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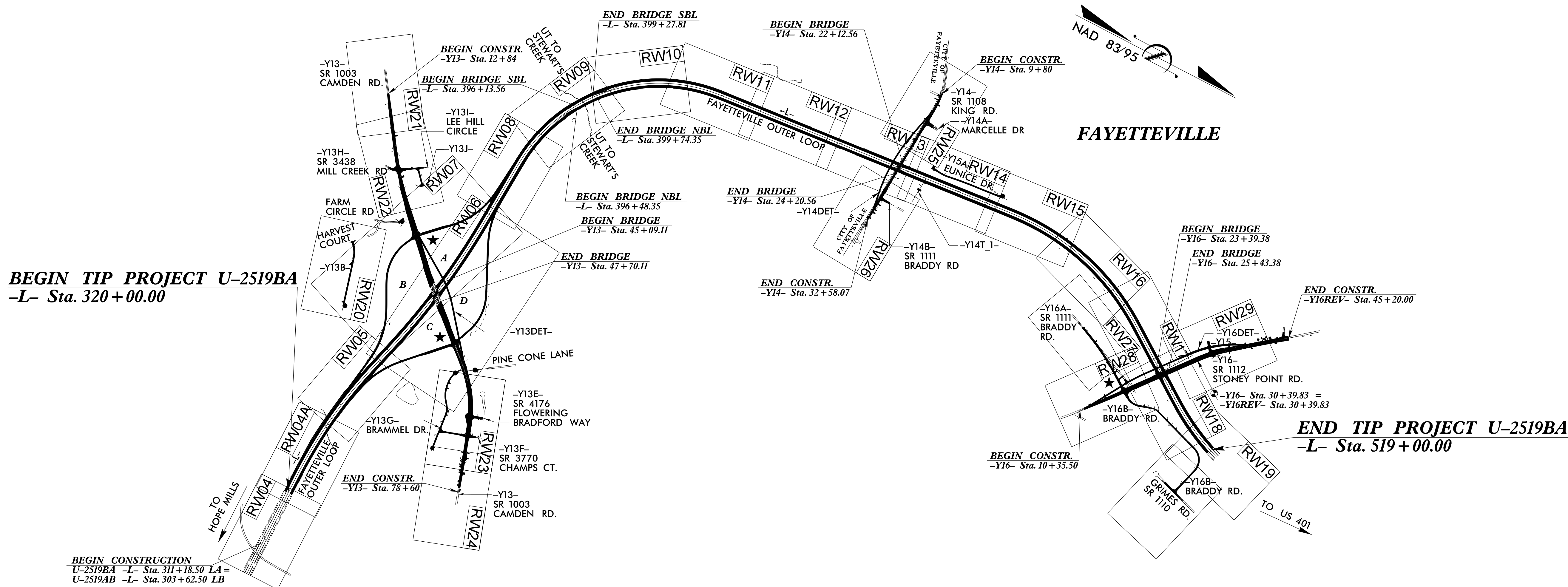
TIP PROJECT: U-2519BA

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-2519BA	RW01	41

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

CUMBERLAND COUNTY

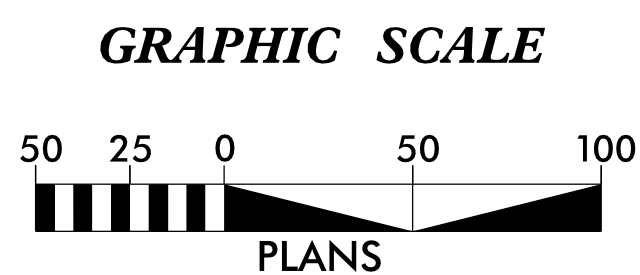
LOCATION: FAYETTEVILLE OUTER LOOP FROM SOUTH OF
 SR 1003 (CAMDEN ROAD) TO SOUTH OF SR 1104
 (STRICKLAND BRIDGE ROAD)



BEGIN TIP PROJECT U-2519BA
 -L- Sta. 320 + 00.00

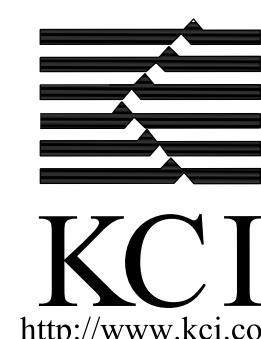
END TIP PROJECT U-2519BA
 -L- Sta. 519 + 00.00

BEGIN CONSTRUCTION
 U-2519BA -L- Sta. 311 + 18.50 LA =
 U-2519AB -L- Sta. 303 + 62.50 LB



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "BREEZE" WITH NAD 83/NSRS 1986 STATE PLANE GRID COORDINATES OF NORTHING: 455401.4875(ft) EASTING: 202426.7025(ft) ELEVATION: 218.08(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999880000 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BREEZE" TO -L- STATION 311+18.50 IS S 63°51'10" W 30124.59(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NGVD29



Prepared in the Office of:

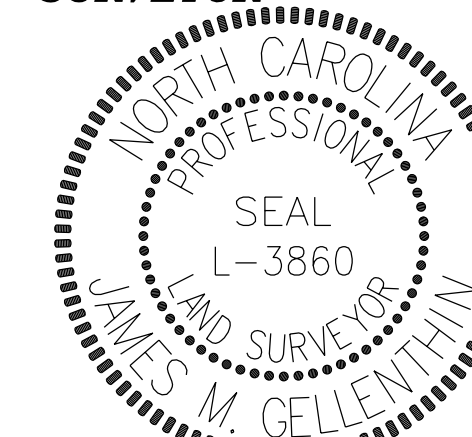
KCI Associates of N.C., P.A.
 4505 Falls of Neuse Rd, Suite 400
 Raleigh, NC 27609
 Phone (919) 783-9214

