

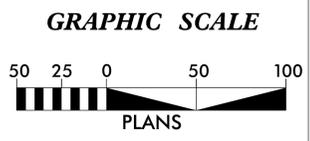
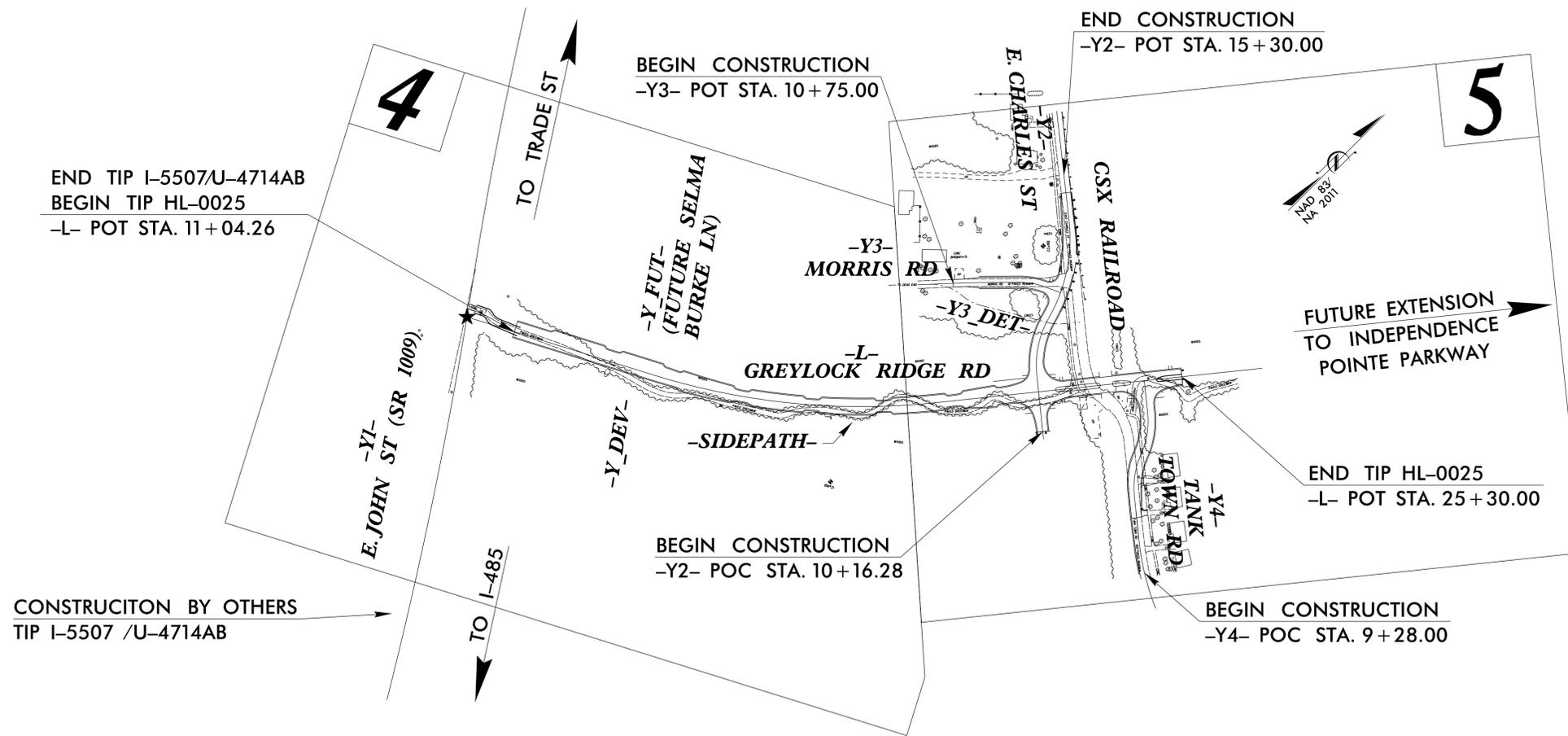
TIP PROJECT: HL-0025

