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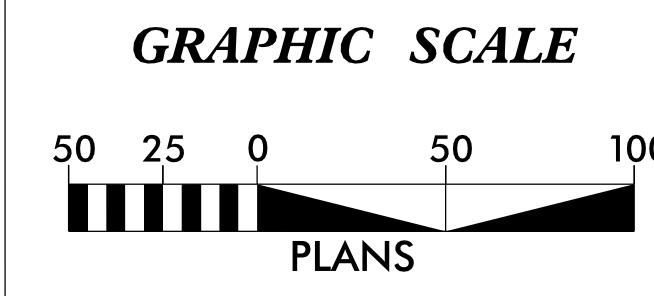
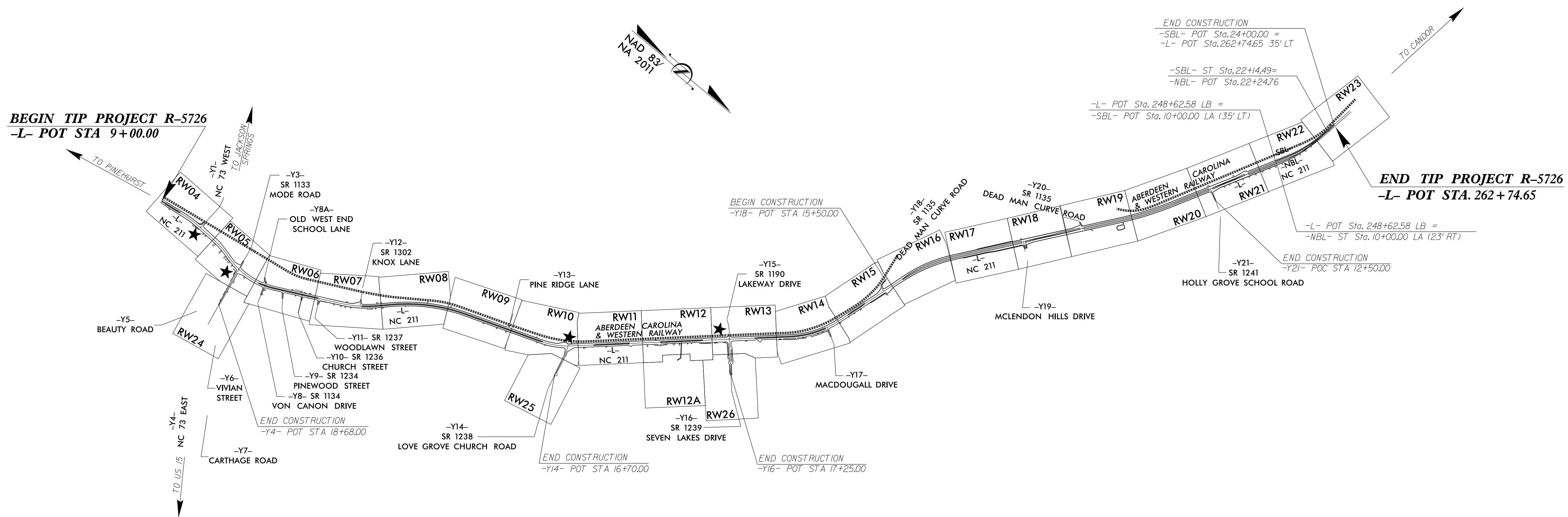
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and sealed by the individuals whose names and license  
numbers appear on each page, on the dates appearing  
with their signature on that page.**

**This file or an individual page  
shall not be considered a certified document.**

TIP PROJECT: R-5726

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5726	RW01	42

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
 SURVEY CONTROL, EXISTING CENTERLINES,  
 RIGHT OF WAY, EASEMENTS AND PROPERTY TIES  
**MOORE COUNTY**



**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "R5726-7" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 551,275.724(ft) EASTING: 1,825,309.563(ft) ELEVATION: 611.021(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999848475

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R5726-7" TO -L- STATION 9+00.00 IS S 26-21'19.2" E 11817.650(ft)

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88-GEOID 12B

Prepared in the Office of:

**NIV5**

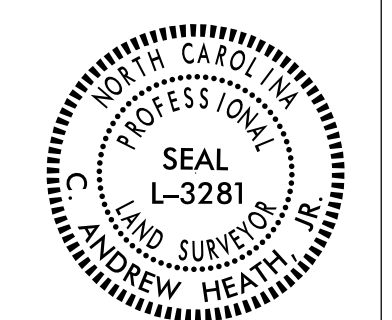
NIV5 ENGINEERS & CONSULTANTS, INC.  
 3300 REGENCY PARKWAY, SUITE 100  
 CARY, NC 27518  
 P: 919.851.1912 www.NIV5.com  
 NC License #11333 formerly CALYX Engineers & Consultants

2018 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
 06/29/2018

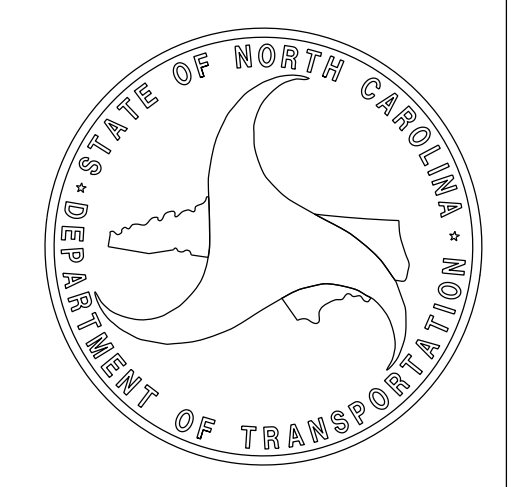
**LETTING DATE:**  
 06/16/2020

PROFESSIONAL LAND SURVEYOR



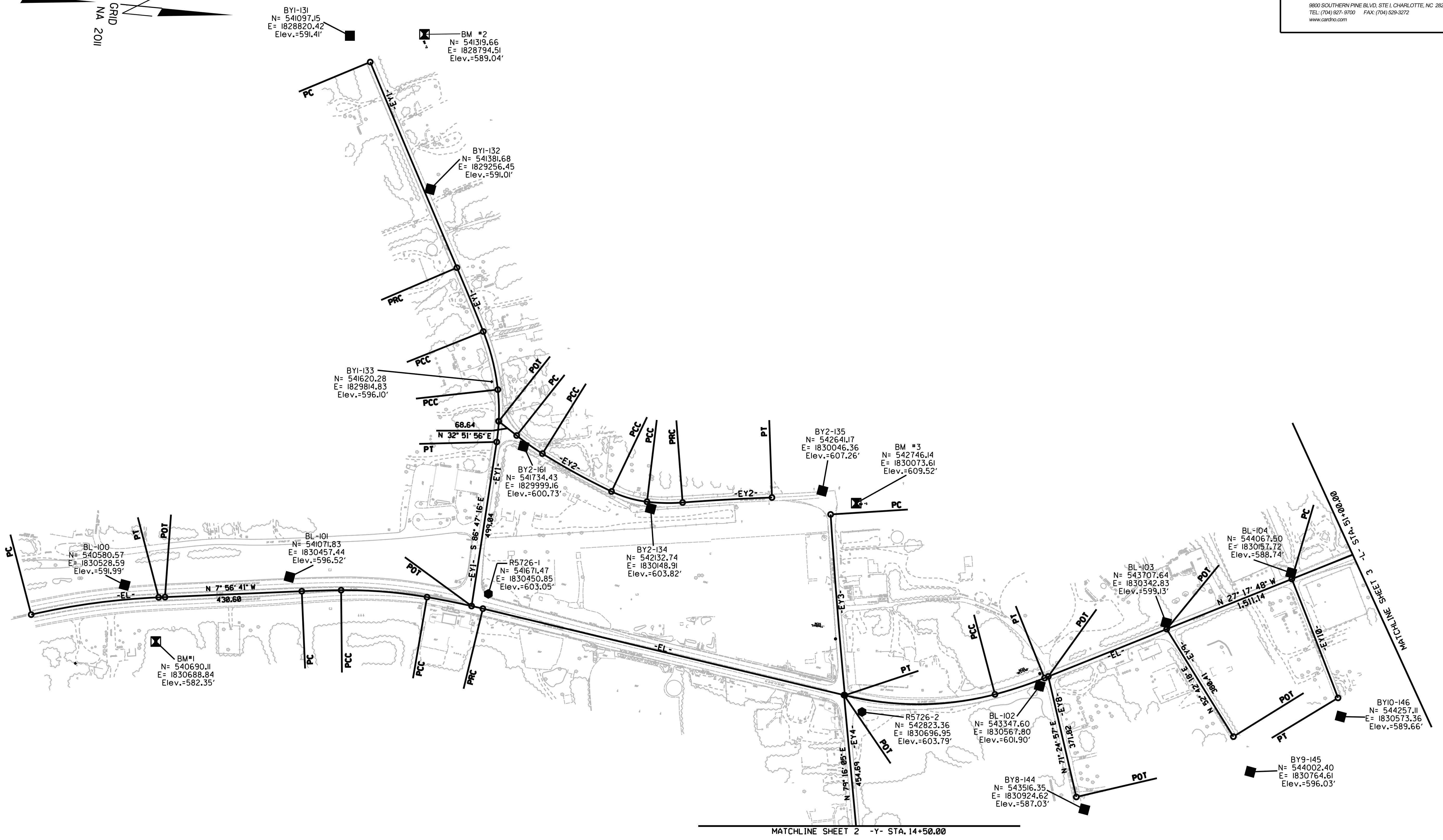
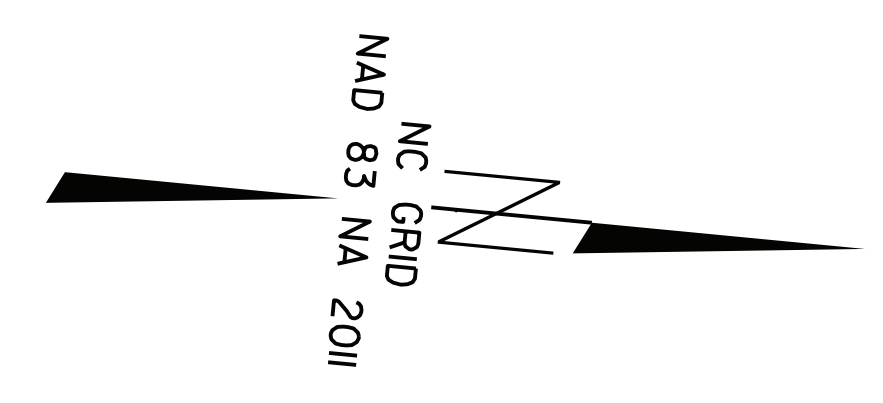
DocuSigned by:  
 C. Andrew Heath Jr.  
 20201481939747F...

Date:  
 3/17/2022



# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION




**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.

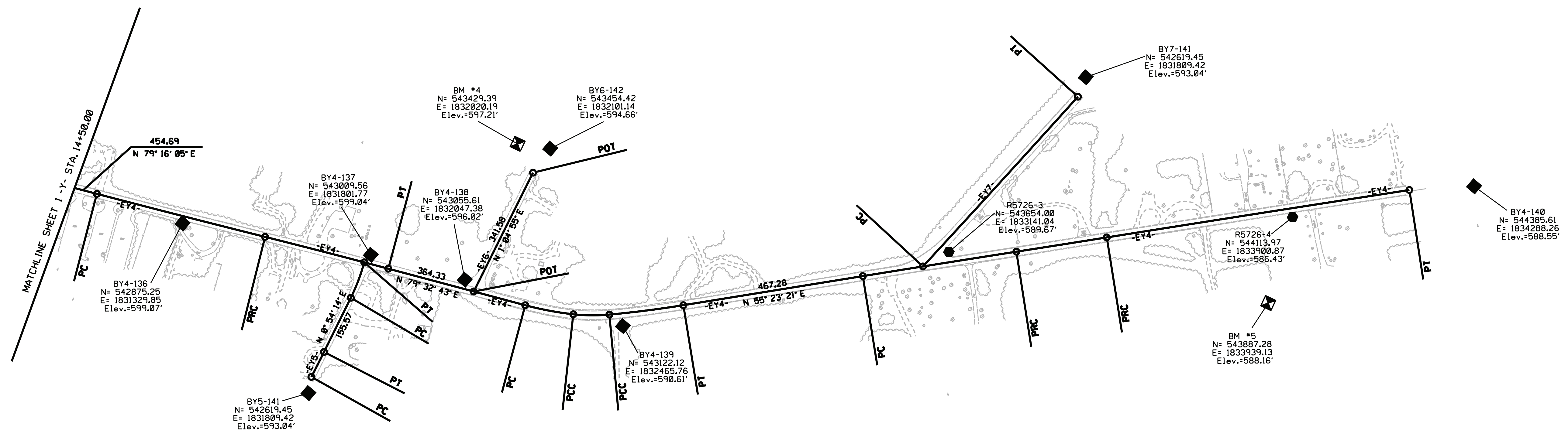
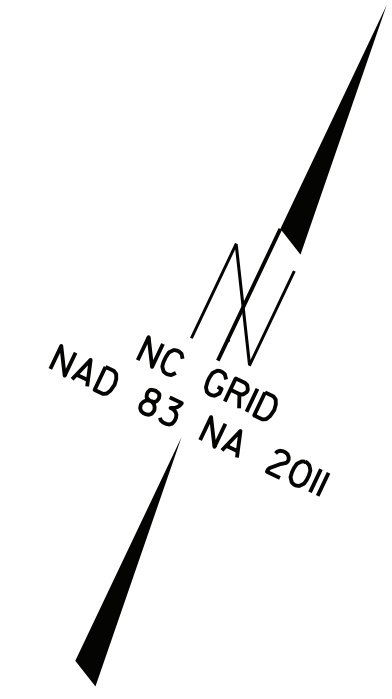
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 6/2/19

6/2/09

PROJECT REFERENCE NO.	SHEET NO.
R-5726	RW2C-2
Location and Surveys	
	
CHARLOTTE 9800 SOUTHERN PINE BLVD, STE I, CHARLOTTE, NC 28273 TEL: (704) 527-9700 FAX: (704) 529-3272 www.cardno.com	

# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



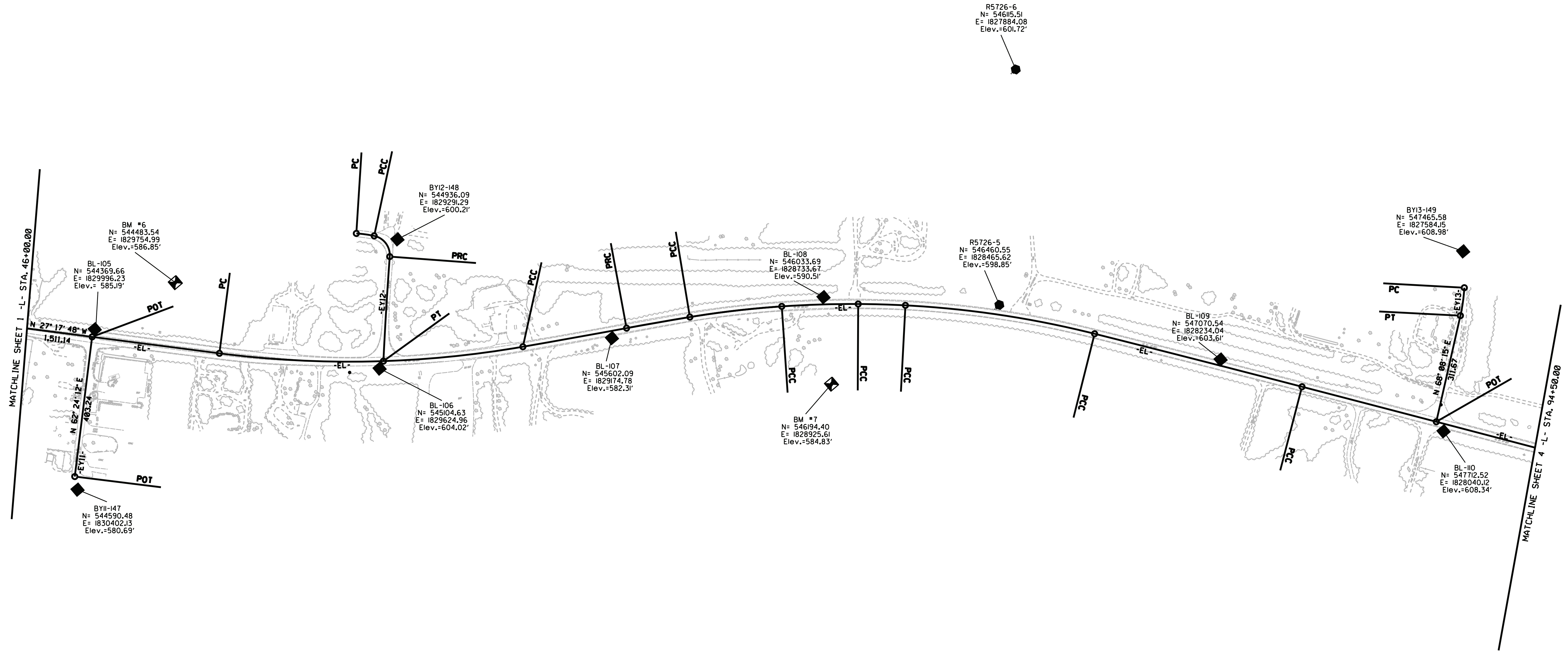
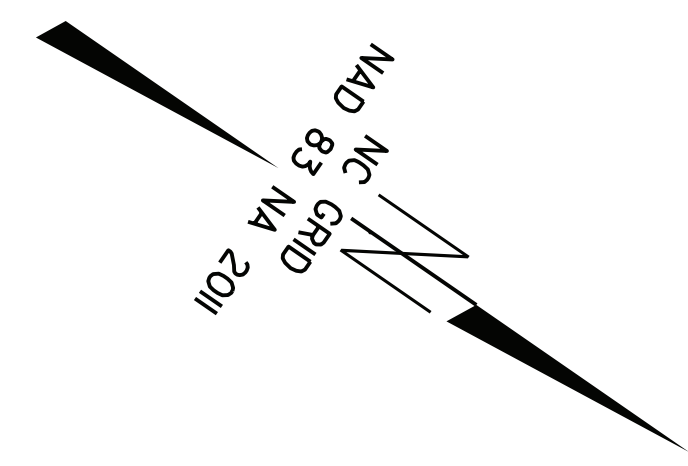
**NOTES:**

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.

