

OFFICE ESTIMATE

1@ 70' Bridge

PREDESIGN-PRESURVEY REPORT

Project# _____

TIP# _____

Let Date _____

WBS# 17BP.11.R.64County WILKES (DIV 11)Bridge# 960187Road# SR 2340 (FISHING CRK. RD)Stream FISHING CRK.

Type Of Request: POC Force Account TIP NCMA

Date 7/16/13 Name MSYAssigned To RCHChecked By M. G. S. 7/22/13✓ Prior Survey Date _____ (attach copy of prior survey) ✓ BRN BK: NO CD. FILE NO✓ Study By Scout Section NOFlood Zone AE Detail Study LIMITED Date 3/02/09 Panel# 3888 ✓

B.M. Info _____

✓ Quad Map ROARING RIVER Drainage Area 7.48 SR. ML From DASS ✓Q25 1800 cfs Q50 2200 cfs Q100 2600 cfs Method REG. EQNS./REG. ISTA: 211208100

(see attached sheet)

EXISTING BRIDGE INFORMATION

Location 0.4 MI. E. JCT. SR 2318Average Daily Traffic 900 6% TRK (2008)Length 46' Bed- To Crown 12' Water Depth 1'Type Structure TIM. FLOOR ON I-BEAMS, TIM. CAPS, POST, & SILLSType Spans 1@ 45'-6"Upstream Structure 960748Location 0.5 MI. E. JCT. SR 2338Bed- To Crown 15' (D=1') Prior Survey _____Downstream Structure 960188Location 1.3 MI. W. JCT. SR 2325Bed- To Crown 14' (D=2') Prior Survey _____

SCS Watershed _____

ENVIRONMENTAL TVA NOTrout Stream NO ✓Anadromous Fish NO Primary Nursery Area NOHigh Quality Waters NO Nutrient Sensitive Waters NONear Water Supply Intake NO CAMA County NOStream Classification C 12-44 12-44DENR River Basin Info. YADKIN



