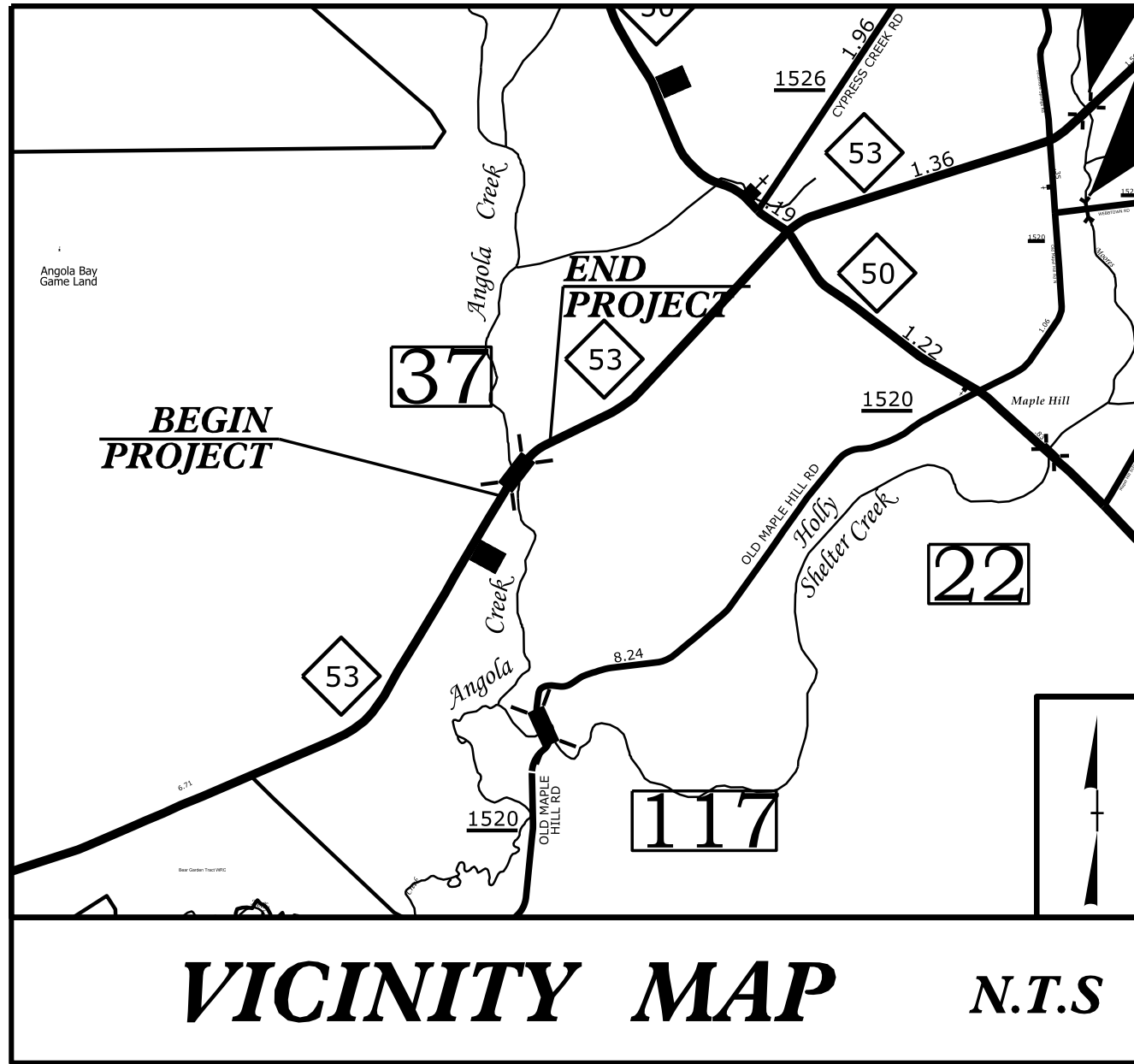


09/08/2019

PROJECT: BR-0174

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0174	RW01	10

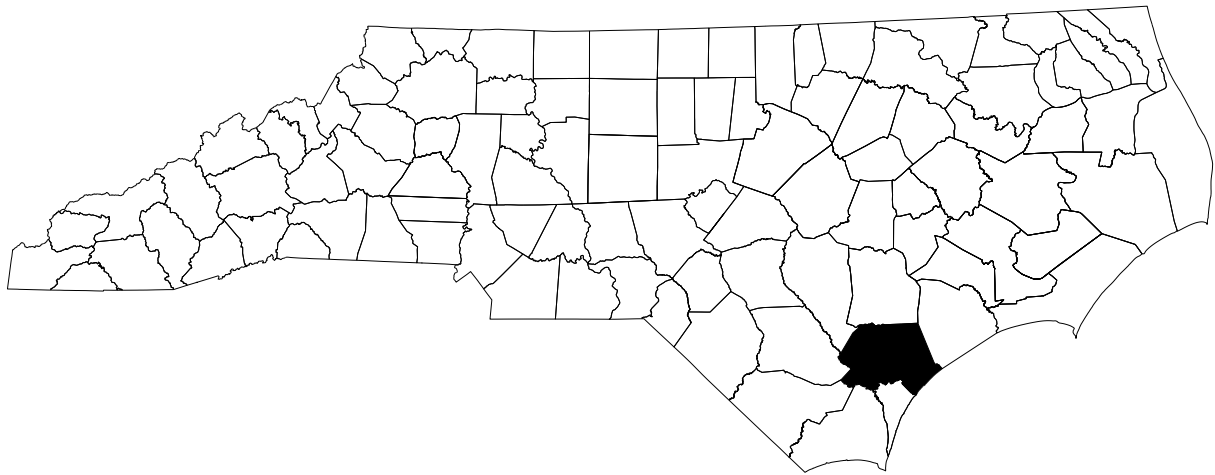
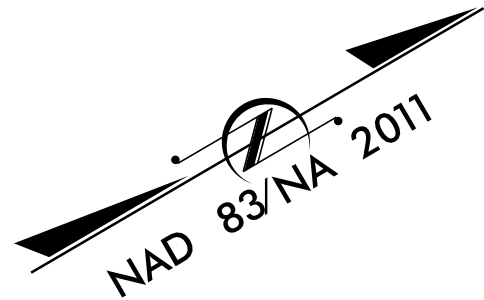


