

## MINIMUM CRITERIA DETERMINATION CHECKLIST

**TIP Project No.:BR-0011**

**State Project No.: WBS 67011.1.1**

**Project Location: Replacement of Bridge 190002 on NC 141 over Slow Creek**

### **Project Description:**

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 190002 on NC 141 over Slow Creek in Cherokee County. The purpose of the project is to replace a structurally deficient bridge.

The replacement structure will be approximately 70 feet long providing a minimum 39-foot 10-inch clear deck width. The bridge will include two twelve-foot lanes and seven-foot eleven-inch offsets on each side. The bridge length is based on preliminary design information and is set by hydraulic requirements. The roadway grade of the new structure will be approximately the same as the existing structure.

Project construction will extend approximately 420 feet from the north end of the new bridge and 310 feet from the south end of the new bridge. The approaches will be widened to provide two twelve-foot lanes and eight-foot shoulders (two-foot paved). The roadway will be designed as a Rural Collector using Sub-Regional Tier Guidelines with a 50-mile per hour design speed.

The new bridge will be constructed at its existing location. Traffic will utilize an onsite detour via a temporary bridge, to be constructed just east of the existing bridge, during the construction period.

**Purpose and Need:** The purpose of the proposed project is to remove a structurally deficient bridge. NCDOT Bridge Management Unit records indicate Bridge No. 190002 currently has a sufficiency rating of 7.79 out of a possible 100 for a new structure. The existing bridge is considered structurally deficient due to a substructure condition appraisal of 4 out of a possible 9 points. The bridge is also considered functionally obsolete due to a structural appraisal of 3 out of a possible 9 points.

### **Anticipated Permit or Consultation Requirements:**

A Nationwide Permit 14 will likely be applicable for this project. The USACE holds the final discretion as to what Section 404 permit will be required to authorize project construction. If a Section 404 permit is required, then a Section 401 Water Quality Certification (WQC) from the NCDWR will be needed.

### **Special Project Information:**

#### **Alternatives Evaluation:**

Two alternatives were evaluated for the bridge replacement, including a bridge and culvert

option with an on-site detour. During the development of the project, the bridge alternative was chosen as the preferred alternative due to preferences from the Division on maintenance as well as potential permitting concerns related to a culvert.

**Pedestrian and Bicycle Accommodations:** NC 141 is located on NC Bike Route 2; however, there are no existing pedestrian or bicycle accommodations near the project area nor are there plans for such accommodations, per the 2013 Cherokee County Comprehensive Transportation Plan.

**Estimated Costs:**

Utility – in development  
R/W – in development  
Construction - \$2.2M

**Estimated Traffic:**

|                     |           |
|---------------------|-----------|
| Current Year (2018) | 4,200 vpd |
| Future Year (2040)  | 4,800 vpd |
| TTST                | 1%        |
| Dual                | 5%        |

**Hazardous Materials:**

Three (3) sites of concern were identified within the project study area, as identified in the BR-0011 GeoEnvironmental Planning Report (September 25, 2018). However, the project is not expected to directly impact any of the identified sites.

**PART A: MINIMUM CRITERIA**

***Item 1 to be completed by the Engineer.***

1. Is the proposed project listed as a type and class of activity allowed under the Minimum Criteria Rule in which environmental documentation is not required?

**YES**

**NO**

If the answer to number 1 is “no”, then the project does not qualify as a minimum criteria project. A state environmental assessment is required.

If yes, under which category?      **2**

If either category #8, #12(i) or #15 is used complete Part D of this checklist.

**PART B: MINIMUM CRITERIA EXCEPTIONS**

***Items 2 – 4 to be completed by the Engineer.***

2. Could the proposed activity cause significant changes in land use concentrations that would be expected to create adverse air quality impacts?
3. Will the proposed activity have secondary impacts or cumulative impacts that may result in a significant adverse impact to human health or the environment?
4. Is the proposed activity of such an unusual nature or does the proposed activity have such widespread implications, that an uncommon concern for its environmental effects has been expressed to the Department?

