

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

| | |
|---|----------------------|
| PROJECT REFERENCE NO. W03291 (AREA01) | SHEET NO. RW02C-1 |
| Location and Surveys | |
|  TGS ENGINEERS 201 WEST MARION STREET SUITE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275 | |
| PROJECT SURVEYOR | |
|  | |
| Signed by:  EBO36F11473E475... 12/15/2025 | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

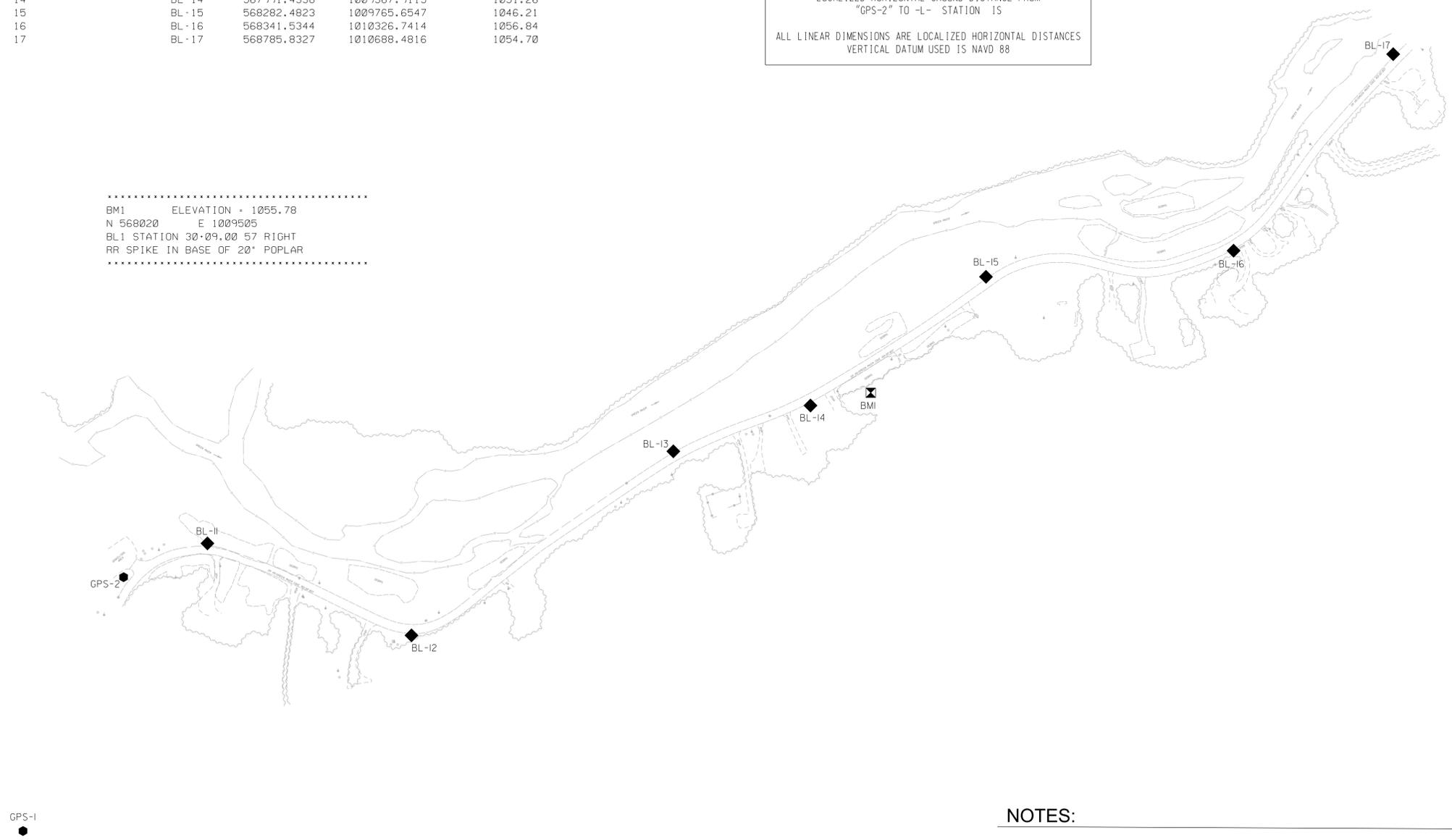


DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS-2"
 WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 567603.4421(ft) EASTING: 1007811.3508(ft) ELEVATION: 1067.7185(ft)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999826341
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS-2" TO -L- STATION IS
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

| BL1 | POINT | DESC. | NORTH | EAST | ELEVATION |
|-----|-------|-------|-------------|--------------|-----------|
| 101 | | GPS-1 | 567029.4880 | 1007583.3461 | 1111.61 |
| 102 | | GPS-2 | 567603.4421 | 1007811.3508 | 1067.72 |
| 11 | | BL-11 | 567679.7744 | 1008001.2291 | 1056.61 |
| 12 | | BL-12 | 567471.8022 | 1008463.6810 | 1060.26 |
| 13 | | BL-13 | 567887.9604 | 1009057.0894 | 1048.98 |
| 14 | | BL-14 | 567991.4338 | 1009367.9115 | 1051.26 |
| 15 | | BL-15 | 568282.4823 | 1009765.6547 | 1046.21 |
| 16 | | BL-16 | 568341.5344 | 1010326.7414 | 1056.84 |
