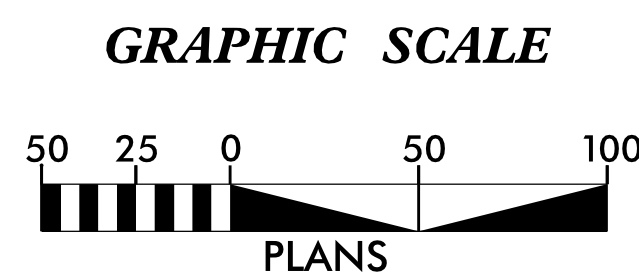
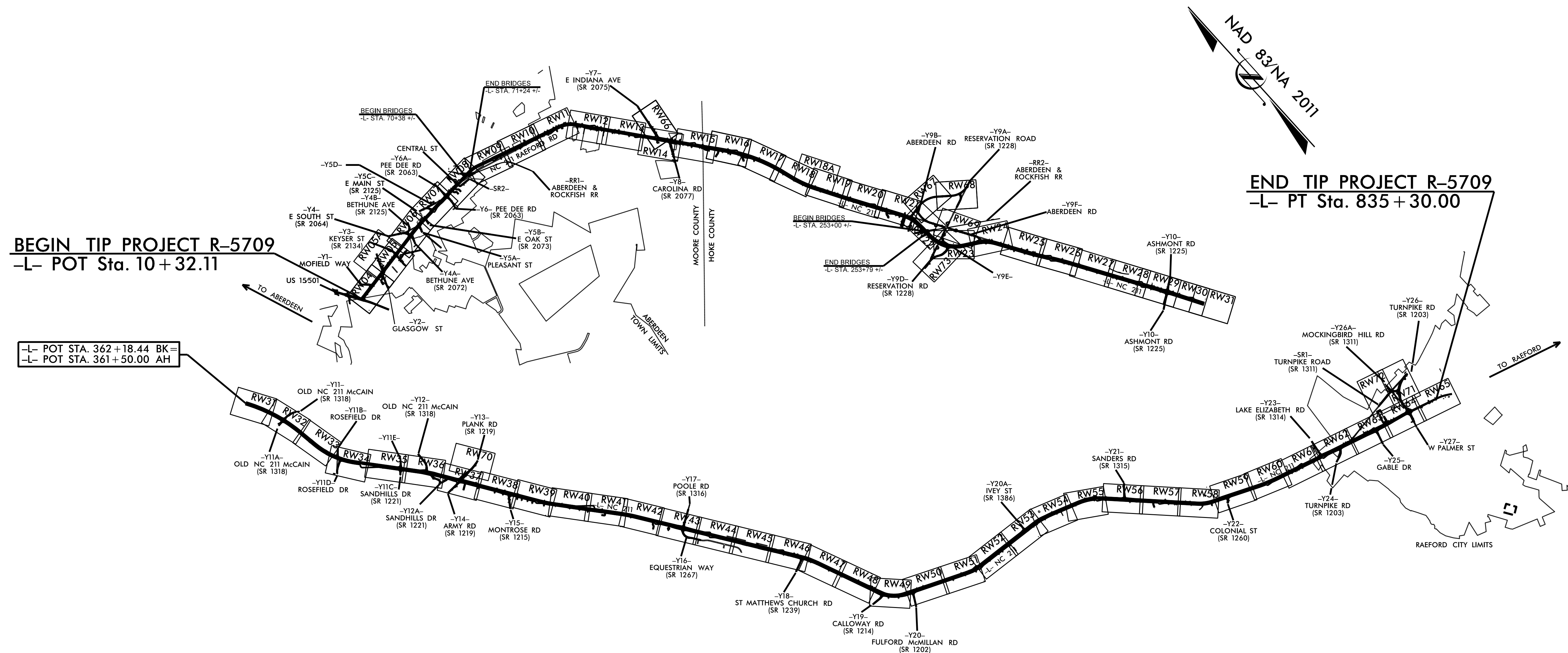


[illegible]

