



April 25, 2017

Mr. Larry Absher
North Carolina Department of Transportation
Division 11 - Location & Surveys Office
P. O. Box 250
801 Statesville Road
North Wilkesboro, 28659

Description: TIP Number B-5177, Watauga County

Dear Larry:

Outlined below is a summary of the Survey that was conducted on the aforementioned Bridge Number:

- WBS Number 42548.1.2, Bridge 278 over Middle Fork Creek ON SR 1540 in Watauga County, North Carolina.
- Field Surveyed between the dates of 03/13/17 thru 04/20/17.
- Worked performed for Division 11 – Location & Surveys Office.
- The Localized coordinate system developed for this project is based on the State Plain Coordinates established by NCDOT for monument "B5177-2" with NAD 83/NA 2011 State Plain Grid Coordinates of Northing: 890821.7288 (ft), Easting: 1218854.9441 (ft), and having an elevation of 3321.9881 (ft). The average combined grid factor used on this project (ground to grid) is: 0.999847090. The Vertical Datum used is NAVD 88.
- The geographical coordinates for the center of the bridge are N 36°10'9.00"W 81°38'48.07"
- There are Utilities attached to the Bridge.
- CALYX performed the level B SUE on the project and utilities are as shown in the fs file.
- See Attachment "A" for pictures of Site.
- Right of Way was established using the Right of Way abstract information provided to CALYX by NCDOT.
- This is a two-lane bridge, two span with wood and asphalt deck. The bridge has wood head walls wing walls and interior bent. The beams are steel and there is guardrail.
- The parameters used to develop the .tin file are as follows: side dissolve option was used with a side length of 100 feet, the curve stroke tolerances were set at 0.15 and a minimum length of 30 feet.
- Deliverables are as listed below:
 - FS file to include control information normally shown on survey control sheet.
 - DTL File.
 - TIN File.
 - GPK File with ELN & BLN.
 - Baseline Text.

- Survey report in Word Document format.
- Survey Certification letter.
- Deed Index book in .pdf format.
- Propcon Data Base
- Pole Data File (.pdf file)

Attachment "A"

Looking East



Looking West



Looking up stream



Looking down stream



Please contact CALYX Engineers + Consultants, Inc. if you have any comments or questions.

Yours truly,

A handwritten signature in blue ink, appearing to read "J. David Lee, II".

Mr. J. David Lee, II, PLS
Principal
Charlotte Survey Manager

H:\Project\2017\2017014.06\SUR\B5177\Submit\d11bp-con-cal_b5177_Survey Report_170424.docx