


# SURVEY CONTROL SHEET

## BASELINE AND BENCHMARKS

|   |                      |
|---|----------------------|
| PROJECT REFERENCE NO.<br>B-5766   | SHEET NO.<br>RW02C-2 |
| <b>Location and Surveys</b>   |                      |
|  |                      |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED                    |                      |

I, Michael L. Motsinger, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**  
 Type of GPS field procedure: RTN  
 Dates of survey: March 7, 2016  
 Datum/Epoch: NAD 1983/2011  
 Published/Fixed-control use: [Project Control if applicable, N/A for RTN]  
 Localized around: B5766-2  
 Northing: 969517.1351  
 Easting: 1646981.2315  
 Combined grid factor:  
 Geoid model: 0.9999522332  
 Units: English

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from September 2016 to October 2016, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 23 rd day of September, 2024.

DocuSigned by:  
  
 F0B6F670E23C40E  
 Professional Land Surveyor L-3877



| BL | POINT | DESC.   | NORTH       | EAST         | ELEVATION |
|----|-------|---------|-------------|--------------|-----------|
| 3  |       | BL -3   | 969462.4351 | 1646323.6125 | 721.40    |
| 2  |       | B5766-2 | 969517.1351 | 1646981.2315 | 705.77    |
| 1  |       | B5766-1 | 969669.3327 | 1647498.2763 | 709.74    |
| 4  |       | BL -4   | 969937.4379 | 1647737.6103 | 721.55    |

\*\*\*\*\*  
 BM1 ELEVATION = 696.19  
 N 969981 E 1647834  
 R/R SPIKE SET IN ROOT OF 40' POPLAR  
 \*\*\*\*\*  
 BM2 ELEVATION = 693.11  
 N 969728 E 1647164  
 R/R SPIKE SET IN ROOT OF 15' MAPLE  
 \*\*\*\*\*

REVISIONS

# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

| EL    |            |             |                 |        |                 |             |        |        |        |
|-------|------------|-------------|-----------------|--------|-----------------|-------------|--------|--------|--------|
| POINT | N          | E           | BEARING         | DIST   | DELTA           | D           | L      | T      | R      |
| POT   | 969433.929 | 1646298.916 |                 |        |                 |             |        |        |        |
| LINE  |            |             | N 81°49'08.2" E | 851.18 |                 |             |        |        |        |
| PC    | 969555.054 | 1647141.433 |                 |        |                 |             |        |        |        |
| CURVE |            |             | N 71°28'25.9" E | 323.24 | 20°41'24.5"(LT) | 06°21'58.3" | 325.00 | 164.29 | 900.00 |
| PCC   | 969657.758 | 1647447.919 |                 |        |                 |             |        |        |        |
| CURVE |            |             | N 45°35'45.7" E | 356.16 | 31°03'55.9"(LT) | 08°36'57.3" | 360.56 | 184.83 | 665.00 |
| PT    | 969906.968 | 1647702.368 |                 |        |                 |             |        |        |        |
| LINE  |            |             | N 30°03'47.8" E | 45.09  |                 |             |        |        |        |
| POT   | 969945.993 | 1647724.957 |                 |        |                 |             |        |        |        |

| EY1   |            |             |                 |        |                 |             |        |        |        |
|-------|------------|-------------|-----------------|--------|-----------------|-------------|--------|--------|--------|
| POINT | N          | E           | BEARING         | DIST   | DELTA           | D           | L      | T      | R      |
| POT   | 969717.092 | 1646158.920 |                 |        |                 |             |        |        |        |
| LINE  |            |             | S 32°30'21.5" E | 166.74 |                 |             |        |        |        |
| PC    | 969576.478 | 1646248.521 |                 |        |                 |             |        |        |        |
| CURVE |            |             | S 25°37'49.8" E | 59.86  | 13°45'03.6"(RT) | 22°55'05.9" | 60.00  | 30.14  | 250.00 |
| PCC   | 969522.512 | 1646274.413 |                 |        |                 |             |        |        |        |
| CURVE |            |             | S 03°42'43.6" E | 415.27 | 30°05'08.9"(RT) | 07°09'43.1" | 420.08 | 215.00 | 800.00 |
| PT    | 969108.116 | 1646301.299 |                 |        |                 |             |        |        |        |

| EY2   |            |             |                 |       |                 |             |       |       |        |
|-------|------------|-------------|-----------------|-------|-----------------|-------------|-------|-------|--------|
| POINT | N          | E           | BEARING         | DIST  | DELTA           | D           | L     | T     | R      |
| POT   | 969635.962 | 1646418.807 |                 |       |                 |             |       |       |        |
| LINE  |            |             | S 44°25'01.0" W | 70.68 |                 |             |       |       |        |
| PC    | 969585.480 | 1646369.343 |                 |       |                 |             |       |       |        |
| CURVE |            |             | S 47°24'05.2" W | 60.92 | 05°58'08.5"(RT) | 09°47'38.9" | 60.94 | 30.50 | 585.00 |
| PT    | 969544.248 | 1646324.501 |                 |       |                 |             |       |       |        |
| LINE  |            |             | S 50°23'09.5" W | 58.41 |                 |             |       |       |        |
| POT   | 969507.004 | 1646279.503 |                 |       |                 |             |       |       |        |

# PROPOSED ALIGNMENT

| L    |          |             |              |
|------|----------|-------------|--------------|
| TYPE | STATION  | NORTH       | EAST         |
| POT  | 10+00.00 | 969405.9297 | 1646304.4328 |
| PC   | 16+95.76 | 969504.9370 | 1646993.1086 |
| PCC  | 21+80.36 | 969658.8052 | 1647449.8105 |
| PT   | 25+38.76 | 969906.9679 | 1647702.3683 |
| POT  | 25+83.85 | 969945.9934 | 1647724.9572 |

| Y    |           |             |              |
|------|-----------|-------------|--------------|
| TYPE | STATION   | NORTH       | EAST         |
| PC   | 100+00.00 | 969108.1156 | 1646301.2987 |
| PCC  | 104+20.08 | 969522.5118 | 1646274.4130 |
| PT   | 104+80.08 | 969576.4782 | 1646248.5213 |
| POT  | 106+46.81 | 969717.0920 | 1646158.9198 |

**NOTES:**

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.