



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

December 8, 2003

US Army Corps of Engineers
Regulatory Field Office
151 Patton Ave.
Room 208
Asheville, NC 28801-5006

ATTENTION: Mr. Steve Lund
NCDOT Coordinator

Dear Sir:

Subject: **Nationwide 23 Permit Application** for the Replacement of Bridge No. 163 over the Pigeon River Overflow on NC 151, Haywood County, NC; Federal Aid Project No. BRSTP-276(2), State Project No. 8.1944601, TIP B-3470, Division 14.

Please find enclosed three copies of the project planning report for the above referenced project. Bridge No. 163 will be replaced in the same location with a new bridge, approximately 100 feet (30 m) in length with a 40-foot (12.2 m) clear roadway width. The bridge will have two 12.0-foot (3.6 m) travel lanes and 8.0-foot (2.4 m) lateral offsets on each side. The new approach roadway will include two 12-foot (3.6 m) travel lanes and 8-foot (2.4 m) shoulders on each side including four feet (1.2 m) paved shoulders. The elevation of the bridge will be approximately the same as the existing structure.

There will be no permanent impacts to jurisdictional wetlands or surface waters by the construction of the bridge. The structure is over an overflow channel that does not sustain normal water flow and is observed to only maintain a small amount of standing water. Therefore, no temporary fill is anticipated as a result of the removal of the bridge.

The bridge will be built by driving piles and then using top-down construction. Therefore no causeway or work pad needed and there will be no temporary impacts associated with construction access for this project.

During construction, traffic will be maintained on an off-site detour using NC 215, SR 1876, and NC 110 with a length of approximately 2.8 miles (4.5 km).

Bridge Demolition

Bridge Demolition: Bridge No. 163 is a four span bridge composed of a reinforced concrete floor on continuous I-beams. The existing structure is 89 feet (27 m) long with a 25.8-foot (7.86 m) clear roadway width. The deck of the bridge is 16 feet (4.8 m) above the streambed. All measures will be taken to avoid any temporary fill from entering Waters of the U.S. Best Management Practices for Bridge Demolition and Removal will be implemented.

The Pigeon River Overflow has not been assigned a classification; however, the overflow drains into the West Fork Pigeon River which is classified as “WS-III Tr” by the North Carolina Department of Environment and Natural Resources. “WS-III” waters are protected as water supplies and are generally located in low to moderately developed watersheds. The designation “Tr” indicates trout waters which are protected for natural trout propagation and the survival of stocked trout.

As noted in the project’s CE document, NCDOT will observe an in-stream construction moratorium from November 1 to April 15 to avoid impacts to trout reproduction.

Federally Protected Species

Some populations of fauna and flora have been in, or are in, the process of decline either due to natural forces or their inability to co-exist with human activities. Federal law (under the provisions of the Endangered Species Act (ESA) of 1973, as amended) requires that any action likely to adversely affect a species classified as federally protected be subject to review by the United States Fish and Wildlife Service (USFWS). Other species may receive additional protection under separate state laws. Plants and animals with federal classifications of Endangered (E), Threatened (T), Proposed Endangered (PE) and Proposed Threatened (PT) are protected under provisions of ESA §§7 and 9, as amended.

As of January 29, 2003, the USFWS lists 9 federally protected species for Haywood County. Table 1 depicts these species.

Table 1. Federally Protected Species for Haywood County

Common Name	Scientific Name	Status
Bog turtle	<i>Clemmys muhlenbergii</i>	T(S/A)
Eastern cougar	<i>Felis concolor cougar</i>	E
Carolina northern flying squirrel	<i>Glaucomys sabrinus coloratus</i>	E
Bald eagle	<i>Haliaeetus leucocephalus</i>	T
Gray bat	<i>Myotis grisescens</i>	E
Appalachian elktoe	<i>Alasmidonta raveneliana</i>	E
Spruce-fir moss spider	<i>Microhexura montivaga</i>	E
Rock gnome lichen	<i>Gymnoderma lineare</i>	E
Small-whorled pogonia	<i>Isotria medeoloides</i>	T

Note for Status:

- *Threatened (T)* denotes a taxon “likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range.”
- *Threatened (T(S/A))* denotes a taxon threatened due to similarity of appearance with other rare species.
- *Endangered (E)* denotes a taxon “in danger of extinction throughout all or a significant portion of its range.”