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
 09/16/2016

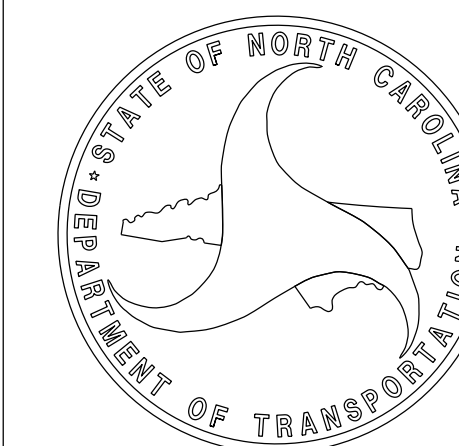
LETTING DATE:
 06/21/2022

PROFESSIONAL LAND SURVEYOR



SIGNATURE: *James M. Gellethorn*

DATE:
 03/09/2022



PROJECT REFERENCE NO.	SHEET NO.
U-2519BA	RW02C-1
Location and Surveys	
NCDOT DIVISION 6 LOCATION AND SURVEYS 4834 US HWY 301 S HOPE MILLS, NC 28348	

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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 jborris AT LSD6-312626

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U-2519BA	RW02C-2
Location and Surveys	
NCDOT DIVISION 6 LOCATION AND SURVEYS 4834 US HWY 301 S HOPE MILLS, NC 28348	



NOTES:

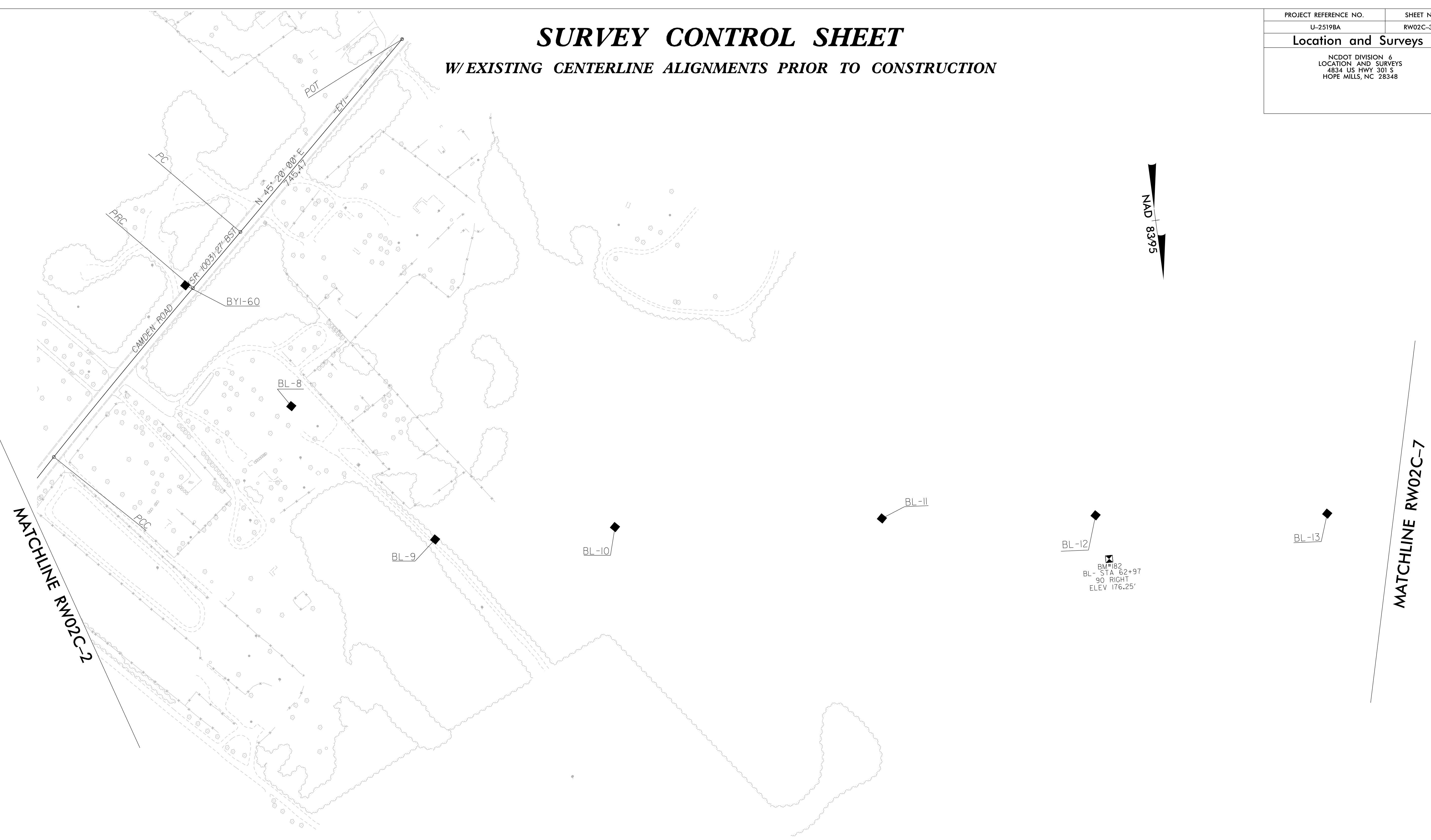
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6/2/19

PROJECT REFERENCE NO.	SHEET NO.
U-2519BA	RW02C-3
Location and Surveys	
NCDOT DIVISION 6 LOCATION AND SURVEYS 4634 US HWY 301 S HOPE MILLS, NC 28348	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



