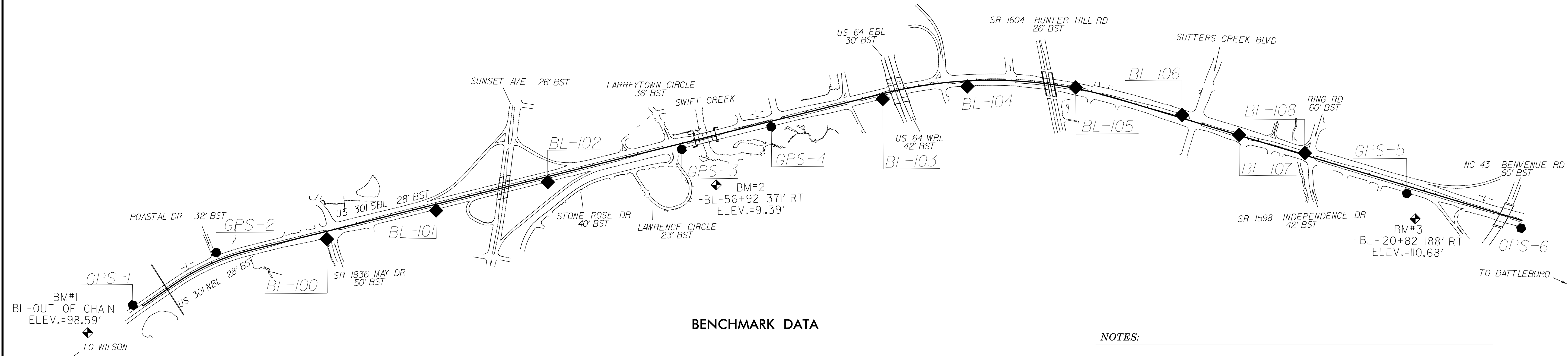
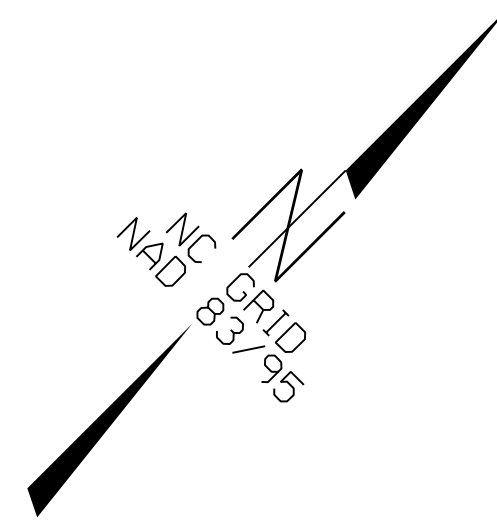


# SURVEY CONTROL SHEET U-3330

## BASELINE DATA

| BL  | POINT | DESC.  | NORTH       | EAST         | ELEVATION | L STATION              | OFFSET   |
|-----|-------|--------|-------------|--------------|-----------|------------------------|----------|
| 1   |       | GPS-1  | 802499.2110 | 2346555.3720 | 103.12    | OUTSIDE PROJECT LIMITS |          |
| 2   |       | GPS-2  | 803330.1810 | 2346743.8720 | 104.31    | 17+68.96               | 71.31 LT |
| 100 |       | BL-100 | 804088.9120 | 2347337.5150 | 97.17     | 27+16.32               | 64.98 RT |
| 101 |       | BL-101 | 804930.7050 | 2347829.7330 | 100.15    | 36+91.37               | 52.06 RT |
| 102 |       | BL-102 | 805786.8440 | 2348338.3620 | 97.35     | 46+87.18               | 45.79 RT |
| 3   |       | GPS-3  | 806804.9440 | 2348956.0730 | 98.21     | 58+78.01               | 49.34 RT |
| 4   |       | GPS-4  | 807490.4650 | 2349365.2060 | 96.77     | 66+76.33               | 45.92 RT |
| 103 |       | BL-103 | 808340.3880 | 2349876.5420 | 94.16     | 76+68.30               | 45.15 RT |
| 104 |       | BL-104 | 808934.2300 | 2350315.5330 | 97.91     | 84+16.60               | 47.68 RT |
| 105 |       | BL-105 | 809593.4750 | 2350988.0660 | 111.58    | 93+63.96               | 8.60 LT  |
| 106 |       | BL-106 | 810073.6890 | 2351801.3610 | 111.75    | 103+07.46              | 27.36 LT |
| 107 |       | BL-107 | 810299.8720 | 2352270.9640 | 101.74    | 108+28.18              | 4.04 LT  |
| 108 |       | BL-108 | 810590.9570 | 2352783.7120 | 94.08     | 114+17.64              | 17.43 LT |
| 5   |       | GPS-5  | 810967.5930 | 2353653.2810 | 104.23    | 123+61.86              | 62.90 RT |
| 6   |       | GPS-6  | 811457.2222 | 2354564.4509 | 120.58    | OUTSIDE PROJECT LIMITS |          |



## BENCHMARK DATA

```

*****
BM#1      ELEVATION = 98.59
N 802055      E 2346449
L STATION 10+00.00
S 19°02'47.12" W DIST 532.02
RR SPIKE IN 12" TWIN PINE
*****
BM#2      ELEVATION = 91.39
N 806799      E 2349385
L STATION 60+94.00 420 RIGHT
RR SPIKE IN 24" OAK
*****
BM#3      ELEVATION = 110.68
N 810865      E 2353858
L STATION 124+93.00 251 RIGHT
RR SPIKE IN 24" OAK
*****
    
```

## NOTES:

- THE SITE CALIBRATION SHOWN IS BASED UPON A NETWORK TIED TO THE HARN (HIGH ACCURACY REFERENCE NETWORK) NAD 83/95 ADJUSTMENT. THIS CALIBRATION WILL ALLOW THE END USER TO WORK WITHIN THE SAME COORDINATE SYSTEM WHEN USING RTK (REAL TIME KINEMATIC) GPS AND A LOCAL BASE STATION. IF ANOTHER SYSTEM SUCH AS VRS (VIRTUAL REFERENCE STATION) IS USED, ADDITIONAL FIELD TIES MAY BE NEEDED TO REDUCE POSSIBLE ERRORS, OR BIASES.
  - THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:  
[HTTPS://CONNECT.NCDOT.GOV/RESOURCES/LOCATION/](https://connect.ncdot.gov/resources/location/)  
 THE FILES TO BE FOUND ARE AS FOLLOWS:  
 U3330\_LS\_GPSCALIB.HTML  
 U3330\_LS\_WGS84.TXT  
 U3330\_LS\_LOCAL.TXT  
 U3330\_LS\_CONTROL.TXT  
 THE WGS84 AND LOCAL FILES ARE COMMA DELIMITED AND CAN BE USED TO REPRODUCE THE SITE CALIBRATION FOR THE END USER'S GPS EQUIPMENT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.  
 PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.  
 NETWORK ESTABLISHED FROM EXISTING HARN MONUMENTATION  
 SEE GPS CALIBRATION SHEET FOR HORIZONTAL AND VERTICAL COORDINATE VALUES.

## DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "U3330-GPS-3"  
 WITH NAD 83/95 STATE PLANE GRID COORDINATES OF  
 NORTHING: 806804.945(ft) EASTING: 2348956.073(ft)  
 ELEVATION: 98.21(ft)  
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9999497600  
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "U3330-GPS-3" TO L- STATION 10+00.00 IS  
 S 28° 46' 58.9" W 4845.46'  
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES  
 VERTICAL DATUM USED IS NAVD 88

NOTE: DRAWING NOT TO SCALE