| 17 | | BL-17 | 568785.8327 | 1010688.4816 | 1054.70 |

.....
 BM1 ELEVATION = 1055.78
 N 568020 E 1009505
 BL1 STATION 30+09.00 57 RIGHT
 RR SPIKE IN BASE OF 20" POPLAR



I, Matthew T. Cornwell, 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 2025
 Datum/Epoch: NAD83/2011
 Published/Fixed-control use: N/A
 Localized around: GPS-2
 Northing: 567603.4421
 Easting: 1007811.3508
 Combined grid factor: 0.999826341
 Geoid model: GEOID18
 Units: US Survey Feet

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 March 2025, 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 12/15/2025
 Signed by:

 EBO36F11473E475...
 Professional Land Surveyor L-4775

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.

REVISIONS

I5-DEC-2025 11:09
 S:\surveyors\projects\ncdot\SR-1151 (Green River Cove Rd.)\RIVER SECTION CONTROL SHEETS\grvr-1s-r-w02c-1.dgn
 mcornwell AT MTCORNWELLTAP.PDF

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

| | |
|---|----------------------|
| PROJECT REFERENCE NO. W03291 (AREA02) | SHEET NO. RW02C-2 |
| Location and Surveys | |
|  TGS ENGINEERS 201 WEST MARION STREET SUITE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275 | |
| PROJECT SURVEYOR | |
| Signed by:  Matthew Cornwell <small>EB036P11473E475...</small> | |
|  | |
| 12/15/2025 | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