***MOORE/HOKE COUNTIES***

***TIP PROJECT: R-5709***



### ***DATUM DESCRIPTION***

**DATUM DESCRIPTION**  
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT  
IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY  
NC DOT FOR MONUMENT "PANEL 99"  
WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF  
NORTHING: 475,723.947(ft) EASTING: 1,895,788.743(ft)  
ELEVATION: R5709-6 502.595(ft) R5709-9 462.179(ft) R5709-17 503.891(ft) R5709-18 494.050(ft)  
R5709-28 377.695(ft) R5709-32 308.638(ft) R5709-33 299.183(ft)  
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT  
(GROUND TO GRID) IS: 0.999864698  
THE N.C. LAMBERT GRID BEARING AND  
LOCALIZED HORIZONTAL GRID DISTANCE FROM  
"PANEL 99" TO -L- STATION 10+00.00 IS  
N 44-16°53.7' W 34824.78(ft)  
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES  
VERTICAL DATUM USED IS NAVD 88-GEOID 12B

*Prepared in the Office of:*

N|V|5

NV5 ENGINEERS & CONSULTANTS, INC.  
3300 REGENCY PARKWAY, SUITE 100  
CARY, NC 27518  
P: 919.851.1912 [www.NV5.com](http://www.NV5.com)  
NC License # F-1333  
formerly CALYX Engineers & Consultants