**YES**

**NO**






***Item 5-8 to be completed by Division Environmental Officer.***

5. Does the proposed activity have a significant adverse effect on wetlands; surface waters such as rivers, streams, and estuaries; parklands; prime or unique agricultural lands; or areas of recognized scenic, recreational, archaeological, or historical value?
6. Will the proposed activity endanger the existence of a species on the Department of Interior's threatened and endangered species list?
7. Could the proposed activity cause significant changes in land use concentrations that would be expected to create adverse water quality or ground water impacts?

- |  | YES                      | NO                                  |
|--|--------------------------|-------------------------------------|
| 8. Is the proposed activity expected to have a significant adverse effect on long-term recreational benefits or shellfish, finfish, wildlife, or their natural habitats? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**PART C: COMPLIANCE WITH STATE AND FEDERAL REGULATIONS**

***Items 9- 12 to be completed by Division Environmental Officer.***

- |  | YES                                 | NO                                  |
|--|-------------------------------------|-------------------------------------|
| 9. Is a federally protected threatened or endangered species, or its habitat, likely to be impacted by the proposed action?  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 10. Does the action require the placement of temporary or permanent fill in waters of the United States?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 11. Does the project require the placement of a significant amount of fill in high quality or relatively rare wetland ecosystems, such as mountain bogs or pine savannahs? | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 12. Is the proposed action located in an Area of Environmental Concern, as defined in the coastal Area Management Act?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

***Items 13 – 15 to be completed by the Engineer.***

- |  |                          |                                     |
|--|--------------------------|-------------------------------------|
| 13. Does the project require stream relocation or channel changes? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--|--------------------------|-------------------------------------|

**Cultural Resources**

- |   |                          |                                     |
|---|--------------------------|-------------------------------------|
| 14. Will the project have an “effect” on a property or site listed on the National Register of Historic Places?                 | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 15. Will the proposed action require acquisition of additional right of way from publicly owned parkland or recreational areas? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

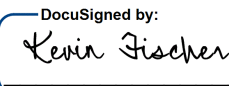
**Response to Question 10:**

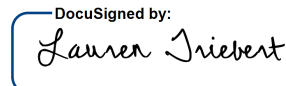
Approximately 1,612 linear feet of jurisdictional water resources and 0.38 acres of jurisdictional wetlands were identified within the study area, which is larger than the expected construction limits. The study area accounts for a 500' buffer of the existing centerline of NC 141 and extends approximately one mile along NC 141, centered around the bridge location. Exact impact acreages, including required extent of fill placement, will be determined during final design for permitting purposes. NCDOT will be pursuing the required USACE/DWR permits.

**PART D:( To be completed when either category #8, 12(i) or #15 of the rules are used.)**

*Items 16- 22 to be completed by Division Environmental Officer.*

- 16. Project length:
- 17. Right of Way width:
- 18. Project completion date:
- 19. Total acres of newly disturbed ground surface: -
- 20. Total acres of wetland impacts: \_\_\_\_\_
- 21. Total linear feet of stream impacts: -
- 22. Project purpose: \_\_\_\_\_

Reviewed by:  \_\_\_\_\_ Date: 5/28/2019  
ED19A18D08EC496...  
 Kevin Fischer, PE, NCDOT Structures  
 Management Unit – Assistant State  
 Structures Engineer

 \_\_\_\_\_ Date: 5/28/2019  
2A53D71008FA404...  
 Lauren Triebert, VHB Engineering;  
 Consultant Engineer

## PROJECT COMMITMENTS

Replacement of Bridge 190002 on NC 141 over Slow Creek  
Cherokee County  
WBS 67011.1.1  
STIP Project BR-0011

The following special commitments have been agreed to by NCDOT Structures Management Unit for the BR-0011 MCDC environmental review:

