

OFFICE ESTIMATE

1 @ 45, 1 @ 55, 1 @ 45' Bridge

PREDESIGN-PRESURVEY REPORT

County WILKES

Type Of Request: POC Force Account TIP NCMA

Date 7/24/13 Name M. G. S.

Assigned To _____

Checked By 7-25-13 Wsh

Prior Survey Date 1-1971 (attach copy of prior survey)

BRN BK: Yes CD. FILE Yes

Study By Scour Section NONE ^{COPY attached}

3 @ 45'

Flood Zone AE Detail Study limited Date 2/9/09 Panel# 3986

B.M. Info + Glad Valley

Quad Map Trophill Drainage Area 17.6 sq. mi From DASS STA: 211211646 ✓

Q25 3200 cfs ✓ Q50 3800 cfs ✓ Q100 4500 ✓ Method Regression Equ.
RURAL - REGION 2

EXISTING BRIDGE INFORMATION

Location 25 ft. E. JCT. SR 1742

Average Daily Traffic 740 YR: 2008 TRK 6%

Length 136 ft. Bed-To Crown 16 ft. Water Depth 1 ft.

Type Structure Steel plank floor on 1-Beams

Type Spans 1 @ 45'-6" 1 @ 45' 1 @ 45'-6"

Upstream Structure 960786 (Gravel drive) 1 @ 7'-6"

Location 0.7 mi. N. JCT. SR 1737

Bed-To Crown 12 ft. WD: 4 ft. Prior Survey _____

Downstream Structure 960218 (on SR 1743) 1 @ 42'-8"

Location 90 ft. E. JCT. SR 1742

Bed-To Crown 7 ft. WD: 2 ft. Prior Survey _____

SCS Watershed N/A

YES HATCHERY SUPPORTED ✓ 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 B; Tr ✓ 12-46-4-(7) (from Wilkes county SR 1737 to