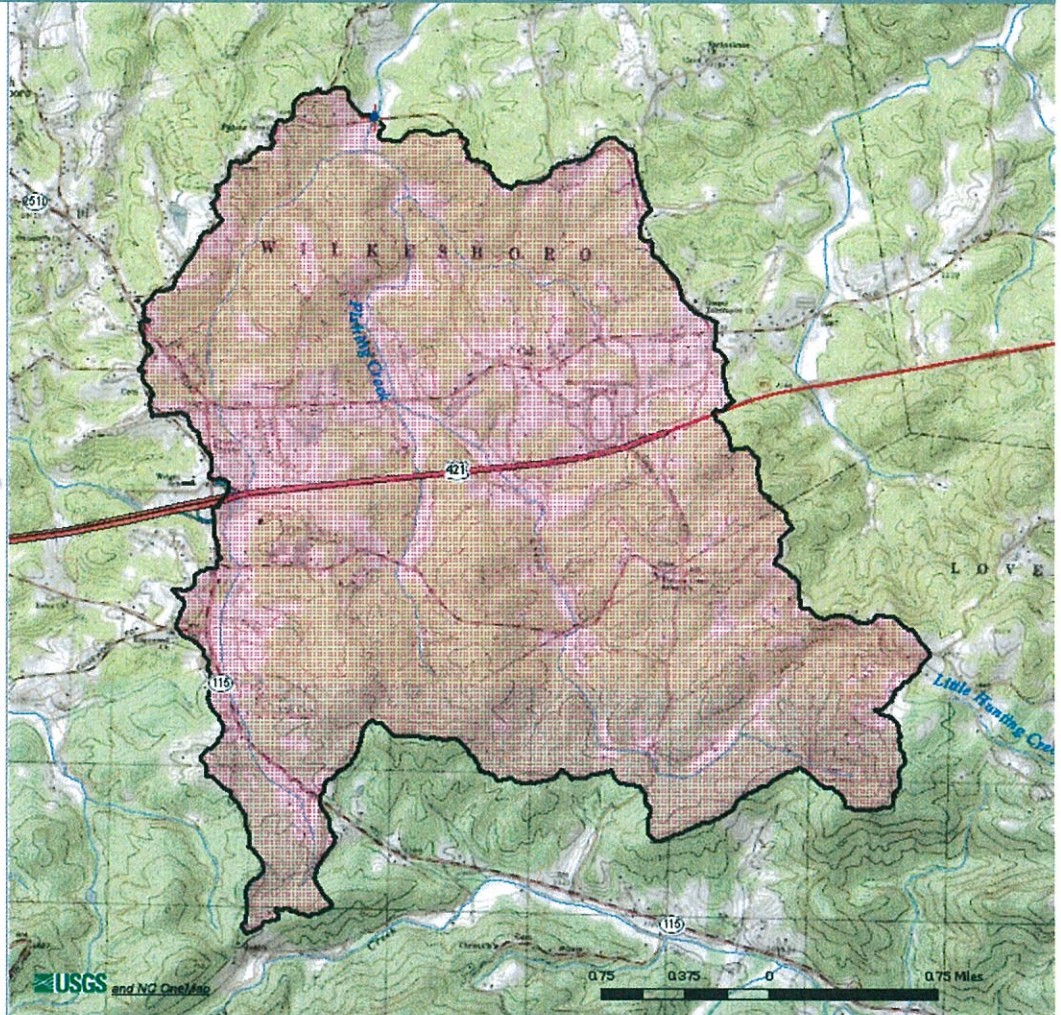


North Carolina StreamStats



Lat/Long 1:35,379

- Results >>
- Map Contents >>
- Navigation >>
- Overview >>



Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
URL: http://streamstats.cr.usgs.gov/nc_ss/default.aspx
Page Contact Information: StreamStats Help
Page Last Modified: 07/16/2013 11:12:48

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



	REGION 1	REGION 2
Q25	1817.853	1708.393
Q50	2210.764	2031.407
Q100	2564.244	2414.125

D.A. =

7.48

← from DASS (E.s.m)



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY WILKES BRIDGE NUMBER 960187 INSPECTION CYCLE 2 YRS
ROUTE SR2340 ACROSS FISHING CREEK M.P. 0

LOCATION .4 MI.E.JCT.SR2318

SUPERSTRUCTURE TIMBER FLOOR ON I-BEAMS

SUBSTRUCTURE E.BTS:TIMBER CAPS/TIMBER POST&SILLS @ 5'-3 CENTERS

SPANS 1 @ 45'-6

LONGITUDE 81° 5' 22.4"

LATITUDE 36° 9' 50.8"

PRESENT CONDITION FAIR

INVENTORY RATING

INSPECTION DATE 02/23/2011

OPERATING RATING

PRESENT POSTING SV 16 TTST 20

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT 4 DELIN. 1 NARROW BR.



LOOKING NORTH

SIGN NOTICE
ISSUED FOR

NUMBERED
REQUIRED

No

WEIGHT LIMIT

No

DELINEATORS

Yes

NARROW BRIDGE

1

No

ONE LANE BRIDGE

No

LOW CLEARANCE



BRIDGE MANAGEMENT UNIT
DATA ON EXISTING STRUCTURE

Run Date: 03/22/2011

COUNTY : WILKES		DIV : 11		DIST : 3		STRUCTURE NUMBER : 960187		LENGTH : 46 FEET	
ROUTE CARRIED : SR2340				FEATURE INTERSECTED : FISHING CREEK					
LOCATED : .4 MI.E.JCT.SR2318				BRIDGE NAME :				CITY :	
FUNC. CLASS : 09		SYST.ON : NFA		SYST.UNDER : NFA		ADT & YR : 900 2008		RAIL TYPE : LT 227 RT 227	
BUILT : 1961		BY : BMU		PROJ :		FED.AID PROJ :		DESIGN LOAD : Other or Unknown	
REHAB :		BY :		PROJ :		ALIGNMENT : TAN		SKEW : 120	
								LANES : ON 2 UNDER	
NAVIGATION : VC 0.0 FT HC 0.0 FT				HT. CRN. TO BED : 12 FT				WATER DEPTH : 1 FT	
SUPERSTRUCTURE : TIMBER FLOOR ON I-BEAMS									
SUBSTRUCTURE : E.BTS:TIMBER CAPS/TIMBER POST&SILLS @ 5'-3 CENTERS									
SPANS : 1 @ 45'-6									
BEAMS OR GIRDERS : 8 LINES 18 I-BEAMS @ 2'-7 CENTERS									
FLOOR : 4X8 TIM/2.5 AWS		ENCROACHMENT :				DECK (OUT TO OUT) : 20.1 FT			
CLEAR ROADWAY : 19.1 FT		BETWEEN RAILS : 19.8 FT				SIDEWALK OR CURB : LT 0.3 FT RT 0.3 FT			
VERT.CL.OVER : 99 FT 99 IN		VERT.CL.UNDER : 00 FT 00 IN				HOR.CL.UNDER : 0.0 FT			
INV.RTG. : HS-7		OPE.RTG. : HS-12		CONTR.MEMBER : IntBeam		POSTED : SV 16		TTST 20 DATE 10/29/2008	
SYSTEM : Secondary S.R. Route						GREEN LINE ROUTE : N			
2ND OPENING :		3RD OPENING :		4TH OPENING :		5TH OPENING :			
REMARKS :									

