

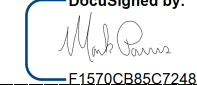
6/2/19

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: L40-G108
Northing: 679682.775
Easting: 856703.539
Combined grid factor: 0.999764259
Geoid model: G12BUS
Units: US SURVEY FT.


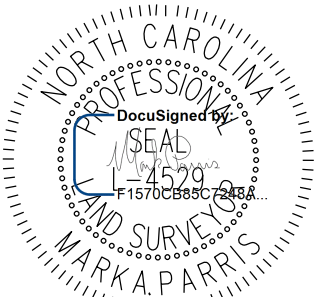
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This 28th day of March, 2022.

DocSigned by:

Professional Land Surveyor L-4529

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

| | |
|---|----------------------|
| PROJECT REFERENCE NO. HB-0004 | SHEET NO. RW02C-1 |
| Location and Surveys | |
|  | |
| PROJECT SURVEYOR | |
|  | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |



REVISIONS

MATCHLINE SHEET RW02C-2

**SEE SHEETS RW02C-5 THRU RW02C-6
FOR FURTHER
ALIGNMENT DETAILS**


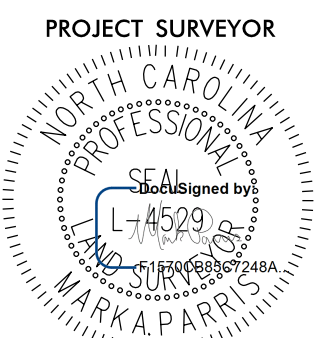
NOTES:

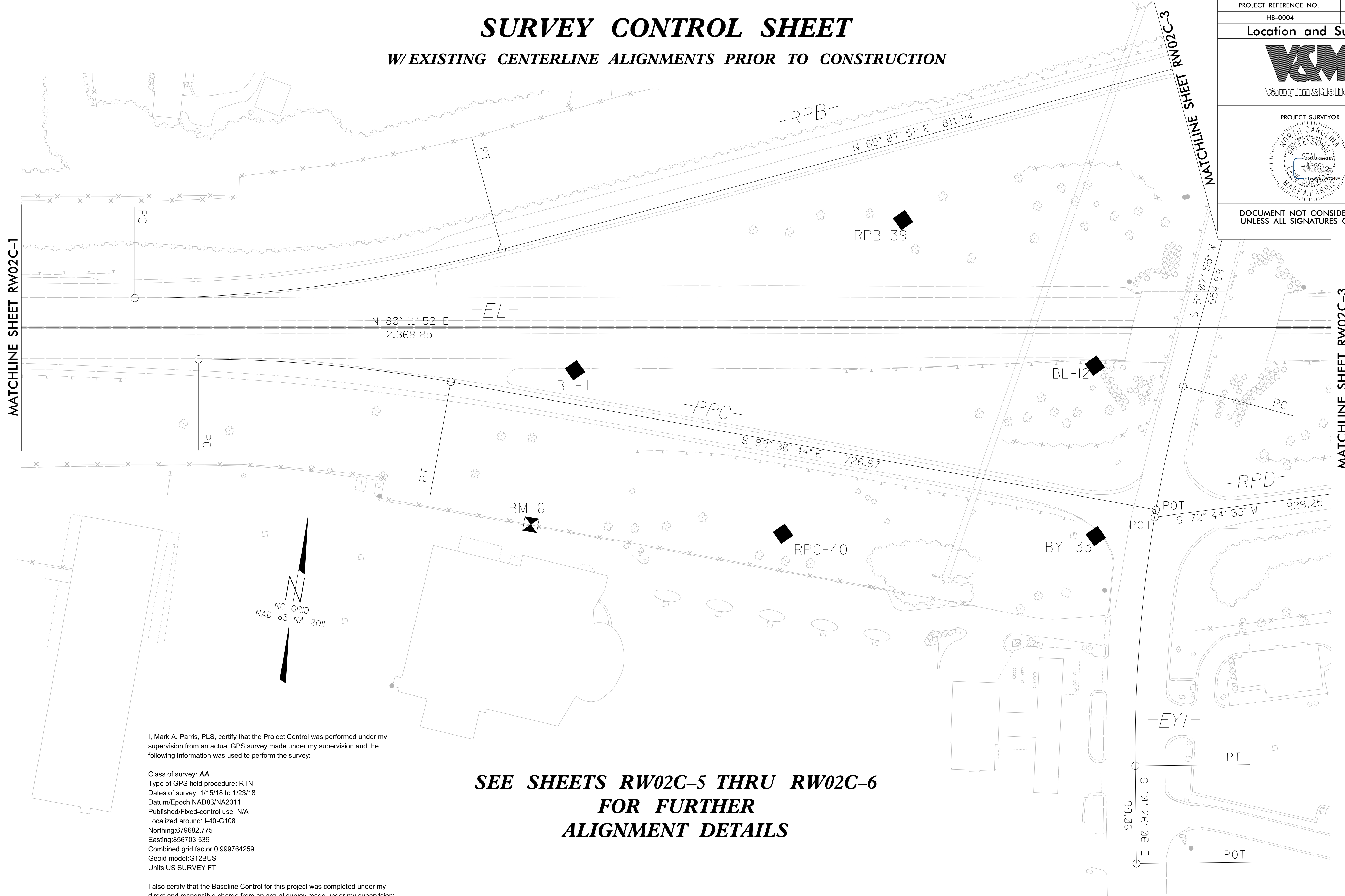
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2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