DENR River Basin Info. Yard Kim ✓ Wilkes county SR 1943

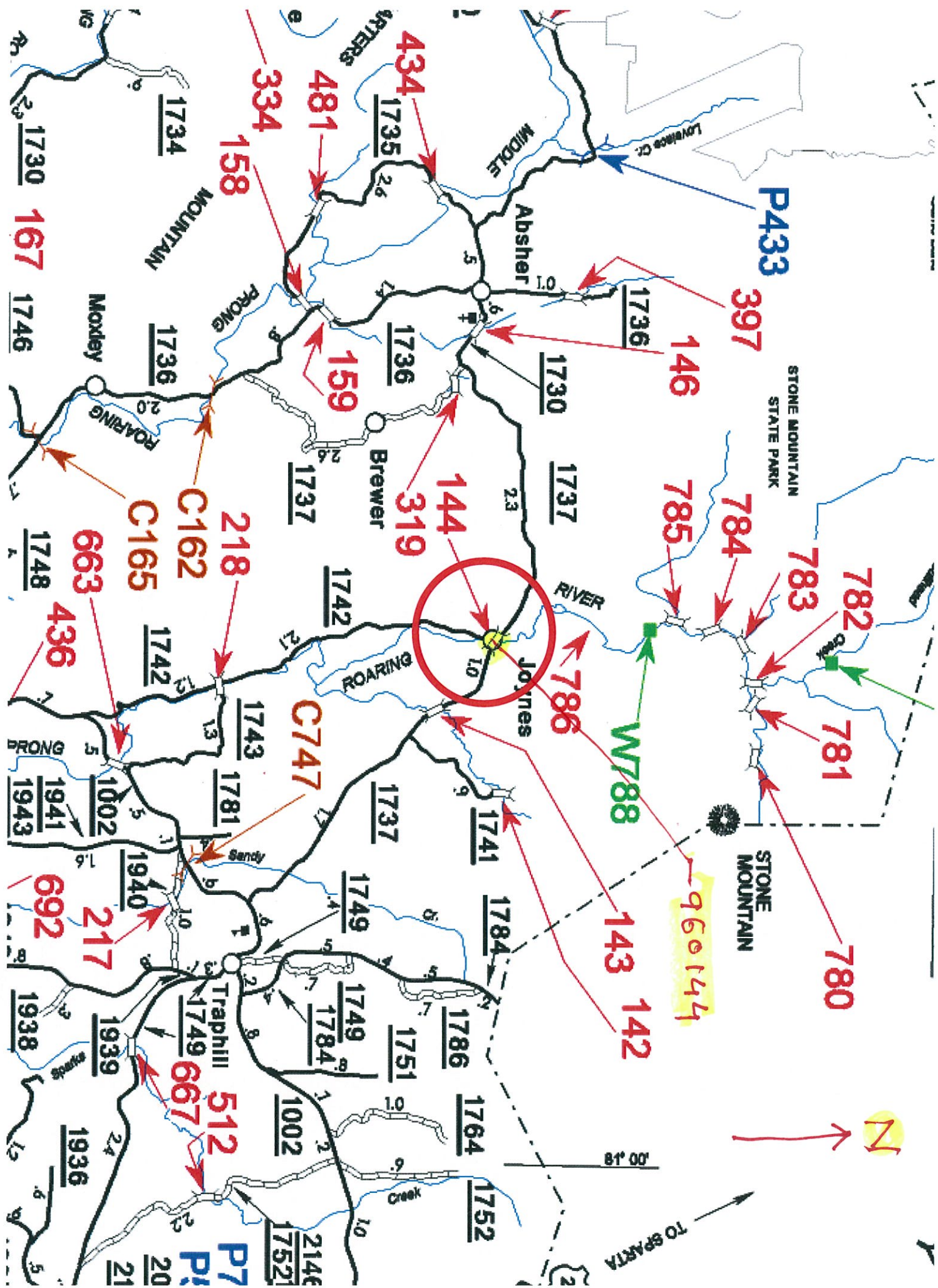


The hydro contained in this map is from USGS 1:100,000 DLG files that have been edited using the USGS 1:24,000 DOQQs.

ALSO NUMBERS IN •

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	52
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WALKER COUNTY



All persons listed in the Flood Hazard Data Table below were studied by detailed methods using field surveys. Other flood hazard data shown on this map may have been derived using either a coastal analysis or limited detailed flood analysis was conducted. More information on the flooding sources studied by these analyses is contained in the Flood Insurance Study report.



This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources at small scale. The community map, if available, should be consulted for possible updated or additional flood hazard information.

of the report should be considered. These lifts are intended for food insurance only and should not be used as the sole source of food elevation information. Accordingly, food elevation data presented in this FTR should be utilized in conjunction with the data for purposes of construction presented in the report.

with and other pertinent bodyweight data for feeding sources studied by standard methods as well as non-standard methods for feeding sources studied by limited standard methods are provided in the Food Research Institute (FRI) report for this jurisdiction. The FRI report also provides instructions for determining bodyweight using non-standard weights for feeding sources studied by limited standard methods.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 4.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures.

For the assessment of the digital FLEAM, additional information about data map preparation, data specifications were considered the preferred source for development of the data map. See [geodata.gov](#) for the associated digital FLEAM for additional information about data map preparation.

conditions of jurisdictional boundaries and base map features. This map may contain trade that were not considered in the hydrologic analysis of streams where a new hydrologic model was created during the distribution of this statewide format. This map reflects more detailed and up-to-date stream thalwegs.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of roads, geographical features, and other information. This map is a supplement to the main map and is not intended to be used in conjunction with the main map. It is a separate map and should be used as such.

general, glass cat # = 877 = FEMA MAP (1-877-255-6277) or visit the FEMA website <http://www.fema.gov>.

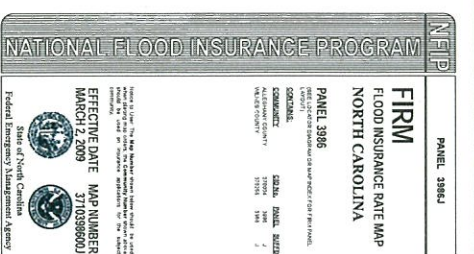
bioRxiv preprint doi: <https://doi.org/10.1101/2019.04.10.332474>; this version posted April 11, 2019. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

MARCH 2, 2025

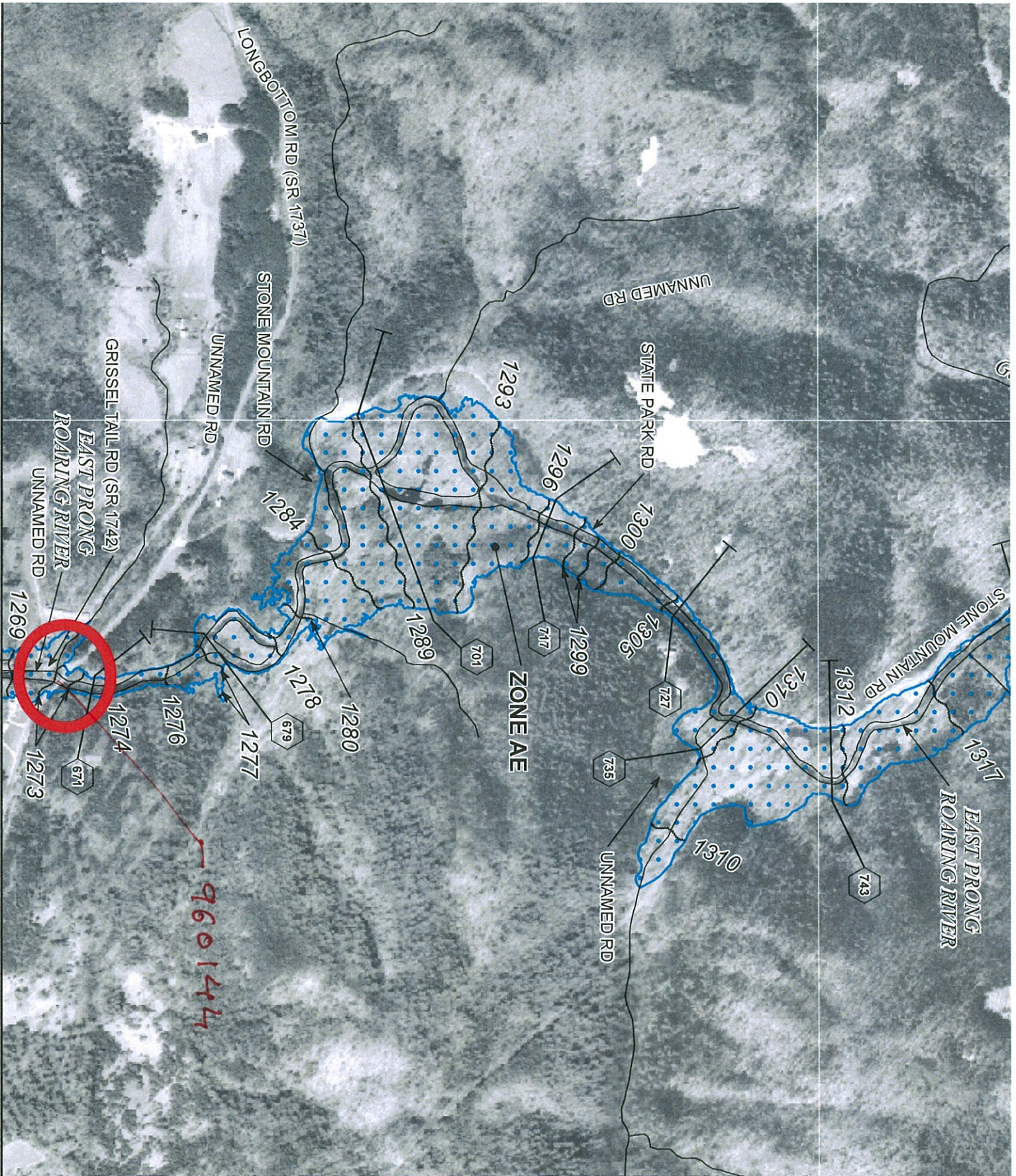
RESPECTIVE DATES OF REDUCTIONS TO THIS PANEL

