

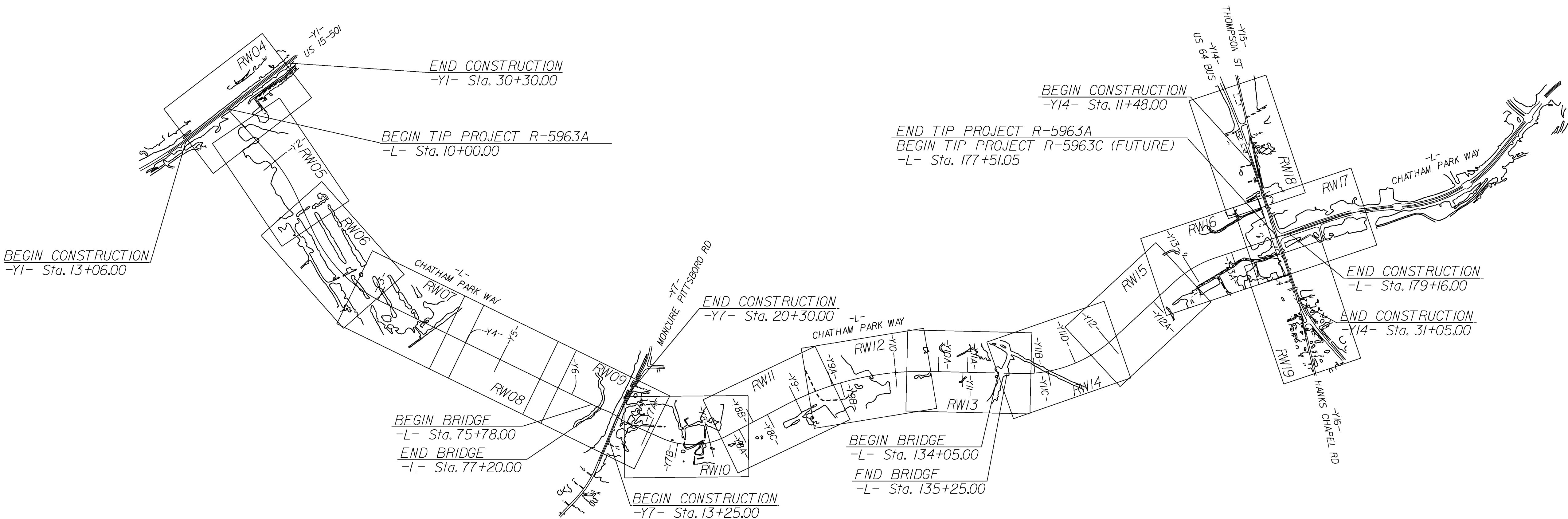
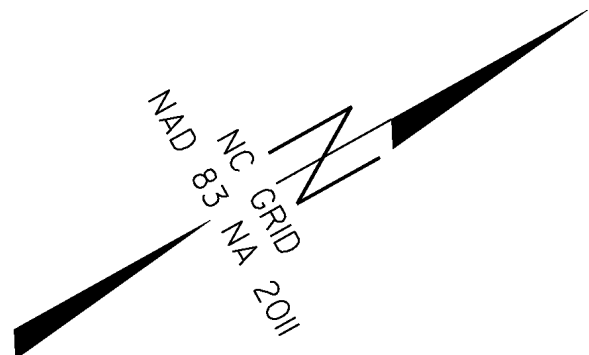
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5963A&B	RW01	25

TIP PROJECT: R-5963A&B

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SURVEY CONTROL, EXISTING CENTERLINES,
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

CHATHAM COUNTY



THIS IS A LIMITED CONTROLLED ACCESS PROJECT WITH ACCESS LIMITED TO POINTS AS SHOWN ON THE PLANS
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "R5930-1" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 721,723.517(ft) EASTING: 1,956,011.320(ft) ELEVATION: 539.764(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999886829

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R-5930-1" TO -L- STATION 10+00.00 IS S 27°-29'14.5" W 18,978.67(ft)

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES

VERTICAL DATUM USED IS NAVD 88-GEOID 12B

Prepared in the Office of:

NIV5

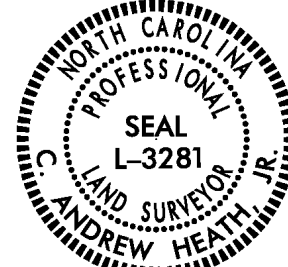
NIVS ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1312 F: 919.851.1312
www.NIVS.com
NC License # F-1333
Formerly GKS Engineers & Consultants

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JULY 19, 2024

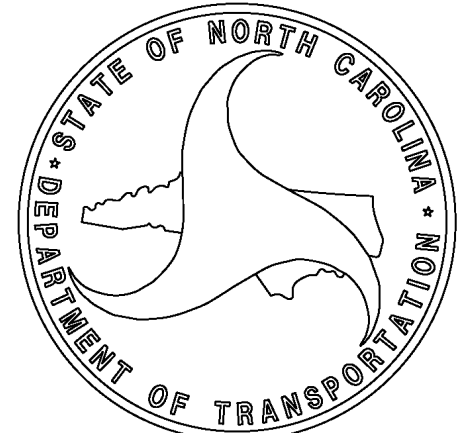
LETTING DATE:
MARCH 20, 2025

PROFESSIONAL LAND SURVEYOR



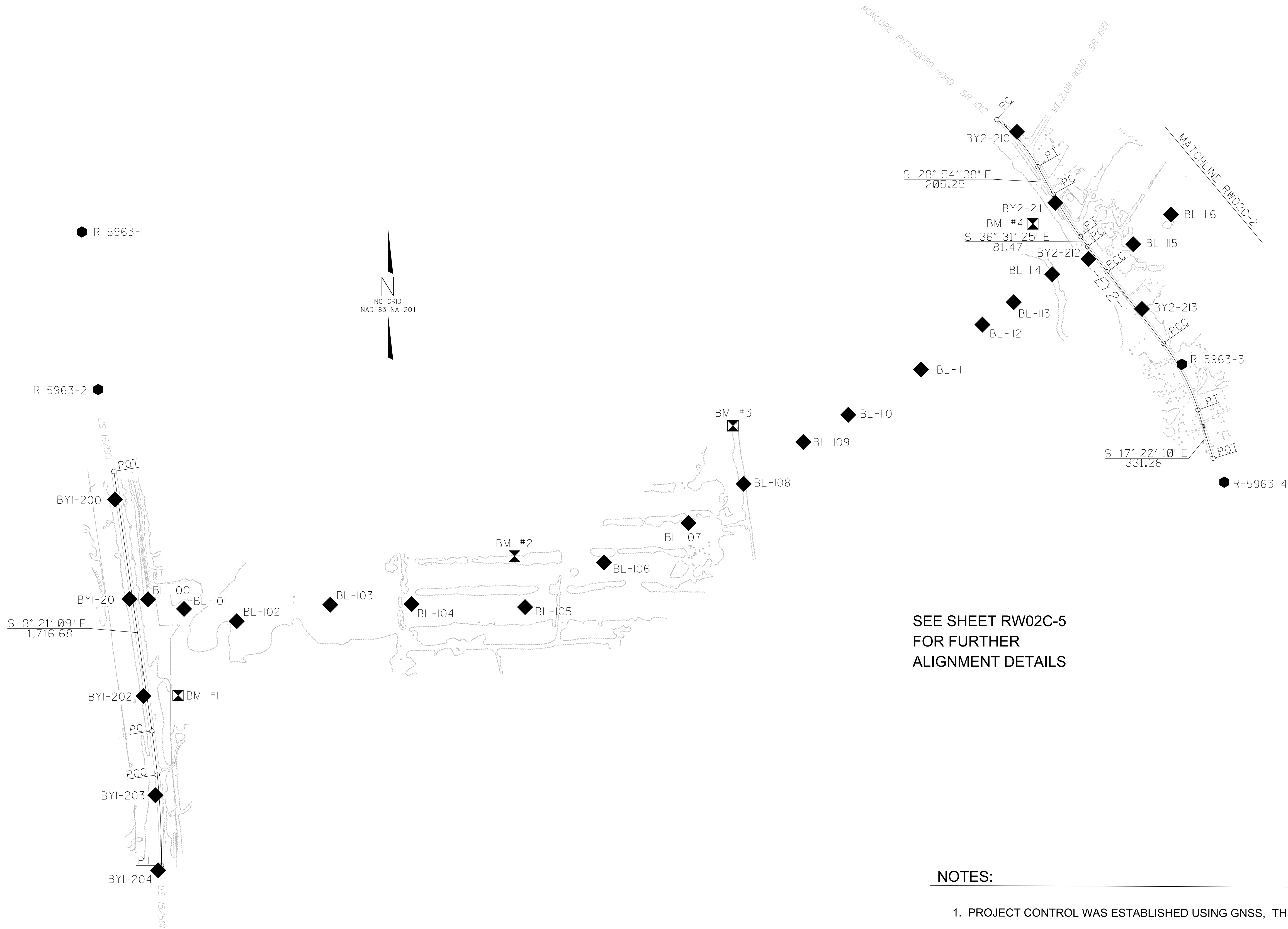
DocuSigned by:
C. Andrew Heath, Jr.
2025.04.03 09:01:47
SIGNATURE:

3/13/2025
Date



SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



SEE SHEET RW02C-5
FOR FURTHER
ALIGNMENT DETAILS

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.

PROJECT REFERENCE NO.	SHEET NO.
R-5963	RW02C-1
Location and Surveys	
NV5 NVS ENGINEERS & CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27515 P: 919.851.1912 www.NV5.com No License # 12345 Formerly CIVIL ENGINEERS & CONSULTANTS	
PROJECT SURVEYOR ANDREW HEATH, JR. SEAL L-3281 LAND SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

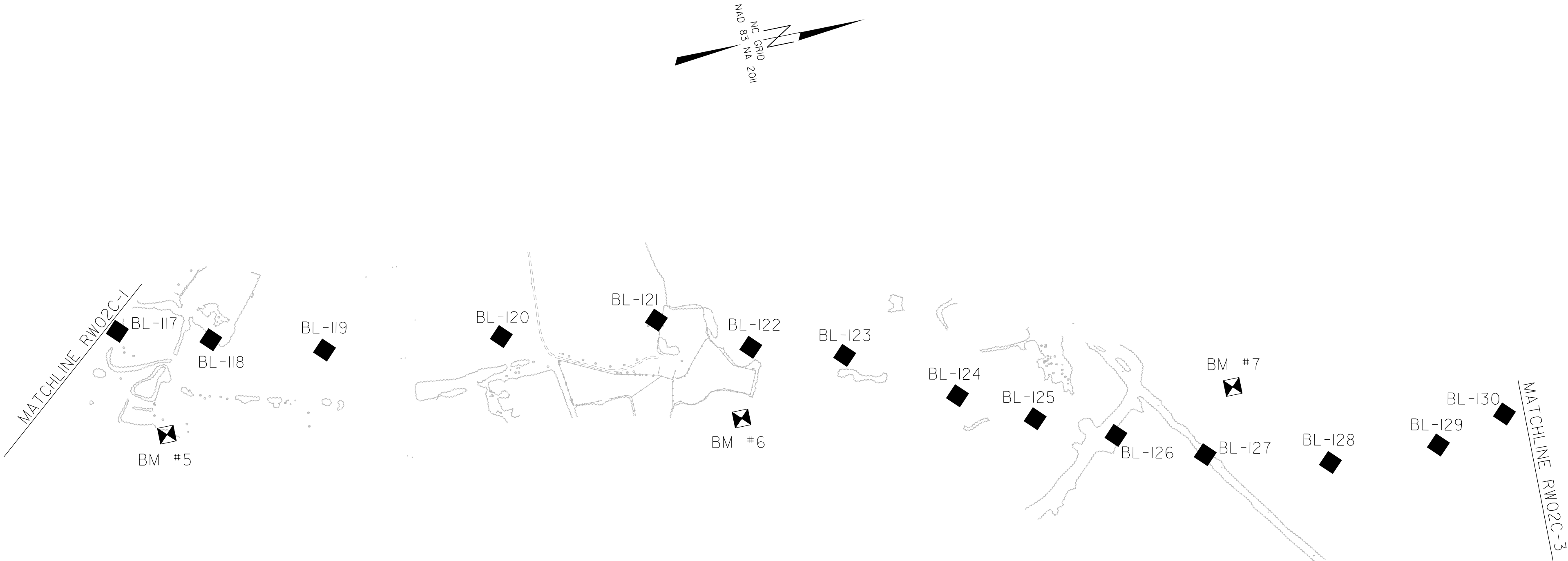
I, C. ANDREW HEATH, JR., PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**
Type of GPS field procedure: RTN
Dates of survey: 09/08-09/19 2022
Datum/Epoch: NAD83/NA2011
Published/Fixed-control use: N/A
Localized around: R5930-1
Northing: 721723.517
Easting: 1956011.320
Combined grid factor: 0.9998868290
Geoid model: GEOID 12B
Units: US SURVEY FEET