22-MAR-2022 09:29
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jcjordan

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

| | |
|---|----------------------|
| PROJECT REFERENCE NO. HB-0004 | SHEET NO. RW02C-2 |
| Location and Surveys | |
|  | |
| PROJECT SURVEYOR | |
|  | |
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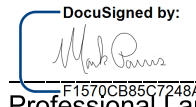


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 Units: US SURVEY FT.

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This 28th day of March, 2022.


 Professional Land Surveyor L-4529

**SEE SHEETS RW02C-5 THRU RW02C-6
FOR FURTHER
ALIGNMENT DETAILS**

NOTES:


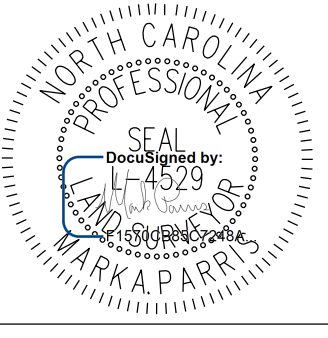
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REVISIONS

22-MAR-2022 09:30
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 jcgordon

SURVEY CONTROL SHEET

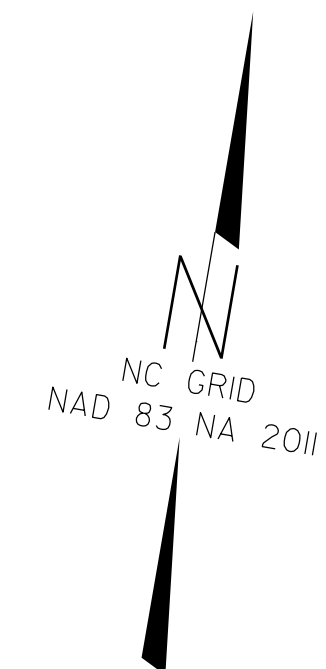
W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

| | |
|---|----------------------|
| PROJECT REFERENCE NO. HB-0004 | SHEET NO. RW02C-3 |
| Location and Surveys | |
|  | |
| PROJECT SURVEYOR | |
|  | |
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NOTES:

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SEE SHEETS RW02C-5 THRU RW02C-6 FOR FURTHER ALIGNMENT DETAILS

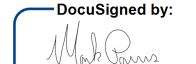


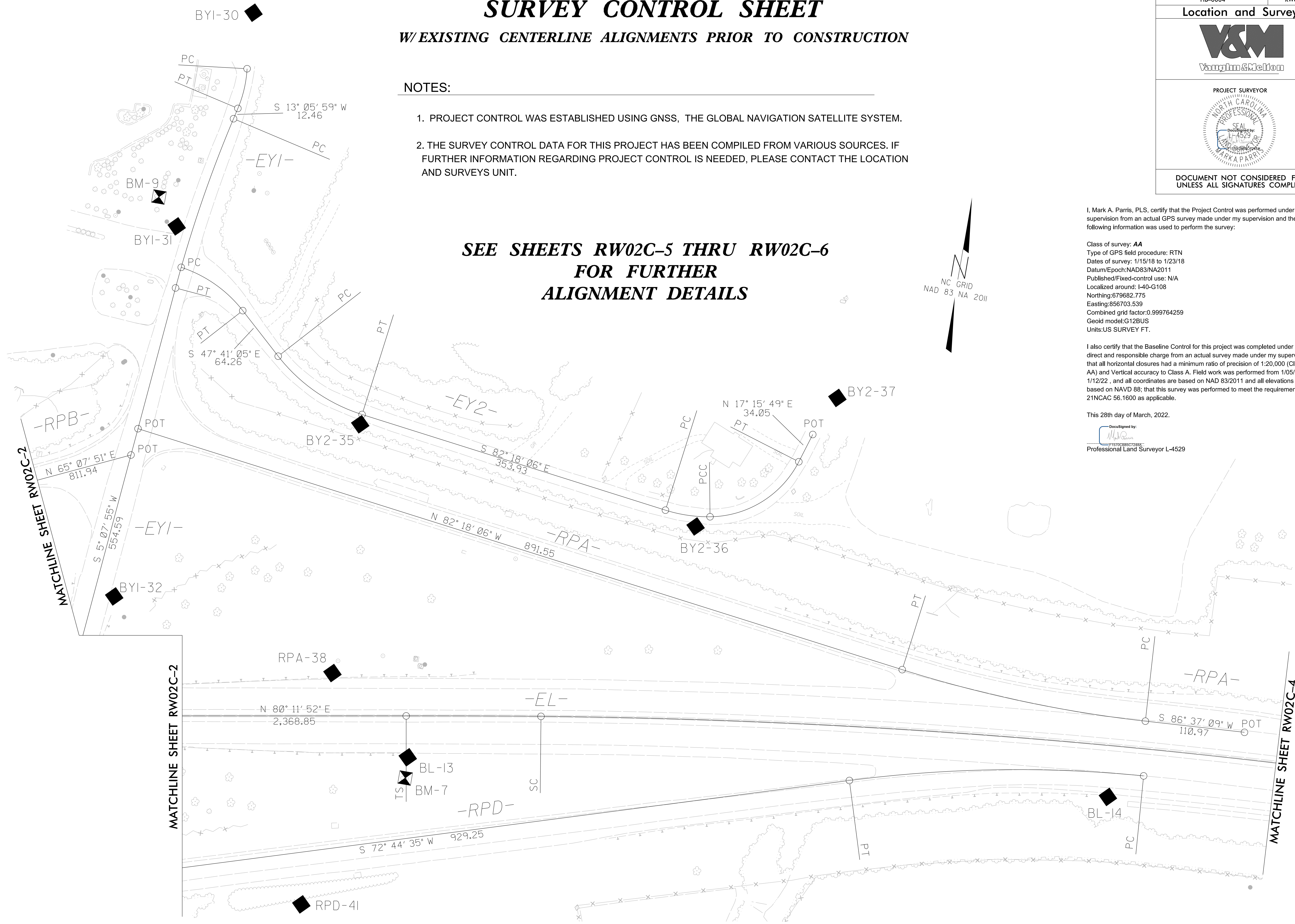
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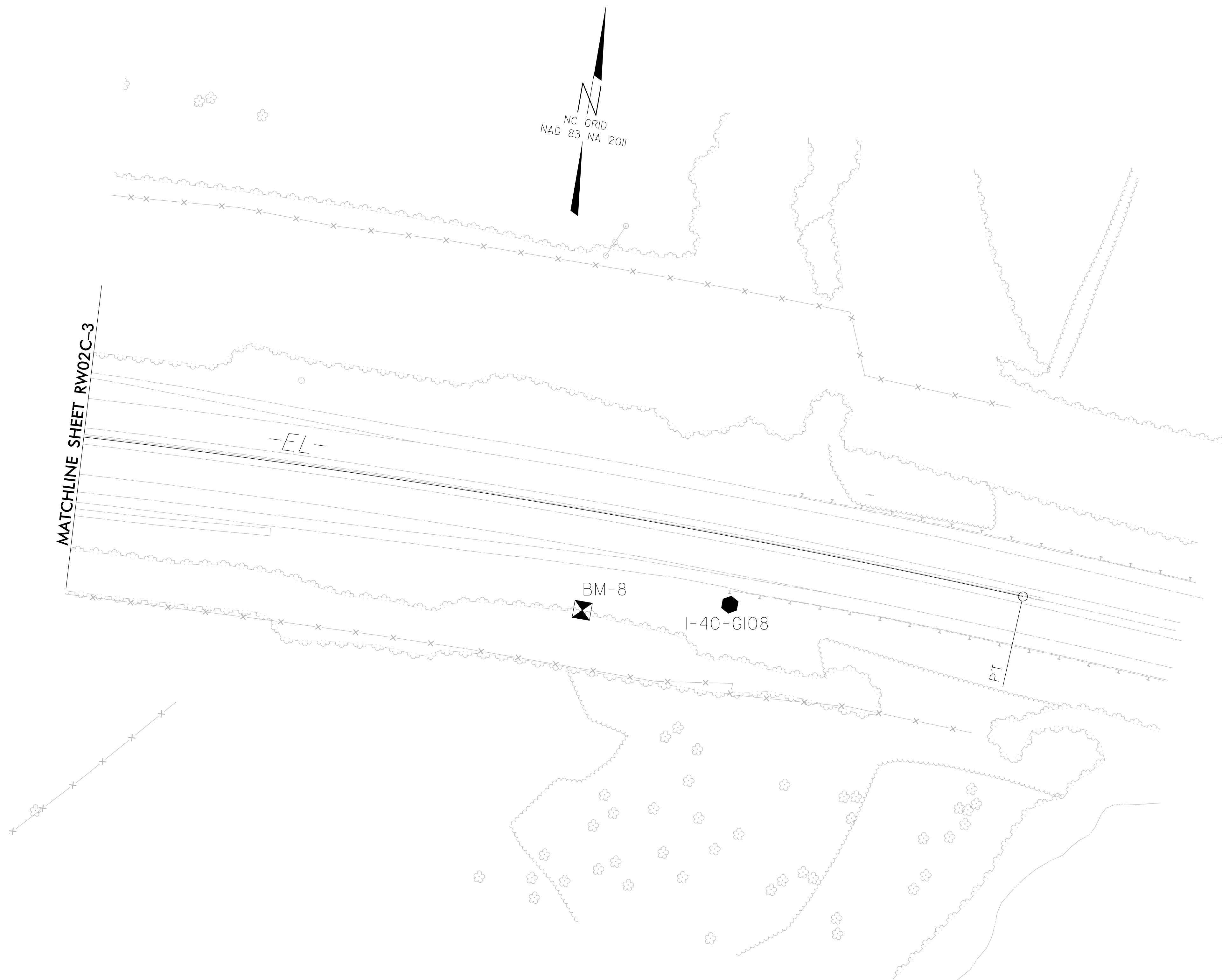


