



PAT McCRORY
Governor

NICHOLAS J. TENNYSON
Secretary

November 30, 2015

Mr. Andy Williams
U.S. Army Corps of Engineers
Regulatory Field Office
3331 Heritage Trade Drive, Suite 105
Wake Forest, NC 27587

Dear Mr. Williams:

Subject: Additional information regarding the replacement of Bridge No. 8 over Drowning Creek on SR 1203/1412 (Turnpike Road), Hoke and Scotland Counties, North Carolina. Federal Aid Project No. BRZ-1203(2), TIP Project B-4967.

Reference: National Park Service letter to the U.S. Army Corps of Engineers dated November 4, 2015

As you are aware, the North Carolina Department of Transportation (NCDOT) proposes to replace the existing Bridge No. 8 over Drowning Creek on SR 1203/1412 (Turnpike Road) in Hoke and Scotland Counties, North Carolina. NCDOT has received a copy of the November 4, 2015 letter from the National Park Service (NPS) to the U.S. Army Corps of Engineers requesting additional information about the proposed bridge.

The existing Bridge No. 8 was built in 1951, and is considered in poor condition and structurally deficient with a sufficiency rating of 27.46 out of 100 for a new structure. This project is scheduled to be let for construction on June 21, 2016 due to its age and deteriorated condition.

Specifically, the NPS requested additional information regarding 1) justification for placement of bridge abutments (i.e. width of the new span), 2) a description of impact avoidance measures associated with the removal of the old span, 3) a description of how the bridge design and aesthetics minimize the contrast of the structure with the surrounding environment, and 4) an evaluation of the potential recreational access to the river. These issues are addressed below:

- 1) Bridge abutment placement: The existing bridge is a 6 span structure (6 @ 35' - overall length=210'). Presently there are 3 bents within the normal water surface/ordinary high water. The new bridge will be a 3 span structure (1 @ 70'; 1 @ 85'; 1 @ 70' box beam - overall length=225') and will have no bents within the normal water surface. Based on modeling the new bridge will result in minimal impact to backwater with slight decreases in 10, 25, and 100 yr storm events.
- 2) Impact avoidance measure associated with demolition: The existing bridge has a timber deck. Demolition will involve removal of the exiting beams, and under normal BMP's very little if



any debris would fall into the creek. If it is absolutely necessary that no debris be allowed in the creek, tarps would have to be installed under the bridge to catch any small splinters of wood that fall during the removal of the deck.

- 3) Bridge design and aesthetics: No aesthetic treatments are planned for this structure. The Lumber River State Park indicated by e-mail dated February 24, 2014 that the proposed project "will not have any adverse effect on Lumber River State Park". The bridge is on a bike route so the bridge design includes 2-bar metal rails. According to the current state budget, we have been instructed that any aesthetic treatment above standard treatment will have to be paid for by the requesting party.
- 4) Recreational access: In addition to being bicycle route, there is a boat access just southwest of the project limits, and we are not impacting the access entrance during construction or after completion.

Additionally, NCDOT also has updated information regarding the impacts of proposed utility work on B-4967. The relocation of power transmission poles will involve handclearing 0.03 acre of wetlands. Enclosed you will find the permit drawings depicting this work.

If you have any questions or need additional information, please contact Gordon Cashin at (919) 707-6107.

Sincerely,



for Richard W. Hancock, P.E., Manager
Project Development and Environmental Analysis Unit

cc: NCDOT Permit Application Standard Distribution List

09/08/99

TIP PROJECT: B-4967

02-NOV-2015 13:57
R:\Utilities\Engineering\UB0\Proj\B4967_Ut_tsh_UEL_psh.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$

| | |
|------------|-----------|
| T.I.P. NO. | SHEET NO. |
| B-4967 | UE-1 |

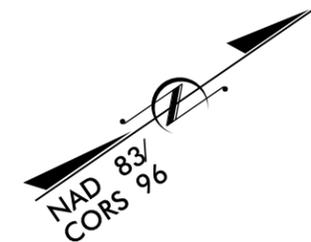
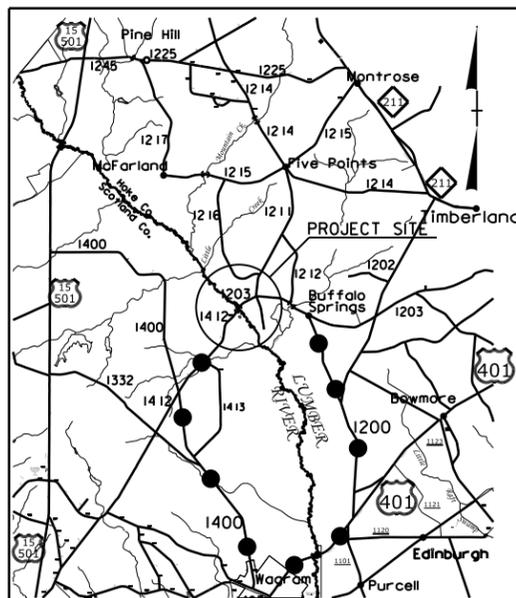
UTILITY PERMIT DRAWING
SHEET 1 OF 3
NOV. 2, 2015