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

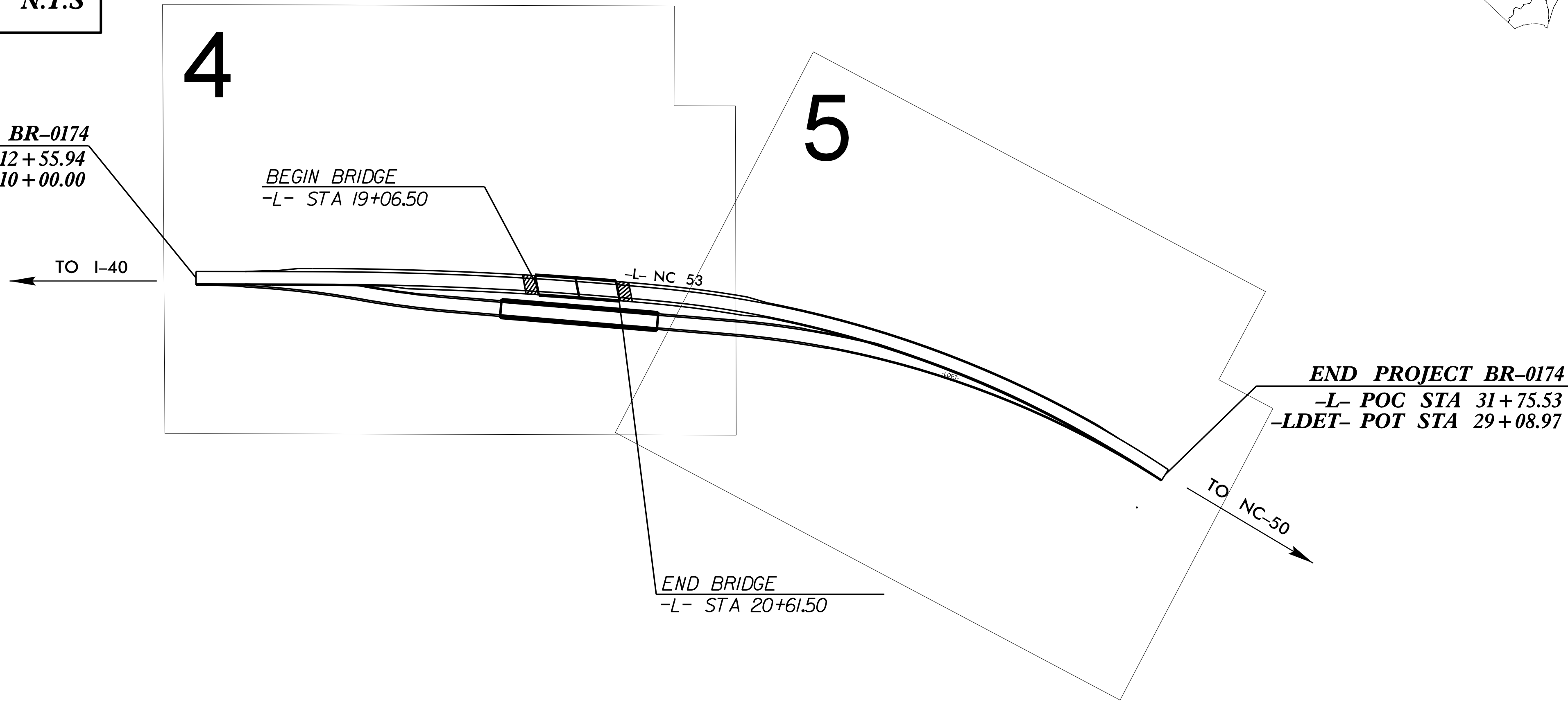
SURVEY CONTROL, EXISTING CENTERLINES,
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

PENDER COUNTY

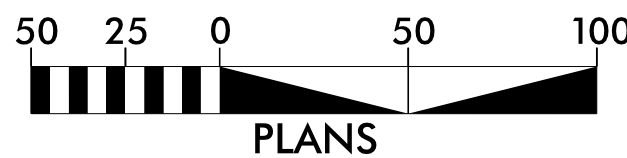
LOCATION: *REPLACE BRIDGE 700037 ON NC 53
OVER ANGOLA CREEK*



BEGIN PROJECT BR-0174
-L- POT STA 12+55.94
-LDET- POC STA 10+00.00



GRAPHIC SCALE
for **PLAN SHEETS**
RW04 AND RW05



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT
IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY
NCGS FOR MONUMENT "GPS-1"
WITH NAD 83/NA 2011
NORTHING: 331,044.008(ft) EASTING: 2,379,599.277(ft)
ELEVATION: 21.948(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT
(GROUND TO GRID) IS: 0.999931547
THE N.C. LAMBERT GRID BEARING AND
LOCALIZED HORIZONTAL GROUND DISTANCE FROM
"GPS-1" TO -L- STATION 12+55.94 IS
N 31°49'48.4" E 706.89(ft)
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:



2641-116 Sumner Blvd.
Raleigh, NC 27616
Ofc: 919.878.7466
Email: info@sam.biz

2018 STANDARD SPECIFICATIONS

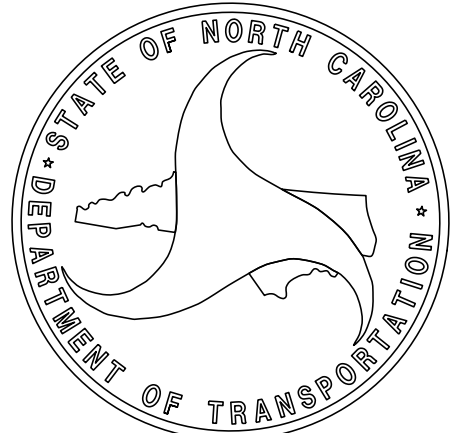
RIGHT OF WAY DATE:
10/01/2024

LETTING DATE:
10/20/2026

**PROFESSIONAL LAND
SURVEYOR**

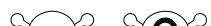
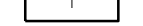


SIGNATURE: _____ Date: _____

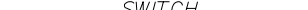


Note: Not to Scale

BOUNDARIES AND PROPERTY:

State Line	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin (EIP)	
Computed Property Corner	
Existing Concrete Monument (ECM)	
Parcel / Sequence Number	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Existing Historic Property Boundary	
Known Contamination Area: Soil	
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water	
Contaminated Site: Known or Potential	
BUILDINGS AND OTHER CULTURE:	
Gas Pump Vent or U/G Tank Cap	
Sign	
Well	
Small Mine	
Foundation	
Area Outline	
Cemetery	
Building	
School	
Church	
Dam	
HYDROLOGY:	
Stream or Body of Water	
Hydro, Pool or Reservoir	
Jurisdictional Stream	
Buffer Zone 1	
Buffer Zone 2	
Flow Arrow	
Disappearing Stream	
Spring	
Wetland	
Proposed Lateral, Tail, Head Ditch	
False Sump	

RAILROADS:

Standard Gauge	
RR Signal Milepost	
Switch	
RR Abandoned	
RR Dismantled	

RIGHT OF WAY & PROJECT CONTROL:

Primary Horiz Control Point	
Primary Horiz and Vert Control Point	
Secondary Horiz and Vert Control Point	
Vertical Benchmark	
Existing Right of Way Monument	
Proposed Right of Way Monument (Rebar and Cap)	
Proposed Right of Way Monument (Concrete)	
Existing Permanent Easement Monument	
Proposed Permanent Easement Monument (Rebar and Cap)	
Existing C/A Monument	
Proposed C/A Monument (Rebar and Cap)	
Proposed C/A Monument (Concrete)	
Existing Right of Way Line	
Proposed Right of Way Line	
Existing Control of Access Line	
Proposed Control of Access Line	
Proposed ROW and CA Line	
Existing Easement Line	
Proposed Temporary Construction Easement	
Proposed Temporary Drainage Easement	
Proposed Permanent Drainage Easement	
Proposed Permanent Drainage/Utility Easement	
Proposed Permanent Utility Easement	
Proposed Temporary Utility Easement	
Proposed Aerial Utility Easement	

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	
Proposed Slope Stakes Fill	
Proposed Curb Ramp	
Existing Metal Guardrail	
Proposed Guardrail	
Existing Cable Guiderail	
Proposed Cable Guiderail	
Equality Symbol	
Pavement Removal	
VEGETATION:	
Single Tree	
Single Shrub	
Hedge	

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS
CONVENTIONAL PLAN SHEET SYMBOLS

Woods Line	
Orchard	
Vineyard	

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	
Bridge Wing Wall, Head Wall and End Wall	
MINOR:	
Head and End Wall	
Pipe Culvert	
Footbridge	
Drainage Box: Catch Basin, DI or JB	
Paved Ditch Gutter	
Storm Sewer Manhole	
Storm Sewer	

UTILITIES:

<i>* SUE - Subsurface Utility Engineering LOS - Level of Service - A,B,C or D (Accuracy)</i>	
POWER:	
Existing Power Pole	
Proposed Power Pole	
Existing Joint Use Pole	
Proposed Joint Use Pole	
Power Manhole	
Power Line Tower	
Power Transformer	
U/G Power Cable Hand Hole	
H-Frame Pole	
U/G Power Line Test Hole (SUE - LOS A)*	
U/G Power Line (SUE - LOS B)*	
U/G Power Line (SUE - LOS C)*	
U/G Power Line (SUE - LOS D)*	

TELEPHONE:

Existing Telephone Pole	
Proposed Telephone Pole	
Telephone Manhole	
Telephone Pedestal	
Telephone Cell Tower	
U/G Telephone Cable Hand Hole	
U/G Telephone Test Hole (SUE - LOS A)*	
U/G Telephone Cable (SUE - LOS B)*	
U/G Telephone Cable (SUE - LOS C)*	
U/G Telephone Cable (SUE - LOS D)*	
U/G Telephone Conduit (SUE - LOS B)*	
U/G Telephone Conduit (SUE - LOS C)*	
U/G Telephone Conduit (SUE - LOS D)*	
U/G Fiber Optics Cable (SUE - LOS B)*	
U/G Fiber Optics Cable (SUE - LOS C)*	
U/G Fiber Optics Cable (SUE - LOS D)*	

WATER:

Water Manhole	
Water Meter	
Water Valve	
Water Hydrant	
U/G Water Line Test Hole (SUE - LOS A)*	
U/G Water Line (SUE - LOS B)*	
U/G Water Line (SUE - LOS C)*	
U/G Water Line (SUE - LOS D)*	
Above Ground Water Line	

TV:

TV Pedestal	
TV Tower	
U/G TV Cable Hand Hole	
U/G TV Test Hole (SUE - LOS A)*	
U/G TV Cable (SUE - LOS B)*	
U/G TV Cable (SUE - LOS C)*	
U/G TV Cable (SUE - LOS D)*	
U/G Fiber Optic Cable (SUE - LOS B)*	
U/G Fiber Optic Cable (SUE - LOS C)*	
U/G Fiber Optic Cable (SUE - LOS D)*	

GAS:

Gas Valve	
Gas Meter	
U/G Gas Line Test Hole (SUE - LOS A)*	
U/G Gas Line (SUE - LOS B)*	
U/G Gas Line (SUE - LOS C)*	
U/G Gas Line (SUE - LOS D)*	
Above Ground Gas Line	

SANITARY SEWER:

Sanitary Sewer Manhole	
Sanitary Sewer Cleanout	
U/G Sanitary Sewer Line	
Above Ground Sanitary Sewer	
SS Force Main Line Test Hole (SUE - LOS A)*	
SS Force Main Line (SUE - LOS B)*	
SS Force Main Line (SUE - LOS C)*	
SS Force Main Line (SUE - LOS D)*	

MISCELLANEOUS:

Utility Pole	
Utility Pole with Base	
Utility Located Object	
Utility Traffic Signal Box	
Utility Unknown U/G Line (SUE - LOS B)*	
U/G Tank; Water, Gas, Oil	
Underground Storage Tank, Approx. Loc.	
A/G Tank; Water, Gas, Oil	
Geoenviromental Boring	
Abandoned According to Utility Records	
End of Information	

6/2/99

REVISIONS

12-AUG-2025 13:17
\\saminc\RAL\PROJECTS\1023084792\100\Survey\02Base\Control Sheets\BR-0174 control sheets.dgn
Victoria Reynolds AT CHG-L-PF 53DAM

I, Joel F. Alvarado, 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: Static
Dates of survey: January 2024
Datum/Epoch: NAD 83/2011
Published/Fixed-control use: NCCH, NCJV, and NCKN CORS
Localized around: GPS-1
Northing: 331044.008
Easting: 2379599.277
Combined grid factor: 0.99993154659
Geoid model: 18
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 January 2nd to January 17th 2024, 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 12th day of August, 2025.