Mc Division of Emergency Management
919-716-8000 mcemc@ncem.state.nc.us

National Flood Insurance Program
1-800-426-4229
<http://www.fema.gov/nfip>

[illegible]

2 →



JOINS PANEL 3984

81°04'00"

10,000 ft

Section 4.0 – Area Studied

Table 6—Flooding Sources Studied by Detailed Methods: Limited Detailed

Source	Riverine Sources		Affected Communities
	From	To	
Double Creek Tributary 1	The confluence with Double Creek	Approximately 0.5 mile upstream of confluence with Double Creek	Wilkes County (Unincorporated Areas)
Dugger Creek	The confluence with Elk Creek	Approximately 1,170 feet upstream of Elk Creek Darby Road (SR 1162)	Wilkes County (Unincorporated Areas)
East Prong Roaring River	The confluence with Roaring River	Approximately 2.8 miles upstream of Longbottom Road (SR 1737)	Wilkes County (Unincorporated Areas)
East Swan Creek	The confluence with Swan Creek	Approximately 0.9 mile upstream of the confluence with Swan Creek	Wilkes County (Unincorporated Areas)
Elk Creek	The confluence with Yadkin River	The Watauga/Wilkes County boundary	Wilkes County (Unincorporated Areas)
Elk Creek Tributary 1	The confluence with Elk Creek	Approximately 0.8 mile upstream of Elk Creek Darby Road (SR 1162)	Wilkes County (Unincorporated Areas)
Elk Creek Tributary 2	The confluence with Elk Creek	Approximately 1040 feet upstream of Meadow Road	Wilkes County (Unincorporated Areas)
Elkin Creek	The Surry/Wilkes County boundary	Approximately 700 feet upstream of Union Community Road (SR 1919)	Wilkes County (Unincorporated Areas)
Elkin Creek Tributary 1	The confluence with Elkin Creek	Approximately 0.7 mile upstream of State Road 1910	Wilkes County (Unincorporated Areas)
Fishing Creek	The confluence with Yadkin River	Approximately 100 feet downstream of Speedway Road (SR 2355)	Wilkes County (Unincorporated Areas)
Fishing Creek Tributary 1	The confluence with Fishing Creek	Approximately 1.9 miles upstream of Old NC Highway 60 (SR 2318)	Wilkes County (Unincorporated Areas)
Fishing Creek Tributary 2	The confluence with Fishing Creek	Approximately 250 feet downstream of US Highway 421	Wilkes County (Unincorporated Areas)
Fishing Creek Tributary 2A	The confluence with Fishing Creek Tributary 2	Approximately 20 feet downstream of US Highway 421	Wilkes County (Unincorporated Areas)
Fletcher Creek	The confluence with South Prong Lewis Fork	Approximately 0.8 mile upstream of the confluence with South Prong Lewis Fork	Wilkes County (Unincorporated Areas)
Gambill Creek	The confluence with West Prong Roaring River	Approximately 0.6 mile upstream of the confluence with West Prong Roaring River	Wilkes County (Unincorporated Areas)

