

OFFICE ESTIMATE

1 @ 50' Bridge

PREDESIGN-PRESURVEY REPORT

Project# _____
TIP# _____
Let Date _____
WBS# 17BP.14.R.99

County HAY WOOD (DIV. 14)

Bridge# 430326
Road# SR 1318 (HEMPHILL RD)
Stream HEMPHILL CREEK

Type Of Request: POC Force Account TIP NCMA

Date 8/13 Name MJY Assigned To RCH

Checked By _____ BRN. BK. NO CO. FILE NO

Prior Survey Date _____ (attach copy of prior survey)

Study By Scour Section NO

Flood Zone _____ Detail Study NONE Date _____ Panel# 7678

B.M. Info _____

Quad Map DELLWOOD Drainage Area 512 ACRE From USGS STREAM STATS
Q25 340 cfs Q50 450 cfs Q100 550 cfs Method NCDOT CHARTS/CONTOUR 7

EXISTING BRIDGE INFORMATION

Location 0.1 MI. W. JCT. SR 1317

Average Daily Traffic 1300 6% TRK (2010)

Length 36' Bed- To Crown 13' Water Depth 1'

Type Structure TIM. FLOOR ON I-BEAMS, YOUNT MASONRY

Type Spans 1 @ 36'

Upstream Structure NONE

Location _____

Bed- To Crown _____ Prior Survey _____

Downstream Structure 430343, TIM. FLOOR ON I-BEAMS, TIM. CAPS, POSTS & SILLS, 1 @ 35'-6"

Location 100' N. JCT. SR 1318

Bed- To Crown 11' (D=1') Prior Survey _____

SCS Watershed _____

ENVIRONMENTAL

TVA: YES

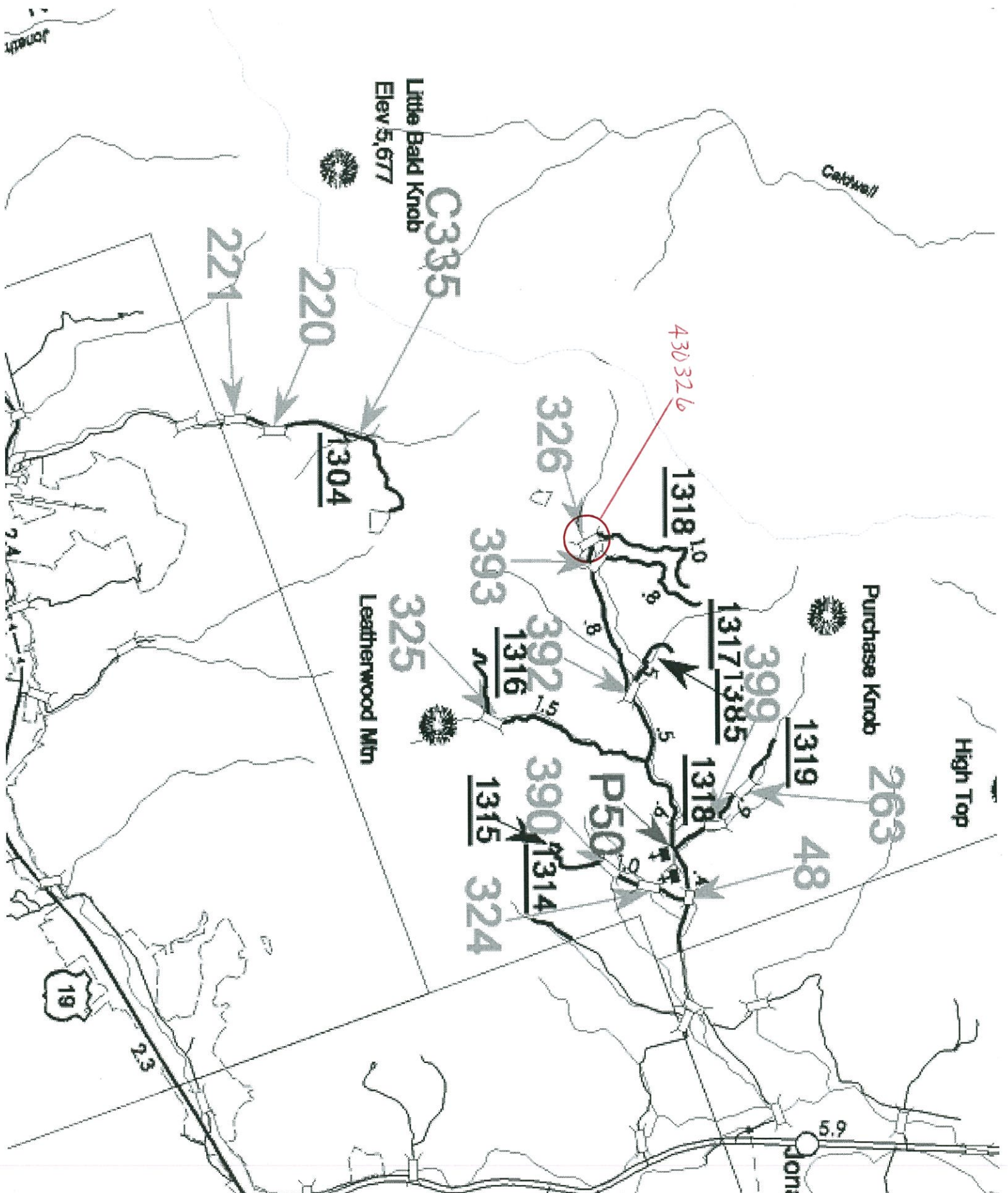
Trout Stream YES Anadromous Fish NO Primary Nursery Area NO