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	HL-0025	RW01	08

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

MECKLENBURG COUNTY



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "I5507-14" WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 483188.982(ft) EASTING: 1457726.427(ft) ELEVATION: N/A(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9998488 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "I5507-14" TO -L- STATION 10+00.00 IS N 63-13'05.7" E 33633.713(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

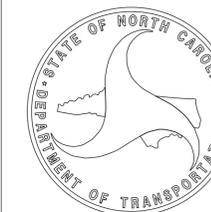
GEL SOLUTIONS
an Affiliate of THE GEL GROUP, INC.
111 CREEK RIDGE ROAD
SUITE C
GREENSBORO, NC 27406
(336) 516-9840
WWW.GEL-SOLUTIONS.COM

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
03/31/2023

LETTING DATE:
03/17/2026

PROFESSIONAL LAND SURVEYOR



SIGNATURE:

Date:

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
HL-0025	RW02C-1
Location and Surveys	
7500 EAST INDEPENDENCE BOULEVARD, SUITE 100 CHARLOTTE, NC 28227 phone: 704.537.7300 NIV5.com NC License # F-1333	

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	499172.014	1488781.319							
LINE			S 38°53'03.7" W	332.38					
PC	498933.286	1488572.669							
CURVE			S 50°31'28.7" W	606.31	23°16'50.4"(RT)	03°48'48.1"	610.50	305.52	1502.50
PT	498527.826	1488104.658							
LINE			S 62°09'53.7" W	413.52					
POT	498334.740	1487738.982							

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	499524.730	1488323.083							
LINE			S 51°35'08.1" E	311.43					
PC	499331.225	1488567.100							
CURVE			S 51°09'41.5" E	100.00	00°50'53.3"(RT)	00°50'53.3"	100.00	50.00	6755.41
PT	499268.514	1488644.989							
LINE			S 50°44'14.9" E	96.76					
PC	499207.279	1488719.903							
CURVE			S 56°03'27.7" E	48.22	10°38'25.7"(L)	22°02'12.6"	48.28	24.21	260.00
PT	499180.358	1488759.903							
CURVE			S 75°11'43.7" E	42.99	27°38'06.4"(L)	63°39'43.1"	43.41	22.14	90.00
PCC	499169.373	1488801.485							
CURVE			N 81°26'50.5" E	23.20	19°04'45.1"(L)	81°51'04.0"	23.31	11.76	70.00
PT	499172.823	1488824.409							
CURVE			N 85°28'31.0" E	28.15	27°08'06.1"(RT)	95°29'34.7"	28.42	14.48	60.00
PCC	499175.044	1488852.473							
CURVE			S 65°57'43.3" E	70.81	29°59'25.3"(RT)	41°52'12.3"	71.63	36.65	136.84
PT	499146.199	1488917.144							
LINE			S 50°58'00.7" E	206.81					
PC	499015.959	1489077.788							
CURVE			S 55°22'43.3" E	84.62	08°49'25.2"(L)	10°25'02.7"	84.70	42.43	550.00
PT	498967.883	1489147.421							

