

OFFICE ESTIMATE

1@50, 1@60, 1@50' Bridge

PREDESIGN-PRESURVEY REPORT

Project# _____
 TIP# _____
 Let Date _____
 WBS# 17BP.11.R.60 ✓

County WILKES (DIV II) ✓

Bridge# 960106 ✓
 Road# SR1300 (PARSONVILLE RD.)
 Stream N. PRONG LEWIS FORK CREEK ✓

Type Of Request: POC Force Account TIP NCMA

Date 7/11/13 Name MJY ✓Assigned To RLH ✓Checked By M. G. S 7/22/13Prior Survey Date _____ (attach copy of prior survey) BRN BK: NO CO. FILE NOStudy By Scour Section NOFlood Zone AE Detail Study LIMITED Date 3/02/09 Panel# 3900 ✓

B.M. Info _____ (7488 AC)

Quad Map PURLEAR ✓ Drainage Area 11.6 SQ. MI. ✓ From DASS ✓
 Q25 2300 cfs Q50 2900 cfs Q100 3300 cfs Method REG. EQNS. / REG. 2
2400 cfs 2900 cfs

EXISTING BRIDGE INFORMATION

Location 0.3 MI. SE. JCT. SR1360 ✓Average Daily Traffic 460 6% TRK (2010) ✓Length 120' ✓ Bed-To Crown 16' ✓ Water Depth 2' ✓Type Structure STEEL PLANK FLOOR ON I-BEAMS; TIM. CAPS, POST, & CONC. SILLS ✓Type Spans 1@ 40'-4"; 2@ 40'-0" ✓Upstream Structure 960112 1@ 30'-9", 1@ 19'-3"Location 0.3 MI. N. JCT. SR1300 ✓Bed-To Crown 9' (D=1') ✓ Prior Survey _____Downstream Structure ✓ 960104 - ROUTINE INSPECTION REPORT FILES NOT FOUND