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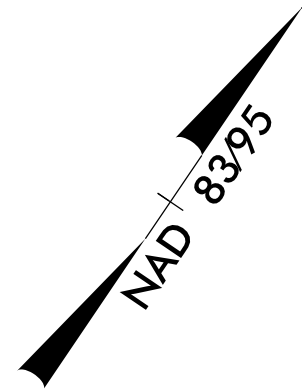
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PROJECT REFERENCE NO.	SHEET NO.
U-2519BA	RW02C-4
Location and Surveys	
NCDOT DIVISION 6 LOCATION AND SURVEYS 4634 US HWY 301 S HOPE MILLS, NC 28348	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



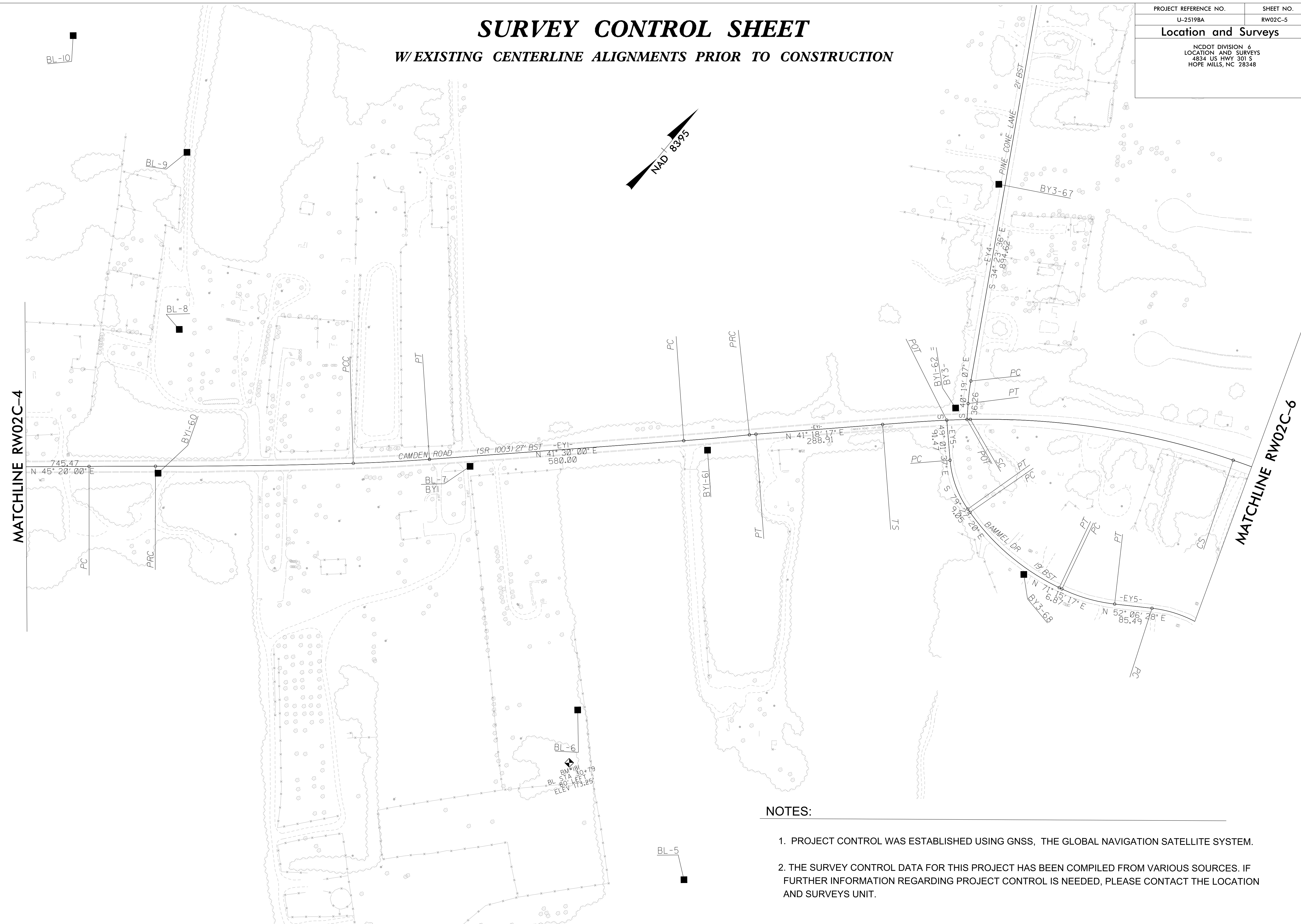
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SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U-2519BA	RW02C-5
Location and Surveys	
NCDOT DIVISION 6 LOCATION AND SURVEYS 4834 US HWY 301 S HOPE MILLS, NC 28348	