2018 STANDARD SPECIFICATIONS

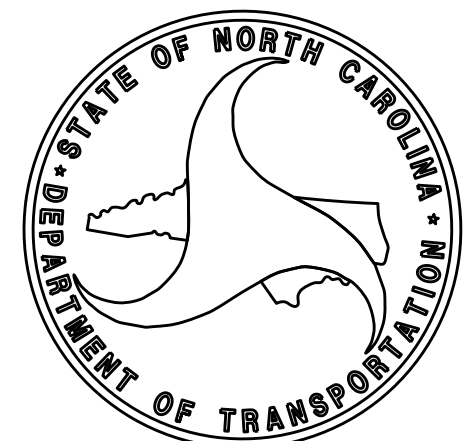
**RIGHT OF WAY DATE:**  
**04/23/2021**

**LETTING DATE:**  
**03/19/2024**

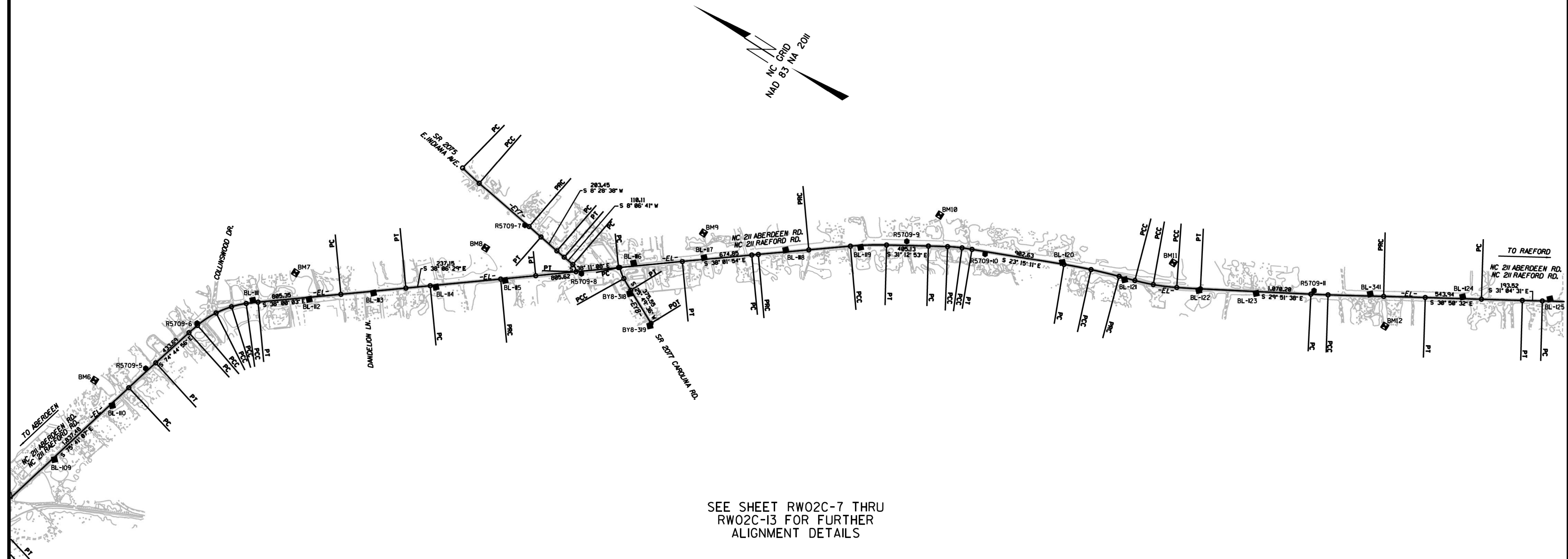
**PROFESSIONAL LAND  
SURVEYOR**

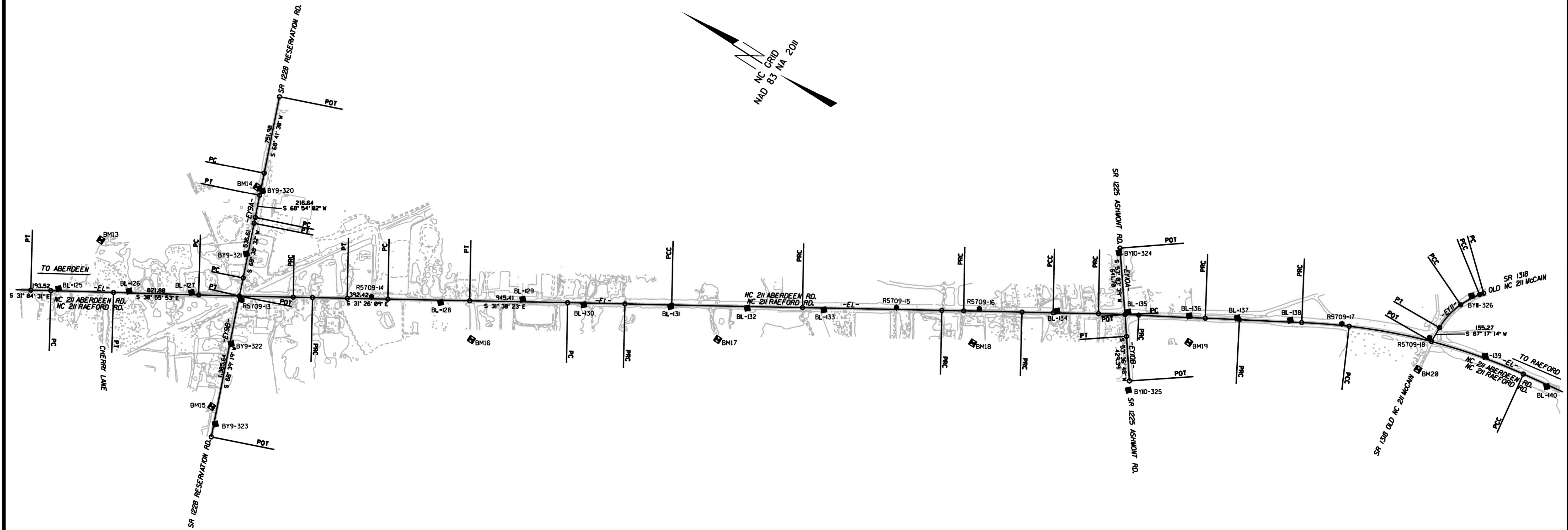
DocuSigned by:  
C. Andrew Heath Jr.  
2CC014B3929747F...