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from 9/19/2022 to 01/10/2023 , and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 13th day of January, 2023
DocuSigned by:
C. Andrew Heath Jr.
2023.01.14 09:59:14 EST
Professional Land Surveyor L-3281

SURVEY CONTROL SHEET
W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



SEE SHEET RW02C-5
FOR FURTHER
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PROJECT REFERENCE NO.	SHEET NO.
R-5963	RW02C-2
Location and Surveys	
NV5 NVS ENGINEERS & CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27518 P: 919.851.1912 www.NVS.com	
PROJECT SURVEYOR SEAL L-3281 C. ANDREW HEATH, JR.	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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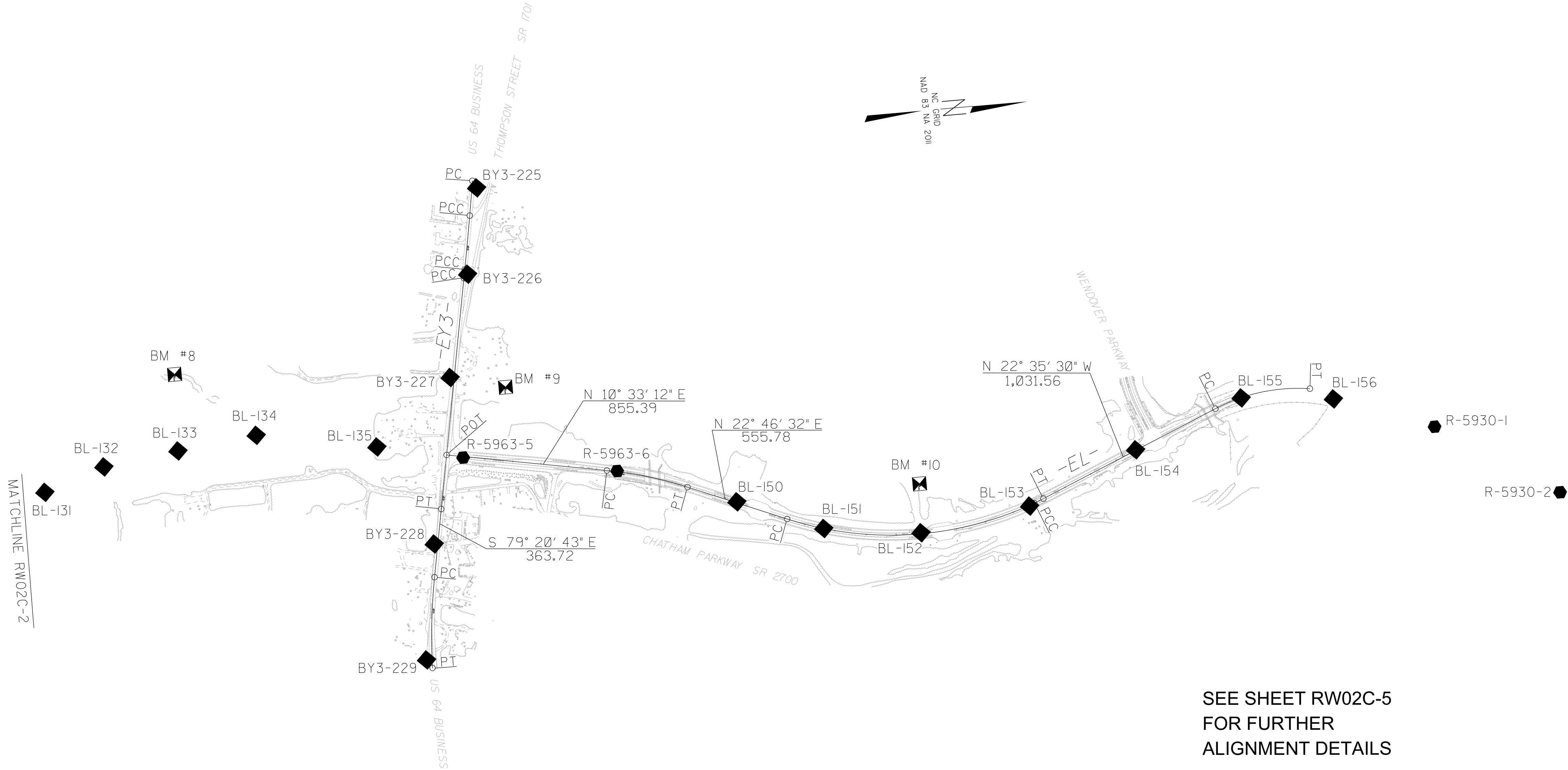
Class of survey: **AA**
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This 13th day of January, 2023.

DocuSigned by:
C. Andrew Heath Jr.
2023.01.13 09:29:17
Professional Land Surveyor L-3281

SURVEY CONTROL SHEET
W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



SEE SHEET RW02C-5
FOR FURTHER
ALIGNMENT DETAILS

PROJECT REFERENCE NO.	SHEET NO.
R-5963	RW02C-3
Location and Surveys	
N V S NVS ENGINEERS & CONSULTANTS, INC. 3500 RESEARCH PARKWAY, SUITE 100 CARY, NC 27518 P 919.851.1912 F 919.851.1917 www.NVS.com NCLicense # E-5333 Surveying & Engineering Consultants	
PROJECT SURVEYOR C. ANDREW HEATH, JR. SEAL L-3281	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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

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SURVEY CONTROL SHEET
W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BL	CROSS COUNTRY AND CHATHAM PARWAY SR 2700				
POINT	DESC.	NORTH	EAST	ELEVATION	
202	BY1-202	704565.1840	1947277.3280	466.37	
100	BL-100	705198.6140	1947307.0820	490.34	
101	BL-101	705135.5620	1947542.1640	500.81	
102	BL-102	705054.8660	1947886.8240	489.62	
103	BL-103	705163.1080	1948498.7590	491.86	
104	BL-104	705166.9980	1949031.3700	487.90	
105	BL-105	705147.8370	1949773.4940	518.84	
106	BL-106	705439.5380	1950291.1310	504.55	
107	BL-107	705697.2000	1950842.6420	469.34	
108	BL-108	705955.0110	1951203.2680	439.36	
109	BL-109	706228.3210	1951593.5380	465.58	
110	BL-110	706406.3970	1951888.2730	466.72	
111	BL-111	706703.6350	1952363.9010	417.39	
112	BL-112	706996.7310	1952765.9070	406.80	
113	BL-113	707143.5700	1952970.9360	401.49	
114	BL-114	707325.8670	1953222.6520	371.03	
212	BY2-212	707427.4110	1953459.8060	392.11	
115	BL-115	707522.3490	1953752.8350	416.45	
116	BL-116	707716.5180	1954000.1230	436.06	
117	BL-117	708141.2390	1954147.3910	396.65	
118	BL-118	708542.6090	1954267.2630	390.54	
119	BL-119	709030.7170	1954413.1700	387.82	
120	BL-120	709815.8010	1954511.0160	413.42	
121	BL-121	710508.7170	1954576.6760	409.22	
122	BL-122	710897.5580	1954779.3820	403.29	
123	BL-123	711300.9990	1954897.9230	379.10	
124	BL-124	711758.5470	1955174.7850	337.44	
125	BL-125	712077.8500	1955344.2230	316.95	
126	BL-126	712416.5010	1955488.8260	314.33	
127	BL-127	712789.7990	1955652.3890	333.21	
128	BL-128	713330.3960	1955797.5090	350.72	
129	BL-129	713818.1720	1955816.7450	373.47	
130	BL-130	714134.5750	1955739.7330	403.09	
131	BL-131	714338.0630	1955712.2330	395.70	
132	BL-132	714662.0760	1955605.1980	377.73	
133	BL-133	715061.4830	1955555.1360	373.50	
134	BL-134	715482.8970	1955508.6880	366.96	
135	BL-135	716116.3360	1955626.4630	389.18	
5	R5963-5	716567.7660	1955723.0700	401.86	
6	R5963-6	717376.9550	1955865.8950	391.03	
150	BL-150	717995.7420	1956084.3270	386.61	
151	BL-151	718443.3320	1956265.8280	402.34	
152	BL-152	718955.7780	1956333.4870	420.02	
153	BL-153	719542.9630	1956242.8660	440.38	
154	BL-154	720130.3780	1955994.1870	451.09	
155	BL-155	720712.7700	1955768.7200	474.86	
156	BL-156	721200.7330	1955816.8110	508.05	
R59301	R5930-1	721723.5170	1956011.3200	539.76	
R59302	R5930-2	722357.1830	1956416.7170	546.27	

BY1	US 15/501				
POINT	DESC.	NORTH	EAST	ELEVATION	
1	R5963-1	707602.9960	1946873.8390	419.47	
2	R5963-2	706571.8240	1946981.0590	444.73	
200	BY1-200	705852.5540	1947089.7780	454.39	
201	BY1-201	705200.4950	1947184.1990	460.41	
202	BY1-202	704565.1840	1947277.3280	466.37	
203	BY1-203	703915.5710	1947355.3410	472.55	
204	BY1-204	703424.7910	1947373.0480	477.56	

BY2	PITTSBORO MONCURE ROAD	SR 1012			
POINT	DESC.	NORTH	EAST	ELEVATION	
210	BY2-210	708258.2150	1952992.0300	375.42	
211	BY2-211	707794.0920	1953242.8740	379.34	
212	BY2-212	707427.4110	1953459.8060	392.11	
213	BY2-213	707099.0090	1953809.5890	404.30	
3	R5963-3	706737.0750	1954070.9480	414.40	
4	R5963-4	705965.2080	1954348.3650	437.75	

BY3	US 64 BUSINESS				
POINT	DESC.	NORTH	EAST	ELEVATION	
225	BY3-225	716764.5070	1954301.1630	418.92	
226	BY3-226	716676.6780	1954754.1300	413.52	
227	BY3-227	716536.2620	1955292.8850	401.57	
5	R5963-5	716567.7660	1955723.0700	401.86	
228	BY3-228	716374.6020	1956166.6840	409.81	
229	BY3-229	716279.9740	1956776.5240	403.91	

BM1 ELEVATION = 465.87
N 704569 E 1947504
BY1 STATION 35+88.00 226 LEFT
RRS IN 15"GUM

BM2 ELEVATION = 503.14
N 705481 E 1949705
BL STATION 34+83.00 324 LEFT
RRS IN 12"GUM

BM3 ELEVATION = 432.69
N 706335 E 1951134
BL STATION 51+87.00 351 LEFT
RRS IN 12"MAP

BM4 ELEVATION = 371.19
N 707656 E 1953095
BY2 STATION 10+71.00 197 RIGHT
RRS IN 10"OAK

BM5 ELEVATION = 391.11
N 708266 E 1954644
BL STATION 90+60.00 440 RIGHT
RRS IN 16"PINE

BM6 ELEVATION = 384.69
N 710794 E 1955083
BL STATION 116+52.00 321 RIGHT
RRS IN 15"GUM

BM7 ELEVATION = 334.17
N 712970 E 1955381
BL STATION 138+48.00 309 LEFT
RRS IN 16"OAK

BM8 ELEVATION = 357.43
N 715080 E 1955149
BL STATION 161+29.00 402 LEFT
RRS IN 18" GUM

BM9 ELEVATION = 405.78
N 716825 E 1955370
BY3 STATION 16+17.00 283 LEFT
RRS IN 23"PINE

BM10 ELEVATION = 417.55
N 718971 E 1956074
BL STATION 201+29.00 254 LEFT
RRS IN 12"OAK

PROJECT REFERENCE NO.
R-5963

SHEET NO.
RW02C-4

Location and Surveys

NVS

NVS ENGINEERS & CONSULTANTS, INC.
3500 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P 919.851.1912
NCLicense # E-5333
www.NVS.com
Northern NC/NY Engineers & Consultants

PROJECT SURVEYOR

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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Localized around: R5930-1
Northing: 721723.517
Easting: 1956011.320
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This 13th day of January, 2023.