I:\OCT-2018\_0717\Projects\NC095006MC NCDOT-Location & Survey 2017-2018\21--5726 NC211\CAD\Right of Way Sheets\C Series - RW2C\5726-1s-rw2c-2.cdw.dgn  
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 Date: 12/01/2018  
 Time: 07:17

# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



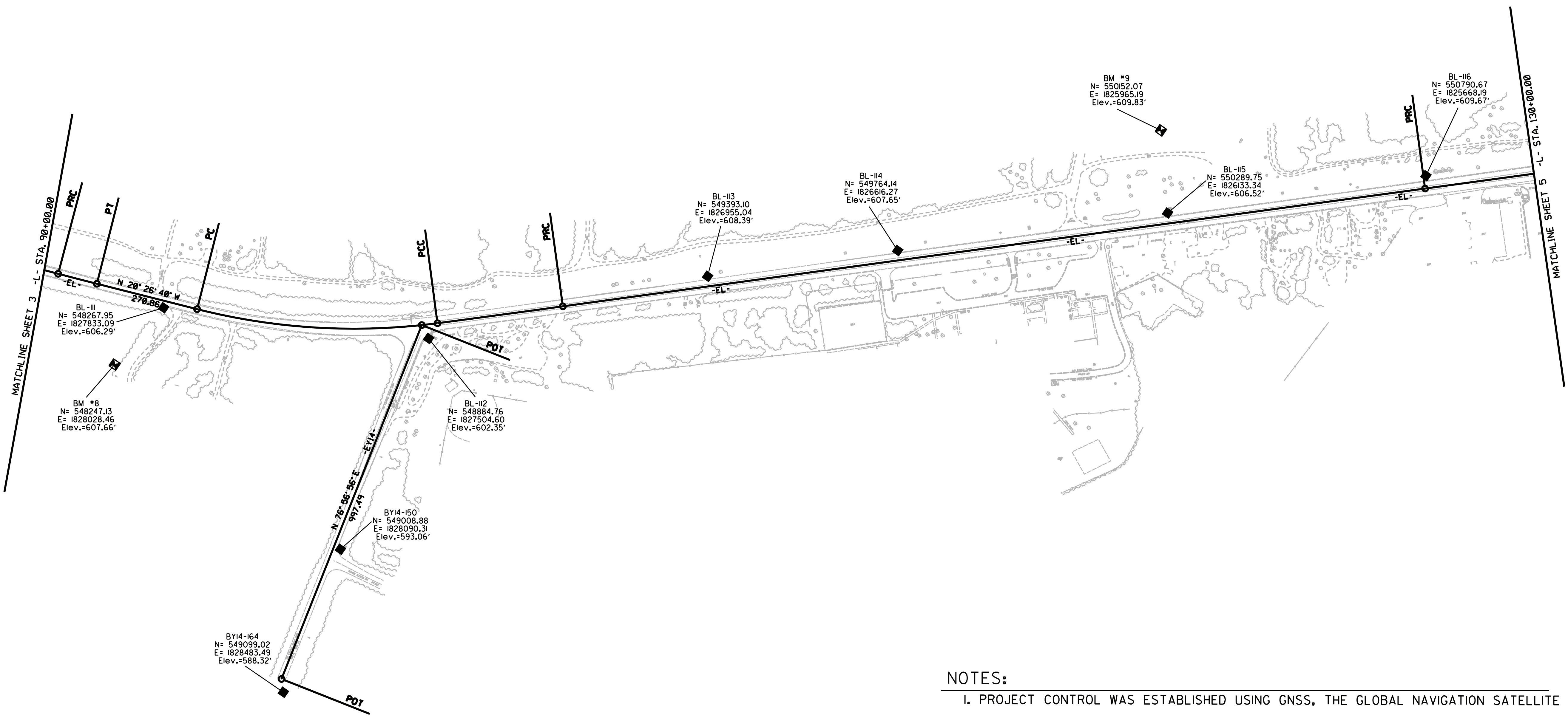
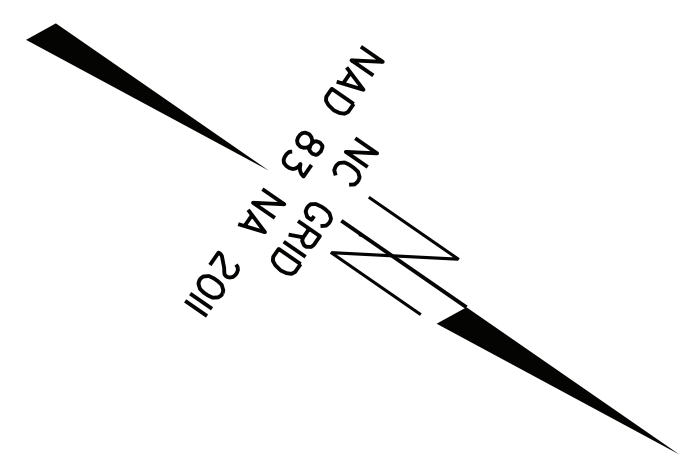
- NOTES:**
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
  - THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

12-OCT-2018 07:25  
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 6/2/19

PROJECT REFERENCE NO.	SHEET NO.
R-5726	RW2C-4
Location and Surveys	
	
CHARLOTTE 9800 SOUTHERN PINE BLVD, STE I, CHARLOTTE, NC 28273 TEL: (704) 927-9700 FAX: (704) 529-3272 www.cardno.com	

# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



- 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.

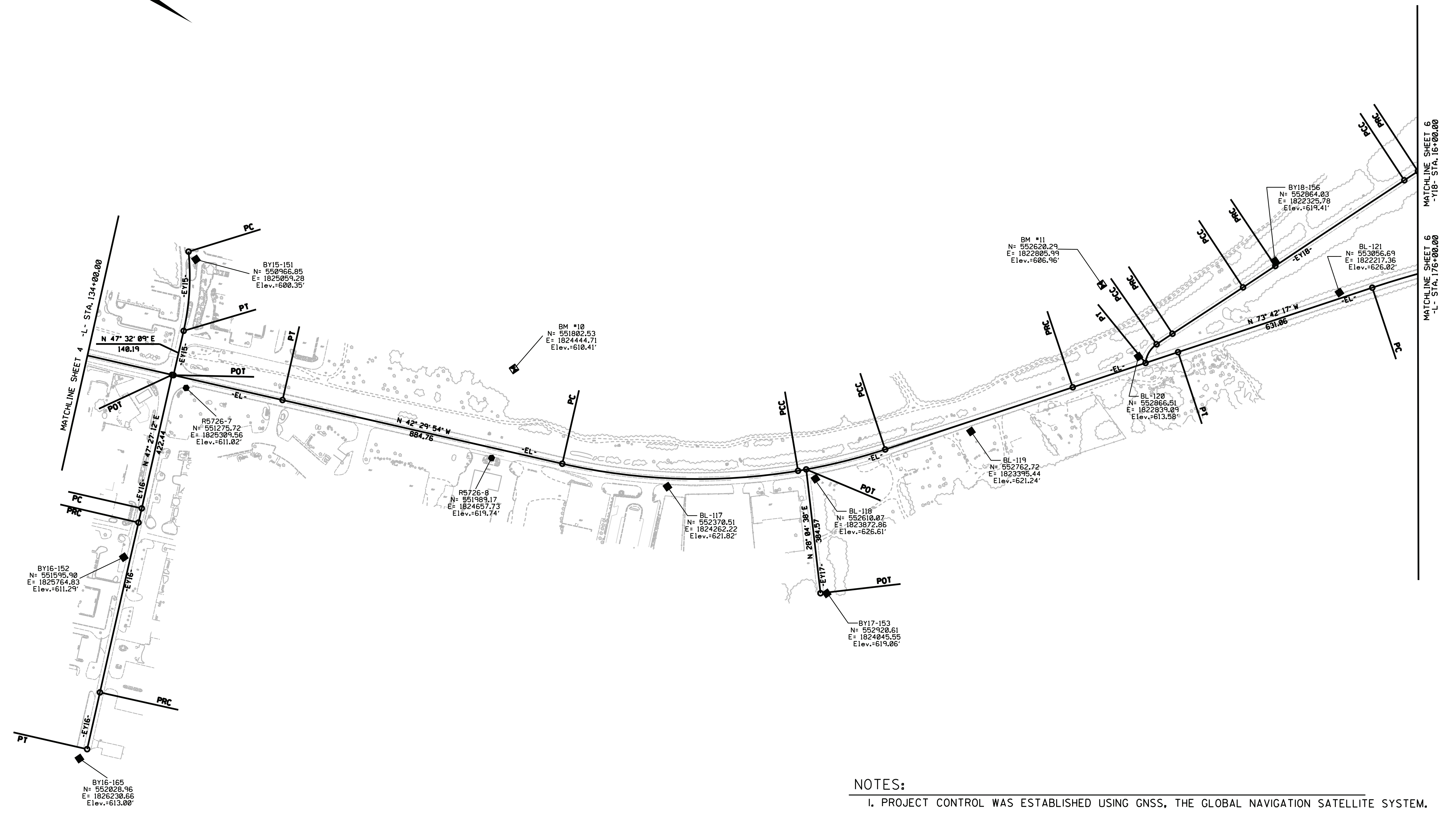
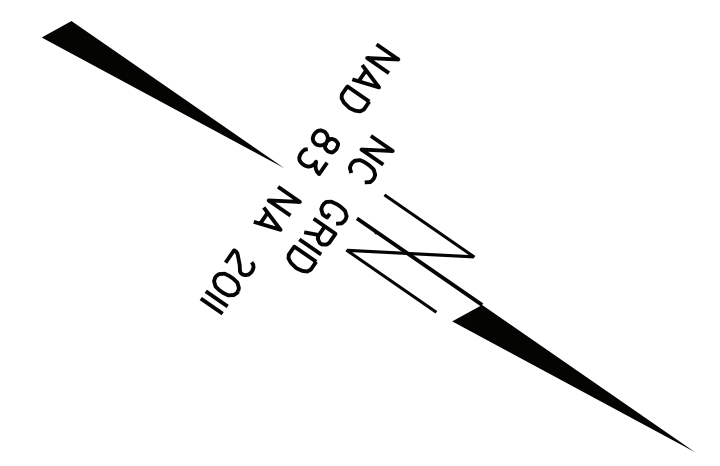
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 6/2/19

6/2/19

PROJECT REFERENCE NO.	SHEET NO.
R-5726	RW2C-5
Location and Surveys	
<b>Cardno</b>	
CHARLOTTE 9800 SOUTHERN PINE BLVD, STE I, CHARLOTTE, NC 28273 TEL: (704) 527-9700 FAX: (704) 529-3272 www.cardno.com	

# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

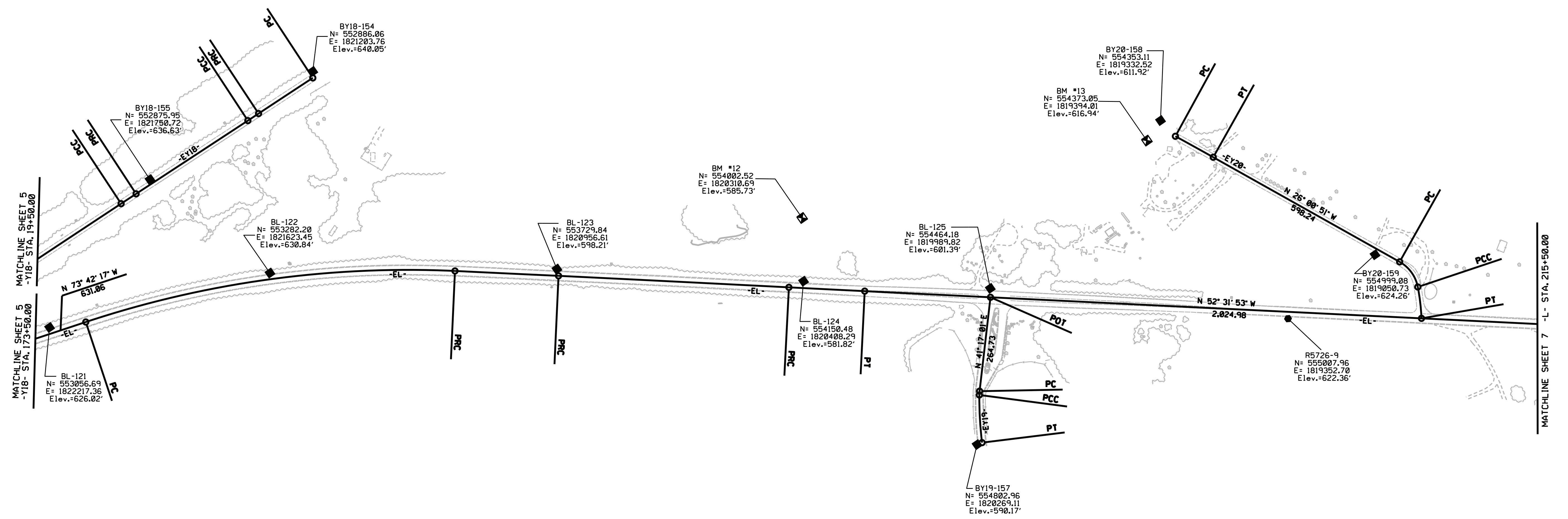
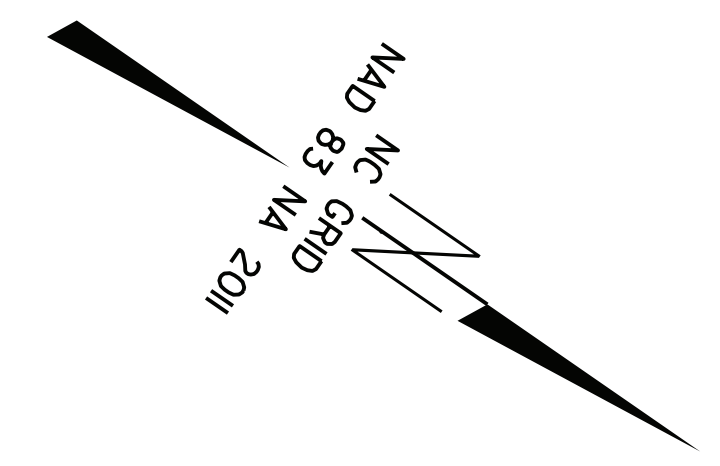


- NOTES:**
1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
  2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

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 6/2/19

# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



- NOTES:**
1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
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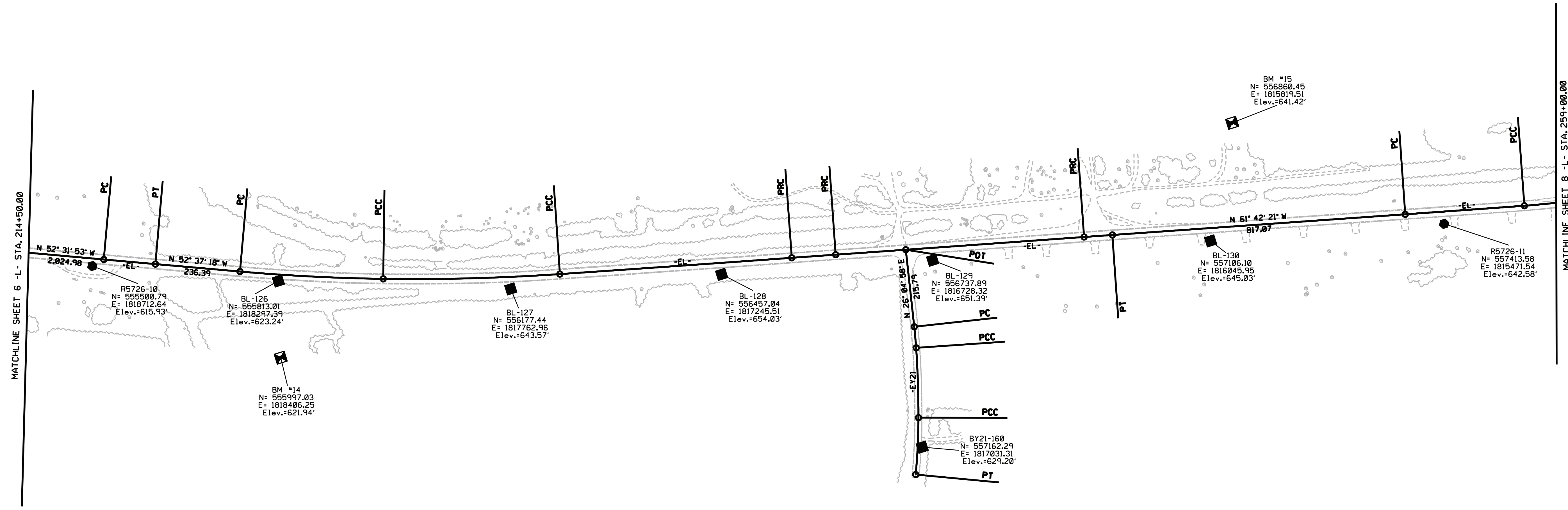
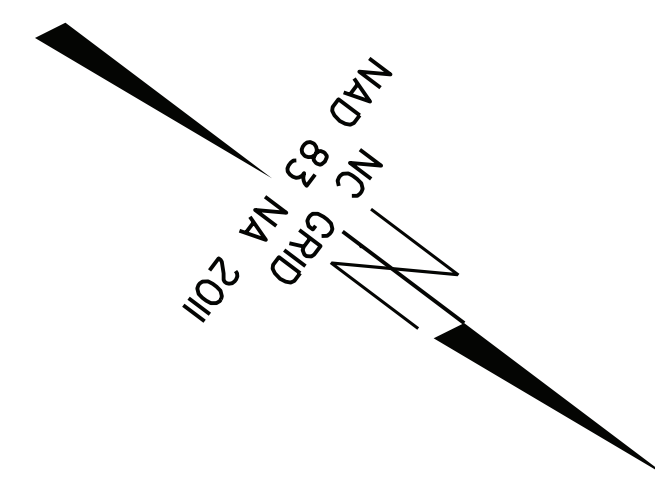
6/2/19  
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PROJECT REFERENCE NO.	SHEET NO.
R-5726	RW2C-7
Location and Surveys	
	
CHARLOTTE 9800 SOUTHERN PINE BLVD, STE I, CHARLOTTE, NC 28273 TEL: (704) 527-9700 FAX: (704) 529-3272 www.cardno.com	

# SURVEY CONTROL SHEET


W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



**NOTES:**

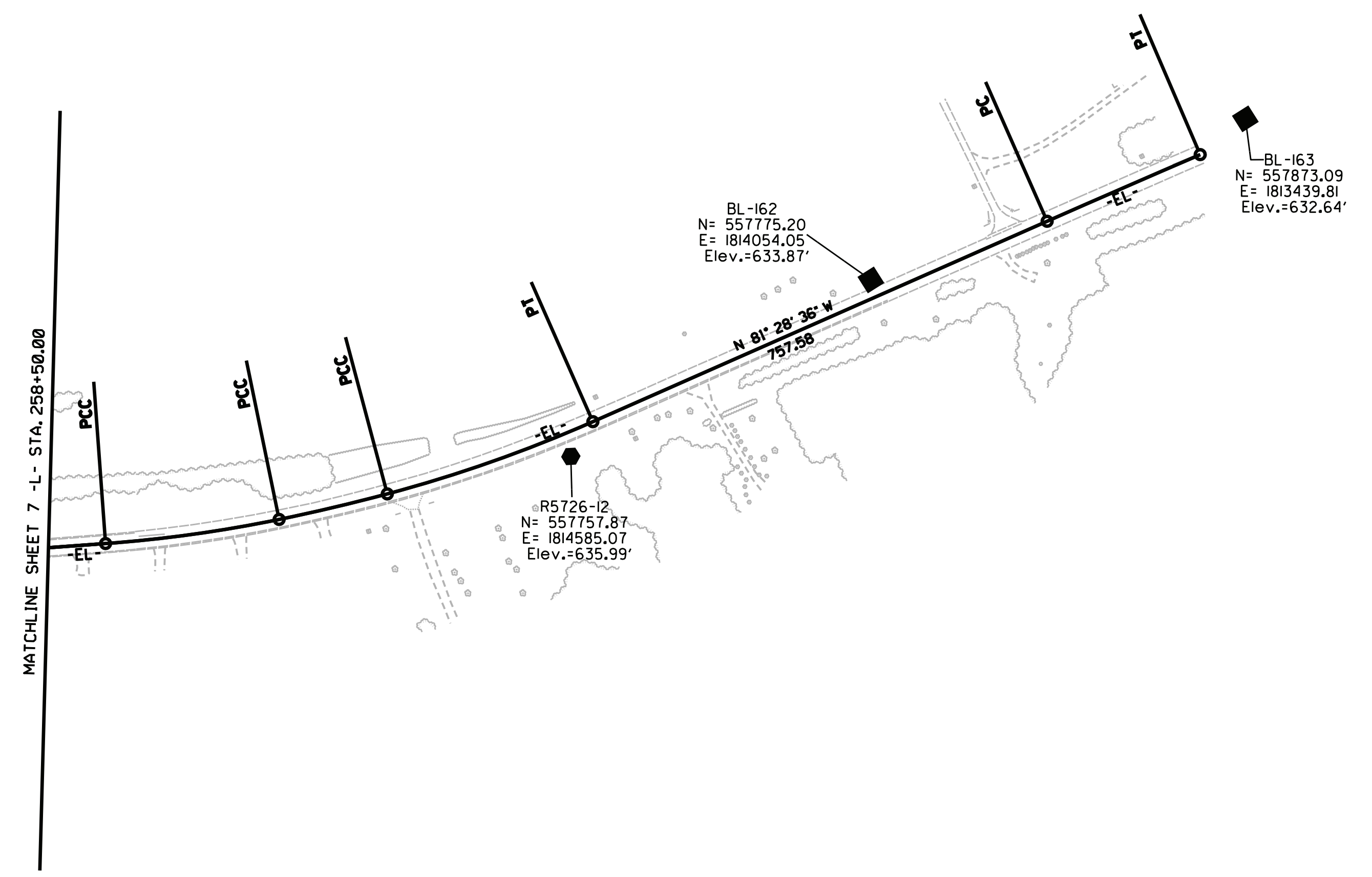
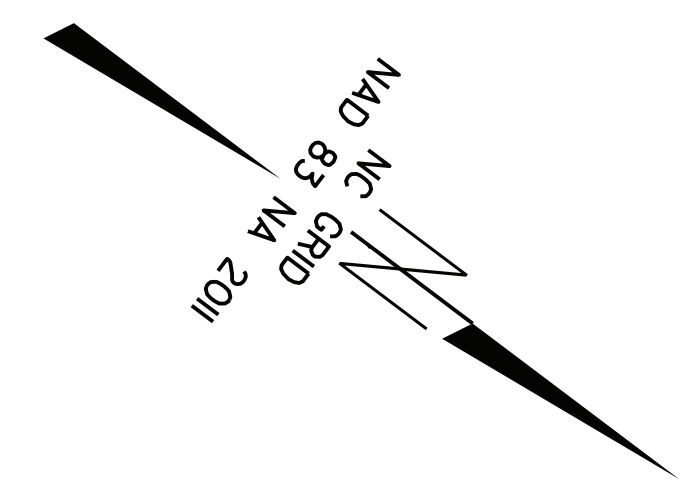
1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