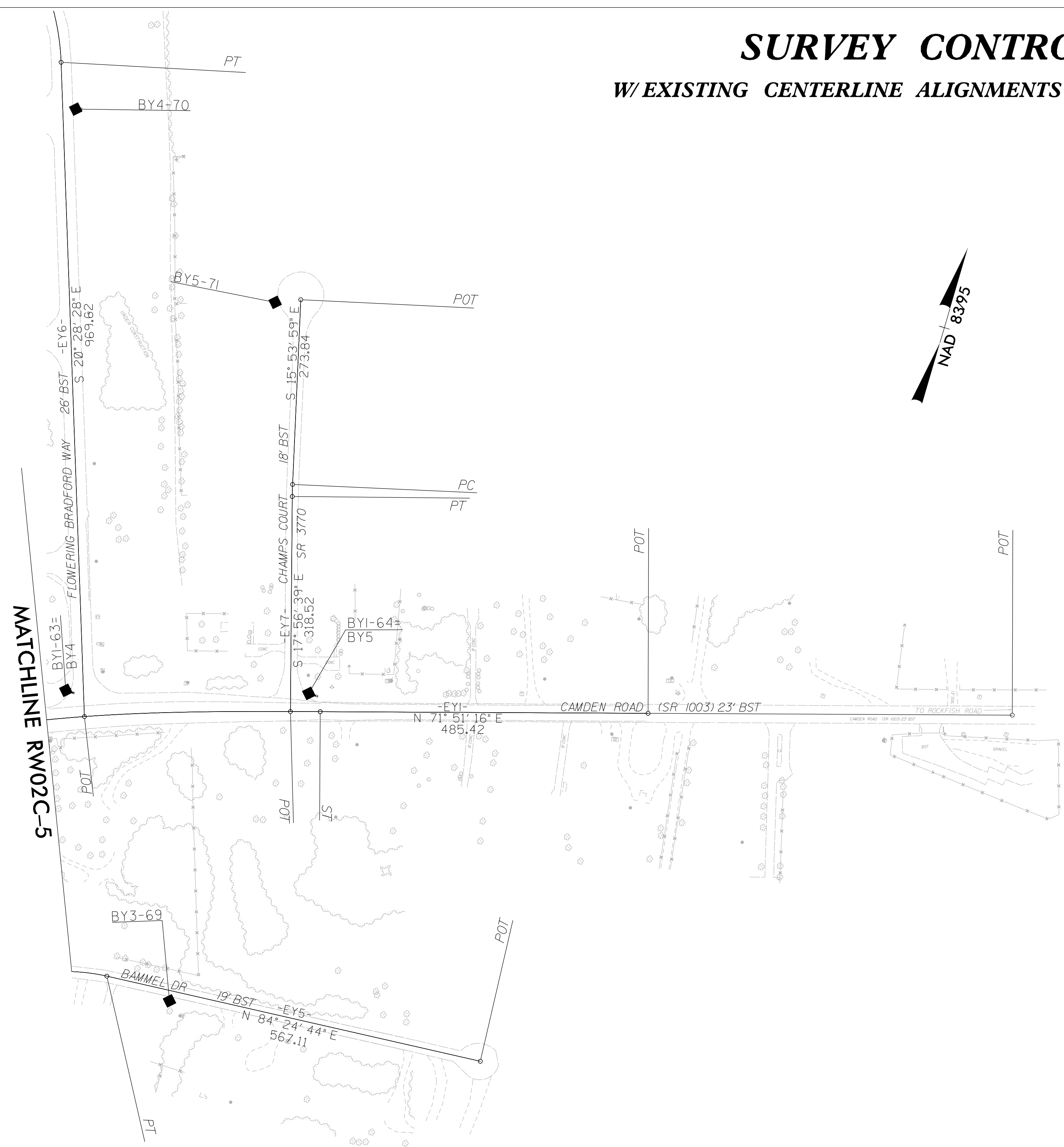
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PROJECT REFERENCE NO.	SHEET NO.
U-2519BA	RW02C-6
Location and Surveys	
<small>NCDOT DIVISION 6 LOCATION AND SURVEYS 4834 US HWY 301 S HOPE MILLS, NC 28348</small>	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



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PROJECT REFERENCE NO.	SHEET NO.
U-2519BA	RW02C-7
Location and Surveys	
NCDOT DIVISION 6 LOCATION AND SURVEYS 4834 US HWY 301 S HOPE MILLS, NC 28348	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



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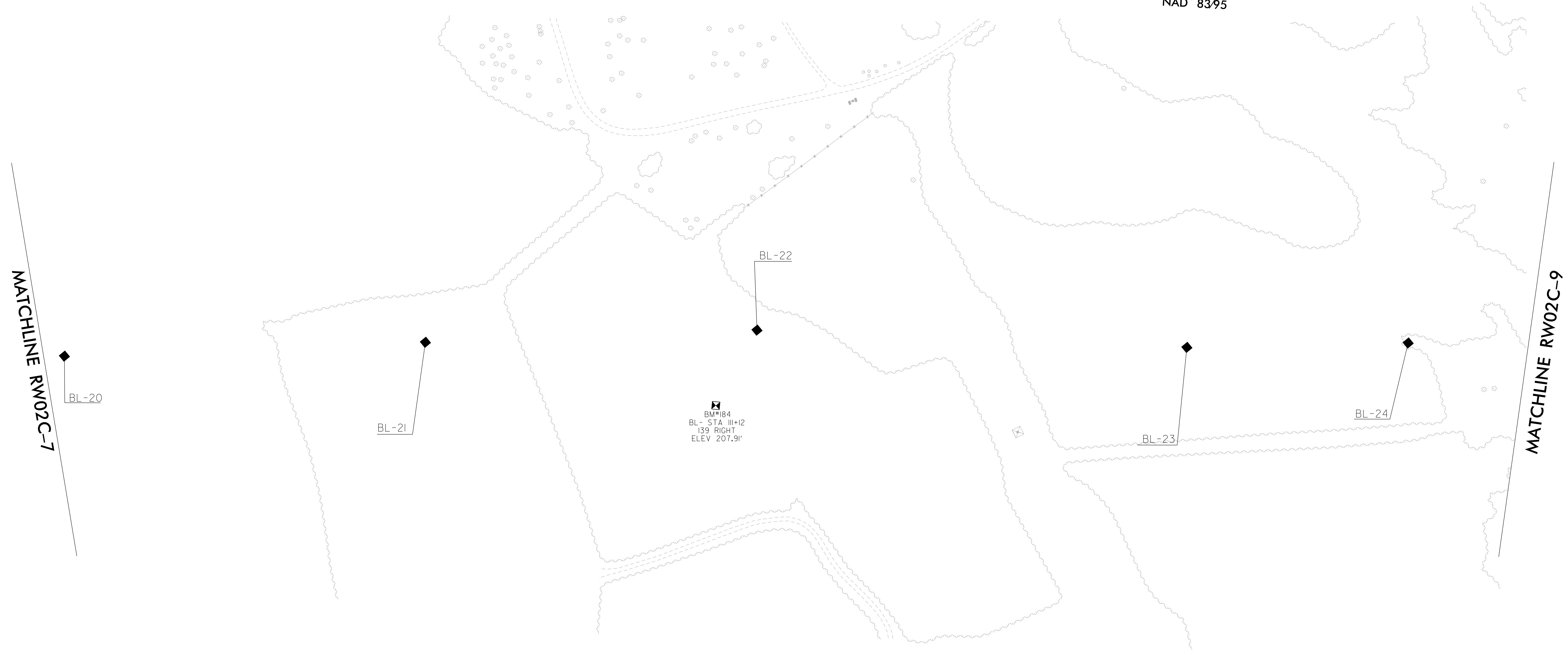
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PROJECT REFERENCE NO.	SHEET NO.
U-2519BA	RW02C-8
Location and Surveys	
NCDOT DIVISION 6 LOCATION AND SURVEYS 4834 US HWY 301 S HOPE MILLS, NC 28348	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