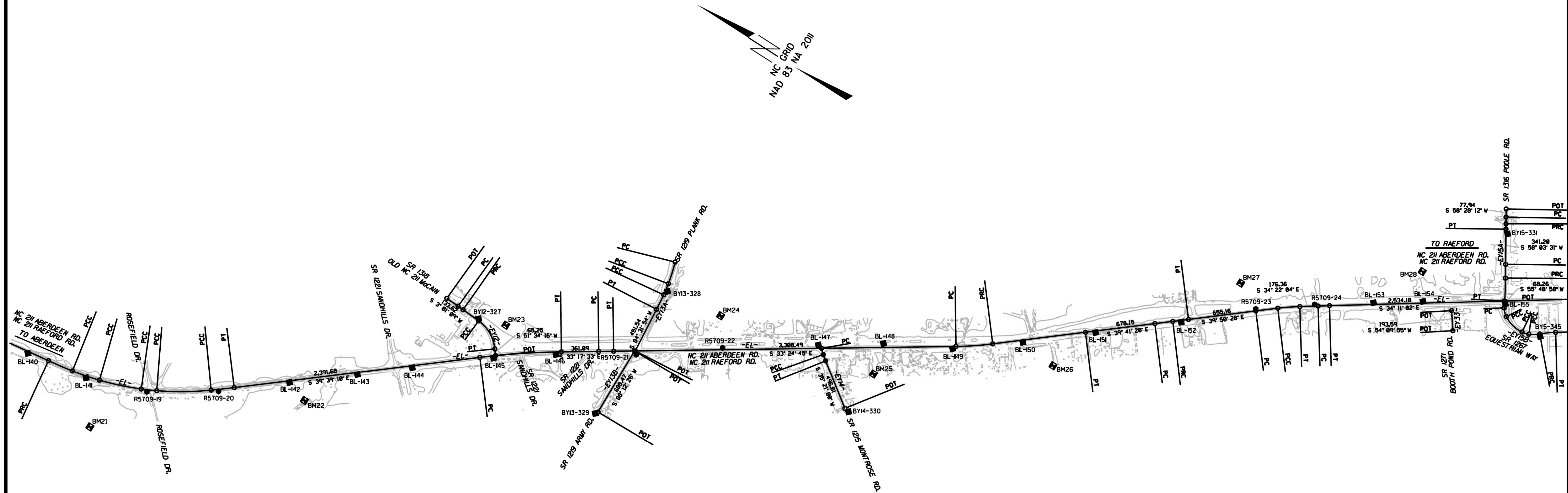
8/17/2021



























6/2/99

REVISIONS

6/2/99

SURVEY CONTROL SHEET  
W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.

R-5709

SHEET NO.

RW02C-13

Location and Surveys

CALYX

ENGINEERS + CONSULTANTS

6750 TRYON ROAD  
CARY, NC 27518  
phone: 919.851.1912  
CALYXengineers.com  
NC License # F-1333

|       |            |             |                 |        |                  |             |        |       |        |
|-------|------------|-------------|-----------------|--------|------------------|-------------|--------|-------|--------|
| EY35  |            |             |                 |        |                  |             |        |       |        |
| POINT | N          | E           | BEARING         | DIST   | DELTA            | D           | L      | T     | R      |
| POT   | 463709.016 | 1904287.823 |                 |        |                  |             |        |       |        |
| LINE  |            |             | S 55°54'08.9" W | 49.61  |                  |             |        |       |        |
| PC    | 463681.204 | 1904246.742 |                 |        |                  |             |        |       |        |
| CURVE |            |             | S 51°09'15.6" W | 111.76 | 09°29'46.6"(L.T) | 08°29'15.5" | 111.88 | 56.07 | 675.05 |
| PT    | 463611.109 | 1904159.702 |                 |        |                  |             |        |       |        |

|       |            |             |                 |        |                  |             |        |        |         |
|-------|------------|-------------|-----------------|--------|------------------|-------------|--------|--------|---------|
| EY36  |            |             |                 |        |                  |             |        |        |         |
| POINT | N          | E           | BEARING         | DIST   | DELTA            | D           | L      | T      | R       |
| PC    | 456902.969 | 1912947.712 |                 |        |                  |             |        |        |         |
| CURVE |            |             | S 05°27'19.7" W | 269.40 | 02°01'06.1"(L.T) | 00°44'57.0" | 269.42 | 134.72 | 7648.03 |
| PT    | 456634.786 | 1912922.099 |                 |        |                  |             |        |        |         |

|       |            |             |                 |        |                 |             |        |        |        |
|-------|------------|-------------|-----------------|--------|-----------------|-------------|--------|--------|--------|
| EY37  |            |             |                 |        |                 |             |        |        |        |
| POINT | N          | E           | BEARING         | DIST   | DELTA           | D           | L      | T      | R      |
| POT   | 452523.372 | 1919359.762 |                 |        |                 |             |        |        |        |
| LINE  |            |             | S 23°49'22.0" W | 82.54  |                 |             |        |        |        |
| PC    | 452447.869 | 1919326.425 |                 |        |                 |             |        |        |        |
| CURVE |            |             | S 43°44'19.9" W | 210.09 | 39°49'55.8"(RT) | 18°34'48.5" | 214.38 | 111.73 | 308.37 |
| PT    | 452296.080 | 1919181.175 |                 |        |                 |             |        |        |        |

|       |            |             |                 |        |                 |             |        |        |          |
|-------|------------|-------------|-----------------|--------|-----------------|-------------|--------|--------|----------|
| EY38  |            |             |                 |        |                 |             |        |        |          |
| POINT | N          | E           | BEARING         | DIST   | DELTA           | D           | L      | T      | R        |
| PC    | 451302.332 | 1926411.908 |                 |        |                 |             |        |        |          |
| CURVE |            |             | N 85°06'57.2" E | 970.26 | 01°48'01.8"(RT) | 00°11'08.0" | 970.30 | 485.19 | 30876.93 |
| PT    | 451384.940 | 1927378.644 |                 |        |                 |             |        |        |          |

- 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.





























