

6/2/19

Location and Surveys

# NIVIS

NIVIS ENGINEERS & CONSULTANTS, INC.  
 3300 REGENCY PARKWAY, SUITE 100  
 CARY, NC 27518  
 P: 919.851.1912 www.nivis.com  
 NC License # F-1333  
 Approved PLS for Engineers & Consultants

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

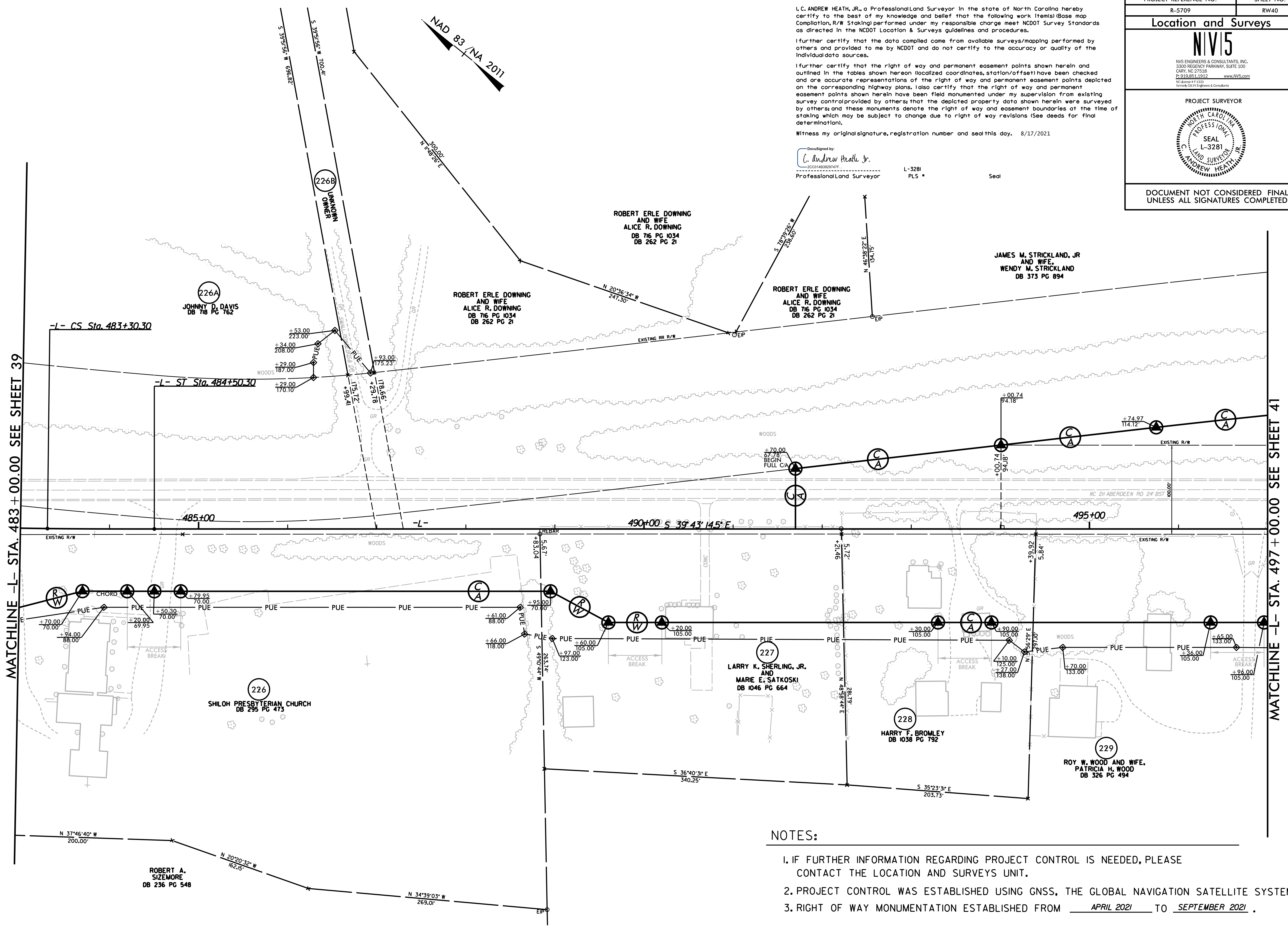
I, C. ANDREW HEATH, JR., a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & 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.  
 202011483929747F  
 Professional Land Surveyor L-3281 PLS Seal



### NOTES:

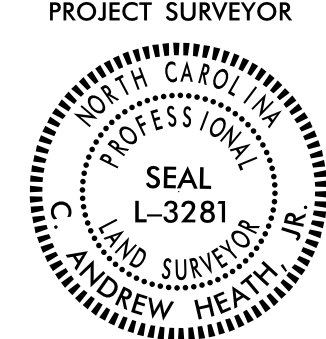
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED FROM APRIL 2021 TO SEPTEMBER 2021.

REVISIONS

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 6/2/19



6/2/09

|   |           |
|---|-----------|
| PROJECT REFERENCE NO.   | SHEET NO. |
| R-5709  | RW41      |
| <b>Location and Surveys</b>   |           |
| <b>NIVIS</b>  |           |
| <small>NIVS ENGINEERS &amp; CONSULTANTS, INC.<br/>         3300 REGENCY PARKWAY, SUITE 100<br/>         CARY, NC 27518<br/>         P: 919.851.1912 www.NIVS.com<br/>         NC License # 1333<br/>         Formerly CIVIL ENGINEERS &amp; CONSULTANTS</small> |           |
| PROJECT SURVEYOR  |           |
|    |           |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED  |           |

L.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, Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

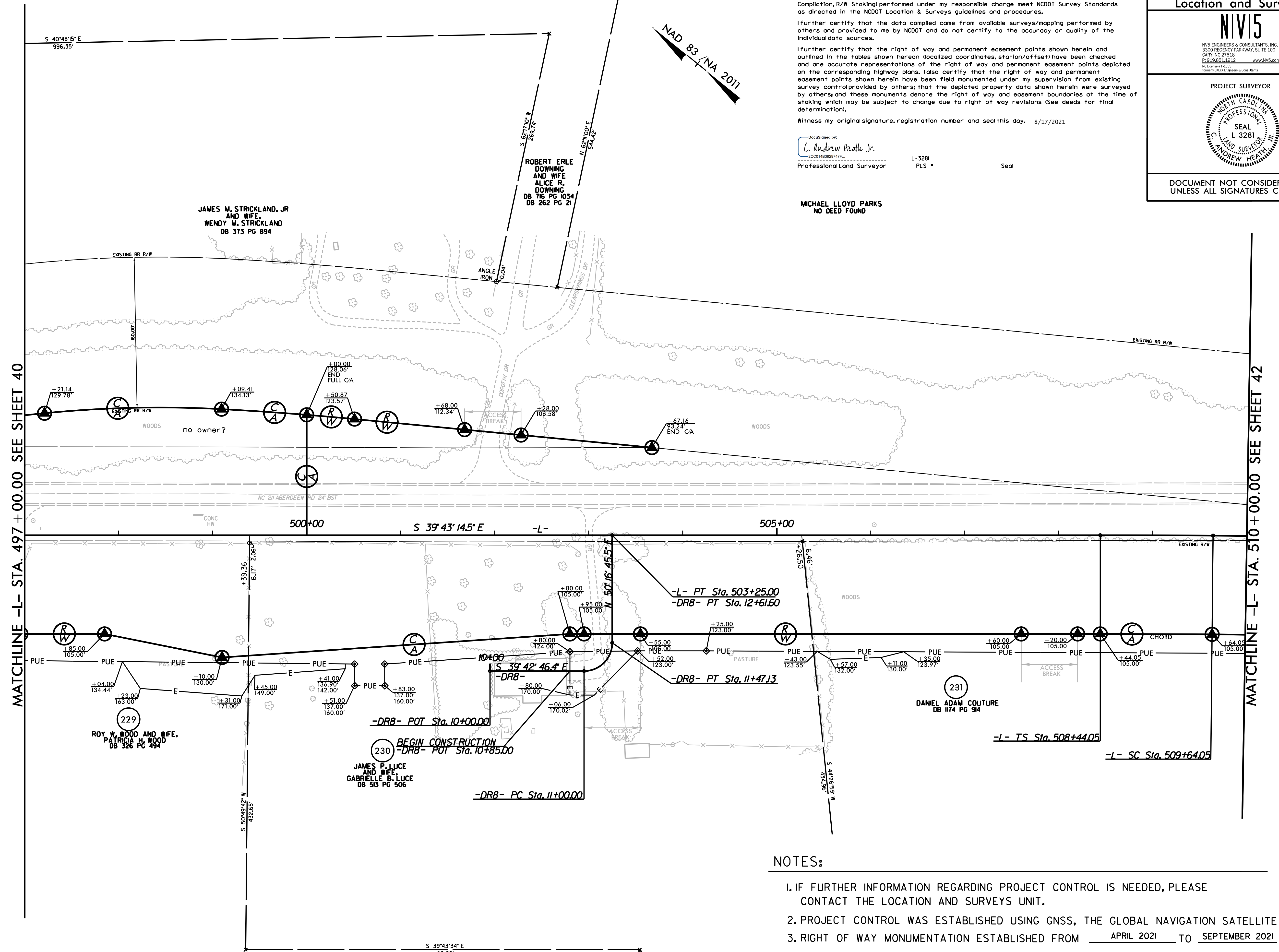
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DocuSigned by:  
*L. Andrew Heath, Jr.*  
 L-3281  
 Professional Land Surveyor PLS \* Seal

MICHAEL LLOYD PARKS  
NO DEED FOUND



REVISIONS

MATCHLINE -L- STA. 497 +00.00 SEE SHEET 40

MATCHLINE -L- STA. 510 +00.00 SEE SHEET 42

NOTES:

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3. RIGHT OF WAY MONUMENTATION ESTABLISHED FROM APRIL 2021 TO SEPTEMBER 2021.

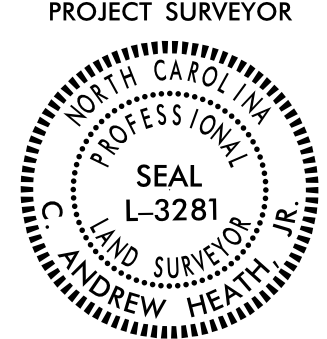
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 L. Andrew Heath  
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6/2/2019


|  |           |
|--|-----------|
| PROJECT REFERENCE NO.  | SHEET NO. |
| R-5709   | RW43      |
| <b>Location and Surveys</b>  |           |
| <b>NIVIS</b>   |           |
| <small>NVIS ENGINEERS &amp; CONSULTANTS, INC.<br/>         3300 REGENCY PARKWAY, SUITE 100<br/>         CARY, NC 27515<br/>         P: 919.851.1912 www.nvis.com<br/>         NC License # F-5333<br/>         Surveying P&amp;E Engineers &amp; Consultants</small> |           |
| PROJECT SURVEYOR   |           |
|   |           |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED   |           |

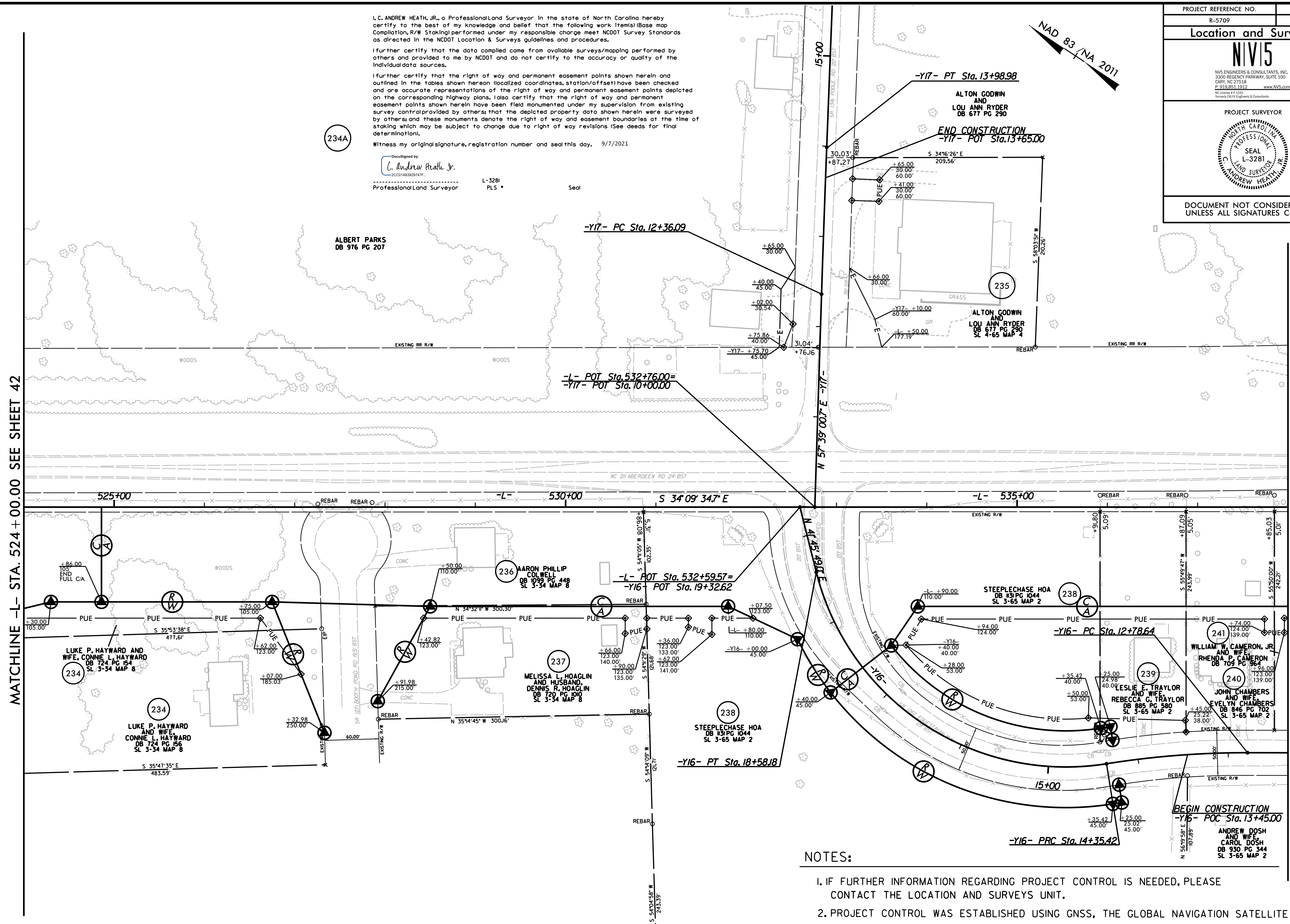
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Witness my original signature, registration number and seal this day, 9/7/2021

DocuSigned by:  
  
 20001483929747E  
 L-3281  
 Professional Land Surveyor PLS Seal



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REVISIONS  
 9/7/2021 - REVISED PER DIVISION L&S COMMENTS

MATCHLINE -L- STA. 524 + 00.00 SEE SHEET 42

MATCHLINE -L- STA. 538 + 00.00 SEE SHEET 44

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6/2/09

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L:\AUG-2021\5709\pww\sheets\5709\ls\_rw4.dgn

NAD 83 / NA 2011

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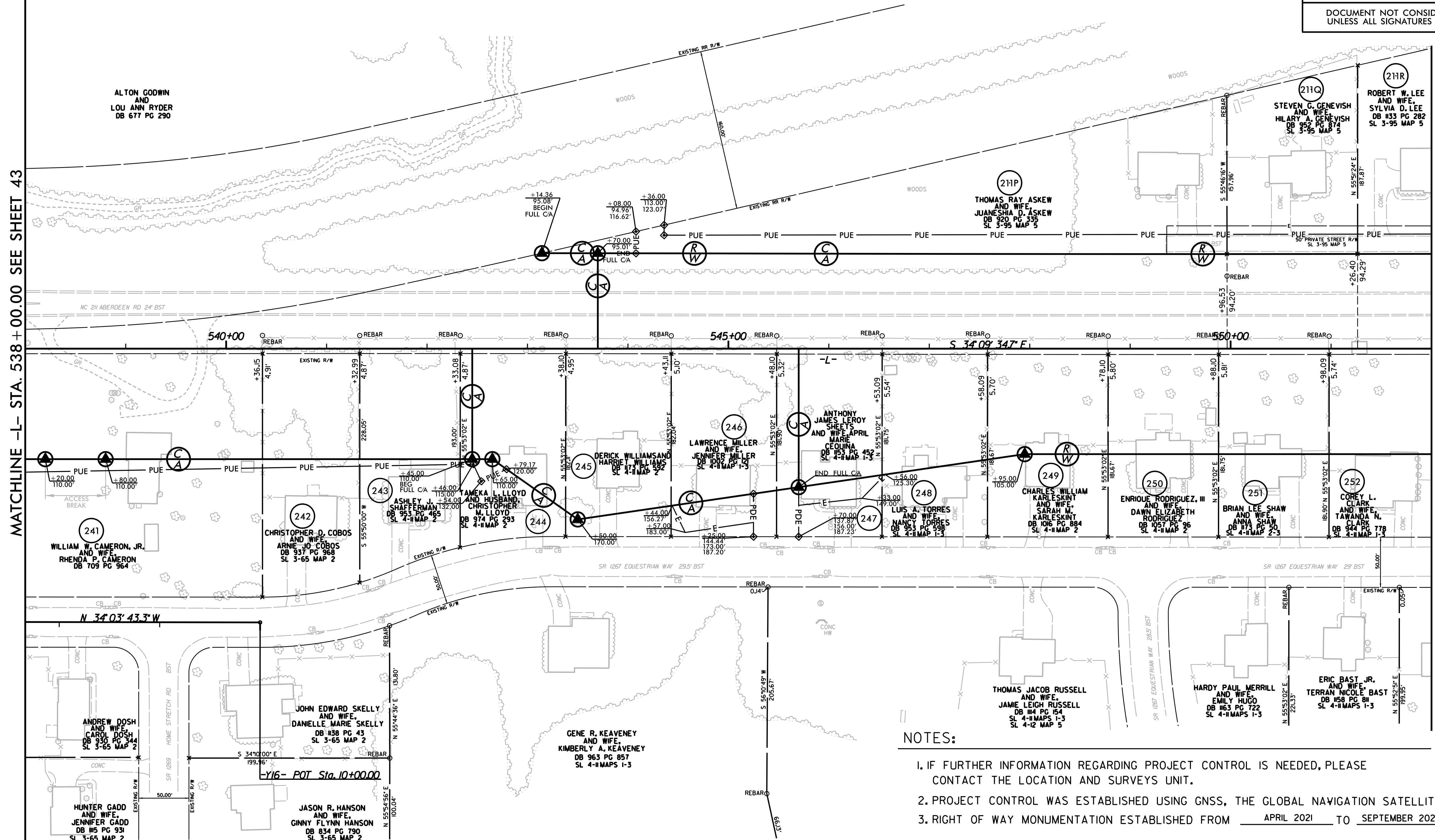
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DocuSigned by:  
*L.C. Andrew Heath Jr.*  
Professional Land Surveyor L-3281 PLS \* Seal

|  |                   |
|--|-------------------|
| PROJECT REFERENCE NO.<br>R-5709  | SHEET NO.<br>RW44 |
| <b>Location and Surveys</b>  |                   |
| <b>NIVIS</b>   |                   |
| <small>NIVIS ENGINEERS &amp; CONSULTANTS, INC.<br/>3300 REGENCY PARKWAY, SUITE 100<br/>CARY, NC 27518<br/>P: 919.851.1912 www.nivis.com<br/>NC License # F 1533<br/>Formerly CIVIL ENGINEERS &amp; CONSULTANTS</small> |                   |
| PROJECT SURVEYOR   |                   |
|  |                   |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED   |                   |



- NOTES:**
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  - RIGHT OF WAY MONUMENTATION ESTABLISHED FROM APRIL 2021 TO SEPTEMBER 2021.