### **Division 14:**

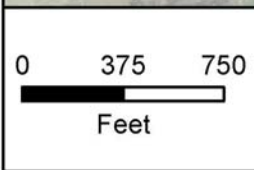
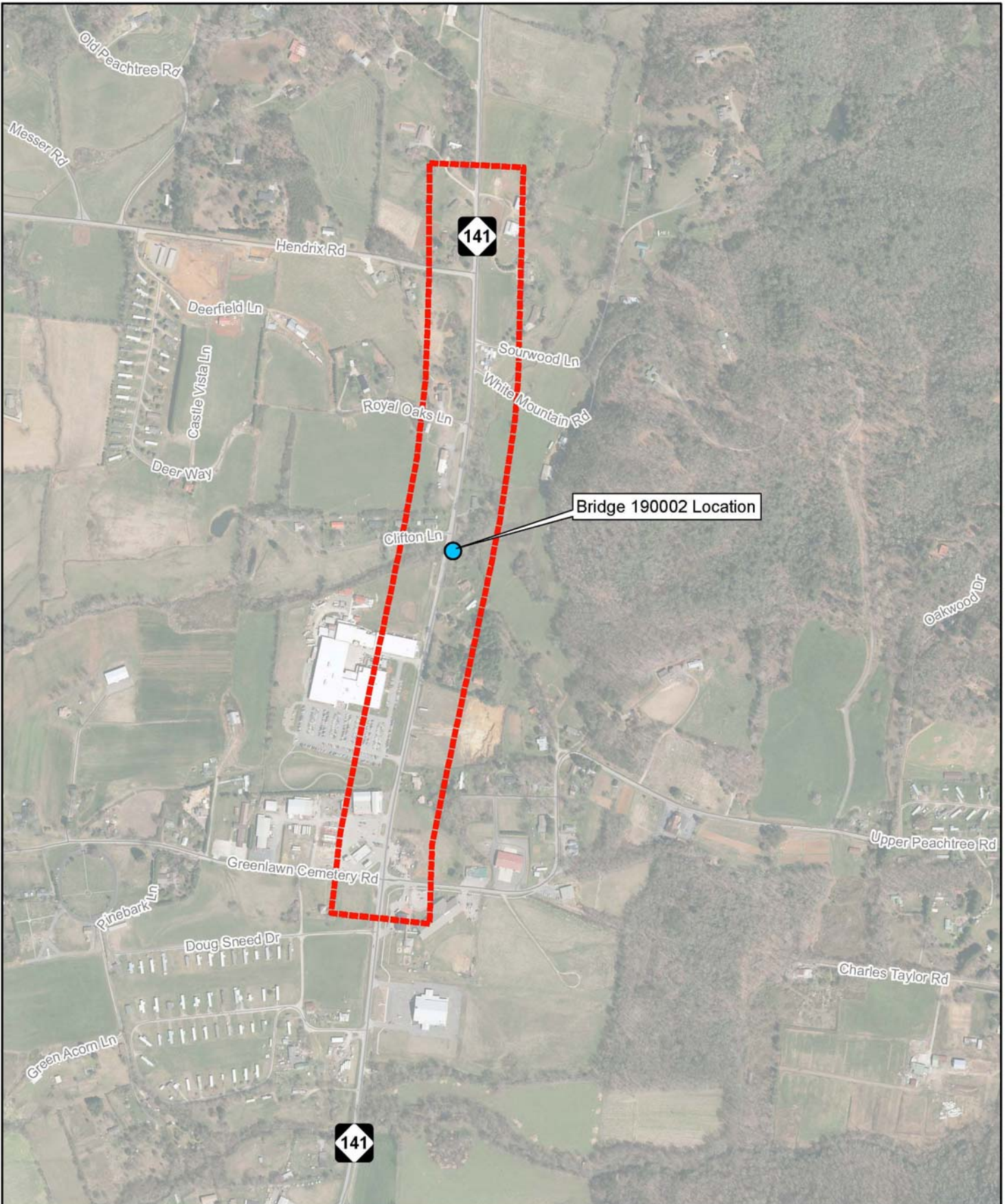
The Division shall submit sealed as-built construction plans to the Hydraulics Unit upon completion of project construction, certifying that the drainage structure(s) and roadway embankment that are located within the 100-year floodplain were built as shown in the construction plans, both horizontally and vertically.