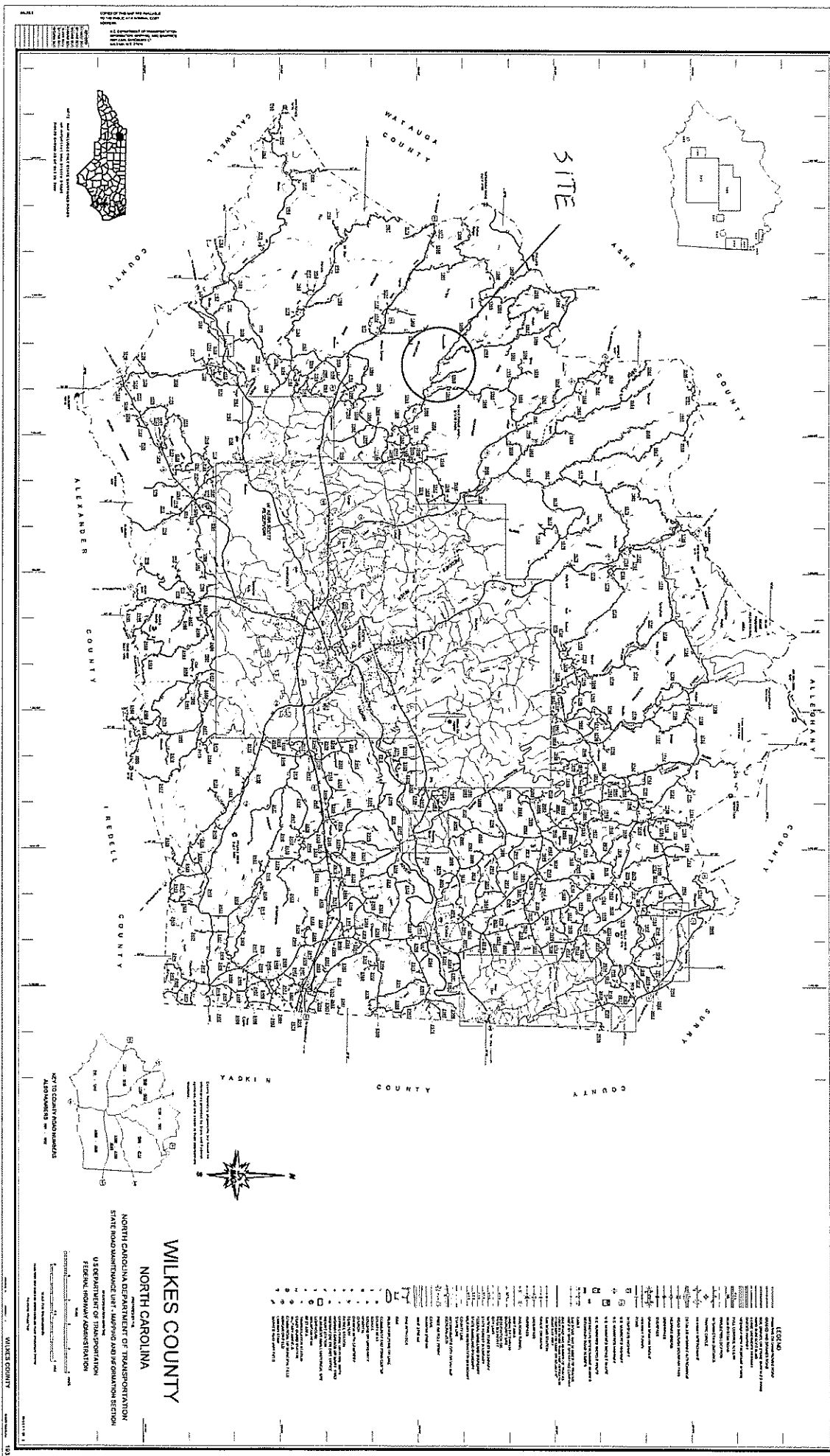
Location _____

Bed-To Crown _____ Prior Survey _____

SCS Watershed _____

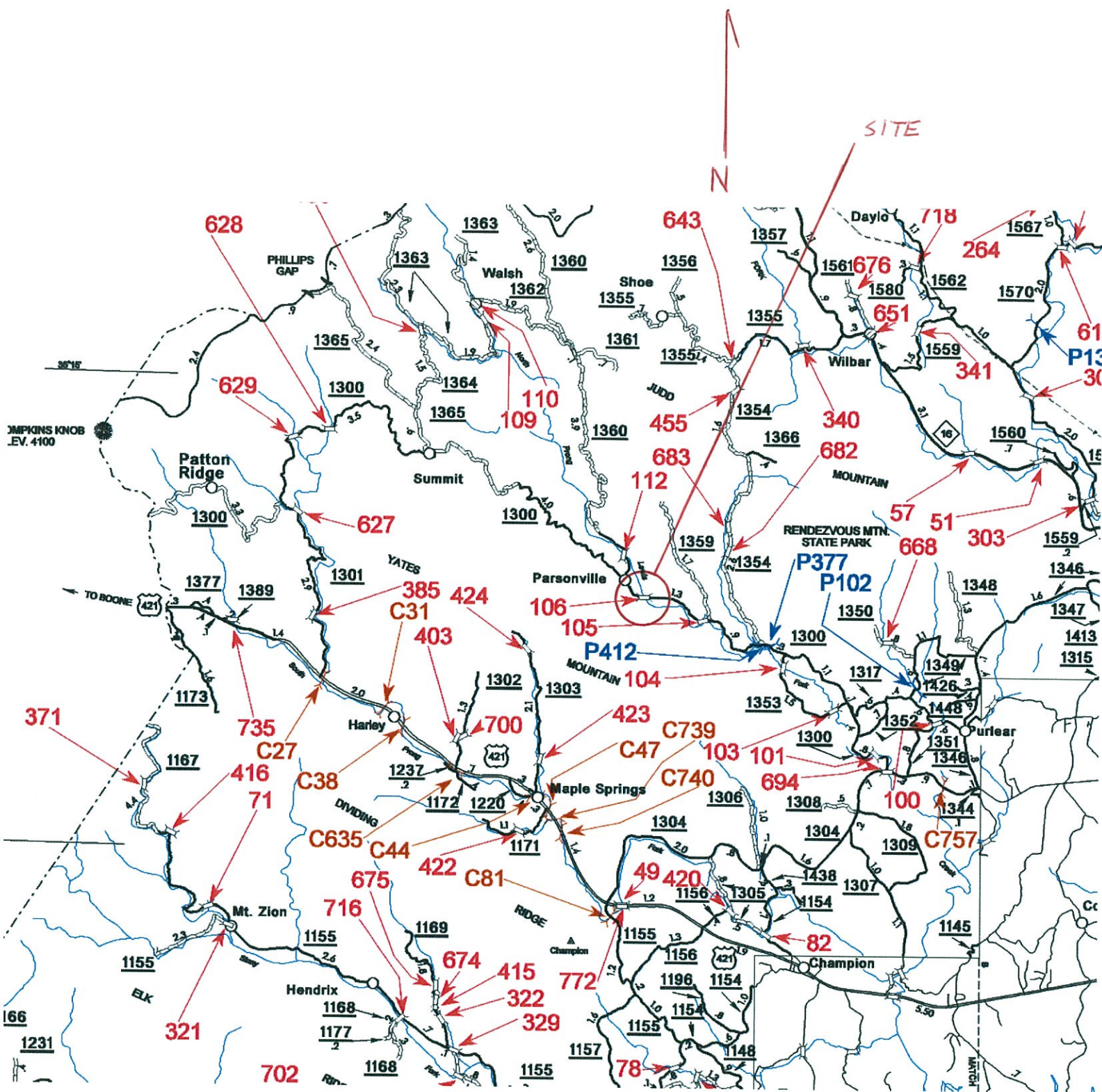
ENVIRONMENTAL

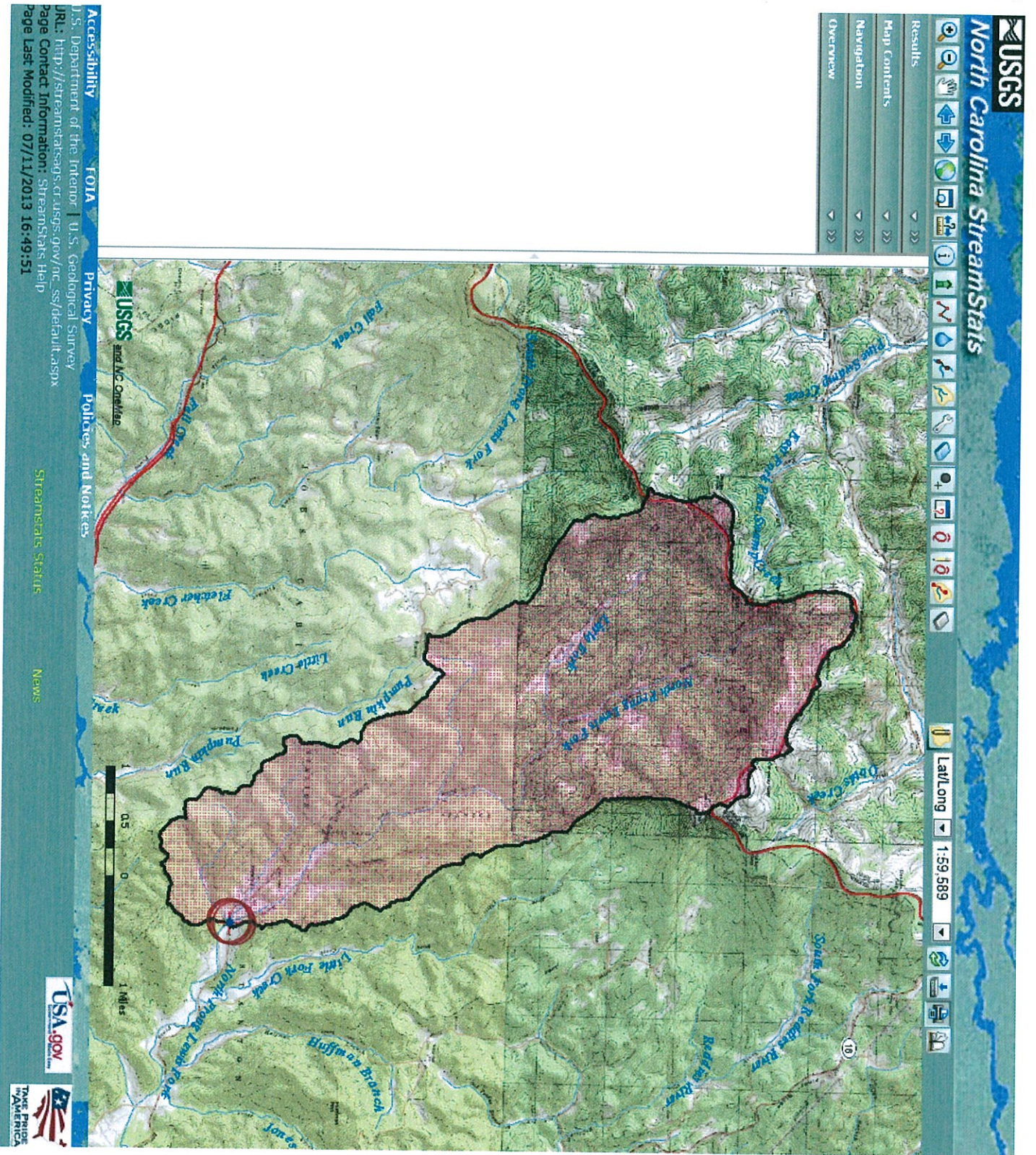
TVA NO ✓Trout Stream YES ✓Anadromous Fish NO ✓ Primary Nursery Area NO ✓High Quality Waters NONutrient Sensitive Waters NONear Water Supply Intake NOCAMA County NOStream Classification C, TR. 12-31-1-(1) ✓DENR River Basin Info. YADKIN ✓