6/2/2019

**Location and Surveys**

**NIVIS**  
 NIVS ENGINEERS & CONSULTANTS, INC.  
 3300 REGENCY PARKWAY, SUITE 100  
 CARR, NC 27518  
 P: 919.851.1912 www.nivis.com  
 NC License # 1233  
 General Civil Engineers & Consultants

PROJECT SURVEYOR

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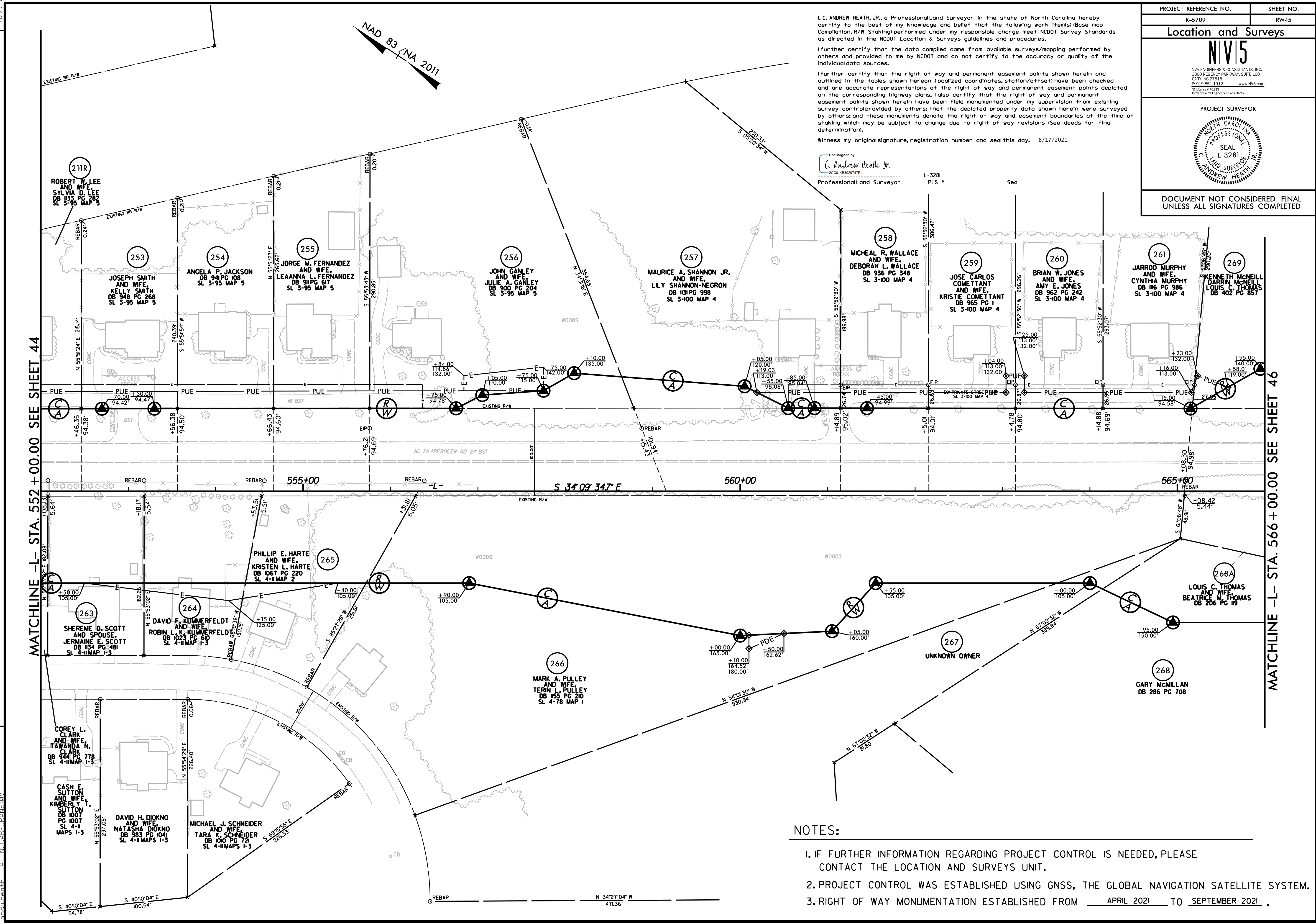
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*C. Andrew Heath, Jr.*  
 L-3281  
 PLS # Seal  
 Professional Land Surveyor



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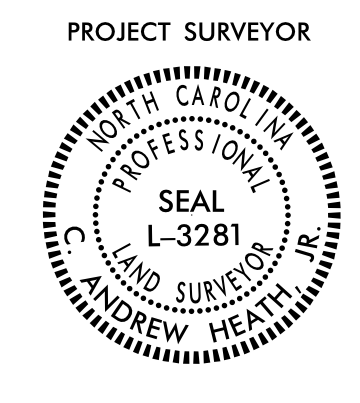
REVISIONS

MATCHLINE -L- STA. 552 + 00.00 SEE SHEET 44

MATCHLINE -L- STA. 566 + 00.00 SEE SHEET 46

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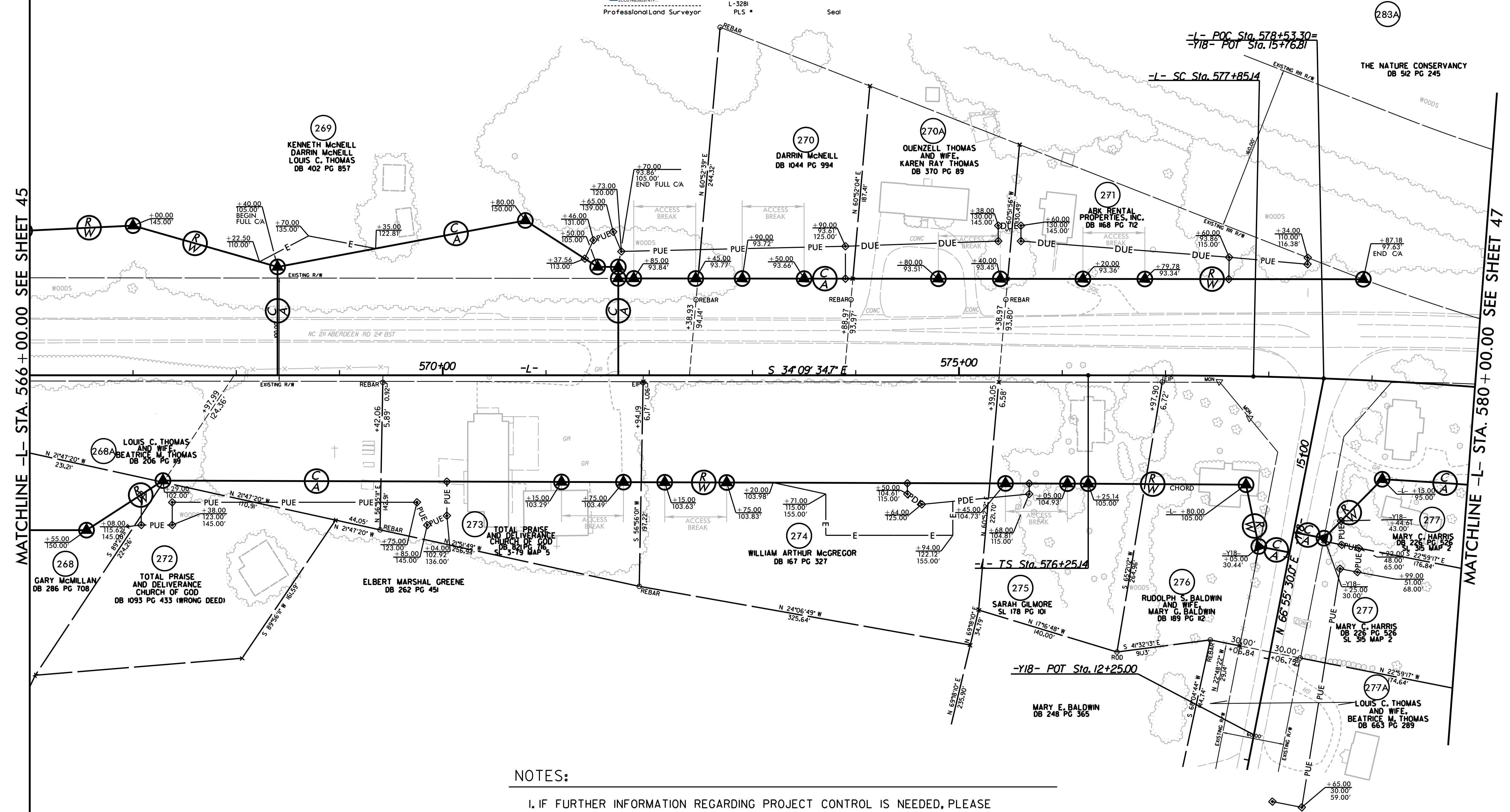
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 L-3281  
 PLS  
 Professional Land Surveyor

L-3281  
 PLS  
 Seal

NAD 83 / NA 2011



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  - RIGHT OF WAY MONUMENTATION ESTABLISHED FROM APRIL 2021 TO SEPTEMBER 2021.

REVISIONS

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6/2/2019

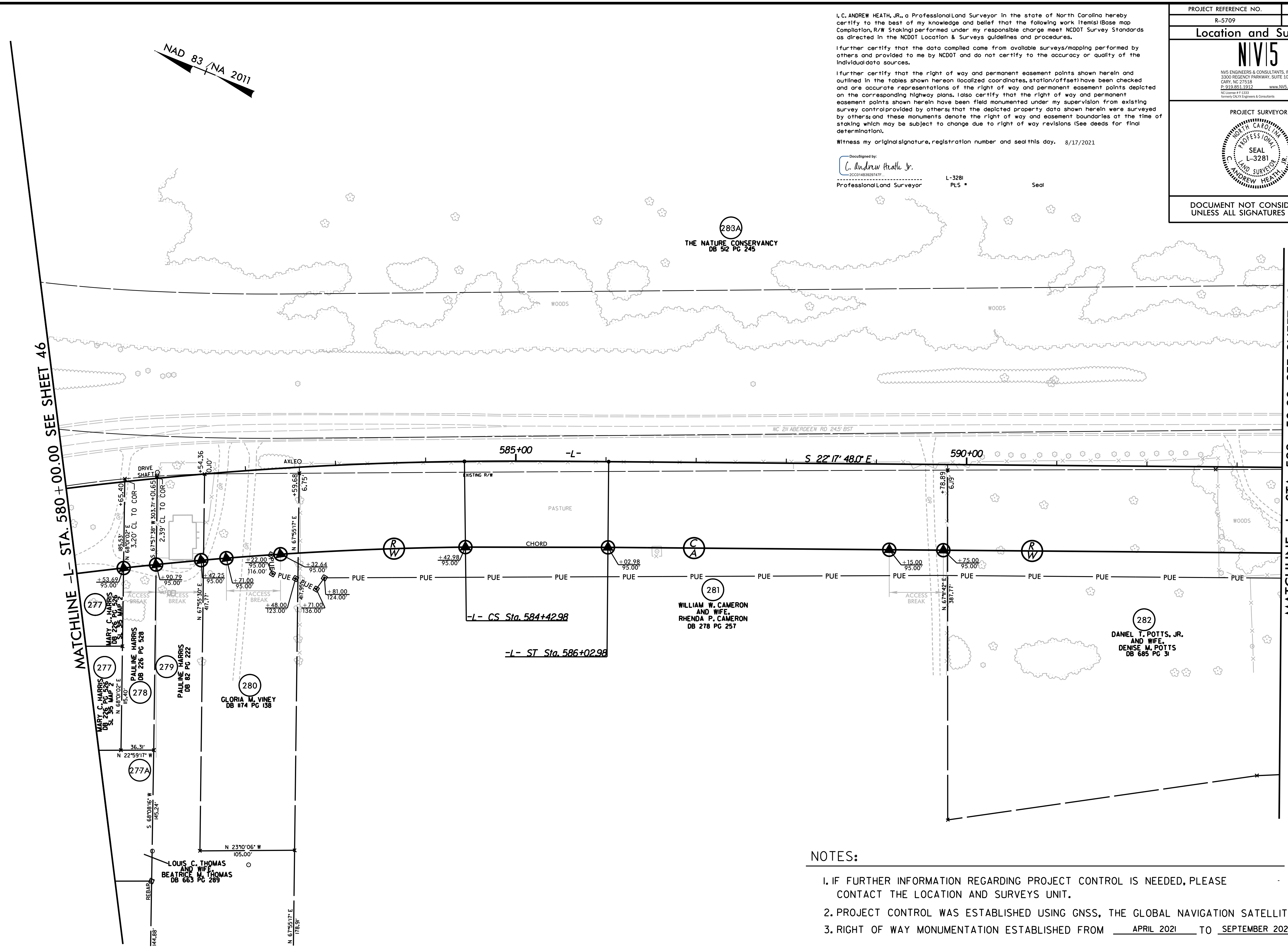
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REVISIONS

MATCHLINE -L- STA. 580+00.00 SEE SHEET 46

MATCHLINE -L- STA. 593+50.00 SEE SHEET 48

NAD 83 / NA 2011



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20001483929747F  
Professional Land Surveyor

L-3281  
PLS Seal

|   |                   |
|---|-------------------|
| PROJECT REFERENCE NO.<br>R-5709   | SHEET NO.<br>RW47 |
| <b>Location and Surveys</b>   |                   |
| <br>NIVIS ENGINEERS & CONSULTANTS, INC.<br>3300 REGENCY PARKWAY, SUITE 100<br>CHAR, NC 27518<br>P: 919.853.1912 www.NIVIS.com<br>NC License # F 5333<br>Services: Surveying, Engineering & Consulting |                   |
| PROJECT SURVEYOR<br><br>SEAL<br>L-3281<br>ANDREW HEATH JR.  |                   |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED  |                   |

NOTES:

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- RIGHT OF WAY MONUMENTATION ESTABLISHED FROM APRIL 2021 TO SEPTEMBER 2021.