REVISIONS

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 Jcgordon

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



| | |
|--|----------------------|
| PROJECT REFERENCE NO. HB-0004 | SHEET NO. RW02C-4 |
| Location and Surveys | |
| | |
| PROJECT SURVEYOR | |
| | |
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This 28th day of March, 2022.

Professional Land Surveyor L-4529

I-40-G109


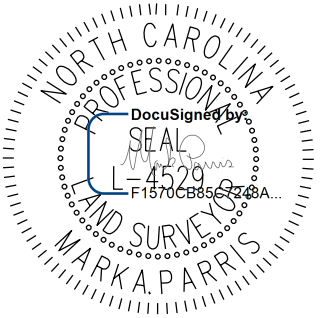
**SEE SHEETS RW02C-5 THRU RW02C-6
FOR FURTHER
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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

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|---|----------------------|
| PROJECT REFERENCE NO. HB-0004 | SHEET NO. RW02C-5 |
| Location and Surveys | |
|  | |
| PROJECT SURVEYOR  | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

| BL | POINT | DESC. | NORTH | EAST | ELEVATION |
|------|-------|---------------|-------------|-------------|-----------|
| 8 | | BL - 8 | 679070.7090 | 852327.8360 | 2656.04 |
| 9 | | BL - 9 | 679178.3640 | 852938.3250 | 2664.17 |
| 10 | | BL - 10 | 679291.0510 | 853615.3690 | 2672.56 |
| 11 | | BL - 11 | 679399.2790 | 854202.4750 | 2680.95 |
| 12 | | BL - 12 | 679493.6100 | 854721.2180 | 2656.04 |
| 13 | | BL - 13 | 679569.8550 | 855205.9150 | 2695.95 |
| 14 | | BL - 14 | 679659.0130 | 855981.0620 | 2710.21 |
| G108 | | I - 40 - G108 | 679682.7750 | 856703.5390 | 2721.41 |
| G109 | | I - 40 - G109 | 679656.8720 | 857321.8690 | 2730.24 |

| BY1 | POINT | DESC. | NORTH | EAST | ELEVATION |
|-----|-------|----------|-------------|-------------|-----------|
| 30 | | BY1 - 30 | 680356.9270 | 854895.7350 | 2665.05 |
| 31 | | BY1 - 31 | 680108.1280 | 854852.0120 | 2666.49 |
| 32 | | BY1 - 32 | 679690.5810 | 854853.6170 | 2668.95 |
| 33 | | BY1 - 33 | 679323.3630 | 854751.6330 | 2672.45 |
| 34 | | BY1 - 34 | 678887.7360 | 854816.1130 | 2654.55 |

| BY2 | POINT | DESC. | NORTH | EAST | ELEVATION |
|-----|-------|----------|-------------|-------------|-----------|
| Y31 | | BY1 - 31 | 680108.1280 | 854852.0120 | 2666.49 |
| 35 | | BY2 - 35 | 679925.9080 | 855090.7280 | 2689.06 |
| 36 | | BY2 - 36 | 679877.4310 | 855477.7990 | 2712.72 |
| 37 | | BY2 - 37 | 680045.1920 | 855608.8780 | 2732.82 |

| BRPA | POINT | DESC. | NORTH | EAST | ELEVATION |
|------|-------|----------|-------------|-------------|-----------|
| Y32 | | BY1 - 32 | 679690.5810 | 854853.6170 | 2668.95 |
| 38 | | RPA - 38 | 679647.9150 | 855107.3970 | 2695.01 |
| Y36 | | BY2 - 36 | 679877.4310 | 855477.7990 | 2712.72 |

| BRPB | POINT | DESC. | NORTH | EAST | ELEVATION |
|------|-------|----------|-------------|-------------|-----------|
| 39 | | RPB - 39 | 679606.0100 | 854504.4410 | 2676.59 |
| Y132 | | BY1 - 32 | 679690.5810 | 854853.6170 | 2668.95 |

| BRPC | POINT | DESC. | NORTH | EAST | ELEVATION |
|------|-------|----------|-------------|-------------|-----------|
| 40 | | RPC - 40 | 679271.7460 | 854438.6010 | 2674.69 |
| Y12 | | BL - 12 | 679493.6100 | 854721.2180 | 2656.04 |

| BRPD | POINT | DESC. | NORTH | EAST | ELEVATION |
|------|-------|----------|-------------|-------------|-----------|
| Y112 | | BL - 12 | 679493.6100 | 854721.2180 | 2656.04 |
| 41 | | RPD - 41 | 679388.4130 | 855117.0720 | 2690.33 |
| Y13 | | BL - 13 | 679569.8550 | 855205.9150 | 2695.95 |