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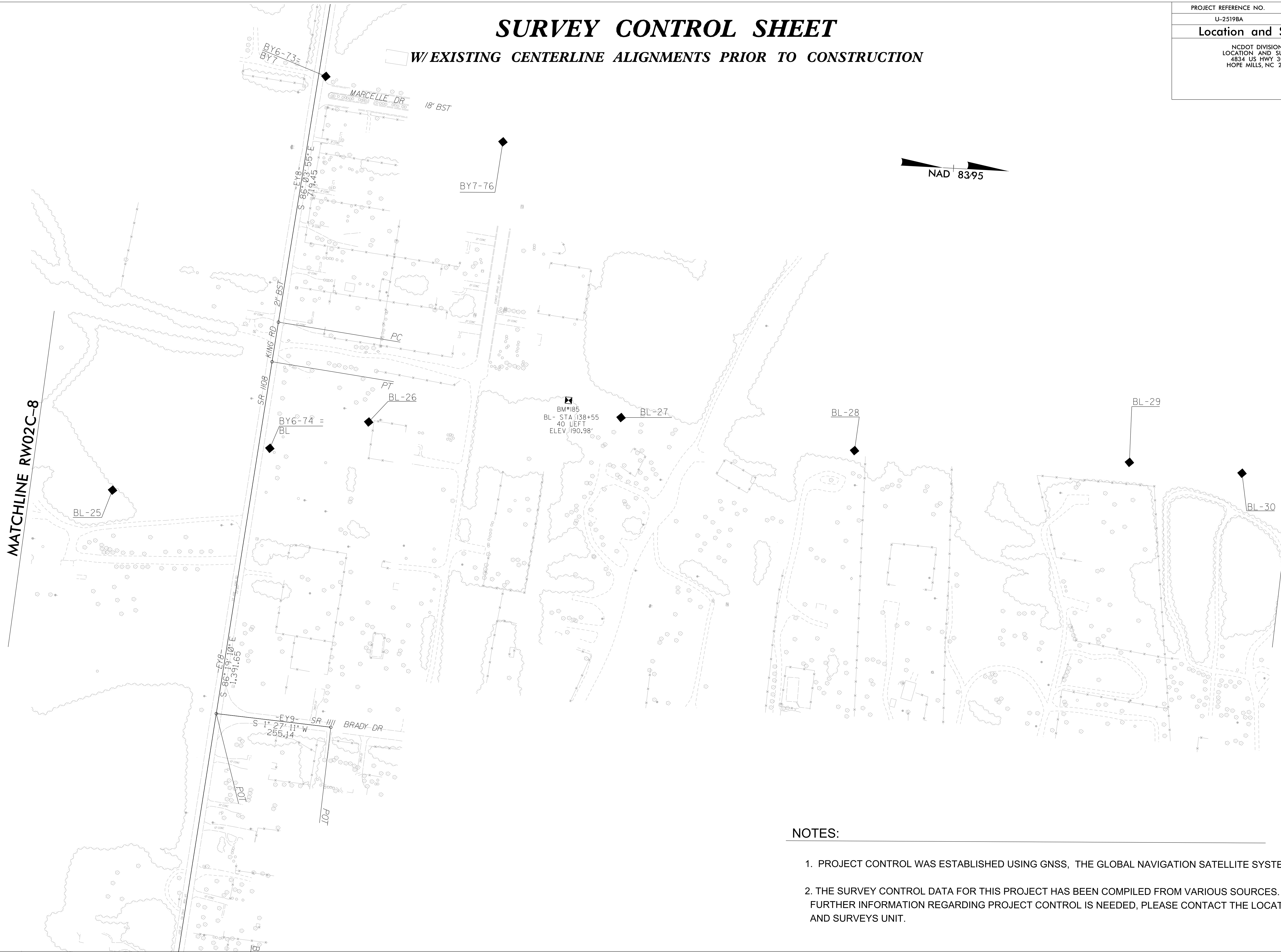
SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U-2519BA	RW02C-9
Location and Surveys	
NCDOT DIVISION 6 LOCATION AND SURVEYS 4834 US HWY 301 S HOPE MILLS, NC 28348	