DocuSigned by:

C. Andrew Heath Jr.

2023.01.06 10:28:05 AM

Professional Land Surveyor L-3281

NOTES:

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SURVEY CONTROL SHEET
W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	716481.515	1955701.555							
LINE			N 10°33'11.7" E	855.39					
PC	717322.436	1955858.219							
CURVE			N 16°39'51.8" E	437.42	12°13'20.2"(RT)	02°47'20.0"	438.25	219.96	2054.43
PT	717741.482	1955983.655							
LINE			N 22°46'31.8" E	555.78					
PC	718253.929	1956198.811							
CURVE			N 01°20'38.8" E	1315.92	42°51'46.2"(LT)	03°10'54.6"	1347.11	706.83	1800.72
PCC	719569.484	1956229.678							
CURVE			N 21°20'21.9" W	53.62	02°30'15.2"(LT)	04°40'10.8"	53.63	26.82	1226.98
PT	719619.431	1956210.165							
LINE			N 22°35'29.5" W	1031.56					
PC	720571.835	1955813.882							
CURVE			N 06°55'23.0" W	513.13	31°20'13.0"(RT)	06°01'52.1"	519.59	266.47	950.00
PT	721081.228	1955752.031							

EY1 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	706036.139	1947083.149							
LINE			S 08°21'08.6" E	1716.68					
PC	704337.667	1947332.516							
CURVE			S 06°57'08.5" E	290.88	02°48'00.2"(RT)	00°57'45.1"	290.91	145.48	5952.72
PCC	704048.925	1947367.725							
CURVE			S 02°38'47.9" E	592.88	05°48'40.9"(RT)	00°58'47.1"	593.14	296.82	5847.92
PT	703456.673	1947395.102							

EY2 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	708338.479	1952860.523							
CURVE			S 41°02'13.3" E	409.17	24°15'10.4"(RT)	05°52'59.5"	412.24	209.25	973.89
PT	708029.848	1953129.162							
LINE			S 28°54'38.1" E	205.25					
PC	707850.173	1953228.392							
CURVE			S 32°43'01.5" E	329.38	07°36'46.7"(LT)	02°18'34.5"	329.63	165.06	2480.78
PT	707573.047	1953406.420							
LINE			S 36°31'24.9" E	81.47					
PC	707507.574	1953454.909							
CURVE			S 37°31'41.1" E	207.92	02°00'32.5"(LT)	00°57'58.3"	207.93	103.98	5930.07
PCC	707342.681	1953581.565							
CURVE			S 38°07'11.1" E	595.55	00°49'32.4"(RT)	00°08'19.1"	595.55	297.78	41327.40
PCC	706874.150	1953949.201							
CURVE			S 27°31'17.7" E	491.81	20°22'14.4"(RT)	04°07'12.6"	494.41	249.84	1390.62
PT	706437.991	1954176.459							
LINE			S 17°20'10.5" E	331.28					
POT	706121.761	1954275.173							

EY3 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	716745.200	1954262.106							
CURVE			S 80°41'40.1" E	185.58	01°01'53.2"(RT)	00°33'20.8"	185.58	92.79	10309.01
PCC	716715.192	1954445.246							
CURVE			S 79°41'20.2" E	287.71	00°58'46.7"(RT)	00°20'25.7"	287.72	143.86	16827.73
PCC	716663.694	1954728.312							
CURVE			S 79°18'55.5" E	46.52	00°13'57.3"(RT)	00°30'00.0"	46.52	23.26	11459.16
PCC	716655.069	1954774.024							
CURVE			S 79°23'18.4" E	1232.39	00°05'11.5"(RT)	00°00'25.3"	1232.39	616.19	816036.33
PT	716428.126	1955985.335							
LINE			S 79°20'42.7" E	363.72					
PC	716360.876	1956342.789							
CURVE			S 83°42'49.2" E	482.46	08°44'13.0"(LT)	01°48'33.0"	482.93	241.93	3166.99
PT	716308.048	1956822.349							

PROJECT REFERENCE NO.
R-5963

SHEET NO.
RW02C-5

Location and Surveys

N|V|S

NVS ENGINEERS & CONSULTANTS, INC.
3500 RESEARCH PARKWAY, SUITE 100
CARY, NC 27518
P 919.851.1912 www.NVS.com
NCCES# 01-5333
Surveying & Engineering Consultants

PROJECT SURVEYOR



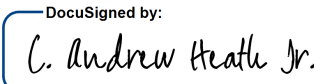
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This 13th day of January, 2023.

DocuSigned by:

20230108162828472
Professional Land Surveyor L-3281

NOTES:

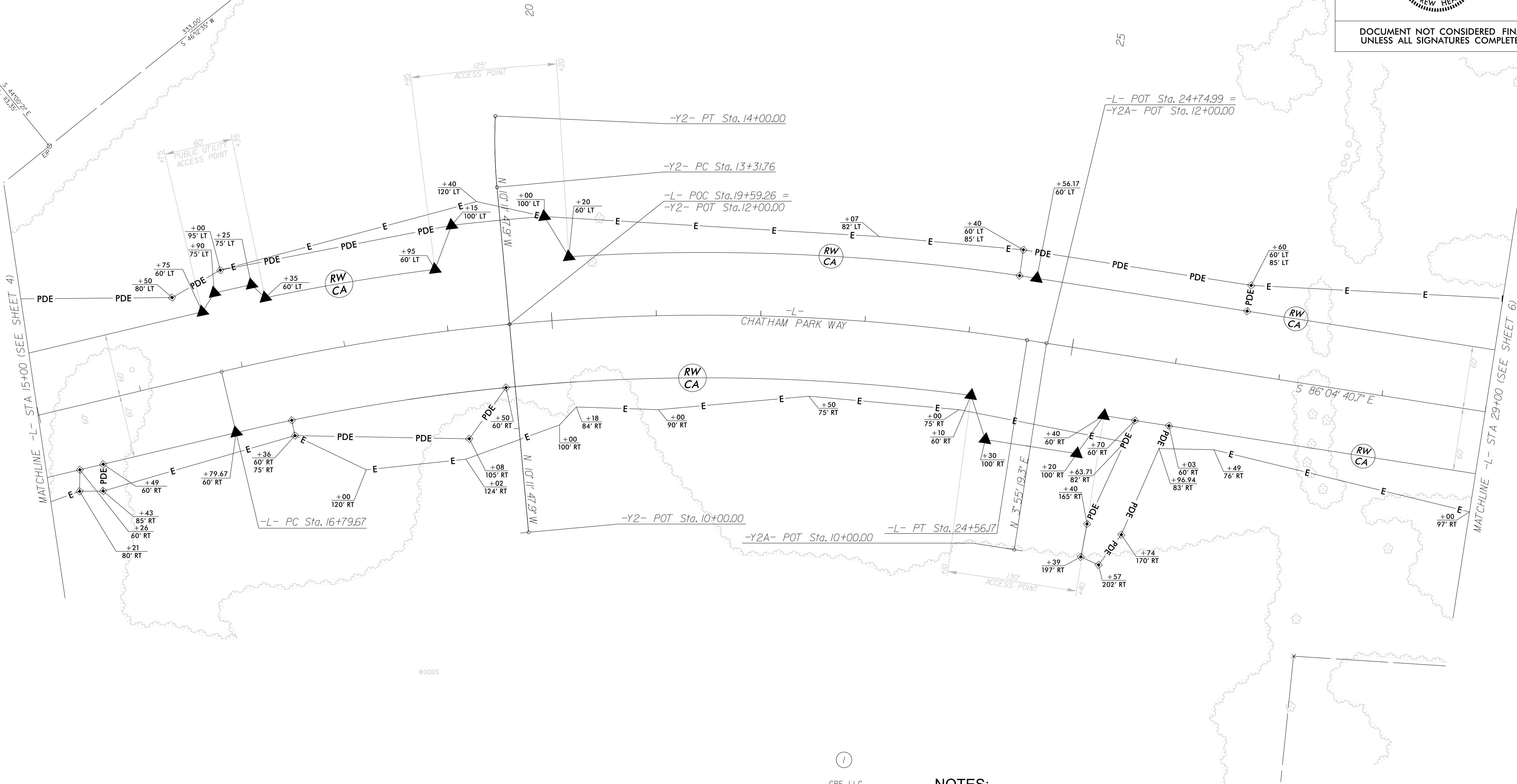
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

-Y2-
PI Sta. 13+65.93
 $\Delta = 7^{\circ} 49' 11.5''$ (RT)
D = 11' 27" 33.0"
L = 68.24'
T = 34.17'
R = 500.00'

-L-
PI Sta. 20+72.87
 $\Delta = 22^{\circ} 14' 43.0''$ (RT)
D = 2' 51' 53.2"
L = 776.51'
T = 393.20'
R = 2,000.00'
SE = 3.5%
RO = 168'

CARLOS GONZALEZ
AND WIFE
SANDRA HIMENEZ
DB 2293 PG 895
PS '94 - 243



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 AUGUST 19, 2024 to MARCH 7, 2025, and all coordinates are based on NAD83(2011); That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 10th day of MARCH, 2025.