.....
 BM5 ELEVATION = 2663.82
 N 679119 E 852874
 SPIKE SET IN BASE OF 10' PINE

 BM6 ELEVATION = 2683.74
 N 679237 E 854185
 PK NAIL SET IN FENCE POST

 BM7 ELEVATION = 2693.72
 N 679547 E 855207
 SPIKE IN BASE OF TRIPLE MAPLE

 BM8 ELEVATION = 2731.29
 N 679658 E 856585
 SPIKE IN 8" PINE STUMP

 BM9 ELEVATION = 2668.29
 N 680137 E 854827
 R/R SPIKE SET IN BASE OF 10" SYCAMORE

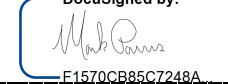
 BM10 ELEVATION = 2655.36
 N 678884 E 854797
 TOP OF NE BOLT ON SIGN BASE

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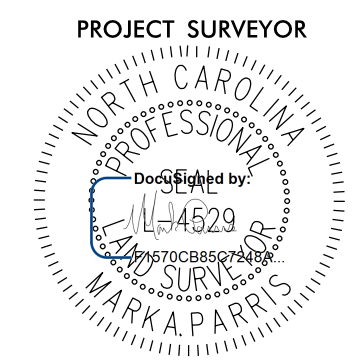
REVISIONS

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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

| | |
|---|----------------------|
| PROJECT REFERENCE NO. HB-0004 | SHEET NO. RW02C-5 |
| Location and Surveys | |
|  | |
| PROJECT SURVEYOR  | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

| EL POINT | N | E | BEARING | DIST | DELTA | D | L | T | R | DELTA S | Ls | LT | ST |
|----------|------------|------------|-----------------|---------|-----------------|-------------|---------|--------|---------|-----------------|--------|--------|-------|
| POT | 679211.637 | 852862.157 | | | | | | | | | | | |
| LINE | | | N 80°11'52.5" E | 2368.85 | | | | | | | | | |
| TS | 679614.923 | 855196.424 | | | | | | | | | | | |
| SPIRAL | | | N 80°23'07.5" E | 150.00 | | | | | | 00°33'45.0"(RT) | 150.00 | 100.00 | 50.00 |
| SC | 679639.976 | 855344.317 | | | | | | | | | | | |
| CURVE | | | N 86°45'37.5" E | 1597.08 | 12°00'00.0"(RT) | 00°45'00.0" | 1600.00 | 802.94 | 7639.44 | | | | |
| PT | 679730.229 | 856938.842 | | | | | | | | | | | |

| EY1 POINT | N | E | BEARING | DIST | DELTA | D | L | T | R |
|-----------|------------|------------|-----------------|--------|-----------------|-------------|--------|--------|---------|
| PC | 680294.328 | 854899.409 | | | | | | | |
| CURVE | | | S 03°15'14.8" W | 45.30 | 19°41'28.0"(RT) | 43°15'00.0" | 45.53 | 22.99 | 132.48 |
| PT | 680249.096 | 854896.837 | | | | | | | |
| LINE | | | S 13°05'58.8" W | 12.46 | | | | | |
| PC | 680236.963 | 854894.014 | | | | | | | |
| CURVE | | | S 09°06'56.8" W | 199.03 | 07°58'03.9"(LT) | 04°00'00.0" | 199.19 | 99.76 | 1432.39 |
| PT | 680040.443 | 854862.481 | | | | | | | |
| LINE | | | S 05°07'54.8" W | 554.59 | | | | | |
| PC | 679488.075 | 854812.873 | | | | | | | |
| CURVE | | | S 02°39'05.4" E | 387.97 | 15°34'00.5"(LT) | 04°00'00.0" | 389.17 | 195.79 | 1432.39 |
| PT | 679100.516 | 854830.821 | | | | | | | |
| LINE | | | S 10°26'05.6" E | 99.06 | | | | | |
| POT | 679003.094 | 854848.763 | | | | | | | |

