

OFFICE ESTIMATE

21'10" x 5'8" Aluminum Box

PREDESIGN-PRESURVEY REPORT

Project# 17 BP.11.R.109

TIP# _____

Let Date _____

WBS# _____

County WATAUGA DIV 11

Bridge# 940149

Road# SR 1351(CastleFordRd)

Stream Grassy Creek

Type Of Request: POC Force Account TIP ☒ NCMA

Date 1/3/2013 Name ccj & wsh ☒

Assigned To MTS

Checked By MJY 1-7-14 ☒

Prior Survey Date NONE BrnBK: NONE Co.File: NONE

Study By Scour Section NONE

Flood Zone AE Detail Study Redelinatec Date 12-3-09 Panel# 2932

B.M. Info N/A

Quad Map TODD Drainage Area 2.81 Sq Miles From QUAD SHT

Q25 850cfs Q50 1000 cfs Q100 1200 cfs Method REG EQU/RURAL
REGION 2

LAT: 36°16'20.3" LONG: 81°35'33.9"

EXISTING BRIDGE INFORMATION

Location 0.3 MI SW JCT SR 1352 (River Rd.)

Average Daily Traffic 120 (2000) 6% TRK

Length 26' Bed- To Crown 6' Water Depth 1'

Type Structure Tim: Flr,Caps, E BTS, posts & sills, I Beams

Type Spans 1 @ 25' 9"

Upstream Structure 940048 on SR 1351 L= 19' I BEAMS, Tim.: Flr, Caps, Sills, E BTS

Location 0.4 mi NE JCT SR1354 (1 @ 18' 6")

Bed- To Crown 7' (H2O= 2'deep) Prior Survey N/A

Downstream Structure: 940221 on SR1352(RiverRD) Prestressed Conc Cored Slab & RC Slab, H

Location 15' S JCT SR 1347(Big Hill Rd) Piles & Conc Posts, Sills, BTS

Bed- To Crown 18' (H2O = 3'Deep) Prior Survey N/A

SCS Watershed N/A

ENVIRONMENTAL

TVA: YES

Trout Stream NO 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 IV: + (#10-1-14)

DENR River Basin Info. NEW

COUNTY = WATAUGA

BRIDGE No. = 149

DATE = 12/17/13

IN SAG

149

OAL = 24.9 FT

⊥ OPENING = 17 FT

CLEAR ROWY = 19.3 FT

CLEAR ROWY ALONG SKRW = 27.3'