DocuSigned by:
C. Andrew Heath Jr.
2C0D14B3929147F

Professional Land Surveyor L-3281

CPF, LLC
DB 1898 PG 446
PS 2013 - 144

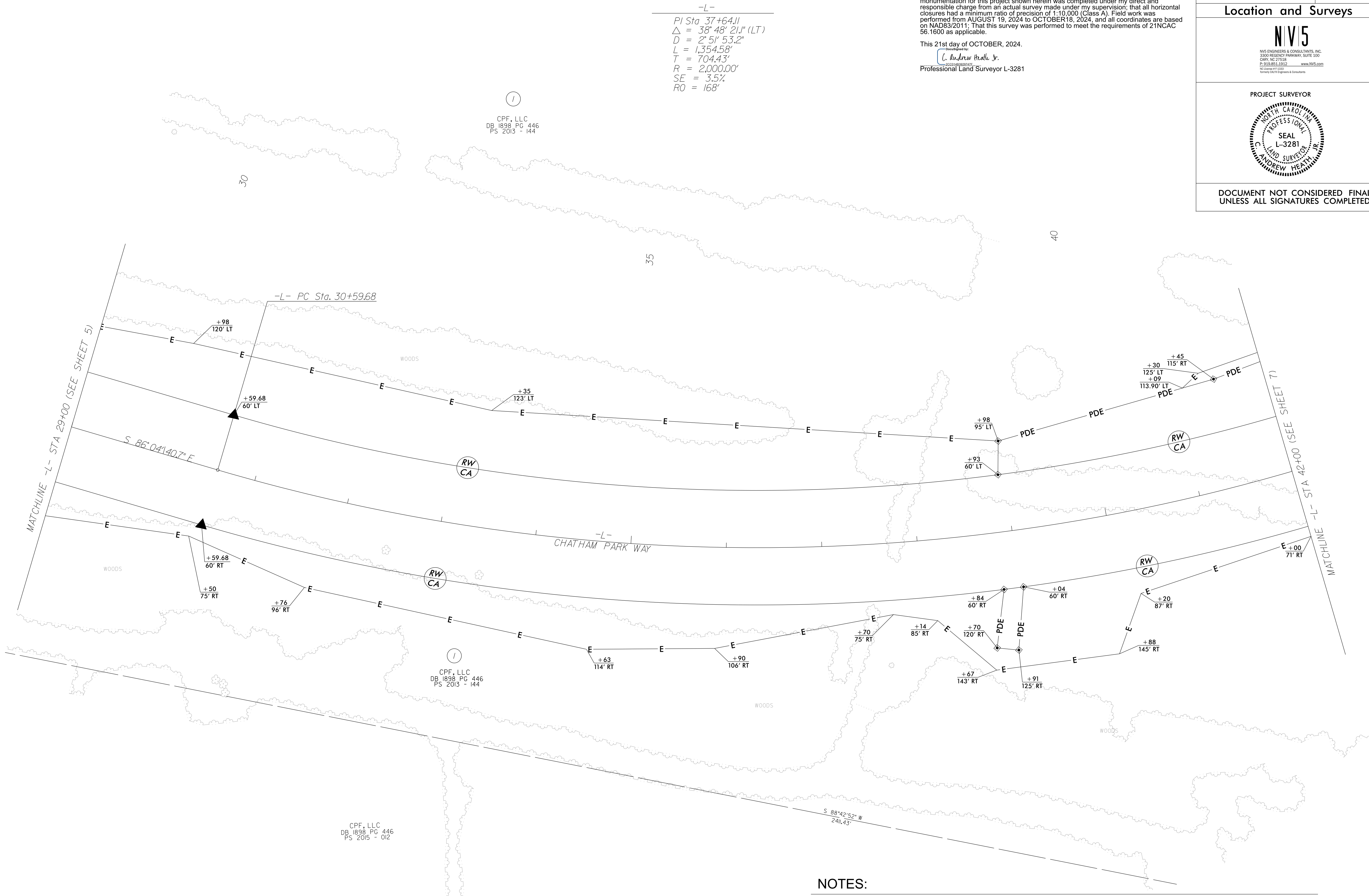
CPF, LLC
DB 1898 PG 446
PS 2013 - 144

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 AUGUST 2024 TO MARCH 2025.

PROJECT REFERENCE NO.	SHEET NO.
R-5963	RW05
Location and Surveys	
	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS



-L-
PI Sta. 37+64.11
 $\Delta = 38^\circ 48' 21.1''$ (LT)
 $D = 2^\circ 51' 53.2''$
 $L = 1,354.58'$
 $T = 704.43'$
 $R = 2,000.00'$
 $SE = 3.5\%$
 $RO = 168'$

CPF, LLC
DB 1898 PG 446
PS 2013 - 144

RW
CA

RW
CA

RW
CA

RW
CA

RW
CA

RW
CA

CPF, LLC
DB 1898 PG 446
PS 2013 - 012

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 AUGUST 19, 2024 to OCTOBER 18, 2024, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 21st day of OCTOBER, 2024.
Designed by:
C. Andrew Heath Jr.
Professional Land Surveyor L-3281

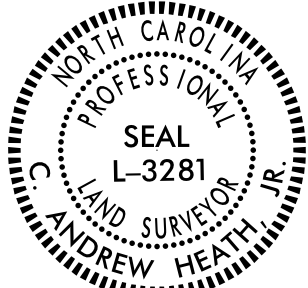
PROJECT REFERENCE NO.	SHEET NO.
R-5963	RW06
Location and Surveys	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

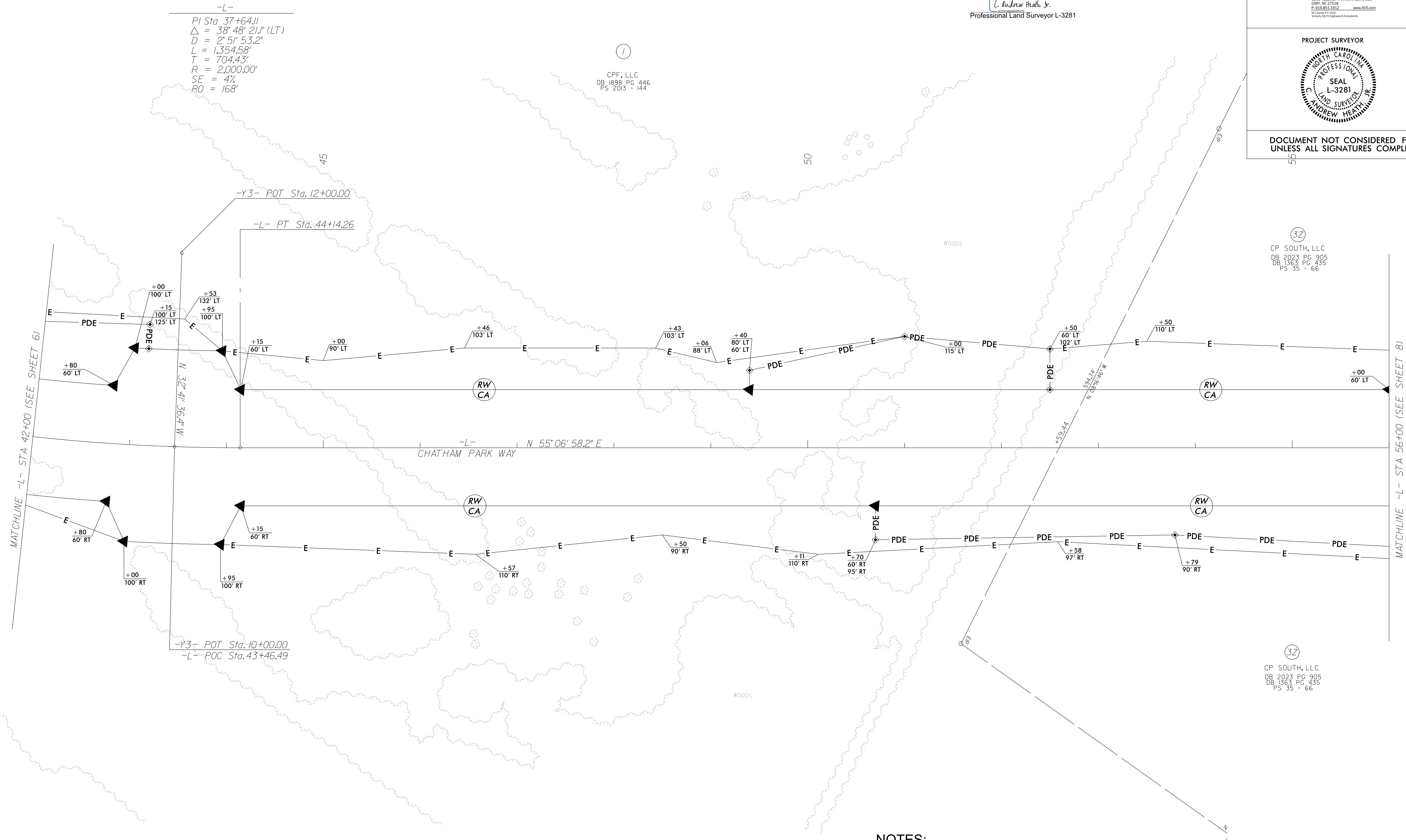
NOTES:

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 AUGUST 2024 TO OCTOBER 2024 .

REVISIONS

This 21st day of OCTOBER, 2024.
Designed by:
C. Andrew Heath Jr.
20001483829747E
Professional Land Surveyor L-3281

PROJECT REFERENCE NO.	SHEET NO.
R-5963	RW07
Location and Surveys	
 NVS ENGINEERS & CONSULTANTS, INC. 2320 RESISTANCE PARKWAY, SUITE 100 DARY, NC 27518 P 919.254.1512 M 919.254.1513 www.NVS.com Surveying Civil Engineering & Construction	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



NOTES:

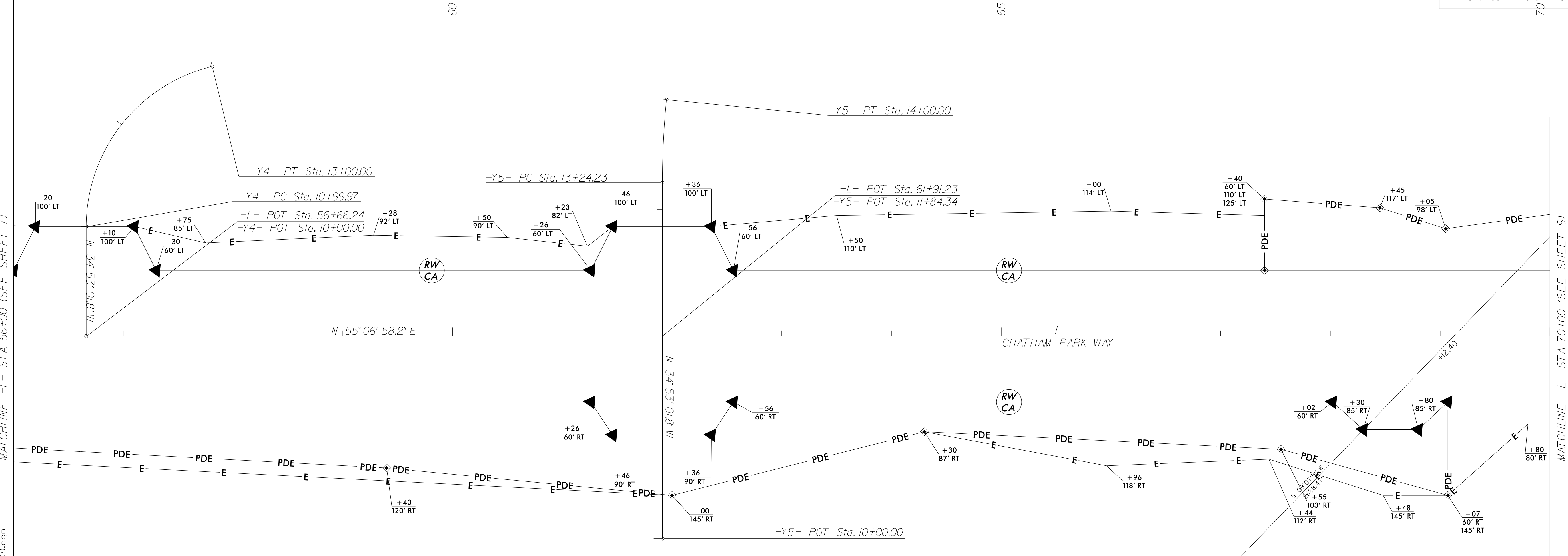
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED AUGUST 2024 TO OCTOBER 2024 .

6/2/24

21 OCT 2024 13:53
C:\projects\2024\713324-2024014.56\SUR\rw_sheets\13-rw08.dgn
AT NCCAR-DRANS100
scott@cp-south.com

REVISIONS

-Y4-	-Y5-
PI Sta 12+18.02	PI Sta 13+62.14
$\Delta = 76^{\circ} 24' 19.1''$ (RT)	$\Delta = 5^{\circ} 35' 01.4''$ (RT)
D = 38' 11" 49.9"	D = 7' 22' 09.2"
L = 200.03'	L = 75.77'
T = 118.05'	T = 37.92'
R = 150.00'	R = 777.50'



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 AUGUST 19, 2024 to OCTOBER 18, 2024, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 21st day of OCTOBER, 2024.

Designed by:
C. Andrew Heath Jr.