Coordination and communication regarding emergency response plans during construction will be conducted with Cherokee County Sheriff's Office (828-837-2589) and Peachtree Fire Department (828-837-0381) at least one month prior to the start of construction.

Coordination and communication regarding impacts to school bus routes during construction will be conducted with Cherokee County Schools/Peachtree Elementary School (828-837-2479) at least one month prior to the start of construction.

### **NCDOT Central Hydraulics Unit:**

Hydraulics will coordinate with the NC Floodplain Mapping Program (FMP), to determine status of project with regard to applicability of NCDOT'S Memorandum of Agreement, or approval of a Conditional Letter of Map Revision (CLOMR) and subsequent final Letter of Map Revision (LOMR).



**Project Study Area**  
Date: April 2018

**BR-0011**  
Bridge 190002  
Cherokee County



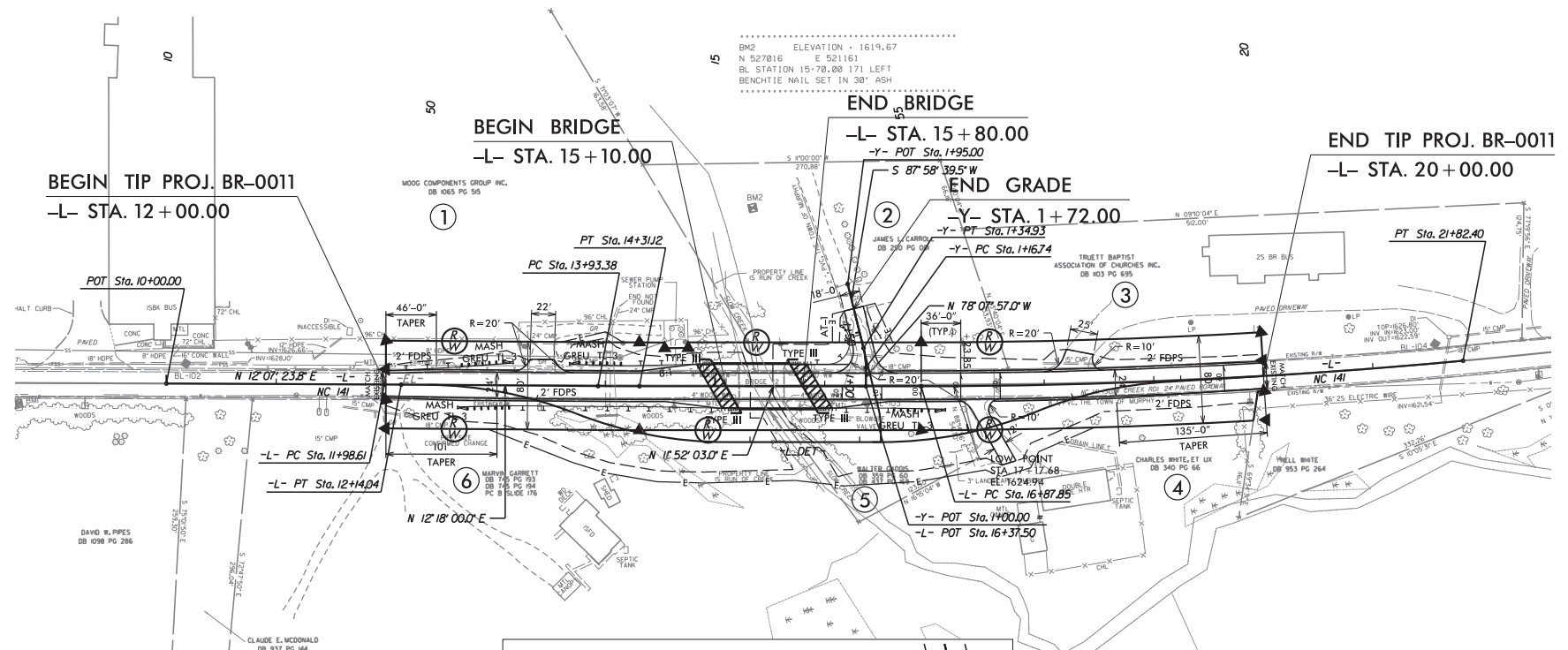
15/2/2011

| -L- CURVE DATA                    |                                   |                                   |
|-----------------------------------|-----------------------------------|-----------------------------------|
| PI Sta 12+06.32                   | PI Sta 14+12.25                   | PI Sta 19+35.31                   |
| $\Delta = 0^{\circ}10'36.2"$ (RT) | $\Delta = 0^{\circ}25'57.0"$ (LT) | $\Delta = 5^{\circ}23'50.0"$ (LT) |
| D = 108'45.3'                     | D = 108'45.3'                     | D = 108'28.3'                     |
| L = 15.42'                        | L = 37.74'                        | L = 494.55'                       |
| T = 7.71'                         | T = 18.87'                        | T = 247.46'                       |
| R = 5,000.00'                     | R = 5,000.00'                     | R = 5,250.00'                     |

| -Y- CURVE DATA                     |                                    |
|------------------------------------|------------------------------------|
| PI Sta 1+25.88                     | PI Sta 1+25.88                     |
| $\Delta = 13^{\circ}53'23.5"$ (LT) | $\Delta = 13^{\circ}53'23.5"$ (LT) |
| D = 76'23'39.7'                    | D = 76'23'39.7'                    |