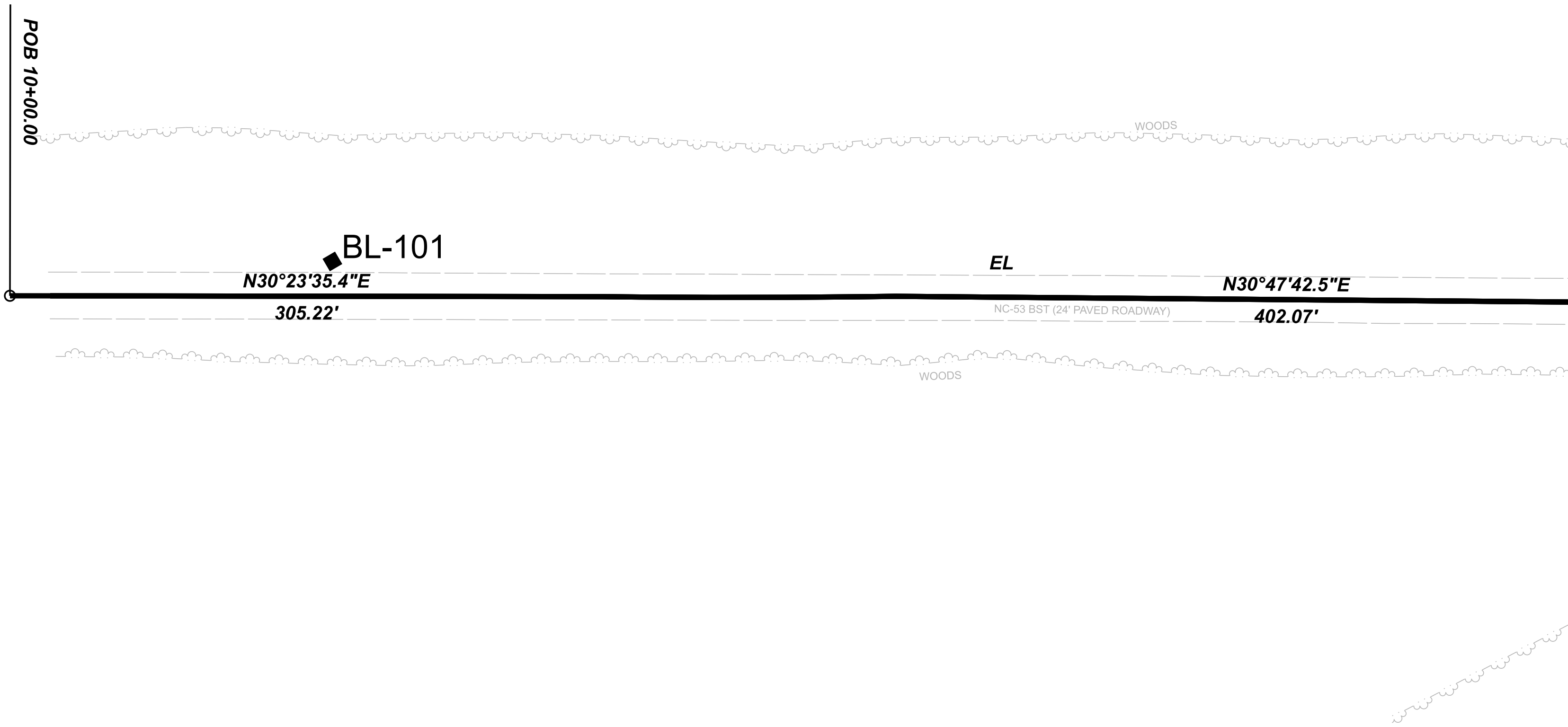
Professional Land Surveyor L-5433

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
BR-0174	RW02C-1
Location and Surveys	
 2641-116 Sumner Blvd. Raleigh, NC 27616 Ofc: 919.878.7468 Email: info@sam.biz	
PROJECT SURVEYOR	
	

GPS-1



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-AUG-2025 12:54
\\saminc\RAL\PROJECTS\1023084792\100\Survey\02Base\Control Sheets\BR-0174 control sheets.dgn
Victoria Reynolds
AT CHG-L-PF 53DAM

REVISIONS

I, Joel F. Alvarado, 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: Static
Dates of survey: January 2024
Datum/Epoch: NAD 83/2011
Published/Fixed-control use: NCCH, NCJV, and NCKN CORS
Localized around: GPS-1
Northing: 331044.008
Easting: 2379599.277
Combined grid factor: 0.99993154659
Geoid model: 18
Units: US Survey Feet

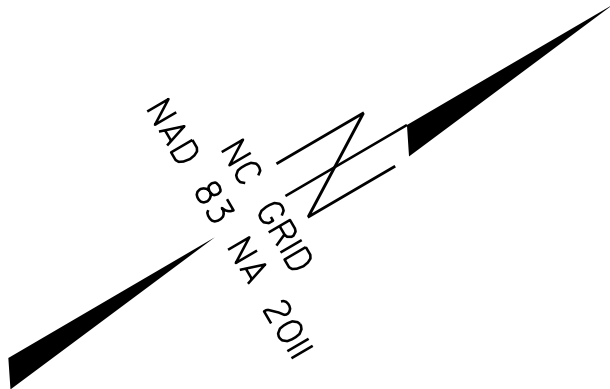
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This 12th day of August, 2025.

Professional Land Surveyor L-5433

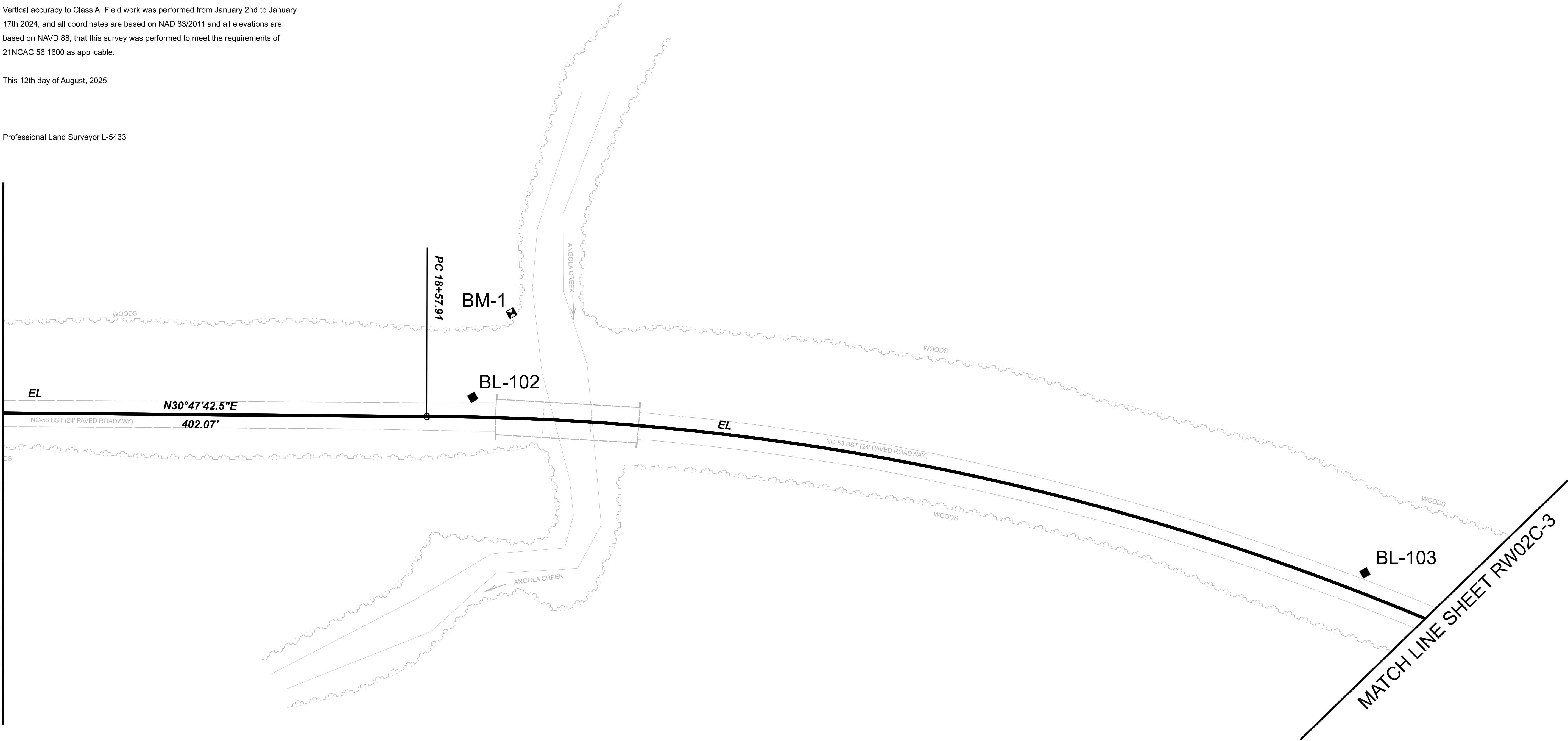
SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