Section 5.0 – Engineering Methods

Table 8—Summary of Discharges

Flooding Source	Location	Drainage Area (square miles)	Discharges (cfs)			
			10% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
East Prong Roaring River	Approximately 190 feet upstream of Longbottom Road (SR 1737)	17.5	*	*	9,369	*
	Approximately 0.6 miles upstream of Longbottom Road (SR 1737)	16.8	*	*	9,138	*
	Approximately 1.3 miles upstream of Longbottom Road (SR 1737)	16.2	*	*	8,943	*
	Approximately 1.6 miles upstream of Longbottom Road (SR 1737)	15.9	*	*	8,812	*
	Approximately 1.9 miles upstream of Longbottom Road (SR 1737)	12.4	*	*	7,570	*
	Approximately 2.5 miles upstream of Longbottom Road (SR 1737)	10.4	*	*	6,786	*
East Swan Creek	At the confluence with Swan Creek	6.6	*	*	2,432	*
	Approximately 2,000 feet upstream of the confluence with Swan Creek	6.3	*	*	2,355	*
	Approximately 0.8 mile upstream of the confluence with Swan Creek	4.2	*	*	1,814	*
Elk Creek	At the confluence with Yadkin River	50.6	*	*	28,961	*
	Approximately 1,030 feet downstream of NC 268	50.4	*	*	28,902	*
	Approximately 0.6 mile upstream of NC 268	50.0	*	*	28,557	*
	Approximately 815 feet downstream of Kendell-Town Road (SR 1163)	48.1	*	*	27,091	*
	Approximately 1,050 feet upstream of Kendell-Town Road (SR 1163)	46.7	*	*	26,037	*

Section 5.0 – Engineering Methods

Table 10—Roughness Coefficients

Stream	Channel "n"	Overbank "n"
Blood Creek	0.035-0.050	0.070-0.130
Brier Creek	0.050-0.060	0.080-0.150
Brier Creek Tributary 1	0.050	0.080-0.140
Brushy Creek	0.050	0.080-0.140
Cane Creek	0.050	0.080-0.200
Cub Creek	0.048	0.070-0.140
Darnell Creek	0.045-0.050	0.055-0.140
Double Creek	0.045	0.080-0.140
Double Creek Tributary 1	0.045	0.080-0.140
Dugger Creek	0.050	0.050-0.140
East Prong Roaring River	0.055	0.080-0.140
East Swan Creek	0.046-0.048	0.050-0.130
Elk Creek	0.045-0.050	0.060-0.140
Elk Creek Tributary 1	0.050	0.060-0.140
Elk Creek Tributary 2	0.040-0.045	0.070-0.140
Elkin Creek	0.040-0.050	0.035-0.150
Elkin Creek Tributary 1	0.050	0.080-0.140
Fishing Creek	0.045	0.080-0.140
Fishing Creek Tributary 1	0.045-0.050	0.080-0.140
Fishing Creek Tributary 2	0.045	0.080-0.140
Fishing Creek Tributary 2A	0.047	0.080-0.130
Fletcher Creek	0.048-0.055	0.080-0.130
Gambill Creek	0.048	0.080-0.150
Gladys Fork	0.050	0.015-0.150
Grassy Creek West	0.050	0.080-0.140
Grassy Fork	0.050	0.140
Grays Creek	0.050	0.080-0.140
Harris Creek	0.045	0.080-0.150
Hoopers Branch	0.050	0.030-0.140
Huffman Branch	0.045	0.100-0.140
Hunting Creek	0.040-0.045	0.080-0.150
Joshua Creek	0.050	0.080-0.200
Left Prong Stony Fork	0.040-0.050	0.070-0.150
Lewis Fork	0.035-0.040	0.100-0.140
Little Bugaboo Creek	0.049	0.050-0.140
Little Elkin Creek	0.035-0.051	0.035-0.15
Little Fork Creek	0.045-0.048	0.081-0.140
Little Hunting Creek	0.045	0.090-0.120
Little Sandy Creek	0.045	0.060-0.140
Little Warrior Creek	0.049-0.050	0.060-0.140
Long Branch North	0.045	0.012