Small-whorled pogonia will need to be re-surveyed during the flowering season before construction of the bridge begins.

Appalachian elktoe has not been found in the project vicinity, but 15 individuals were found from the confluence of the overflow and the West Fork Pigeon River to the next bridge downstream.

Regulatory Approvals

Section 404 Permit: This project is being processed by the Federal Highway Administration as a "Categorical Exclusion" in accordance with 23 CFR 771.115(b). Therefore, we do not anticipate requesting an individual permit but propose to proceed under a Nationwide 23 as authorized by a Nationwide Permit 23 (67 FR 2020; January 15, 2002).

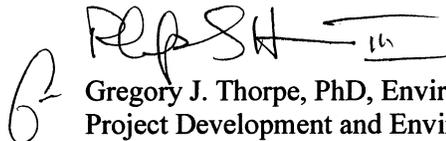
Section 401 Permit: We anticipate 401 General Certification number 3403 will apply to this project. In accordance with 15A NCAC 2H, Section .0500(a) we are providing two copies of this application to the North Carolina Department of Environmental and Natural Resources, Division of Water Quality, for their review.

We anticipate that comments from the North Carolina Wildlife Resources Commission (NCWRC) will be required prior to authorization by the Corps of Engineers. By copy of this letter and attachment, NCDOT hereby requests NCWRC review. NCDOT requests that NCWRC forward their comments to the Corps of Engineers.

A copy of this permit application will be posted on the DOT website at: <http://www.ncdot.org/planning/pe/naturalunit/Permit.html>.

If you have any questions or need additional information, please contact Mr. Chris Underwood at (919) 715-1541.

Sincerely,

A handwritten signature in black ink, appearing to read "G. J. Thorpe", with a horizontal line extending to the right and a small mark below it.

Gregory J. Thorpe, PhD, Environmental Management Director
Project Development and Environmental Analysis Branch

cc:

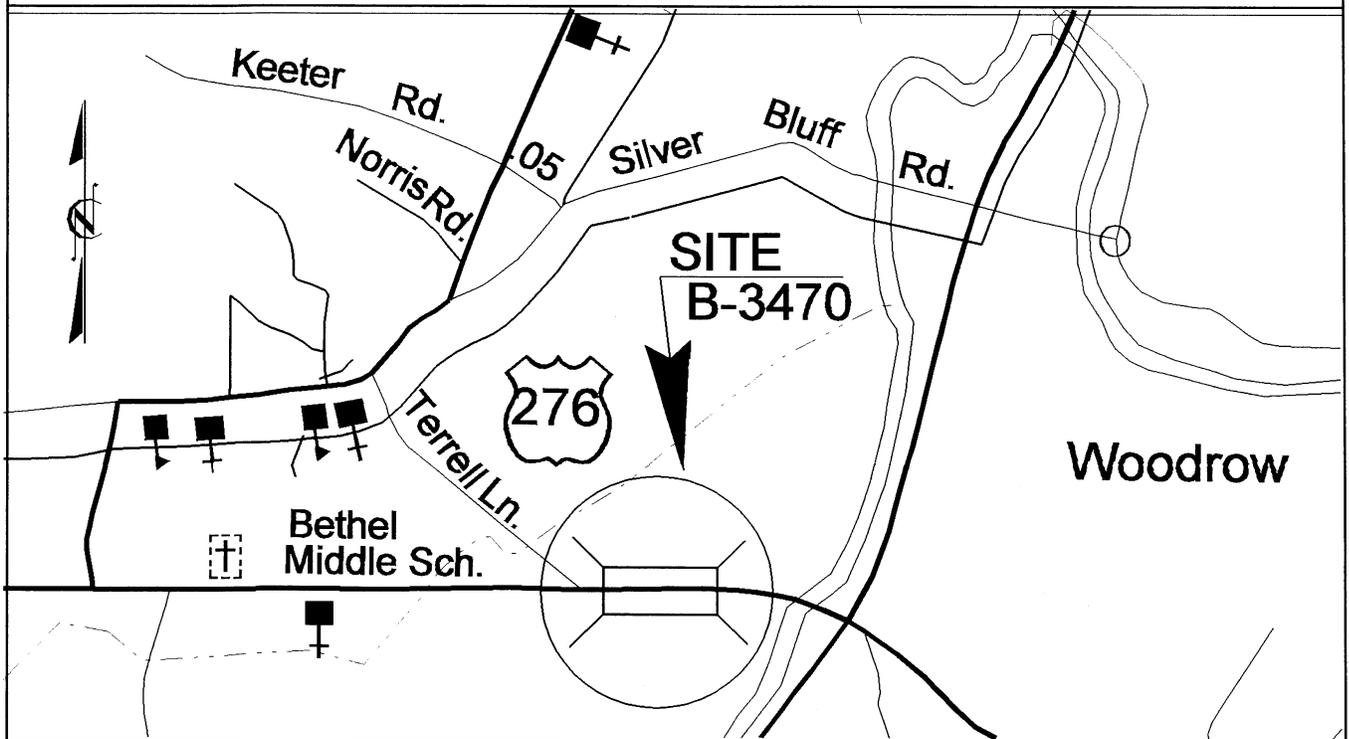
w/attachment

Mr. John Dorney, Division of Water Quality (2 copies)
Ms. Marella Buncick, USFWS
Ms. Marla Chambers, NCWRC
Mr. Greg Perfetti, P.E., Structure Design
Mr. Harold Draper, TVA

w/o attachment

Mr. David Franklin, USACE, Wilmington
Mr. Jay Bennett, P.E., Roadway Design
Mr. Omar Sultan, Programming and TIP
Ms. Debbie Barbour, P.E., Highway Design
Mr. David Chang, P.E., Hydraulics
Mr. Mark Staley, Roadside Environmental
Mr. John Sullivan, FHWA
Mr. R.G. Watson, Division Engineer
Mr. Mark Davis, DEO
Mr. John Wadsworth, Planning Engineer

