



January 18, 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: Structure Number 04-0160, Caldwell County

Dear Larry:

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

- WBS Number 17bp.11.R.129, Bridge 13-0309 over Mulberry Creek on SR 1338 in Caldwell County, North Carolina.
- Field Surveyed between the dates of 01/10/17 thru 01/13/17.
- Worked performed for Division 9 – Location & Surveys Office.
- The Localized coordinate system developed for this project is based on the State Plain Coordinates established by NCDOT for monument "GPS-2" with NAD 83/NA 2011 State Plain Grid Coordinates of Northing: 801017.0570 (ft), Easting: 1209050.6602 (ft), and having an elevation of 1085.424 (ft). The average combined grid factor used on this project (ground to grid) is: 0.99989394. The Vertical Datum used is NAVD 88.
- The geographical coordinates for the center of the bridge are N 35°55'17.98"W 81°40'17.73"
- There are no Utilities attached to the Bridge.
- CALYX called in 811 tickets for this site (Ticket # A170030670-00A). Underground utilities were mark by 811 at the time of the Survey. Below are the listed utilities in the area along with 811's comments:

Member Code	Description	Response
ATT312*	ATT/D (DISTRIBUTION) PHONE – COPPER OR FIBER Marked	01/06/17 03:08 PM 20
ATV01*	CHARTER CABLE TV	01/06/17 03:08 PM 10
	No conflict, utility is outside of stated work area	
BRE01	BLUE RIDGE ELECTRIC MEMBERSHIP CORP. POWER	01/03/17 10:13 AM 10
	No conflict, utility is outside of stated work area	

DPC12*

DUKE ENERGY

POWER

01/06/17 03:08 PM 10

No conflict, utility is outside of stated work area

- 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, one span with wood and asphalt deck. The bridge has concrete head walls and wing walls. The beams are steel and the bridge has no 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 was 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

Attachment "A"

Looking up station



Looking Down Station



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

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