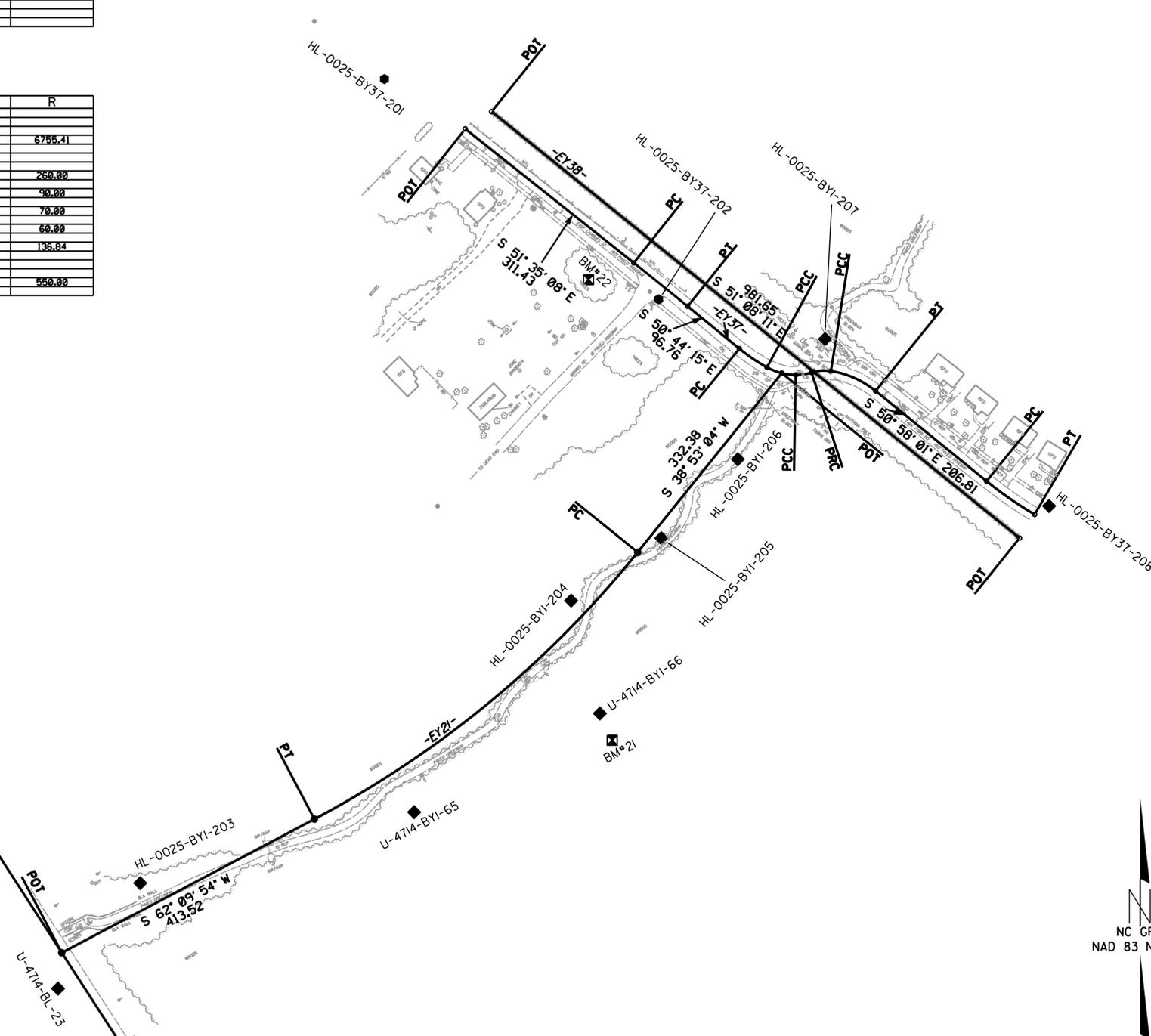
POINT	N	E	BEARING	DIST
POT	499549.744	1488361.212		
LINE			S 51°08'10.8" E	981.65
POT	498933.790	1489125.563		

.....
 BM22 ELEVATION = 730.75
 N 499307 E 1488501
 BY37 STATION 9+12.00 41 RIGHT
 RR SPIKE IN 38" DOUBLE ELM

.....
 BM21 ELEVATION = 700.86
 N 498642 E 1488536
 BY1 STATION 12+03.00 43 LEFT
 RR SPIKE IN 9" POPLAR

BY1 POINT	DESC.	NORTH	EAST	ELEVATION
207	BY1-207	499221.2550	1488843.8680	712.99
206	BY1-206	499047.5470	1488717.5530	716.10
205	BY1-205	498933.5750	1488606.8430	719.44
204	BY1-204	498843.3440	1488476.2530	712.54
66	BY1-66	498680.4030	1488517.9190	701.47
65	BY1-65	498537.8130	1488249.0550	701.32
203	BY1-203	498435.3250	1487852.4770	702.51
E023	BL-23	498283.0490	1487733.4540	686.32