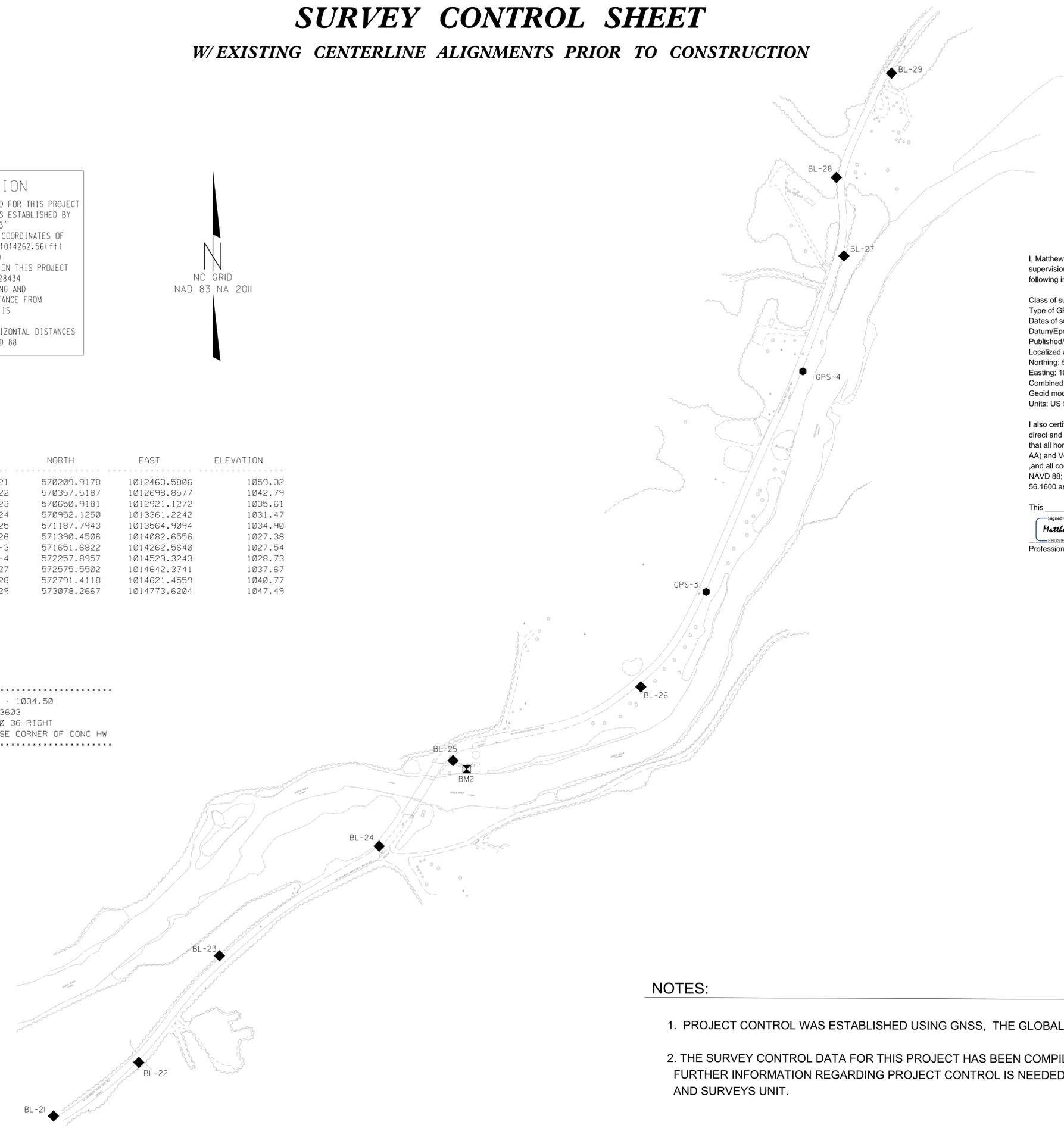
DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS-3"
 WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF
 NORTHING: 571651.68(±) EASTING: 1014262.56(±)
 ELEVATION: 1027.54(±)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999828434
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS-3" TO -L- STATION IS
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88



| BL2 | POINT | DESC. | NORTH | EAST | ELEVATION |
|-----|-------|-------|-------------|--------------|-----------|
| | 21 | BL-21 | 570209.9178 | 1012463.5806 | 1059.32 |
| | 22 | BL-22 | 570357.5187 | 1012698.8577 | 1042.79 |
| | 23 | BL-23 | 570650.9181 | 1012921.1272 | 1035.61 |
| | 24 | BL-24 | 570952.1250 | 1013361.2242 | 1031.47 |
| | 25 | BL-25 | 571187.7943 | 1013564.9094 | 1034.90 |
| | 26 | BL-26 | 571390.4506 | 1014082.6556 | 1027.38 |
| | 103 | GPS-3 | 571651.6822 | 1014262.5640 | 1027.54 |
| | 104 | GPS-4 | 572257.8957 | 1014529.3243 | 1028.73 |
| | 27 | BL-27 | 572575.5502 | 1014642.3741 | 1037.67 |
| | 28 | BL-28 | 572791.4118 | 1014621.4559 | 1040.77 |
| | 29 | BL-29 | 573078.2667 | 1014773.6204 | 1047.49 |

