

OFFICE ESTIMATE

21' 10" x 5' 8" Aluminum Box

Project# 17BP. 11. R. 108

TIP#

Let Date

WBS#

PREDESIGN-PRESURVEY REPORT

County WATAUGA DIV 11

Bridge# 940048

Road# SR 1351(CastleFordRd)

Stream Grassy Creek

Type Of Request: POC Force Account TIP NCMA

Date 12.23.13 Name wsh ✓

Assigned To MTS ✓

Checked By MJY 1-3-14 ✓

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

Study By Scour Section NONE

Flood Zone X Detail Study NONE Date 12-3-09 Panel# 2932 ✓

B.M. Info N/A

Quad Map TODD Drainage Area 2.71 Sq Miles From QUAD SHT
Q25 800cfs Q50 1000 cfs Q100 1200 cfs Method REG EQU
REGION 2

LAT: 36°16'6.5" LONG: 81°35'48.4"

EXISTING BRIDGE INFORMATION

Location 0.4 MI NE JCT SR 1354 (Milton Morte Rd.)

Average Daily Traffic 120 (2000) 6% TRK

Length 19' Bed- To Crown 7' Water Depth 2'

Type Structure I BEAMS, TIMBER FLR,CAPS, SILL, E BTS

Type Spans 1 at 18' 6"

Upstream Structure 940047 L= 26' I BEAMS , TIM.: FLR, CAPS, SILLS, E BTS

Location 0.35 mi NE JCT SR1354 (1 at 25' 10")

Bed- To Crown 6' (H2O= 1'deep) Prior Survey N/A

Downstream Structure 940149 L= 26' I BEAMS , TIM.: FLR, CAPS, SILLS, E BTS

Location 0.3 mi SW JCT SR 1352 (1 at 25' 9")

Bed- To Crown 6' (H2O= 1'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.: 48
946048

DATE: 12/17/13

IN SAG

OAL = 18.4'

⊥ OPENING = 17.1 FT

CLEAR ROW 4 = 19.8'

CLEAR ROW 4 ALONG SKRW = 20.4'

RAIL TO BED =

RAIL TO SEAT =

HEIGHT OF RAIL = 2.8 FT

NW DEPTH = 0.5 FT

STREAM WIDTH = 10 FT

WATERWAY OPENING =

DETOUR =

APPARENT BAD ROCK
TIMBER VARIATION ABOUT
STEEL GUARDRAILS

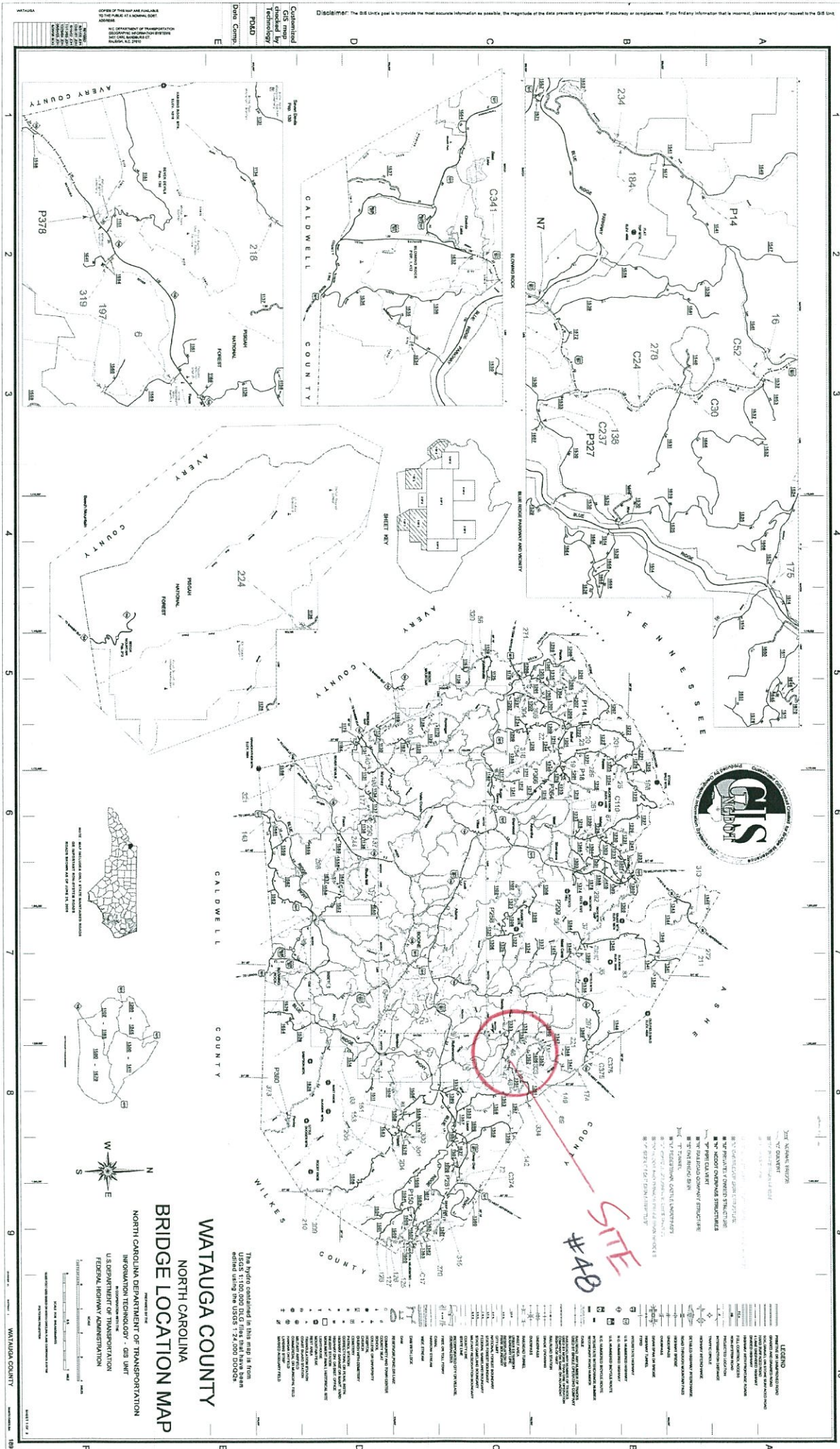
0+00 SEAT	4.4
FTG AB	6.4
+02 FTG	6.0
+02 TTG	7.2
+03 FTG	7.2
+03 WFL/WS	7.8
+10	8.0
+13	8.5
+16 WR	7.7
+18.4 ADOT	7.0
+18.4 SEAT	4.4