PROJECT REFERENCE NO.	SHEET NO.
BR-0174	RW02C-2
Location and Surveys	
 2641-116 Summer Blvd. Raleigh, NC 27616 Ofc: 919.878.7468 Email: info@sam.biz	
PROJECT SURVEYOR	
	

MATCH LINE SHEET RW02C-1



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.

6/2/99

REVISIONS

12-AUG-2025 12:46
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Victoria Reynolds - AT CHA-L-PF53DAM

I, Joel F. Alvarado, 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: Static
Dates of survey: January 2024
Datum/Epoch: NAD 83/2011
Published/Fixed-control use: NCCH, NCJV, and NCKN CORS
Localized around: GPS-1
Northing: 331044.008
Easting: 2379599.277
Combined grid factor: 0.99993154659
Geoid model: 18
Units: US Survey Feet

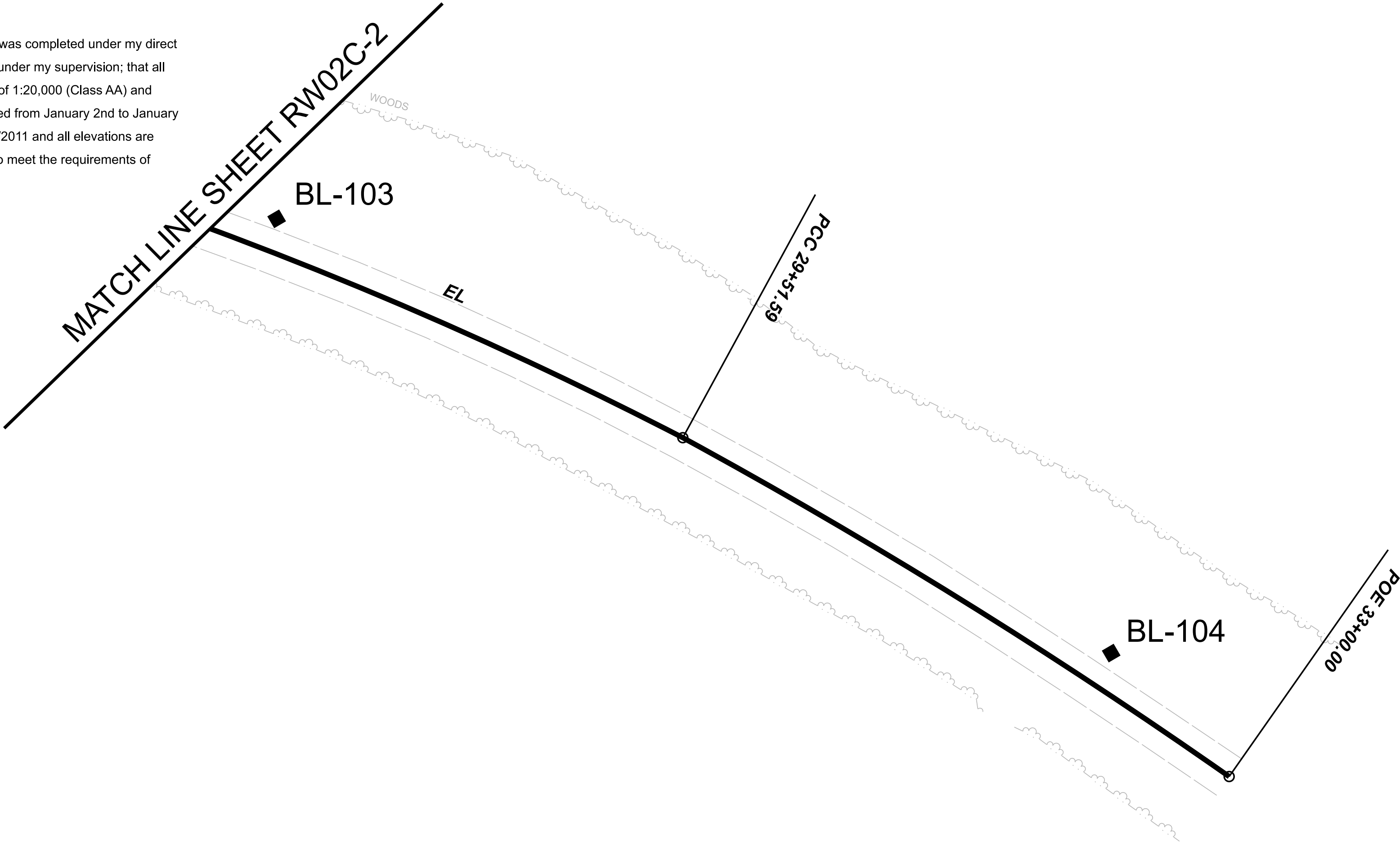
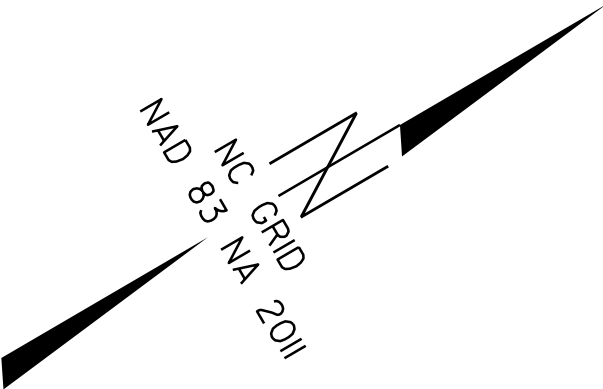
I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from January 2nd to January 17th 2024, 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 12th day of August, 2025.