High Quality Waters NO Nutrient Sensitive Waters NO

Near Water Supply Intake NO CAMA County NO

Stream Classification C; Tr 5-26-16

DENR River Basin Info. FRENCH BROAD





North Carolina StreamStats

Streamstats Ungaged Site Report

Date: Tue Aug 27 2013 15:13:11 Mountain Daylight Time

Site Location: North_Carolina

NAD27 Latitude: 35.5656 (35 33 56)

NAD27 Longitude: -83.0841 (-83 05 03)

NAD83 Latitude: 35.5657 (35 33 57)

NAD83 Longitude: -83.0840 (-83 05 02)

Drainage Area: 0.8 mi²

Percent Urban: 6.0 %

Percent Impervious: 0.5 %

Peak Flows Region Grid Basin Characteristics			
100% Peak Southeast US 2009 5158 (0.8 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	0.8 (below min value 1)	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

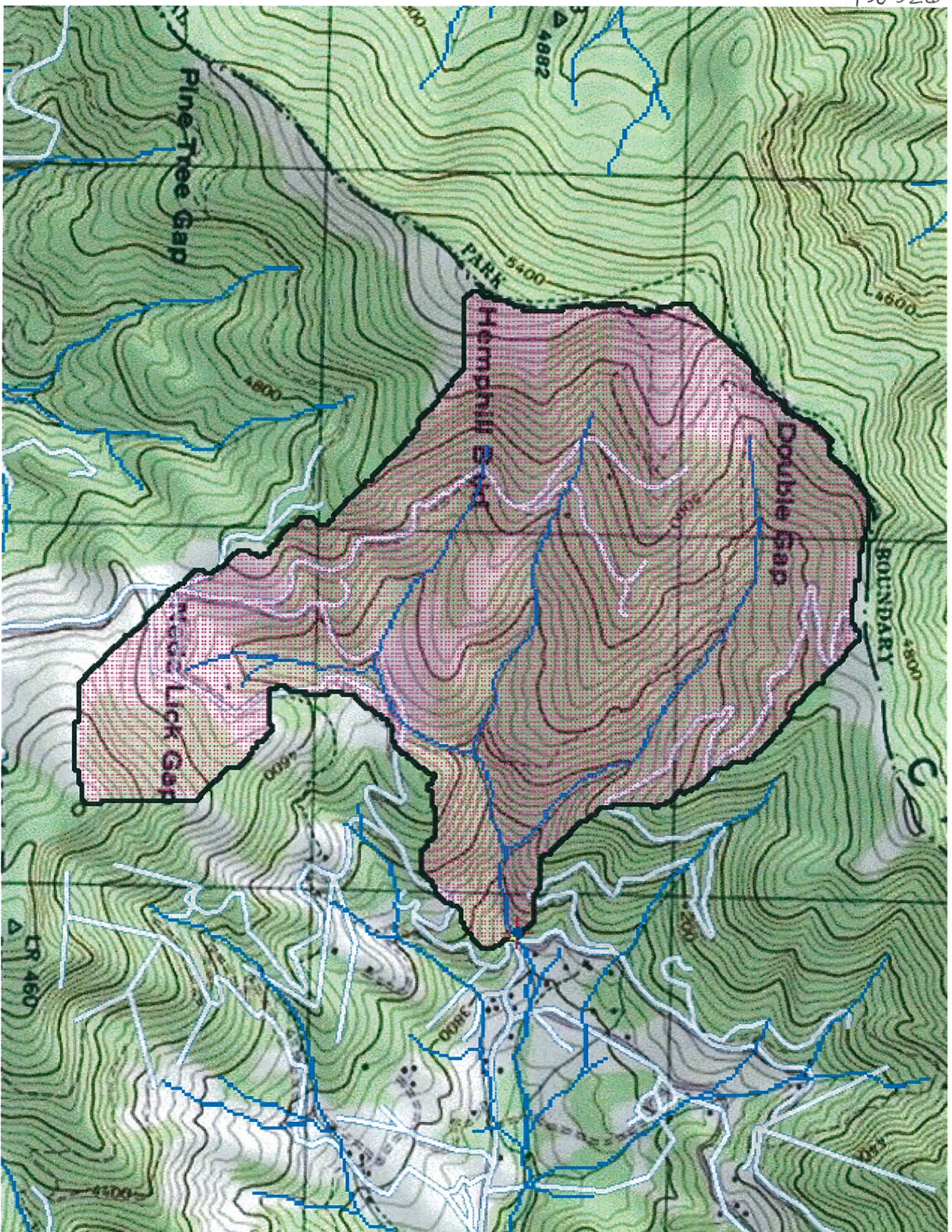
Warning: Some parameters are outside the suggested range. Estimates will be extrapolations with unknown errors.