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 6/2/19

PROJECT REFERENCE NO.	SHEET NO.
R-5726	RW2C-8
<b>Location and Surveys</b>	
 <b>Cardno</b> CHARLOTTE 9800 SOUTHERN PINE BLVD, STE I, CHARLOTTE, NC 28273 TEL: (704) 527-9700 FAX: (704) 529-3272 www.cardno.com	

# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



**NOTES:**

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03-OCT-2018 14:31 C:\Users\pnc\Documents\Projects\NC095006MC NCDOT-Location & Survey 2017-2018\21-5726 NC21\CAD\Right of Way Sheets\C Series - RW2C\5726.ls\_rw2c-8.cdw.dgn 6/2/19





















6/2/19

Location and Surveys

NV15

NVS ENGINEERS & CONSULTANTS, INC.  
3300 REGENCY PARKWAY, SUITE 100  
CARY, NC 27518  
P: 919.851.1912 www.nvs.com

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, C. Andrew Heath, Jr., certify that the right of way and permanent easement monumentation for this project shown herein 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 1:10,000 (Class A). Field work was performed from 11/03/2021 to 03/11/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

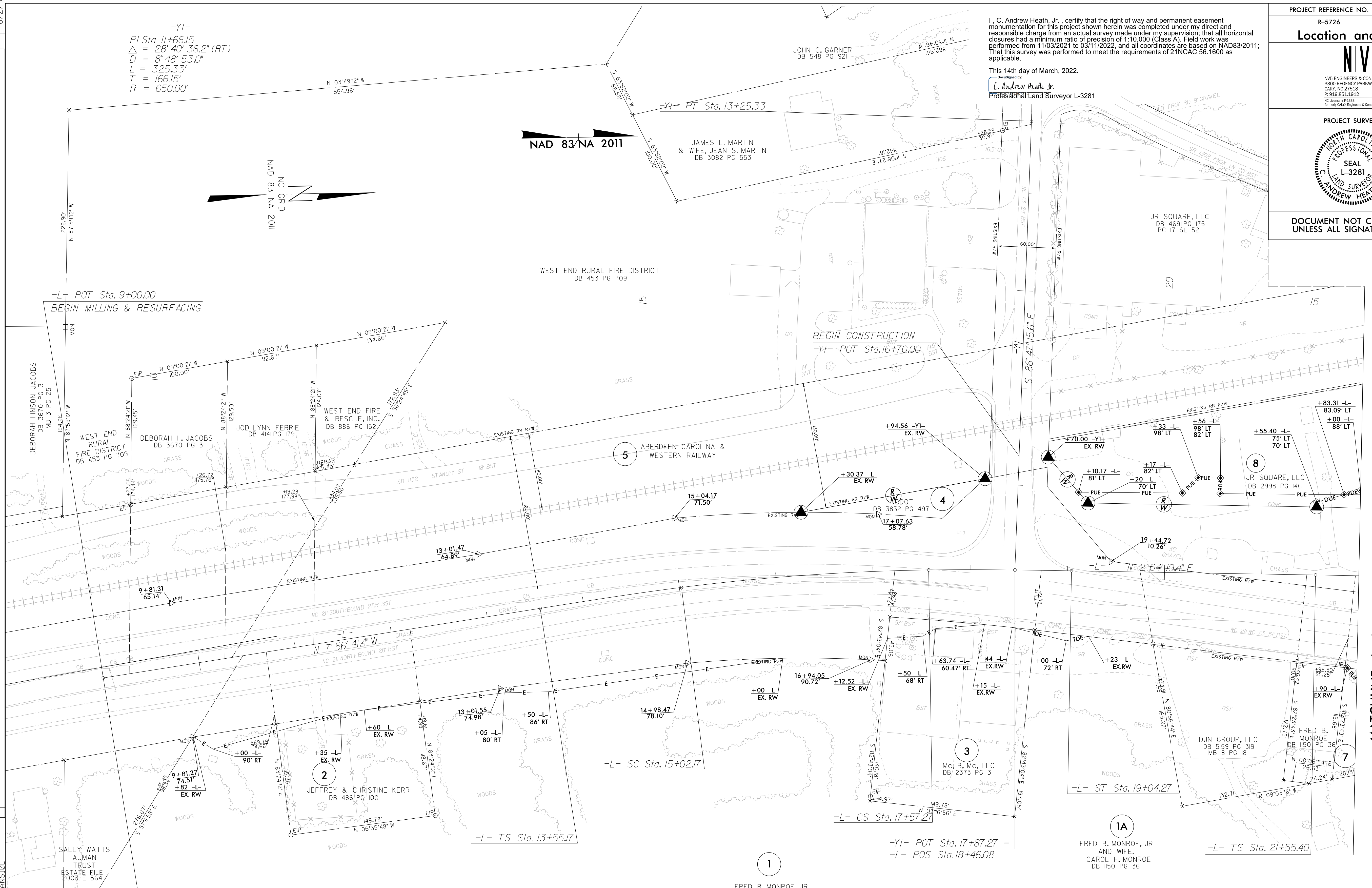
This 14th day of March, 2022.  
C. Andrew Heath, Jr.  
Professional Land Surveyor L-3281

NAD 83/NA 2011



REVISIONS

12-MAR-2022 17:35  
G:\Projects\2021\2021-01-14-73-SURV\Drawings\5726\1s\_rvw04.dgn  
AT: NCCAP-CRANS100  
scott@carolina.com



-Y1-  
PI Sta 11+66.15  
 $\Delta = 28^\circ 40' 36.2''$  (RT)  
 $D = 8^\circ 48' 53.0''$   
 $L = 325.33'$   
 $T = 166.15'$   
 $R = 650.00'$

-L- POT Sta. 9+00.00  
BEGIN MILLING & RESURFACING

BEGIN CONSTRUCTION  
-Y1- POT Sta. 16+70.00

BEGIN TIP PROJECT R-5726  
-L- STA. 9+00.00

1  
FRED B. MONROE, JR  
AND WIFE,  
CAROL H. MONROE  
DB 1150 PG 36

NOTES:  
-L-  
PIs Sta 16+29.85  
 $\Delta = 6^\circ 21' 17.8''$  (RT)  
 $Ls = 147.00'$   
 $LT = 98.01'$   
 $ST = 49.00'$   
PIs Sta 18+06.28  
 $\Delta = 1^\circ 49' 51.5''$   
 $Ls = 147.00'$   
 $LT = 98.01'$   
 $ST = 49.00'$   
PIs Sta 22+86.10  
 $\Delta = 3^\circ 44' 36.0''$   
 $Ls = 196.00'$   
 $LT = 130.70'$   
 $ST = 65.36'$

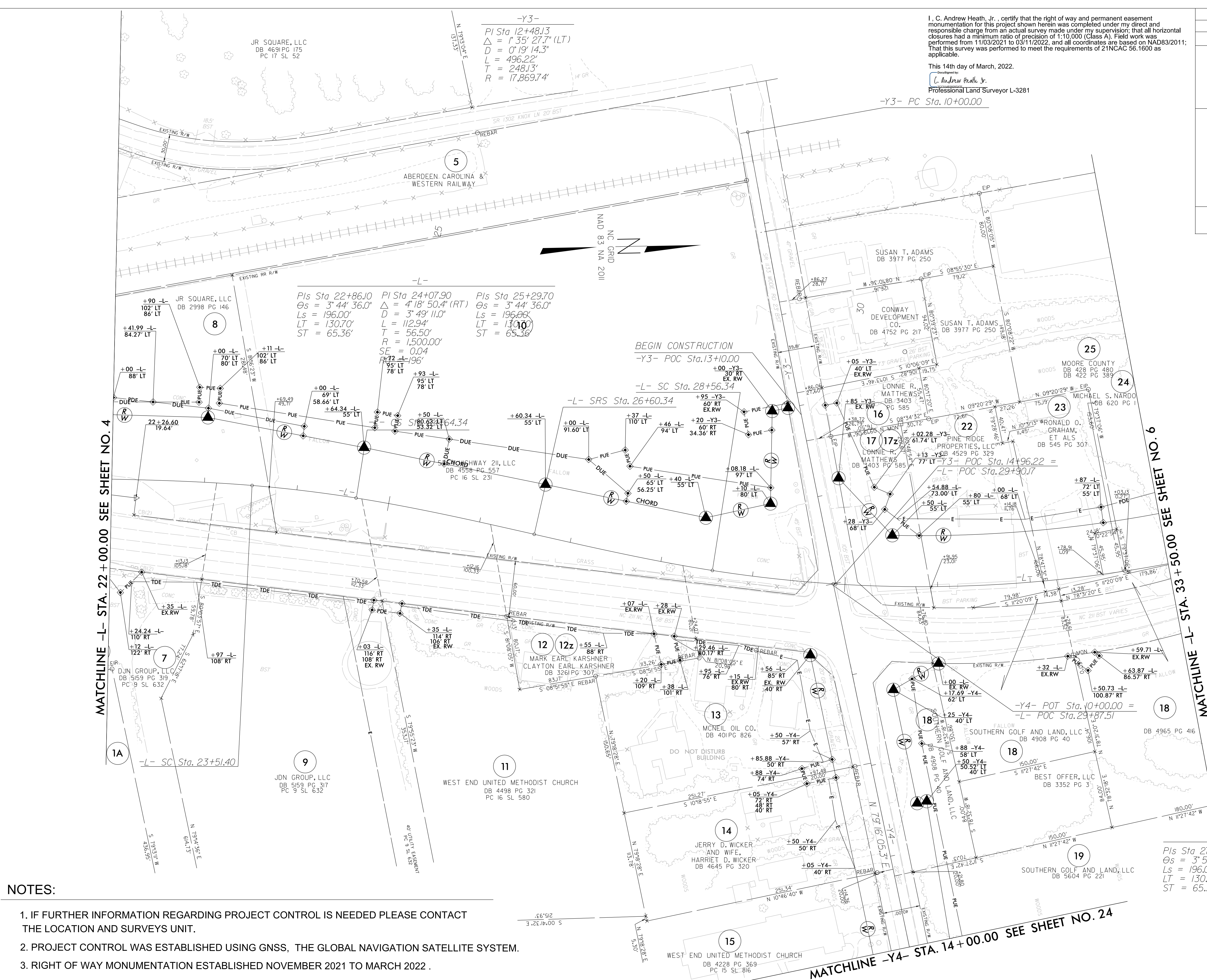
NOTES:

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 NOVEMBER 2021 TO MARCH 2022 .

MATCHLINE -L- STA. 22 + 00.00 SEE SHEET NO. 5

REVISIONS

14-MAR-2022 07:37  
C:\p16\cck\2021\2021014\_73\_SURV\w\_sheets\5726\_1s\_rw05.dgn  
AT NCCAR-GRANS100  
scott@anford



-Y3-  
 PI Sta 12+48.13  
 $\Delta = 1^\circ 35' 27.7''$  (LT)  
 $D = 0^\circ 19' 14.3''$   
 $L = 496.22'$   
 $T = 248.13'$   
 $R = 17,869.74'$

-L-  
 PIs Sta 22+86.10 PI Sta 24+07.90 PIs Sta 25+29.70  
 $\Delta s = 3^\circ 44' 36.0''$   $\Delta = 4^\circ 18' 50.4''$  (RT)  $\Delta s = 3^\circ 44' 36.0''$   
 $Ls = 196.00'$   $D = 3^\circ 49' 11.0''$   $Ls = 196.00'$   
 $LT = 130.70'$   $L = 112.94'$   $LT = 130.70'$   
 $ST = 65.36'$   $R = 56.50'$   $ST = 65.36'$   
 $R = 1,500.00'$   
 $SE = 0.04$   
 $PI = 32.1196'$

-L-  
 PIs Sta 27+91.04 PI Sta 32+91.55  
 $\Delta s = 3^\circ 52' 20.7''$   $\Delta = 33^\circ 24' 47.1''$  (LT)  
 $Ls = 196.00'$   $D = 3^\circ 57' 05.2''$   
 $LT = 130.70'$   $L = 845.59'$   
 $ST = 65.36'$   $T = 435.20'$   
 $R = 1,450.00'$   
 $SE = 0.04$   
 $RO = 196'$

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 NOVEMBER 2021 TO MARCH 2022.

I, C. Andrew Heath, Jr., certify that the right of way and permanent easement monumentation for this project shown herein 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 1:10,000 (Class A). Field work was performed from 11/03/2021 to 03/11/2022, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 14th day of March, 2022.  
 C. Andrew Heath, Jr.  
 Professional Land Surveyor L-3281

PROJECT REFERENCE NO. R-5726	SHEET NO. RW05
<b>Location and Surveys</b>	
<b>NV5</b>	
<small>NV5 ENGINEERS &amp; CONSULTANTS, INC.        3300 REGENCY PARKWAY, SUITE 100        CARY, NC 27518        P: 919.851.1912 www.NV5.com        NC License # F 1533        Member P&amp;R Engineers &amp; Consultants</small>	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

MATCHLINE -Y4- STA. 14 + 00.00 SEE SHEET NO. 24

MATCHLINE -L- STA. 22 + 00.00 SEE SHEET NO. 4

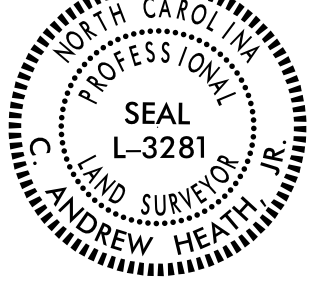
MATCHLINE -L- STA. 33 + 50.00 SEE SHEET NO. 6

-L-	-Y8A-	-Y10-
PI Sta 32+91.55	PI Sta 10+54.71	PI Sta 11+91.82
$\Delta = 33^{\circ}24'47.1''$ (LT)	$\Delta = 11^{\circ}53'55.8''$ (RT)	$\Delta = 0^{\circ}57'09.4''$ (RT)
$D = 3^{\circ}57'05.2''$	$D = 10^{\circ}54'48.5''$	$D = 0^{\circ}14'53.9''$
$L = 845.59'$	$L = 109.03'$	$L = 383.64'$
$T = 435.20'$	$T = 54.71'$	$T = 191.82'$
$R = 1,450.00'$	$R = 525.00'$	$R = 2,307.448'$
$SE = 0.04$		
$RO = 196'$		

I, C. Andrew Heath, Jr., certify that the right of way and permanent easement monumentation for this project shown herein 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 1:10,000 (Class A). Field work was performed from 11/03/2021 to 03/11/2022, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

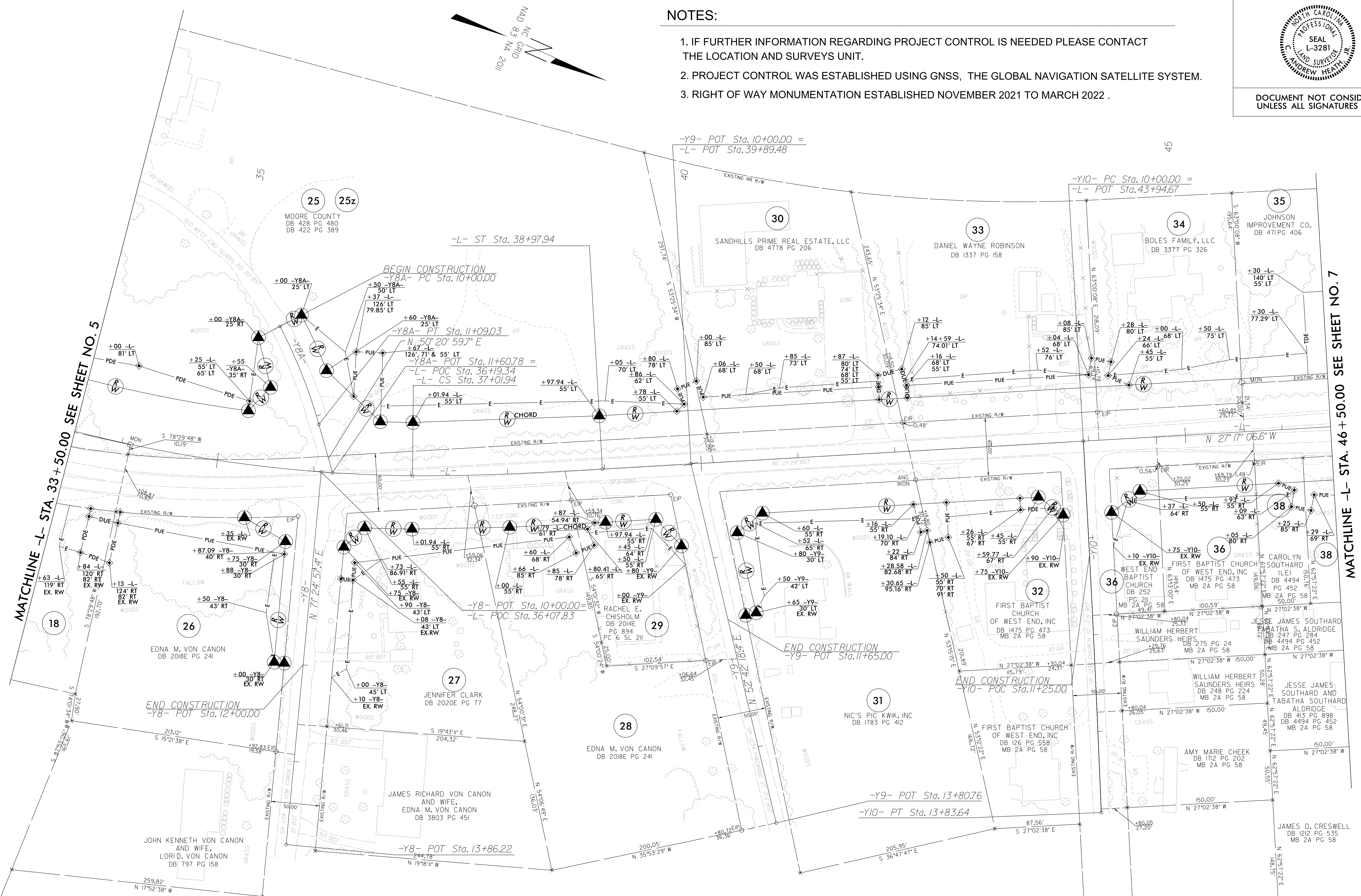
This 14th day of March, 2022.