MATCHLINE RW02C-8

MATCHLINE RW02C-10



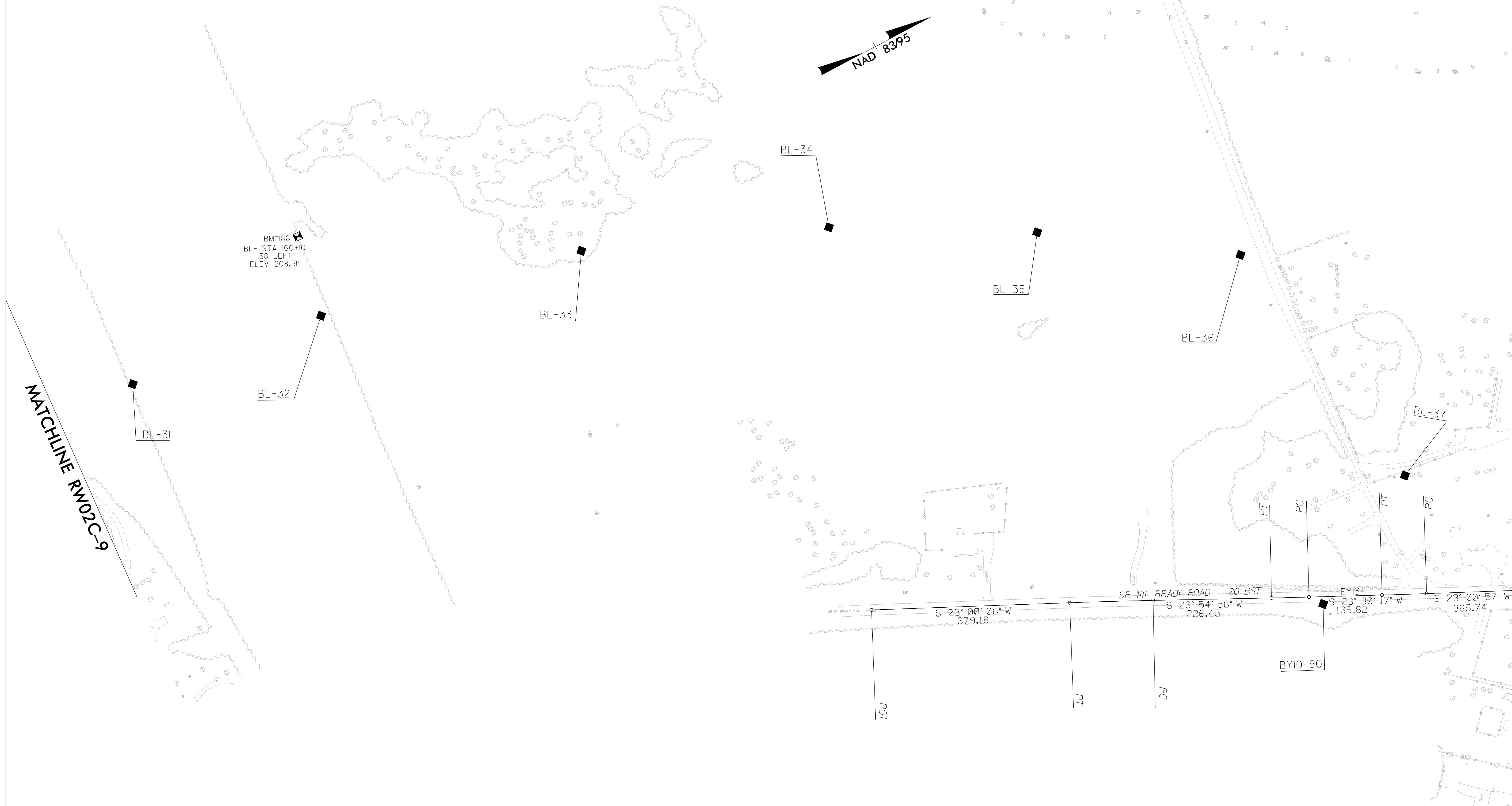
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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U-2519BA	RW02C-10
Location and Surveys	
NCDOT DIVISION 6 LOCATION AND SURVEYS 4834 US HWY 301 S HOPE MILLS, NC 28348	



MATCHLINE RW02C-9

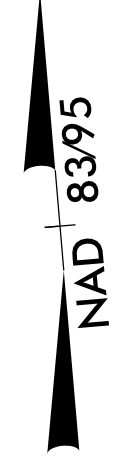
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PROJECT REFERENCE NO.	SHEET NO.
U-2519BA	RW02C-11
Location and Surveys	
<small>NCDOT DIVISION 6 LOCATION AND SURVEYS 4834 US HWY 301 S HOPE MILLS, NC 28348</small>	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U-2519BA	RW02C-12
Location and Surveys	
NCDOT DIVISION 6 LOCATION AND SURVEYS 4834 US HWY 301 S HOPE MILLS, NC 28348	

