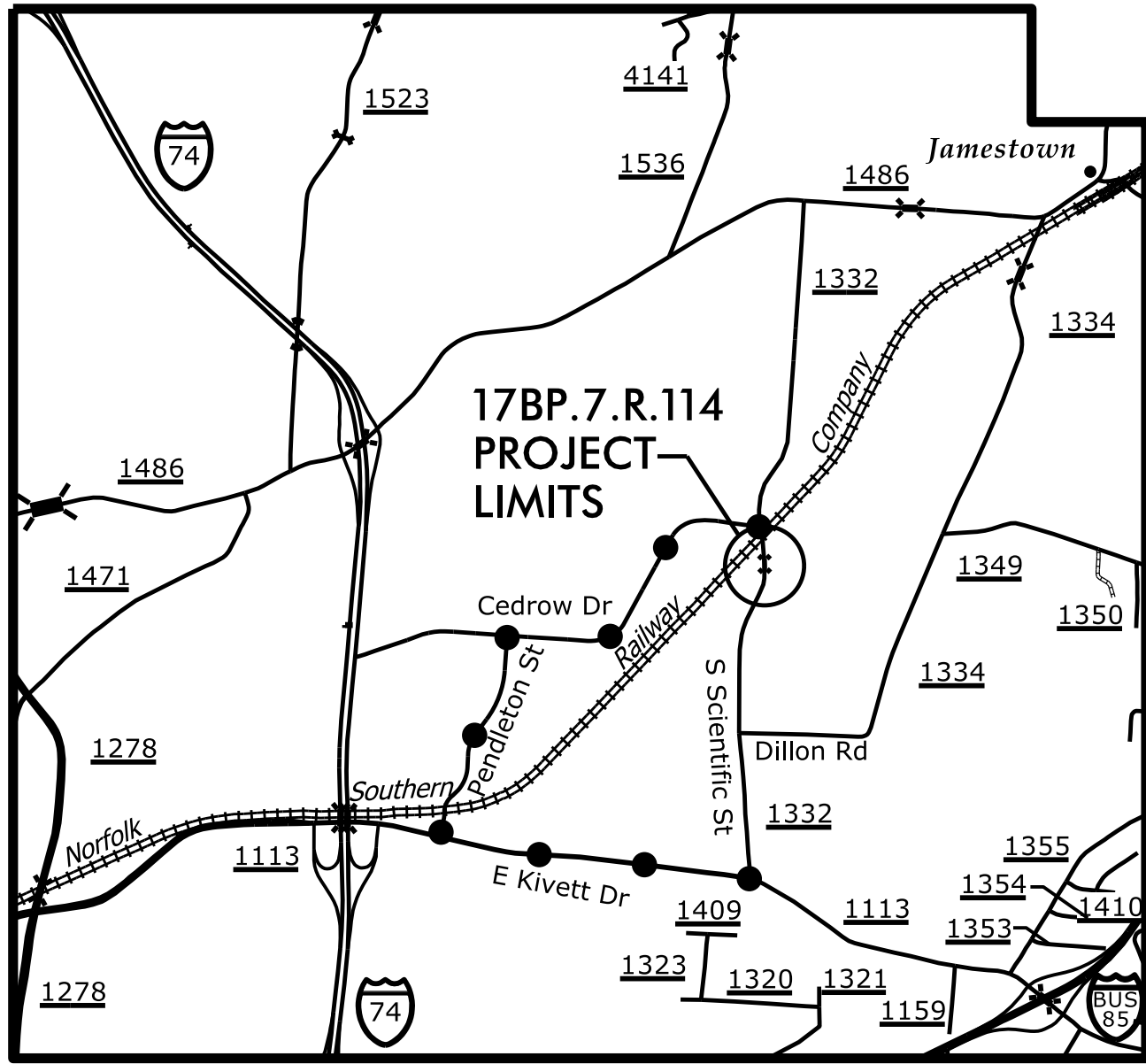


09/08/2019

TIP PROJECT: 17BP.7.R.114

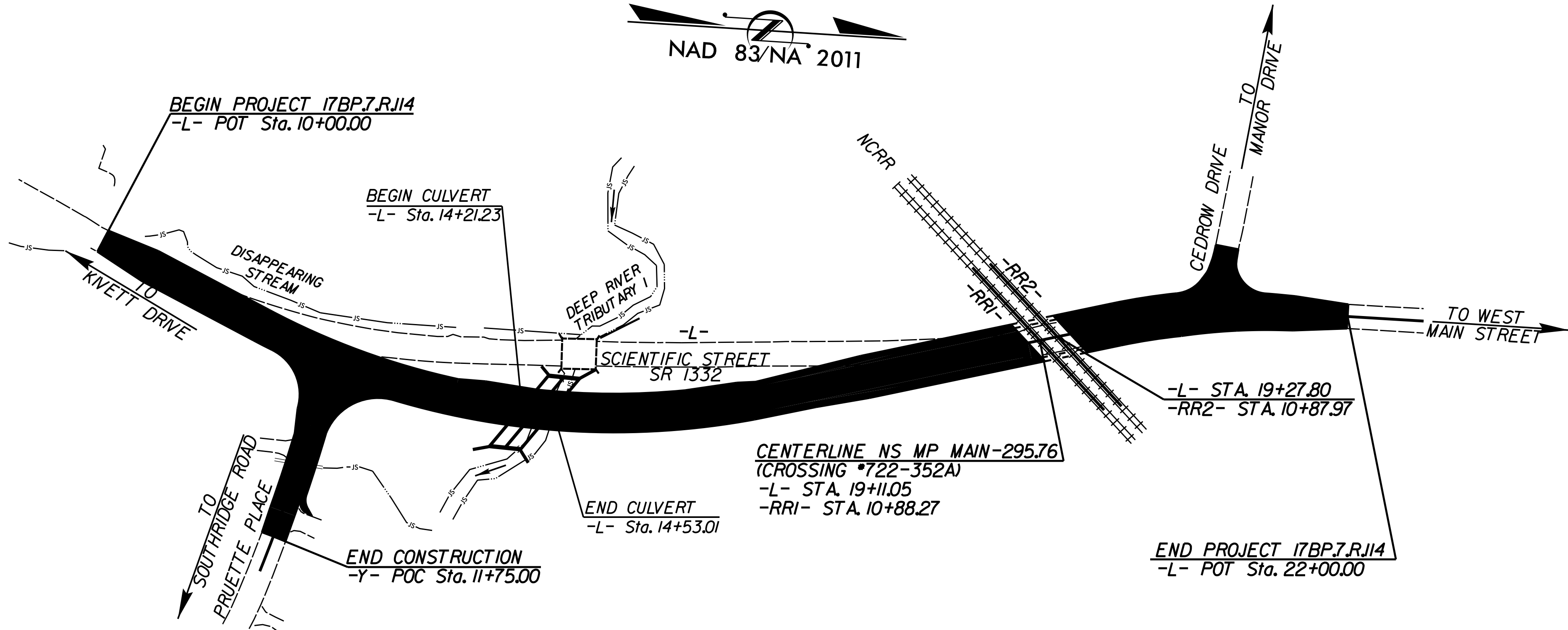
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	17BP.7.R.114	RW01	4



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

GUILFORD COUNTY

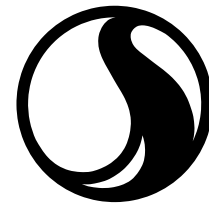


GRAPHIC SCALE



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "HAWTHORNE RESET" WITH HARN-NAD 83/95 STATE PLANE GRID COORDINATES OF NORTHING: 851,336.3748(ft) EASTING: 1,722,541.0825(ft) ELEVATION: 890.88(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999940190 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "HAWTHORNE RESET" TO -L- STATION 10+00.00 IS N 06°35'46.7" E 39,957.38(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88



Prepared in the Office of:

Stantec

ONE WEST FOURTH ST., SUITE 820
WINSTON SALEM, N.C. 27101
LICENSE NO.: F-0672
www.stantec.com