6/2/19

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REVISIONS

NAD 83 / NA 2011

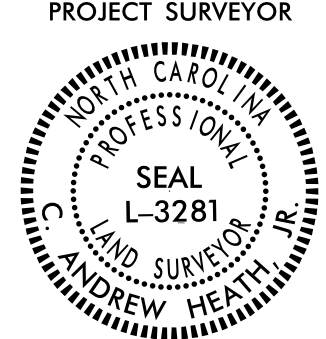
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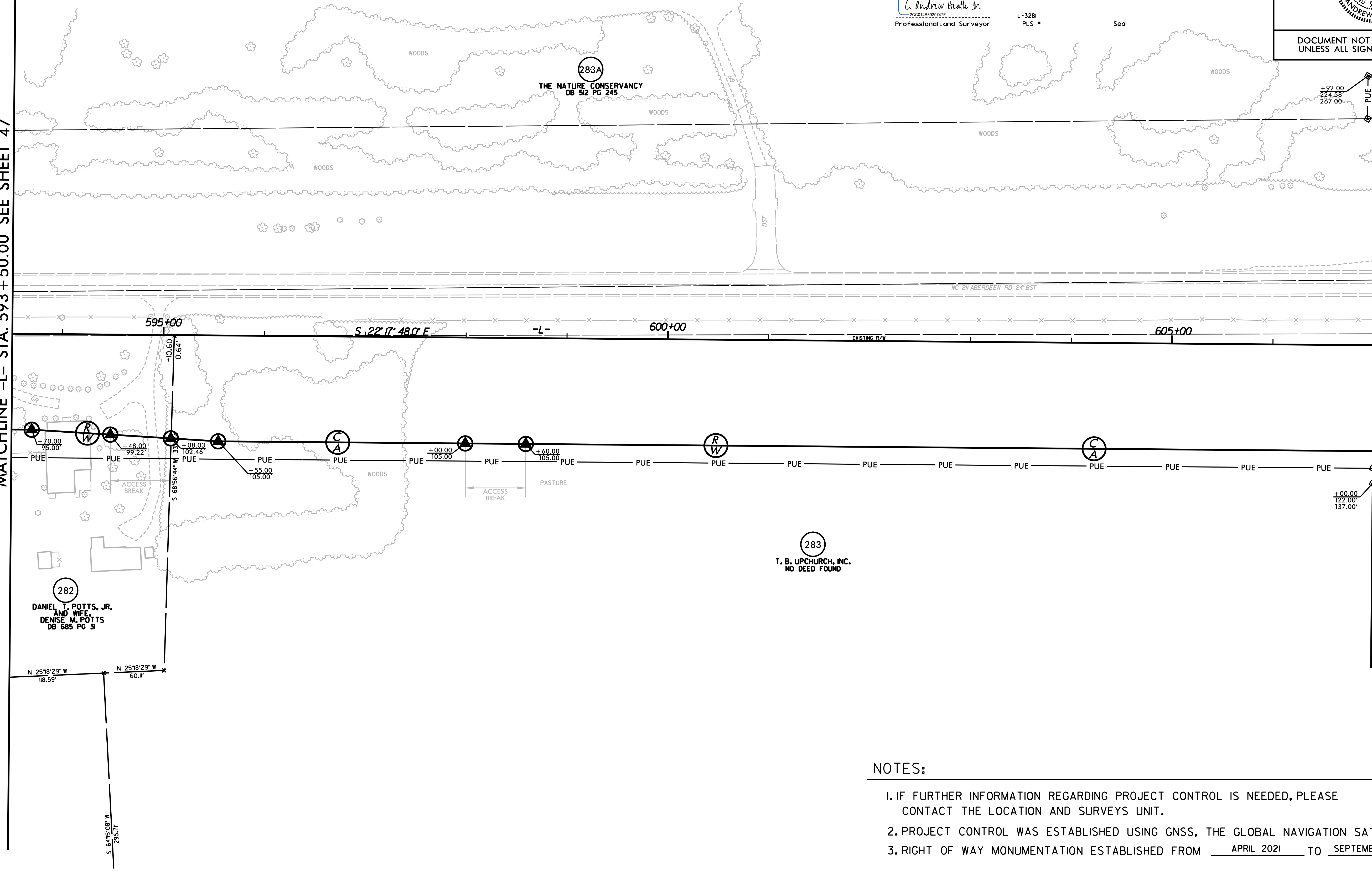
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DocuSigned by:  
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2CC014B3620747E  
Professional Land Surveyor L-3281 PLS Seal

|   |           |
|---|-----------|
| PROJECT REFERENCE NO.   | SHEET NO. |
| R-5709  | RW48      |
| <b>Location and Surveys</b>   |           |
| <b>NIV15</b>  |           |
| <small>NVS ENGINEERS &amp; CONSULTANTS, INC.<br/>3300 REGENCY PARKWAY, SUITE 100<br/>CARY, NC 27518<br/>P: 919.851.1912 www.NV15.com<br/>NC License # F 1533<br/>Formerly CIVIL Engineers &amp; Consultants</small> |           |
| PROJECT SURVEYOR  |           |
|    |           |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED  |           |

MATCHLINE -L- STA. 593 + 50.00 SEE SHEET 47

MATCHLINE -L- STA. 607 + 00.00 SEE SHEET 49



NOTES:

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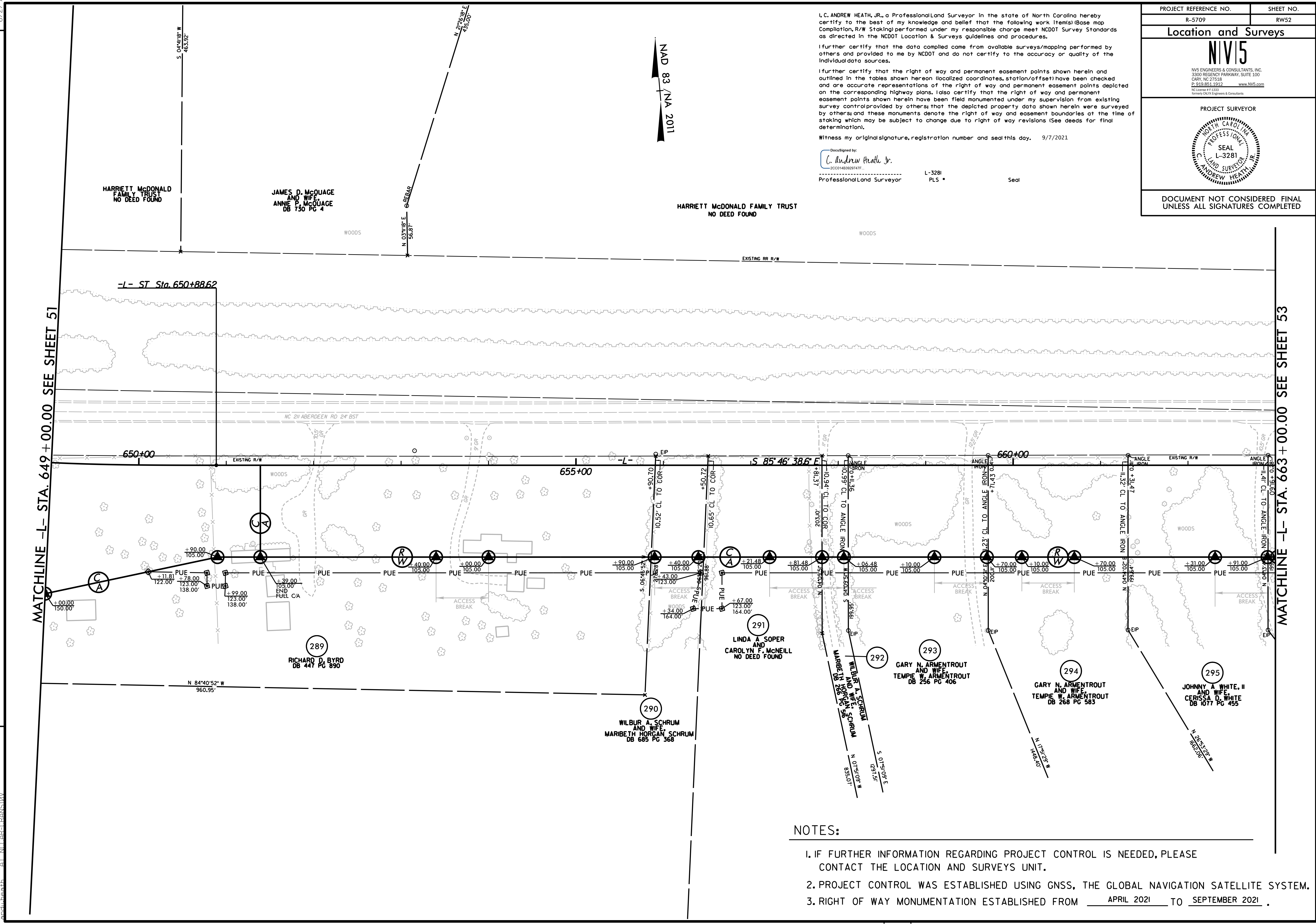


6/2/2019

REVISIONS

9/7/2021 - REVISED PER DIVISION L&S COMMENTS

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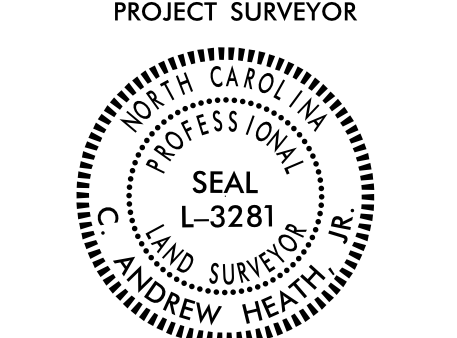
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|   |                   |
|---|-------------------|
| PROJECT REFERENCE NO.<br>R-5709   | SHEET NO.<br>RW52 |
| <b>Location and Surveys</b>   |                   |
| <br>NIVS ENGINEERS & CONSULTANTS, INC.<br>3300 REGENCY PARKWAY, SUITE 100<br>CARR, NC 27518<br>P: 919.851.1912 www.NIVS.com<br>NC License # F 5333<br>Formerly CIVIL Engineers & Consultants |                   |
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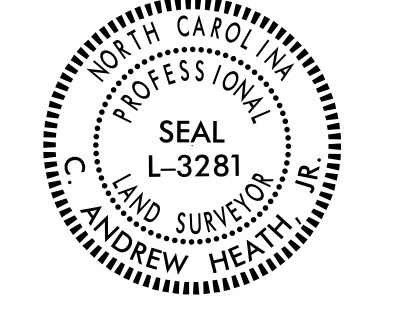
6/2/2019

Location and Surveys

# NIVIS

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 CARY, NC 27518  
 P: 919.851.1912 www.NIVIS.com  
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PROJECT SURVEYOR



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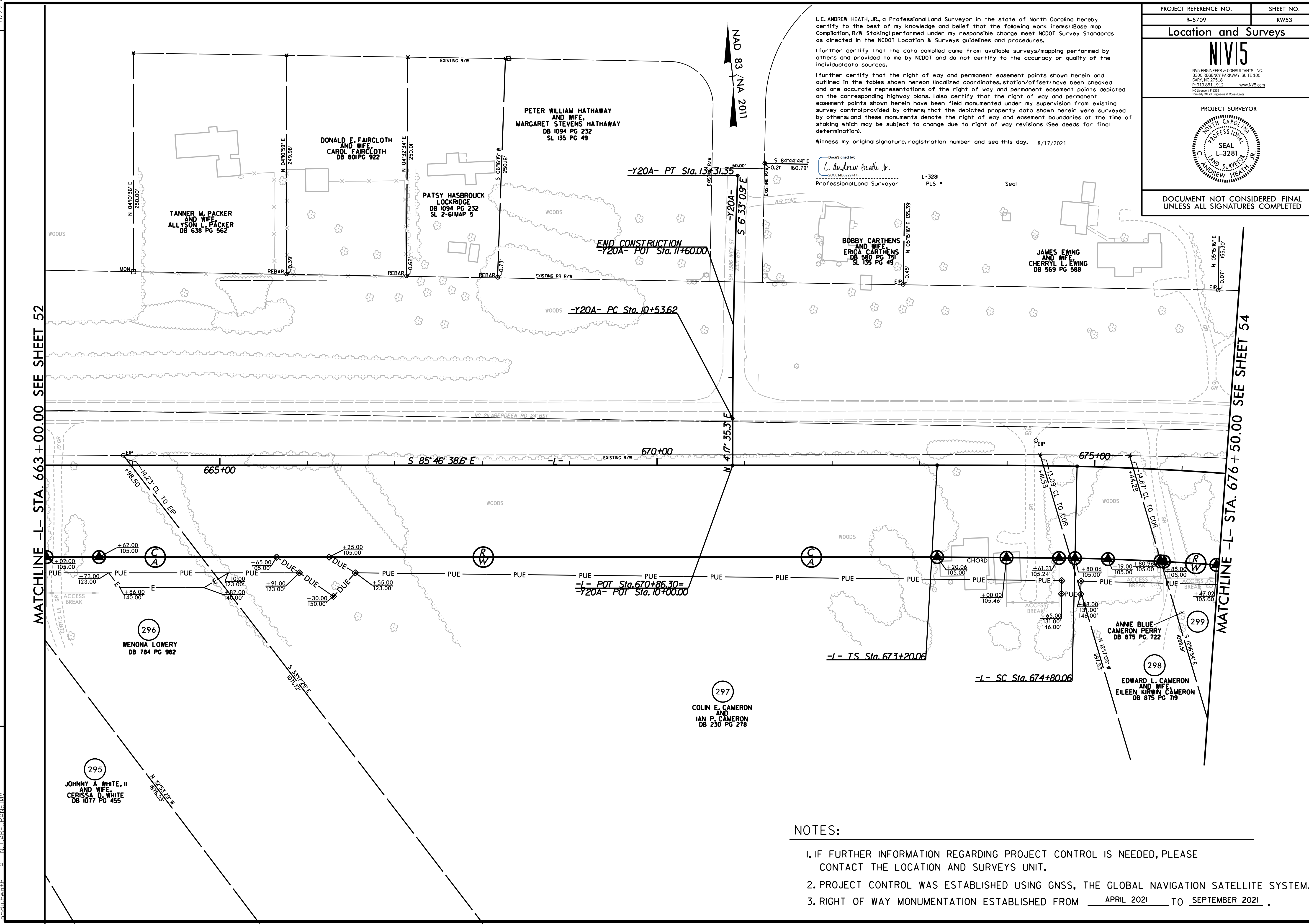
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Witness my original signature, registration number and seal this day, 8/17/2021

DocuSigned by:  
**L. Andrew Heath, Jr.**  
 200014839297477  
 Professional Land Surveyor L-3281 PLS \* Seal



MATCHLINE -L- STA. 663 + 00.00 SEE SHEET 52

MATCHLINE -L- STA. 676 + 50.00 SEE SHEET 54

REVISIONS

### NOTES:

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

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 L. Andrew Heath  
 8/17/2021 10:42 AM



6/2/19

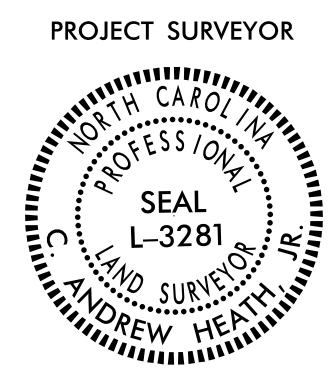
|   |           |
|---|-----------|
| PROJECT REFERENCE NO.   | SHEET NO. |
| R-5709  | RW54      |
| <b>Location and Surveys</b>   |           |
| <b>NIVIS</b>  |           |
| <small>NVS ENGINEERS &amp; CONSULTANTS, INC.<br/>         3300 REGENCY PARKWAY, SUITE 100<br/>         CARY, NC 27518<br/>         P: 919.853.1912 www.NVIS.com<br/>         NC License # F-1333<br/>         Member NCEM Engineers &amp; Consultants</small> |           |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED  |           |

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.

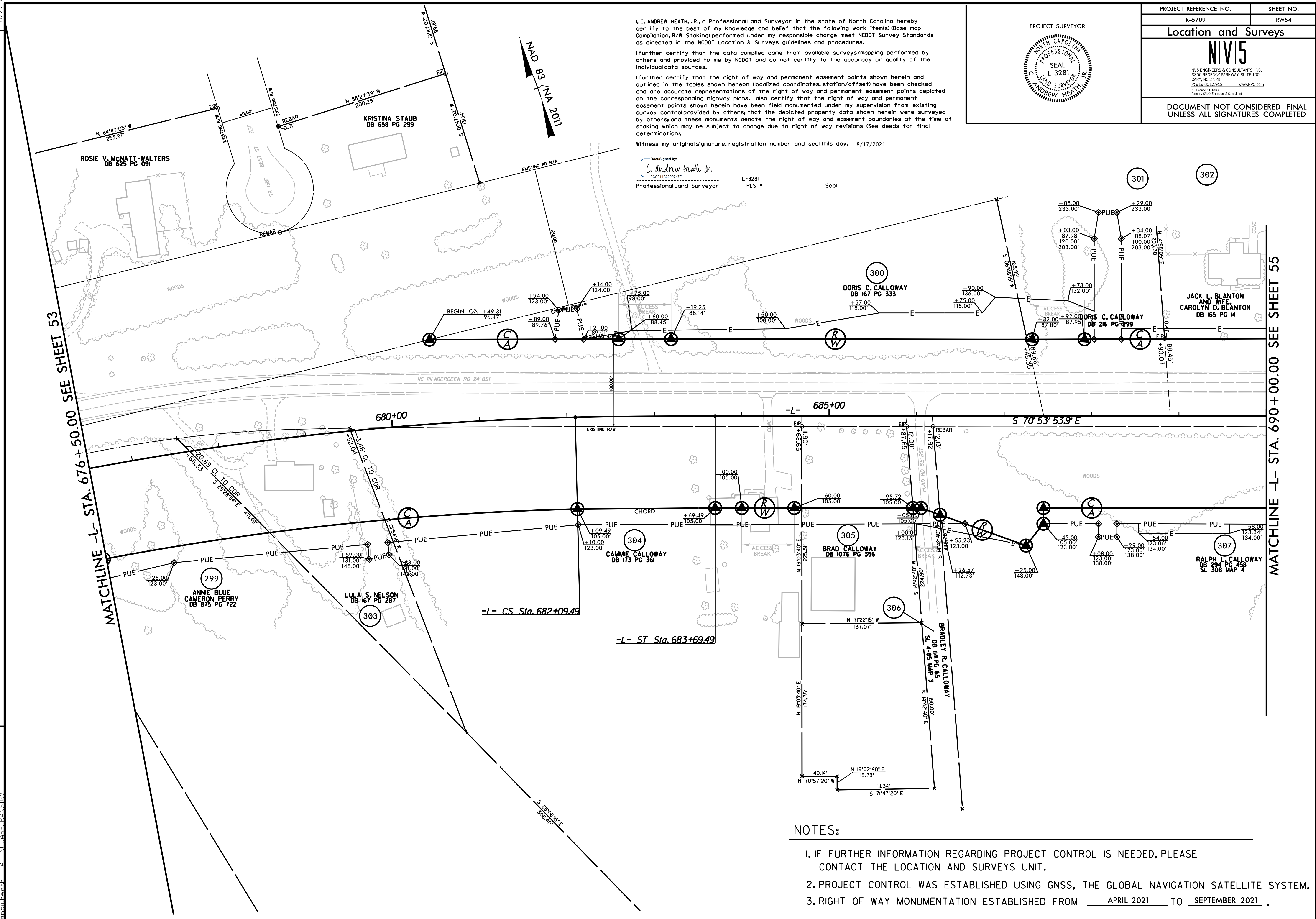
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Witness my original signature, registration number and seal this day. 8/17/2021