BY37 POINT	DESC.	NORTH	EAST	ELEVATION
201	HL0025-BY37-201	499596.7170	1488206.0640	730.70
202	HL0025-BY37-202	499278.5720	1488602.9590	721.21
E0207	BY1-207	499221.2550	1488843.8680	712.99
208	BY37-208	498980.0470	1489168.2680	698.87



- 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

6/2/09
 30-JUNE-2021 11:44
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 cadre AT NIV5

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO. HL-0025	SHEET NO. RW02D-1
Location and Surveys	
 GEL SOLUTIONS <small>an Affiliate of THE GEL GROUP, INC.</small> 111 CREEK RIDGE ROAD SUITE C GREENSBORO, NC 27406 (336) 516-9840 WWW.GEL-SOLUTIONS.COM	
PROJECT SURVEYOR	
 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Parks H Icenhour Jr, 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 5th day of June, 2025.

Professional Land Surveyor L-3996

L

TYPE	STATION	NORTH	EAST
POT	10+00.00	498344.1091	1487752.2286
PC	14+10.52	498536.1708	1488115.0469
PT	20+08.30	498913.8536	1488573.1264
POT	27+00.00	499452.2817	1489007.3403

Y4

TYPE	STATION	NORTH	EAST
PC	8+50.00	498938.4504	1489205.6677
PT	10+00.00	499015.9587	1489077.7875
PC	10+91.28	499073.4444	1489006.8824
PRC	11+80.16	499144.5473	1488955.2451
PT	12+69.49	499215.9277	1488903.2646
POT	13+36.85	499258.2113	1488850.8327

Y1

TYPE	STATION	NORTH	EAST
PC	125+00.00	497433.8770	1488332.7571
PRC	136+59.74	498408.6443	1487705.5973
PT	141+00.58	498771.8996	1487455.9314
POT	145+00.00	499107.1758	1487238.8474

Y_DEV

TYPE	STATION	NORTH	EAST
POT	10+00.00	498406.9321	1488188.6328
POT	11+50.00	498528.9129	1488101.3363

Y2

TYPE	STATION	NORTH	EAST
POT	10+00.00	499021.6871	1488788.5546
PC	11+35.00	499106.4334	1488683.4687
PRC	12+60.07	499209.3936	1488616.0931
PT	14+72.32	499383.5679	1488501.0931
POT	17+02.17	499526.3848	1488320.9961

Y_FUT

TYPE	STATION	NORTH	EAST
POT	10+00.00	498529.1245	1488101.7361
POT	12+00.00	498694.4314	1487989.1588

Y3

TYPE	STATION	NORTH	EAST
POT	10+00.00	499062.4621	1488372.4655
PC	10+80.74	499121.9291	1488427.0742
PT	11+50.35	499172.3700	1488475.0385
PC	12+13.90	499217.6596	1488519.6308
PT	12+66.84	499248.1154	1488562.5894
POT	13+03.77	499263.8536	1488595.9963

Y3_DET

TYPE	STATION	NORTH	EAST
POT	10+00.00	499062.4621	1488372.4655
PC	10+25.00	499080.8760	1488389.3750
PRC	10+99.50	499112.8945	1488454.7479
PT	11+45.04	499126.6923	1488497.7323
PC	12+91.93	499201.9986	1488623.8508
PT	13+19.71	499220.0555	1488644.7777
POT	13+57.36	499249.2084	1488668.6072