RAIL TO BED =

RAIL TO SEAT =

HEIGHT OF RAIL = 2.6 FT

NW DEPTH = 1.0 FT

STREAM WIDTH = 10 FT

WATERWAY OPENING =

DETOUR =

BRIDGE ?
TIME VERTICAL ABUT
STEEL GROUPS

0+00 SEAT 4.4

+00 ABUT 8.6
WE 0.6

WS 7.8

0+10 9.0 FT

0+14 8.9 FT

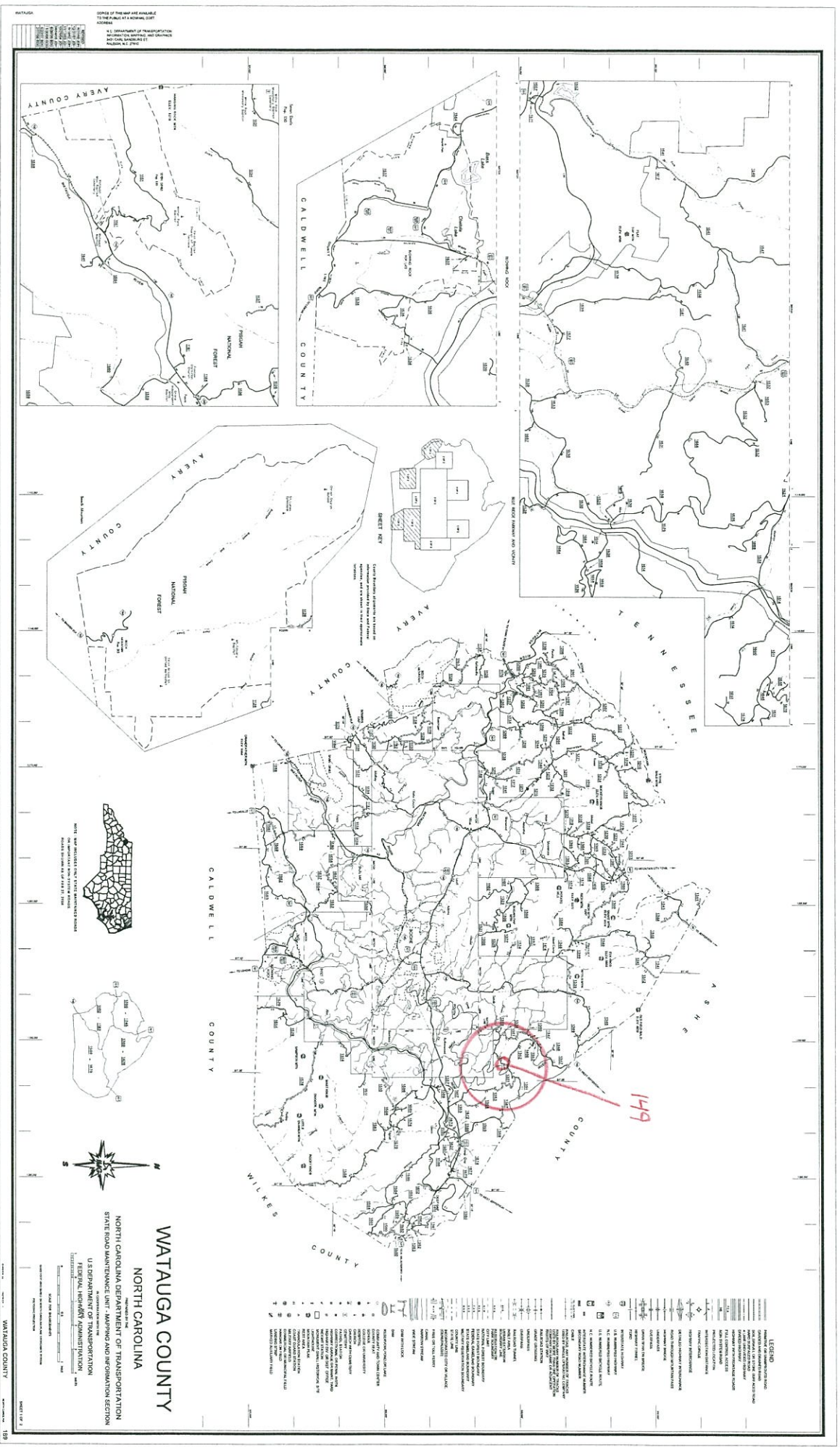
0+23 WE 8.2

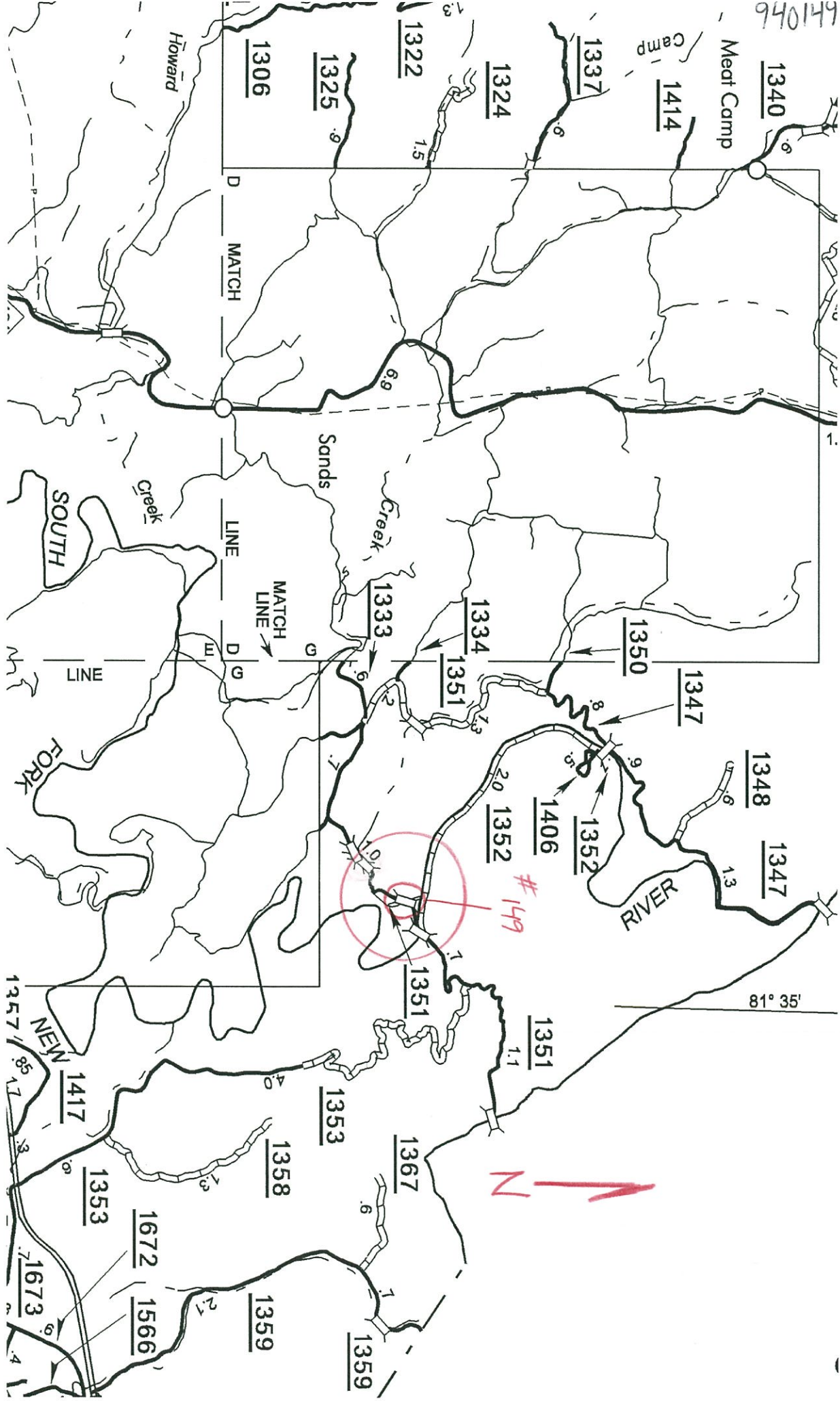
0+23 FT6 7.2

+24.9 FT6 7.2

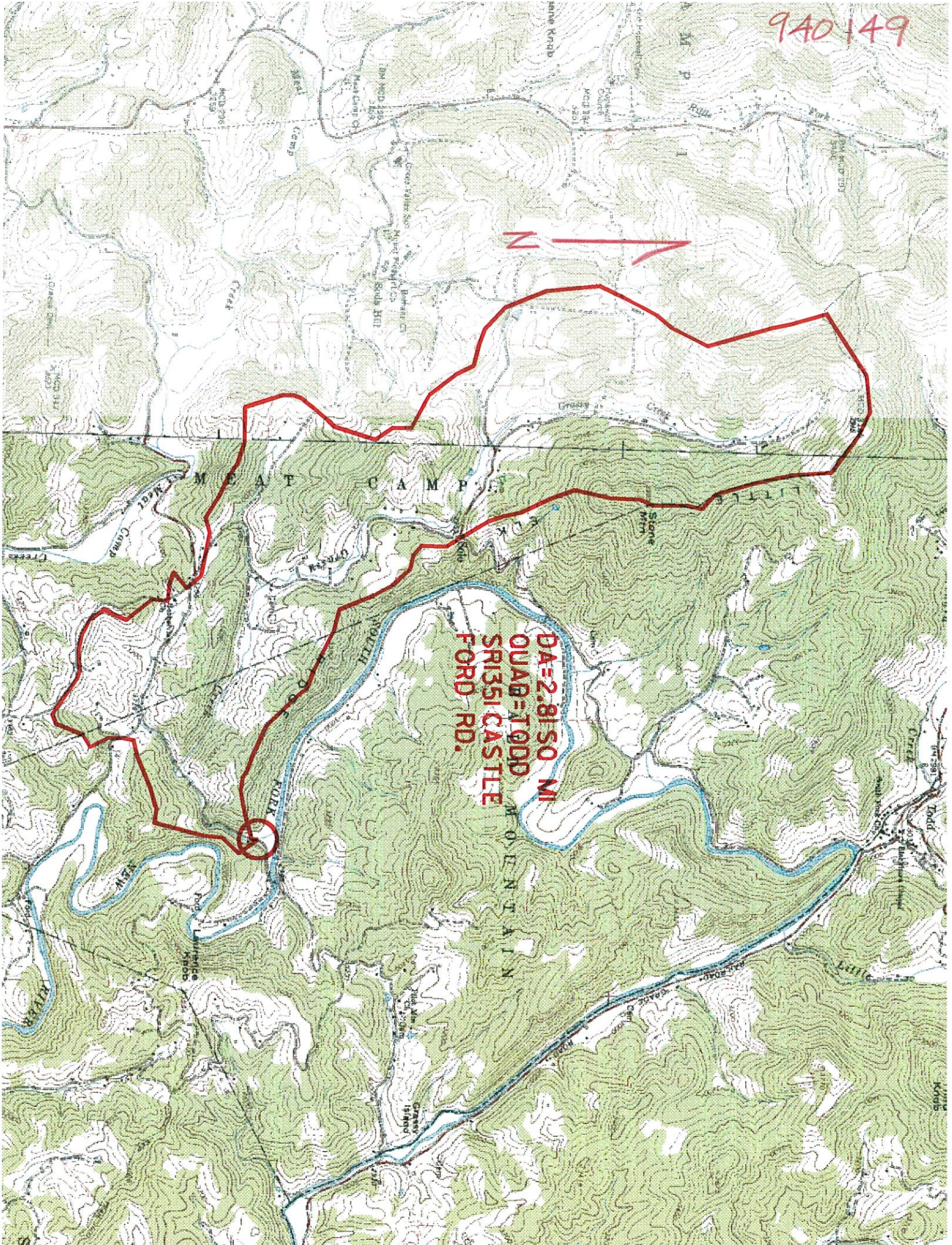
SEAT 4.4

940149





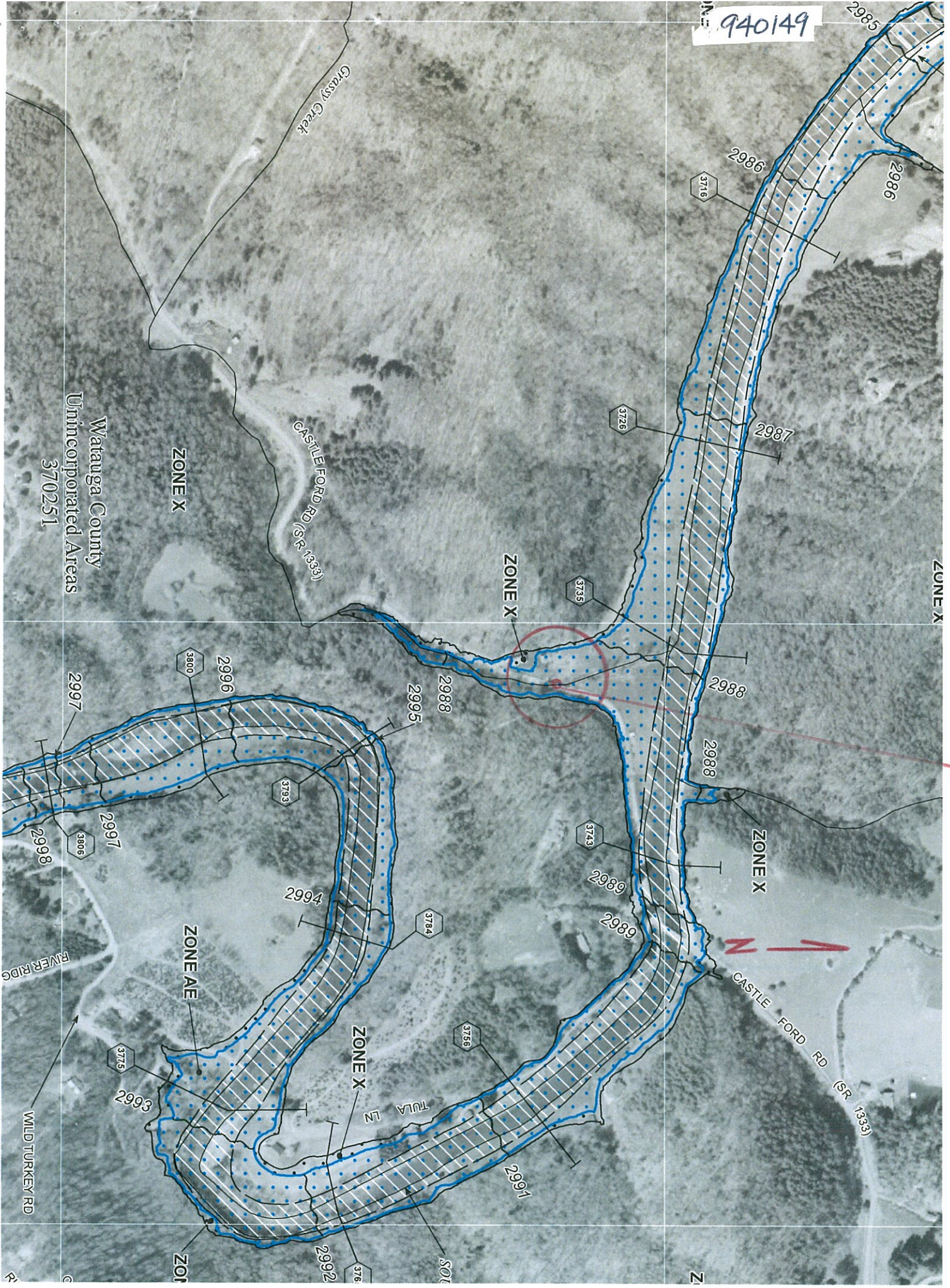
940149



DA=2.81 SO MI
QUAD=10DD
SR1351 CASTLE
FORD RD.

641046

940149



Site

990149



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION TEMP REPAIR