Professional Land Surveyor L-5433

SURVEY CONTROL SHEET

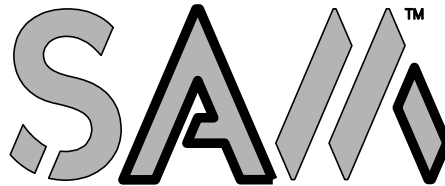
W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



GPS-2

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.

PROJECT REFERENCE NO.	SHEET NO.
BR-0174	RW02C-3
Location and Surveys	
 2641-116 Sumner Blvd. Raleigh, NC 27616 Ofc: 919.878.7468 Email: info@sam.biz	
PROJECT SURVEYOR	
	

6/2/99

REVISIONS

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Victoria Reynolds AT CHA-L-PF 53DAM

I, Joel F. Alvarado, 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: Static
Dates of survey: January 2024
Datum/Epoch: NAD 83/2011
Published/Fixed-control use: NCCH, NCJV, and NCKN CORS
Localized around: GPS-1
Northing: 331044.008
Easting: 2379599.277
Combined grid factor: 0.99993154659
Geoid model: 18
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 January 2nd to January 17th 2024, 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 12th day of August, 2025.

Professional Land Surveyor L-5433

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BL

POINT	DESC	NORTH	EAST	ELEVATION
BL-101	TRAVERSE CAP AND REBAR	331576.043	2379911.072	22.115
BL-102	TRAVERSE CAP AND REBAR	332206.450	2380284.524	23.762
BL-103	TRAVERSE CAP AND REBAR	332811.377	2380818.395	23.486
BL-104	TRAVERSE CAP AND REBAR	333082.888	2381249.603	22.623

GPS

POINT	DESC	NORTH	EAST	ELEVATION
GPS-1	GPS CAP AND REBAR	331044.008	2379599.277	21.948
GPS-2	GPS CAP AND REBAR	333346.880	2381808.051	19.913

BM1 ELEVATION = 22.709
N 332,273.7910 E 2,380,237.5510
EL STATION 9+09.32 92.97' (LT)
BENCHTIE IN 12" OAK

EXISTING ALIGNMENT NAME:EL									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
POB	331423.825	2379842.604							
LINE			N30°23'35"E	305.225					
PC	331687.104	2379997.027							
CURVE					1.419° Left	0.942°	150.616	75.312	6080.000
PT	331817.226	2380072.872							
LINE			N30°47'43"E	402.070					
PC	332162.605	2380278.720							
CURVE					27.245° Right	2.491°	1093.675	557.380	2300.000
PCC	332941.464	2381031.804							
CURVE					6.440° Right	1.848°	348.412	174.390	3100.000

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.
BR-0174

SHEET NO.
RW02C-4

Location and Surveys

SAM™

2641-116 Sumner Blvd.
Raleigh, NC 27616
Ofc: 919.878.7468
Email: info@sam.biz

PROJECT SURVEYOR

NORTH CAROLINA
PROFESSIONAL
SEAL
L-5433
JOEL F. ALVARADO

6/2/99

REVISIONS

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Victoria Reynolds - AT CH61-PF53DAAM

PROPOSED ALIGNMENT CONTROL SHEET

L

TYPE	STATION	NORTH	EAST
POB	10+00.00	331423.825	2379842.604
PC	14+77.67	331835.853	2380084.274
PCC	21+47.73	332396.939	2380450.103
PCC	30+40.27	332987.245	2381110.276
PT	32+97.83	333104.300	2381339.615

LDET

TYPE	STATION	NORTH	EAST
POB	10+00.00	331644.594	2379972.094
PRC	13+18.54	331903.708	2380156.665
PT	14+90.84	332039.800	2380262.190
PC	20+28.31	332479.810	2380570.834
PT	29+08.97	333051.094	2381229.503

NOTES:

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

PROJECT REFERENCE NO.
BR-0174

SHEET NO.
RW02D-1

Location and Surveys



2641-116 Sumner Blvd.
Raleigh, NC 27616
Ofc: 919.878.7466
Email: info@sam.biz

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

I, Joel F. Alvarado, PLS, 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.