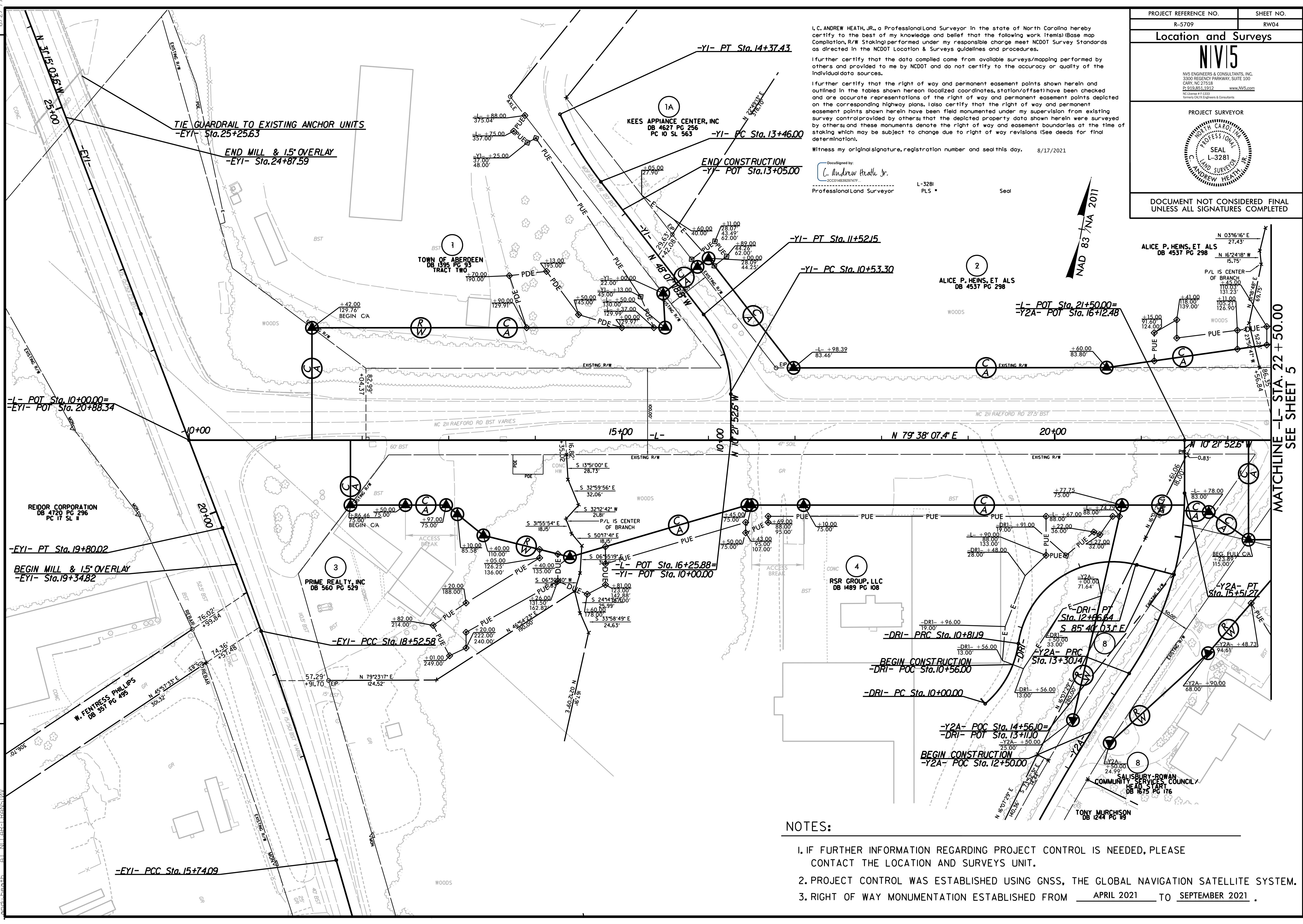






6/2/2019 17-AUG-2023 11:50 C:\AUG-2023\1150\2021014\_20 SURV\p\w\sheets\5709\1s\_r\04.dgn 61 NOT FOR CONSTRUCTION

REVISIONS



I, C. ANDREW HEATH, JR., a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work (Items) (Base map, Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).

