I, Mark A. Parris, 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: 1/15/18 to 1/23/18 Datum/Epoch:NAD83/NA2011 Published/Fixed-control use: N/A Localized around: I-40-G108 Northing:679682.775 Easting:856703.539 Combined grid factor:0.999764259 Geoid model:G12BUS Units:US SURVEY FT.

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 1/05/22 to 1/12/22, 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 28th day of March, 2022.

DocuSigned by: MakParris

Professional Land Surveyor L-4529

BL-17

22-MAR-2022 09:35 V:\NC\Survey\032112-34 D jcgordon AT WKS-1903P



SEE SHEETS RW02C-6 THRU RW02C-7 FOR FURTHER ALIGNMENT DETAILS

NOTES:

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.

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.



I, Mark A. Parris, 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: 1/15/18 to 1/23/18 Datum/Epoch:NAD83/NA2011 Published/Fixed-control use: N/A Localized around: I-40-G108 Northing:679682.775 Easting:856703.539 Combined grid factor:0.999764259 Geoid model:G12BUS Units:US SURVEY FT. 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 1/05/22 to 1/12/22, 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 28th day of March, 2022. Mak Parris Professional Land Surveyor L-4529 BM-16 S -2022 09:38 Survey 032112-34 D AT WKS-1903P ZZ-MA V:\NC



SEE SHEETS RW02C-6 THRU RW02C-7 FOR FURTHER ALIGNMENT DETAILS

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SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



NOTES:

AND SURVEYS UNIT.



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This 28th day of March, 2022.

MakParris F1570CB85C7248A...

Professional Land Surveyor L-4529



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| I, Mark A. Parris, 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: | 6/2/99 | | |
|---|--|-----------|--|
| Type of GPS field procedure: RTN Dates of survey: 1/15/18 to 1/23/18 Datum/Epoch:NAD83/NA2011 Published/Fixed-control use: N/A Localized around: I-40-G108 Northing:679682.775 Easting:856703.539 Combined grid factor:0.999764259 Geoid model:G12BUS Units:US SURVEY FT. 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 1/05/22 to 1/12/22, 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 28th day of March, 2022. Frofessional Land Surveyor L-4529 | | | |
| | | REVISIONS | |
| SEE SHEETS RW02C-6 | -vey\To Send\HB-ØØØ2\HB-ØØØ2_ls_RWØ2C-5.dgn | | |
| FOR FURT ALIGNMENT I | 22-MAR-2022 09:39 /:\NC\Survey\Ø32112-34 D14hb CON-SUE\Sur jcgordon AT WKS-19Ø3PY-46 | | |

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



DETAILS

NOTES:

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.



1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

ONTROL SHEET

GNMENTS PRIOR TO CONSTRUCTION

| BM11 ELEVATION = 2691.47 N 679128 E 859133 SPIKE NAIL SET IN 14" PINE |
|--|
| BM12 ELEVATION = 2670.66 N 679080 E 860180 PK NAIL SET IN R/W FENCE |
| BM13 ELEVATION = 2632.73 N 678927 E 861070 PK NAIL SET IN BRIDGE WW |
| BM14 ELEVATION = 2676.39 N 678762 E 862422 SPIKE NAIL SET IN 12" HICKORY |
| BM15 ELEVATION = 2636.87 N 679382 E 860891 SPIKE NAIL SET IN 30" MAPLE CLUMP |
| BM16 ELEVATION = 2646.54 N 679258 E 861623 IRON ROD SET AT EP |
| BM17 ELEVATION = 2707.11 N 678901 E 862786 SPIKE NAIL SET IN 10" POPLAR |

NOTES:

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This 28th day of March, 2022.