Urban Flows Region Grid Basin Characteristics			
100% Peak urban Blue Ridge-Piedmont FS007-00 (0.8 mi ²)			
Parameter	Value	Regression Equation Valid Range	
		Min	Max
Drainage Area (square miles)	0.8	0.04	41
Area of Impervious Surfaces (percent)	0.54 (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	92.2				
PK5	177				
PK10	245				
PK25	339				
PK50	408				
PK100	491				
PK200	564				
PK500	679				

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	18.5				
PK5U	47.6				
PK10U	76.7				
PK25U	152				
PK50U	203				
PK100U	263				





NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

TEMP. REPAIR - CONCRETE FACED ABUTMENTS.

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY HAYWOOD BRIDGE NUMBER 430326 INSPECTION CYCLE 2 YRS
ROUTE SR1318 ACROSS HEMPHILL CREEK M.P. 0

LOCATION .1 MI.W.JCT.SR1317

SUPERSTRUCTURE TIMBER FLOOR ON I-BEAMS

SUBSTRUCTURE ABUTMENTS: YOUNT MASONRY

SPANS 1 @ 36'

LONGITUDE 83° 5' 50.4"

LATITUDE 35° 33' 58.3"

PRESENT CONDITION GOOD

INVENTORY RATING

INSPECTION DATE 04/04/2011

OPERATING RATING

PRESENT POSTING Not Posted

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT DELINEATORS [4]



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: 08/24/2011

COUNTY :	HAYWOOD	DIV :	14	DIST :	2	STRUCTURE NUMBER :	430326	LENGTH :	36	FEET
ROUTE CARRIED :	SR1318		FEATURE INTERSECTED : HEMPHILL CREEK							
LOCATED :	.1 MI.W.JCT.SR1317		BRIDGE NAME :				CITY :			
FUNC. CLASS :	09	SYST.ON :	NFA	SYST.UNDER :	NFA	ADT & YR :	1300 2010	RAIL TYPE :		
								LT	227	RT 227
BUILT :	1954	BY :	BMU	PROJ :		FED.AID PROJ :		DESIGN LOAD :		
								Other or Unknown		
REHAB :	1963	BY :	BMU	PROJ :	5.9451	ALIGNMENT :	TAN	SKEW :	90	LANES :
										ON 2 UNDER
NAVIGATION :						HT. CRN. TO BED :		WATER DEPTH :		
	VC	0.0	FT	HC	0.0	FT	13	FT	1	FT
SUPERSTRUCTURE :	TIMBER FLOOR ON I-BEAMS									
SUBSTRUCTURE :	ABUTMENTS: YOUNT MASONRY									
SPANS :	1 @ 36'									
BEAMS OR GIRDERS :	7 LINES 21 I-BEAMS @ 3'-2" CENTERS									
FLOOR :	4X8 TIM/3" AWS		ENCROACHMENT :		DECK (OUT TO OUT) :					
					22.0 FT					
CLEAR ROADWAY :	21.3 FT		BETWEEN RAILS :		21.7 FT		SIDEWALK OR CURB :			
							LT	0.2 FT	RT	0.2 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	TTST	DATE	10/30/2003
SYSTEM :	Secondary S.R. Route					GREEN LINE ROUTE :				
						N				
2ND OPENING :			3RD OPENING :				4TH OPENING :		5TH OPENING :	
REMARKS :										