REVISIONS

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 INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
U6105	RW03E-1
Location and Surveys	
 an Affiliate of THE GEL GROUP, INC. 111 CREEK RIDGE ROAD SUITE C GREENSBORO, NC 27406 (336) 516-9840 WWW.GEL-SOLUTIONS.COM	
PROJECT SURVEYOR	
 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	11+94.66	-66.62	498494.0668	1487893.1040
L	11+95.68	-49.70	498479.5785	1487901.9181
L	12+01.18	42.34	498400.8059	1487949.8405
L	12+45.60	-49.64	498502.8911	1487946.0687
L	12+83.96	-45.00	498516.7340	1487982.1453
L	13+97.29	42.55	498492.3762	1488123.2632
L	14+10.52	-45.00	498575.9421	1488093.9936
L	15+25.00	-38.33	498625.9887	1488193.5410
L	20+07.49	40.02	498888.0780	1488603.7550
L	20+07.55	-40.00	498938.3960	1488541.5320
L	20+85.00	40.02	498948.4326	1488652.4279
L	21+50.00	55.00	498989.6274	1488704.8904
L	21+55.00	-40.00	499053.1558	1488634.0797
L	22+70.48	55.00	499083.4122	1488780.5229
L	25+10.00	44.00	499276.7619	1488922.3180
L	25+55.00	60.00	499301.7466	1488963.0214
L	25+91.00	60.00	499329.7695	1488985.6204
L	26+50.52	36.03	499391.1449	1489004.3235

REBAR FOUND

REBAR FOUND

REBAR FOUND

NAIL IN ROOT

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y2	11+60.00	-35.00	499099.0083	1488639.8420
Y2	12+60.07	-35.00	499200.1671	1488582.3311
Y2	12+94.19	-35.00	499229.1744	1488572.7930

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y4	12+00.25	36.75	499179.9510	1488979.4663
Y4	12+01.34	41.00	499183.1311	1488982.5954
Y4	12+50.00	38.00	499229.5076	1488944.7839
Y4	12+77.00	38.00	499250.2219	1488921.2733

PERMANENT EASEMENT IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
L	11+73.76	-63.67	498481.6768	1487876.0061
L	11+74.00	-88.00	498503.2904	1487864.8399
L	12+02.94	-90.00	498518.5922	1487889.4807
L	12+74.00	-83.00	498545.6566	1487955.5599
L	12+78.00	42.42	498436.6770	1488017.7752
L	13+01.00	42.45	498447.4164	1488038.1140
L	13+19.00	140.00	498369.6210	1488099.6622
L	13+22.00	-90.00	498574.3001	1487994.7076
L	13+38.00	133.00	498384.6969	1488113.1796
L	13+89.00	-86.00	498602.1110	1488055.7941
L	14+19.00	-87.00	498616.8166	1488081.3875
L	14+67.00	42.09	498527.1261	1488185.5490
L	14+80.00	159.00	498433.2458	1488256.5908
L	14+80.00	144.00	498446.1577	1488248.9565
L	14+87.00	41.95	498537.6791	1488203.2072
L	14+98.00	142.00	498458.0258	1488264.8629
L	14+98.00	159.00	498443.4989	1488273.6930
L	15+79.00	-55.00	498668.6792	1488228.0275
L	16+26.16	41.12	498617.4584	1488321.9172
L	16+35.00	-48.00	498694.3863	1488276.0755
L	16+49.00	41.00	498631.5857	1488340.6672
L	16+60.00	104.00	498588.5251	1488388.0785
L	16+77.00	94.00	498607.5618	1488396.2451
L	17+01.00	100.00	498618.8770	1488419.9558
L	17+09.00	40.73	498670.0345	1488388.8697
L	17+23.00	100.00	498633.8528	1488438.0547
L	17+30.00	40.64	498683.9410	1488405.3703
L	17+33.00	-62.00	498764.0784	1488341.1651
L	18+34.00	-63.00	498830.0018	1488411.9200
L	20+15.00	-41.00	498944.8055	1488545.4163
L	20+65.00	-47.00	498987.4927	1488572.1333
L	21+05.00	-54.00	499023.0236	1488591.7944
L	21+32.00	-55.00	499044.6685	1488607.9653
L	21+32.00	-40.00	499035.2523	1488619.6415
L	22+03.00	55.00	499030.8834	1488738.1612
L	22+09.00	186.00	498953.3186	1488843.9000
L	22+23.00	61.00	499042.6852	1488755.3866
L	22+30.00	185.00	498970.2930	1488856.3043
L	22+49.00	61.00	499062.9240	1488771.7082
L	22+49.00	55.00	499066.6905	1488767.0377