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
06/06/2018

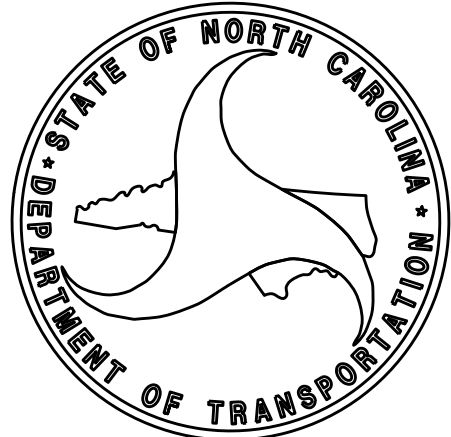
LETTING DATE:
08/18/2026

PROFESSIONAL LAND
SURVEYOR



Signed by:
Tony D. Carpenter
Date:

6/4/2026



6/2/95

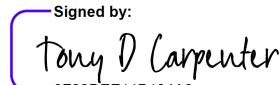
REVISIONS

I, Tony D. Carpenter, PLS. certify that the Project Control was verified 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: 05/06/26 - 05/08/26
Datum/Epoch: NAD 83/95
Published/Fixed-control use: HAWTHORNE RESET
Localized around: HAWTHORNE RESET
Northing: 851,336.3748
Easting: 1,722,541.0825
Combined grid factor: 0.999940190
Geoid model: GEIOD 12B
Units: US SURVEY FOOT

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 05/06/2026 to 05/08/2026, and all coordinates are based on NAD 83/95 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

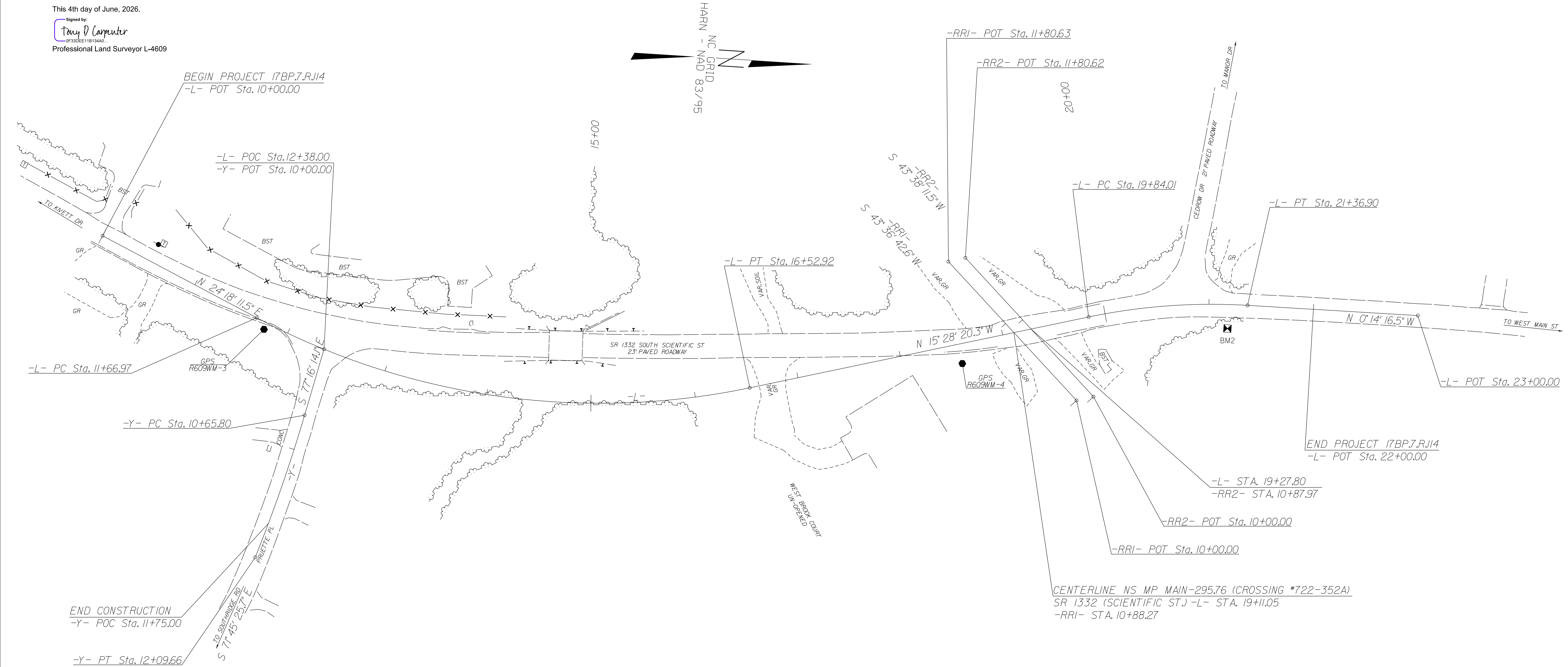
This 4th day of June, 2026.