Section 5.0 – Engineering Methods

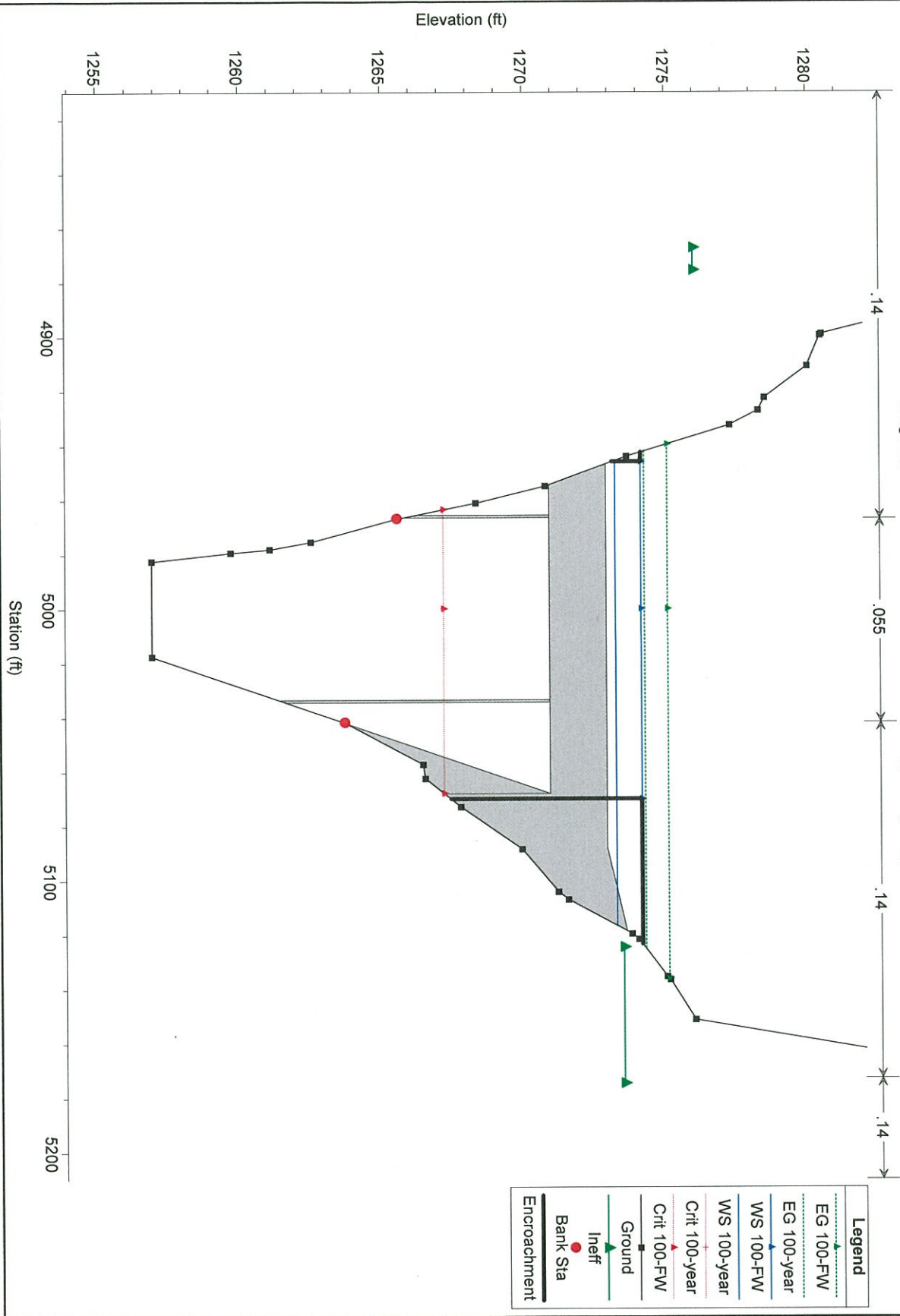
Table 11—Limited Detailed Flood Hazard Data

Cross Section¹	Stream Station²	Flood Discharge (cfs)	1% Annual Chance Water- Surface Elevation (feet NAVD 88)	Non- Encroachment Width³ (feet)
EAST PRONG ROARING RIVER				
358	35,834	13,019	1,098.3	42 / 50
364	36,398	13,019	1,101.7	50 / 50
370	36,983	13,019	1,104.4	50 / 44
380	38,049	12,768	1,114.8	70 / 84
386	38,568	12,768	1,117.8	50 / 42
392	39,211	12,653	1,123.5	37 / 42
401	40,141	12,653	1,129.9	22 / 40
406	40,566	12,653	1,133.1	40 / 40
412	41,177	12,653	1,138.9	49 / 23
418	41,757	12,653	1,142.7	60 / 38
427	42,713	12,653	1,147.1	120 / 30
434	43,408	12,653	1,149.6	56 / 240
445	44,480	12,517	1,150.4	54 / 160
450	44,978	12,517	1,151.2	46 / 78
458	45,826	12,517	1,156.0	114 / 34
467	46,663	12,332	1,157.2	42 / 46
475	47,528	12,332	1,163.8	33 / 40
482	48,204	12,214	1,168.0	52 / 40
488	48,796	12,214	1,171.2	52 / 62
494	49,415	12,214	1,175.7	70 / 80
500	49,967	12,214	1,178.3	50 / 110
505	50,473	12,214	1,180.5	114 / 110
511	51,057	12,214	1,181.6	48 / 80
518	51,756	12,214	1,183.1	48 / 36
523	52,290	12,214	1,188.1	160 / 64
530	52,995	12,004	1,189.0	160 / 60
540	53,995	12,004	1,190.2	60 / 55
548	54,840	12,004	1,194.3	44 / 52
554	55,446	11,747	1,197.1	51 / 37
565	56,540	11,747	1,202.9	120 / 30
571	57,067	11,747	1,207.3	36 / 66
580	58,025	11,747	1,209.5	41 / 48
583	58,336	11,747	1,210.9	44 / 35
588	58,824	11,747	1,219.9	32 / 36
591	59,089	9,736	1,226.3	42 / 80
596	59,570	9,736	1,228.9	46 / 60
603	60,277	9,736	1,232.1	30 / 84
610	60,960	9,736	1,236.3	105 / 40
615	61,520	9,736	1,238.0	55 / 70
624	62,400	9,736	1,242.1	46 / 150
635	63,531	9,736	1,248.4	95 / 31
646	64,626	9,736	1,255.0	54 / 100
653	65,289	9,524	1,258.1	40 / 42
660	65,964	9,524	1,263.5	16 / 50
665	66,454	9,524	1,267.9	46 / 52
671	67,051	9,369	1,273.4	33 / 40
675	67,523	9,369	1,275.9	38 / 69
679	67,904	9,369	1,277.0	112 / 44

STA.
66837 - 7
BR. U

River STA. 66837 BR U

East Prong Roaring River Limited Detail Study Plan: Floodway Run 8/14/2007
 Longbottom Road EPRR - TORStructure ID: LDS_EPRR_08Aapproximat





NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

PRIORITY MAINT.