PERMANENT EASEMENT IRON AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
Y2	12+37.00	-35.00	499174.4840	1488590.9693

PERMANENT EASEMENT IRON PIN AND CAP				
ALIGN	STATION	OFFSET	NORTH	EAST
Y3	12+01.41	30.69	499187.2294	1488532.7322

I, Parks H Icenhour 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 5/28/2025 to 6/04/2025, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 5th day of June, 2025.

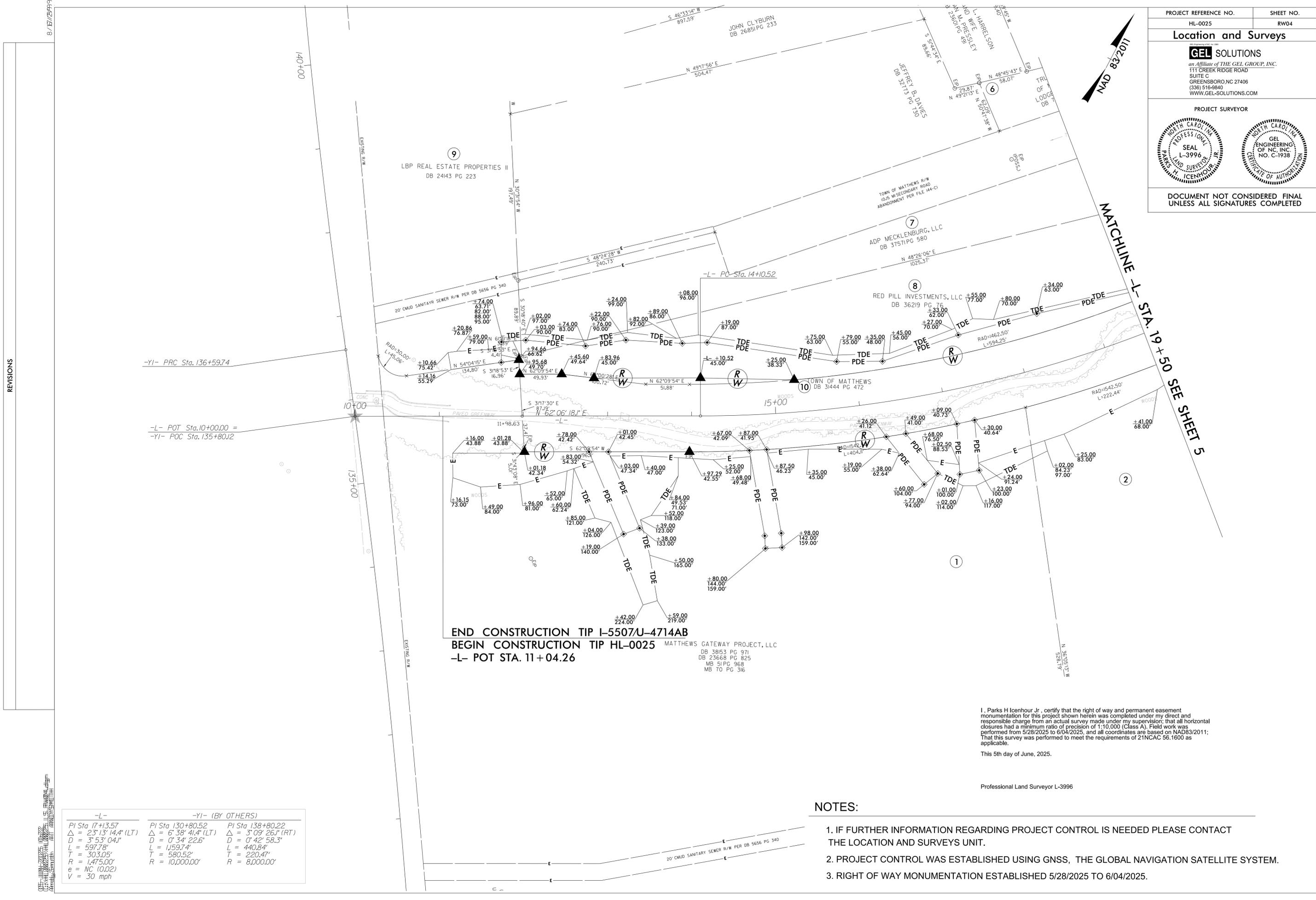
Professional Land Surveyor L-3996

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 2/22/2023 TO 3/08/2023 .

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
HL-0025	RW04
Location and Surveys	
 GEL SOLUTIONS <small>an Affiliate of THE GEL GROUP, INC.</small> 111 CREEK RIDGE ROAD SUITE C GREENSBORO, NC 27406 (336) 516-9840 WWW.GEL-SOLUTIONS.COM	
PROJECT SURVEYOR	
 PARKS H ICENHOUR, JR. SEAL L-3996 PROFESSIONAL LAND SURVEYOR NORTH CAROLINA	 GEL ENGINEERING OF NC, INC. NO. C-1938 PROFESSIONAL ENGINEER NORTH CAROLINA