| L = 16.8'                          | L = 16.8'                          |
| T = 9.14'                          | T = 9.14'                          |
| R = 75.00'                         | R = 75.00'                         |

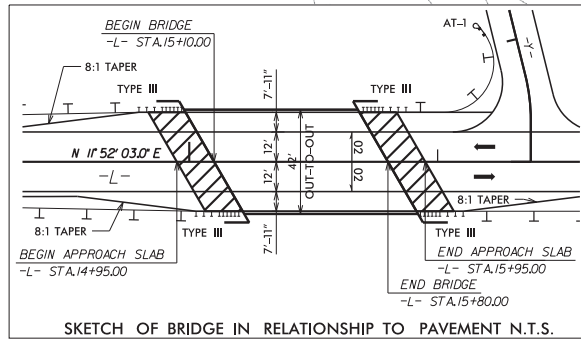


|  |                       |
|--|-----------------------|
| PROJECT REFERENCE NO.<br><b>BR-0011</b>  | SHEET NO.<br><b>4</b> |
| R/W SHEET NO.  |                       |
| ROADWAY DESIGN ENGINEER  | HYDRAULICS ENGINEER   |
| <b>INCOMPLETE PLANS</b><br>DO NOT USE FOR ACQUISITION<br><b>PRELIMINARY PLANS</b><br>DO NOT USE FOR CONSTRUCTION |                       |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED   |                       |



REVISIONS

**DATUM DESCRIPTION**  
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "BR0011-1" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 525281.5001 (ft) | EASTING: 520950.1191 (ft) | ELEVATION: 1636.2711 (ft)  
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99980165  
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BR0011-1" TO -L- STATION IS N2°17'15.4346"E, DISTANCE = 1206.4013  
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88



**RIGHT OF WAY AREA DATA**

| PARCEL NO. | PROPERTY OWNERS NAME                        | R/W AREA | TCE      |
|------------|---|----------|----------|
| 1          | MOOG COMPONENTS GROUP INC.                  | 8450 SF  | 270 SF   |
| 2          | JAMES L. CARROLL                            | 5775 SF  | 1485 SF  |
| 3          | TRUETT BAPTIST ASSOCIATION OF CHURCHES INC. | 5940 SF  | 0 SF     |
| 4          | CHARLES WHITE, ET UX                        | 7050 SF  | 2875 SF  |
| 5          | WALTER GADDIS                               | 4625 SF  | 6900 SF  |
| 6          | MARVIN GARRETT                              | 9480 SF  | 10800 SF |

**/// APPROACH SLAB**  
 FOR -L- PROFILE SEE SHEET 5  
 FOR -Y- PROFILE SEE SHEET 5

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17-12-0038



## HISTORIC ARCHITECTURE AND LANDSCAPES NO SURVEY REQUIRED FORM

This form only pertains to Historic Architecture and Landscapes for this project. It is not valid for Archaeological Resources. You must consult separately with the Archaeology Group.