C. Andrew Heath, Jr.  
Professional Land Surveyor L-3281

PROJECT REFERENCE NO. R-5726	SHEET NO. RW06
<b>Location and Surveys</b>	
<b>NV5</b>	
<small>NV5 ENGINEERS &amp; CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27518 P: 919.851.1912 www.NV5.com</small>	
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 NOVEMBER 2021 TO MARCH 2022 .



REVISIONS

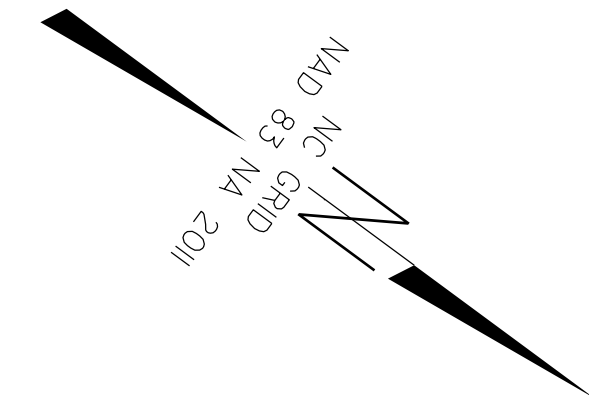
14-MAR-2022 07:42  
C:\p\6\6\2021\2021014.73\SURV\w\_sheets\1-5726\1s\_r\06.dgn  
scott@anford

MATCHLINE -L- STA. 46 + 50.00 SEE SHEET NO. 7

REVISIONS

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 NOVEMBER 2021 TO MARCH 2022 .

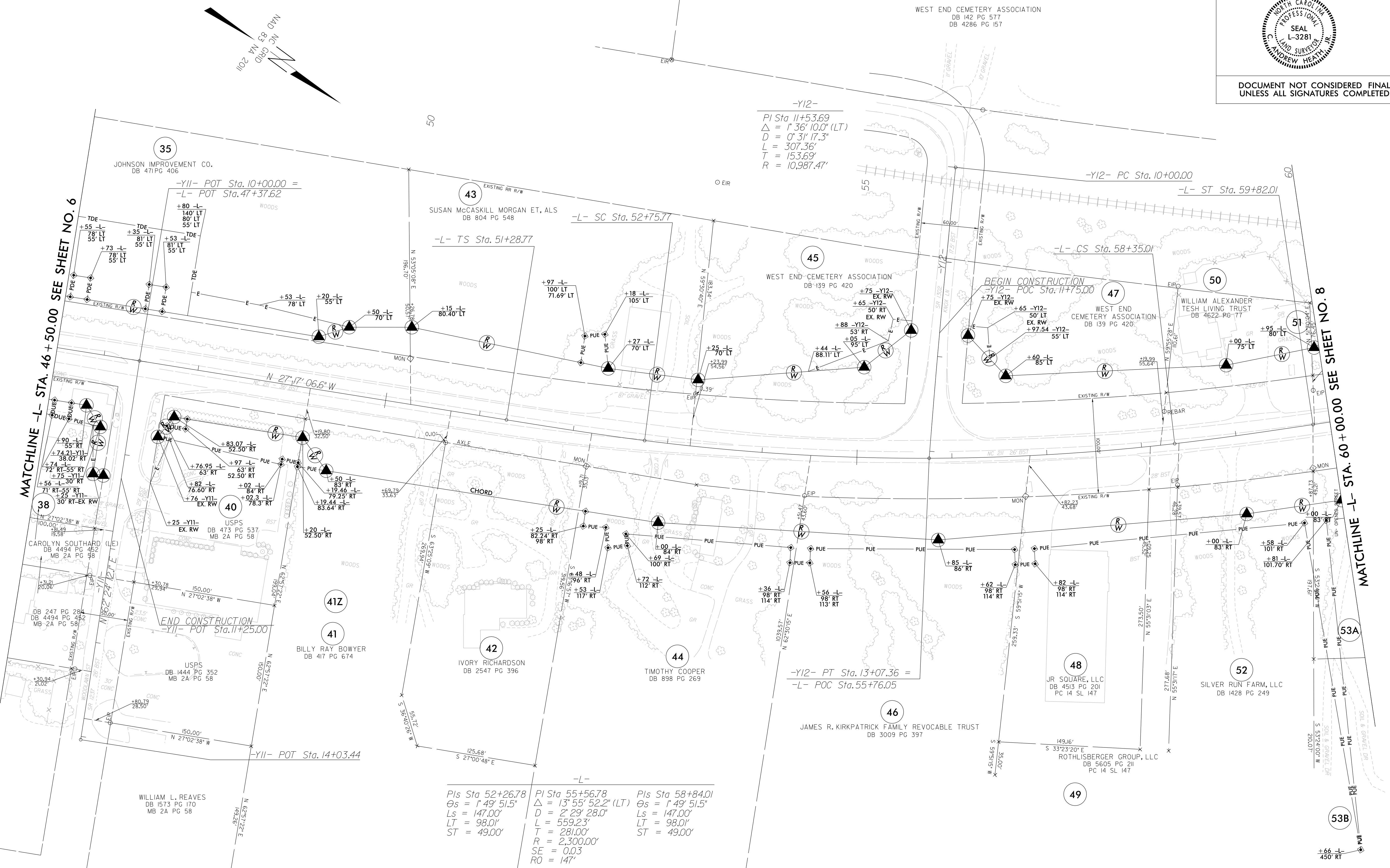


I, C. Andrew Heath, Jr., certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 11/03/2021 to 03/11/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 31st day of March, 2022.  
 C. Andrew Heath, Jr.  
 Professional Land Surveyor L-3281

PROJECT REFERENCE NO. R-5726	SHEET NO. RW07
<b>Location and Surveys</b>	
<b>NV5</b>	
NV5 ENGINEERS & CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARRI, NC 27518 P: 919.851.1912 www.NV5.com <small>NC License # P-1239 formerly C&amp;A Engineers &amp; Consultants</small>	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

WEST END CEMETERY ASSOCIATION  
 DB 142 PG 577  
 DB 4286 PG 157



Pls Sta 52+26.78  
 $\Delta s = 1^{\circ}49'51.5''$   
 $Ls = 147.00'$   
 $LT = 98.01'$   
 $ST = 49.00'$

Pls Sta 55+56.78  
 $\Delta = 13^{\circ}55'52.2''$  (LT)  
 $D = 2^{\circ}29'28.0''$   
 $L = 559.23'$   
 $T = 281.00'$   
 $R = 2,300.00'$   
 $SE = 0.03$   
 $RO = 147'$

Pls Sta 58+84.01  
 $\Delta s = 1^{\circ}49'51.5''$   
 $Ls = 147.00'$   
 $LT = 98.01'$   
 $ST = 49.00'$

3-MAR-2022 08:28  
 C:\p\601\2021\2021014\_73\_SUR\submit\1-5726.l.s.-rw07.dgn  
 AT: NCCAP-GRANS100  
 scott@carolina.com

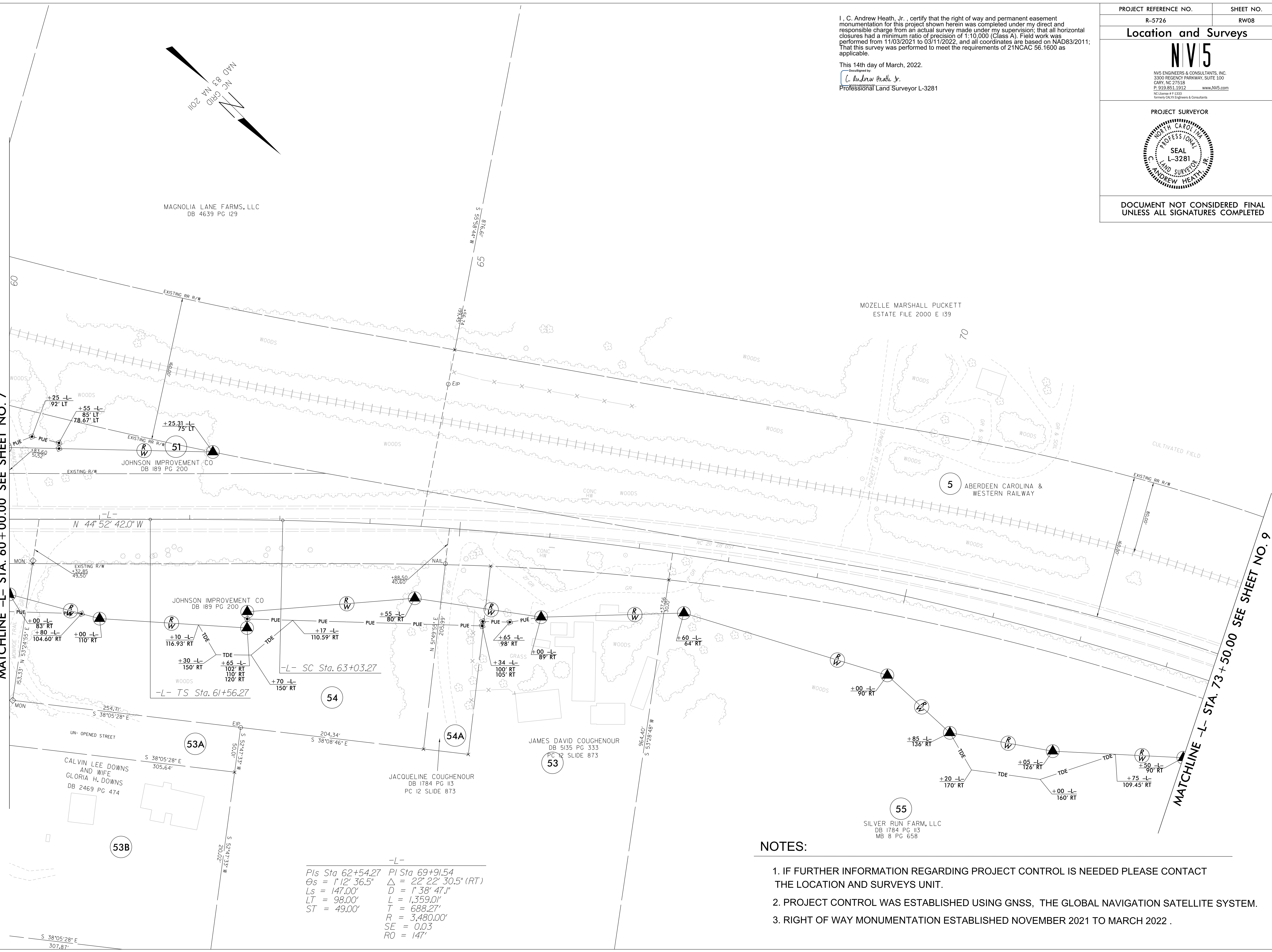
6/2/09

REVISIONS

14-MAR-2022 07:52  
C:\p\scott\2021\14.73\SURV\m\sheet5-r-5726-1s.rwdB.dgn  
scott@cranford.com

MATCHLINE -L- STA. 60 + 00.00 SEE SHEET NO. 7

MATCHLINE -L- STA. 73 + 50.00 SEE SHEET NO. 9



MAGNOLIA LANE FARMS, LLC  
DB 4639 PG 129

MOZELLE MARSHALL PUCKETT  
ESTATE FILE 2000 E 139

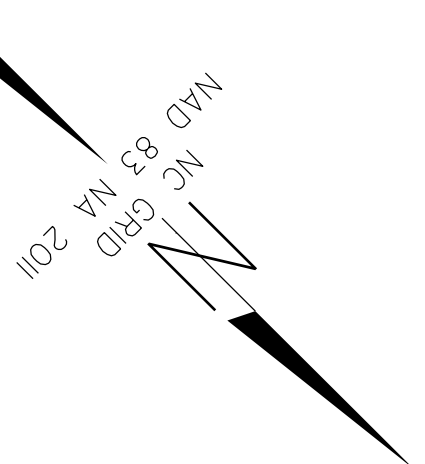
JOHNSON IMPROVEMENT CO  
DB 189 PG 200

JAMES DAVID COUGHENOUR  
DB 5135 PG 333  
PC 12 SLIDE 873

JACQUELINE COUGHENOUR  
DB 1784 PG 113  
PC 12 SLIDE 873

CALVIN LEE DOWNS  
AND WIFE  
GLORIA H. DOWNS  
DB 2469 PG 474

SILVER RUN FARM, LLC  
DB 1784 PG 113  
MB 8 PG 658



I, C. Andrew Heath, Jr., certify that the right of way and permanent easement monumentation for this project shown herein 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 1:10,000 (Class A). Field work was performed from 11/03/2021 to 03/11/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

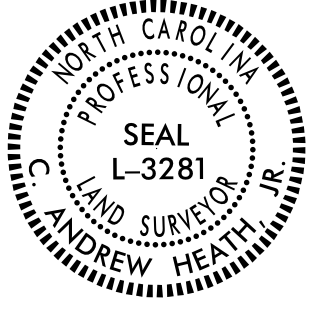
This 14th day of March, 2022.  
 Designed by:  
**C. Andrew Heath, Jr.**  
 Professional Land Surveyor L-3281

PROJECT REFERENCE NO.	SHEET NO.
R-5726	RW08

Location and Surveys

**NV5**  
 NV5 ENGINEERS & CONSULTANTS, INC.  
 3300 REGENCY PARKWAY, SUITE 100  
 CARY, NC 27518  
 P. 919.851.1912 www.NV5.com  
 NC License # F 1133  
 Formerly CALCE 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 NOVEMBER 2021 TO MARCH 2022 .

-L-  
 PIs Sta 62+54.27 PI Sta 69+91.54  
 $\theta_s = 1^{\circ}12'36.5''$   $\Delta = 22^{\circ}22'30.5''$  (RT)  
 $L_s = 147.00'$   $D = 1^{\circ}38'47.1''$   
 $LT = 98.00'$   $L = 1,359.01'$   
 $ST = 49.00'$   $T = 688.27'$   
 $R = 3,480.00'$   
 $SE = 0.03$   
 $RO = 147'$



Location and Surveys

NV5

NV5 ENGINEERS & CONSULTANTS, INC.  
3300 REGENCY PARKWAY, SUITE 100  
CARY, NC 27518  
P: 919.851.1912 www.NV5.com

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

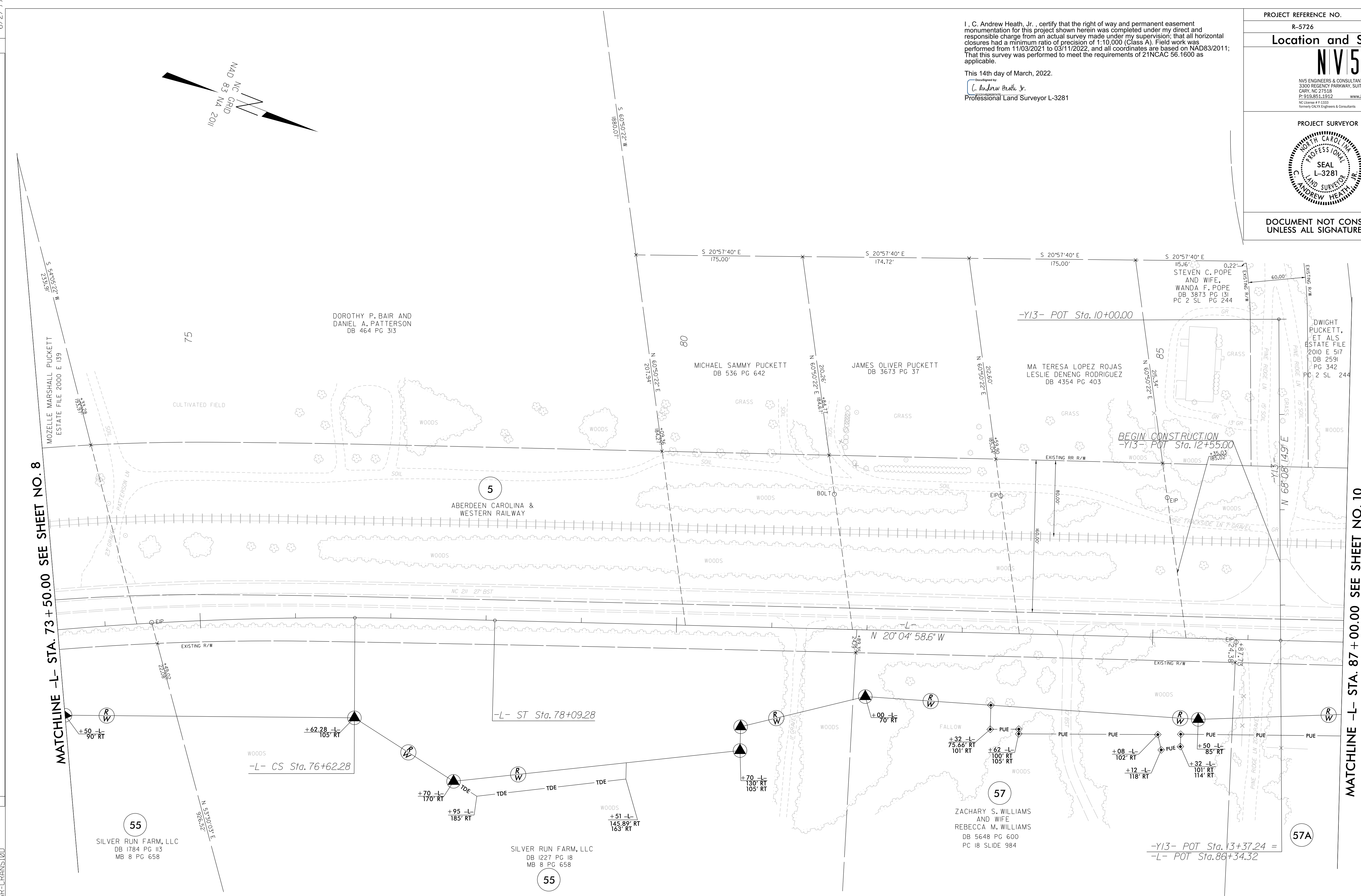
I, C. Andrew Heath, Jr., certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 11/03/2021 to 03/11/2022, and all coordinates are based on NAD83/2011; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 14th day of March, 2022.  
Designed by:  
C. Andrew Heath, Jr.  
Professional Land Surveyor L-3281

REVISIONS

MATCHLINE -L- STA. 73 + 50.00 SEE SHEET NO. 8

MATCHLINE -L- STA. 87 + 00.00 SEE SHEET NO. 10



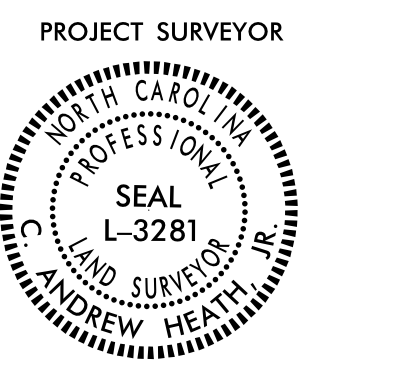
-L-  
PI Sta 69+91.54      PIs Sta 77+11.28  
Δ = 22' 22" 30.5" (RT)      Θs = 1' 12" 36.5"  
D = 1' 38" 47.1"      Ls = 147.00'  
L = 1,359.01'      LT = 98.00'  
T = 688.27'      ST = 49.00'  
R = 3,480.00'  
SE = 0.03  
RO = 147'

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 NOVEMBER 2021 TO MARCH 2022.