NORTH CAROLINA



VICINITY
MAPS

NCDOT

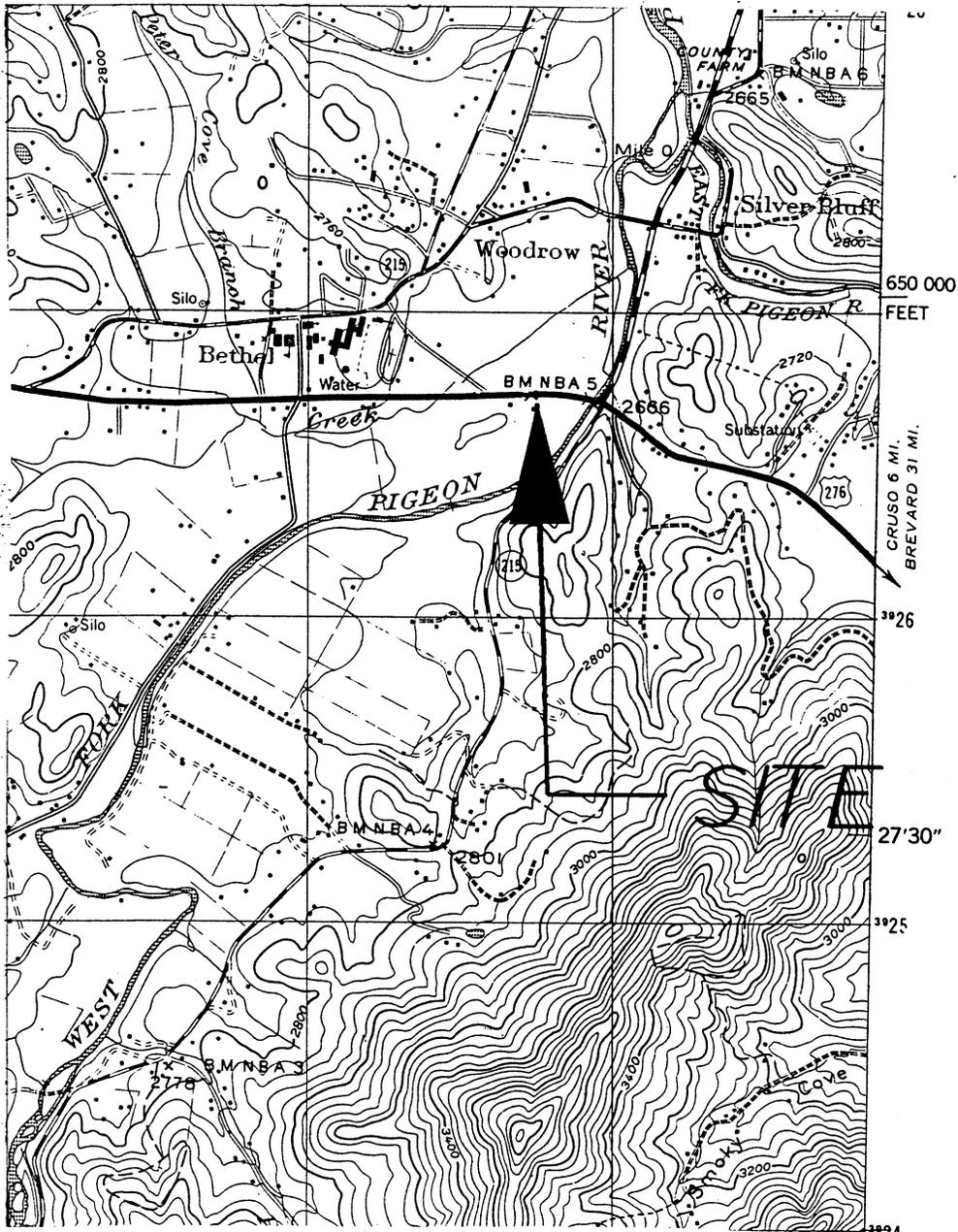
DIVISION OF HIGHWAYS

HAYWOOD COUNTY

PROJECT: 8.1944601 (B3470)