Witness my original signature, registration number and seal this day, 8/17/2021

DocuSigned by:  
C. Andrew Heath Jr.  
20C014B3029747F  
Professional Land Surveyor

L-3281  
PLS

Seal

|                                                                                                                                                                                        |           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| PROJECT REFERENCE NO.                                                                                                                                                                  | SHEET NO. |
| R-5709                                                                                                                                                                                 | RW04      |
| Location and Surveys                                                                                                                                                                   |           |
| NIV5                                                                                                                                                                                   |           |
| NV5 ENGINEERS & CONSULTANTS, INC.<br>3300 REGENCY PARKWAY, SUITE 100<br>CARY, NC 27513<br>P-919.851.1912 www.NV5.com<br>NC License # F-1333<br>Formerly C&A NV Engineers & Consultants |           |
| PROJECT SURVEYOR                                                                                                                                                                       |           |
| SEAL<br>L-3281<br>C. ANDREW HEATH, JR.<br>PROFESSIONAL LAND SURVEYOR                                                                                                                   |           |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED                                                                                                                       |           |

- NOTES:
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
  2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
  3. RIGHT OF WAY MONUMENTATION ESTABLISHED FROM APRIL 2021 TO SEPTEMBER 2021.

6/2/2019

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DocuSigned by:

C. Andrew Heath, Jr.  
Professional Land Surveyor

L-3281  
PLS #

Seal

REVISIONS

MATCHLINE -L- STA. 22 + 50.00  
SEE SHEET 4

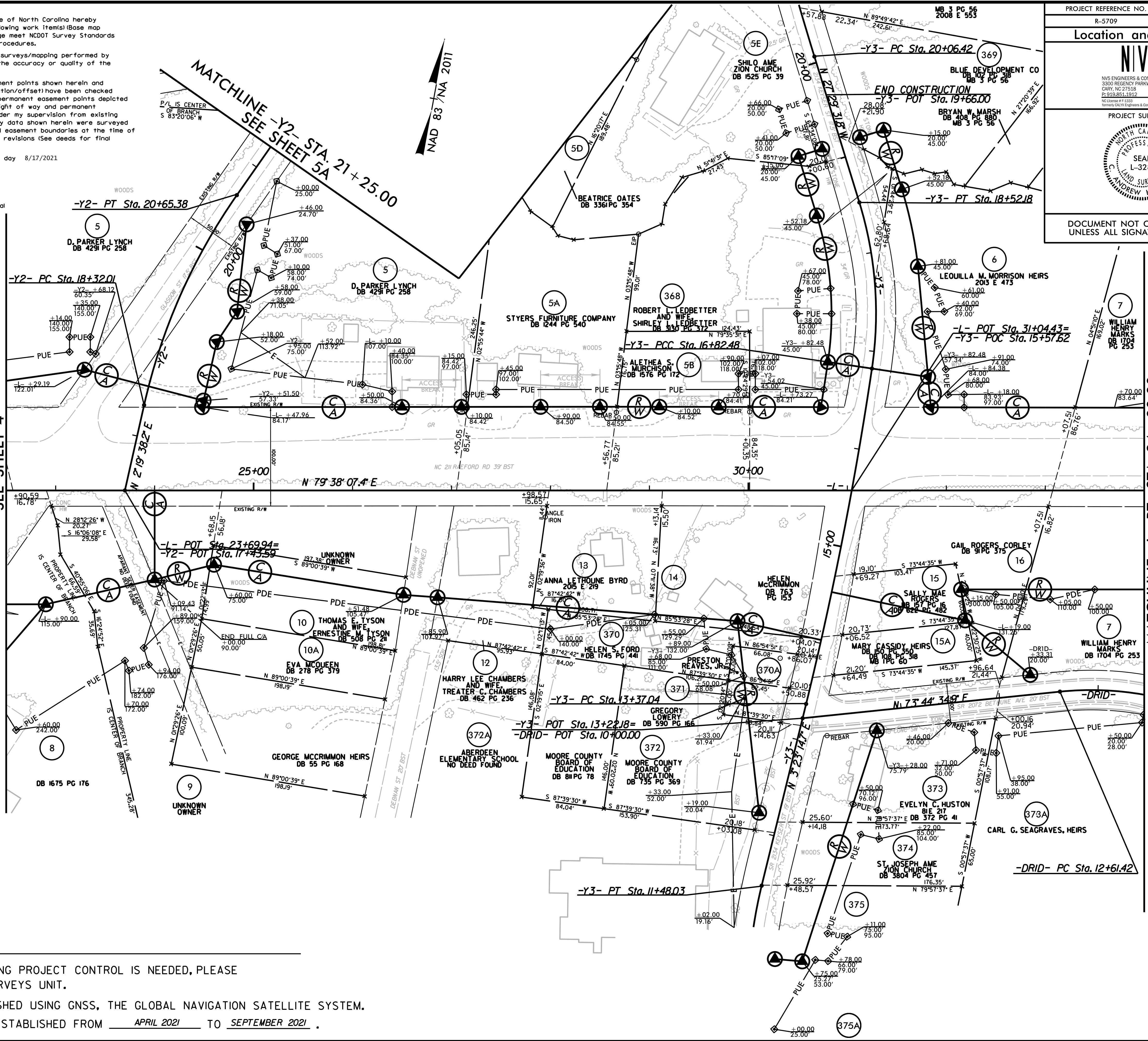
MATCHLINE -L- RT. STA. 34 + 00.00  
SEE SHEET 6