Professional Land Surveyor L-3281

32
CP SOUTH, LLC
DB 2023 PG 905
DB 1363 PG 435
PS 35 - 66

PROJECT REFERENCE NO.	SHEET NO.
R-5963	RW08
Location and Surveys	
NV5 NV5 ENGINEERS & CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27518 P: 919.853.1592 F: 919.853.1593 www.NV5.com	
PROJECT SURVEYOR SEAL L-3281 C. ANDREW HEATH, JR. Professional Land Surveyor	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

32
CP SOUTH, LLC
DB 2023 PG 905
DB 1361 PG 1032
PS 35 - 66

NOTES:

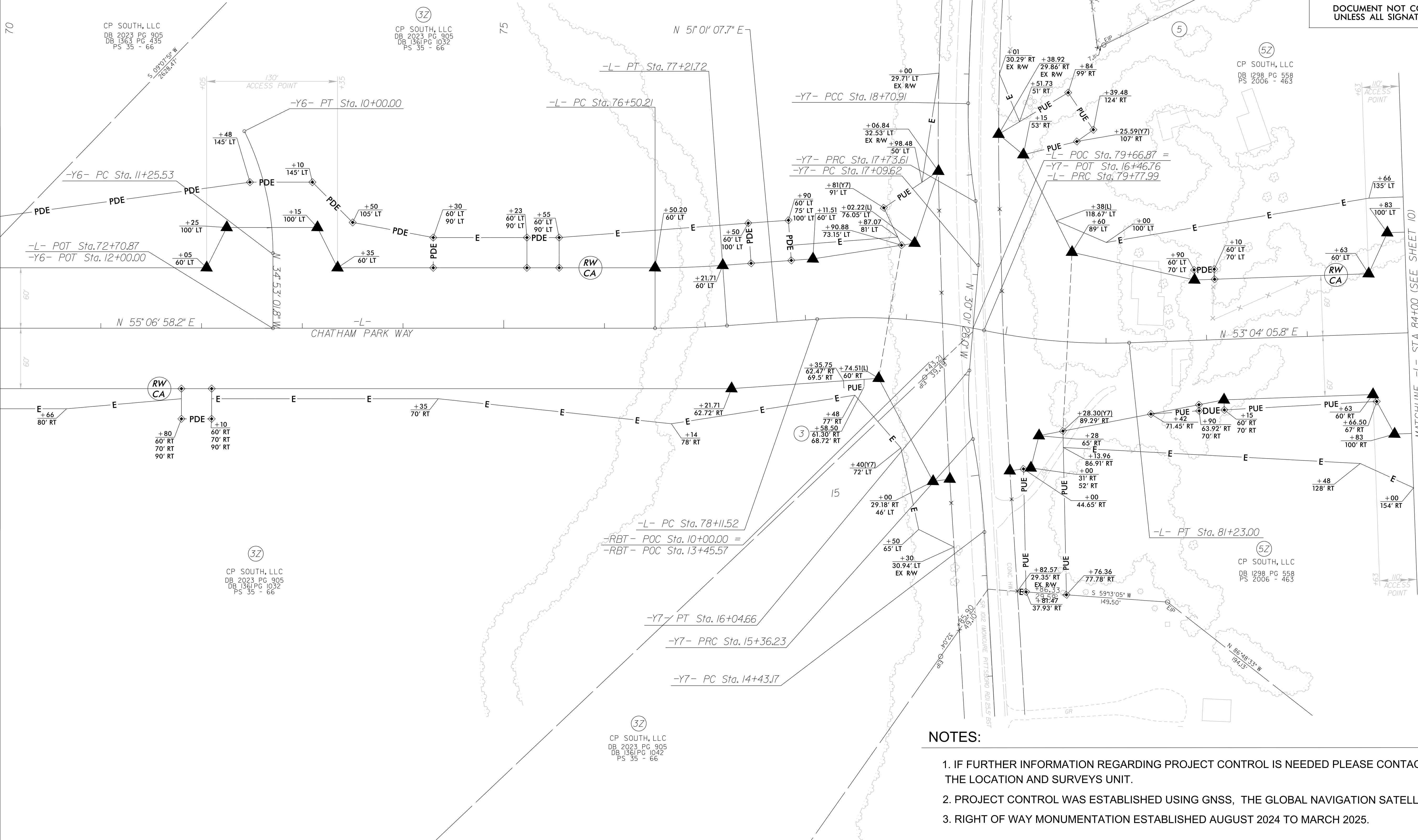
- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- RIGHT OF WAY MONUMENTATION ESTABLISHED AUGUST 2024 TO OCTOBER 2024 .

REVISIONS

MATCHLINE -L- STA 70+00 (SEE SHEET 8)

MATCHLINE -L- STA 84+00 (SEE SHEET 10)

-L-		-Y6-		-RBT-	
PI Sta 76+85.98 Δ = 4° 05' 50.5" (LT) D = 5' 43' 46.5" L = 71.51' T = 35.77' R = 1,000.00'	PI Sta 78+95.29 Δ = 15° 53' 49.5" (RT) D = 9' 32' 57.5" L = 166.47' T = 83.77' R = 600.00'	PI Sta 80+50.85 Δ = 13° 50' 51.4" (LT) D = 9' 32' 57.5" L = 145.01' T = 72.86' R = 600.00'	PI Sta 11+38.37 Δ = 26° 23' 37.7" (LT) D = 21' 01' 33.5" L = 125.53' T = 63.90' R = 272.50'	PI Sta 10+00.00 Δ = 359° 59' 56.1" (LT) D = 104' 10' 26.9" L = 345.57' T = 0.00' R = 55.00'	
-Y7-					
PI Sta 10+77.69 Δ = 0° 13' 21.2" (LT) D = 0' 08' 35.7" L = 155.37' T = 77.69' R = 40,000.00'	PI Sta 14+89.77 Δ = 7° 36' 59.6" (LT) D = 8' 11' 06.4" L = 93.05' T = 46.60' R = 700.00'	PI Sta 15+70.66 Δ = 15° 41' 01.4" (RT) D = 22° 55' 05.9" L = 68.43' T = 34.43' R = 250.00'	PI Sta 17+41.79 Δ = 14° 39' 51.1" (LT) D = 22° 55' 05.9" L = 68.43' T = 32.17' R = 250.00'	PI Sta 18+22.41 Δ = 10° 55' 53.8" (RT) D = 11' 14' 04.1" L = 97.30' T = 48.80' R = 510.00'	PI Sta 19+85.16 Δ = 4° 50' 45.2" (RT) D = 2' 07' 19.4" L = 228.36' T = 114.25' R = 2,700.00'



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 AUGUST 2024 TO MARCH 2025.

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 AUGUST 19, 2024 to MARCH 7, 2025, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 10th day of MARCH, 2025.

DocuSigned by:
C. Andrew Heath Jr.
20C014B3929747F
Professional Land Surveyor L-3281

-Y7- PT Sta. 20+99.27

CHARLIE W. PEELE
AND WIFE
LINDA MOORE PEELE
DB 396 PG 542

CP SOUTH, LLC
DB 1298 PG 558
PS 2006 - 463

CP SOUTH, LLC
DB 1298 PG 558
PS 2006 - 463

PROJECT REFERENCE NO.
R-5963

SHEET NO.
RW09

Location and Surveys

NV5

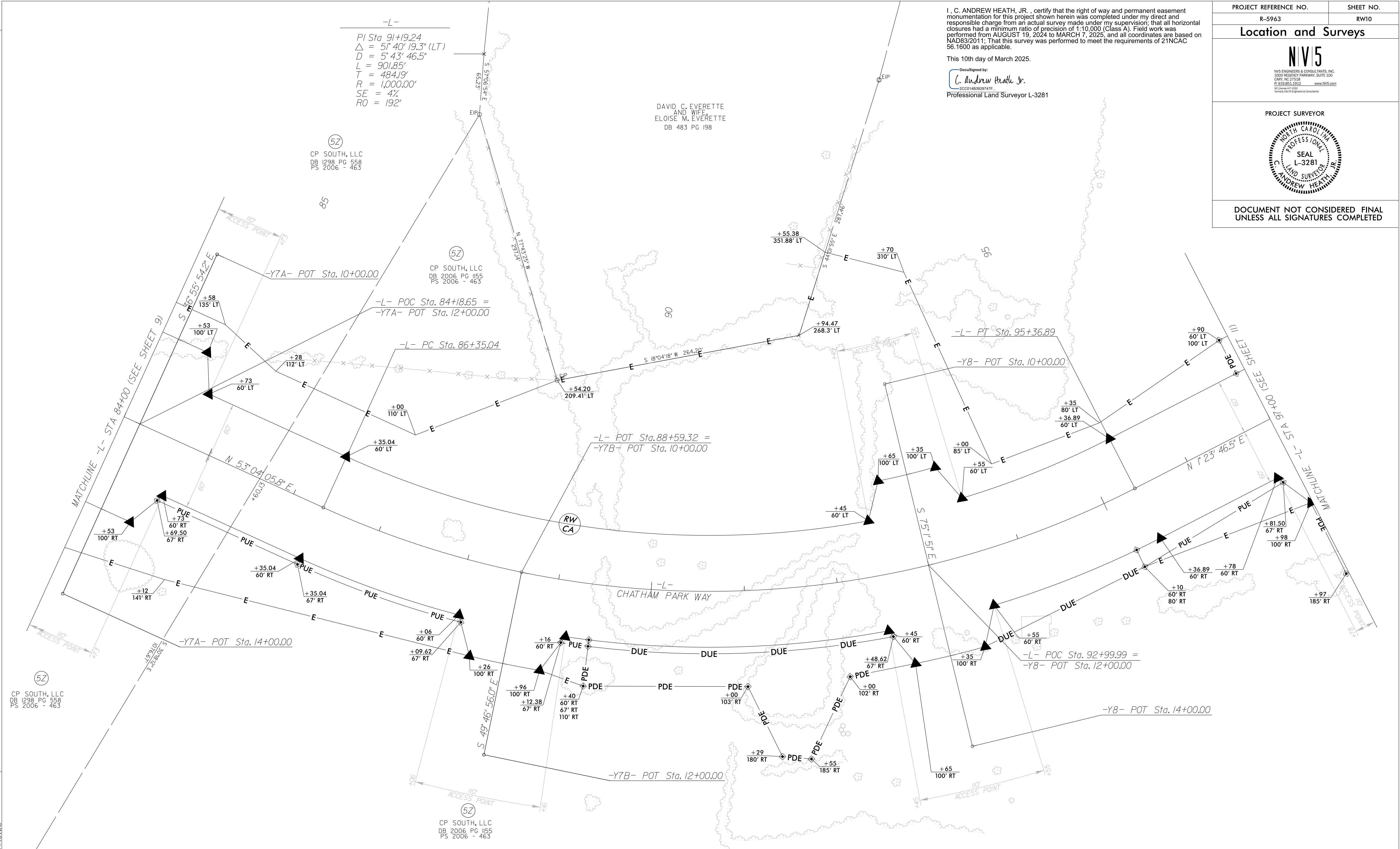
NVS ENGINEERS & CONSULTANTS, INC.
3300 RENOCHY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912
www.NV5.com

PROJECT SURVEYOR

NORTH CAROLINA
PROFESSIONAL
SEAL
L-3281
LAND SURVEYOR
ANDREW HEATH, JR.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

REVISIONS



-L-
PI Sta 91+19.24
Δ = 51° 40' 19.3" (LT)
D = 5° 43' 46.5"
L = 901.85'
T = 484.19'
R = 1,000.00'
SE = 4%
RO = 192'

5Z
CP SOUTH, LLC
DB 1298 PG 558
PS 2006 - 463

5Z
CP SOUTH, LLC
DB 2006 PG 1155
PS 2006 - 463

5Z
CP SOUTH, LLC
DB 1298 PG 558
PS 2006 - 463

5Z
CP SOUTH, LLC
DB 2006 PG 1155
PS 2006 - 463

DAVID C. EVERETTE
AND WIFE
ELOISE M. EVERETTE
DB 483 PG 198

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 AUGUST 19, 2024 to MARCH 7, 2025, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 10th day of March 2025.