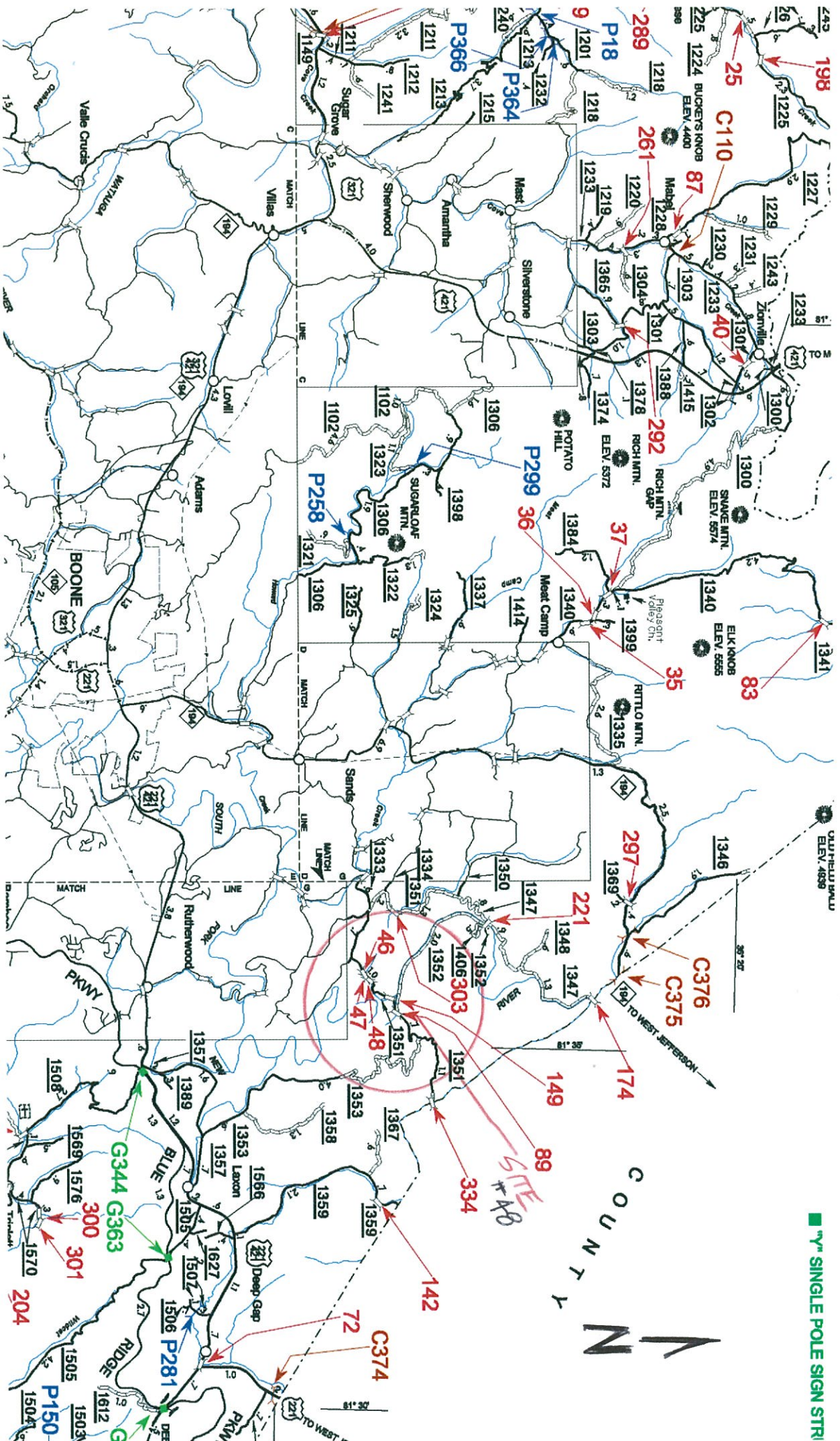
120(2000)