WILKES COUNTY
NORTH CAROLINA
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 STATE ROAD MAINTENANCE UNIT - LAPPING AND RECONSTRUCTION SECTION
 U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION

- LEGEND**
- 1. Major Road (2+ lanes, paved)
 - 2. Minor Road (2+ lanes, unpaved)
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$$\frac{N}{N}$$




N

D.A.S.S. = 11.6 SQ.M



North Carolina StreamStats

Streamstats Ungaged Site Report

Date: Thu Jul 11 2013 15:14:59 Mountain Daylight Time

Site Location: North_Carolina

NAD27 Latitude: 36.2131 (36 12 47)

NAD27 Longitude: -81.3584 (-81 21 30)

NAD83 Latitude: 36.2133 (36 12 48)

NAD83 Longitude: -81.3583 (-81 21 30)

Drainage Area: 11.7 mi² - 7488 AC

Percent Urban: 4.8 %

Percent Impervious: 0.2 %

Peak Flows Region Grid Basin Characteristics			
100% Peak Southeast US 2009 5158 (11.7 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	11.7 (7488 AC)	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 (11.7 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	11.7	0.04	41
Area of Impervious Surfaces (percent)	0.15 (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	745	35		427	1300
PK5	1320	34		761	2280
PK10	1760	35		1000	3110
PK25	2360	38		1290	4320
PK50	2800	40		1480	5290
PK100	3320	42		1700	6500
PK200	3780	44		1860	7660
PK500	4490	48		2110	9560

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	55.8				
PK5U	142				
PK10U	230				
PK25U	448				
PK50U	614				
PK100U	815				



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

PRIORITY MAINTENANCE
TEMPORARY BENTS STILL IN PLACE

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection - Contract

COUNTY WILKES

BRIDGE NUMBER 960106 INSPECTION CYCLE 0 YRS

ROUTE SR1300

ACROSS N.PRONG LEWIS FORK CREEK

M.P. 0

0.3 MILE SOUTHEAST OF JUNCTION WITH SR1360

LOCATION .3 MI.SE.JCT.SR1360

SUPERSTRUCTURE STEEL PLANK FLOOR ON I-BEAMS

SUBSTRUCTURE E.BTS:TIM CAPS/P&S;INT.BTS:TIM CAPS/TIM POST&CONC.SILLS

1 @ 40'-4"; 2 @ 40'-0"

SPANS **1 @ 40'-4"; 1 @ 40'; 1 @ 40'-4**

LONGITUDE **81° 21' 29.91"**

81° 21' 29.80"

LATITUDE **36° 12' 47.96"**

36° 12' 48.00"