BRIDGE #163 ON US 276

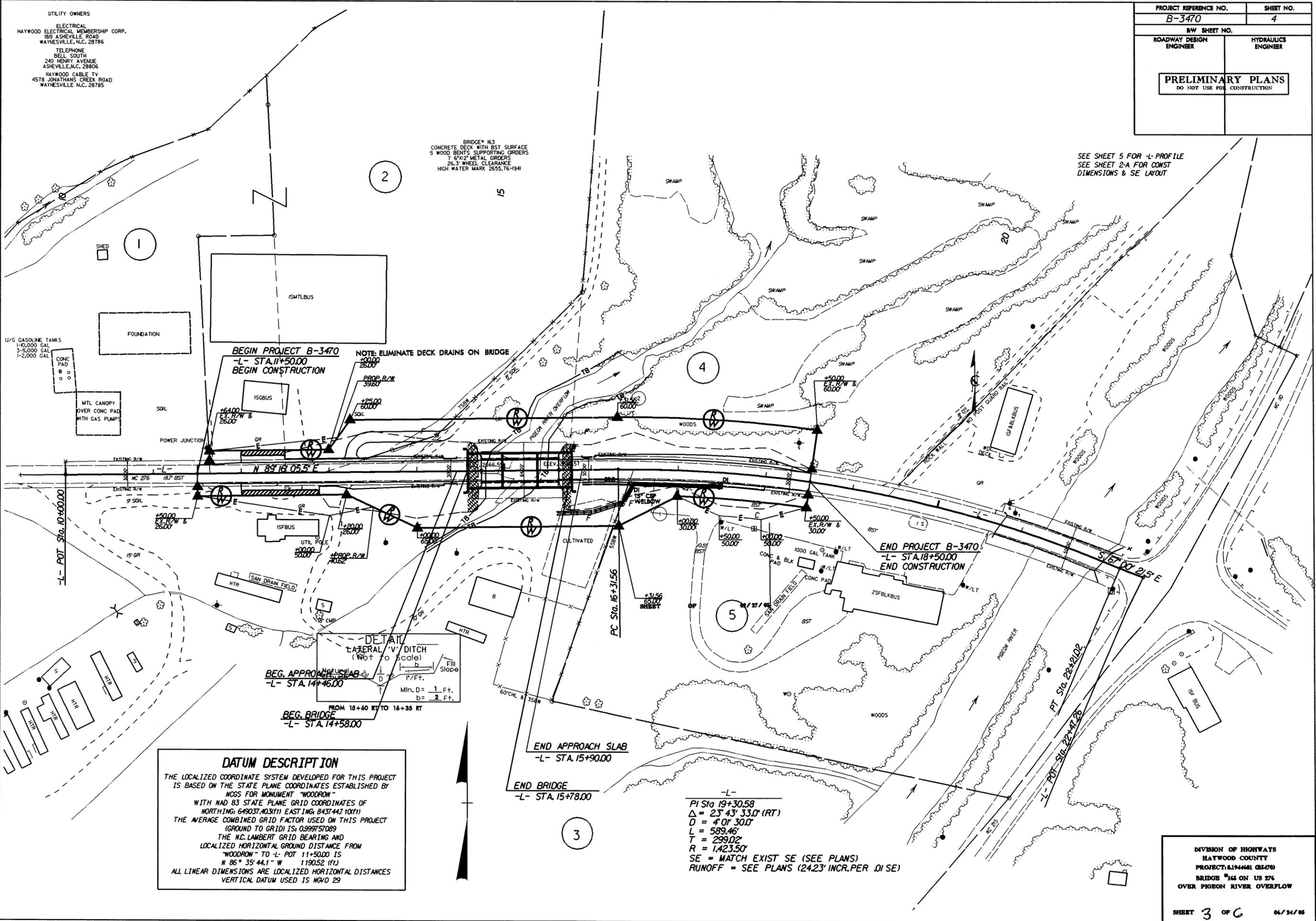
OVER PIGEON RIVER OVERFLOW



SITE MAP

NCDOT
 DIVISION OF HIGHWAYS
 HAYWOOD COUNTY
 PROJECT: 8.1944601 (B3470)
 BRIDGE #163 ON US 276
 OVER PIGEON RIVER OVERFLOW

PROJECT REFERENCE NO. B-3470	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



UTILITY OWNERS
 ELECTRICAL
 HAYWOOD ELECTRICAL MEMBERSHIP CORP.
 189 ASHEVILLE ROAD
 WAYNESVILLE, N.C. 28786
 TELEPHONE
 BELL SOUTH
 240 HENRY AVENUE
 ASHEVILLE, N.C. 28806
 HAYWOOD CABLE TV
 4578 JONATHAN'S CREEK ROAD
 WAYNESVILLE, N.C. 28785

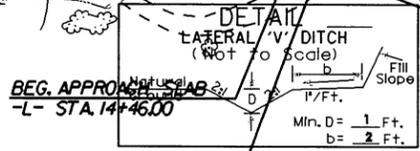
BRIDGE #163
 CONCRETE DECK WITH BST SURFACE
 5 WOOD BENTS SUPPORTING GIRDERS
 7 6"x12" METAL GIRDERS
 26.3' WHEEL CLEARANCE
 HIGH WATER MARK 2655.76-1941