6% TRK

1, 8, 11, 18

940048





940048

BM MCD 293
3436

MCD 314
3945

Stone Mtn

Solo

BALD MOUNTAIN

SOUTH RIVER FORK

940048 WATAUGA CO.
SR 1351 CASTLE FORD RD.
DA= 2.7 SO MILES
QUAD SHIT TOOD

1"=2000'

MCD 317
3523

Green Cem

Hodges Cem

SANDS

NEW RIVER

940048 WATAUGA CO.
SR 135/CASTLE FORD RD.
DA= .2.7 SQ MILES
QUAD SHIT- TOOD

$$I'' = 2000'$$

48



940048



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION TEMP REPAIR

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY WATAUGA BRIDGE NUMBER 940048 INSPECTION CYCLE 2 YRS
ROUTE SR1351 ACROSS CREEK M.P. 0

LOCATION .4 MI.NE.JCT.SR1354

SUPERSTRUCTURE TIMBER FLOOR ON I-BEAMS

SUBSTRUCTURE E.BT1:TIMBER P&S;E.BT2:TIMBER CAP/TIM.P&CONC.SILL

SPANS 1 @ 18'-6

LONGITUDE 81° 35' 48.4"

LATITUDE 36° 16' 6.5"

PRESENT CONDITION FAIR

INVENTORY RATING

INSPECTION DATE 10/05/2011

OPERATING RATING

PRESENT POSTING Not Posted

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>

DA = 1737.6659 acres
= 2.715 Sq.M.
DA = 2.71 Sq.M.
QUAD SHEET / TODD

BRIDGE MANAGEMENT UNIT
DATA ON EXISTING STRUCTURE

Run Date: 11/02/2011

940048

COUNTY :	WATAUGA	DIV :	11	DIST :	2	STRUCTURE NUMBER :	940048	LENGTH :	19	FEET
ROUTE CARRIED :	SR1351	FEATURE INTERSECTED :	CREEK							
LOCATED :	.4 MI.NE.JCT.SR1354		BRIDGE NAME :					CITY :		
FUNC. CLASS :	09	SYST.ON :	NFA	SYST.UNDER :	NFA	ADT & YR :	120 2000	RAIL TYPE :	LT 227	RT 227
BUILT :	1960	BY :	BMU	PROJ :		FED.AID PROJ :		DESIGN LOAD :	Other or Unknown	
REHAB :	1989	BY :	BMU	PROJ :	5.7551	ALIGNMENT :	TAN	SKEW :	75	LANES :
										ON 2 UNDER
NAVIGATION :	VC	0.0	FT	HC	0.0	FT	HT. CRN. TO BED :	7	FT	WATER DEPTH :
										2 FT
SUPERSTRUCTURE :	TIMBER FLOOR ON I-BEAMS									
SUBSTRUCTURE :	E.BT1:TIMBER P&S;E.BT2:TIMBER CAP/TIM.P&CONC.SILL									
SPANS :	1 @ 18'-6									
BEAMS OR GIRDERS :	9 LINES 12 I-BEAMS @ 2'-2.125 CENTERS									
FLOOR :	4X8 TIM/1.5 AWS		ENCROACHMENT :					DECK (OUT TO OUT) :	20.1 FT	
CLEAR ROADWAY :	19.2 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-1	OPE.RTG. :	HS-1	CONTR.MEMBER :	Ext Beam	POSTED :	SV	TTST	DATE	11/28/1995
SYSTEM :	Secondary S.R. Route					GREEN LINE ROUTE :	N			
2ND OPENING :			3RD OPENING :			4TH OPENING :			5TH OPENING :	
REMARKS :										

940048

Structure 940048

County WATAUGA

Date: 10/05/2011

Structure Photos



LOOKING WEST

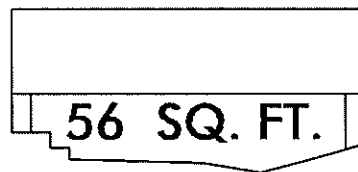


LOOKING UPSTREAM

WATAUGA 940048

SCALE: 10

SOUNDING



└ OPENING