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

UTILITIES PERMIT PLANS SCOTLAND & HOKE COUNTY

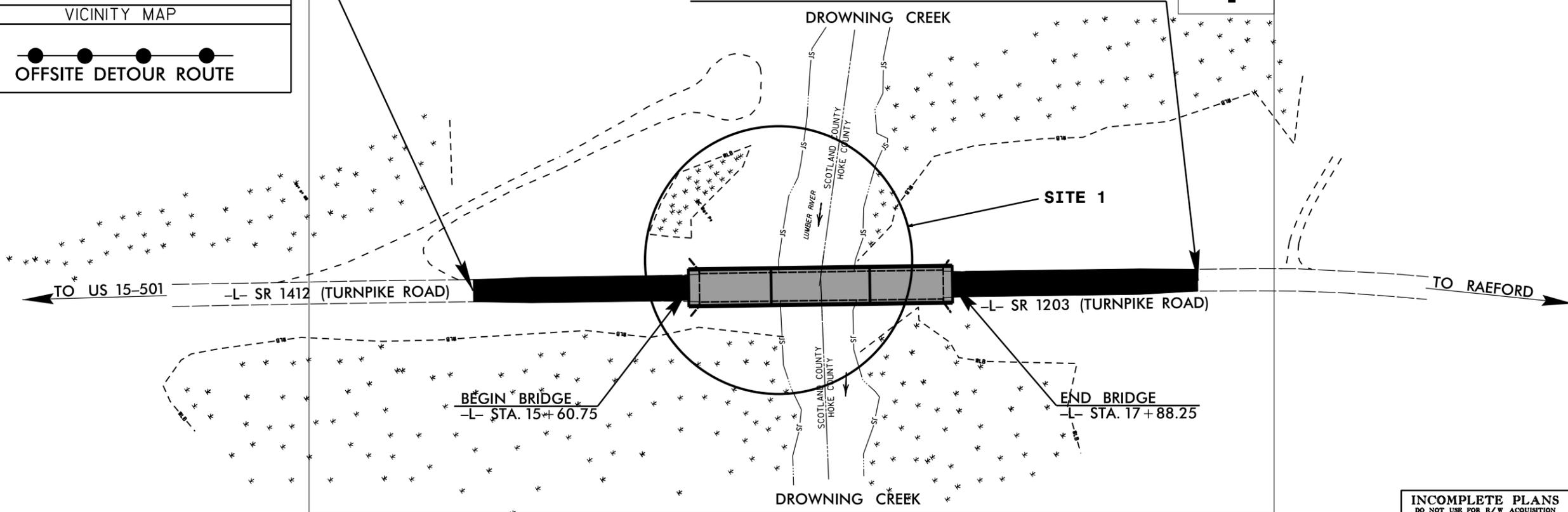
LOCATION: BRIDGE NO.8 OVER DROWNING CREEK ON
SR 1412/SR 1203 (TURNPIKE ROAD)

TYPE OF WORK: TRANSMISSION TOWER RELOCATION

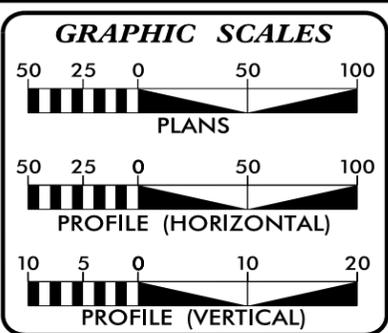


STA. 13+75.00 -L- BEGIN TIP STATE PROJECT B-4967

STA. 20+00.00 -L- END TIP STATE PROJECT B-4967



INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



| SHEET NO. | DESCRIPTION |
|-----------|--------------------------------|
| UE-1 | TITLE SHEET |
| UE-2 | UTILITY RELOCATION PLAN SHEETS |

| UTILITY OWNERS ON PROJECT |
|------------------------------|
| (A) POWER ; LUMBER RIVER EMC |



PREPARED IN THE OFFICE OF:
DIVISION OF HIGHWAYS
UTILITIES UNIT
UTILITIES ENGINEERING

1555 MAIL SERVICES CENTER
RALEIGH, NC 27699-1555
PHONE (919) 707-6690
FAX (919) 250-4151

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Steve McKee, P.E. UTILITIES SQUAD LEADER PROJECT ENGINEER
J.T. Yoon, P.E. UTILITIES PROJECT DESIGNER

WETLAND PERMIT IMPACT SUMMARY

| Site No. | Station (From/To) | Structure Size / Type | WETLAND IMPACTS | | | | | SURFACE WATER IMPACTS | | | | |
|-----------------|-----------------------------|-------------------------|---------------------------------|-----------------------------|-----------------------------|--------------------------------------|--------------------------------|---------------------------|-----------------------|---|-------------------------------------|----------------------------|
| | | | Permanent Fill In Wetlands (ac) | Temp. Fill In Wetlands (ac) | Excavation in Wetlands (ac) | Mechanized Clearing in Wetlands (ac) | Hand Clearing in Wetlands (ac) | Permanent SW impacts (ac) | Temp. SW impacts (ac) | Existing Channel Impacts Permanent (ft) | Existing Channel Impacts Temp. (ft) | Natural Stream Design (ft) |
| 1 | -L- 15+33.49 TO 15+87.56 LT | POWER TRANSMISSION LINE | | | | | 0.02 | | | | | |
| | -L- 17+12.56 TO 17+53.93 LT | POWER TRANSMISSION LINE | | | | | 0.01 | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| TOTALS*: | | | | | | | 0.03 | | | 0 | 0 | 0 |

NOTES:
 EXISTING TRANSMISSION LINE HAS 25' CLEARANCE FROM THE LINE AND UTILITY COMPANY HAS ALREADY CLEARED THIS AREA.
 PROPOSED TRANSMISSION LINE WILL HAVE 30' CLEARANCE AND UTILITY COMPANY NEEDS ADDITIONAL HAND CLEARING.

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 11/4/2015
 SCOTLAND & HOKE
 B - 4967

SHEET 3 OF 3