#### NOTES:

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17-AUG-2021 12:42  
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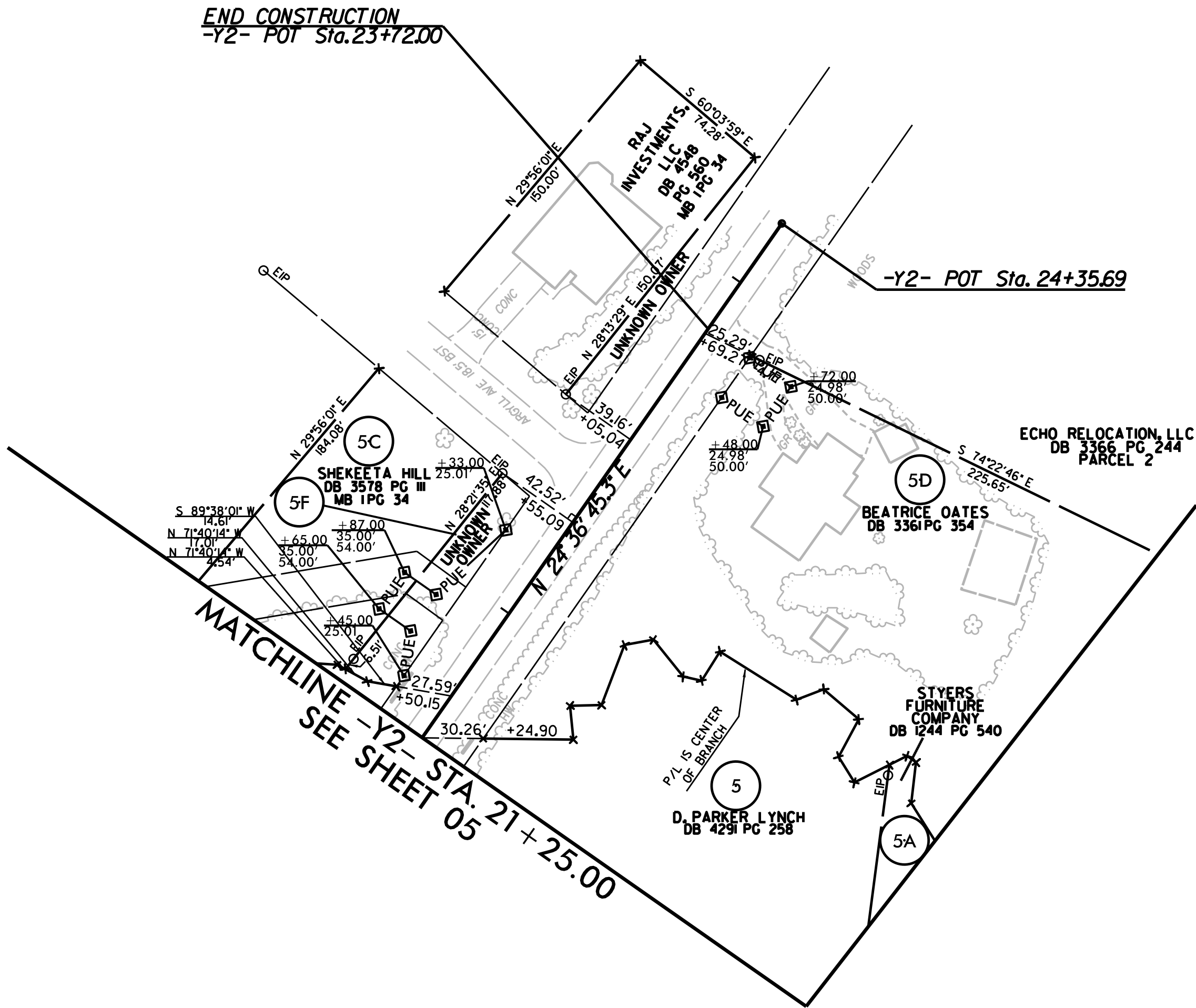
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| PROJECT REFERENCE NO.                                                                                                        | SHEET NO. |
| R-5709                                                                                                                       | RW05      |
| Location and Surveys                                                                                                         |           |
| NIVIS                                                                                                                        |           |
| NIVIS ENGINEERS & CONSULTANTS, INC.<br>3300 REGENCY PARKWAY, SUITE 100<br>CARY, NC 27518<br>P: 919.851.1912<br>www.nivis.com |           |
| PROJECT SURVEYOR                                                                                                             |           |
| SEAL<br>L-3281<br>C. ANDREW HEATH, JR.                                                                                       |           |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED                                                             |           |