6/2/09

REVISIONS

BL POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
1	U-2519B BL-1	442143.8440	1995982.6090	175.15	12+35.59	0.35 RT
2	U-2519B BL-2	442181.3130	1995384.4980	156.55	18+35.03	0.33 LT
3	U-2519B BL-3	442284.7040	1994696.6810	172.35	25+30.81	0.19 RT
4	U-2519B BL-4	442367.2440	1994276.9340	173.69	29+63.11	7.66 RT
5	U-2519B BL-5	442509.3390	1993804.4390	154.01	34+51.21	2.05 RT
6	U-2519B BL-6	442616.8800	1993361.6320	171.26	39+06.91	4.07 LT
7	U-2519B BL-7	442842.4630	1992799.3360	178.99	45+01.13	101.12 RT
8	U-2519B BL-8	442803.3330	1992108.4410	177.81	51+51.63	248.49 LT
9	U-2519B BL-9	442983.8550	1991839.5920	164.94	54+54.97	28.38 RT
10	U-2519B BL-10	442913.0130	1991468.9680	156.39	58+24.54	7.23 RT
11	U-2519B BL-11	442946.4980	1990920.7380	147.95	63+73.69	10.62 RT
12	U-2519B BL-12	442981.0910	1990482.6890	169.31	68+12.95	22.22 RT
13	U-2519B BL-13	443022.0900	1990008.0930	179.70	72+91.63	24.22 RT
14	U-2519B BL-14	443132.1960	1989505.6630	173.40	78+10.02	8.92 RT
15	U-2519B BL-15	443262.0400	1989230.9720	161.02	81+15.55	19.40 RT
16	U-2519B BL-16	443479.1720	1988833.5900	135.42	85+69.46	6.12 LT
17	U-2519B BL-17	443805.7870	1988494.8510	172.78	90+40.63	7.73 RT
18	U-2519B BL-18	444133.7790	1988253.4050	166.00	94+50.29	18.11 RT
19	U-2519B BL-19	444538.6960	1988016.4460	156.22	99+21.20	1.86 LT
20	U-2519B BL-20	445047.0250	1987881.0950	183.84	104+49.23	14.38 RT
21	U-2519B BL-21	445720.4580	1987790.3090	184.31	111+29.96	1.76 RT
22	U-2519B BL-22	446339.1420	1987708.0230	205.03	117+53.64	22.16 LT
23	U-2519B BL-23	447147.1700	1987663.1680	184.21	125+62.31	8.92 RT
24	U-2519B BL-24	447560.7770	1987615.1220	173.58	129+78.60	0.14 LT
25	U-2519B BL-25	447966.4130	1987632.7620	195.98	133+80.80	55.45 RT
26	U-2519B BL-26	448516.4530	1987430.0990	196.02	139+47.41	94.76 LT
27	U-2519B BL-27	449071.2790	1987368.4670	193.84	145+05.57	104.11 LT
28	U-2519B BL-28	449592.2910	1987393.3060	190.45	150+21.96	30.54 LT
29	U-2519B BL-29	450200.0280	1987362.7330	201.29	156+29.85	4.51 LT
30	U-2519B BL-30	450450.2800	1987363.5560	203.86	158+79.88	11.08 RT
31	U-2519B BL-31	450718.0560	1987369.4150	199.03	161+48.66	15.07 RT
32	U-2519B BL-32	451099.5160	1987403.7670	205.76	165+33.29	14.05 RT
33	U-2519B BL-33	451602.8640	1987502.4130	203.50	170+47.85	5.48 RT
34	U-2519B BL-34	452050.8000	1987662.3640	197.01	175+24.57	6.91 RT
35	U-2519B BL-35	452407.3910	1987839.8140	199.83	179+23.91	9.75 RT
36	U-2519B BL-36	452740.9470	1988043.8260	209.11	183+15.80	6.85 RT

BY1 POINT	DESC.	NORTH	EAST	ELEVATION	EY1 STATION	OFFSET
56	U-2519B BY1-56	440473.4069	1990030.6290	152.68	11+52.58	15.82 RT
57	U-2519B BY1-57	440818.3402	1990528.2263	174.42	17+58.04	16.66 RT
58	U-2519B BY1-58	441270.3477	1991165.1136	182.22	25+38.36	16.76 RT
59	U-2519B BY1-59	441820.2509	1991788.0804	177.61	33+67.64	21.35 RT
60	U-2519B BY1-60	442335.5250	1992302.3108	177.75	40+95.70	15.77 RT
170		442842.4630	1992799.3360	178.99	48+04.37	22.56 RT
61	U-2519B BY1-61	443246.0199	1993160.2040	174.69	53+45.44	25.74 RT
62	U-2519B BY1-62	443708.7869	1993497.1325	172.67	59+14.66	26.78 LT
63	U-2519B BY1-63	444133.9013	1994085.5362	177.01	66+31.84	40.89 LT
64	U-2519B BY1-64	444243.3363	1994428.2321	177.63	69+88.25	26.97 LT

BY2 POINT	DESC.	NORTH	EAST	ELEVATION	EY2 STATION	OFFSET
159		441820.2509	1991788.0804	-1.16	10+32.00	47.99 RT
65	U-2519B BY2-65	441467.7900	1992215.0040	179.07	15+13.27	170.49 LT
66	U-2519B BY2-66	441020.6410	1992705.5910	176.06	OUTSIDE PROJECT LIMITS	

BY3 POINT	DESC.	NORTH	EAST	ELEVATION	EY4 STATION	OFFSET
67	U-2519B BY3-67	444141.6185	1993211.8785	176.27	15+83.72	14.48 RT
162		443708.7869	1993497.1325	-6.42	20+99.32	27.66 RT

BY3 POINT	DESC.	NORTH	EAST	ELEVATION	EY5 STATION	OFFSET
68	U-2519B BY3-68	443546.2519	1993872.5344	173.52	14+04.70	14.48 RT
69	U-2519B BY3-69	443746.1333	1994376.5920	174.92	19+59.64	15.10 RT

BY4 POINT	DESC.	NORTH	EAST	ELEVATION	EY4 STATION	OFFSET
70	U-2519B BY4-70	444955.1609	1993827.2394	177.05	12+60.00	952.85 LT
163		444133.9013	1994085.5362	-2.01	OUTSIDE PROJECT LIMITS	