DocuSigned by:
C. Andrew Heath Jr.
2CC014B3929747F...
Professional Land Surveyor L-3281

PROJECT REFERENCE NO.	SHEET NO.
R-5963	RW10
Location and Surveys	
	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

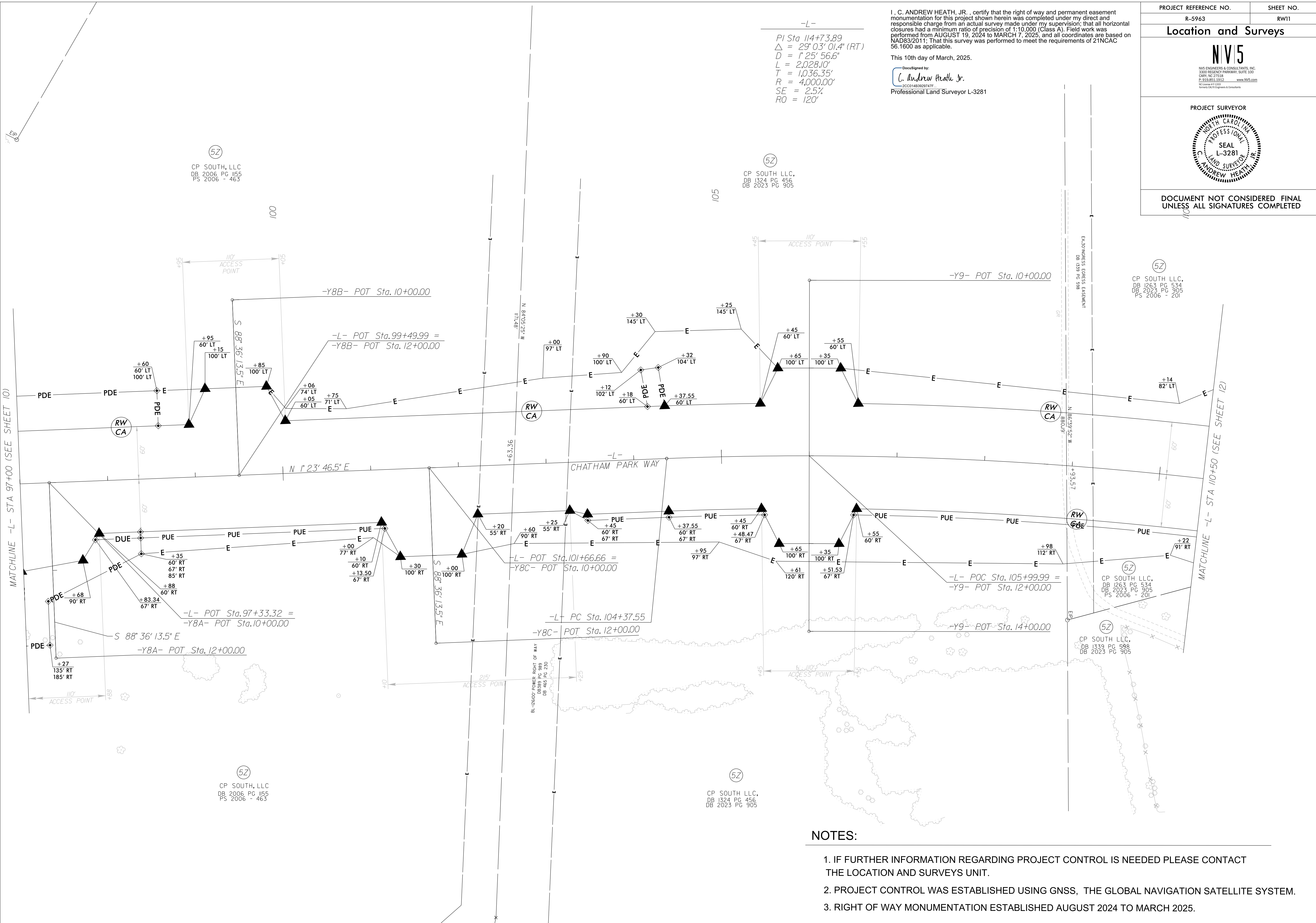
NOTES:

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 AUGUST 2024 TO MARCH 2025.

6/2/99

REVISIONS

10-MAR-2025 12:52
D:\Projects\2025\1330725-202501417_SURV-w_sheets\R-5963A&B_1.s_rv1.dgn
scott@cranford
AT NCAR-ORANS100



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 AUGUST 2024 TO MARCH 2025.

REVISIONS

PI Sta 114+73.89
 $\Delta = 29^{\circ} 03' 01.4''$ (RT)
 $D = 1^{\circ} 25' 56.6''$
 $L = 2,028.10'$
 $T = 1,036.35'$
 $R = 4,000.00'$
 $SE = 2.5\%$
 $RO = 120'$

DocuSigned by:
C. Andrew Heath Jr.
2CC014B3929747F...
Professional Land Surveyor L-3281

CP SOUTH LLC,
DB 1263 PG 534
DB 2023 PG 905
PS 2006 - 201

120 -Y10- POT Sta. 9+00.00

45 KI

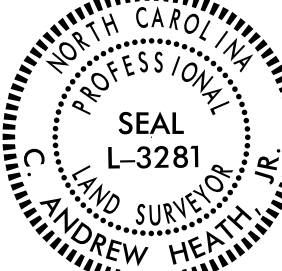
-L- POC Sta. 120+09.99
-Y10- POT Sta. 12+00.00

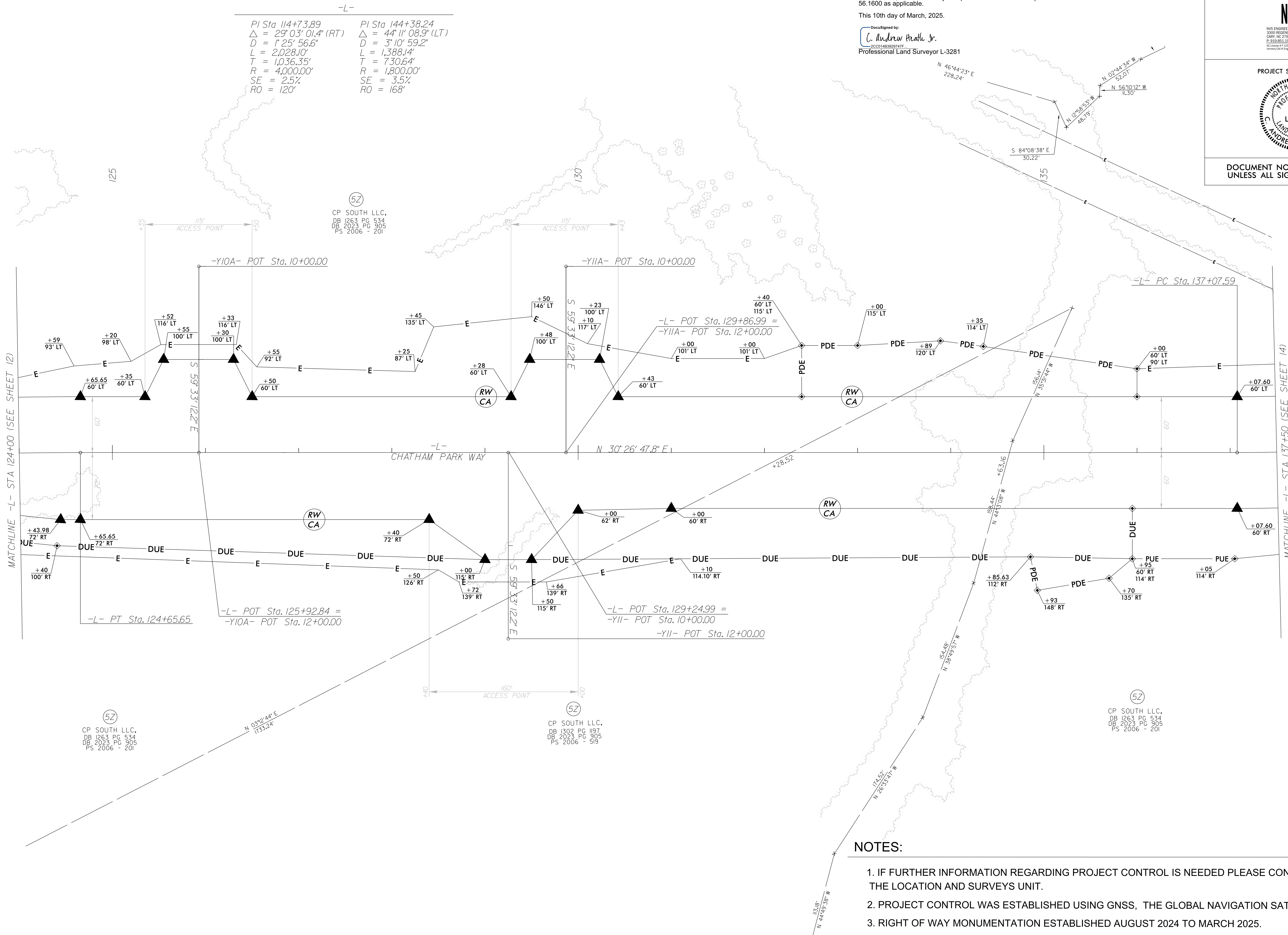
CP SOUTH LLC. -Y10- POT Sta. 15+00.00
DB 1263 PG 534
DB 2023 PG 905
PS 2006 - 201

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 AUGUST 2024 TO MARCH 2025.

REVISIONS

DocuSigned by:
C. Andrew Heath Jr.
2CC014B3929747F...
Professional Land Surveyor L-3281

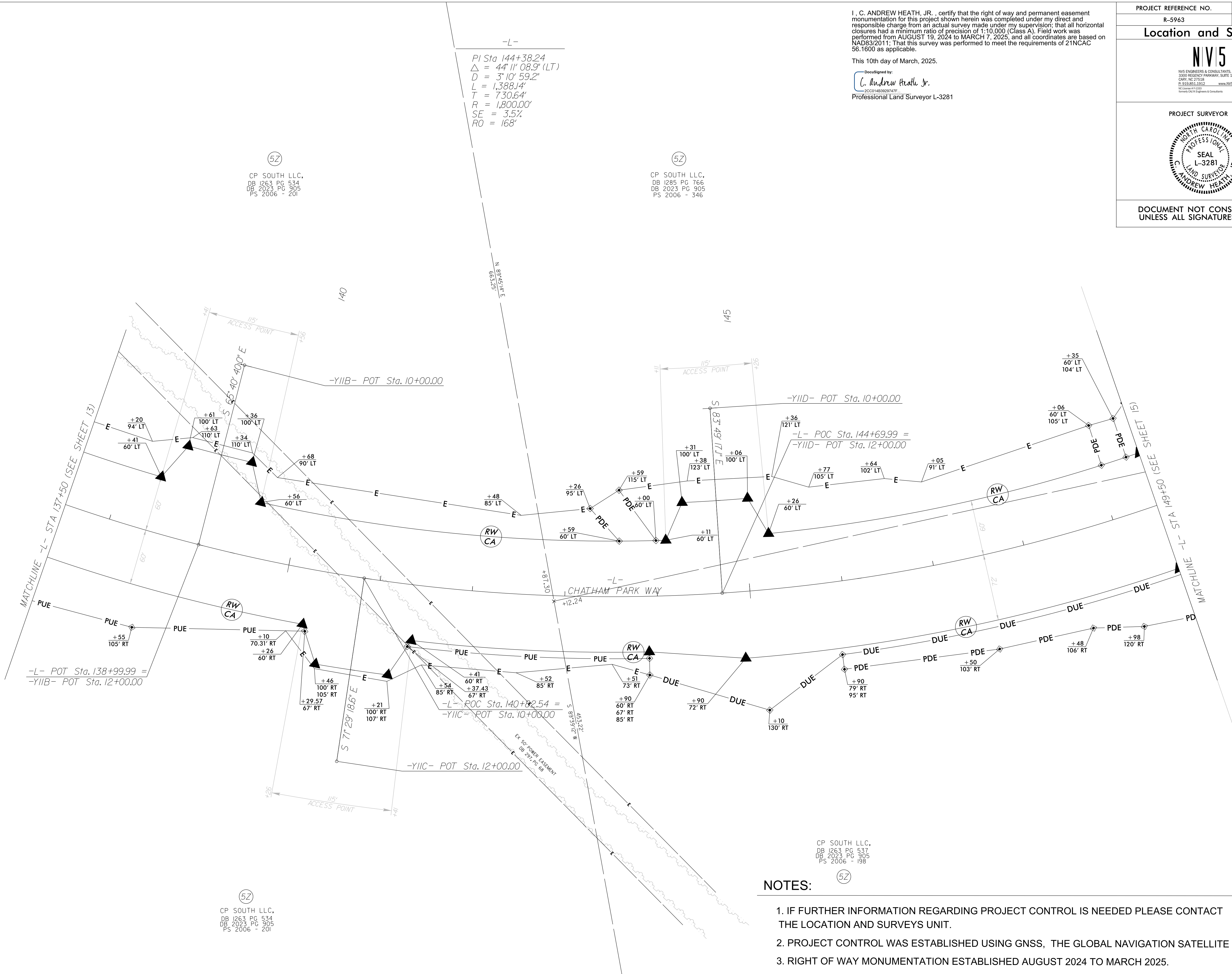
PROJECT REFERENCE NO.	SHEET NO.
R-5963	RW13
Location and Surveys	
 NIVS ENGINEERS & CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27518 P: 919.851.1912 www.NIVS.com NC LICENSE # 1-2020 formerly CIVIL Engineers & Consultants	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED AUGUST 2024 TO MARCH 2025.