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY WATAUGA BRIDGE NUMBER 940149 INSPECTION CYCLE 2 YRS
ROUTE SR1351 ACROSS CREEK M.P. 0

LOCATION .3 MI.SW.JCT.SR1352

SUPERSTRUCTURE TIMBER FLOOR ON I-BEAMS

SUBSTRUCTURE E.BTS:TIMBER CAPS/TIMBER POST&SILLS @ VAR.CENTERS

SPANS 1 @ 25'-9"

LONGITUDE 81° 35' 33.9"

LATITUDE 36° 16' 20.3"

PRESENT CONDITION FAIR

INVENTORY RATING

INSPECTION DATE 10/05/2011

OPERATING RATING

PRESENT POSTING SV 17 TTST 23

PROPOSED POSTING

COMPUTER UPDATE

ANALYSIS DATE

POSTING LETTER DATE

SUFFICIENCY RATING

OTHER SIGNS PRESENT 4 DELIN. 2 NARROW BR.



LOOKING EAST

SIGN NOTICE ISSUED FOR		NUMBERED REQUIRED
<u>No</u>	WEIGHT LIMIT	<u></u>
<u>No</u>	DELINEATORS	<u></u>
<u>No</u>	NARROW BRIDGE	<u></u>
<u>No</u>	ONE LANE BRIDGE	<u></u>
<u>No</u>	LOW CLEARANCE	<u></u>

740149

(8)

BRIDGE MANAGEMENT UNIT
DATA ON EXISTING STRUCTURE

Run Date: 11/03/2011

COUNTY : WATAUGA		DIV : 11		DIST : 2		STRUCTURE NUMBER : 940149		LENGTH : 26 FEET	
ROUTE CARRIED : SR1351				FEATURE INTERSECTED : CREEK					
LOCATED : .3 MI.SW.JCT.SR1352				BRIDGE NAME :				CITY :	
FUNC. CLASS : 09		SYST.ON : NFA		SYST.UNDER : NFA		ADT & YR : 120 2000		RAIL TYPE : LT 227 RT 227	
BUILT : 1963		BY : BMU		PROJ :		FED.AID PROJ :		DESIGN LOAD : Other or Unknown	
REHAB :		BY :		PROJ :		ALIGNMENT : TAN		SKEW : 135	
								LANES : ON 2 UNDER	
NAVIGATION : VC 0.0 FT HC 0.0 FT				HT. CRN. TO BED : 6 FT				WATER DEPTH : 1 FT	
SUPERSTRUCTURE : TIMBER FLOOR ON I-BEAMS									
SUBSTRUCTURE : E.BTS:TIMBER CAPS/TIMBER POST&SILLS @ VAR.CENTERS									
SPANS : 1 @ 25'-9									
BEAMS OR GIRDERS : 9 LINES 12 I-BEAMS @ 2'-3.875 CENTERS									
FLOOR : 4X8 TIM/2.5AWS		ENCROACHMENT :				DECK (OUT TO OUT) : 20.1 FT			
CLEAR ROADWAY : 19.3 FT		BETWEEN RAILS : 20.0 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 Beam		POSTED : SV 16 TTST 21		DATE 11/03/2011	
SYSTEM : Secondary S.R. Route						GREEN LINE ROUTE : N			
2ND OPENING :		3RD OPENING :		4TH OPENING :		5TH OPENING :			
REMARKS :									