Signed by:

Professional Land Surveyor L-4609

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
17BP.7.R.114	RW02C-1
Location and Surveys	
 ONE WEST FOURTH ST., SUITE 820 WINSTON SALEM, N.C. 27101 LICENSE NO.: F-0672 www.stantec.com	
PROJECT SURVEYOR 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



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.

6/2/2026

REVISIONS

6/2/2026

SURVEY CONTROL SHEET
W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

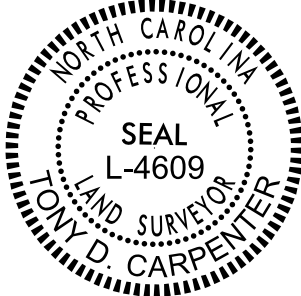
PROJECT REFERENCE NO.
17BP.7.R.114

SHEET NO.
RW02C-2

Location and Surveys



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PROJECT SURVEYOR


DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

BL	POINT	DESC.	NORTH	EAST	ELEVATION
3		GPS R609WM-3	811803.2690	1718030.4160	780.57
4		GPS R609WM-4	812471.9110	1718020.2820	793.18

BM2 ELEVATION = 802.22'
N 812723 E 1717971
BL STATION 11+68.72
N 11°11'22" W DIST 255.78'
RAILROAD SPIKE SET IN 18" SWEETGUM TREE

I, Tony D. Carpenter, PLS, certify that the Project Control was verified 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: 05/06/26 - 05/08/26
Datum/Epoch: NAD 83/95
Published/Fixed-control use: HAWTHORNE RESET
Localized around: HAWTHORNE RESET
Northing: 851,336.3748
Easting: 1,722,541.0825
Combined grid factor: 0.999940190
Geoid model: GEI0D 12B
Units: US SURVEY FOOT

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 05/06/2026 to 05/08/2026, and all coordinates are based on NAD 83/95 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 4th day of June, 2026.

Signed by:

Professional Land Surveyor L-4609

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

SYTIME\$UN\$US\$R\$K\$VE\$S\$

SURVEY CONTROL SHEET
W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	811637.068	1717948.500							
LINE			N 23°54'34.3" E	70.33					
PC	811701.360	1717977.003							
CURVE			N 10°37'03.6" E	298.88	26°35'01.4"(LT)	08°48'53.0"	301.58	153.56	650.00
PT	811995.128	1718032.074							
LINE			N 02°40'27.1" W	134.00					
PC	812128.984	1718025.822							
CURVE			N 03°32'01.6" W	85.96	01°43'09.1"(LT)	02°00'00.0"	85.96	42.98	2864.79
PT	812214.776	1718020.523							
LINE			N 04°23'36.2" W	201.98					
PC	812416.166	1718005.051							
CURVE			N 09°55'58.2" W	110.62	11°04'44.0"(LT)	09°59'59.9"	110.79	55.57	572.96
PT	812525.124	1717985.970							
LINE			N 15°28'20.3" W	67.18					
PC	812589.870	1717968.048							
CURVE			N 07°51'18.4" W	151.90	15°14'03.6"(RT)	09°59'59.9"	152.34	76.62	572.96
PT	812740.340	1717947.289							
LINE			N 00°14'16.5" W	169.09					
PC	812909.433	1717946.587							
CURVE			N 00°54'54.2" E	76.86	02°18'21.4"(RT)	03°00'00.0"	76.87	38.44	1909.86
PT	812986.283	1717947.814							
LINE			N 02°04'04.9" E	21.57					
POT	813007.841	1717948.593							