DocuSigned by:  
**C. Andrew Heath, Jr.**  
20201483929747F  
 Professional Land Surveyor L-3281 PLS Seal



REVISIONS

MATCHLINE -L- STA. 676 + 50.00 SEE SHEET 53

MATCHLINE -L- STA. 690 + 00.00 SEE SHEET 55

NOTES:

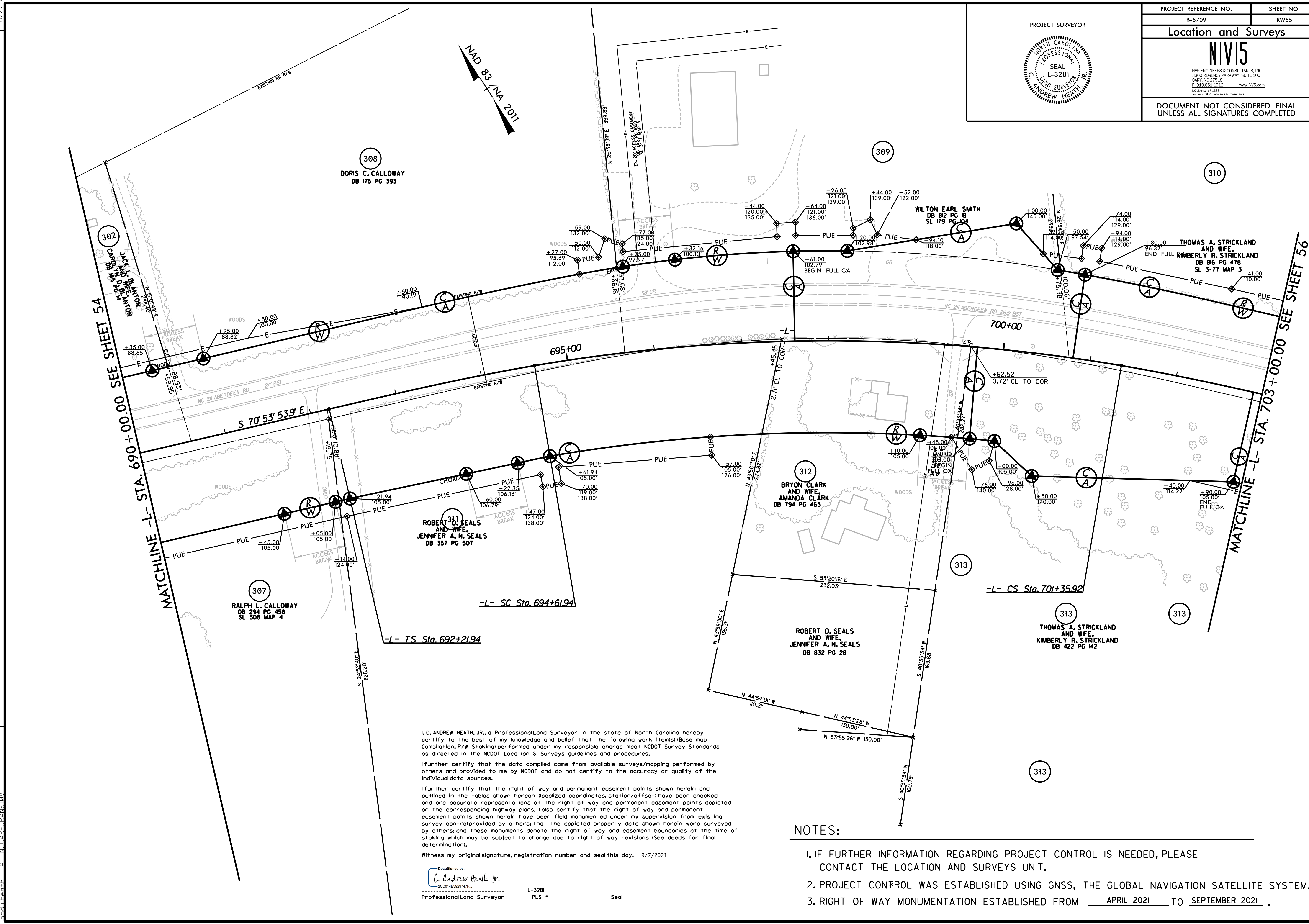
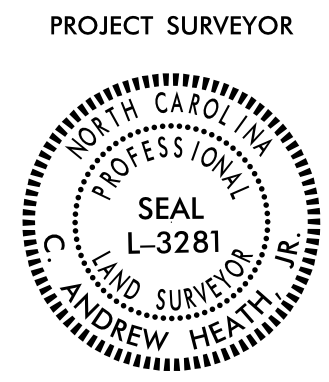
- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- RIGHT OF WAY MONUMENTATION ESTABLISHED FROM APRIL 2021 TO SEPTEMBER 2021.

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 andheath



6/2/09

|   |           |
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| PROJECT REFERENCE NO.   | SHEET NO. |
| R-5709  | RW55      |
| <b>Location and Surveys</b>   |           |
| <b>NIVIS</b>  |           |
| <small>NVIS ENGINEERS &amp; CONSULTANTS, INC.<br/>         3300 REGENCY PARKWAY, SUITE 100<br/>         CARY, NC 27518<br/>         P: 919.853.1912 www.NVIS.com<br/>         NC License # F 1333<br/>         Andrew Heath, Professional Land Surveyor</small> |           |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED  |           |



REVISIONS  
 9/7/2021 - REVISED PER DIVISION L&S COMMENTS

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 Andrew Heath  
 L-3281

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.

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Witness my original signature, registration number and seal this day, 9/7/2021

DocuSigned by:  
**C. Andrew Heath Jr.**  
20001483202947F  
 Professional Land Surveyor

L-3281  
 PLS \* Seal

**NOTES:**

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



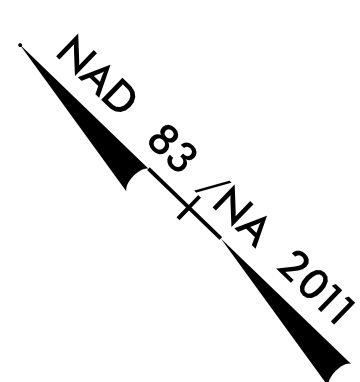
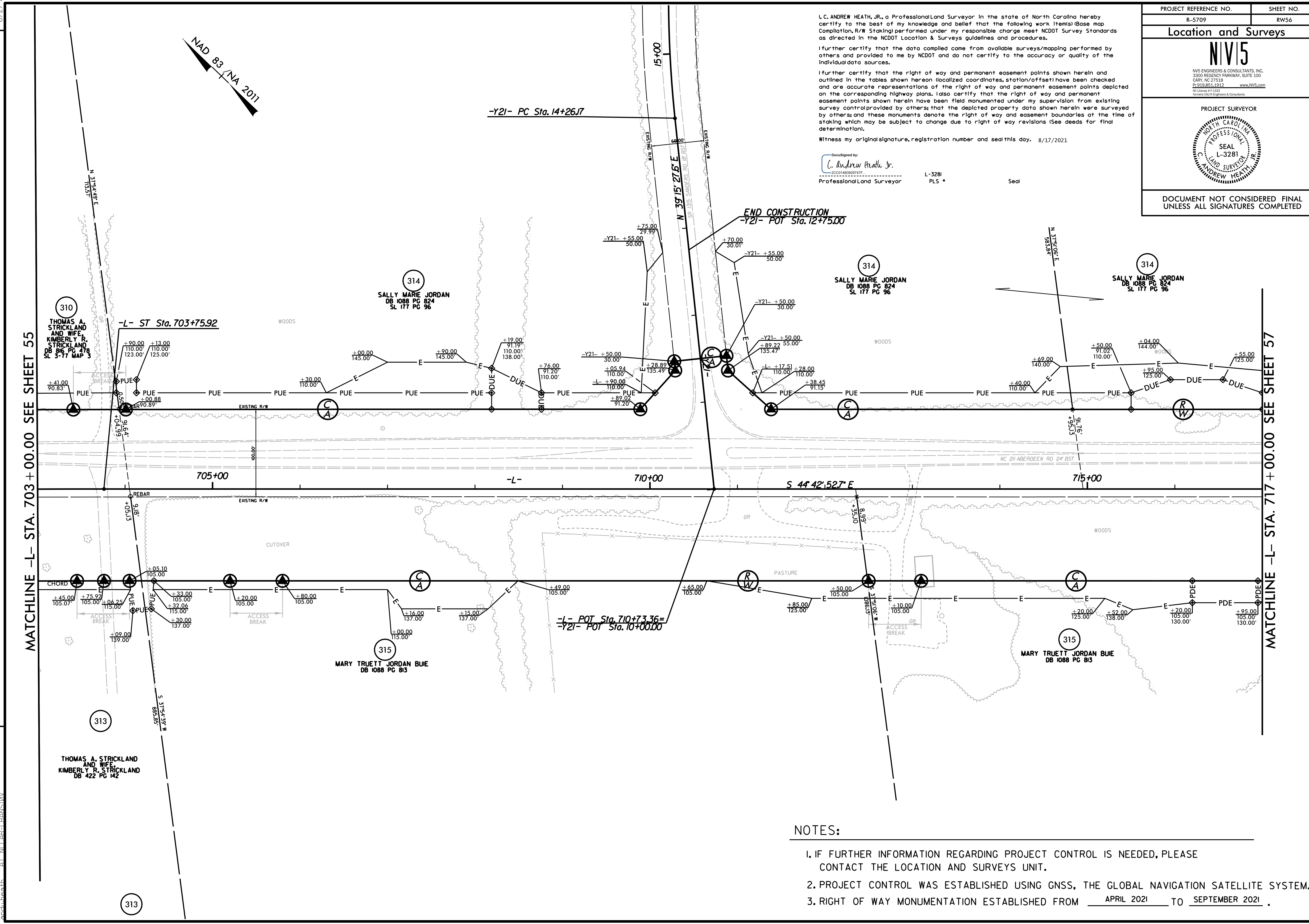
6/2/2019

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REVISIONS

MATCHLINE -L- STA. 703 + 00.00 SEE SHEET 55

MATCHLINE -L- STA. 717 + 00.00 SEE SHEET 57



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 Compilation, 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.  
Professional Land Surveyor L-3281 PLS Seal

|  |                   |
|--|-------------------|
| PROJECT REFERENCE NO.<br>R-5709  | SHEET NO.<br>RW56 |
| <b>Location and Surveys</b>  |                   |
|  |                   |
| <small>NVIS ENGINEERS &amp; CONSULTANTS, INC.<br/>3300 REGENCY PARKWAY, SUITE 100<br/>CARY, NC 27518<br/>P: 919.851.1912 www.nvis.com<br/>NC License # F 1313<br/>Formerly CIVIL Engineers &amp; Consultants</small> |                   |
| PROJECT SURVEYOR<br>   |                   |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED   |                   |

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

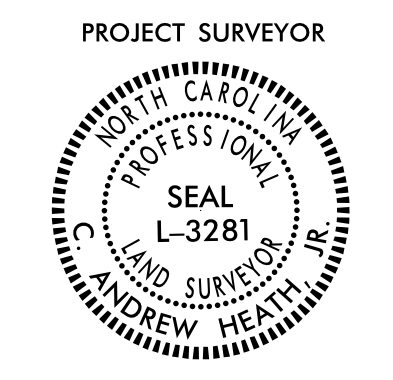






6/2/2019

Location and Surveys



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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.

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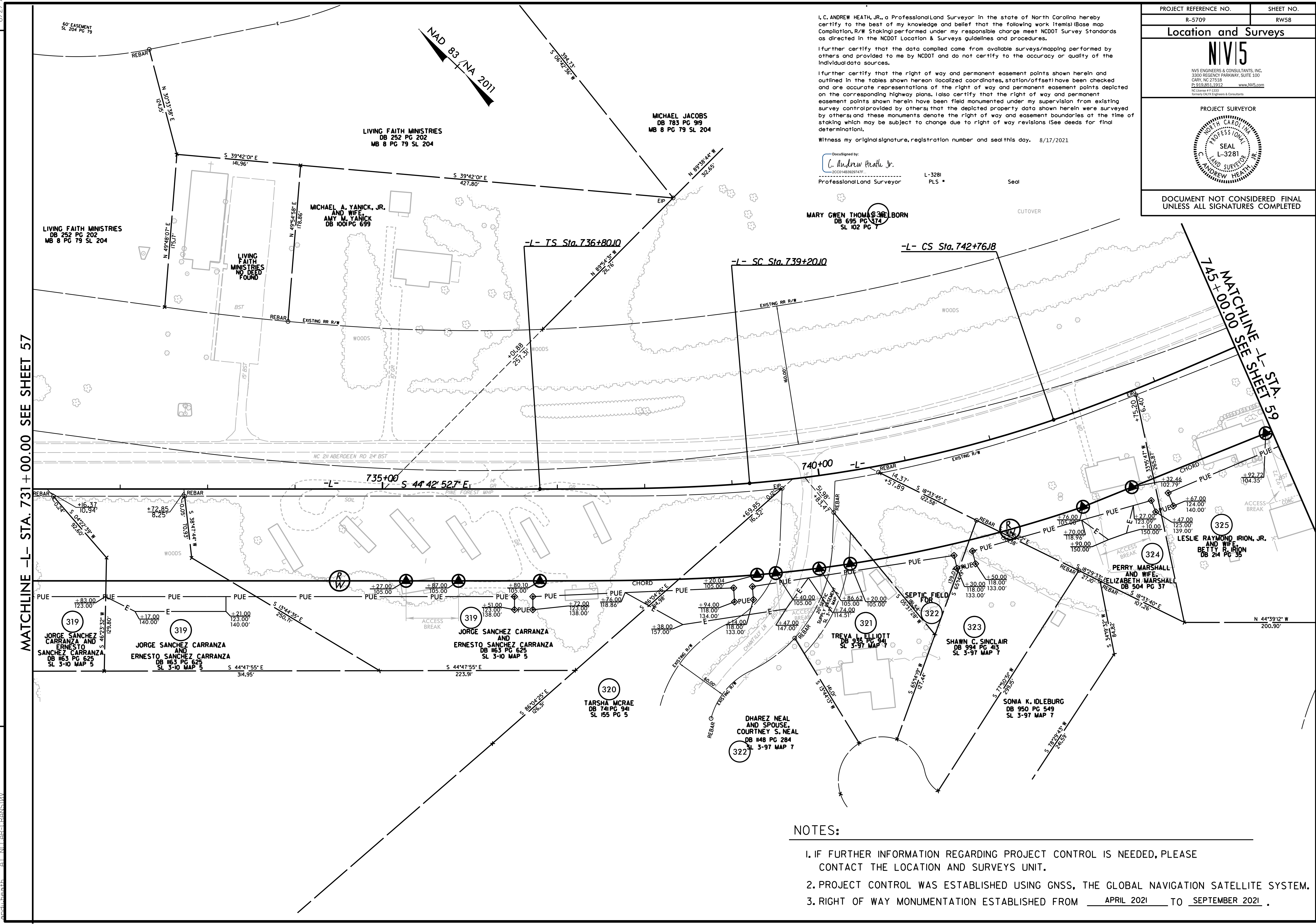
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Witness my original signature, registration number and seal this day, 8/17/2021

DocuSigned by:  
C. Andrew Heath, Jr.  
2020/08/29 09:24:27  
Professional Land Surveyor

L-3281  
PLS  
Seal

MARY GWEN THOMAS BORN  
DB 695 PG 374  
SL 102 PG 7



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.

REVISIONS

MATCHLINE -L- STA. 731+00.00 SEE SHEET 57

MATCHLINE -L- STA. 745+00.00 SEE SHEET 59

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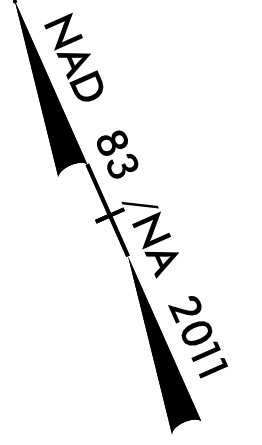
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REVISIONS

MATCHLINE -L- STA. 745 + 00.00 SEE SHEET 58

MATCHLINE -L- STA. 759 + 00.00 SEE SHEET 60



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.