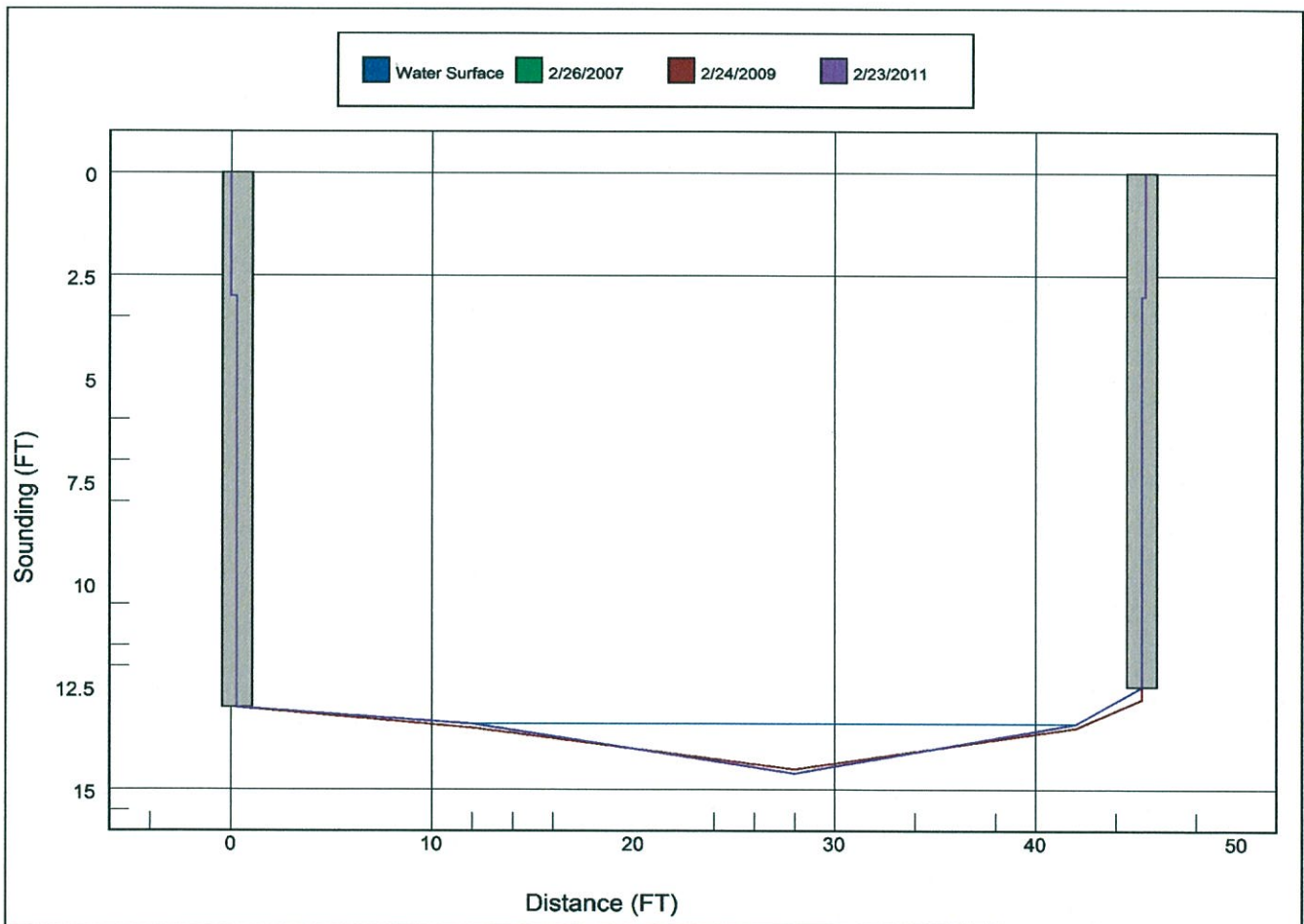
Bridge: 960187

County: WILKES

Date: 02/23/2011

STREAMBED PROFILE (Downstream)