EY POINT	N	E	BEARING	DIST
POT	812707.990	1717732.380		
LINE			S 82°50'26.6" E	220.00
POT	812680.572	1717950.665		

EY1 POINT	N	E	BEARING	DIST
POT	811863.397	1718024.823		
LINE			S 79°14'43.2" E	79.75
POT	811848.516	1718103.170		

EXDRIVEWAY POINT	N	E	BEARING	DIST
POT	812710.045	1717948.228		
LINE			N 74°17'22.6" W	75.00
POT	812730.353	1717876.030		

PROJECT REFERENCE NO.
17BP.7.R.114

SHEET NO.
RW02C-3

Location and Surveys

**Stantec**
ONE WEST FOURTH ST., SUITE 820
WINSTON SALEM, N.C. 27101
LICENSE NO.: F-0672
www.stantec.com

PROJECT SURVEYOR


DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

I, Tony D. Carpenter, PLS, certify that the Project Control was verified 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: 05/06/26 - 05/08/26
Datum/EPOCH: NAD 83/95
Published/Fixed-control use: HAWTHORNE RESET
Localized around: HAWTHORNE RESET
Northing: 851,336.3748
Easting: 1,722,541.0825
Combined grid factor: 0.999940190
Geoid model: GEI0D 12B
Units: US SURVEY FOOT

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 05/06/2026 to 05/08/2026, and all coordinates are based on NAD 83/95 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 4th day of June, 2026.

Signed by:

0F33DEE11B134A02
Professional Land Surveyor L-4609

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.

6/2/2026

REVISIONS

6/2/2026
T.D. CARPENTER
PROFESSIONAL LAND SURVEYOR
L-4609

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.
17BP.7.R.114

SHEET NO.
RW03E-1

Location and Surveys



Stantec
ONE WEST FOURTH ST., SUITE 820
WINSTON SALEM, N.C. 27101
LICENSE NO.: F-0672
www.stantec.com

PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

I, Tony D. Carpenter, 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 05/06/2026 to 05/08/26, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 4th day of June, 2026.


Professional Land Surveyor L-4609

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	10+00.00	33.74	811629.6215	1717981.8075
L	10+09.61	-29.60	811664.4528	1717928.0377
L	10+50.00	45.00	811670.5545	1718012.6520
L	12+00.00	45.00	811809.5260	1718074.4996
L	13+00.00	60.00	811907.4585	1718121.0796
L	13+30.00	50.00	811941.1945	1718118.1373
L	13+65.00	95.00	811971.8374	1718168.8948
L	13+95.00	90.00	812006.1531	1718167.9922
L	14+42.72	-82.61	812065.1099	1717998.9266
L	15+00.00	70.00	812123.4784	1718150.7907
L	16+36.86	50.00	812267.2220	1718109.0339
L	16+96.05	50.00	812325.4255	1718093.1277
L	17+65.89	-49.39	812366.2207	1717978.7083
L	18+19.85	40.00	812442.0692	1718050.4642
L	20+18.21	-40.00	812614.4636	1717920.8652
L	20+64.09	-60.00	812660.1984	1717892.7046
L	21+16.70	-55.00	812718.2634	1717892.7687
L	22+10.37	-30.95	812813.9611	1717916.0310

EXISTING CONCRETE MONUMENT

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	13+15.00	95.00	811915.9506	1718158.8990
L	13+15.00	110.00	811912.7841	1718173.5610
L	13+30.00	110.00	811929.7880	1718177.0430
L	13+30.00	100.00	811931.6891	1718167.2254
L	14+60.00	90.00	812079.3848	1718171.8027
L	14+60.00	100.00	812079.3293	1718181.8026
L	14+75.00	95.00	812096.3923	1718176.7148
L	14+75.00	85.00	812096.2335	1718166.7161
L	14+90.00	-100.00	812106.1500	1717981.3976
L	15+50.00	59.19	812176.9302	1718135.2632
L	15+65.00	-100.00	812170.1398	1717975.5668
L	15+65.00	-83.68	812172.4889	1717991.7166