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 BM2 ELEVATION = 1034.50
 N 571164 E 1013603
 BL2 STATION 20+17.00 36 RIGHT
 CHISELED SQUARE IN SE CORNER OF CONC HW



I, Matthew T. Cornwell, 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: February 2025
 Datum/Epoch: NAD83/2011
 Published/Fixed-control use: N/A
 Localized around: GPS-3
 Northing: 571651.6822
 Easting: 1014262.5640
 Combined grid factor: 0.999828434
 Geoid model: GEOID18
 Units: US Survey Feet

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 February 2025, 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 12/15/2025

Signed by:

Matthew Cornwell
EB036P11473E475...
 Professional Land Surveyor L-4775

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.

REVISIONS

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

| | |
|---|----------------------|
| PROJECT REFERENCE NO. W03291 (AREA03) | SHEET NO. RW02C-3 |
| Location and Surveys | |
|  TGS ENGINEERS 201 WEST MARION STREET SUITE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275 | |
| PROJECT SURVEYOR | |
| Signed by:  Matthew Cornwell <small>EB028P11473E475</small> | |
|  | |
| 12/15/2025 | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |



| BL3 | POINT | DESC. | NORTH | EAST | ELEVATION |
|-----|-------|-------|-------------|--------------|-----------|
| | 105 | GPS-5 | 576191.3417 | 1017984.4088 | 1012.23 |
| | 106 | GPS-6 | 576388.0863 | 1018459.0939 | 1009.21 |
| | 31 | BL-31 | 576645.3900 | 1018874.5539 | 1012.84 |

.....
 BM3 ELEVATION = 1006.85
 N 576296 E 1018368
 BL3 STATION 8+95.00 51 RIGHT
 RR SPIKE IN BASE OF 50" RED OAK



I, Matthew T. Cornwell, 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 2025
 Datum/Epoch: NAD83/2011
 Published/Fixed-control use: N/A
 Localized around: GPS-6
 Northing: 576388.0863
 Easting: 1018459.0939
 Combined grid factor: 0.9998294402
 Geoid model: GEOID18
 Units: US Survey Feet

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 March 2025, 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 12/15/2025
 Signed by:

Matthew Cornwell
EB028P11473E475
 Professional Land Surveyor L-4775

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS-6"
 WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF
 NORTHING: 576388.086(±) EASTING: 1018459.094(±)
 ELEVATION: 1009.21(±)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9998294402
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS-6" TO -L- STATION IS

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88

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.