Top of Rail = 0 FT (Sounding)





LOOKING SOUTH



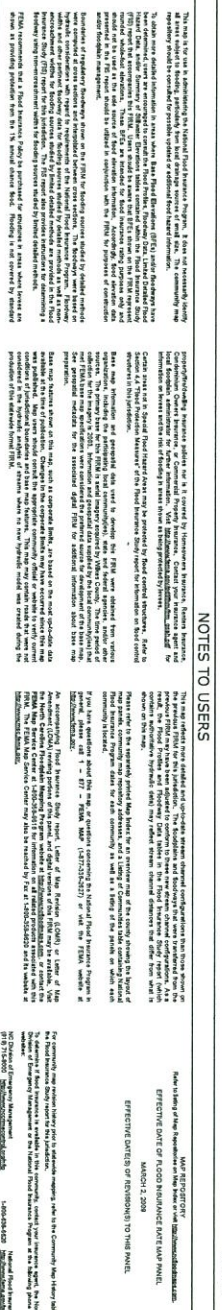
LOOKING DOWNSTREAM

At various times in the Flood Hazard Data tables were edited by hand with missing data filled in. Other Flood Hazard data shown on this map may not be the most current. For more information on the flood data and how it is collected, see information on the flooding statistics located by these addresses is contained in the Flood Insurance Study Report.

FLOOD HAZARD DATA TABLE				
Case Number	Road	100 Year Flood Zone	100 Year Flood Zone	
Station	Station	Station	Station	
Station	Station	Station	Station	
Station	Station	Station	Station	
11125	11124.848	39.405	89.51	280.275
11145	11144.457	39.400	89.52	780.775

FLOOD HAZARD DATA TABLE				Wetlands by Watershed (cont.)
Watershed Designation	Stream Segment Designation	Flood Damage (in \$)	% Annual Chance of Flood (100-year return period) (based on FEMA Flood Map 1501)	Land/Designation of the Center of Watershed (see Watershed Description) Total Flooded Wetlands by Watershed
TADON RIVER				
111252	1, 111, 544	29,400	90.1	2862 / 270
111403	1, 111, 403	29,400	95.0	760 / 175

The Gulf of Mexico Insurance Risk Map (GIRM) was produced through a unique cooperative partnership between the states of North Carolina and the Federal Emergency Management Agency (FEMA). The state of North Carolina has been successful in obtaining FEMA's assistance in the development of the GIRM, an innovative tool for assessing coastal flood risk. This is acknowledged by the states' acknowledgment to FEMA that the job was in a Cooperative Federal States agreement with FEMA to produce and maintain the final GIRM.



SPECIAL FLOOD HAZARD AREAS (SFHA) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD EVENT

The 1% annual chance flood (500-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AO, AH, A99, V, and VE. The Base Flood Elevation is the watermarks elevation of the 1% annual chance flood.

ZONE A No Base Flood Elevation determined.

SPECIAL FLOOD HAZARD AREAS (SFHA) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD EVENT

The 1% annual chance flood (500-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AO, AH, A99, V, and VE. The Base Flood Elevation is the watermarks elevation of the 1% annual chance flood.

ZONE A No Base Flood Elevation determined.

[illegible]

The following is the standard of a return plus any additional floodplain areas that must be kept free of encroachments so that the 1% annual chance flood can be stored without substantial increases in flood heights.

FLOODPLAIN AREAS IN ZONE A:

ZONE X  Other flood plain areas

Rates of 0.2% annual chance flood; rates of 1% annual chance flood with average depths of less than 1 foot or with no change are less than 1-2 feet more; and areas protected by levees from 1% annual chance flood.