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



END CONSTRUCTION TIP I-5507/J-4714AB
BEGIN CONSTRUCTION TIP HL-0025
-L- POT STA. 11 + 04.26

MATTHEWS GATEWAY PROJECT, LLC
 DB 38153 PG 971
 DB 23668 PG 825
 MB 51 PG 968
 MB 70 PG 316

I, Parks H Icenhour 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 5/28/2025 to 6/04/2025, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.
 This 5th day of June, 2025.

Professional Land Surveyor L-3996

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 5/28/2025 TO 6/04/2025.

-L-	-YI- (BY OTHERS)	
PI Sta 17+13.57	PI Sta 130+80.52	PI Sta 138+80.22
$\Delta = 23^{\circ}13'14.4"$ (LT)	$\Delta = 6^{\circ}38'41.4"$ (LT)	$\Delta = 3^{\circ}09'26.1"$ (RT)
$D = 3^{\circ}53'04.1"$	$D = 0^{\circ}34'22.6"$	$D = 0^{\circ}42'58.3"$
$L = 597.78'$	$L = 1159.74'$	$L = 440.84'$
$T = 303.05'$	$T = 580.52'$	$T = 220.47'$
$R = 1,475.00'$	$R = 10,000.00'$	$R = 8,000.00'$
$e = NC (0.02)$		
$V = 30$ mph		