SEE SHEET 5 FOR -L- PROFILE
 SEE SHEET 2-A FOR CONST
 DIMENSIONS & SE LAYOUT

BEGIN PROJECT B-3470
 -L- STA. 11+50.00
BEGIN CONSTRUCTION

NOTE: ELIMINATE DECK DRAINS ON BRIDGE

END PROJECT B-3470
 -L- STA. 18+50.00
END CONSTRUCTION



DATUM DESCRIPTION
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "WOODROW" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 649037.403(1) EASTING: 843744.101(1) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999757089 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "WOODROW" TO -L- POT 11+50.00 IS N 86° 35' 44.1" W 1190.52 (1F1) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS MVD 29

-L-
 PI Sta 19+30.58
 $\Delta = 23^{\circ} 43' 33.0"$ (RT)
 $D = 4' 01' 30.0"$
 $L = 589.46'$
 $T = 299.02'$
 $R = 1,423.50'$
 SE = MATCH EXIST SE (SEE PLANS)
 RUNOFF = SEE PLANS (24.23' INCR. PER .01 SE)

5-1-03 R/W REV: ADDITIONAL TOPO - 1 STORY METAL BUSINESS & CONCRETE PAD WITH U/G TANKS & GAS VENTS

25 JUN 2003 08:48
 REVISED BY: JAL
 PERMIT: PLN.dgn

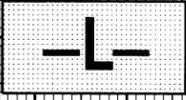
DIVISION OF HIGHWAYS
 HAYWOOD COUNTY
 PROJECT: 81944681 (B-3470)
 BRIDGE #163 ON US 276
 OVER PIGEON RIVER OVERFLOW
 SHEET 3 OF 6 06/24/05

5/14/99

ENGLISH

PROJECT REFERENCE NO. B-3470	SHEET NO. 5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