— DocuSigned by Mark Parris Professional Land Surveyor L-4529

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| EL | | | | |
|--------|------------|------------|-----------------|----|
| POINT | N | E | BEARING | Ľ |
| PC | 679235.037 | 859149.787 | | |
| CURVE | | | S 82°14′Ø8.5" E | 73 |
| CS | 679129.357 | 859924.865 | | |
| SPIRAL | | | N 87°15′02.1″E | 3 |
| ST | 679148.540 | 86Ø324.318 | | |
| LINE | | | N 85°55′Ø2.3" E | 10 |
| POT | 679158.383 | 86Ø462.227 | | |
| EY1 | 1 | | | |
| POINT | N N | E | BEARING | |
| POT | 679778.261 | 860815.207 | | |
| LINE | | | S ØØ°51′12.4" W | 2 |
| | 679540 689 | 860811 668 | | |

| POINT | N | E | BEARING | DIST | DELTA | D | L | Т | R | DELTA S | Ls | LT | ST | |
|--------|------------|------------|-----------------|--------|-----------------|-------------|--------|--------|--------|-----------------|--------|--------|-------|--|
| POT | 679778.261 | 860815.207 | | | | | | | | | | | | |
| LINE | | | S ØØ°51′12.4"W | 237.60 | | | | | | | | | | |
| TS | 679540.689 | 86Ø811.668 | | | | | | | | | | | | |
| SPIRAL | | | S Ø2°28′44.5" E | 199.73 | | | | | | 10°00′00.0"(LT) | 200.00 | 133.55 | 66.86 | |
| SC | 679341.147 | 860820.307 | | | | | | | | | | | | |
| CURVE | | | S 23°51′17.3" E | 290.95 | 29°24′59.5"(LT) | 10°00′00.0" | 294.17 | 150.40 | 572.96 | | | | | |
| CS | 679075.056 | 860937.971 | | | | | | | | | | | | |
| SPIRAL | | | S 45°13′50.2" E | 199.73 | | | | | | 10°00′00.0"(LT) | 200.00 | 133.55 | 66.86 | |
| ST | 678934.396 | 861079.768 | | | | | | | | | | | | |
| LINE | | | S 48°33′47.1" E | 318.24 | | | | | | | | | | |
| POT | 678723.788 | 861318.346 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

| EY2 | | | | | | | | | |
|-------|------------|------------|-----------------|--------|-----------------|-------------|--------|--------|---------|
| POINT | N | E | BEARING | DIST | DELTA | | L | Т | R |
| POT | 679299.633 | 860828.575 | | | | | | | |
| LINE | | | N 88°06′00.0" E | 69.11 | | | | | |
| PC | 679301.924 | 860897.651 | | | | | | | |
| CURVE | | | S 88°54′00.0" E | 299.86 | 06°00′00.0"(RT) | 02°00′00.0" | 300.00 | 150.14 | 2864.79 |
| PT | 679296.168 | 861197.459 | | | | | | | |
| LINE | | | S 85°54′00.0"E | 110.10 | | | | | |
| PC | 679288.296 | 861307.275 | | | | | | | |
| CURVE | | | <u> </u> | 555.87 | <u> </u> | 02°07′30.0" | 556.86 | 279.43 | 2696.27 |
| PT | 679191.610 | 861854.675 | | | | | | | |
| LINE | | | S 74°04′00.0" E | 304.55 | | | | | |
| PC | 679108.005 | 862147.527 | | | | | | | |
| CURVE | | | <u> </u> | 380.74 | 06°40′00.0"(RT) | 01°45′00.0" | 380.95 | 190.69 | 3274.Ø4 |
| PT | 678982.375 | 862506.941 | | | | | | | |
| LINE | | | S 67°24′00.0" E | 78.42 | | | | | |
| POT | 678952.239 | 862579.337 | | | | | | | |