### PROJECT INFORMATION

|  |   |                        |  |
|--|---|------------------------|--|
| <b>Project No:</b>   | BR-0011   | <b>County:</b>         | Cherokee   |
| <b>WBS No.:</b>  | 67011.3.1   | <b>Document Type:</b>  | MCC  |
| <b>Fed. Aid No:</b>  | N/A   | <b>Funding:</b>        | <input checked="" type="checkbox"/> State <input type="checkbox"/> Federal |
| <b>Federal Permit(s):</b>  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <b>Permit Type(s):</b> | USACE  |
| <b>Project Description:</b> Replace Bridge No. 190002 on NC 141 over Slow Creek. |   |                        |  |

### SUMMARY OF HISTORIC ARCHITECTURE AND LANDSCAPES REVIEW

**Description of review activities, results, and conclusions:**

Review of HPO quad maps, HPO GIS information, historic designations roster, and indexes was undertaken on January 4, 2018. Based on this review, there are no existing NR, SL, LD, DE, or SS properties in the Area of Potential Effects, which is 500' from the each end of the existing bridge and 75' from the centerline each way. A visual survey through aerial imagery and Google street view. There is one large industrial building south of the bridge and all other properties are one-story early to mid-20<sup>th</sup> century homes ranging from brick ranches to unremarkable frame structures and manufactured homes. All are not eligible for NR listing. Bridge No. 2 is not eligible for NR listing based on the NCDOT Historic Bridge Inventory. There are no National Register listed or eligible properties and no survey is required. If design plans change, additional review will be required.

**Why the available information provides a reliable basis for reasonably predicting that there are no unidentified significant historic architectural or landscape resources in the project area:**

HPO quad maps and GIS information recording NR, SL, LD, DE, and SS properties for the Cherokee County survey, Cherokee County GIS/Tax information, and Google Maps are considered valid for the purposes of determining the likelihood of historic resources being present. There are no National Register listed or eligible properties within the APE and no survey is required.

### SUPPORT DOCUMENTATION

Map(s)    Previous Survey Info.    Photos    Correspondence    Design Plans

### FINDING BY NCDOT ARCHITECTURAL HISTORIAN

Historic Architecture and Landscapes -- NO SURVEY REQUIRED

*Kate Hubal*  
\_\_\_\_\_  
NCDOT Architectural Historian

*1/4/2018*  
\_\_\_\_\_  
Date



17-12-0038

**RECOMMENDATION**

New South Associates, Inc. conducted an intensive archaeological survey and evaluation for proposed replacement of Bridge No. 2 in Cherokee County on April 30 through May 2, 2018, under the direction of James Stewart and the supervision of Shawn Patch (see Figures 1 and 2). During the course of the survey, one previously identified archaeological site (31CE96) was re-identified and evaluated, and five additional sites (31CE853–857) were newly recorded and evaluated. All sites are recommended not eligible for the National Register of Historic Places (NRHP) under all four NRHP criteria. However, site 31CE854 extends outside the APE. This portion of the site was not thoroughly investigated or evaluated. Those sections of site 31CE854 outside the APE are unassessed. Finally, previously undocumented bridge abutments associated with an earlier bridge over the Slow Creek were identified, but determined not to merit recordation as a cultural resource. Based on these results, no further archaeological investigations are recommended for this project as currently defined. I concur with this recommendation as the proposed project will not impact significant archaeological resources. In the event that the APE changes, however, additional survey and/or site evaluation may be necessary. This includes the uninvestigated portions of site 31CE854.

**SUPPORT DOCUMENTATION**

See attached:  Map(s)     Previous Survey Info     Photos     Correspondence

Other: **Cultural Review**

Signed:



**C. Damon Jones**  
NCDOT ARCHAEOLOGIST

6/22/18

**Date**