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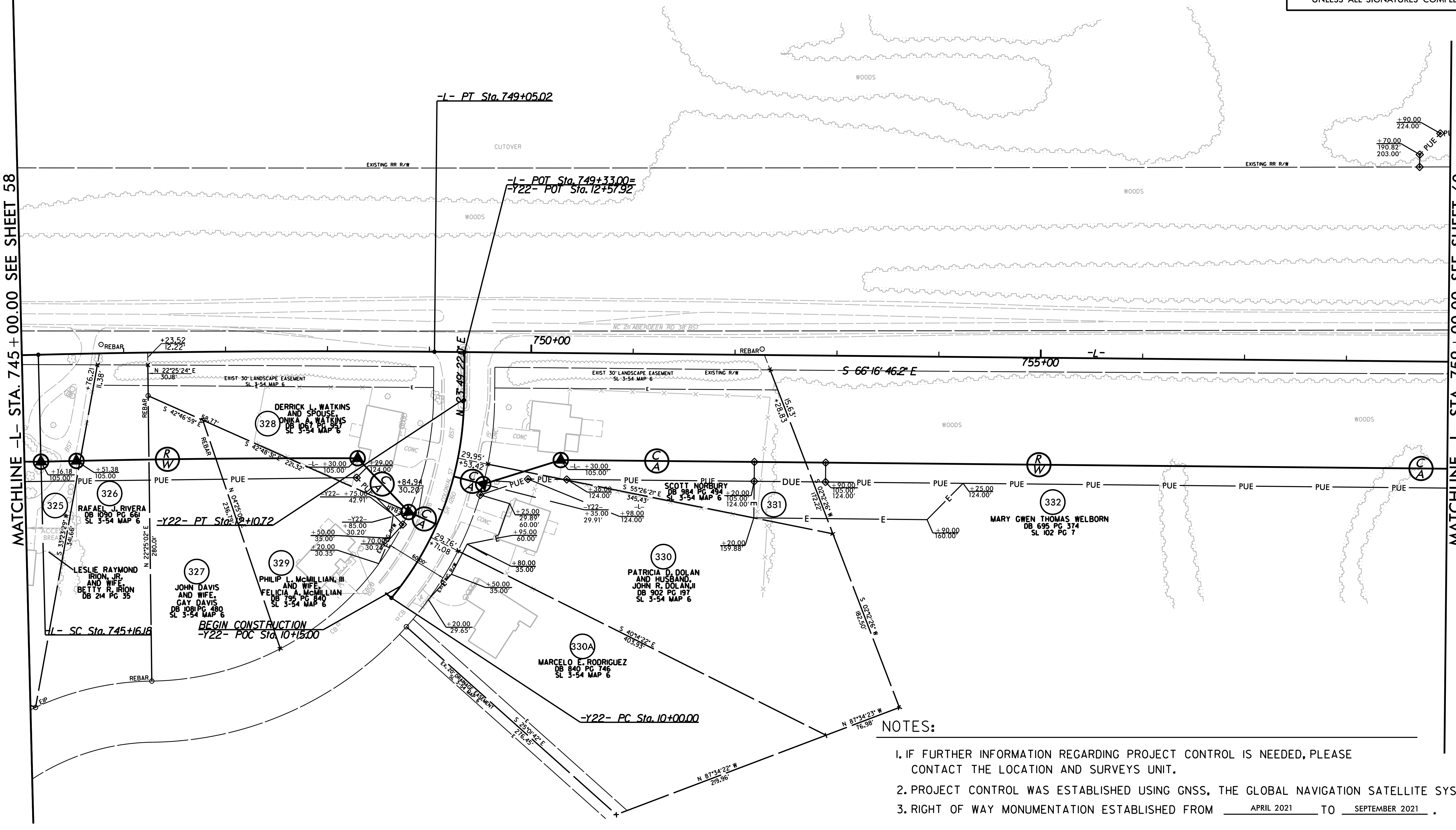
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Witness my original signature, registration number and seal this day, 8/17/2021

DocuSigned by:  
*C. Andrew Heath Jr.*  
2CC01483929747F  
Professional Land Surveyor L-3281 PLS Seal

|   |                   |
|---|-------------------|
| PROJECT REFERENCE NO.<br>R-5709   | SHEET NO.<br>RW59 |
| <b>Location and Surveys</b>   |                   |
| <b>NIVIS</b><br>NIVIS ENGINEERS & CONSULTANTS, INC.<br>3300 REGENCY PARKWAY, SUITE 100<br>CARY, NC 27518<br>P: 919.851.1912 www.NIVIS.com<br>NC License # F-1333<br>Surveying & Engineering & Consultants |                   |
| PROJECT SURVEYOR<br>  |                   |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED  |                   |

332  
MARY GWEN THOMAS WELBORN  
DB 695 PG 374  
SL 102 PG 7



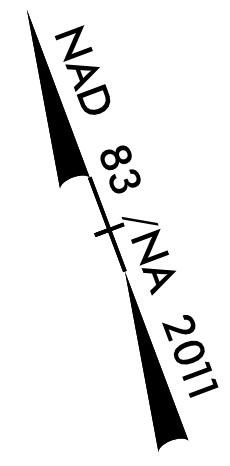
- NOTES:
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
  2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
  3. RIGHT OF WAY MONUMENTATION ESTABLISHED FROM APRIL 2021 TO SEPTEMBER 2021 .



6/2/09

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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 item(s) (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.

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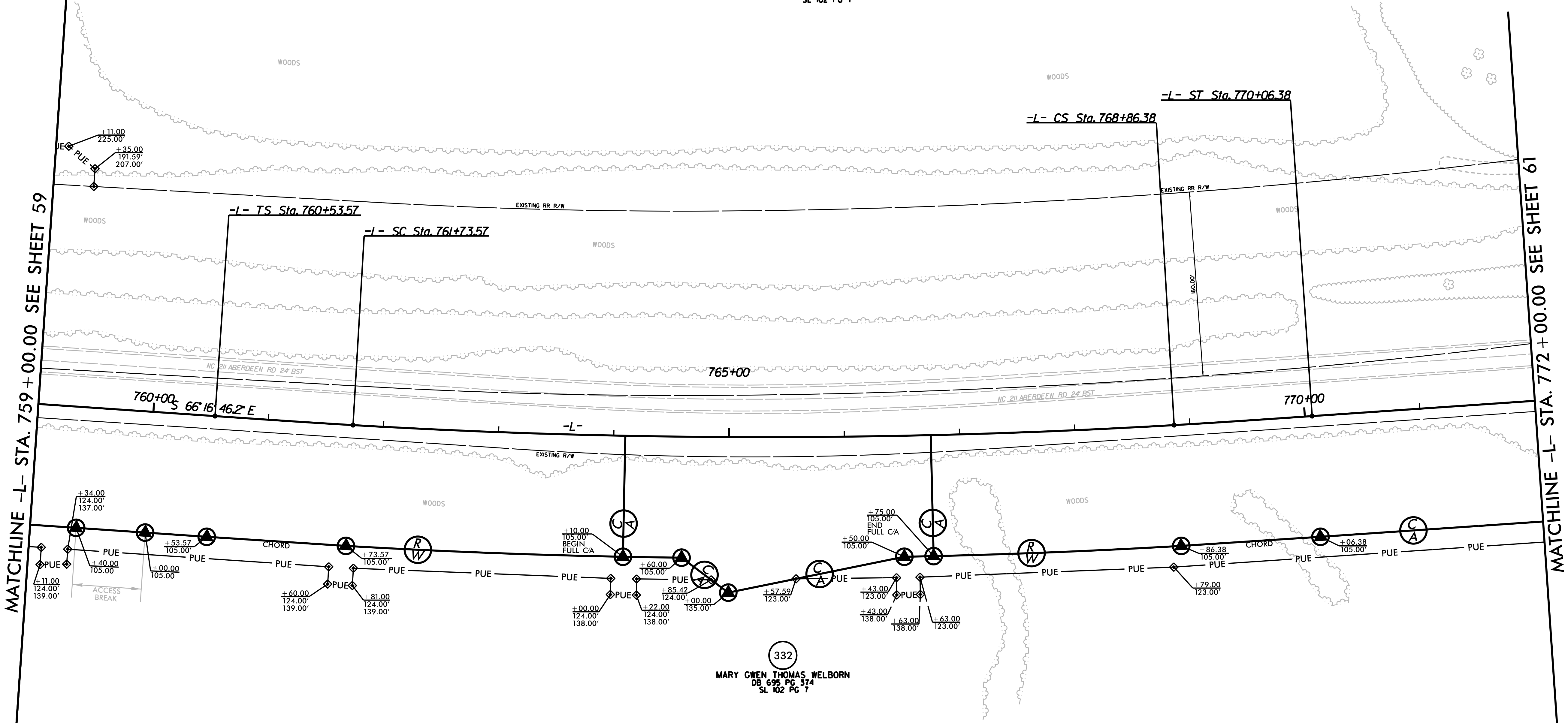
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Witness my original signature, registration number and seal this day, 8/17/2021

Designed by:  
*C. Andrew Heath Jr.*  
Professional Land Surveyor L-3281 PLS Seal

|   |                   |
|---|-------------------|
| PROJECT REFERENCE NO.<br>R-5709   | SHEET NO.<br>RW60 |
| <b>Location and Surveys</b>   |                   |
| INSERT CONSULTANT'S NAME<br><b>NIVIS</b>  |                   |
| <small>NIVIS ENGINEERS &amp; CONSULTANTS, INC.<br/>3300 REGENCY PARKWAY, SUITE 100<br/>CARY, NC 27518<br/>P. 919.851.1912 www.NIVIS.com<br/>NC License # F-5303<br/>Surveying/OLW Engineers &amp; Consultants</small> |                   |
| PROJECT SURVEYOR<br>  |                   |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED  |                   |

332  
MARY GWEN THOMAS WELBORN  
DB 695 PG 374  
SL 102 PG 7



332  
MARY GWEN THOMAS WELBORN  
DB 695 PG 374  
SL 102 PG 7

NOTES:

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3. RIGHT OF WAY MONUMENTATION ESTABLISHED FROM APRIL 2021 TO SEPTEMBER 2021.



6/2/2019


|                       |           |
|-----------------------|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| R-5709                | RW61      |

**Location and Surveys**

**NIVIS**

NIVS ENGINEERS & CONSULTANTS, INC.  
3300 REGENCY PARKWAY, SUITE 100  
CARY, NC 27518  
P: 919.851.1912 www.NIVS.com  
NC License # F-5333  
Surveying & Engineering & Consultants

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

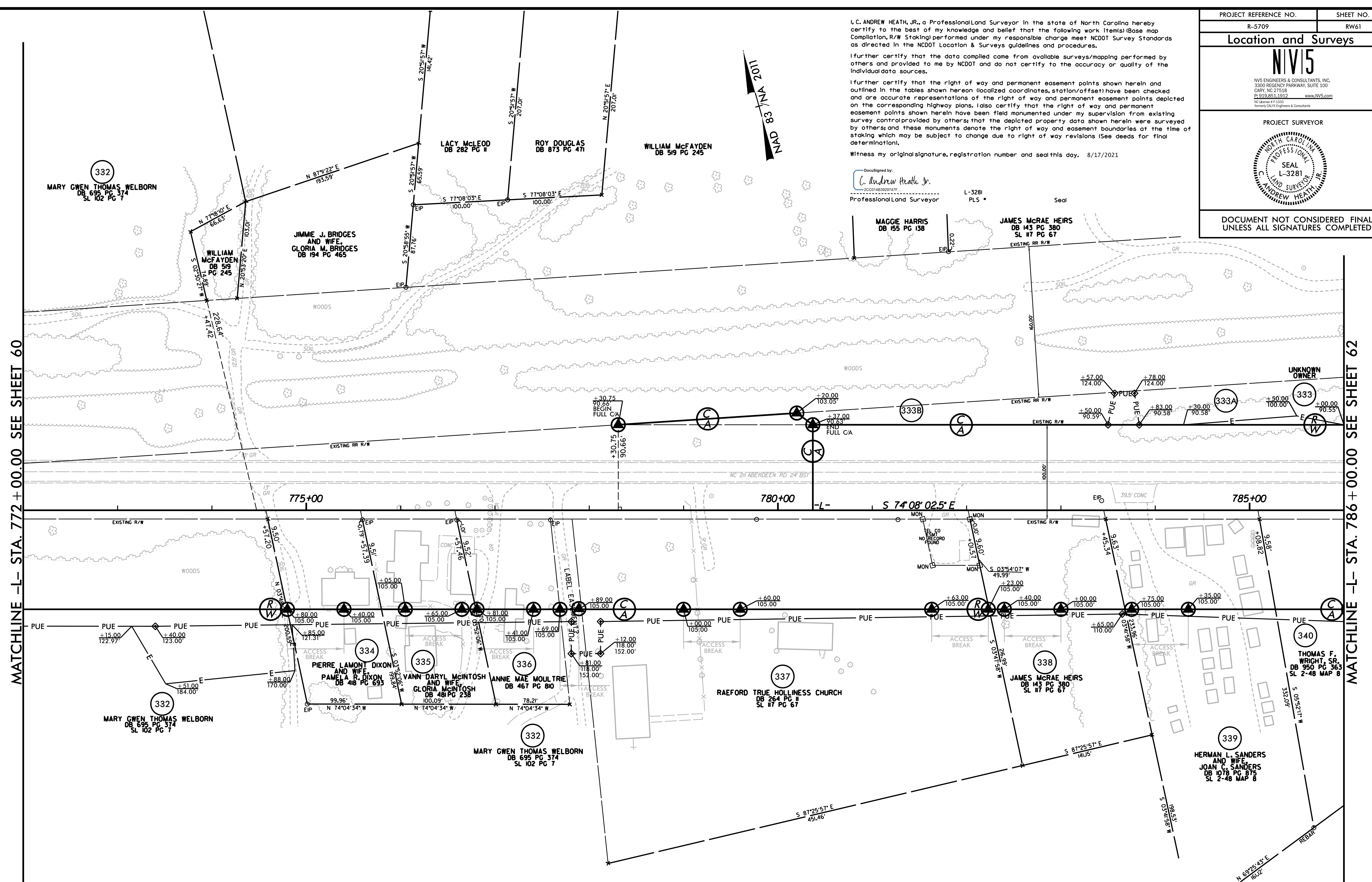
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Witness my original signature, registration number and seal this day, 8/17/2021

DocuSigned by:  
*L. Andrew Heath, Jr.*  
Professional Land Surveyor L-3281 PLS Seal



MATCHLINE -L- STA. 772 + 00.00 SEE SHEET 60

MATCHLINE -L- STA. 786 + 00.00 SEE SHEET 62

**NOTES:**

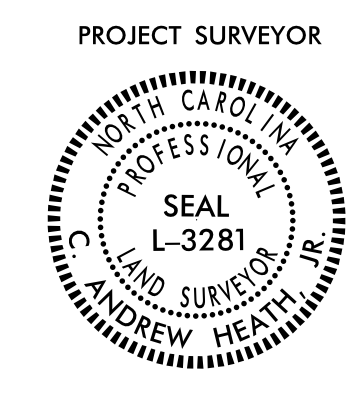
- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- RIGHT OF WAY MONUMENTATION ESTABLISHED FROM APRIL 2021 TO SEPTEMBER 2021.

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 L. Andrew Heath  
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6/2/09

|  |           |
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| PROJECT REFERENCE NO.  | SHEET NO. |
| R-5709   | RW62      |
| <b>Location and Surveys</b>  |           |
| <b>NIVIS</b>   |           |
| <small>NIVIS ENGINEERS &amp; CONSULTANTS, INC.<br/>         3300 REGENCY PARKWAY, SUITE 100<br/>         CARY, NC 27518<br/>         P: 919.851.1912 www.NIVIS.com<br/>         NC License # F-1333<br/>         Member NCEM Engineers &amp; Consultants</small> |           |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED   |           |



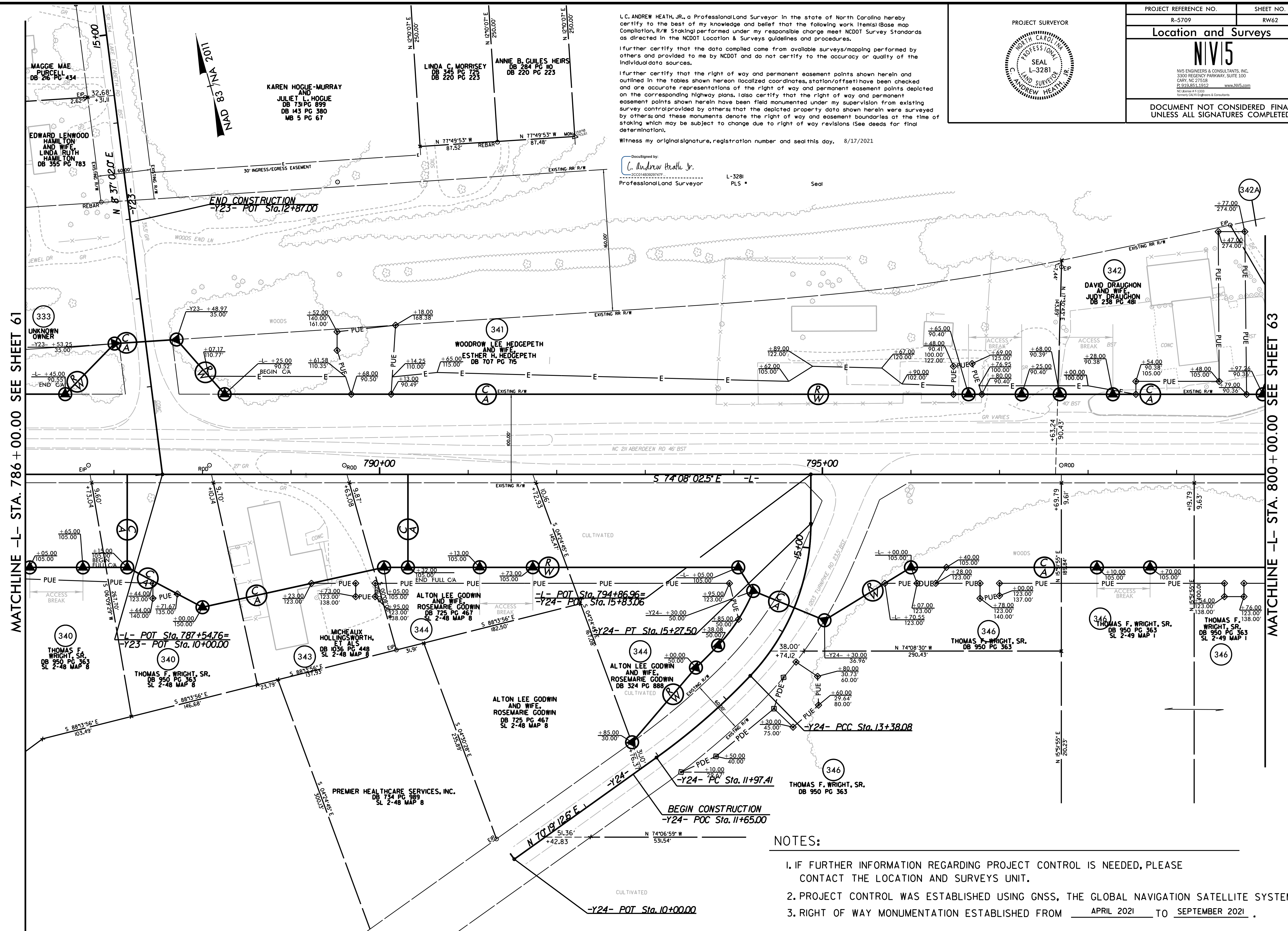
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Witness my original signature, registration number and seal this day, 8/17/2021

DocuSigned by:  
*C. Andrew Heath, Jr.*  
 Professional Land Surveyor L-3281 PLS Seal



- NOTES:**
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  - PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
  - RIGHT OF WAY MONUMENTATION ESTABLISHED FROM APRIL 2021 TO SEPTEMBER 2021.