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY WILKES BRIDGE NUMBER 960144 INSPECTION CYCLE 2 YRS

ROUTE SR1737 ACROSS E.PRONG ROARING RIVER M.P. 0

LOCATION 25 FT.E.JCT.SR1742

SUPERSTRUCTURE STEEL PLANK FLOOR ON I-BEAMS

SUBSTRUCTURE RC ABUTS;BTS:STL.CAPS/H-PILES ENC.IN CONC.

SPANS 1 @ 45'-6,1 @ 45',1 @ 45'-6

LONGITUDE 81° 3' 52.6"

LATITUDE 36° 22' 25.2"

PRESENT CONDITION FAIR

INVENTORY RATING

INSPECTION DATE 01/21/2011

OPERATING RATING

PRESENT POSTING SV 27 TTST 32

PROPOSED POSTING

COMPUTER UPDATE 2-9-11

ANALYSIS DATE

POSTING LETTER DATE 2-8-11

SUFFICIENCY RATING

OTHER SIGNS PRESENT 4 DELIN.



LOOKING EAST

SIGN NOTICE
ISSUED FOR

NUMBERED
REQUIRED

No	WEIGHT LIMIT	
No	DELINEATORS	
No	NARROW BRIDGE	
No	ONE LANE BRIDGE	
No	LOW CLEARANCE	

BRIDGE MANAGEMENT UNIT
DATA ON EXISTING STRUCTURE

Run Date: 03/11/2011

COUNTY : WILKES	DIV : 11	DIST : 3	STRUCTURE NUMBER : 960144	LENGTH : 136 FEET
ROUTE CARRIED : SR1737		FEATURE INTERSECTED : E.PRONG ROARING RIVER		
LOCATED : 25 FT.E.JCT.SR1742		BRIDGE NAME :		CITY :
FUNC. CLASS : 09	SYST.ON : NFA	SYST.UNDER : NFA	ADT & YR : 740 2008	RAIL TYPE : LT 233 RT 233
BUILT : 1972	BY : BMU	PROJ :	FED.AID PROJ :	DESIGN LOAD : Other or Unknown
REHAB :	BY :	PROJ :	ALIGNMENT : TAN	SKEW : 60
			LANES : ON 2 UNDER	
NAVIGATION : VC 0.0 FT HC 0.0 FT		HT. CRN. TO BED : 16 FT		WATER DEPTH : 1 FT
SUPERSTRUCTURE : STEEL PLANK FLOOR ON I-BEAMS				
SUBSTRUCTURE : RC ABUTS;BTS;STL.CAPS/H-PILES ENC.IN CONC.				
SPANS : 1 @ 45'-6,1 @ 45',1 @ 45'-6				
BEAMS OR GIRDERS : 10 LINES 21 I-BEAMS @ 2'-6.75 CENTERS				
FLOOR : STL.PLK/3 AWS	ENCROACHMENT :		DECK (OUT TO OUT) : 24.2 FT	
CLEAR ROADWAY : 24.0 FT	BETWEEN RAILS : 24.6 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-1	OPE.RTG. : HS-1	CONTR.MEMBER : Int.bms	POSTED : SV 30 TTST 30 DATE 03/09/2011	
SYSTEM : Secondary S.R. Route		GREEN LINE ROUTE : N		
2ND OPENING :		3RD OPENING :		4TH OPENING : 5TH OPENING :
REMARKS :				