REVISIONS

17-AUG-2023 11:50  
C:\Users\jheath\OneDrive\Documents\2021\14.20\SURF\rw\_sheets\5709\15.rvw5A.dgn  
jheath

NAD 83 / NA 2011



I, C. ANDREW HEATH, JR., a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Completion, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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Witness my original signature, registration number and seal this day, 8/17/2021

DocuSigned by:  
C. Andrew Heath Jr.  
20C01483929747F...  
Professional Land Surveyor

L-3281  
PLS \*

Seal

|                                                                                                                                                                                                          |           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| PROJECT REFERENCE NO.                                                                                                                                                                                    | SHEET NO. |
| R-5709                                                                                                                                                                                                   | RW05A     |
| Location and Surveys                                                                                                                                                                                     |           |
| NIVIS<br>NIVS ENGINEERS & CONSULTANTS, INC.<br>3300 REGENCY PARKWAY, SUITE 100<br>DURHAM, NC 27718<br>P: 919.851.1912 www.NIVS.com<br>NC License # F-5333<br>Surveying & Mapping Engineers & Consultants |           |
| PROJECT SURVEYOR<br>NORTH CAROLINA<br>PROFESSIONAL<br>SEAL<br>L-3281<br>LAND SURVEYOR<br>C. ANDREW HEATH, JR.                                                                                            |           |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED                                                                                                                                         |           |

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DocuSigned by:

C. Andrew Heath Jr.  
2C0014B3929747F...  
Professional Land Surveyor

L-3281

PLS ■

2

DS MOORE APARTMENTS CORPORATION  
DB 1074 PG 154

END CONSTRUCTION  
-Y4B- POT Sta. 13+25.00

$$\frac{-Y4 - POC \text{ Sta. } 11+62.38}{-Y4B - POT \text{ Sta. } 10+00.00}$$

00.7 E

-Y4B-

E SOUTH ST 2

**NCDOT  
NO DEED FOUND**

---

85.00'

-L- +36.65

37.00'

50.00'

57.00'  
+27.03  
35.00'  
+10.00

51.00  
69.00  
+28.00  
67.00

TERR.  
DB  
PC

383  
LONNIE LITTLE

N 67°  
18R

31.09.09  
75.00

---

NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED FROM APRIL 2021 TO SEPTEMBER 2021.

**MATCHLINE -L- STA. 34+00.00  
SEE SHEET 5**

MATCHLINE -L- STA. 47 + 00.00  
SEE SHEET 7

1

SATELL  
PTEMBER 2