REVISIONS

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 6/2/09  
 C:\Users\candheath\Documents\151\2021014\_20\SURV\w...sheets\R-5709\1s\_rw62.dgn  
 6/2/09



6/2/09

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

DocuSigned by:  
C. Andrew Heath, Jr.  
202108180929477  
Professional Land Surveyor

L-3281  
PLS # Seal

MATCHLINE A SEE INSET A SHEET 72

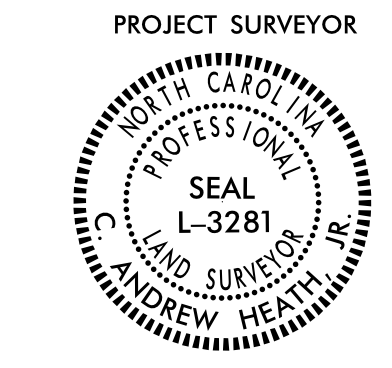
PROJECT REFERENCE NO. SHEET NO.

R-5709 RW63

Location and Surveys

NIVIS

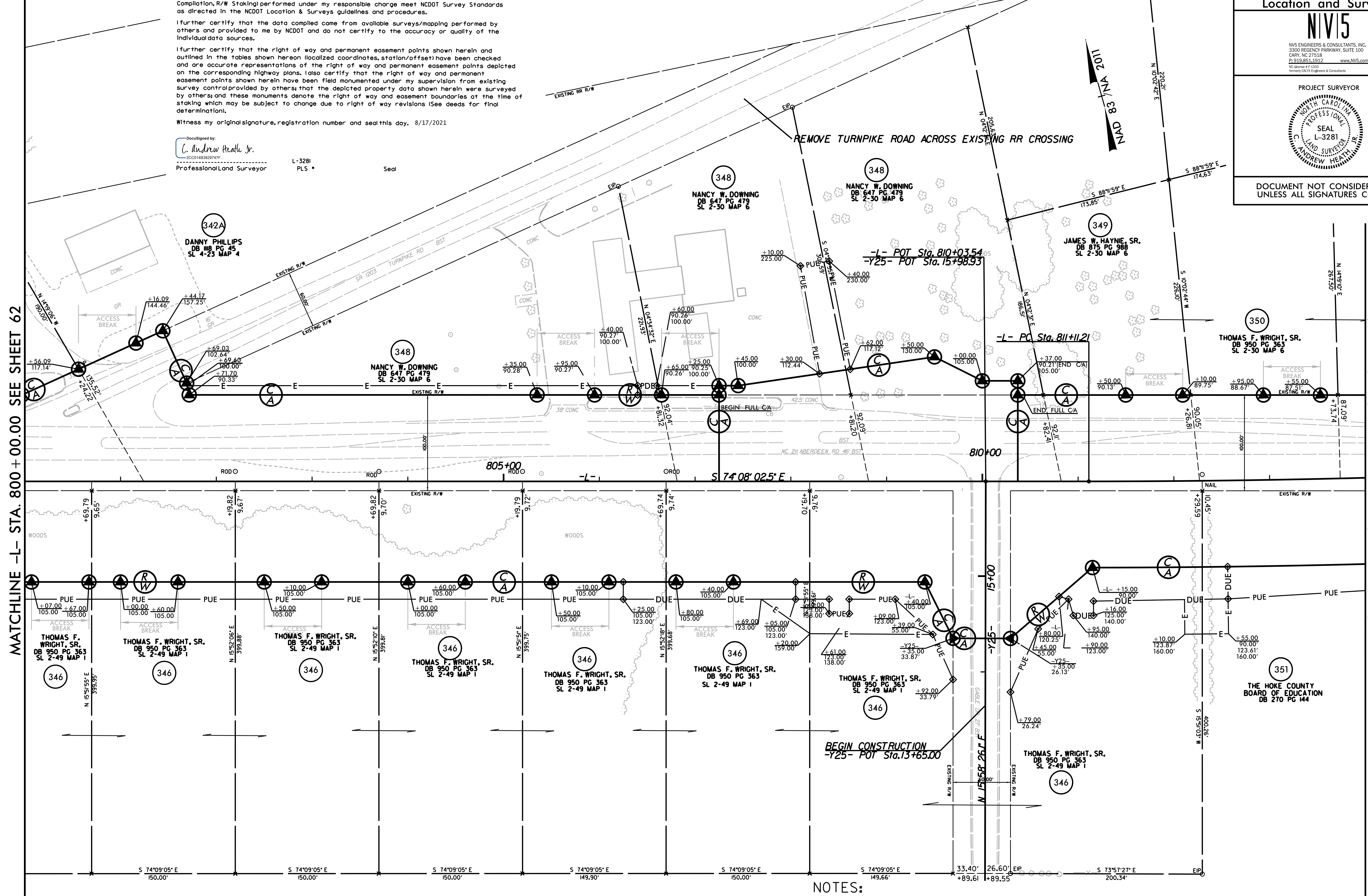
NVIS ENGINEERS & CONSULTANTS, INC.  
3300 REGENCY PARKWAY, SUITE 100  
CARY, NC 27518  
P: 919.881.1912 www.NVIS.com  
NC License # F 1333  
Surveyor (PLS) Engineers & Consultants



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MATCHLINE -L- STA. 800 + 00.00 SEE SHEET 62

MATCHLINE -L- STA. 814 + 00.00 SEE SHEET 64



REVISIONS


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THOMAS F. WRIGHT, SR.  
DB 950 PG 363  
SL 4-23 MAP 5

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.




|  |           |
|--|-----------|
| PROJECT REFERENCE NO.  | SHEET NO. |
| R-5709   | RW64      |
| <b>Location and Surveys</b>  |           |
| <b>NIVIS</b>   |           |
| <small>NIVIS ENGINEERS &amp; CONSULTANTS, INC.<br/>         3300 REGENCY PARKWAY, SUITE 100<br/>         CARY, NC 27518<br/>         P: 919.851.1912<br/>         www.NIVIS.com<br/>         NC License # F 1333<br/>         Member ICAEW Engineers &amp; Consultants</small> |           |
| PROJECT SURVEYOR   |           |
|   |           |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED   |           |

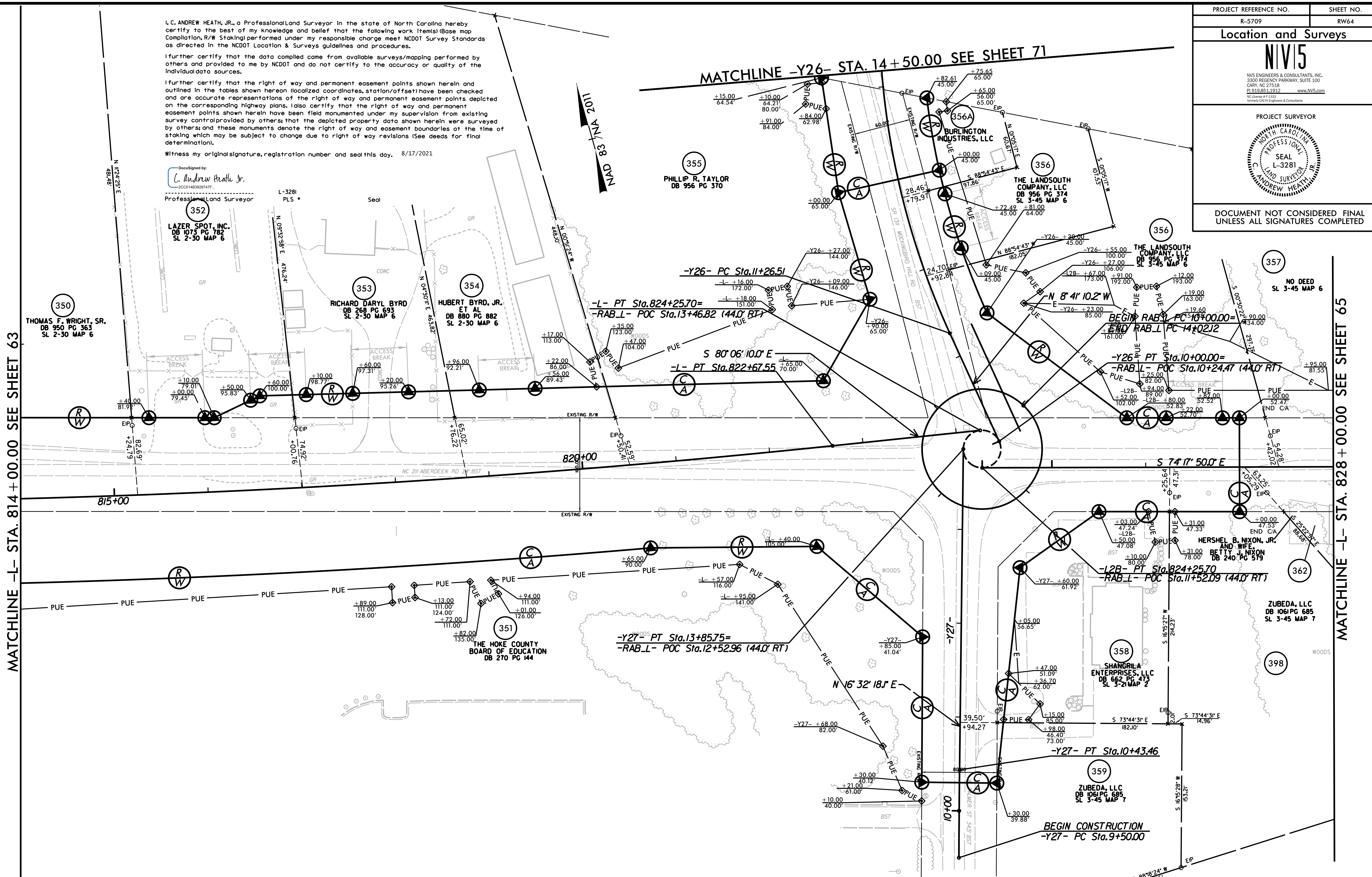
I, C. ANDREW HEATH, JR., a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work items (Base map compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location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

Designed by:  
  
 C. Andrew Heath, Jr.  
 20001483929747F  
 Professional Land Surveyor  
 L-3281 PLS \*



MATCHLINE -L- STA. 814+00.00 SEE SHEET 63

MATCHLINE -L- STA. 828+00.00 SEE SHEET 65


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

REVISIONS

6/2/19  
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 andheath



6/2/19

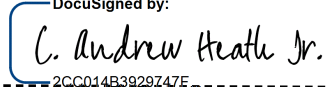
|  |           |
|--|-----------|
| PROJECT REFERENCE NO.  | SHEET NO. |
| R-5709   | RW65      |
| <b>Location and Surveys</b>  |           |
| <b>NIVIS</b>   |           |
| <small>NVIS ENGINEERS &amp; CONSULTANTS, INC.<br/>         3300 REGENCY PARKWAY, SUITE 100<br/>         CHRY, NC 27518<br/>         P: 919.851.1912 www.NVIS.com<br/>         NC License # F 1333<br/>         Member: NCEM, Engineers &amp; Consultants</small> |           |
| PROJECT SURVEYOR   |           |
|   |           |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED   |           |

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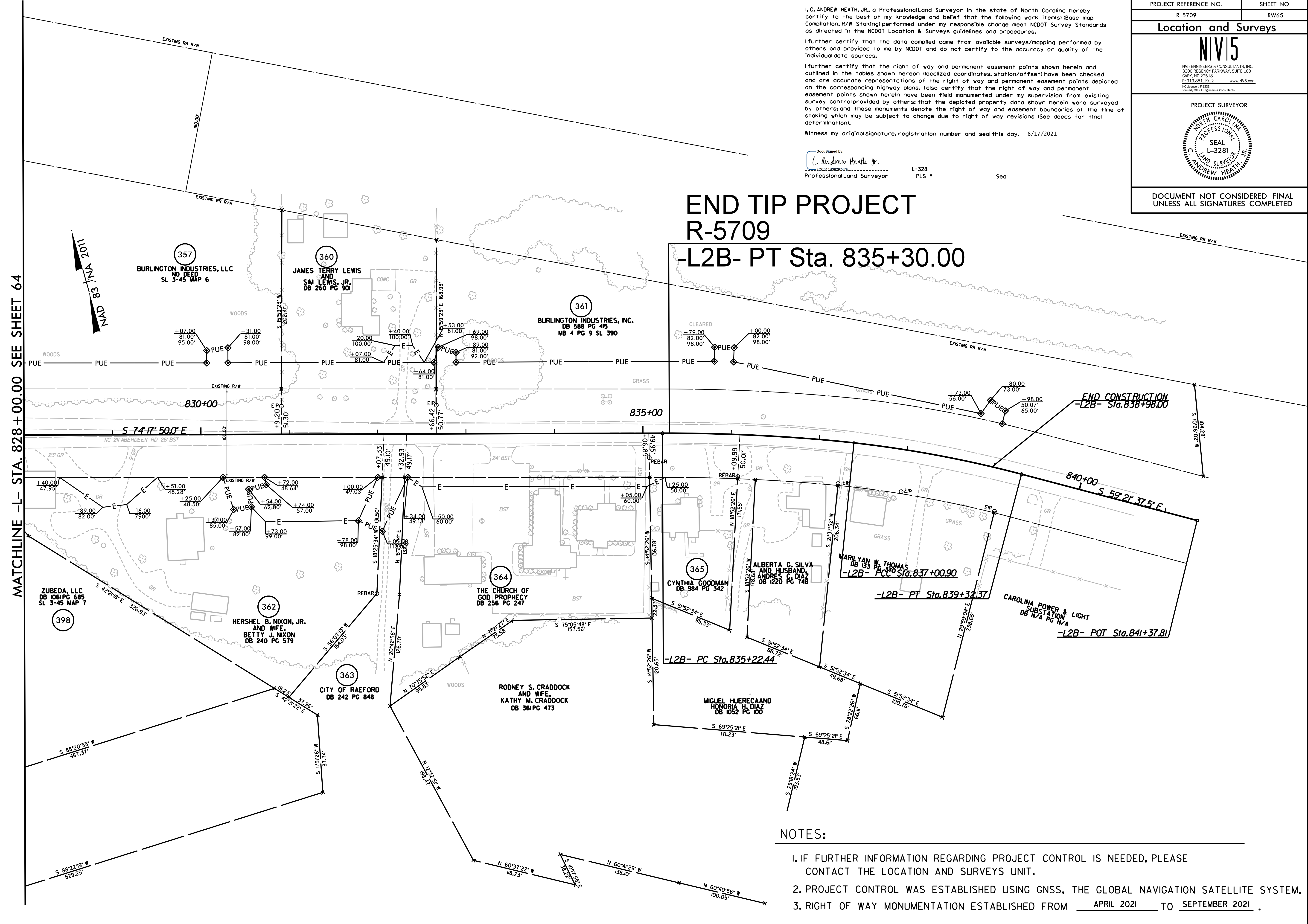
Witness my original signature, registration number and seal this day, 8/17/2021

Designed by:  
  
 L-3281  
 Professional Land Surveyor PLS Seal

# END TIP PROJECT

## R-5709

### -L2B- PT Sta. 835+30.00



MATCHLINE -L- STA. 828+00.00 SEE SHEET 64

REVISIONS

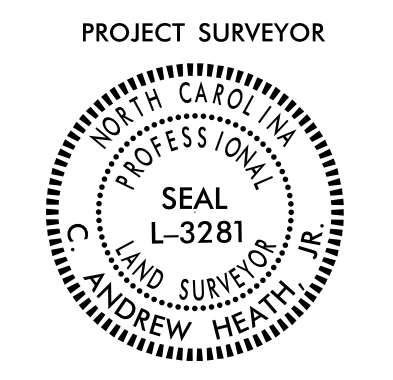
**NOTES:**

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

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 andrewh



Location and Surveys



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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.