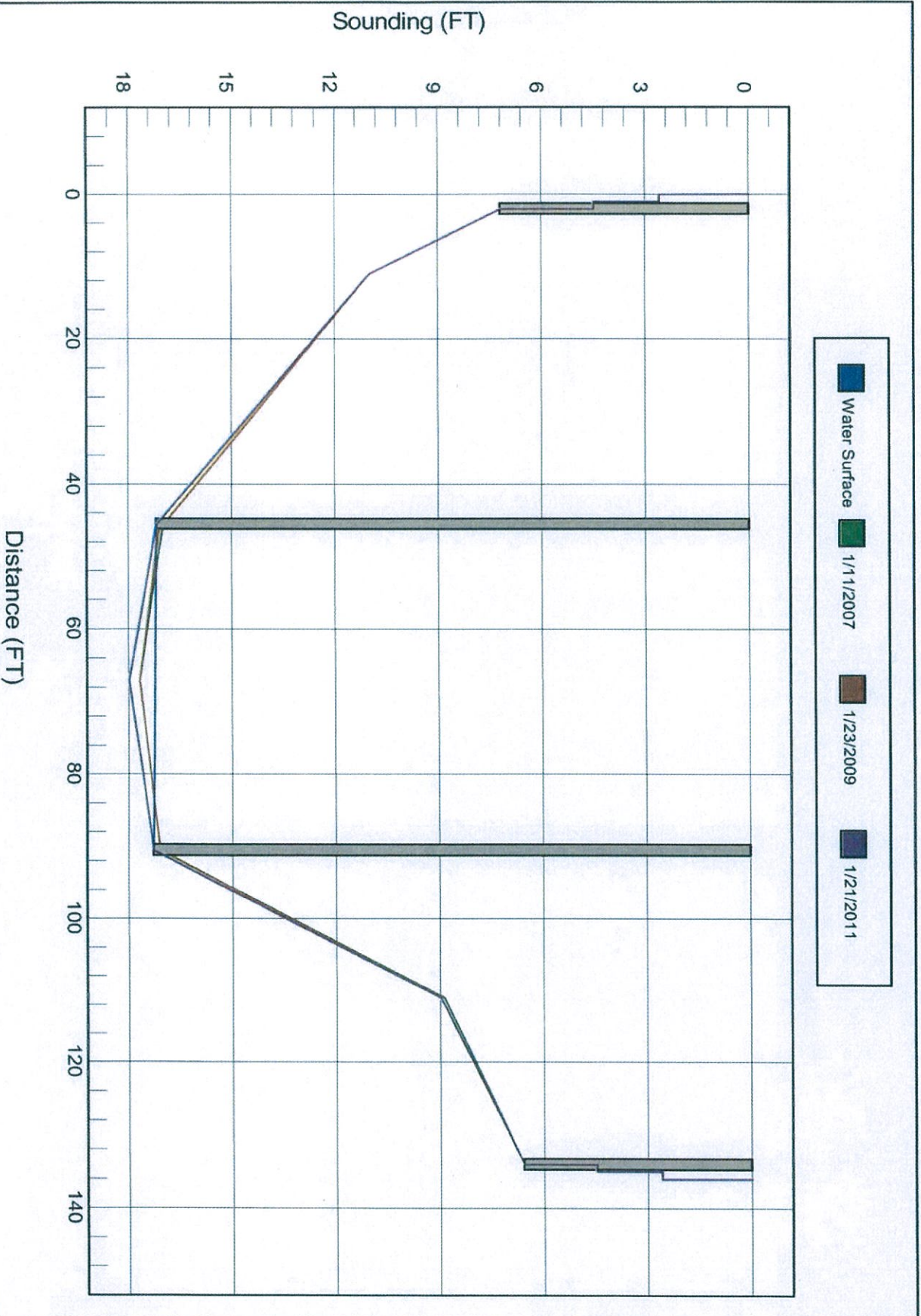
Bridge: 960144

County: WILKES

Date: 01/21/2011

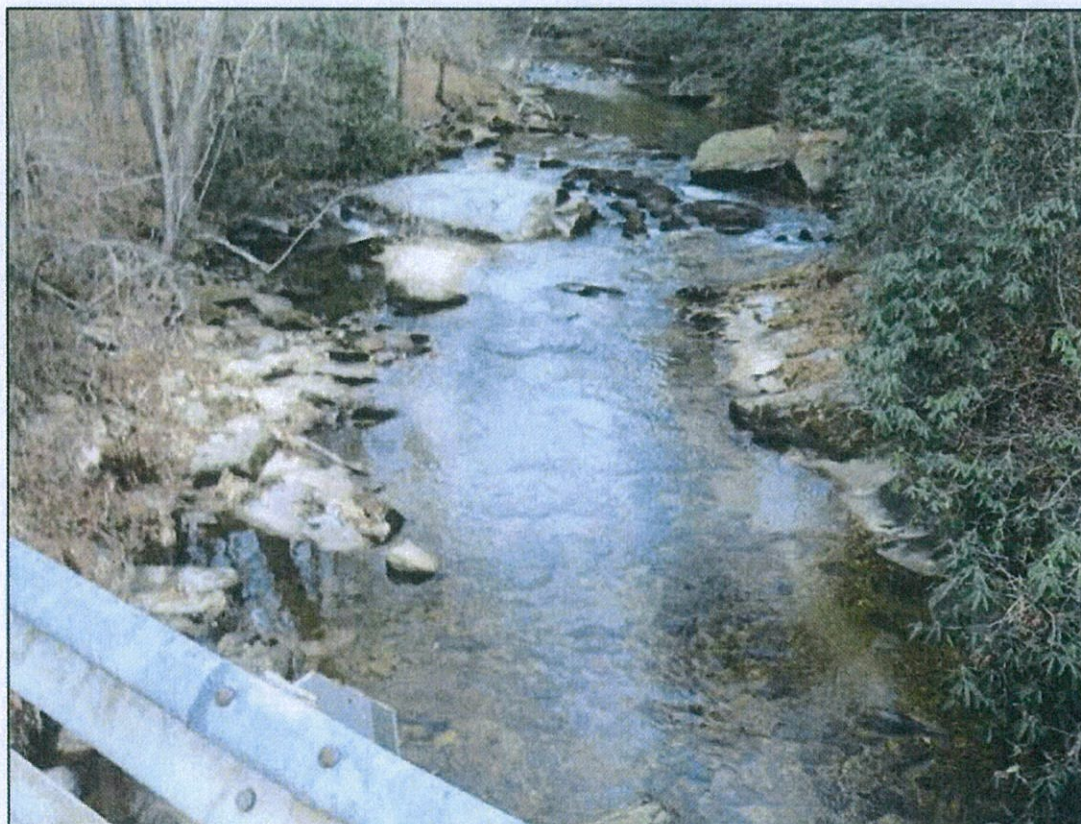
Top of Rail = 0 FT (Sounding)