OTHER FLOOD AREAS

ZONE X  Other flood plain areas

Rates of 0.2% annual chance flood; rates of 1% annual chance flood with average depths of less than 1 foot or with no change are less than 1-2 feet more; and areas protected by levees from 1% annual chance flood.

OTHER FLOOD AREAS

ZONE X  Other flood plain areas

Rates of 0.2% annual chance flood; rates of 1% annual chance flood with average depths of less than 1 foot or with no change are less than 1-2 feet more; and areas protected by levees from 1% annual chance flood.

OTHER FLOOD AREAS

ZONE D  Areas to which flood hazards are undetermined, but probable.

Areas to which flood hazards are undetermined, but probable.

[illegible]

Base pair positions and label locations in water-soluble poly(2-vinylpyridine) (P2VP) (M_n 42,700) (EL 487)
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Revised Standard Survey Levels mark. For more information visit
<http://www.irs.gov/efile>
 or call 1-800-829-1040. Contact: Public e-Communications Unit
 IRS e-file Support Center
 1111 W. Walnut Street, Suite 100
 Denver, CO 80202-1500
 Phone: (303) 827-1300
 Fax: (303) 827-1300
 Email: efile@irs.gov

Know It All

[illegible]

FIRM
FLOOD INSURANCE RATE MAP
NORTH CAROLINA
PANEL 3888

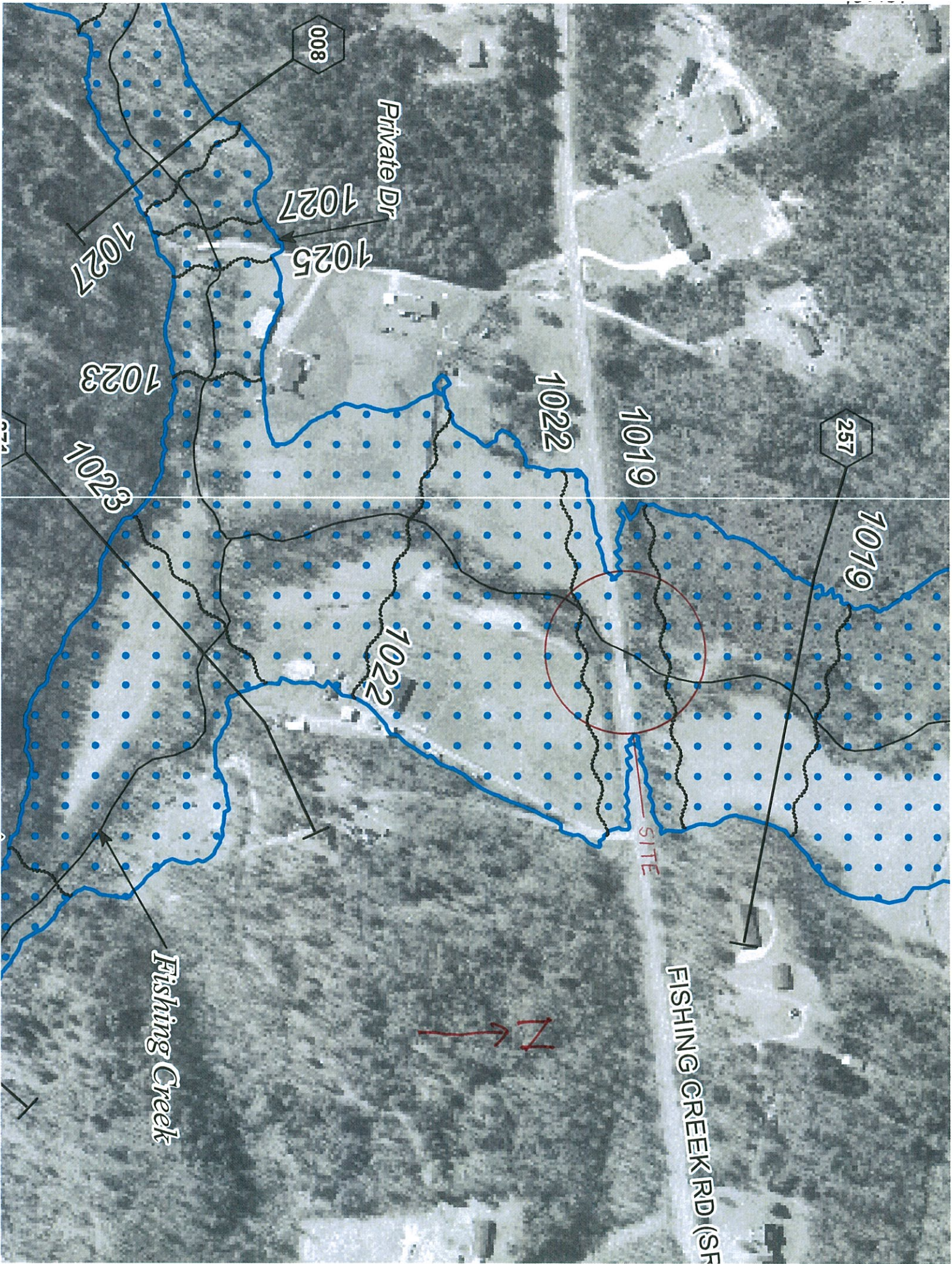
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ONAL FLOOD