14-MAR-2022 07:57  
C:\p16\2021\2021014\_73\_SURV\w\_sheets\5726\_1s\_r\03.dgn  
scott@penford.com

Location and Surveys



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

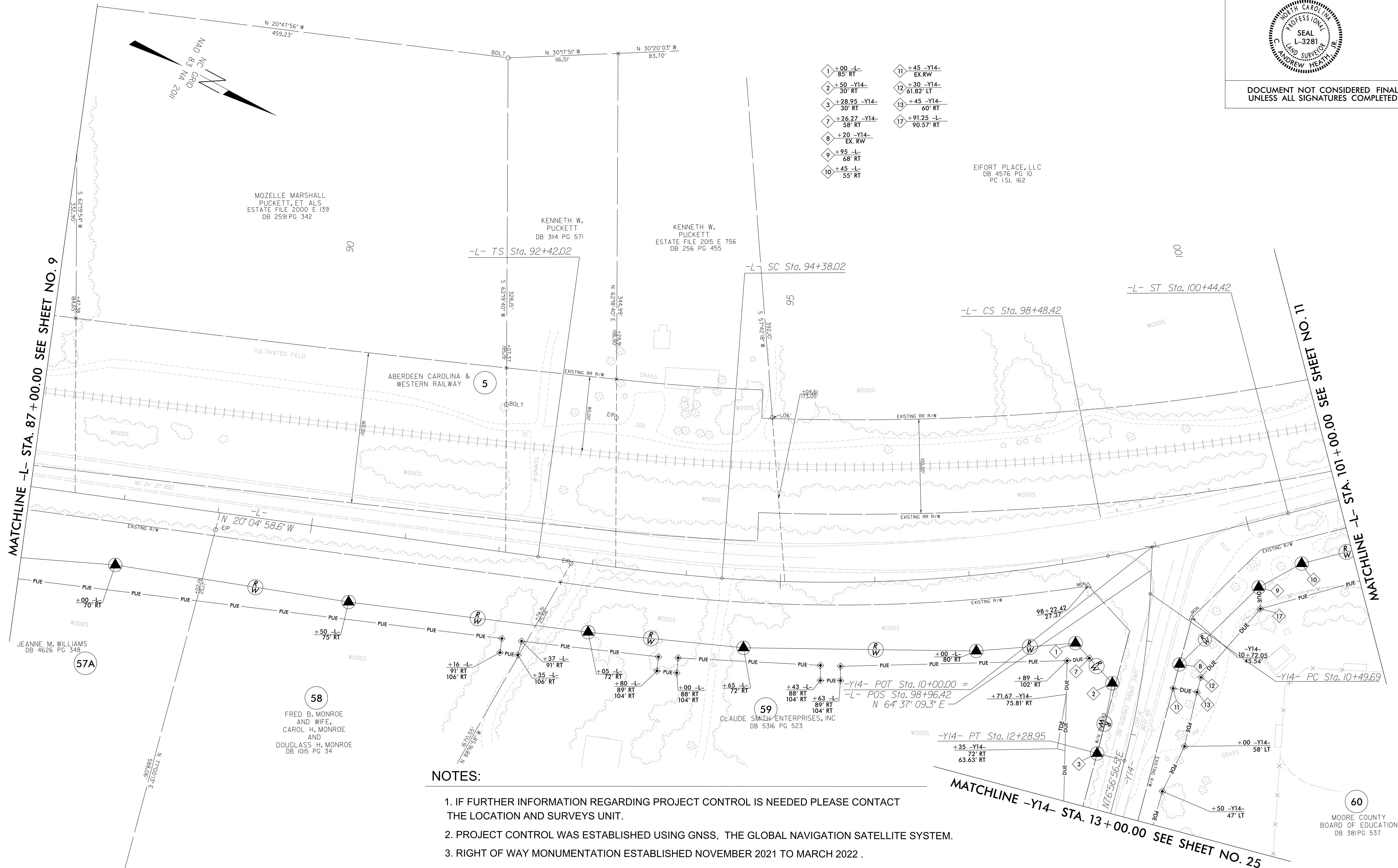
I, C. Andrew Heath, Jr., certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 11/03/2021 to 03/11/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 14th day of March, 2022.  
C. Andrew Heath, Jr.  
Professional Land Surveyor L-3281

-L-			-Y14-		
PIs Sta 93+72.72	PI Sta 96+44.42	PIs Sta 99+13.78	PI Sta 11+39.67		
$\Theta_s = 3^\circ 36' 47.7''$	$\Delta = 15^\circ 07' 53.3''$ (LT)	$\Theta_s = 3^\circ 36' 47.7''$	$\Delta = 12^\circ 19' 47.2''$ (RT)		
$L_s = 196.00'$	$D = 3^\circ 41' 13.2''$	$L_s = 196.00'$	$D = 6^\circ 52' 41.7''$		
$LT = 130.69'$	$L = 410.40'$	$LT = 130.69'$	$L = 179.26'$		
$ST = 65.36'$	$T = 206.40'$	$ST = 65.36'$	$T = 89.98'$		
	$R = 1,554.00'$		$R = 833.00'$		
	$SE = 0.04$				
	$RO = 196'$				

1 +00 -L- 85' RT	11 +45 -Y14- EX. RW
2 +50 -Y14- 30' RT	12 +30 -Y14- 61.82' LT
3 +28.95 -Y14- 30' RT	13 +45 -Y14- 60' RT
7 +26.27 -Y14- 58' RT	17 +91.25 -L- 90.57' RT
8 +20 -Y14- EX. RW	
9 +95 -L- 68' RT	
10 +45 -L- 55' RT	

EIFORT PLACE, LLC  
DB 4576 PG 10  
PC 1 SL 162



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 NOVEMBER 2021 TO MARCH 2022 .

REVISIONS

MATCHLINE -L- STA. 87 + 00.00 SEE SHEET NO. 9

MATCHLINE -L- STA. 101 + 00.00 SEE SHEET NO. 11

MATCHLINE -Y14- STA. 13 + 00.00 SEE SHEET NO. 25

14-MAR-2022 08:05  
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scott@cranford.com AT NCCAP-CRANFORD

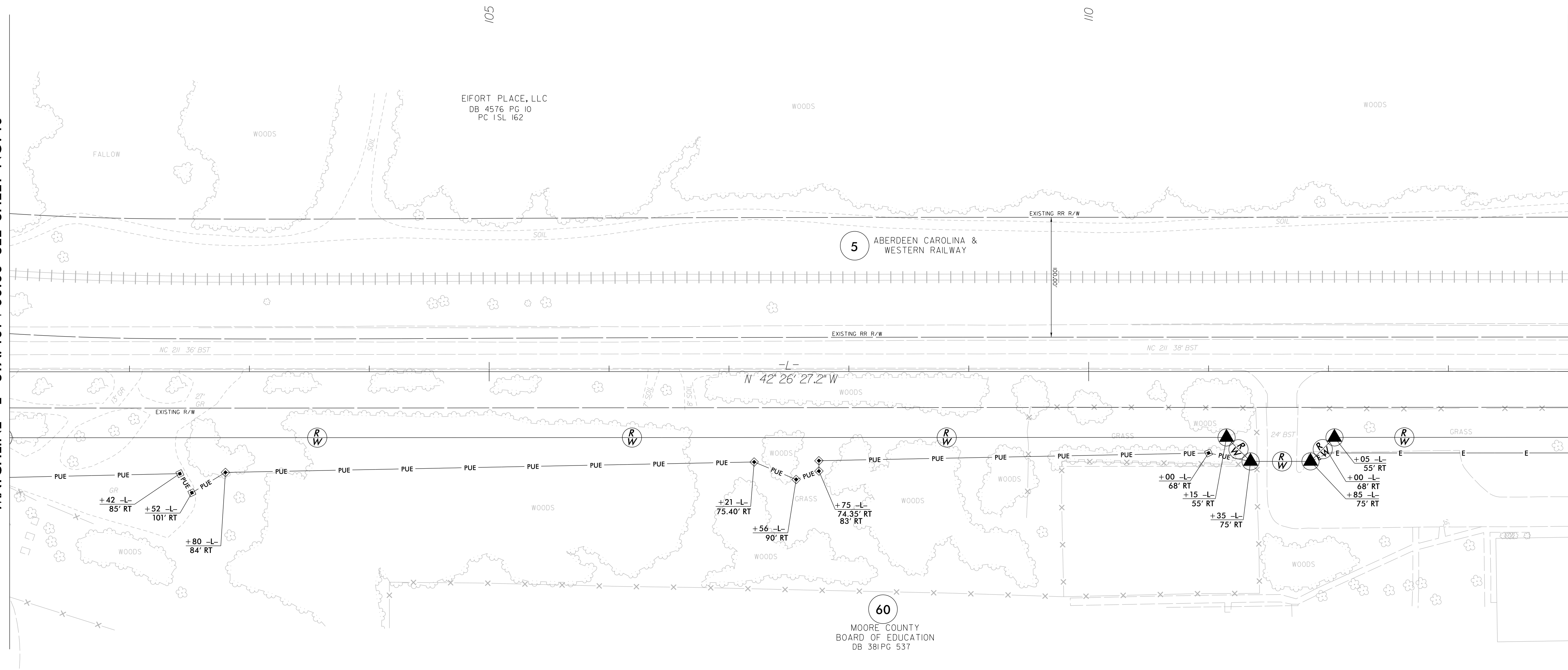
60  
MOORE COUNTY BOARD OF EDUCATION DB 381 PG 537

REVISIONS

REVISIONS

14-MAR-2022 08:10 C:\p1601\2021\2021014.73\SURV\w sheets\5726\_1s.rwl.dgn AT NCCAR-GRANS100 scott@eanford

MATCHLINE -L- STA. 101 +00.00 SEE SHEET NO. 10



MATCHLINE -L- STA. 114 +00.00 SEE SHEET NO. 12

I, C. Andrew Heath, Jr., certify that the right of way and permanent easement monumentation for this project shown herein 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 1:10,000 (Class A). Field work was performed from 11/03/2021 to 03/11/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 14th day of March, 2022.  
 C. Andrew Heath, Jr.  
 Professional Land Surveyor L-3281

PROJECT REFERENCE NO.	SHEET NO.
R-5726	RW11

Location and Surveys



PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NOTES:

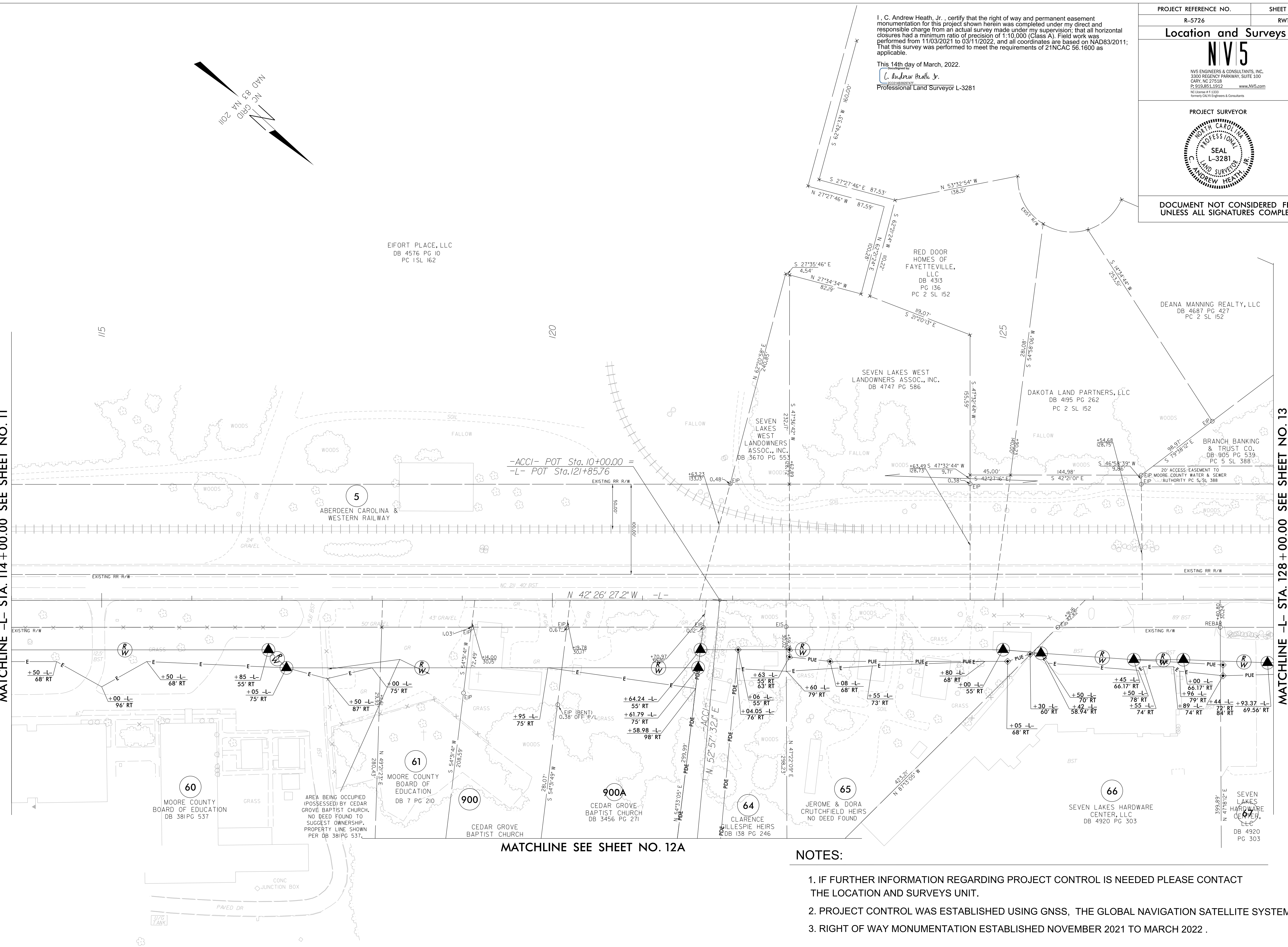
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED NOVEMBER 2021 TO MARCH 2022 .

6/2/09

REVISIONS

14-MAR-2022 08:53  
C:\p16\cck\2021\14-73\SURV\vw\_sheets\5726\_1s\_rw12.dgn  
AT NCCAP-GRANS100  
scott@cranford

MATCHLINE -L- STA. 114 + 00.00 SEE SHEET NO. 11



-ACCI- POT Sta. 10+00.00 =  
-L- POT Sta. 121+85.76

MATCHLINE SEE SHEET NO. 12A

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 NOVEMBER 2021 TO MARCH 2022 .

I, C. Andrew Heath, Jr., certify that the right of way and permanent easement monumentation for this project shown herein 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 1:10,000 (Class A). Field work was performed from 11/03/2021 to 03/11/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

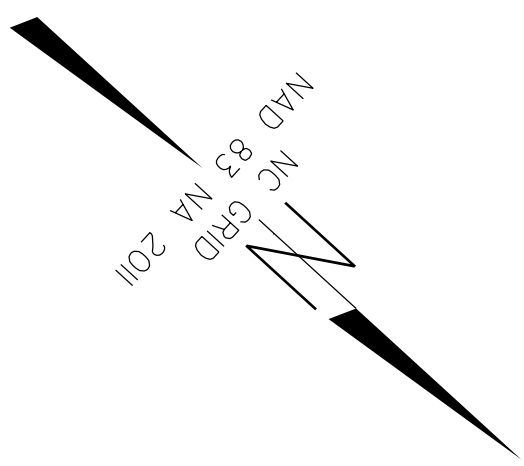
This 14th day of March, 2022.  
 C. Andrew Heath, Jr.  
 Professional Land Surveyor L-3281

PROJECT REFERENCE NO. R-5726	SHEET NO. RW12
<b>Location and Surveys</b>	
<b>NV5</b>	
NV5 ENGINEERS & CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 GARY, NC 27518 P 919.851.1912 www.NV5.com <small>NC License # F-1333          formerly C&amp;A Engineers &amp; Consultants</small>	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

MATCHLINE -L- STA. 128 + 00.00 SEE SHEET NO. 13


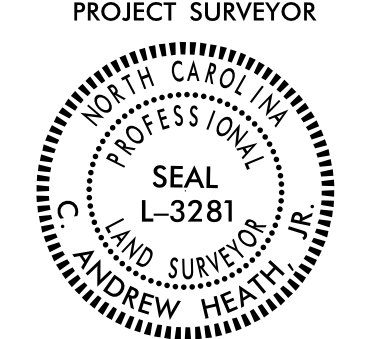
REVISIONS

14-MAR-2022 08:16 C:\p16\c1\2021\2021014.73\SURV\w\_sheets\5726\1s.rw12A.dgn AT\_NCCAR-CRANS100 scott@cranford

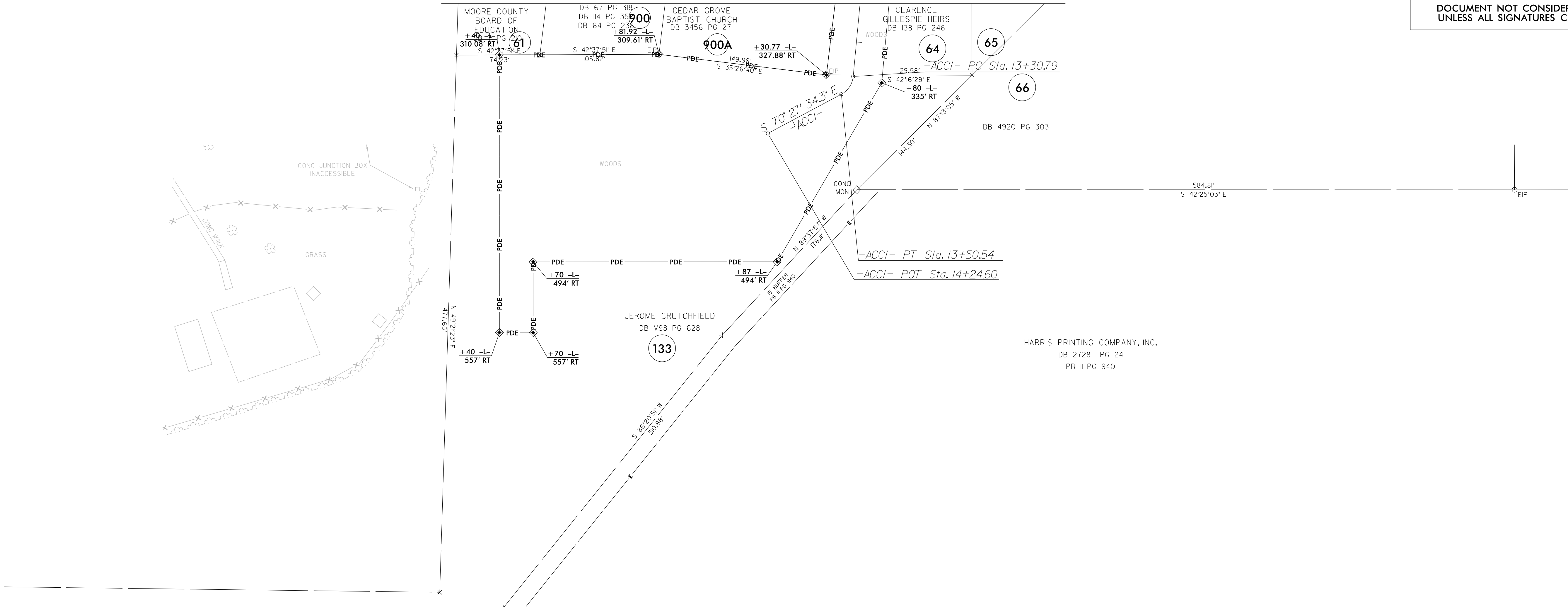


I, C. Andrew Heath, Jr., certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 11/03/2021 to 03/11/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 14th day of March, 2022.  
C. Andrew Heath, Jr.  
Professional Land Surveyor L-3281

PROJECT REFERENCE NO.	SHEET NO.
R-5726	RW12A
<b>Location and Surveys</b>	
 NV5 ENGINEERS & CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27518 P: 919.851.1912 www.NV5.com <small>NC License # F-1533 Surveying (CA) Engineers &amp; Consultants</small>	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

