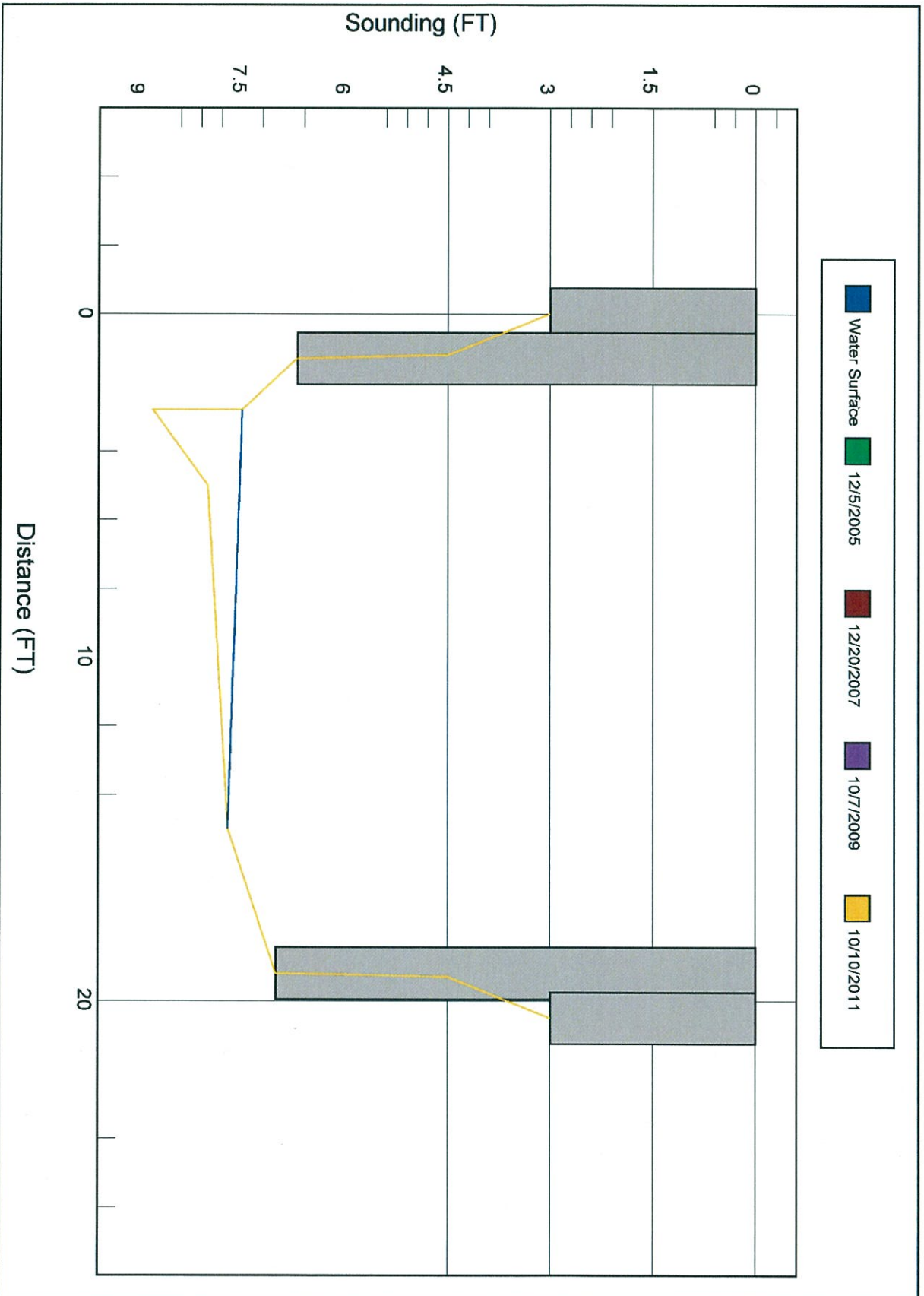
Bridge: 490103

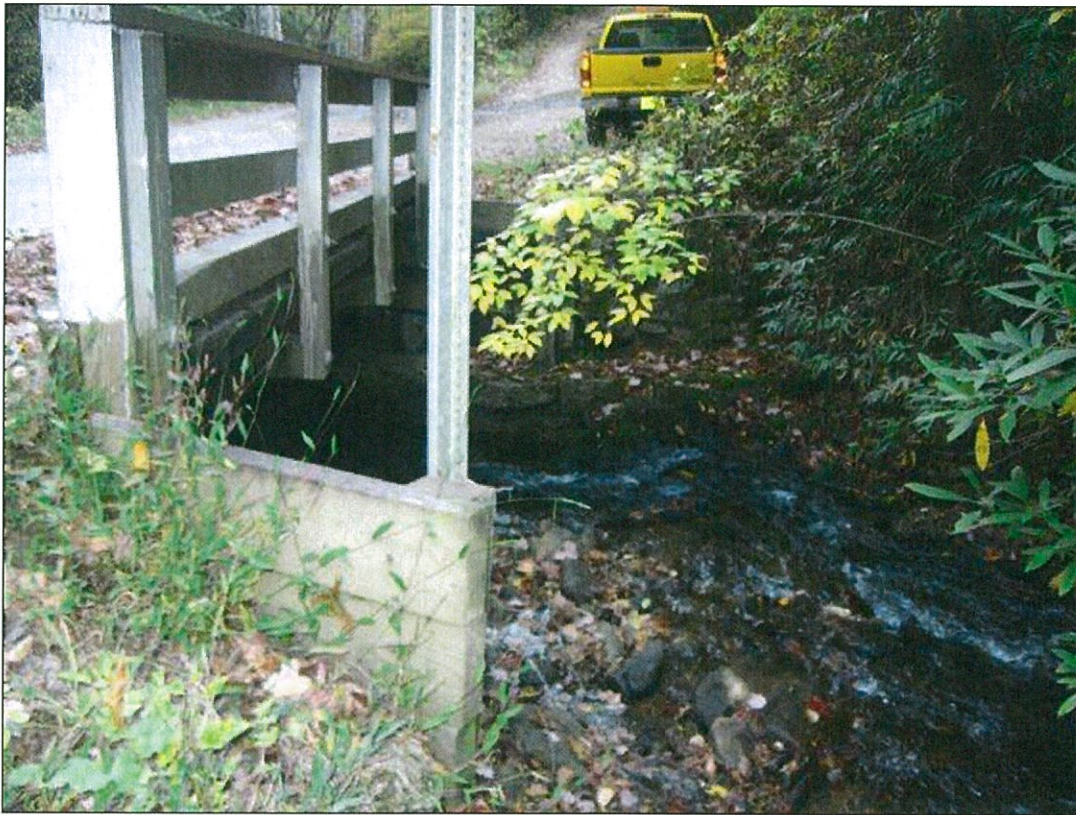
County JACKSON

Date: 10/10/2011

Top of Rail = 0 FT (Sounding)

STREAMBED PROFILE (Downstream)





DOWNSTREAM



ABUTMENT 1 - TEMP. REPAIR TO POSTS 1, 2, 3, 4, AND 5.

83° 7' 0"

308 000 M

83° 6' 30" JOINS PANEL 7660

490103