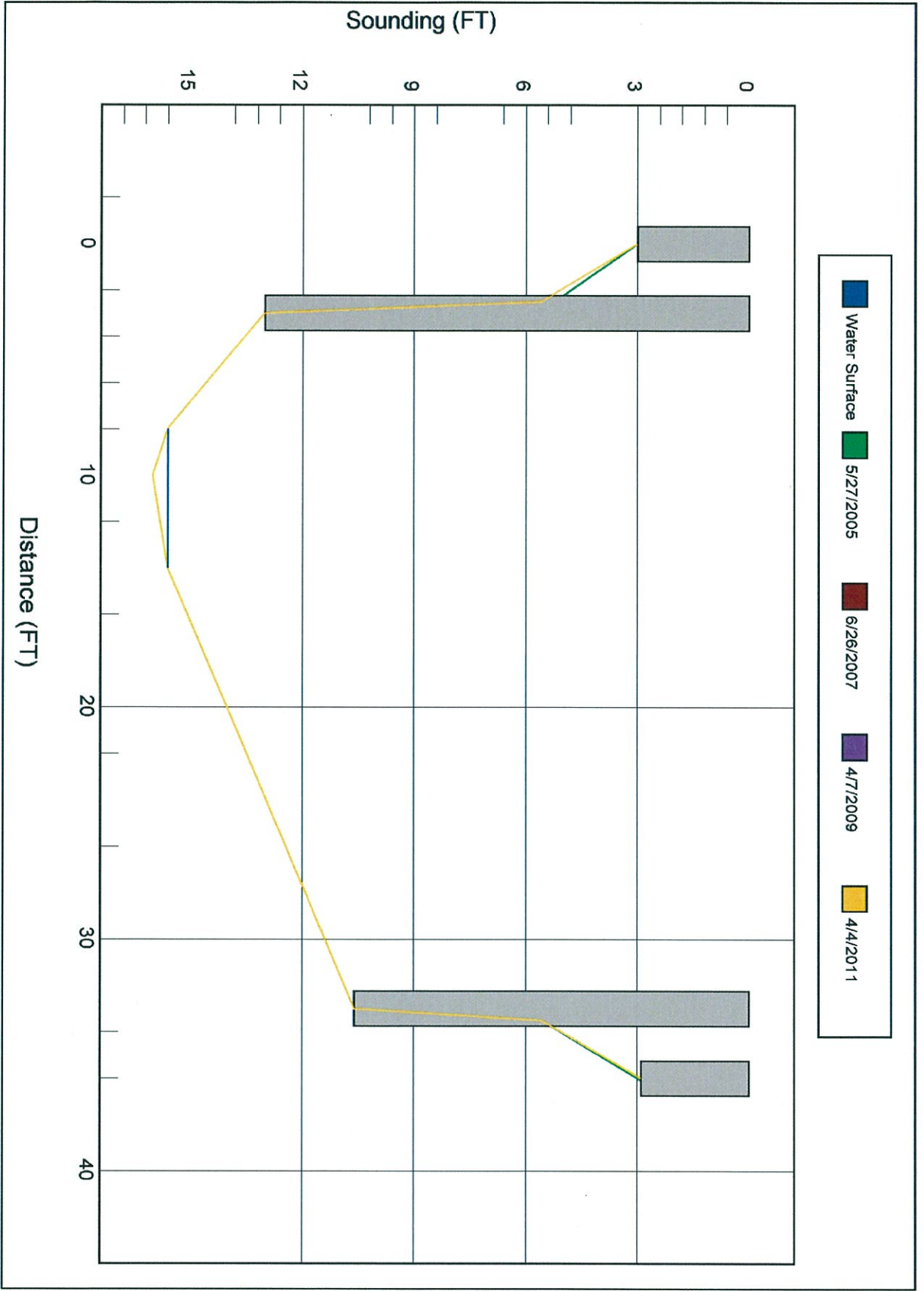
450326

Bridge: 430326 County HAYWOOD

Date: 04/04/2011

Top of Rail = 0 FT (Sounding)

STREAMBED PROFILE (Downstream)



Structure 430326

County HAYWOOD

Date: 04/04/2011

Structure Photos



REP. OF UNDERSIDE



DOWNSTREAM