MATCHLINE SEE SHEET NO. 12



-ACCI-  
 PI Sta. 13+41.55  
 $\Delta = 56^{\circ}34'53.7''$  (RT)  
 $D = 286^{\circ}28'44.0''$   
 $L = 19.75'$   
 $T = 10.76'$   
 $R = 20.00'$

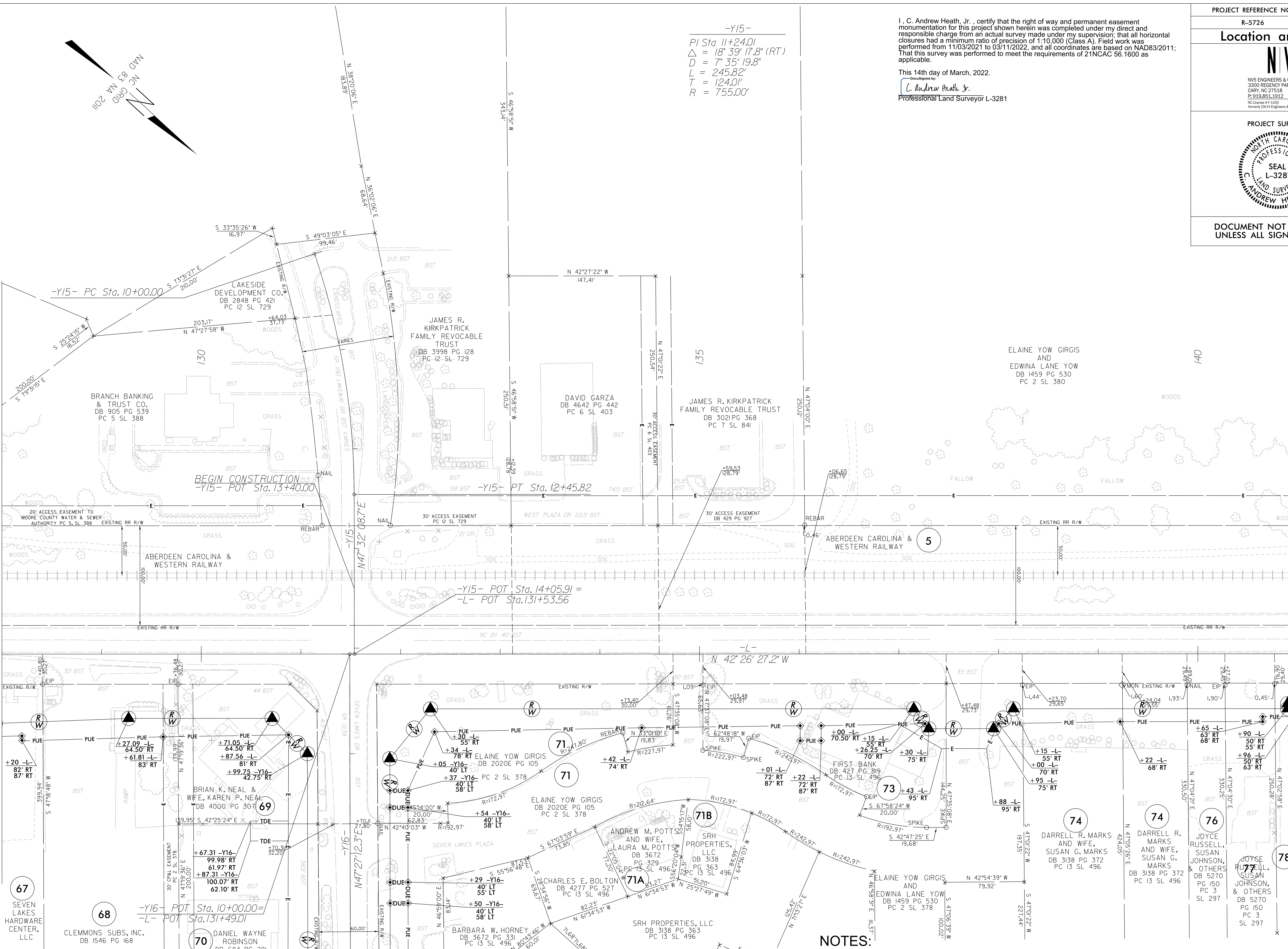
NOTES:

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 NOVEMBER 2021 TO MARCH 2022 .

REVISIONS

MATCHLINE -L- STA. 128 + 00.00 SEE SHEET NO. 12

MATCHLINE -L- STA. 141 + 00.00 SEE SHEET NO. 14



-Y15-  
 PI Sta 11+24.01  
 $\Delta = 18' 39'' 17.8'' (RT)$   
 $D = 7' 35'' 19.8''$   
 $L = 245.82'$   
 $T = 124.01'$   
 $R = 755.00'$

I, C. Andrew Heath, Jr., certify that the right of way and permanent easement monumentation for this project shown herein 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 1:10,000 (Class A). Field work was performed from 11/03/2021 to 03/11/2022, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.  
 This 14th day of March, 2022.  
 C. Andrew Heath, Jr.  
 Professional Land Surveyor L-3281

PROJECT REFERENCE NO. R-5726	SHEET NO. RW13
<b>Location and Surveys</b>	
<b>NV5</b>	
NV5 ENGINEERS & CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27518 P: 919.851.1912 www.NV5.com <small>NC License # F 1333          Member PLSA Engineers &amp; Consultants</small>	
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 NOVEMBER 2021 TO MARCH 2022 .

MATCHLINE -Y16- STA. 13 + 00.00 SEE SHEET NO. 26

67 SEVEN LAKES HARDWARE CENTER, LLC

68 CLEMMONS SUBS, INC. DB 1546 PG 168

70 DANIEL WAYNE ROBINSON DB 684 PG 281

69 BRIAN K. NEAL & WIFE, KAREN P. NEAL DB 4000 PG 307

71 ELAINE YOW GIRGIS AND WIFE, DB 2020E PG 105 PC 2 SL 378

71A CHARLES E. BOLTON DB 4277 PG 527 PC 13 SL 496

71B ANDREW M. POTT AND WIFE, LAURA M. POTT DB 3672 PG 329 PC 13 SL 496

73 SRH PROPERTIES, LLC DB 3138 PG 363 PC 13 SL 496

74 ELAINE YOW GIRGIS AND EDWINA LANE YOW DB 1459 PG 530 PC 2 SL 378

74 DARRELL R. MARKS AND WIFE, SUSAN G. MARKS DB 3138 PG 372 PC 13 SL 496

74 DARRELL R. MARKS AND WIFE, SUSAN G. MARKS DB 3138 PG 372 PC 13 SL 496

76 JOYCE RUSSELL, SUSAN JOHNSON, & OTHERS DB 5270 PG 150 PC 3 SL 297

78 JOYCE RUSSELL, SUSAN JOHNSON, & OTHERS DB 5270 PG 150 PC 3 SL 297

REVISIONS


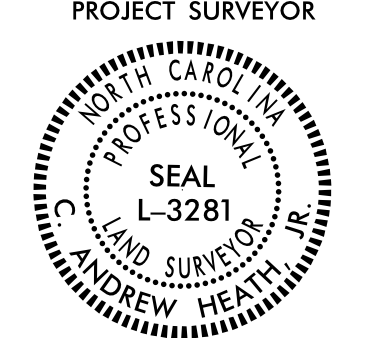
-L-

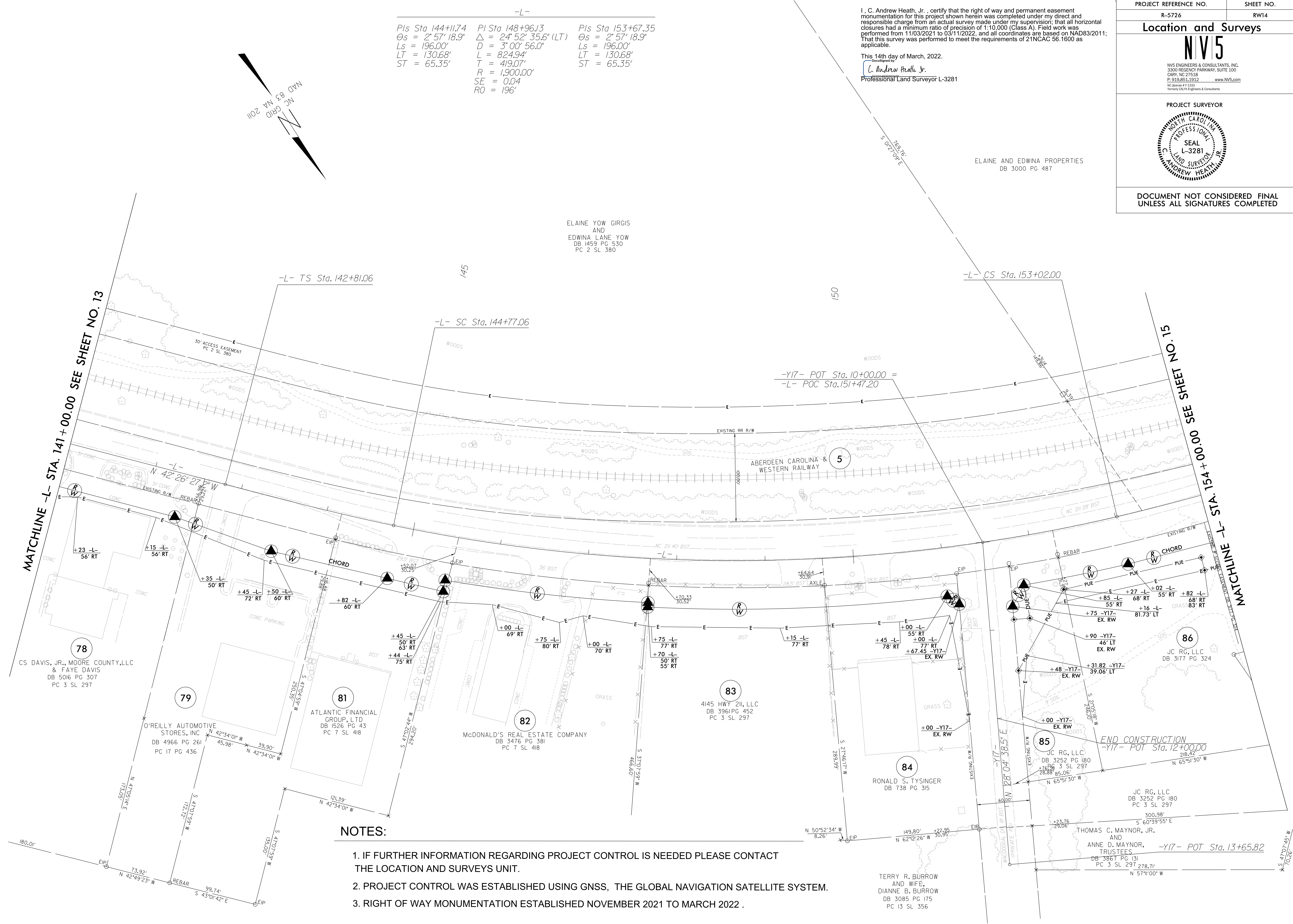
Pls Sta 144+11.74	PI Sta 148+96.13	Pls Sta 153+67.35
$\theta_s = 2^\circ 57' 18.9"$	$\Delta = 24^\circ 52' 35.6"$ (LT)	$\theta_s = 2^\circ 57' 18.9"$
$L_s = 196.00'$	$D = 3^\circ 00' 56.0"$	$L_s = 196.00'$
$LT = 130.68'$	$L = 824.94'$	$LT = 130.68'$
$ST = 65.35'$	$T = 419.07'$	$ST = 65.35'$
	$R = 1,900.00'$	
	$SE = 0.04$	
	$RO = 196'$	

I, C. Andrew Heath, Jr., certify that the right of way and permanent easement monumentation for this project shown herein 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 1:10,000 (Class A). Field work was performed from 11/03/2021 to 03/11/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 14th day of March, 2022.

C. Andrew Heath, Jr.  
Professional Land Surveyor L-3281

PROJECT REFERENCE NO. R-5726	SHEET NO. RW14
<b>Location and Surveys</b>	
 NV5 ENGINEERS & CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 GARY, NC 27518 P: 919.851.1912 www.NV5.com <small>NC License # F-1333 Internship # 2470 Engineers &amp; Consultants</small>	
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 NOVEMBER 2021 TO MARCH 2022 .

ELAINE AND EDWINA PROPERTIES  
DB 3000 PG 487

ELAINE YOW GIRGIS  
AND  
EDWINA LANE YOW  
DB 1459 PG 530  
PC 2 SL 380

-Y17- POT Sta.10+00.00 =  
-L- POC Sta.151+47.20

MATCHLINE -L- STA. 141+00.00 SEE SHEET NO. 13

MATCHLINE -L- STA. 154+00.00 SEE SHEET NO. 15

78  
CS DAVIS, JR., MOORE COUNTY, LLC  
& FAYE DAVIS  
DB 5016 PG 307  
PC 3 SL 297

79  
O'REILLY AUTOMOTIVE  
STORES, INC  
DB 4966 PG 261  
PC 17 PG 436

81  
ATLANTIC FINANCIAL  
GROUP, LTD  
DB 1526 PG 43  
PC 7 SL 418

82  
MCDONALD'S REAL ESTATE COMPANY  
DB 3476 PG 381  
PC 7 SL 418

83  
4145 HWY 211, LLC  
DB 3961 PG 452  
PC 3 SL 297

84  
RONALD S. TYSINGER  
DB 738 PG 315

85  
JC RG, LLC  
DB 3252 PG 180  
PC 3 SL 297

86  
JC RG, LLC  
DB 3177 PG 324

JC RG, LLC  
DB 3252 PG 180  
PC 3 SL 297

THOMAS C. MAYNOR, JR.  
AND  
ANNE D. MAYNOR,  
TRUSTEES  
DB 3867 PG 131  
PC 3 SL 297 278.71'  
N 57°1'00" W

TERRY R. BURROW  
AND WIFE,  
DIANNE B. BURROW  
DB 3085 PG 175  
PC 13 SL 356

-Y17- POT Sta.13+65.82

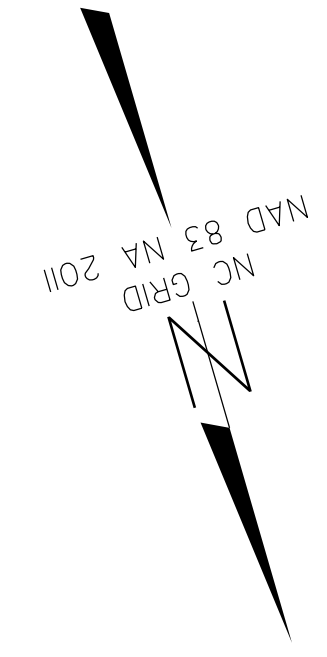
6/2/09

PROJECT REFERENCE NO.	SHEET NO.
R-5726	RW15
<b>Location and Surveys</b>	
<b>NV5</b>	
<small>NVS ENGINEERS &amp; CONSULTANTS, INC.          3300 REGENCY PARKWAY, SUITE 100          CARY, NC 27518          P: 919.851.1912 www.NV5.com          NC License # P-2333          Member, N.C. Engineers &amp; Consultants</small>	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, C. Andrew Heath, Jr., certify that the right of way and permanent easement monumentation for this project shown herein 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 1:10,000 (Class A). Field work was performed from 11/03/2021 to 03/11/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 14th day of March, 2022.

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

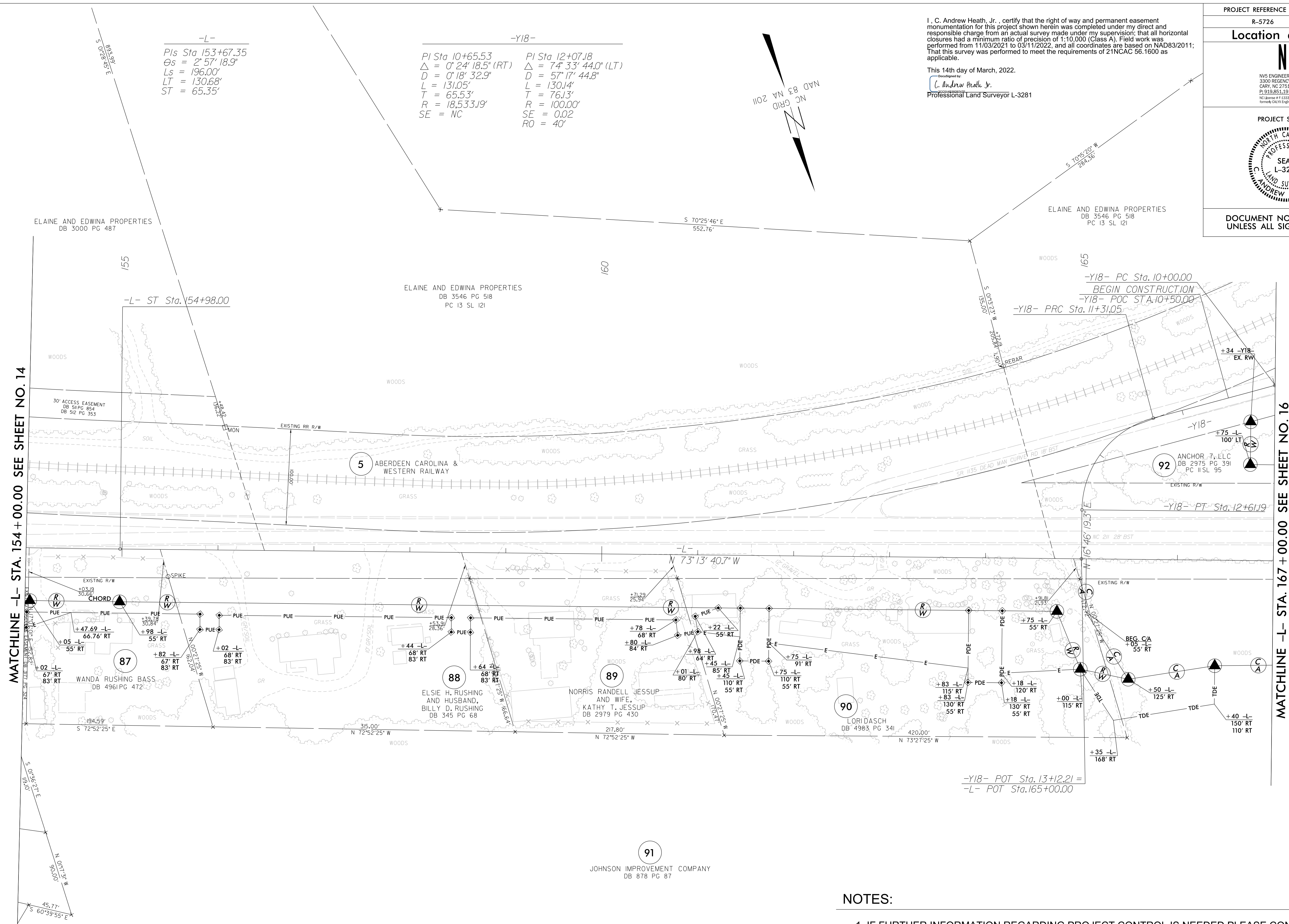


**-L-**

PIs Sta 153+67.35  
 $\Theta_s = 2^\circ 57' 18.9''$   
 $L_s = 196.00'$   
 $LT = 130.68'$   
 $ST = 65.35'$

**-Y18-**

PI Sta 10+65.53      PI Sta 12+07.18  
 $\Delta = 0^\circ 24' 18.5''$  (RT)       $\Delta = 74^\circ 33' 44.0''$  (LT)  
 $D = 0^\circ 18' 32.9''$        $D = 57^\circ 17' 44.8''$   
 $L = 131.05'$        $L = 130.14'$   
 $T = 65.53'$        $T = 76.13'$   
 $R = 18,533.19'$        $R = 100.00'$   
 $SE = NC$        $SE = 0.02$   
 $RO = 40'$