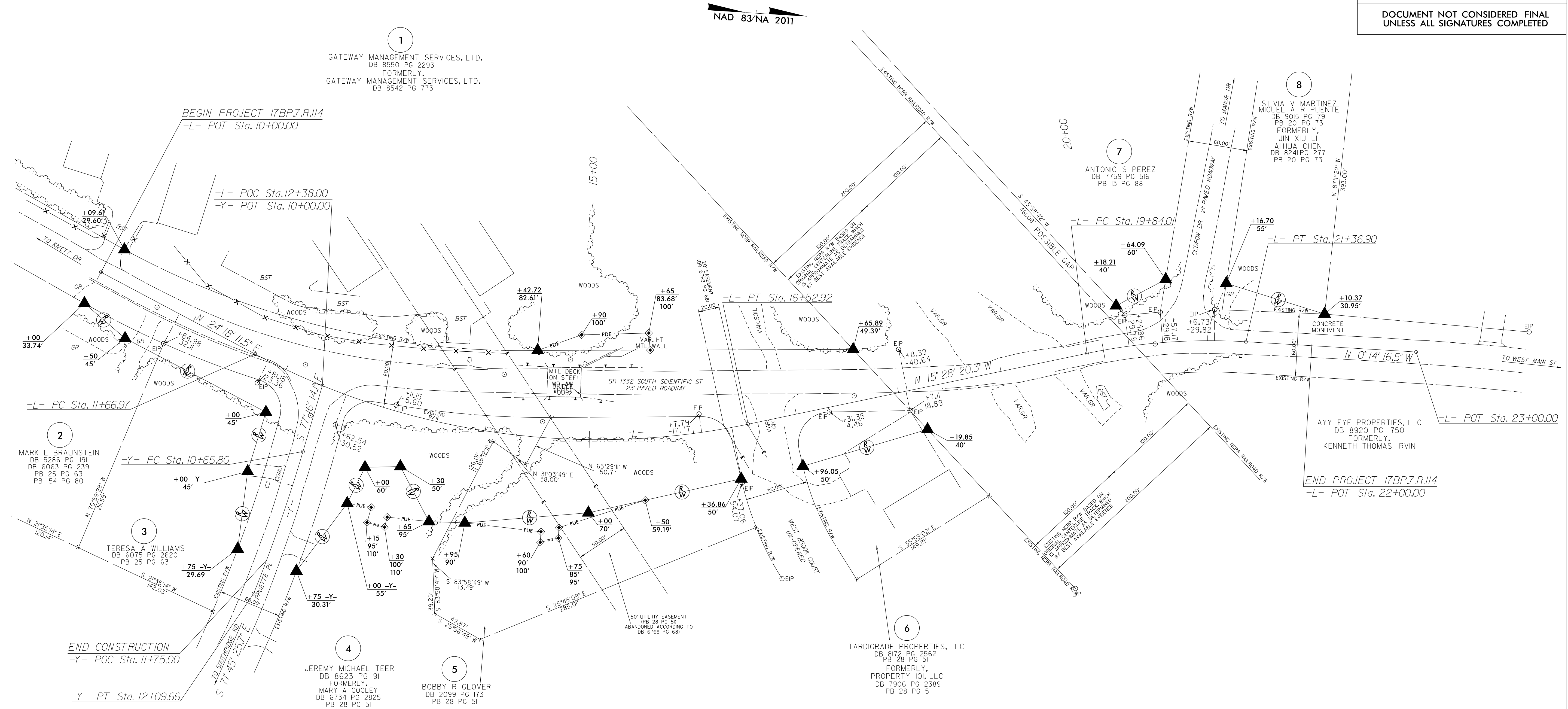
ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y	11+00.00	45.00	811795.7140	1718132.2186
Y	11+00.00	-55.00	811892.7267	1718156.4786
Y	11+75.00	29.69	811790.9562	1718206.7714
Y	11+75.00	-30.31	811848.3606	1718224.2280

MAG NAIL

NOTES:

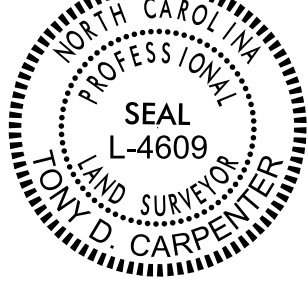
- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- RIGHT OF WAY MONUMENTATION ESTABLISHED 5/6/2026 TO 5/8/2026 .

REVISIONS



I, TONY D. CARPENTER, 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 5/6/26 to 5/8/26, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 4th day of June, 2026.
Signed by:
Tony D. Carpenter
Professional Land Surveyor L-4609

PROJECT REFERENCE NO.	SHEET NO.
17BP.7.R.114	RW04
Location and Surveys	
 ONE WEST FOURTH ST., SUITE 820 WINSTON SALEM, N.C. 27101 LICENSE NO.: F-0672 www.stantec.com	
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 05/06/2026 TO 05/08/2026.