REVISIONS



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 AUGUST 19, 2024 to MARCH 7, 2025, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 10th day of March, 2025.

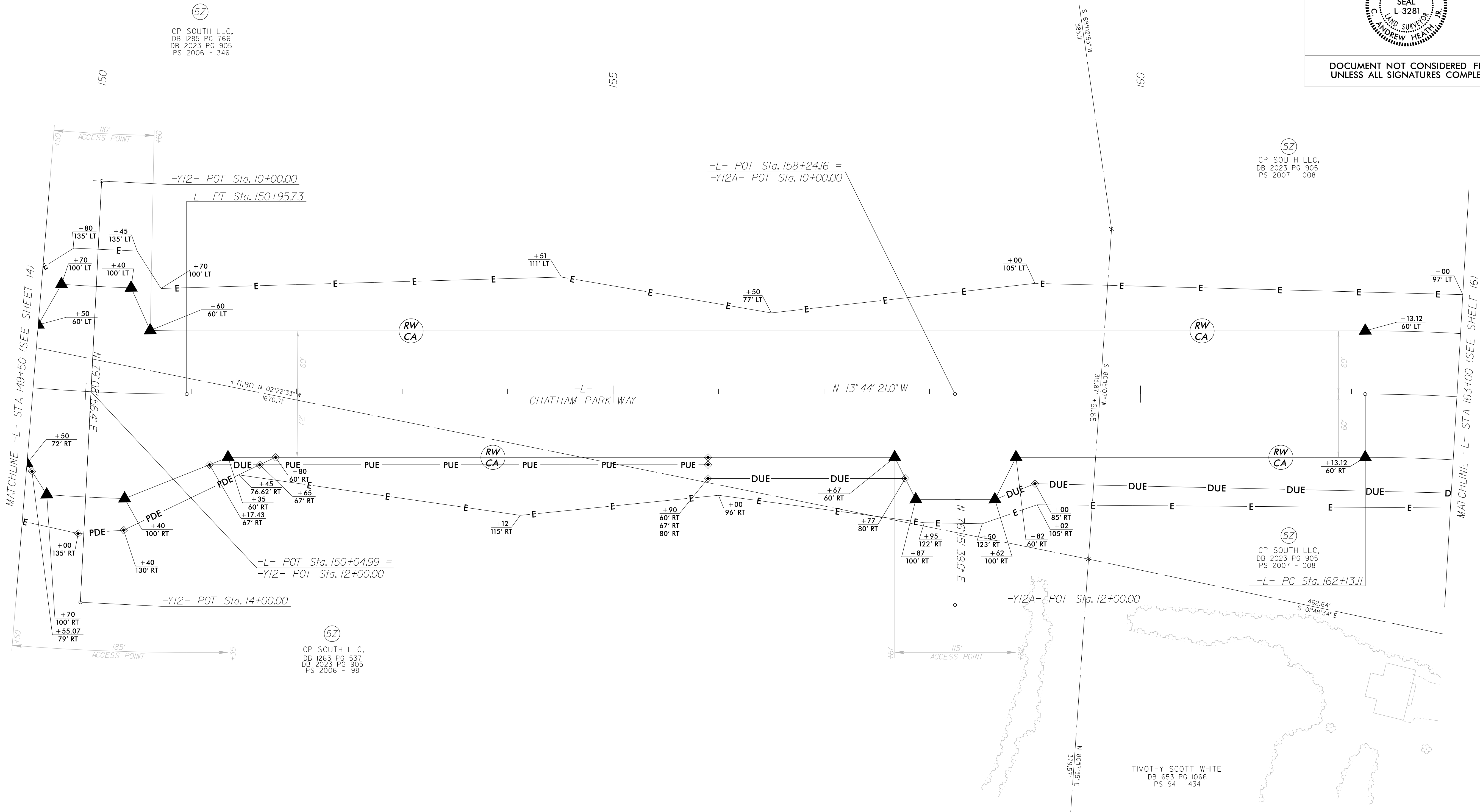
DocuSigned by:
C. Andrew Heath Jr.
25C2D14B3829747F
Professional Land Surveyor L-3281

PROJECT REFERENCE NO.	SHEET NO.
R-5963	RW14
Location and Surveys	
PROJECT SURVEYOR	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED AUGUST 2024 TO MARCH 2025.

REVISIONS



-L-
PI Sta 144+38.24
 $\Delta = 44^{\circ}11'08.9"$ (LT)
D = 3' 10' 59.2"
L = 1,388.14'
T = 730.64'
R = 1,800.00'
SE = 3.5%
RO = 168'

PI Sta 165+36.43
 $\Delta = 24^{\circ}19'40.4"$ (RT)
D = 3' 49' 11.0"
L = 636.90'
T = 323.32'
R = 1,500.00'
SE = 4%
RO = 190'

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 AUGUST 19, 2024 to MARCH 7, 2025, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 10th day of March, 2025.

DocuSigned by:
C. Andrew Heath Jr.

20C01483629747E
Professional Land Surveyor L-3281

PROJECT REFERENCE NO.	SHEET NO.
R-5963	RW15
Location and Surveys	
	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

(5Z)
CP SOUTH LLC,
DB 1285 PG 766
DB 2023 PG 905
PS 2006 - 346

(5Z)
CP SOUTH LLC,
DB 2023 PG 905
PS 2007 - 008

(5Z)
CP SOUTH LLC,
DB 2023 PG 905
PS 2007 - 008

(5Z)
CP SOUTH LLC,
DB 1263 PG 537
DB 2023 PG 905
PS 2006 - 198

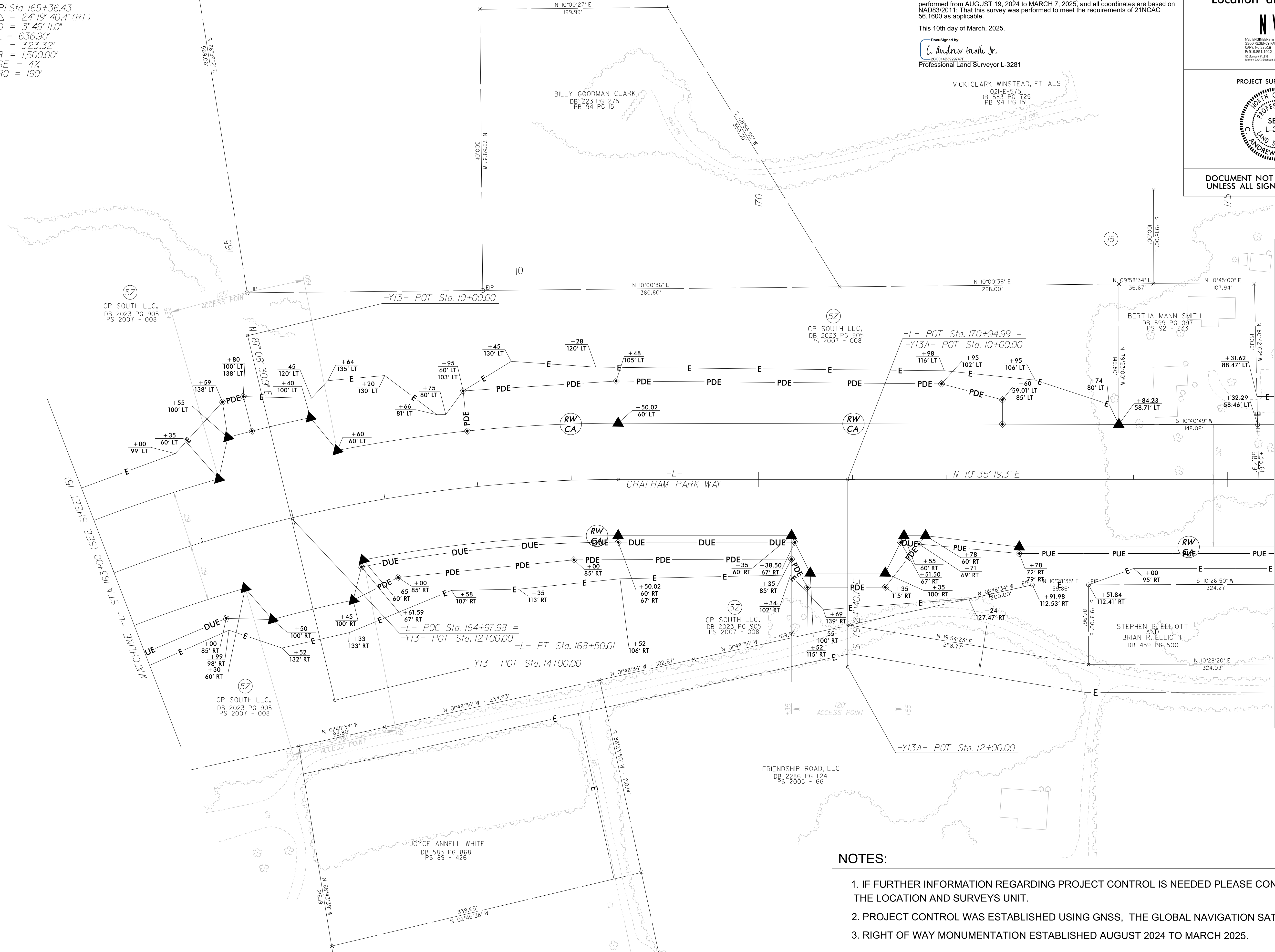
TIMOTHY SCOTT WHITE
DB 653 PG 1066
PS 94 - 434

NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED AUGUST 2024 TO MARCH 2025.

REVISIONS

-L-
PI Sta 165+36.43
 $\Delta = 24^{\circ}19'40.4''$ (RT)
 $D = 3^{\circ}49'11.0''$
 $L = 636.90'$
 $T = 323.32'$
 $R = 1,500.00'$
 $SE = 4'$
 $RO = 190'$



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 AUGUST 19, 2024 to MARCH 7, 2025, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 10th day of March, 2025.