REVISIONS

REVISIONS

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

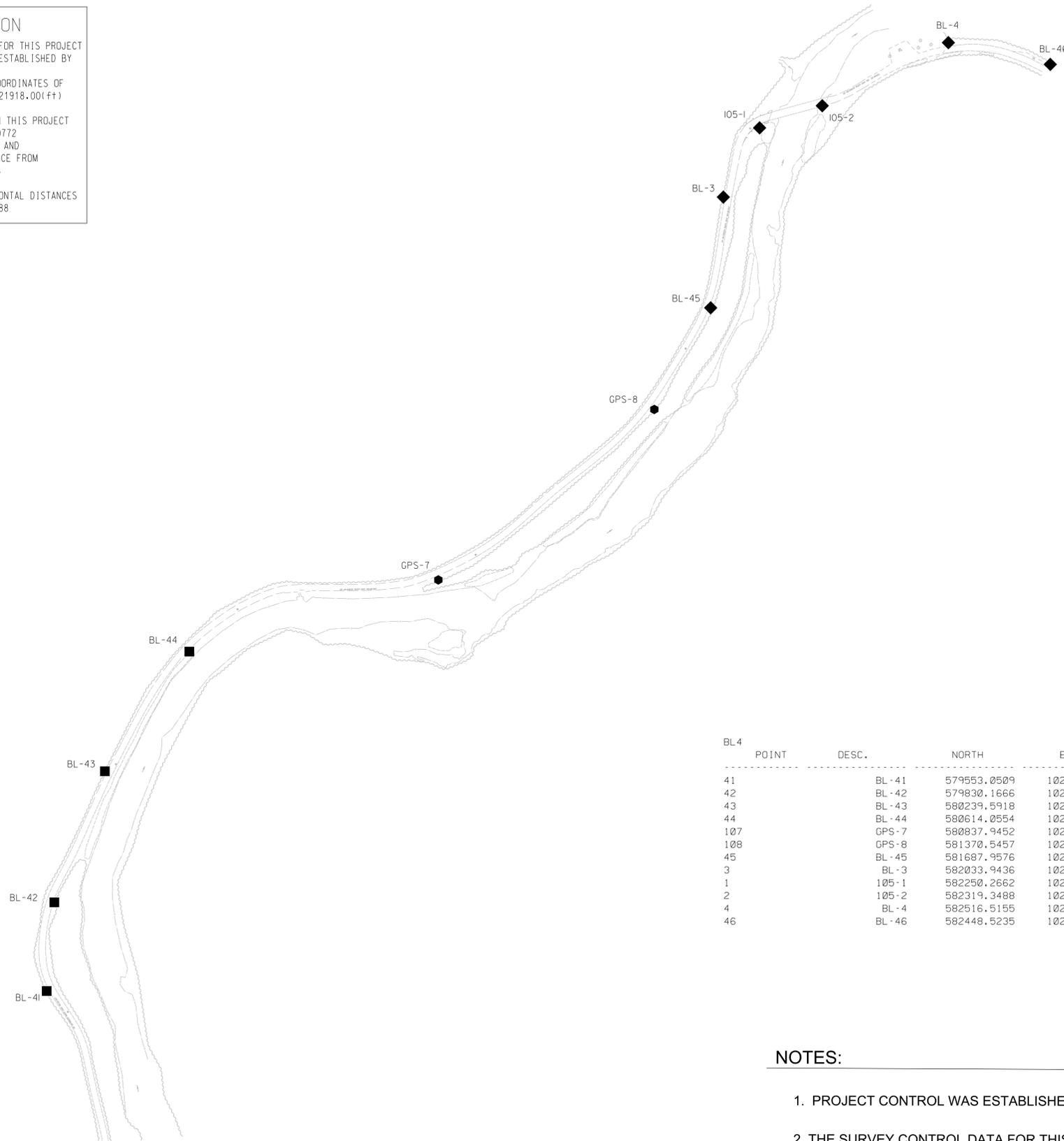
DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS-7"

WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF
 NORTHING: 580837.94(±) EASTING: 1021918.00(±)
 ELEVATION: 984.88(±)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999830772
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS-7" TO -L- STATION IS

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88



| | |
|---|----------------------|
| PROJECT REFERENCE NO. W03291 (AREA04) | SHEET NO. RW02C-4 |
| Location and Surveys | |
|  TGS ENGINEERS 201 WEST MARION STREET SUITE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275 | |
| PROJECT SURVEYOR | |
|  Signed by: Matthew Cornwell <small>EB020911473E47E...</small> | |
|  | |
| 12/15/2025 | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

I, Matthew T. Cornwell, 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 2025
 Datum/Epoch: NAD83/2011
 Published/Fixed-control use: N/A
 Localized around: GPS-7
 Northing: 580837.9452
 Easting: 1021918.0060
 Combined grid factor: 0.999830772
 Geoid model: GEOID18
 Units: US Survey Feet