This 12th day of August, 2025.

Professional Land Surveyor L-5433

REVISIONS

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12-AUG-2025 10:25
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Victoria Reynolds - AT CH&I - PF53DAAM

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.
BR-0174

SHEET NO.
RW03E-1

Location and Surveys



2641-116 Summer Blvd.
Raleigh, NC 27616
Ofc: 919.878.7466
Email: info@sam.biz

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PERMANENT ROW MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
L	18+30.00	43.489	332111.361	2380306.385
L	18+30.00	50.000	332107.791	2380311.831
L	22+76.74	50.000	332467.392	2380567.452
L	22+77.26	42.915	332472.280	2380562.298

PERMANENT EASEMENT MARKER IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
L	24+50.00	80.00	332572.474	2380701.609
L	24+50.00	46.68	332595.706	2380677.722
L	28+30.00	-65.00	332927.901	2380895.176
L	28+30.00	-50.18	332915.802	2380903.778
L	29+15.00	-50.46	332964.808	2380975.692
L	29+15.00	-65.00	332977.020	2380967.793
L	30+20.00	49.97	332933.923	2381117.642

- 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.

I, Joel F. Alvarado, 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 January 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 12th day of August, 2025.

Professional Land Surveyor L-5433

CUR DATA -L-
Pic 18+12.95
 $\Delta c = 05^{\circ}25'21.2''$ (RT)
 $D = 00^{\circ}48'33.3''$
 $Lc = 670.06$
 $Tc = 335.28$
 $R = 7,080$
 $SE = 0.025$
 $RO = 60$
 $DS = 60$

CUR DATA -LDET-
Plc 11+59.69
 $\Delta c = 10^{\circ}08'22.5''$ (RT)
D = $03^{\circ}10'59.2''$
Lc = 318.54
Tc = 159.69
R = 1,800

CUR DATA -LDET-
Plc 14+04.74
 $\Delta c = 05^{\circ}29'03.7''$ (LT)
D = $03^{\circ}10'59.2''$
Lc = 172.30
Tc = 86.21
R = 1,800

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.

MATCH LINE SHEET RW05

THE WILLOUGHBY TOWNSEND LLC
DB 4676 / PG 0441

JUSTIN COUSINS LLC
PB 65 / PG 48
DB 4758 / PG 557

2
LEORA LANIER MEADOWS
DB 485 / PG 59

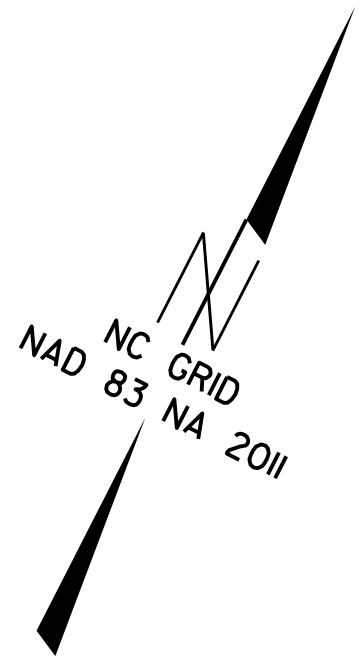
12-AUG-2025 10:44
\\saminc\RAL\PROJECTS\1023084792\1000 Survey\42Base\Control Sheets\BR-0174 control sheets.dgn
ALPHA-1-PR531DAM
Electronics Recalls

6/2/99

REVISIONS

12-AUG-2025 10:58
\\srmc\RAL\PROJECTS\1023084792\100\Survey\02Base\Control Sheets\BR-0174 control sheets.dgn
Victorio Reynolds - AT CHA1-PF530AAM

MATCH LINE SHEET RW04



25 -L-

③
THE WILLOUGHBY TOWNSEND LLC
DB 4676 / PG 0441

CUR DATA -L-
Plc 26+01.08
 $\Delta c = 24^\circ 45' 51.7''$ (RT)
 $D = 02^\circ 46' 28.6''$
 $Lc = 892.53$
 $Tc = 453.35$
 $R = 2,065$
 $SE = 0.040$
 $RO = 96$
 $DS = 60$

25 -LDET-

30 -L-

-L- POC 30+40.27

CUR DATA -L-
Plc 31+69.12
 $\Delta c = 04^\circ 45' 37.2''$ (RT)
 $D = 01^\circ 50' 53.7''$
 $Lc = 257.56$
 $Tc = 128.85$
 $R = 3,100$
 $SE = EXIST.$
 $RO = EXIST.$
 $DS = EXIST.$

-LDET- POE 29+08.97

-L- POE 32+97.83

I, Joel F. Alvarado, 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 January 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 12th day of August, 2025.

Professional Land Surveyor L-5433

PROJECT REFERENCE NO.	SHEET NO.
BR-0174	RW05
Location and Surveys	
	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-LDET-

CUR DATA -LDET-
Plc 24+77.64
 $\Delta c = 28^\circ 01' 56.0''$ (RT)
 $D = 03^\circ 10' 59.2''$
 $Lc = 880.66$
 $Tc = 449.33$
 $R = 1,800$

④
CHARLES T SCARBOROUGH
PB 4 / PG 97
DB 4184 / PG 281

NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.