MATCHLINE -L- STA. 154+00.00 SEE SHEET NO. 14

MATCHLINE -L- STA. 167+00.00 SEE SHEET NO. 16

REVISIONS

14-MAR-2022 08:34  
 G:\Projects\2021\2021014\_73\_SURV\w\_sheets\5726\1s\_rw15.dgn  
 AT: NCCAP-CRANS100  
 scott@cranford.com

91  
 JOHNSON IMPROVEMENT COMPANY  
 DB 878 PG 87

**NOTES:**

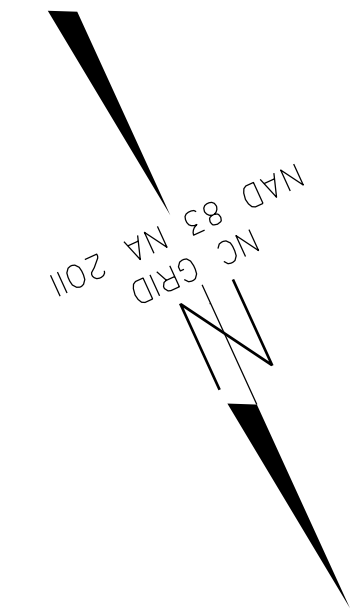
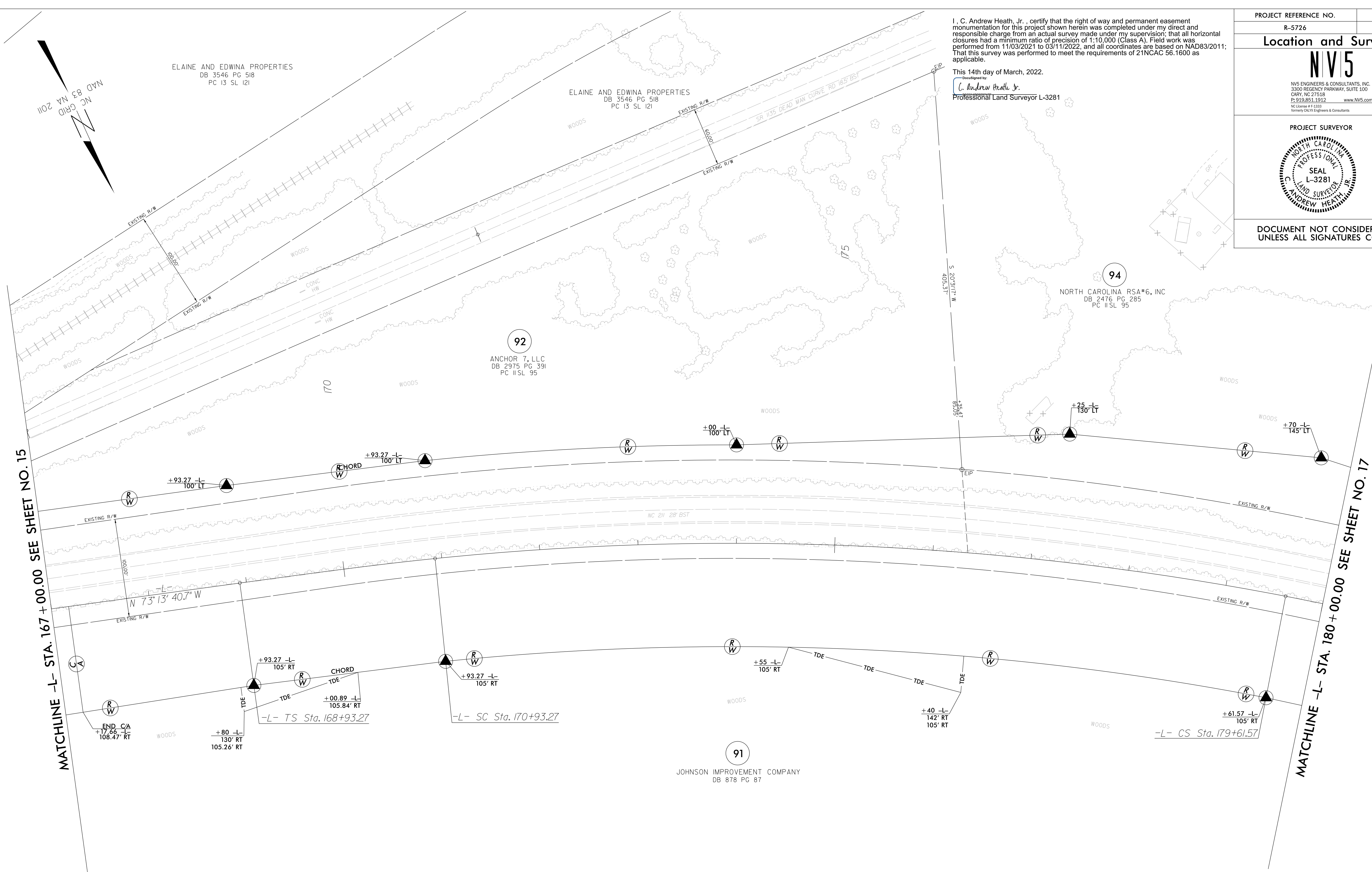
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED NOVEMBER 2021 TO MARCH 2022.



6/2/19

14-MAR-2022 08:39  
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scott@penford  
AT NCCAP-GRANS100

REVISIONS  
REVISIONS



ELAINE AND EDWINA PROPERTIES  
DB 3546 PG 518  
PC 13 SL 121

ELAINE AND EDWINA PROPERTIES  
DB 3546 PG 518  
PC 13 SL 121

92  
ANCHOR 7, LLC  
DB 2975 PG 391  
PC 11 SL 95

94  
NORTH CAROLINA RSA#6, INC  
DB 2476 PG 285  
PC 11 SL 95

91  
JOHNSON IMPROVEMENT COMPANY  
DB 878 PG 87

I, C. Andrew Heath, Jr., certify that the right of way and permanent easement monumentation for this project shown herein 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 1:10,000 (Class A). Field work was performed from 11/03/2021 to 03/11/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 14th day of March, 2022.  
C. Andrew Heath, Jr.  
Professional Land Surveyor L-3281

PROJECT REFERENCE NO. R-5726	SHEET NO. RW16
<b>Location and Surveys</b>	
<b>NV5</b>	
<small>NV5 ENGINEERS &amp; CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARR, NC 27518 P: 919.851.1912 www.NV5.com NC License # F-1533 Surveying &amp; Engineering Consultants</small>	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-L-

Pls Sta 170+26.61 θs = 1° 56' 08.4" Ls = 200.00' LT = 133.34' ST = 66.67'	PI Sta 175+30.56 Δ = 16° 48' 26.4" (RT) D = 1° 56' 08.4" L = 868.30' T = 437.29' R = 2,960.00' SE = 0.05 RO = 200'	Pls Sta 180+28.24 θs = 1° 56' 08.4" Ls = 200.00' LT = 133.34' ST = 66.67'
---	---	---

**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 NOVEMBER 2021 TO MARCH 2022 .

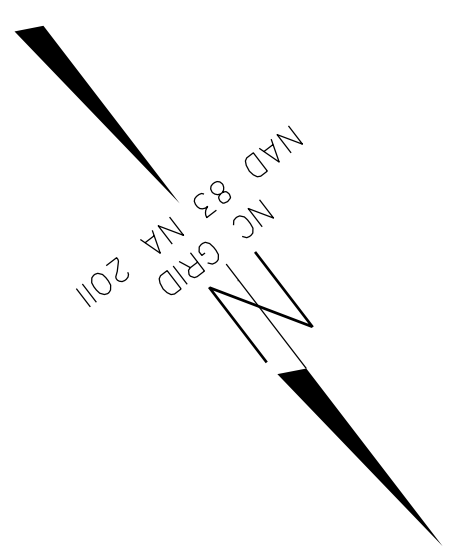
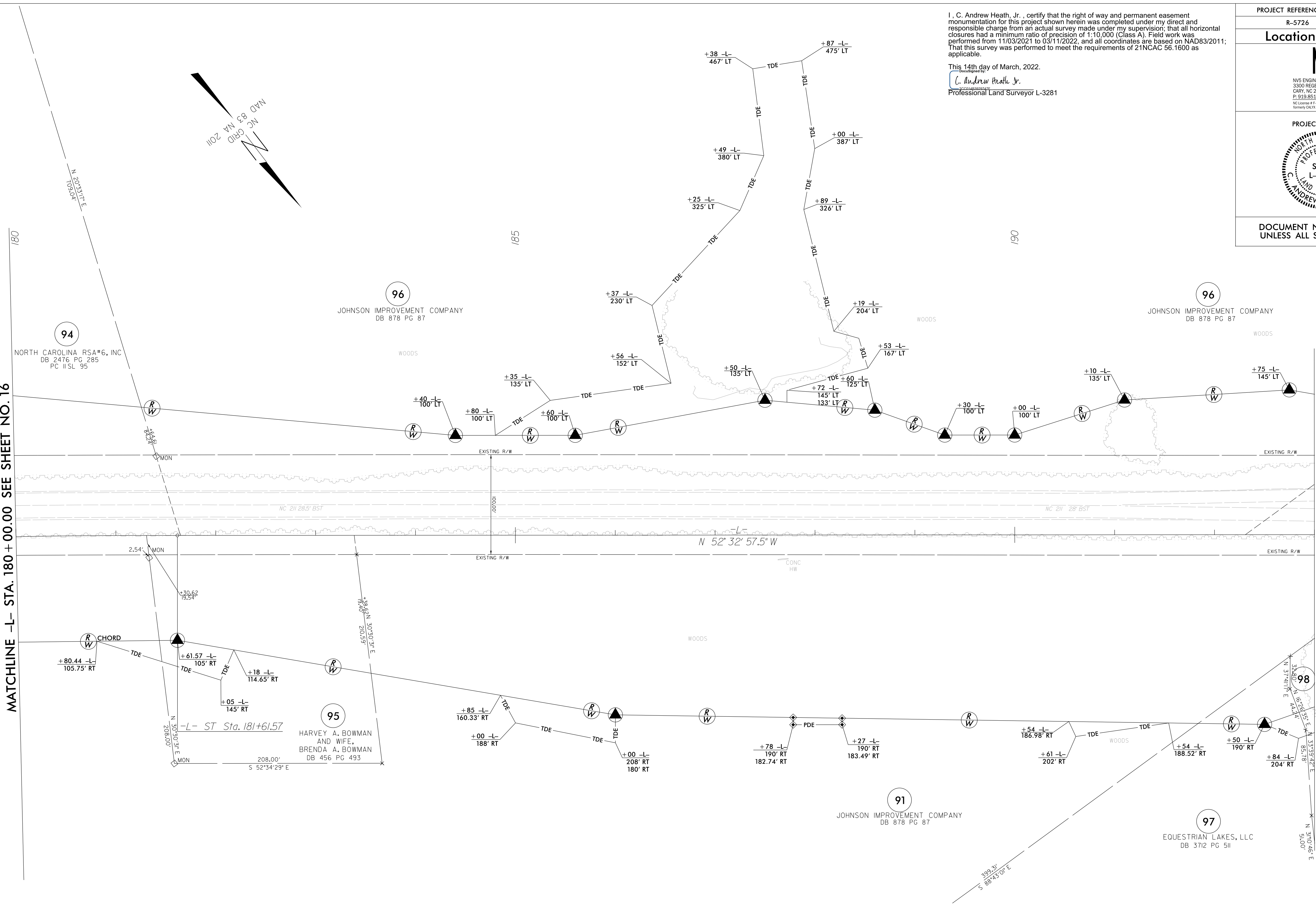
6/2/09

REVISIONS

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scott@enford.com  
AT NCCAP-GRANS100

MATCHLINE -L- STA. 180 + 00.00 SEE SHEET NO. 16


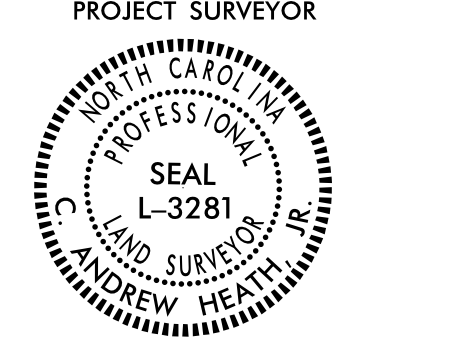
MATCHLINE -L- STA. 193 + 00.00 SEE SHEET NO. 18



I, C. Andrew Heath, Jr., certify that the right of way and permanent easement monumentation for this project shown herein 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 1:10,000 (Class A). Field work was performed from 11/03/2021 to 03/11/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 14th day of March, 2022.

C. Andrew Heath, Jr.  
Professional Land Surveyor L-3281

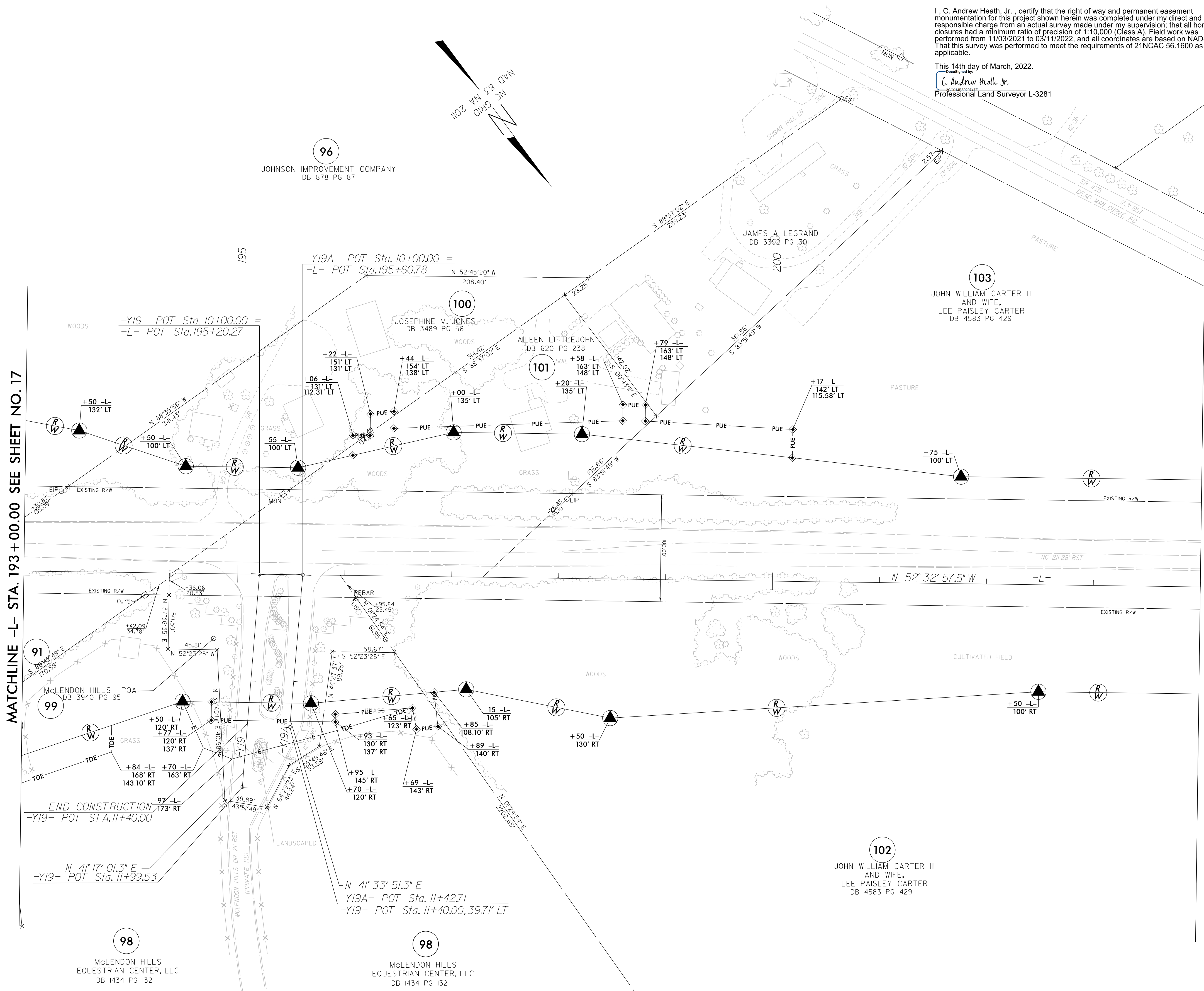
PROJECT REFERENCE NO. R-5726	SHEET NO. RW17
<b>Location and Surveys</b>	
 NVIS ENGINEERS & CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CHAPEL HILL, NC 27518 P. 919.851.1912 www.nvis.com <small>NC License # F-1333 Member, NCEES Engineers &amp; Consultants</small>	
PROJECT SURVEYOR 	
DOCUMENT NOT 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 NOVEMBER 2021 TO MARCH 2022 .

REVISIONS

14-MAR-2022 08:45  
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scott@cranford.com



I, C. Andrew Heath, Jr., certify that the right of way and permanent easement monumentation for this project shown herein 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 1:10,000 (Class A). Field work was performed from 11/03/2021 to 03/11/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 14th day of March, 2022.

Designed by:  
C. Andrew Heath, Jr.  
Professional Land Surveyor L-3281

PROJECT REFERENCE NO. R-5726	SHEET NO. RW18
<b>Location and Surveys</b>	
<p>NV5 ENGINEERS &amp; CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27518 P: 919.851.1912 www.NV5.com NC License # F-1533 Formerly CVLN Engineers &amp; Consultants</p>	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

MATCHLINE -L- STA. 193 + 00.00 SEE SHEET NO. 17

MATCHLINE -L- STA. 204 + 00.00 SEE SHEET NO. 19

-Y19-  
PI Sta 12+80.88  
Δ = 13° 38' 35.1" (LT)  
D = 8° 25' 33.1"  
L = 161.92'  
T = 81.34'  
R = 680.00'

- 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 NOVEMBER 2021 TO MARCH 2022.

