

PROJECT REPORT

September 26, 2018

TIP NO. 60-0207

LOCATING ENGINEER: R. D. Hensley, P.E.

PROJECT: 17BP.13.R.195

LS #: 13-18-047

DESCRIPTION: Bridge 207 over Grassy Creek on SR 1106 (Dale Rd)

LOCATION: Latitude=35°51'32"N, Longitude = 82°04'31"W (WGS 84)

BASELINES:

LINE –BL- 5+00

DESCRIPTION: Baseline (BL) starts at BL-1 Station 5+00.00 and runs northerly along SR 1106 (Dale Rd), terminating at GPS-4 at Station 17+83.75.

BASELINE GPK FILE: Submitted on L&S Server as: **600207_ls_gpk.gpk**

EXISTING ALIGNMENTS:

DESCRIPTION: Alignment (EL) starts at POT Station 10+00.00 and runs northerly along SR 1106 (Dale Rd) and terminates at POT Station 16+83.77.

ALIGNMENT GPK FILE: Submitted on L&S Server as: **600207_ls_gpk.gpk**

HORIZONTAL DATUM NAD 83/NA 2011

MONUMENT USED FOR PROJECT CONTROL;

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE NAD83/NA 2011 STATE PLANE COORDINATES FOR THE NCDOT GPS MONUMENT "GPS 3" WITH A NORTHING OF 782009.2680, EASTING OF 1088838.7120. THE AVERAGE COMBINED FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS 0.999795377. ALL LINEAR DISTANCES ARE LOCALIZED HORIZONTAL DISTANCES

VERTICAL DATUM NAVD 88

MONUMENT USED FOR PROJECT CONTROL

THE VERTICAL DATUM IS BASED ON NCDOT MONUMENT "GPS 3", ELEVATION 2839.79' (NAVD 88).

UTILITY DATA

There are 4 poles within the project limits of Bridge No. 207.

THE FOLLOWING UTILITIES WERE FOUND ON THE PROJECT

UTILITY

Power

Telephone

OWNER

Duke Energy

ATT

Submitted on L&S Server as: **600207_ncdot_fs.dgn**

U/G SUE UTILITY INFORMATION GATHERED BY: U/G SUE provided by Mattern and Craig. NC 811 Locates indicates no conflict for underground utilities, however a telephone pedestal was field-located near the bridge.

Submitted on L&S Server as: **600207_ncdot_fs.dgn**

PROPERTY DATA

Property owners have been contacted.

Property owner contact report has been transmitted as: **600207_ls_poc.mdb**

Property graphics have been transmitted as: **600207_ncdot_fs.dgn**

An electronic Deed Book has been transmitted as **600207_deedbook.pdf**

An electronic Plat Book has been transmitted as **600207_platbook.pdf**

HYDROGRAPHIC CROSS PIPES DATA

Submitted on L&S Server as: **600207_ncdot_fs.dgn**

DTM DATA

DTM's collected by PEF: Mattern and Craig.

DTM Stroking options are: Curve Stroke Tolerance = 0.15'

Minimum Linear Distance= 30.00'

Triangle options are: Dissolve option = Side

Side length = 60.00'

Submitted on L&S Server as: **600207_ls_dtm.dgn and 600207_ls_tin.tin**

EXISTING RIGHT OF WAY

A Right of Way Abstract was provided by the Division 13 R/W office. Right of Way for SR 1106 (Dale Rd) is claimed 25', measured 12.5' either side of existing centerline. For Bridge No. 207, R/W is claimed 43', measured 22' on the West side, and 21' on the East side of existing centerline of bridge. All Rights of Way have been noted in **600207_ls_RW_Abstract.pdf**.

PROJECT COMMENTS:

Private Engineering Firm: Mattern & Craig collected all survey data, unless otherwise indicated.

Overview:

Bridge 207 is a two-lane bridge with wood deck on wood beams. The bridge has wood headwalls and guardrails.

Cultural:

Bridge 207 is located on SR 1106 (Dale Rd) in a rural residential area, over Grassy Creek. (Photos attached)

Bridge Photos:

SR 1106 Looking northerly



SR 1106 Looking southerly



On Bridge 207 looking upstream



On Bridge 207 looking downstream



Under Bridge 207 looking upstream



Under Bridge 207 looking downstream

