



NO ARCHAEOLOGICAL SURVEY REQUIRED FORM

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



PROJECT INFORMATION

Project No: **Bridge 93** County: **Watauga**
 WBS No: **17BP.11.R.137** Document: **MCC**
 F.A. No: Funding: ☒ State ☐ Federal

Federal Permit Required? ☒ Yes ☐ No Permit Type: **NWP3/14**

Project Description: Replacement of Bridge No. 93 over Laurel Fork on SR1109 (Bairds Creek Road) in Watauga County, North Carolina. The archaeological Area of Potential Effects (APE) is centered on the bridge structure and measures 600ft in length (300ft from each bridge end-point) and 150ft in width (75ft from each side of the SR1109 center-line).

SUMMARY OF CULTURAL RESOURCES REVIEW

Brief description of review activities, results of review, and conclusions:

Permitting and funding information was reviewed for determining the level of archaeological input required by state and federal laws. Based on the submitted "request for cultural resources review" form, the project is state-funded with federal permit interaction. As such, Section 106 of the National Historic Preservation Act will apply. Next, construction design and other data was examined (when applicable) to define the character and extent of potential impacts to the ground surfaces embracing the project locale. The APE was designed to capture any federal permit areas.

Once an APE was outlined, a map review and site file search was conducted at the Office of State Archaeology (OSA) on Thursday, October 27, 2016. No previously documented archaeological sites are located in the APE or directly adjacent.

Examination of National Register of Historic Places (NRHP), State Study Listed (SL), Locally Designated (LD), Determined Eligible (DE), and Surveyed Site (SS) properties employing resources available on the NCSHPO website is crucial in establishing the location of noteworthy historic occupations related to a perspective construction impact area. A cross-check of these mapped resources concluded that no meaningful historic properties with possible contributing archaeological elements were located inward of the archaeological APE margins. In addition, historic maps of Watauga County were appraised to identify former structure locations, land use patterns, or other confirmation of historic occupation in the project vicinity. Archaeological/historical reference materials were inspected as well. In general, the cultural background review established that no NRHP listed properties, previously recorded archaeological sites, or cemeteries are located within the APE. Based on cultural-historical factors, the APE is considered to have a low potential for the documentation of archaeological resources.

Further, topographic, geologic, flood boundary, and NRCS soil survey maps (DeB) were referenced to evaluate pedological, geomorphological, hydrological, and other environmental determinants that may have resulted in past occupation at this location. Aerial and on-ground photographs (NCDOT Spatial Data Viewer) and the Google Street View map application (when amenable) were also examined/utilized for additional assessment of disturbances, both natural and human induced, which compromise the integrity of archaeological sites. Environmental/impact factors do not suggest a heightened potential for archaeological resource recovery.

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Brief Explanation of why the available information provides a reliable basis for reasonably predicting that there are no unidentified historic properties in the APE:

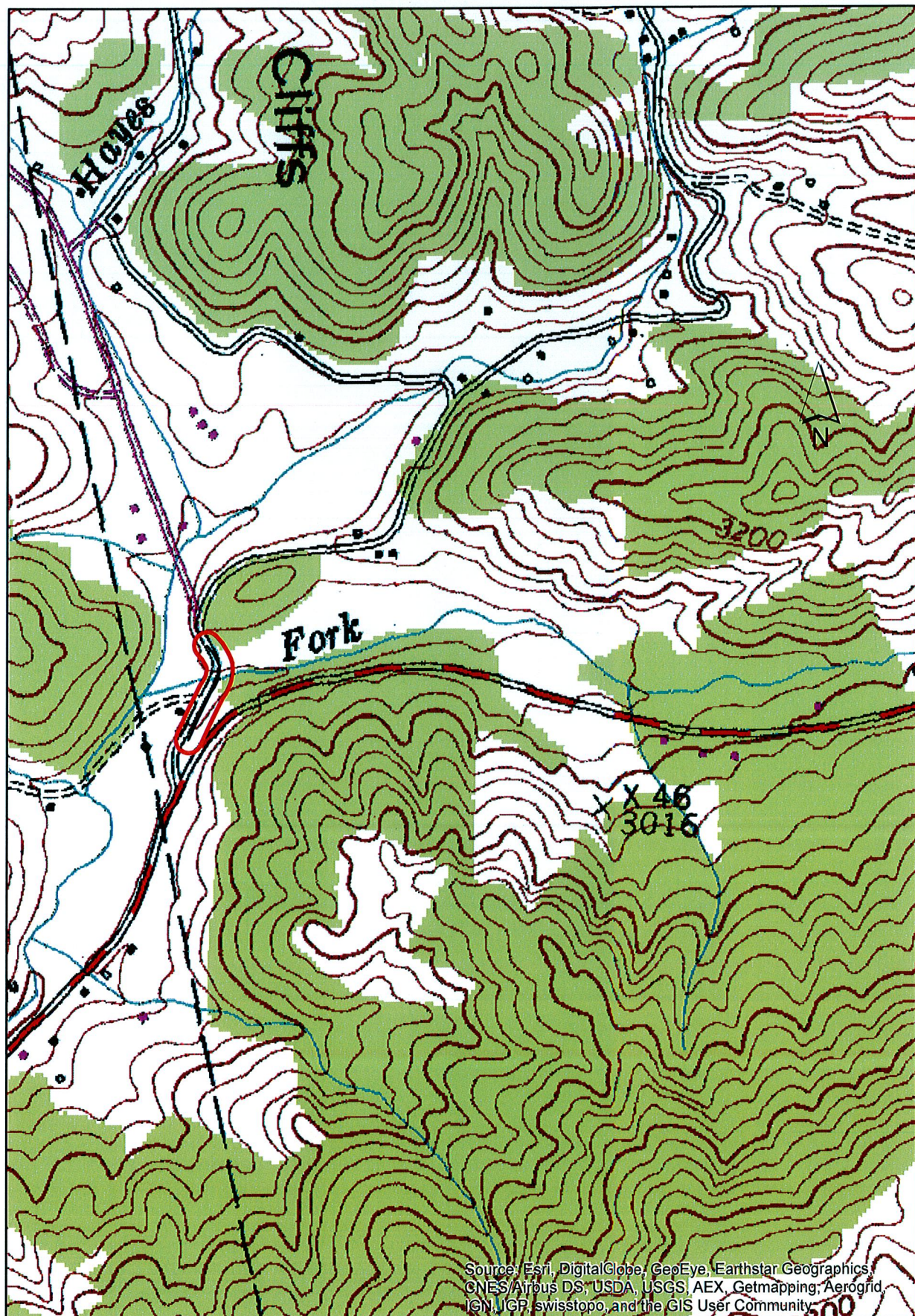
No documented cultural resources are contained within the current APE limits for the SR1109/Bridge 93 replacement project in Watauga County, North Carolina. The APE is characterized as residentially disturbed. In such contexts, intact NRHP archaeological sites are unlikely to be present or preserved. No further consultation is advocated. A finding of "no archaeological survey required" is considered appropriate.

SUPPORT DOCUMENTATION

See attached: ☒ Map(s) ☒ Previous Survey Info ☐ Photos ☐ Correspondence
☐ Photocopy of County Survey Notes Other:

FINDING BY NCDOT ARCHAEOLOGIST**NO ARCHAEOLOGY SURVEY REQUIRED**
NCDOT

10/31/2016



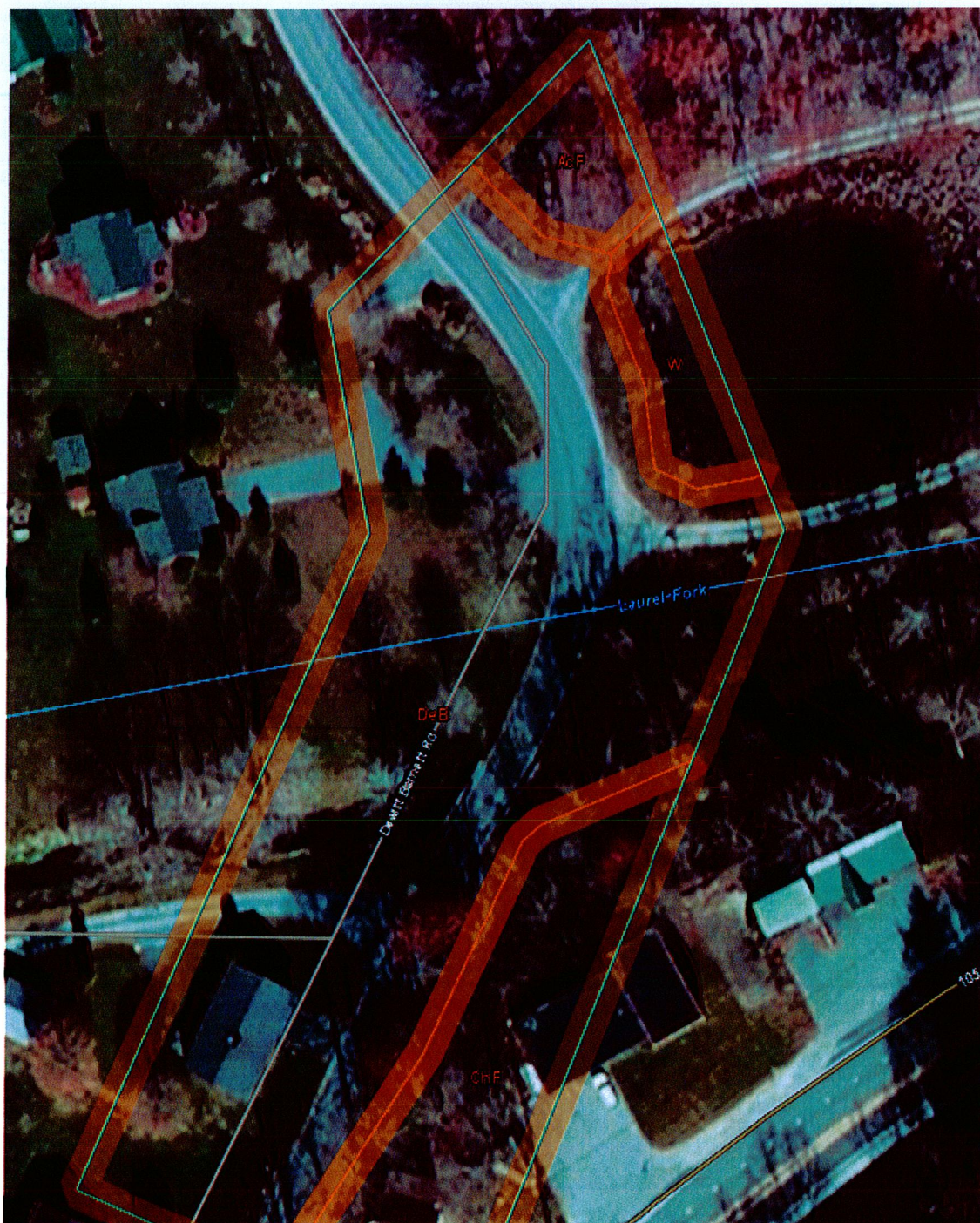
Boone topographic map illustrating the location and boundaries of the APE in Watauga County, North Carolina.



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics,
CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid,
IGN, IGP, swisstopo, and the GIS User Community

ARC-GIS aerial map depicting the location and boundaries of the APE in Watauga County, North Carolina.





DeB—Dellwood cobbly sandy loam, 1 to 5 percent slopes, occasionally flooded
Map Unit Setting

- *National map unit symbol:* ks74
- *Elevation:* 1,200 to 2,000 feet
- *Mean annual precipitation:* 45 to 70 inches
- *Mean annual air temperature:* 46 to 57 degrees F
- *Frost-free period:* 116 to 170 days
- *Farmland classification:* Farmland of local importance

Map Unit Composition

- *Dellwood, occasionally flooded, and similar soils: 90 percent*
- *Minor components: 5 percent*
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Dellwood, Occasionally Flooded**Setting**

- *Landform: Flood plains*
- *Down-slope shape: Linear*
- *Across-slope shape: Convex*
- *Parent material: Gravelly and cobbly sandy alluvium*

Typical profile

- *Ap - 0 to 8 inches: cobbly sandy loam*
- *A - 8 to 16 inches: extremely gravelly sand*
- *C - 16 to 80 inches: extremely gravelly coarse sand*

Properties and qualities

- *Slope: 1 to 5 percent*
- *Depth to restrictive feature: 8 to 20 inches to strongly contrasting textural stratification*
- *Natural drainage class: Moderately well drained*
- *Runoff class: Very low*
- *Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)*
- *Depth to water table: About 24 to 48 inches*
- *Frequency of flooding: Occasional*
- *Frequency of ponding: None*
- *Available water storage in profile: Very low (about 1.1 inches)*

Interpretive groups

- *Land capability classification (irrigated): None specified*
- *Land capability classification (nonirrigated): 3s*
- *Hydrologic Soil Group: B*
- *Hydric soil rating: No*

Minor Components**Nikwasi, undrained**

- *Percent of map unit: 5 percent*
- *Landform: Depressions on flood plains*
- *Down-slope shape: Concave, linear*
- *Across-slope shape: Concave*
- *Hydric soil rating: Yes*