STREAMBED PROFILE (Downstream)





LOOKING UPSTREAM



LOOKING UPSTREAM

30 MI

12300

1300

1290

1280

1270

1260

6.762136
NC STATE HIGHWAY COMM.

WILKES COUNTY

BRIDGE NO 144

EAST PRONG

ROARING RIVER

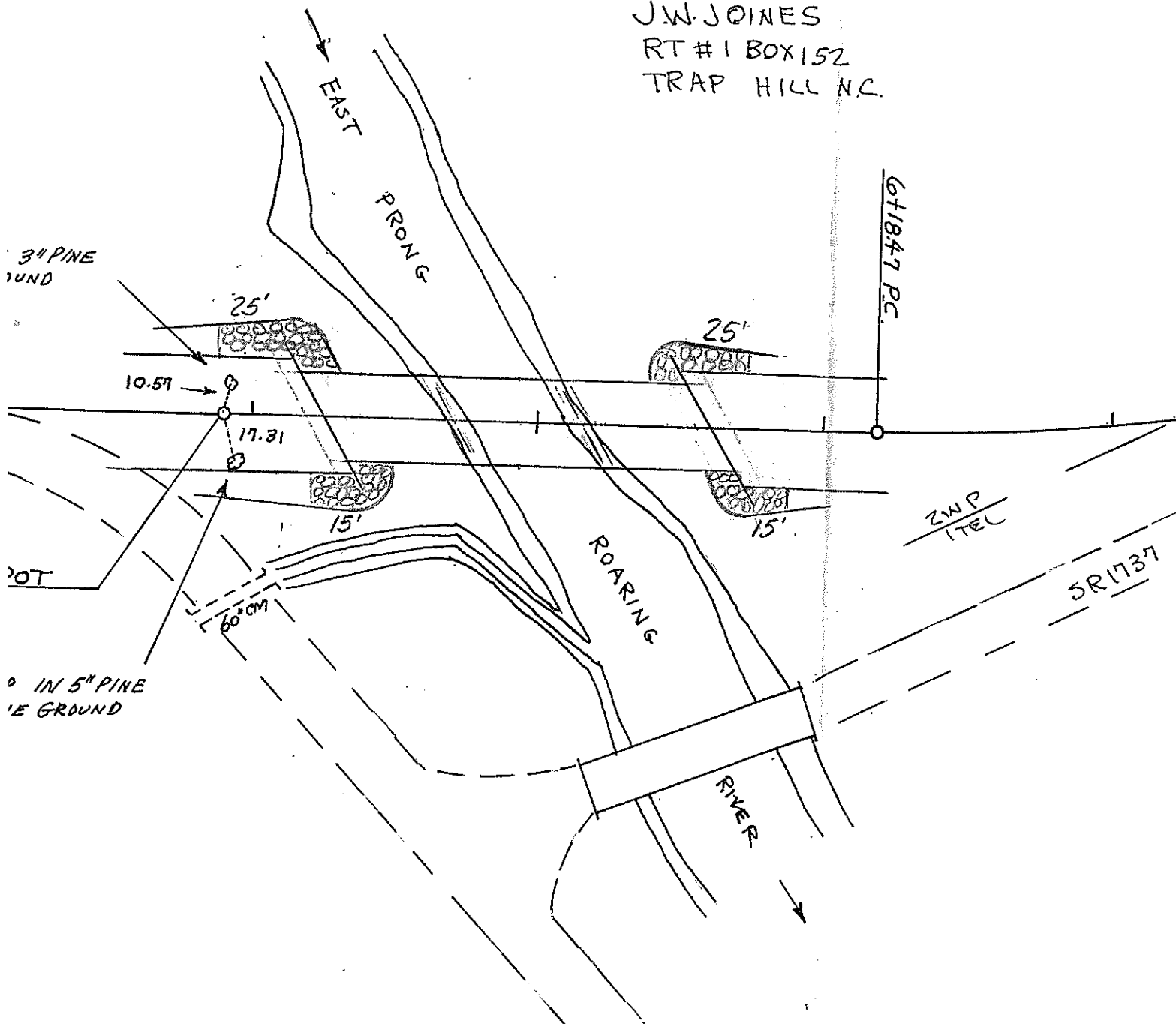
SR 1737

W.C. CALHOUN

JAN 1971

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J.W. JOINES
RT #1 BOX 152
TRAP HILL N.C.



0 IN 5\" PINE
E GROUND

Bxg = 144