| EY3 | | | | | | | | | |
|-------|------------|------------|-----------------|--------|-----------------|-------------|--------|--------|---------|
| POINT | N | E | BEARING | DIST | DELTA | D | L | Т | R |
| POT | 679116.407 | 859297.981 | | | | | | | |
| LINE | | | S 77°28′00.0" E | 277.54 | | | | | |
| PC | 679056.178 | 859568.912 | | | | | | | |
| CURVE | | | S 81°32′34.3" E | 155.15 | 08°09′08.5"(LT) | 05°15′00.0" | 155.28 | 77.77 | 1091.35 |
| PCC | 679033.359 | 859722.377 | | | | | | | |
| CURVE | | | N 88°Ø2′25.7" E | 316.38 | 12°40′51.5"(LT) | 04°00′00.0" | 317.02 | 159.16 | 1432.39 |
| PT | 679044.177 | 860038.570 | | | | | | | |
| LINE | | | N 81°42′00.0" E | 99.50 | | | | | |
| PC | 679058.541 | 86Ø137.Ø26 | | | | | | | |
| CURVE | | | N 89°17′00.0" E | 224.04 | 15°10′00.0"(RT) | 06°45′00.0" | 224.69 | 113.01 | 848.83 |
| PT | 679061.343 | 860361.045 | | | | | | | |
| LINE | | | S 83°08′00.0" E | 56.01 | | | | | |
| PC | 679054.647 | 86Ø416.652 | | | | | | | |
| CURVE | | | S 87°36′00.0″E | 111.55 | 08°56′00.0"(LT) | 08°00′00.0" | 111.67 | 55.95 | 716.20 |
| PT | 679049.975 | 860528.108 | | | | | | | |
| LINE | | | N 87°56′00.0" E | 418.29 | | | | | |
| POT | 679065.060 | 860946.122 | | | | | | | |

| LT_LN | | | | | | | | | |
|-------|------------|------------|-----------------|---------|-----------------|-------------|---------|---------|---------|
| POINT | N | E | BEARING | DIST | DELTA | | L | Т | R |
| POT | 679178.333 | 860460.803 | | | | | | | |
| LINE | | | N 85°55′Ø2.3" E | 260.23 | | | | | |
| PC | 679196.860 | 860720.373 | | | | | | | |
| CURVE | | | S 77°24′27.8" E | 2192.08 | 33°20′59.8"(RT) | Ø1°30′00.0" | 2223.33 | 1144.15 | 3819.72 |
| PT | 678718.962 | 862859.721 | | | | | | | |
| | | | | | | | | | |

| RT_LN | | | | | | | | | | | | | |
|--------|------------|------------|-----------------|---------|-----------------|-------------|---------|--------|---------|-----------------|--------|--------|---|
| POINT | N | E | BEARING | DIST | DELTA | | L | Т | R | DELTA S | Ls | LT | |
| TS | 0.000 | 0.000 | | | | | | | | | | | |
| SPIRAL | | | N 86°40′02.2" E | 299.98 | | | | | | 02°15′00.0"(RT) | 300.00 | 200.02 | 1 |
| SC | 679155.873 | 860763.123 | | | | | | | | | | | |
| CURVE | | | S 78°20′27.7" E | 1782.31 | 26°59′00.0"(RT) | Ø1°3Ø′ØØ.Ø" | 1798.89 | 916.45 | 3819.72 | | | | |
| CS | 678795.693 | 862508.661 | | | | | | | | | | | |
| SPIRAL | | | S 63°20′57.7" E | 299.98 | | | | | | 02°15′00.0"(RT) | 300.00 | 200.02 | 1 |
| ST | 678795.693 | 862508.661 | | | | | | | | | | | |

II-MAR-2022 09:36 V:\NC\Survey\032112-34 D1 Jcgordon AT WKS-1903P

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

| ST | DELTA | | | Т | R | DELTA S | Ls | LT | ST |
|------|-----------------|-------------|--------|--------|---------|-----------------|--------|--------|--------|
| | | | | | | | | | |
| 2.25 | 15°41′38.4"(LT) | 02°00′00.0" | 784.7Ø | 394.82 | 2864.79 | | | | |
| | | | | | | | | | |
| 9.91 | | | | | | 04°00′00.0"(LT) | 400.00 | 266.73 | 133.40 |
| | | | | | | | | | |
| .26 | | | | | | | | | |
| | | | | | | | | | |

NOTES:

- AND SURVEYS UNIT.



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This 28th day of March, 2022.



ST 100.01 100.01

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