| EY2 POINT | N | E | BEARING | DIST | DELTA | D | L | T | R |
|-----------|------------|------------|-----------------|--------|-----------------|-------------|--------|-------|--------|
| PC | 680064.128 | 854864.807 | | | | | | | |
| CURVE | | | S 64°40'15.2" E | 83.69 | 33°58'20.2"(RT) | 40°00'00.0" | 84.93 | 43.75 | 143.24 |
| PT | 680028.323 | 854940.453 | | | | | | | |
| LINE | | | S 47°41'05.1" E | 64.26 | | | | | |
| PC | 679985.060 | 854987.973 | | | | | | | |
| CURVE | | | S 64°59'35.6" E | 113.64 | 34°37'01.0"(LT) | 30°00'00.0" | 115.39 | 59.52 | 190.99 |
| PT | 679937.020 | 855090.963 | | | | | | | |
| LINE | | | S 82°18'06.1" E | 353.93 | | | | | |
| PC | 679889.609 | 855441.700 | | | | | | | |
| CURVE | | | N 88°37'52.3" E | 50.16 | 18°08'03.3"(LT) | 36°00'00.0" | 50.37 | 25.40 | 159.15 |
| PCC | 679890.807 | 855491.849 | | | | | | | |
| CURVE | | | N 48°24'49.7" E | 116.23 | 62°18'01.8"(LT) | 51°00'00.0" | 122.16 | 67.91 | 112.34 |
| PT | 679967.953 | 855578.783 | | | | | | | |
| LINE | | | N 17°15'48.8" E | 34.05 | | | | | |
| POT | 680000.473 | 855588.889 | | | | | | | |

| RPA POINT | N | E | BEARING | DIST | DELTA | D | L | T | R |
|-----------|------------|------------|-----------------|--------|-----------------|-------------|--------|--------|---------|
| POT | 679755.745 | 856118.628 | | | | | | | |
| LINE | | | S 86°37'08.6" W | 110.97 | | | | | |
| PC | 679749.200 | 856007.852 | | | | | | | |
| CURVE | | | N 87°50'28.8" W | 276.55 | 11°04'45.4"(RT) | 04°00'00.0" | 276.98 | 138.92 | 1432.39 |
| PT | 679759.617 | 855731.497 | | | | | | | |
| LINE | | | N 82°18'06.1" W | 891.55 | | | | | |
| POT | 679879.046 | 854847.986 | | | | | | | |

| RPB POINT | N | E | BEARING | DIST | DELTA | D | L | T | R |
|-----------|------------|------------|-----------------|--------|-----------------|-------------|--------|--------|---------|
| PC | 679395.488 | 853750.091 | | | | | | | |
| CURVE | | | N 72°39'51.6" E | 375.59 | 15°04'01.7"(LT) | 04°00'00.0" | 376.68 | 189.43 | 1432.39 |
| PT | 679507.403 | 854108.623 | | | | | | | |
| LINE | | | N 65°07'50.8" E | 811.94 | | | | | |
| POT | 679848.865 | 854845.276 | | | | | | | |

| RPC POINT | N | E | BEARING | DIST | DELTA | D | L | T | R |
|-----------|------------|------------|-----------------|--------|-----------------|-------------|--------|--------|---------|
| PC | 679345.413 | 853824.430 | | | | | | | |
| CURVE | | | N 85°20'34.5" E | 256.90 | 10°17'24.0"(RT) | 04°00'00.0" | 257.25 | 128.97 | 1432.39 |
| PT | 679366.271 | 854080.487 | | | | | | | |
| LINE | | | S 89°30'43.5" E | 726.67 | | | | | |
| POT | 679360.084 | 854807.132 | | | | | | | |

| RPD POINT | N | E | BEARING | DIST | DELTA | D | L | T | R |
|-----------|------------|------------|-----------------|--------|-----------------|-------------|--------|--------|---------|
| PC | 679688.855 | 856016.312 | | | | | | | |
| CURVE | | | S 79°18'22.0" W | 327.43 | 13°07'33.1"(LT) | 04°00'00.0" | 328.15 | 164.79 | 1432.39 |
| PT | 679628.096 | 855694.569 | | | | | | | |
| LINE | | | S 72°44'35.4" W | 929.25 | | | | | |
| POT | 679352.430 | 854807.151 | | | | | | | |

REVISIONS

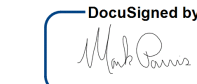
I5-MAR-2022 14:40 V:\NC\Survey\1032112-34_D14hb\CON-SUE\SURVEY\DATA - Work\hb004\HB0004_1s-RW02C-6.dgn jcgordon

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 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.


 F15702885C7288A

Professional Land Surveyor L-4529

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.