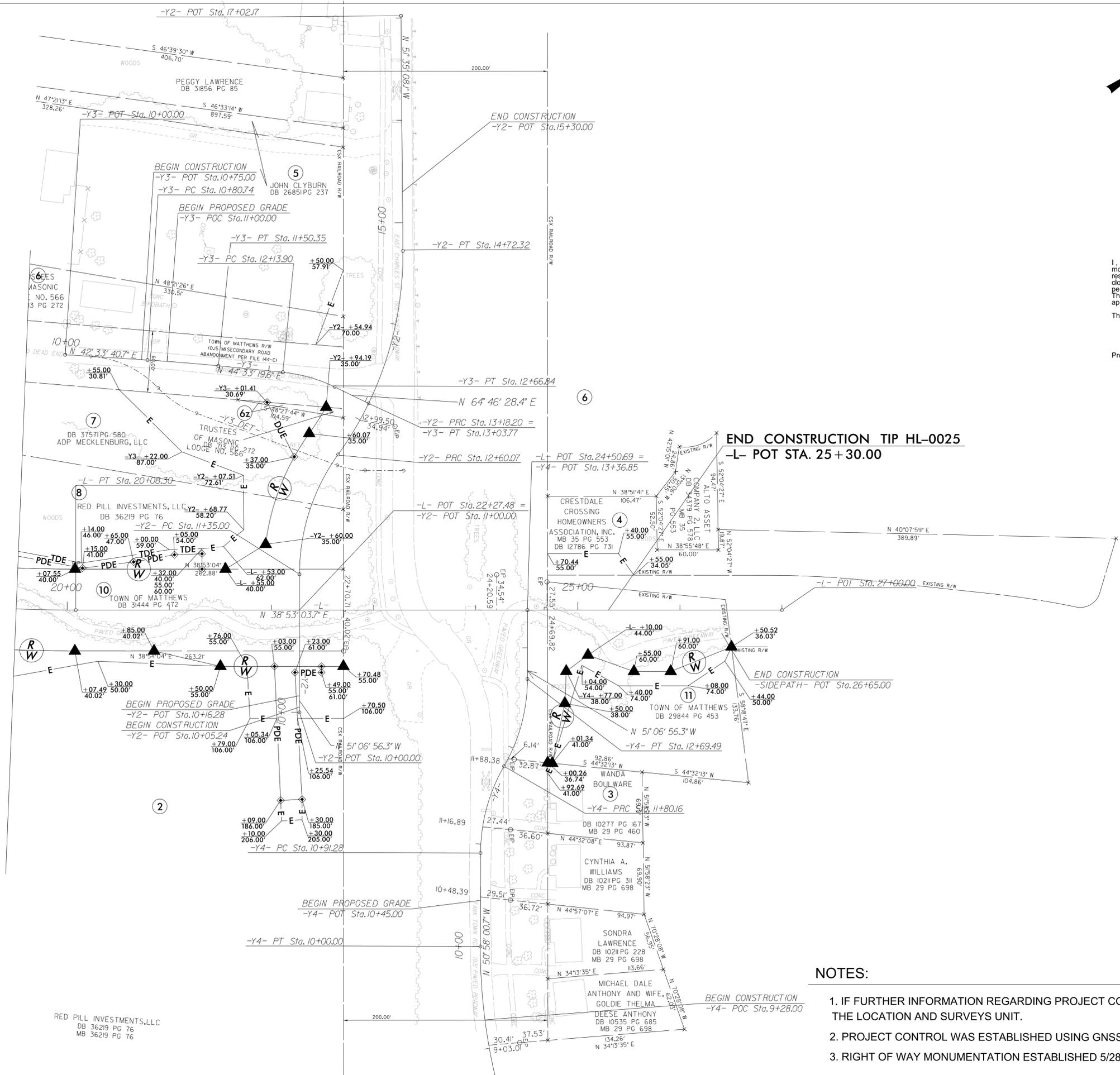
REVISIONS

8/17/2019

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 05/28/2025 10:27:22 AM
 P:\Users\parks\OneDrive\Documents\Projects\11-5507\11-5507.dwg



REVISIONS



I, Parks H Icenhour 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 5/28/25 to 6/04/2025, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 5th day of June, 2025.

Professional Land Surveyor L-3996

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 5/28/2025 TO 6/04/2025.

05-JUN-2025 10:37:15 S:\RW05.dgn
 PC:HL0025 HL 0025 S:\RW05.dgn
 Andy Smith
 Andy Smith

RED PILL INVESTMENTS, LLC
 DB 36219 PG 76
 MB 36219 PG 76