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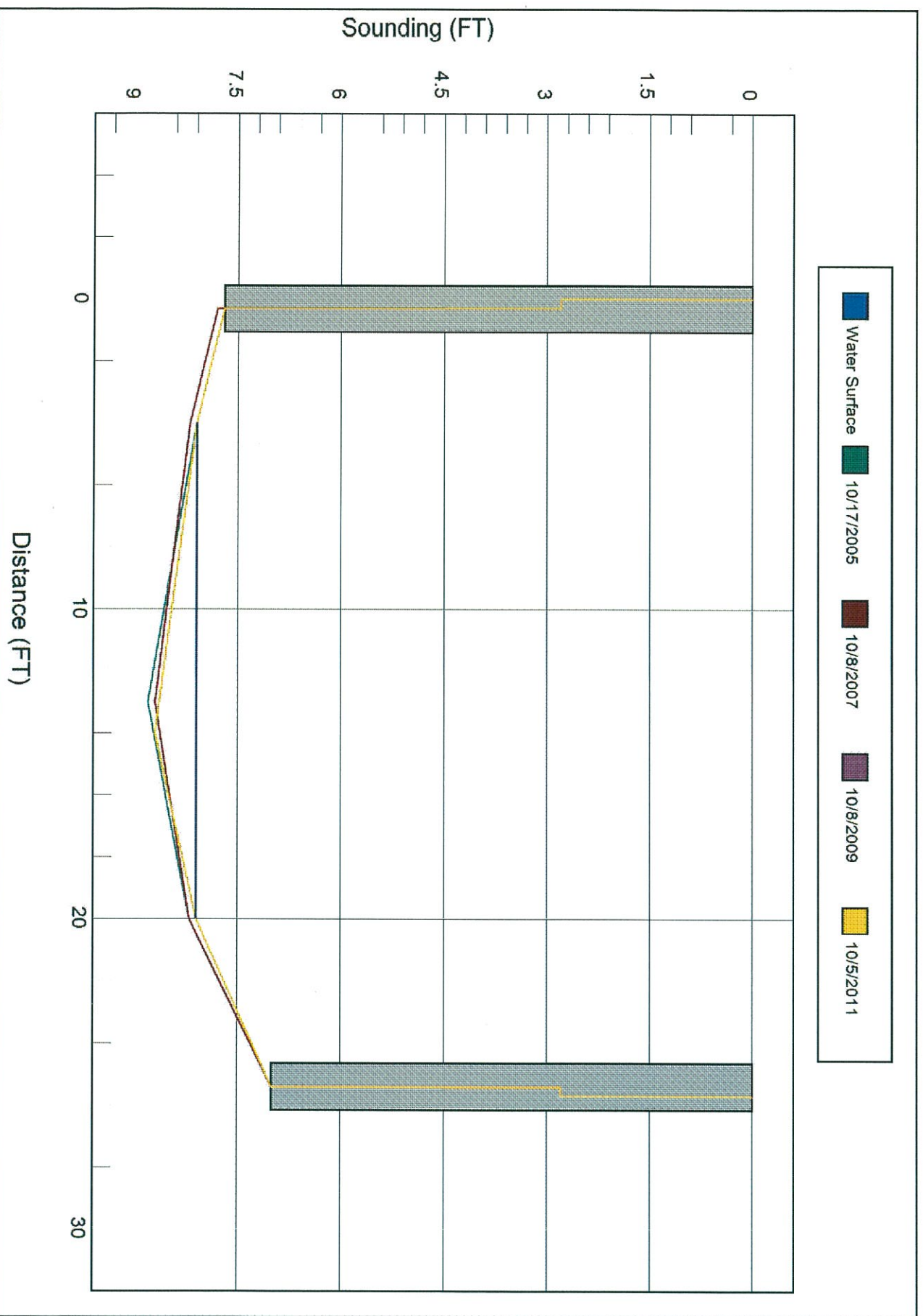
Bridge: 940149

County WATAUGA

Date: 10/05/2011

Top of Rail = 0 FT (Sounding)

STREAMBED PROFILE (Downstream)



940149

940149

Structure 940149

County WATAUGA

Date: 10/05/2011

Structure Photos



LOOKING EAST

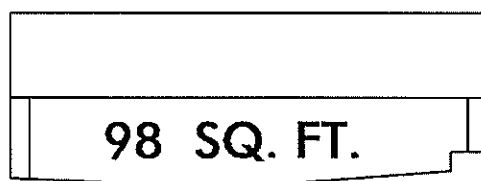


LOOKING DOWNSTREAM

WATAUGA 940149

SCALE: 10

SOUNDING



└ OPENING