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 March 2025, 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 12/15/2025

Signed by: 
 Professional Land Surveyor L-4775

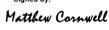
| BL 4 | | | | | |
|-------|---------|-------------|--------------|-----------|--|
| POINT | DESC. | NORTH | EAST | ELEVATION | |
| 41 | BL - 41 | 579553.0509 | 1020691.3280 | 1023.75 | |
| 42 | BL - 42 | 579830.1666 | 1020715.0034 | 1011.38 | |
| 43 | BL - 43 | 580239.5918 | 1020873.7743 | 985.23 | |
| 44 | BL - 44 | 580614.0554 | 1021137.9425 | 980.90 | |
| 107 | GPS-7 | 580837.9452 | 1021918.0060 | 984.88 | |
| 108 | GPS-8 | 581370.5457 | 1022594.4693 | 975.71 | |
| 45 | BL - 45 | 581687.9576 | 1022771.0513 | 972.63 | |
| 3 | BL - 3 | 582033.9436 | 1022810.6935 | 969.68 | |
| 1 | 105-1 | 582250.2662 | 1022924.2384 | 968.87 | |
| 2 | 105-2 | 582319.3488 | 1023120.5043 | 971.14 | |
| 4 | BL - 4 | 582516.5155 | 1023515.5526 | 968.67 | |
| 46 | BL - 46 | 582448.5235 | 1023834.7470 | 966.29 | |

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.

SURVEY CONTROL SHEET

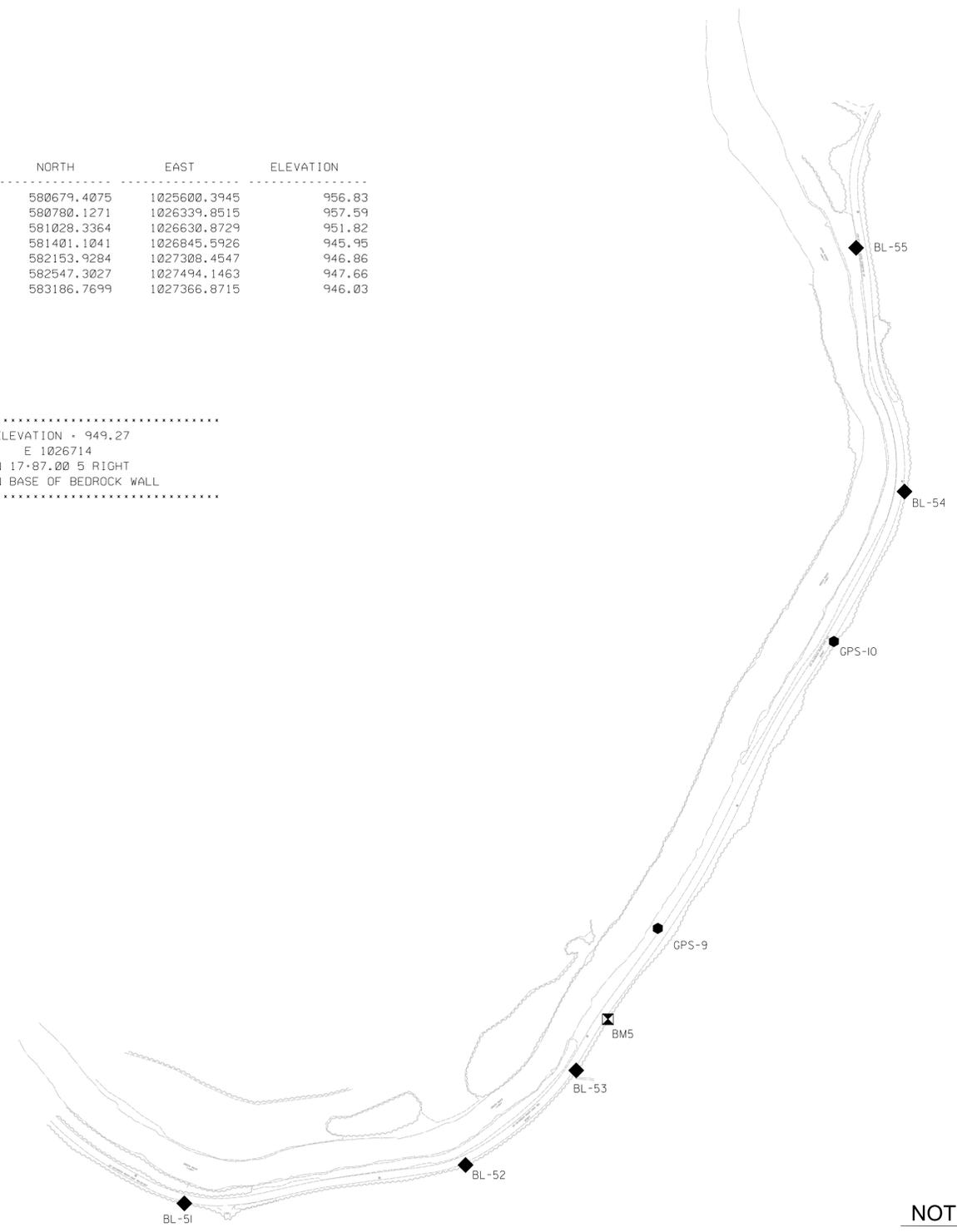
W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