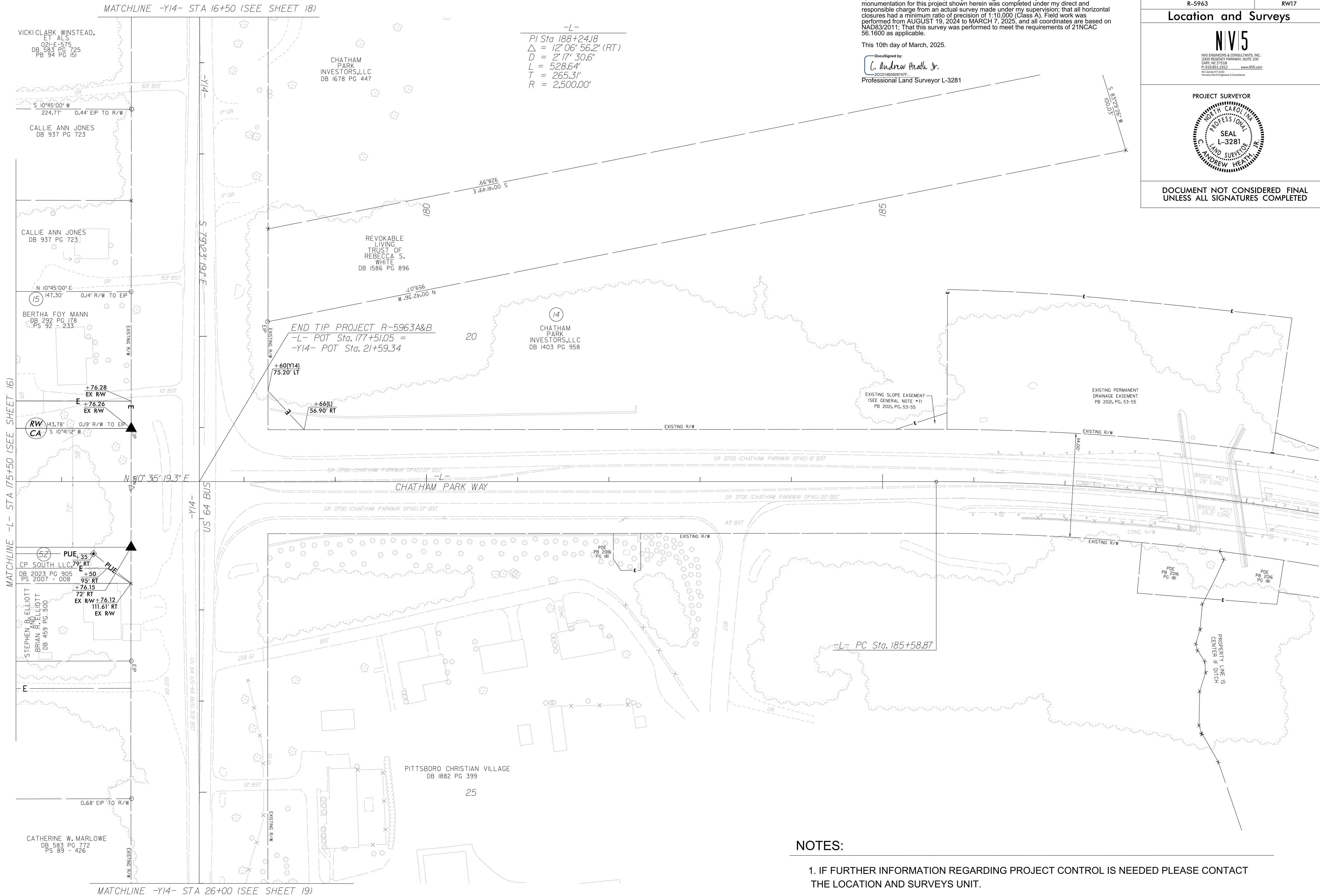
DocuSigned by:
C. Andrew Heath Jr.
202503080829Z
Professional Land Surveyor L-3281

PROJECT REFERENCE NO.	SHEET NO.
R-5963	RW16
Location and Surveys	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED AUGUST 2024 TO MARCH 2025.

REVISIONS



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 AUGUST 19, 2024 to MARCH 7, 2025, and all coordinates are based on NAD83(2011). That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 10th day of March, 2025.

DocuSigned by:
C. Andrew Heath Jr.
7C0D14B39397477
Professional Land Surveyor L-3281

PROJECT REFERENCE NO. R-5963

SHEET NO. RW17

Location and Surveys

NVI5
NVS ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P 919.851.1919
www.NVS.com
NVS is an Equal Opportunity Employer

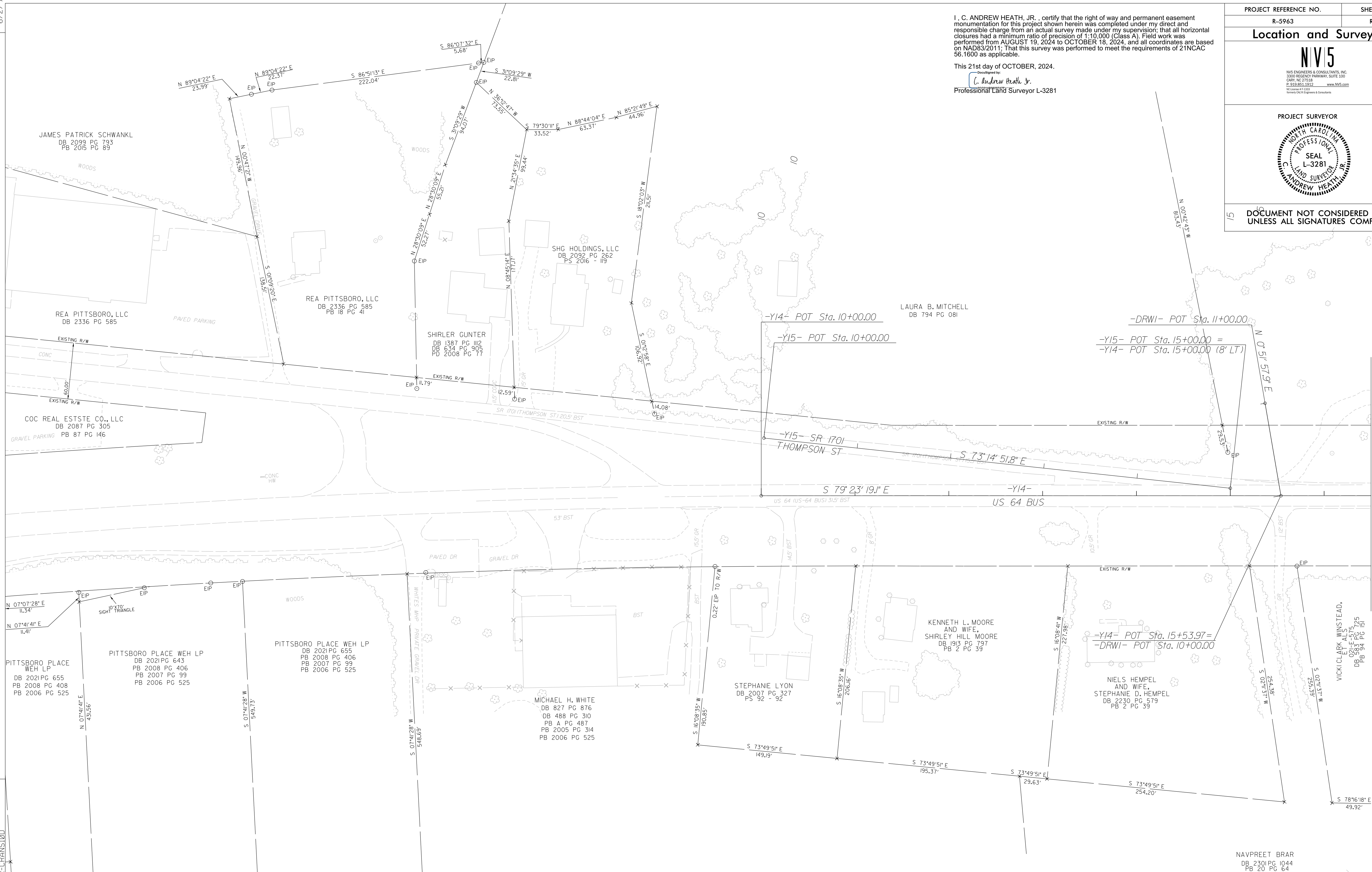
PROJECT SURVEYOR

NORTH CAROLINA
PROFESSIONAL
SEAL
L-3281
C. ANDREW HEATH, JR.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

G:\Project\2024\713324-2024014.56\SUR\rw_sheets\B-1s_rw18.dgn

REVISIONS



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 AUGUST 19, 2024 to OCTOBER 18, 2024, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 21st day of OCTOBER, 2024.

DocuSigned by:
C. Andrew Heath Jr.
2C0C15820374F

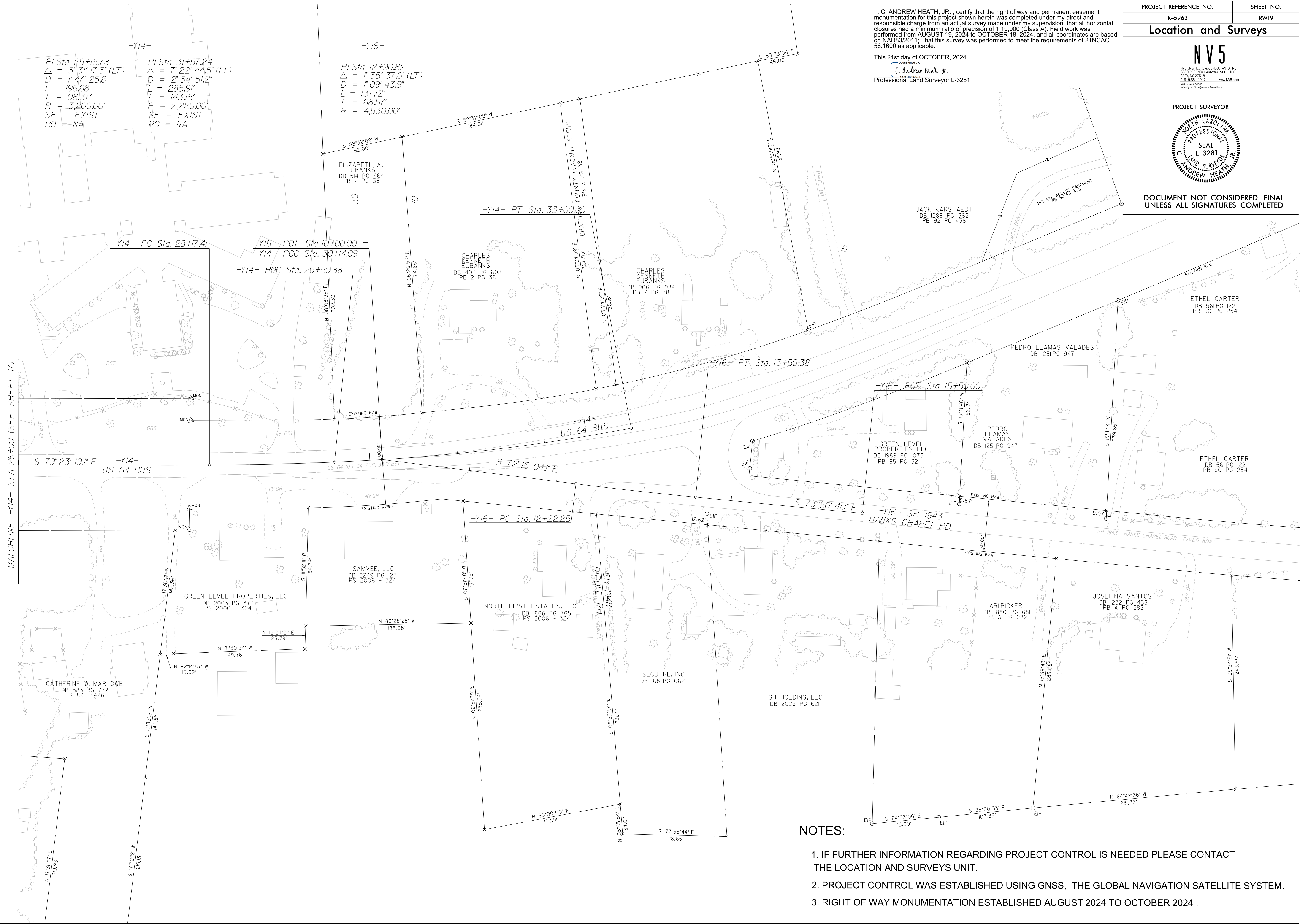
Professional Land Surveyor L-328

PROJECT REFERENCE NO.		SHEET NO.
R-3963		RW18
Location and Surveys		
 NIV5 ENGINEERS & CONSULTANTS, INC. 3350 MCGUIRE PARKWAY, SUITE 300 GARY, IN 47838 P-919.851.1912 www.niv5.com No. License # 1-12345 formerly CIVIL Engineers & Consultants		
PROJECT SURVEYOR		
		
THIS DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED AUGUST 2024 TO OCTOBER 2024 .

REVISIONS



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 AUGUST 19, 2024 to OCTOBER 18, 2024, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 21st day of OCTOBER, 2024.

C. Andrew Heath Jr.
2CC014035097475
Professional Land Surveyor L-328

PROJECT REFERENCE NO.	SHEET NO.
R-3963	RW19
Location and Surveys	
 NV5 ENGINEERS & CONSULTANTS, INC. 3300 REGENCY PARKWAY, SUITE 100 CARY, NC 27513 P-919.851.1512 www.nv5.com NC License # 1203 Formerly GVLV Engineers & Constructors	
PROJECT SURVEYOR	
	
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