PRESENT CONDITION FAIR

INVENTORY RATING

INSPECTION DATE 11/09/2012

OPERATING RATING

PRESENT POSTING SV 22 TTST 27

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT (4) DELINEATORS



LOOKING EAST

SIGN NOTICE
ISSUED FOR

NUMBERED
REQUIRED

No WEIGHT LIMIT

No DELINEATORS

No NARROW BRIDGE

No ONE LANE BRIDGE

No LOW CLEARANCE

960106

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 12/17/2012

COUNTY : WILKES	DIVISION : 11	DISTRICT : 3	STRUCTURE NUMBER : 960106	LENGTH : 120 FEET
ROUTE CARRIED : SR1300		FEATURE INTERSECTED : N.PRONG LEWIS FORK CREEK		
LOCATED : .3 MI.SE.JCT.SR1360		BRIDGE NAME :		CITY :
FUNC. CLASS : 09	SYST.ON : NFA	SYST.UNDER : NFA	ADT & YR : 460 2010	RAIL TYPE : LT 233 RT 233
BUILT : 1961	BY : BMU	PROJ :	FED.AID PROJ :	DESIGN LOAD : Unknown
REHAB :	BY :	PROJ :	ALIGNMENT : TAN	SKEW : 60
			LANES : ON 2 UNDER 0	
NAVIGATION : VC 0 FT	HC 0 FT	HT. CRN. TO BED : 16 FT	WATER DEPTH : 2 FT	
SUPERSTRUCTURE : STEEL PLANK FLOOR ON I-BEAMS				
SUBSTRUCTURE : E.BTS:TIM CAPS/P&S;INT.BTS:TIM CAPS/TIM POST&CONC.SILLS				
SPANS : 1 @ 40'-4"; 2 @ 40'				
BEAMS OR GIRDERS : 10 LINES 18 I-BEAMS @ 2'-7 CENTERS				
FLOOR : STL.PLK/3 AWS	ENCROACHMENT :		DECK (OUT TO OUT) : 24.417 FT	
CLEAR ROADWAY : 24 FT	BETWEEN RAILS : 24.5 FT		SIDEWALK OR CURB : LT .2 FT RT .2 FT	
VERT.CL.OVER : 999.9 FT				
INV.RTG. : HS-1	OPE.RTG. : HS-1	CONTR.MEMBER : int bm2	POSTED : SV 13	TTST 16 DATE 12/14/2012
SYSTEM : Secondary S.R. Route			GREEN LINE ROUTE : N	
UNDER ROUTES AND CLEARANCES				

REMARKS :