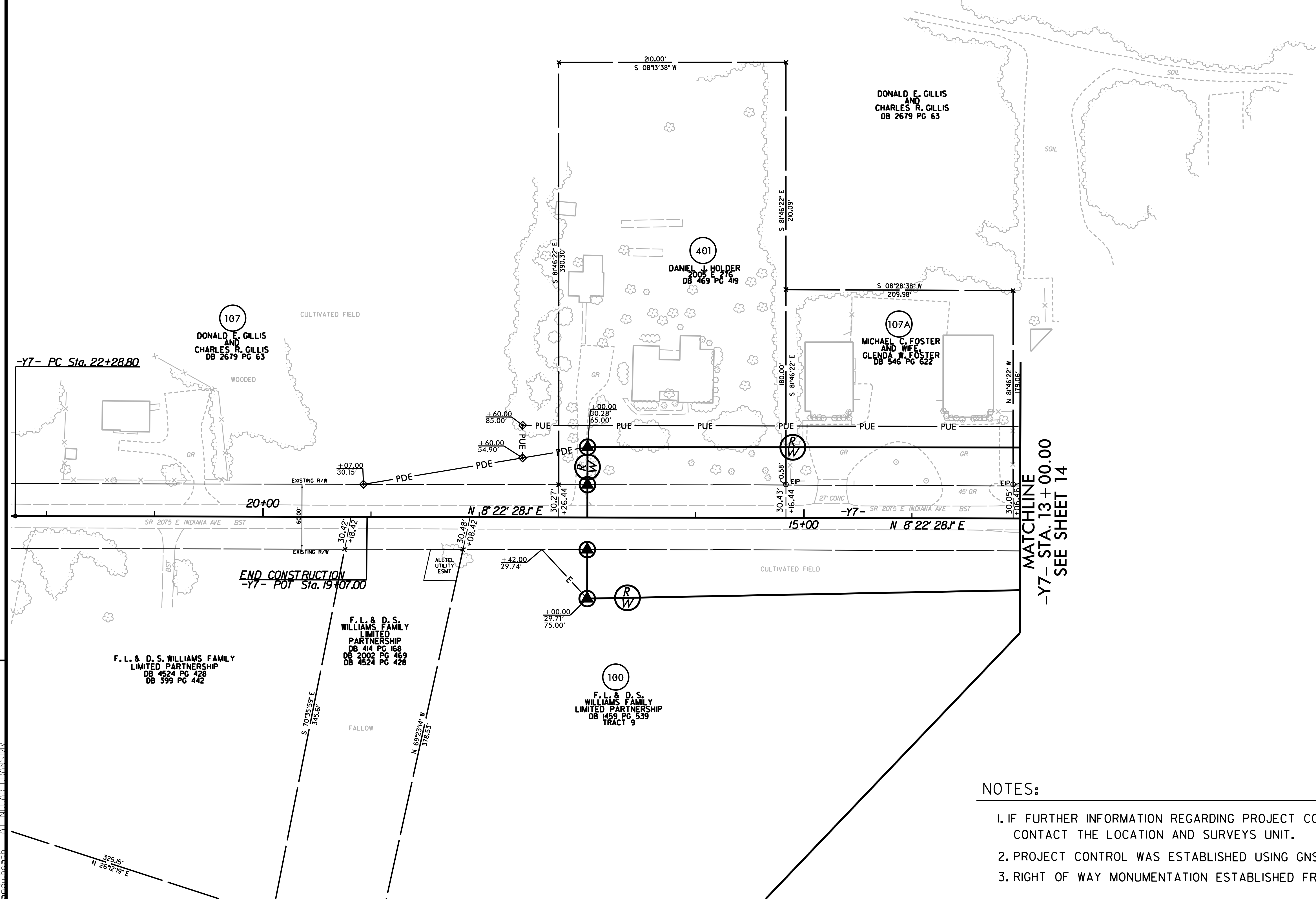
If further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

If 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 of 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. 9/7/2021

DocuSigned by:  
*C. Andrew Heath Jr.*  
 20014839297497  
 Professional Land Surveyor L-3281 PLS Seal

NAD 83 / NA 2011



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.

REVISIONS  
9/7/2021 - REVISED PER DIVISION L&S COMMENTS

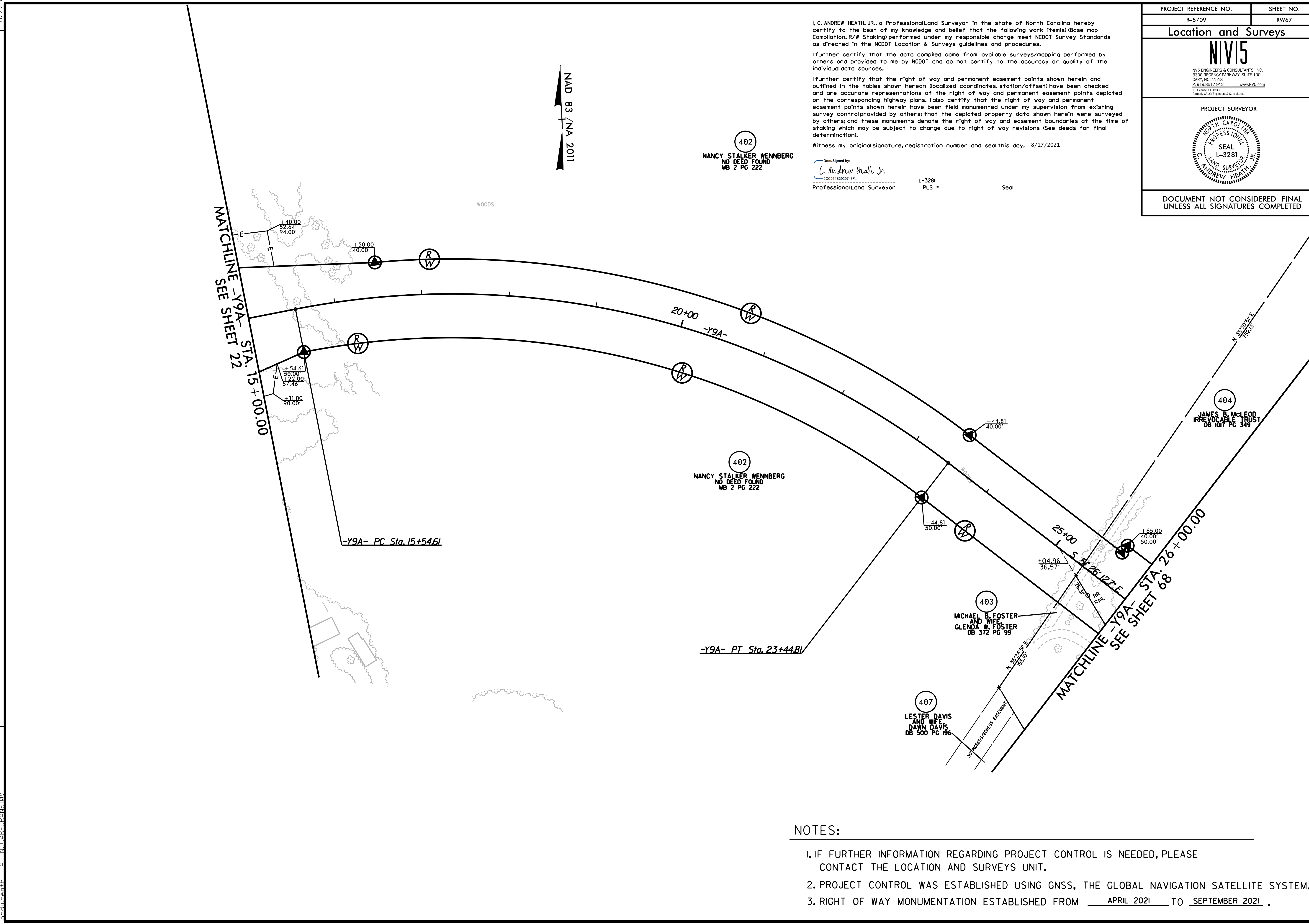
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6/2/19

REVISIONS

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6/2/19



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.

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

402  
NANCY STALKER WENNBERG  
NO DEED FOUND  
MB 2 PG 222

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

L-3281  
PLS  
Seal

|   |                   |
|---|-------------------|
| PROJECT REFERENCE NO.<br>R-5709   | SHEET NO.<br>RW67 |
| <b>Location and Surveys</b>   |                   |
| <br>NIVIS ENGINEERS & CONSULTANTS, INC.<br>3300 REGENCY PARKWAY, SUITE 100<br>CHRY, NC 27518<br>P: 919.851.1012 www.NIVIS.com<br><small>NC License # F 1533<br/>Member NCEM Engineers &amp; Consultants</small> |                   |
| PROJECT SURVEYOR  |                   |
|   |                   |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED  |                   |

**NOTES:**

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

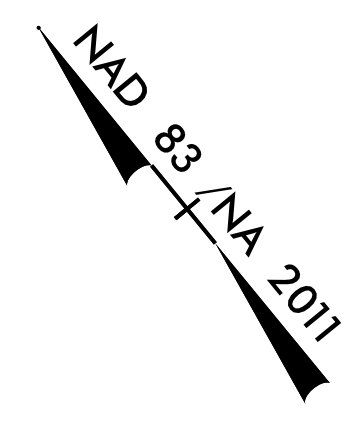


6/2/19

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6/2/2021 11:51 AM  
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REVISIONS

MATCHLINE -Y9A- STA. 26+00.00 SEE SHEET 67




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 (Bose map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

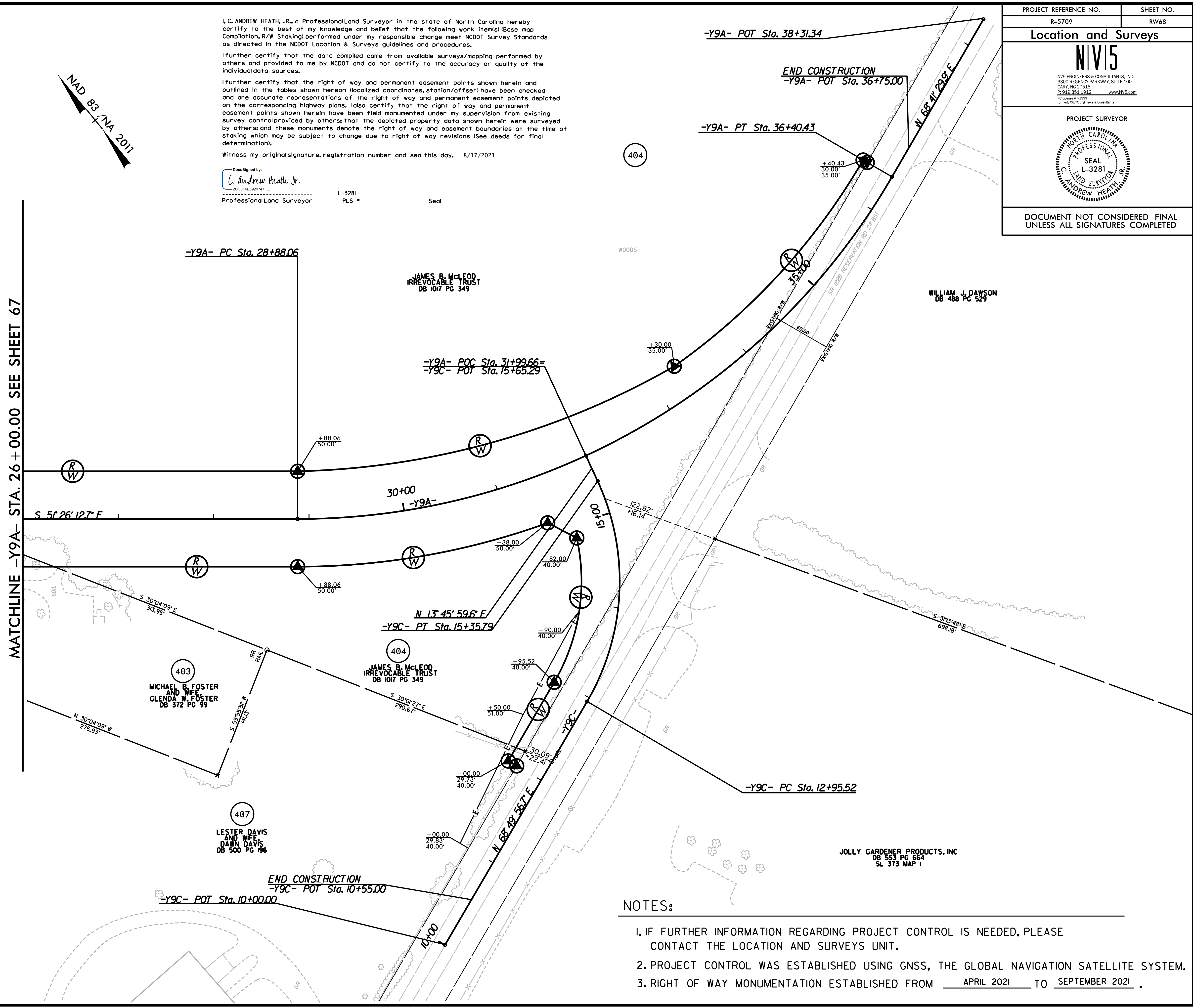
I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

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.  
202014839297477  
Professional Land Surveyor L-3281 PLS Seal

|   |                   |
|---|-------------------|
| PROJECT REFERENCE NO.<br>R-5709   | SHEET NO.<br>RW68 |
| <b>Location and Surveys</b>   |                   |
| <b>NIVIS</b><br>NIVIS ENGINEERS & CONSULTANTS, INC.<br>3300 REGENCY PARKWAY, SUITE 100<br>CARY, NC 27518<br>P: 919.851.1012 www.NIVIS.com<br>NC License # F 5333<br>Member NCEM Engineers & Consultants |                   |
| PROJECT SURVEYOR<br>   |                   |
| 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.



**Location and Surveys**

**NIVIS**  
 NVS ENGINEERS & CONSULTANTS, INC.  
 3300 REGENCY PARKWAY, SUITE 100  
 CARY, NC 27518  
 P: 919.853.1912 www.NVIS.com

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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.

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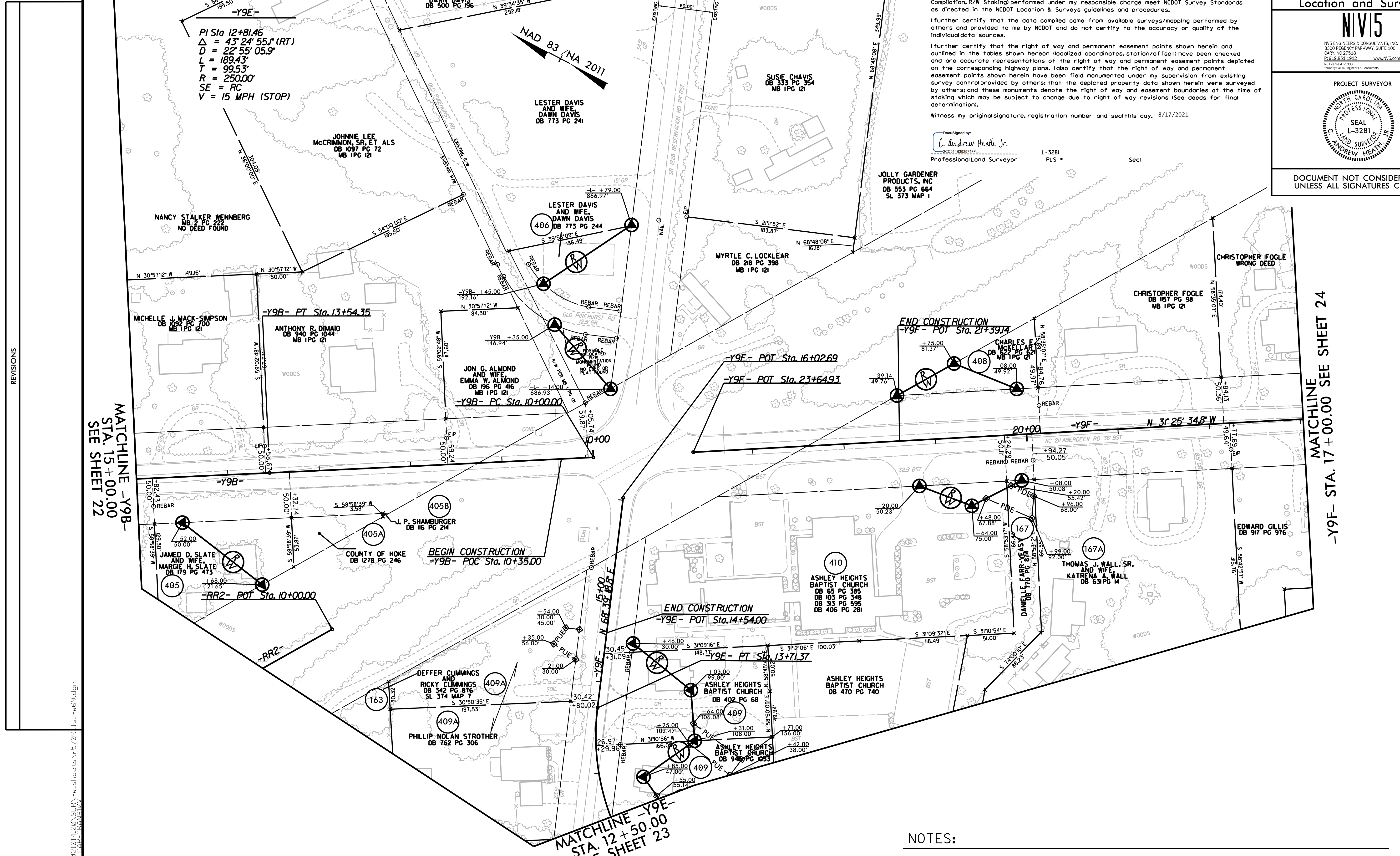
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Witness my original signature, registration number and seal this day, 8/17/2021.