NOTICE TO THE "MAP NUMBER" owner: Please contact the local floodplain administrator for more information. The "MAP NUMBER" should be used on all property applications for the United States.

EFFECTIVE DATE **MAP NUMBER**
MARCH 2, 2009 **3710388800J**

NATIONAL
State of North Carolina
Federal Emergency Management Agency



008

Private Dr

1027

1025

1027

1023

1021

1022

1019

257

1019

1022

SITE

Fishing Creek

FISHING CREEK RD (SH



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)
FISHING CREEK				
232	23,245	5,618	1,009.3	67 / 62
236	23,603	5,618	1,011.1	97 / 158
240	24,047	5,618	1,011.9	65 / 207
245	24,544	5,618	1,013.0	140 / 95
250	24,981	5,618	1,014.3	110 / 37
257	25,713	5,618	1,019.0	72 / 202
265	26,526	5,618	1,022.0	60 / 184
271	27,147	4,523	1,023.2	200 / 17
277	27,709	4,523	1,027.4	115 / 30
281	28,058	4,523	1,031.9	70 / 16
285	28,506	4,523	1,038.1	80 / 30
291	29,138	3,832	1,041.7	16 / 100
297	29,662	3,832	1,044.2	47 / 69
301	30,129	3,832	1,045.6	16 / 42
305	30,500	3,832	1,048.8	45 / 50
309	30,912	3,832	1,050.4	65 / 125
313	31,331	3,832	1,050.7	69 / 180
319	31,935	3,832	1,051.0	91 / 108
326	32,575	3,832	1,052.0	16 / 186
330	32,976	3,832	1,053.4	22 / 68
332	33,154	3,832	1,056.9	124 / 45
338	33,837	3,832	1,058.9	72 / 25
344	34,364	3,832	1,061.0	67 / 50
349	34,856	3,832	1,062.4	70 / 154
352	35,209	3,832	1,062.7	55 / 220
354	35,386	3,832	1,062.8	37 / 223
356	35,574	3,832	1,063.2	81 / 176
FISHING CREEK TRIBUTARY 1				
001	89	5,447	945.1 ⁴	22 / 80
004	374	5,447	945.1 ⁴	31 / 38
006	581	5,447	948.3	25 / 42
007	702	5,447	948.4	32 / 27
008	813	5,447	949.5	12 / 39
009	934	5,447	953.1	20 / 63
012	1,164	5,447	953.5	16 / 100
014	1,366	5,447	959.2	60 / 120
015	1,524	5,447	959.7	44 / 120
018	1,769	5,447	960.2	138 / 8
022	2,205	5,447	960.3	50 / 12
024	2,403	5,447	967.5	47 / 19
026	2,583	5,447	971.3	40 / 25
027	2,735	5,447	971.9	37 / 24
029	2,914	5,447	974.9	50 / 59
032	3,180	5,447	976.5	76 / 125
033	3,266	5,447	976.5	85 / 92
035	3,463	5,447	976.5	55 / 73
036	3,648	5,447	976.6	29 / 61

TR. STA.
6,061 BR. J.

RIVER STA.: 26061 BR. U.

Fishing Creek Limited Detail Study Plan: Floodway Run 8/20/2007
Fishing Creek Rd (Fish) TOR Structure ID: LDS_FC_05A approximate