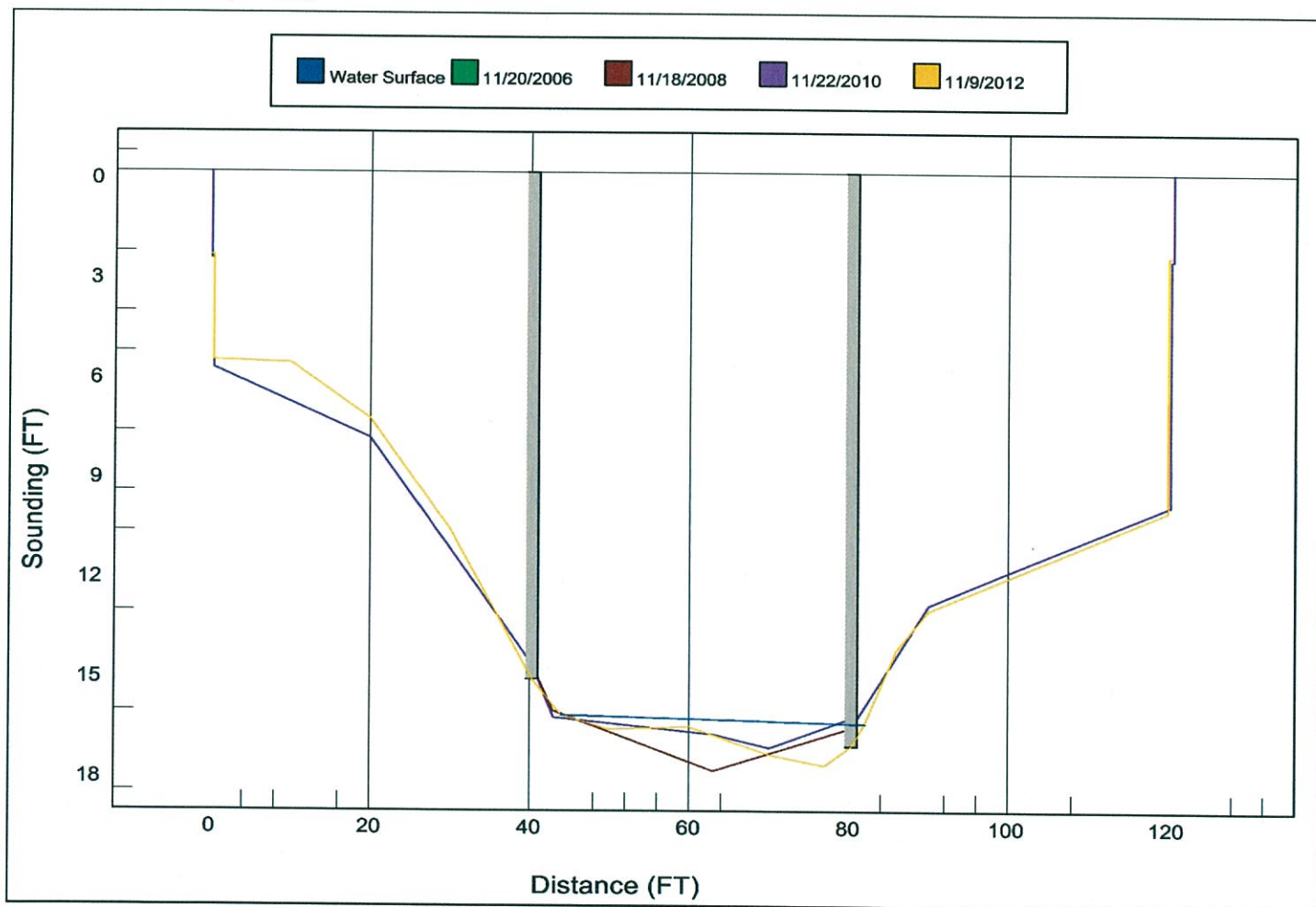
Bridge: 960106

County WILKES

Date: 11/09/2012

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)