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

L-3281  
 PLS

Seal



6/2/09

REVISIONS

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 Date: 8/17/2021 1:38:42 PM

**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 .



6/2/19

REVISIONS

9/7/2021 - REVISED PER DIVISION L&S COMMENTS

07\_SEP\_2021 08:58 2021014\_20 SURV-rw\_sheets-r-5709-1s-rw70.dgn  
C:\Users\andrew.heath\OneDrive\Documents\Projects\5709\Drawings\11\NCDOT\TRANSITION

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 Compilation, 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, 9/7/2021

DocuSigned by:  
C. Andrew Heath Jr.  
20200403020747F  
Professional Land Surveyor

L-3281  
PLS

Seal

PROJECT REFERENCE NO. SHEET NO.  
R-5709 RW70

Location and Surveys

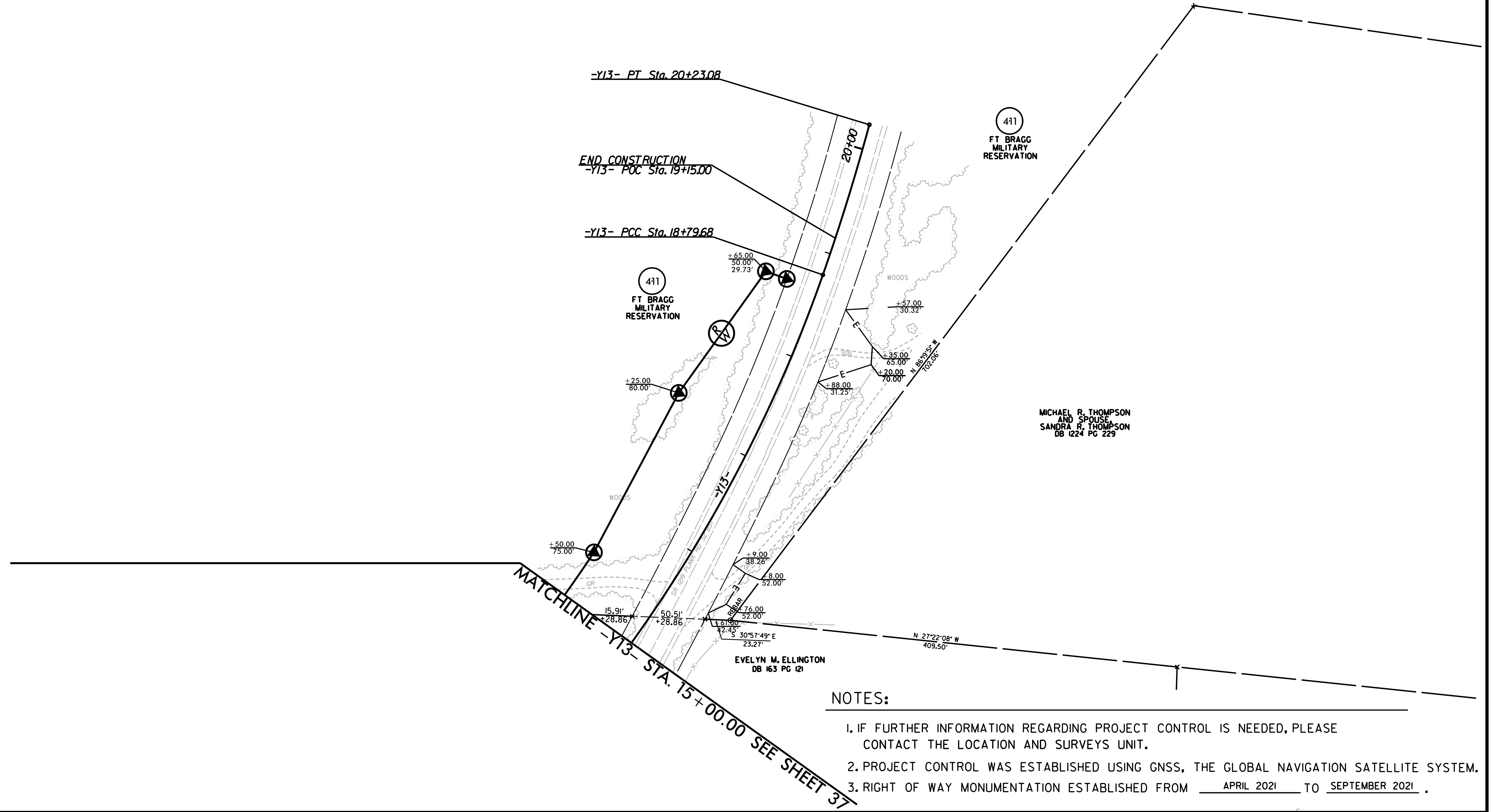
NIVIS

NIVIS ENGINEERS & CONSULTANTS, INC.  
3300 REGENCY PARKWAY, SUITE 100  
CHAR, NC 27258  
P: 919.853.1912 www.NIVIS.com  
NC License # P-1313  
Member, NCEM Engineers & Consultants

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL 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

|   |           |
|---|-----------|
| PROJECT REFERENCE NO.   | SHEET NO. |
| R-5709  | RW71      |
| <b>Location and Surveys</b>   |           |
| <b>NIVIS</b>  |           |
| <small>NIVS ENGINEERS &amp; CONSULTANTS, INC.<br/>         3300 REGENCY PARKWAY, SUITE 100<br/>         CARRI, NC 27518<br/>         P: 919.851.1912 www.NIVS.com<br/>         NC License # F-5333<br/>         Andrew Heath, Jr. Engineers &amp; Consultants</small> |           |
| PROJECT SURVEYOR  |           |
|    |           |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED  |           |

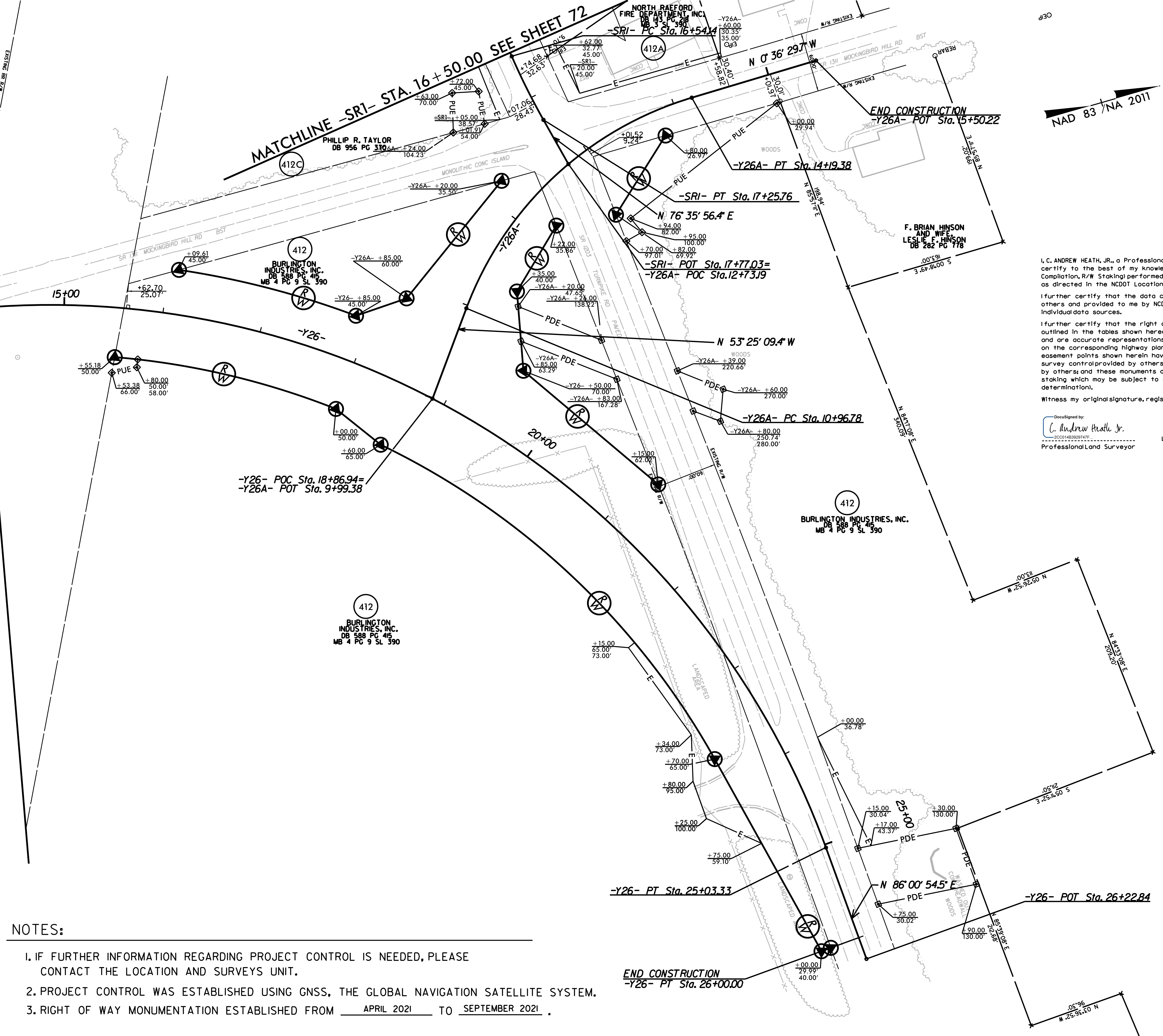
NAD 83 /NA 2011

MATCHLINE -Y26- STA. 14 + 50.00 SEE SHEET 64

MATCHLINE -SRI- STA. 16 + 50.00 SEE SHEET 72

REVISIONS

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6/2/2019 11:51 AM Andrew Heath, Jr.

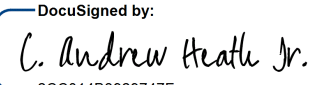


I, C. ANDREW HEATH, JR., a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work (Item 1) Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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

DocuSigned by:  
  
 20001483929747  
 Professional Land Surveyor L-3281 PLS # Seal

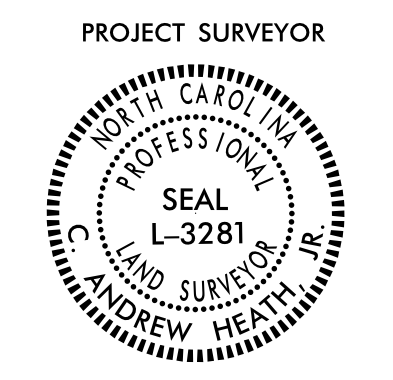
- NOTES:**
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
  2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
  3. RIGHT OF WAY MONUMENTATION ESTABLISHED FROM APRIL 2021 TO SEPTEMBER 2021.



MATCHLINE B SEE INSET A THIS SHEET

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| PROJECT REFERENCE NO. | SHEET NO. |
| R-5709                | RW72      |

Location and Surveys

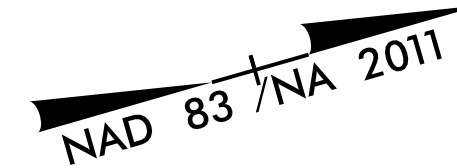


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MATCHLINE A SEE SHEET 72

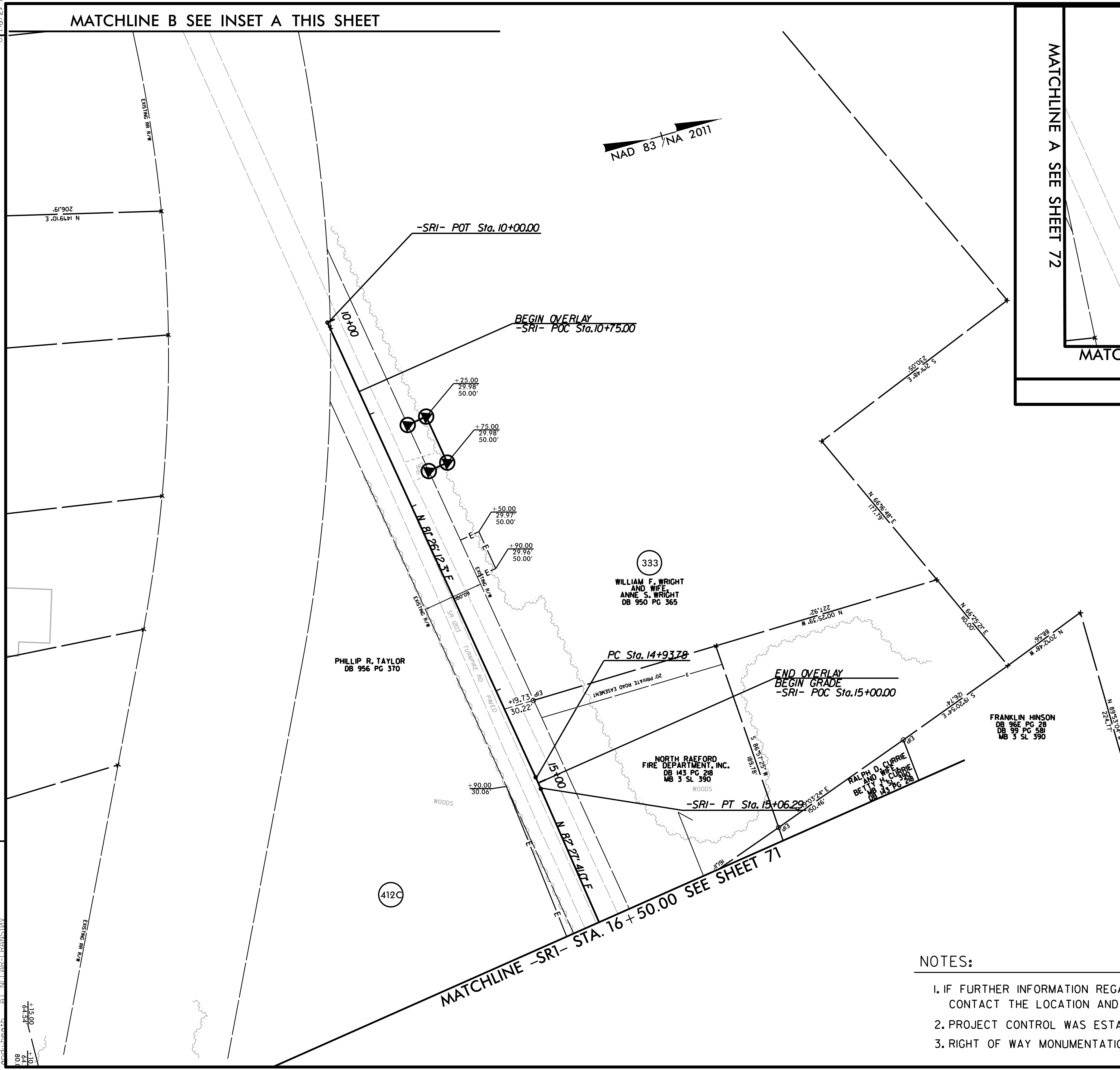
MATCHLINE B THIS SHEET

INSET A



REVISIONS

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

DocuSigned by:  
 C. Andrew Heath, Jr.  
 20201483928747F

L-3281  
 PLS \*


Seal

NOTES:

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



6/2/19

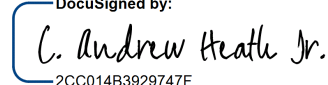
|  |           |
|--|-----------|
| PROJECT REFERENCE NO.  | SHEET NO. |
| R-5709   | RW73      |
| <b>Location and Surveys</b>  |           |
| <b>NIVIS</b>   |           |
| <small>NVIS ENGINEERS &amp; CONSULTANTS, INC.<br/>         3300 REGENCY PARKWAY, SUITE 100<br/>         CARY, NC 27518<br/>         P: 919.851.1912 www.NVIS.com<br/>         NC License # F 1333<br/>         Member I.C.A.M. Engineers &amp; Consultants</small> |           |
| PROJECT SURVEYOR   |           |
|   |           |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED   |           |

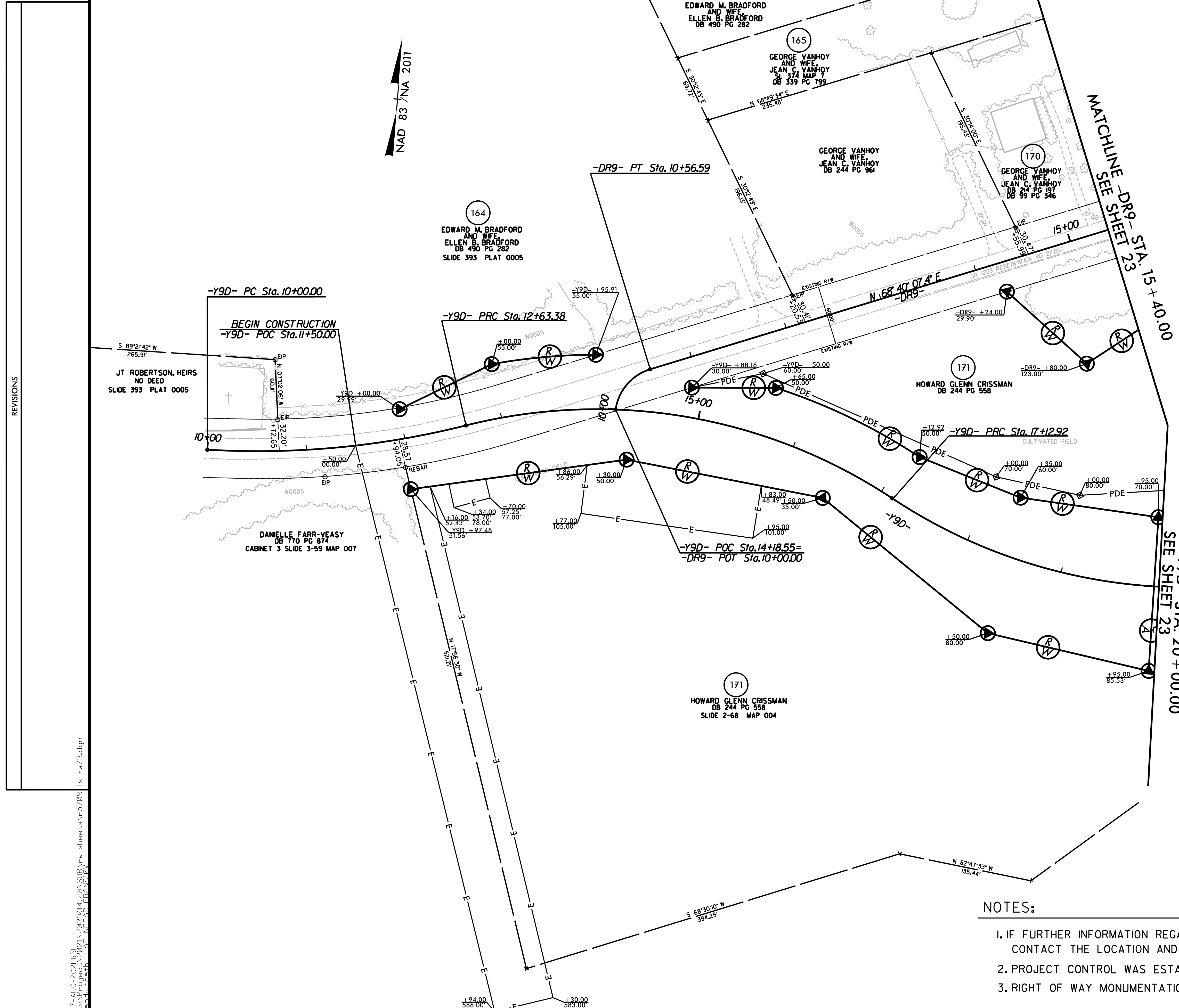
I, C. ANDREW HEATH, JR., a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work items (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & 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. 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:  
  
 L-3281  
 Professional Land Surveyor PLS Seal



- NOTES:**
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REVISIONS

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 andheath