BM *2 CHISLED X ON EAST END OF CONCRETE HEAD WALL
S 87° 58' 32.63" W 790.50' FROM -L- STA 13+00.00
ELEV. 2665.80



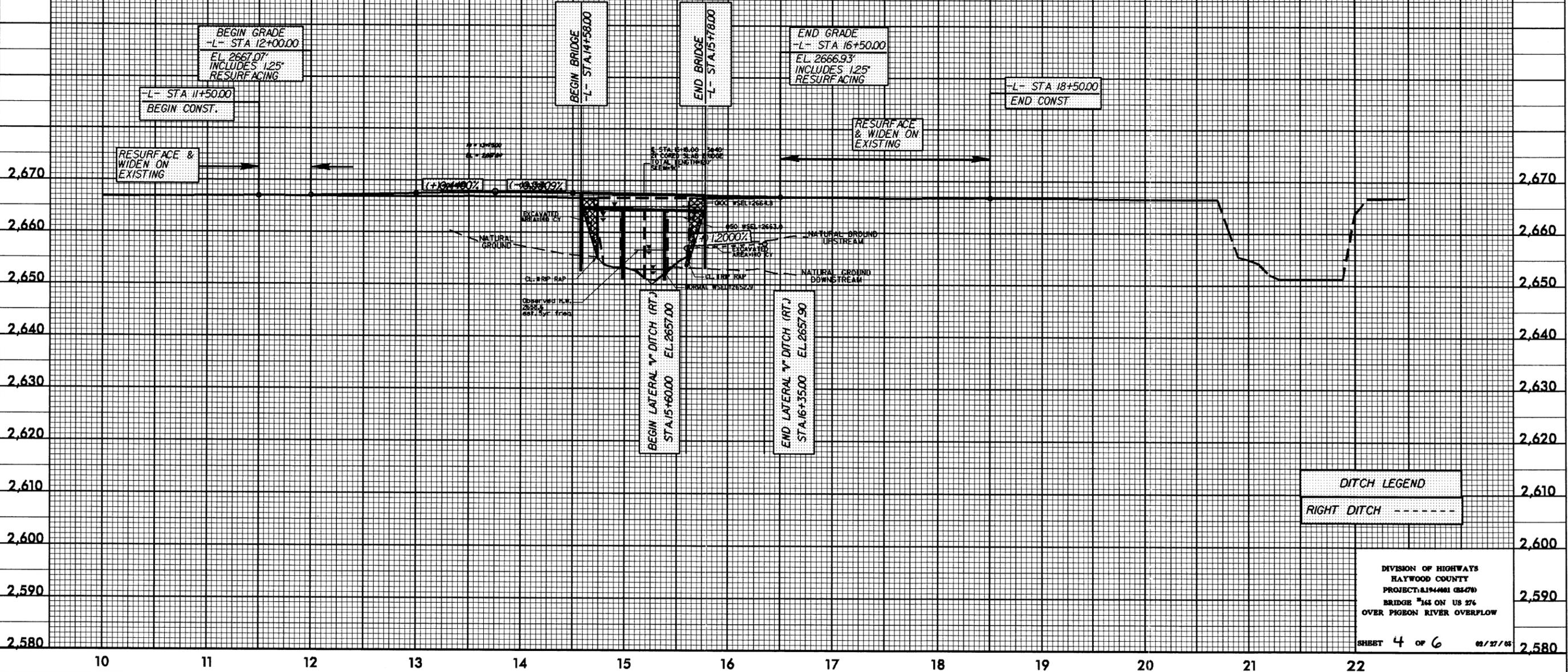
BM *3 8" SPIKE IN BASE OF 15' CHERRY TREE
72.97' LEFT OF -L- STA 15+07.27
ELEV. 2656.80

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= N/A CFS
DESIGN FREQUENCY	= 50 YRS
DESIGN HW ELEVATION	= 2663.0 FT
BASE DISCHARGE	= N/A CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 2664.8 FT
OVERTOPPING DISCHARGE	= N/A CFS
OVERTOPPING FREQUENCY	= 100+ YRS
OVERTOPPING ELEVATION	= 2666.7 FT
ESTIMATED NORMAL W.S. ELEV.	= 2652.9 FT
DATE OF SURVEY	= 9/12/02
W.S. ELEVATION AT DATE OF SURVEY	= 2652.9 FT

BM *4 NCGS MONUMENT *NBA 5' ON EAST ABUTMENT OF BRIDGE
OVER WEST FORK PIGEON RIVER
15.40' RIGHT OF -L- STA 21+97.12
ELEV. 2665.85

PI = 13+75.00
EL = 2667.84
VC = 150'
K = 195



DITCH LEGEND
RIGHT DITCH - - - - -

DIVISION OF HIGHWAYS
RAYWOOD COUNTY
PROJECT: R194481 (B-3470)
BRIDGE #165 ON US 276
OVER PIGEON RIVER OVERFLOW
SHEET 4 OF 6 02/27/05

R5 JUN-2003 08:27:17 PERMIT.PFL.dgn

PROPERTY OWNERS
NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
1	DANNY HEATHERLY	737 LOVE JOY ROAD CANTON NC
2	PISGAH OIL CO. C/O STEVE SINGLETON	5746 PIGEON RD CANTON NC 28716
3	JOYCE A. HARGROVE RUBY PAYNE HARGROVE	1910 LOVEJOY RD CANTON NC 28716
4	BOBBY M. MC KAY	281 BOB HENSON RD CANTON NC 28716
5	FOUR STAR CONVENIENCE,INC	PO BOX 405 WAYNESVILLE NC 28716

NCDOT
DIVISION OF HIGHWAYS
HAYWOOD COUNTY
PROJECT: 8.1944601 (B3470)
BRIDGE #163 ON US 276
OVER PIGEON RIVER OVERFLOW