| | |
|---|----------------------|
| PROJECT REFERENCE NO. W03291 (AREA05) | SHEET NO. RW02C-5 |
| Location and Surveys | |
|  TGS ENGINEERS 201 WEST MARION STREET SUITE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275 | |
| PROJECT SURVEYOR | |
| Signed by:  EBO39F1473E475 | |
|  | |
| 12/15/2025 | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |



| BL5 | POINT | DESC. | NORTH | EAST | ELEVATION |
|-----|--------|-------|-------------|--------------|-----------|
| 51 | BL-51 | | 580679.4075 | 1025600.3945 | 956.83 |
| 52 | BL-52 | | 580780.1271 | 1026339.8515 | 957.59 |
| 53 | BL-53 | | 581028.3364 | 1026630.8729 | 951.82 |
| 109 | GPS-9 | | 581401.1041 | 1026845.5926 | 945.95 |
| 110 | GPS-10 | | 582153.9284 | 1027308.4547 | 946.86 |
| 54 | BL-54 | | 582547.3027 | 1027494.1463 | 947.66 |
| 55 | BL-55 | | 583186.7699 | 1027366.8715 | 946.03 |

.....
 BM5 ELEVATION = 949.27
 N 581163 E 1026714
 BL5 STATION 17+87.00 5 RIGHT
 MAG NAIL IN BASE OF BEDROCK WALL



I, Matthew T. Cornwell, 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: May 2025
 Datum/Epoch: NAD83/2011
 Published/Fixed-control use: N/A
 Localized around: GPS-9
 Northing: 581401.1041
 Easting: 1026845.5926
 Combined grid factor: 0.999832674
 Geoid model: GEOID18
 Units: US Survey Feet

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 May 2025, 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 12/15/2025
 Signed by:

 EBO39F1473E475
 Professional Land Surveyor L-4775

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS-9" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 581401.10(±) EASTING: 1026845.59(±) ELEVATION: 945.95(±) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999832674 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS-9" TO -L- STATION IS

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88

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.

REVISIONS

I5-DEC-2025 11:16
 S:\surveyors\projects\ncdot\SR-1151 (Green River Cove Rd)\RIVER SECTION CONTROL SHEETS\grvr-1s-r-w02c-5.dgn
 mcornwell AT MTCORNWELLTAP.TOP