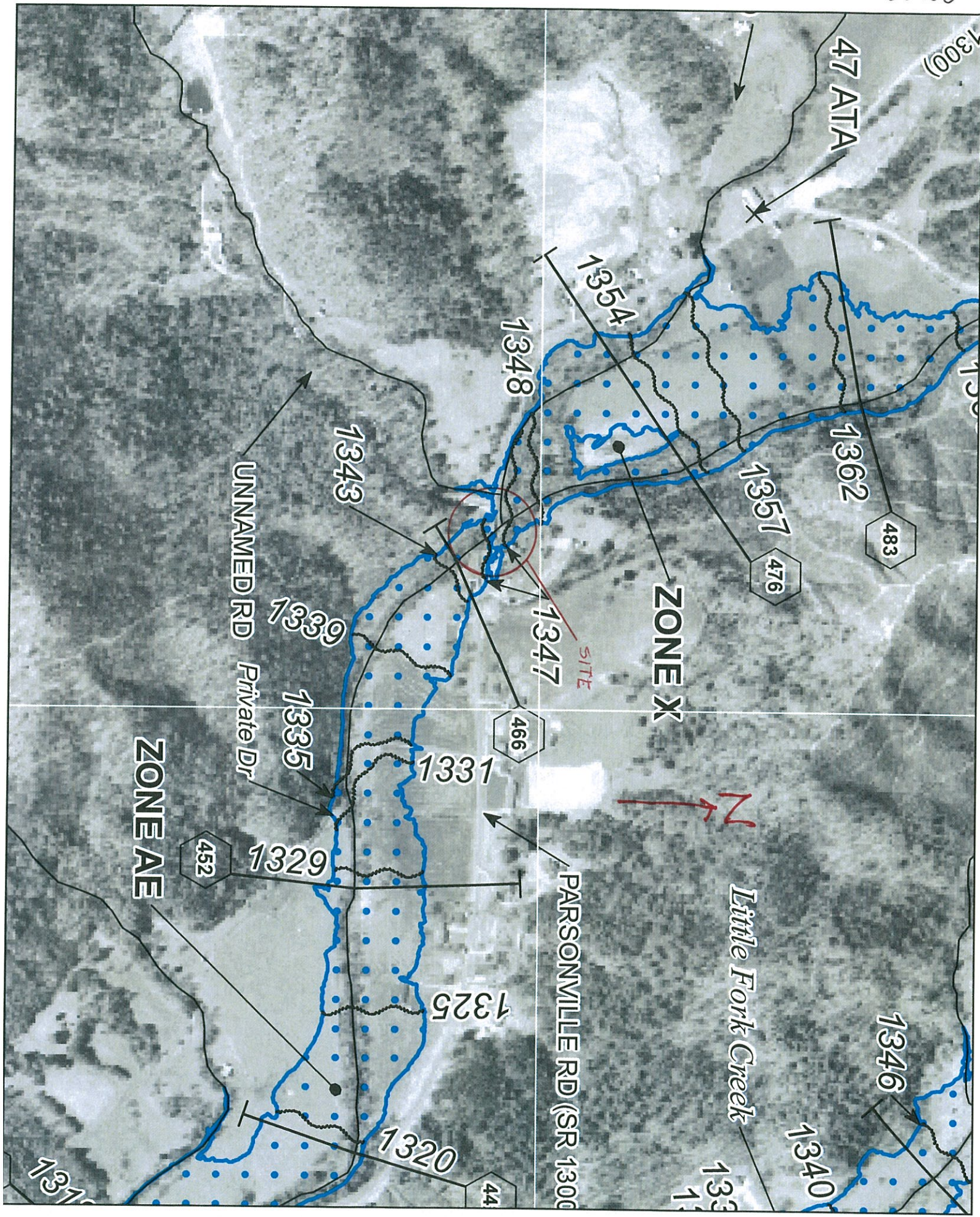




TEMPORARY BENT, MID SPAN 1 (NOT IN CONTACT WITH BEAMS)



TEMPORARY BENT, MID SPAN 2 (NOT IN CONTACT WITH BEAMS)



Section 5.0 – Engineering Methods

Table 11—Limited Detailed Flood Hazard Data

Cross Section ¹	Stream Station ²	Flood Discharge (cfs)	1% Annual Chance Water-Surface Elevation (feet NAVD 88)	Non-Encroachment Width ³ (feet)
NORTH PRONG LEWIS FORK				
361	36,147	9,349	1,278.6	25 / 97
365	36,485	9,349	1,284.2	86 / 88
368	36,800	9,349	1,286.1	128 / 64
372	37,200	9,349	1,286.8	201 / 37
377	37,697	9,273	1,287.9	50 / 410
383	38,257	9,273	1,288.2	192 / 56
385	38,512	9,273	1,289.1	352 / 111
390	38,952	9,273	1,289.8	431 / 203
395	39,519	9,273	1,291.4	235 / 173
407	40,711	9,273	1,298.0	431 / 180
414	41,401	9,273	1,300.8	18 / 332
422	42,180	7,482	1,305.7	280 / 190
431	43,095	7,482	1,311.6	93 / 171
434	43,403	7,482	1,313.8	16 / 264
442	44,178	7,366	1,319.5	15 / 265
447	44,720	7,366	1,325.0	172 / 93
452	45,207	7,366	1,328.5	150 / 65
461	46,095	7,366	1,338.4	255 / 35
466	46,622	7,366	1,343.0	90 / 60
470	46,994	7,366	1,347.5	39 / 332
476	47,600	7,366	1,353.6	27 / 578
478	47,843	7,366	1,357.4	33 / 300
483	48,324	6,663	1,362.1	20 / 184
488	48,800	6,663	1,365.8	61 / 23
492	49,202	6,663	1,374.7	30 / 86
497	49,736	6,663	1,381.3	75 / 106
502	50,192	6,663	1,385.5	176 / 116
505	50,500	6,663	1,388.0	170 / 150
509	50,855	6,663	1,393.9	54 / 255
512	51,200	6,333	1,400.1	59 / 239
516	51,600	6,333	1,404.9	112 / 87
520	52,000	6,333	1,412.3	136 / 95
525	52,477	6,333	1,421.1	172 / 18
529	52,925	6,333	1,428.6	224 / 64
532	53,200	6,155	1,433.7	107 / 51
536	53,600	6,155	1,443.4	51 / 30
540	54,000	6,155	1,453.4	50 / 46
544	54,400	6,155	1,469.4	30 / 31
548	54,800	6,155	1,487.5	43 / 24
552	55,200	6,155	1,500.6	32 / 48
556	55,600	6,155	1,509.3	46 / 60
560	56,000	6,155	1,516.4	64 / 93
564	56,400	6,155	1,527.6	92 / 36
568	56,800	6,051	1,535.4	50 / 61
572	57,200	6,051	1,549.7	33 / 43
576	57,600	5,832	1,561.4	30 / 80
580	58,000	5,832	1,573.5	44 / 26

RIVER STA.: 46795 BR U ✓

North Prong Lewis Fork Limited Detail Study	Plan: Floodway Run	4/26/2007
Parsonville Road 2 (NPLF) forStructure ID: LDS_NPLF_09Approxim		