KENNETH L. SMITH AND WIFE, GLORIA H. SMITH DB 430 PG 458

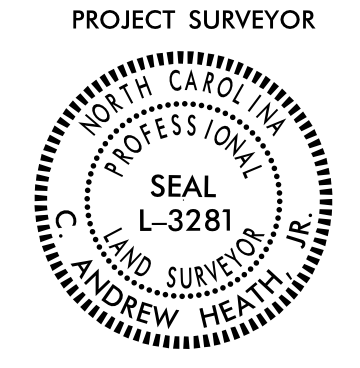
CARLTON R. SMITH ESTATE

NAD 83 GRID  
N 102° 38' 00" W  
N 02° 00' 00" E

I, C. Andrew Heath, Jr., certify that the right of way and permanent easement monumentation for this project shown herein 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 1:10,000 (Class A). Field work was performed from 11/03/2021 to 03/11/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 14th day of March, 2022.  
C. Andrew Heath, Jr.  
Professional Land Surveyor L-3281

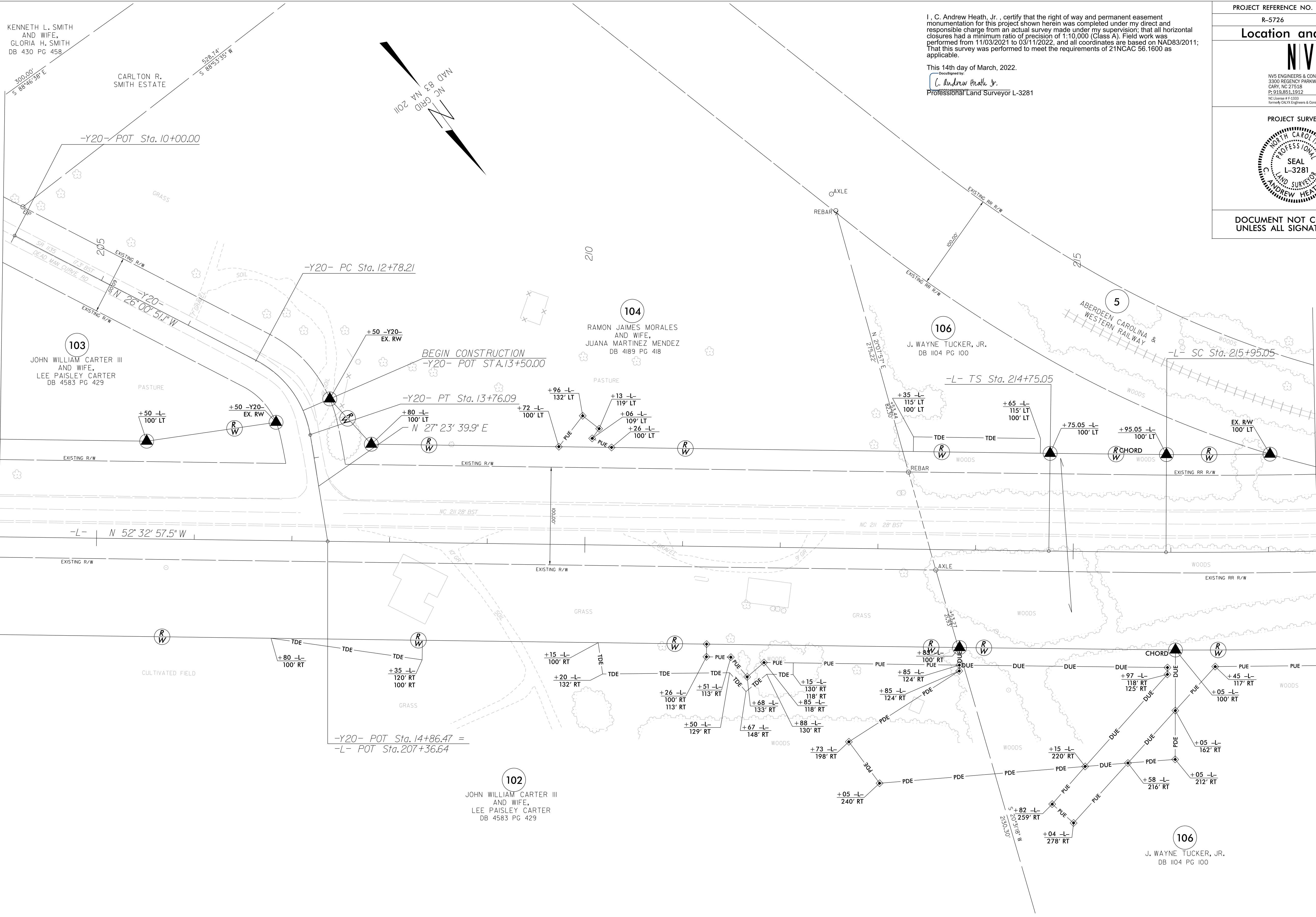
Location and Surveys



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MATCHLINE -L- STA. 204 + 00.00 SEE SHEET NO. 18

MATCHLINE -L- STA. 217 + 50.00 SEE SHEET NO. 20



-L-	-Y20-
PI Sta 215+55.05	PI Sta 13+31.03
$\theta_s = 0^\circ 31' 44.0''$	$\Delta = 53^\circ 24' 31.0'' (RT)$
$L_s = 120.00'$	$D = 0^\circ 52' 53.3''$
$LT = 80.00'$	$L = 922.59'$
$ST = 40.00'$	$T = 462.07'$
	$R = 6,500.00'$
	$SE = 0.03$
	$RO = 120'$

NOTES:

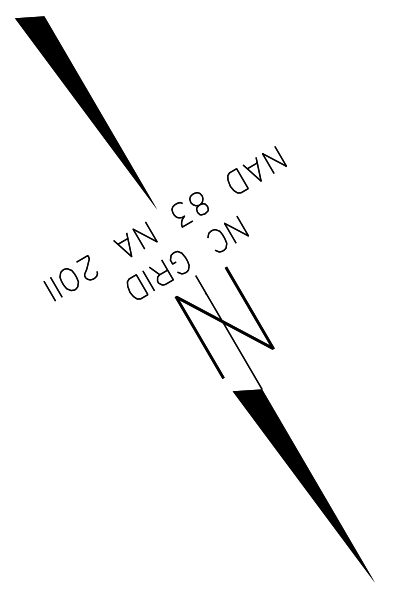
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED NOVEMBER 2021 TO MARCH 2022 .

REVISIONS

6/2/19

REVISIONS

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scott@carolina.com



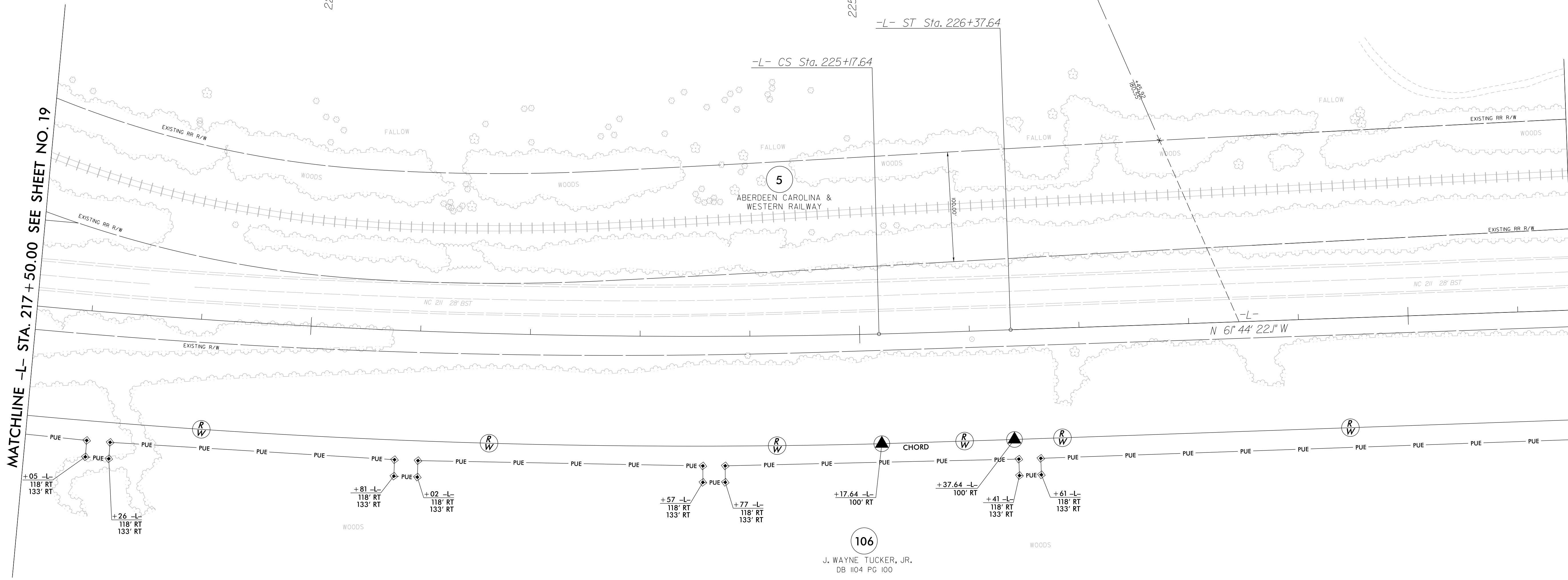
LACY CHAPPELL  
AND  
PAT CHAPPELL  
DB 175 PG 159

LACY CHAPPELL  
AND  
PAT CHAPPELL  
DB 175 PG 159

I, C. Andrew Heath, Jr., certify that the right of way and permanent easement  
monumentation for this project shown herein 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 1:10,000 (Class A). Field work was  
performed from 11/03/2021 to 03/11/2022, and all coordinates are based on NAD83/2011;  
That this survey was performed to meet the requirements of 21NCAC 56.1600 as  
applicable.

This 14th day of March, 2022.  
C. Andrew Heath Jr.  
Professional Land Surveyor L-3281

PROJECT REFERENCE NO. R-5726	SHEET NO. RW20
<b>Location and Surveys</b>	
<b>NVS</b>	
<small>NVS ENGINEERS &amp; CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27518 P: 919.851.1912 www.NVS.com NC License # F-1333 Member: IACM, Engineers &amp; Consultants</small>	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



106  
J. WAYNE TUCKER, JR.  
DB 1104 PG 100

-L-

PI Sta 220+57.12	PIs Sta 225+57.64
$\Delta = 8^{\circ} 07' 56.7'' (LT)$	$\Theta_s = 0^{\circ} 31' 44.0''$
$D = 0^{\circ} 52' 53.3''$	$L_s = 120.00'$
$L = 922.59'$	$LT = 80.00'$
$T = 462.07'$	$ST = 40.00'$
$R = 6,500.00'$	
$SE = 0.03$	
$RO = 120'$	

**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 NOVEMBER 2021 TO MARCH 2022 .

MATCHLINE -L- STA. 217 + 50.00 SEE SHEET NO. 19

MATCHLINE -L- STA. 231 + 50.00 SEE SHEET NO. 21

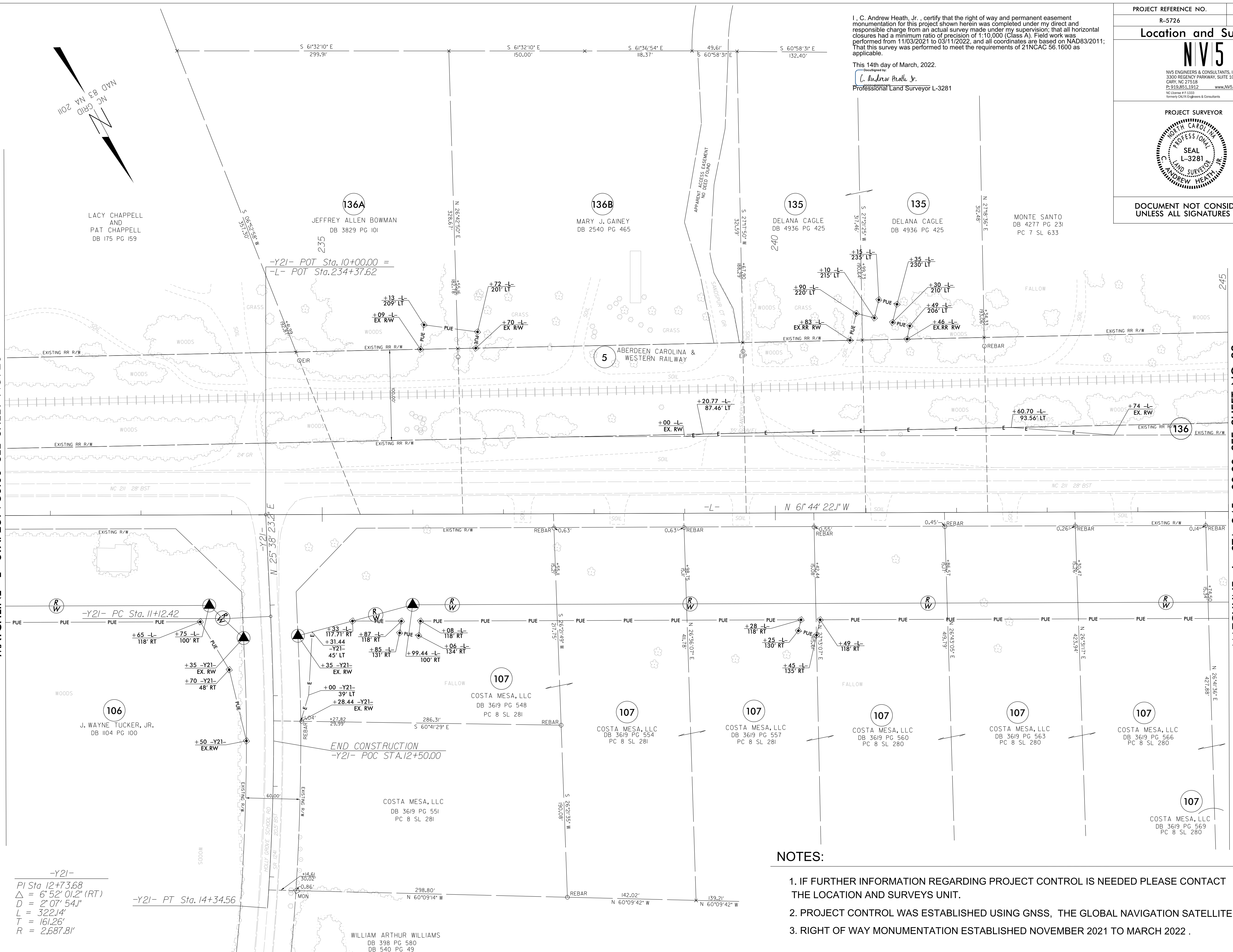
6/2/09

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scott@eastford.com

REVISIONS

MATCHLINE -L- STA. 231+50.00 SEE SHEET NO. 20

MATCHLINE -L- STA. 245+00.00 SEE SHEET NO. 22



-Y21-  
 PI Sta 12+73.68  
 $\Delta = 6' 52'' 01.2''$  (RT)  
 $D = 2' 07'' 54.1''$   
 $L = 322.14'$   
 $T = 161.26'$   
 $R = 2,687.81'$

-Y21- PT Sta. 14+34.56

END CONSTRUCTION  
 -Y21- POC STA. 12+50.00

I, C. Andrew Heath, Jr., certify that the right of way and permanent easement monumentation for this project shown herein 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 1:10,000 (Class A). Field work was performed from 11/03/2021 to 03/11/2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 14th day of March, 2022.  
 C. Andrew Heath, Jr.  
 Professional Land Surveyor L-3281

PROJECT REFERENCE NO. R-5726	SHEET NO. RW21
<b>Location and Surveys</b>	
<b>NV5</b>	
<small>NVS ENGINEERS &amp; CONSULTANTS, INC.        3300 REGENCY PARKWAY, SUITE 100        CARRI, NC 27518        P: 919.851.1912 www.NV5.com        NC License # F-1333        Formerly C&amp;N Engineers &amp; Consultants</small>	
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 NOVEMBER 2021 TO MARCH 2022 .

Location and Surveys



PROJECT SURVEYOR

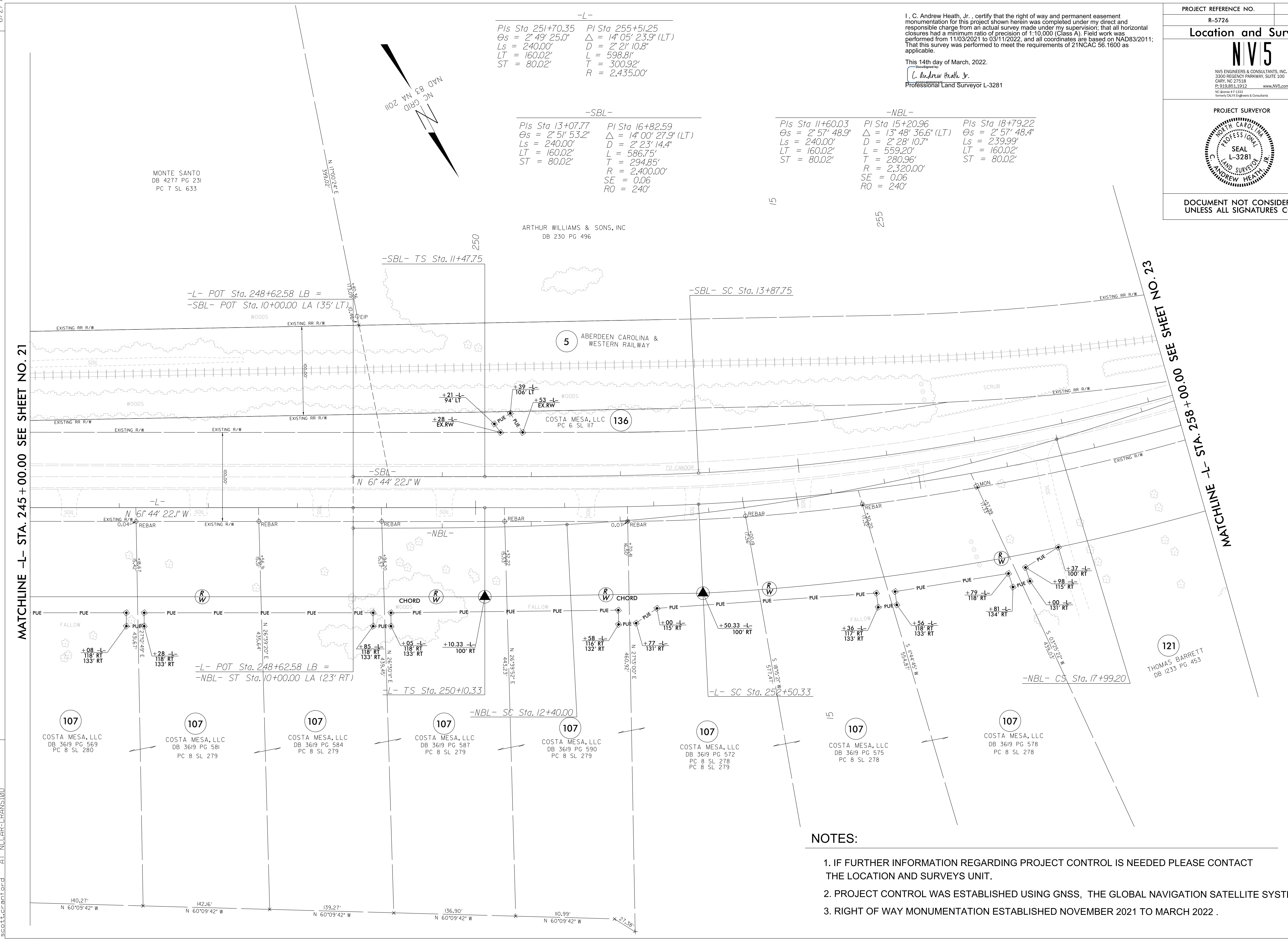
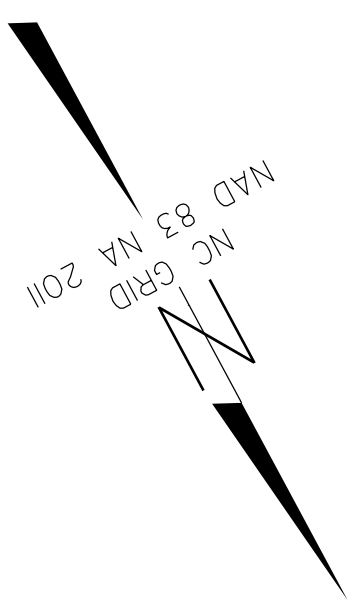
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, C. Andrew Heath, Jr., certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision...

-L-
Pls Sta 251+70.35 PI Sta 255+51.25
Theta\_s = 2° 49' 25.0" Delta = 14° 05' 23.9" (LT)
Ls = 240.00' D = 2° 21' 10.8"
LT = 160.02' L = 598.81'
ST = 80.02' T = 300.92'
R = 2,435.00'

-SBL-
Pls Sta 13+07.77 PI Sta 16+82.59
Theta\_s = 2° 51' 53.2" Delta = 14° 00' 27.9" (LT)
Ls = 240.00' D = 2° 23' 14.4"
LT = 160.02' L = 586.75'
ST = 80.02' T = 294.85'
R = 2,400.00'
SE = 0.06
RO = 240'

-NBL-
Pls Sta 11+60.03 PI Sta 15+20.96 PIs Sta 18+79.22
Theta\_s = 2° 57' 48.9" Delta = 13° 48' 36.6" (LT) Theta\_s = 2° 57' 48.4"
Ls = 240.00' D = 2° 28' 10.7" Ls = 239.99'
LT = 160.02' L = 559.20' LT = 160.02'
ST = 80.02' T = 280.96' ST = 80.02'
R = 2,320.00'
SE = 0.06
RO = 240'



MATCHLINE -L- STA. 245 + 00.00 SEE SHEET NO. 21

MATCHLINE -L- STA. 258 + 00.00 SEE SHEET NO. 23

REVISIONS

14-MAR-2022 09:03
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scott@cranford.com

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 NOVEMBER 2021 TO MARCH 2022.