BY5 POINT	DESC.	NORTH	EAST	ELEVATION	EY5 STATION	OFFSET
71	U-2519B BY5-71	444777.0241	1994197.8662	178.57	18+82.14	1028.29 LT
164		444243.3363	1994428.2321	-1.29	20+59.45	474.71 LT

BY6 POINT	DESC.	NORTH	EAST	ELEVATION	EY8 STATION	OFFSET
72	U-2519B BY6-72	448361.8023	1986230.4944	172.67	10+03.23	15.45 LT
73	U-2519B BY6-73	448351.2230	1986677.8330	191.31	14+49.14	16.02 LT
74	U-2519B BY6-74	448304.2038	1987508.3025	197.18	22+81.00	25.06 LT
75	U-2519B BY6-75	448219.2630	1988693.3159	202.16	34+69.02	16.37 LT

BY7 POINT	DESC.	NORTH	EAST	ELEVATION	EY7 STATION	OFFSET
76	U-2519B BY7-76	448754.6010	1986785.6370	191.37	OUTSIDE PROJECT LIMITS	
173		448351.2226	1986677.8332	190.96	OUTSIDE PROJECT LIMITS	

BY8 POINT	DESC.	NORTH	EAST	ELEVATION	EY10 STATION	OFFSET
77	U-2519B BY8-77	456269.0730	1986007.1190	214.66	12+82.58	16.01 RT
78	U-2519B BY8-78	455890.4550	1986309.3840	213.61	17+66.88	15.02 RT
79	U-2519B BY8-79	455535.7080	1986591.0387	210.47	22+19.85	15.54 RT
80	U-2519B BY8-80	454889.1092	1987091.8140	213.96	30+37.53	27.86 RT
81	U-2519B BY8-81	454301.7561	1987573.0711	216.33	37+96.90	17.55 RT
82	U-2519B BY8-82	453820.4870	1988031.9231	218.56	44+60.36	18.38 RT
138		453464.4280	1988530.7290	UNKNOWN	50+72.18	17.16 LT
83	U-2519B BY8-83	453133.7535	1988950.8784	216.82	56+06.82	23.14 LT
84	U-2519B BY8-84	452559.8096	1989653.9479	216.05	65+14.24	19.77 LT

BY9 POINT	DESC.	NORTH	EAST	ELEVATION	EY11 STATION	OFFSET
1180		454889.1092	1987091.8140	213.82	10+38.74	33.76 RT
85	U-2519B BY9-85	454561.9931	1986370.9152	208.92	18+29.88	13.67 RT
86	U-2519B BY9-86	454321.9281	1985793.7182	207.85	24+55.72	13.11 RT
87	U-2519B BY9-87	454077.3172	1985066.1310	216.14	32+23.85	13.27 RT
88	U-2519B BY9-88	453893.8334	1984593.9066	204.56	37+27.47	17.25 RT
89	U-2519B BY9-89	453295.2559	1984143.1959	168.89	OUTSIDE PROJECT LIMITS	

..... 180 ELEVATION = 174.74 N 442370 E 1995997 L STATION 325+13.00 249 RIGHT 184 ELEVATION = 207.91 N 446276 E 1987857 L STATION 429+90.00 126 RIGHT
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..... 181 ELEVATION = 173.25 N 442517 E 1993432 L STATION 351+06.00 62 LEFT 185 ELEVATION = 190.98 N 448952 E 1987342 L STATION 457+03.00 136 LEFT
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..... 182 ELEVATION = 176.25 N 443073 E 1990463 L STATION 381+24.00 136 RIGHT 186 ELEVATION = 208.51 N 451124 E 1987248 L STATION 478+50.00 139 LEFT
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..... 183 ELEVATION = 176.75 N 443903 E 1988632 L STATION 403+24.00 193 RIGHT
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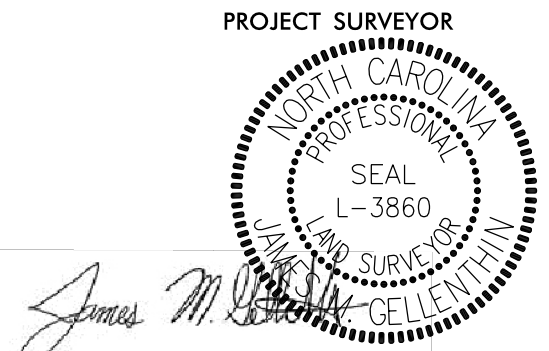
6/2/09

REVISIONS

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
u2519ba	rw02d-1
Location and Surveys	
 KCI Associates of N.C., P.A. 4505 Falls of Neuse Rd, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 http://www.kci.com	

PROJECT SURVEYOR

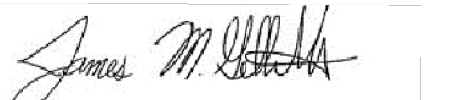


James M. Gellenethin

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

I, James M. Gellenethin, 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 9th day of March, 2022.



Professional Land Surveyor L-3860

L	POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	DELTA S	Ls	LT	ST
POT		442131.888	1998277.514											
LINE		442119.203	1996289.742	S 89°38'03.7" W	1987.81									
TS				S 89°49'18.7" W	150.00									
SPIRAL		442118.736	1996139.744	N 82°33'18.9" W	1927.77	14°29'45.0"(RT)	00°44'59.8"	1932.92	971.65	7640.00	00°33'44.9"(RT)	150.00	100.00	50.00
SC														
CURVE		442368.517	1994228.227	N 74°55'56.6" W	150.00									
CS		442407.511	1994083.384	N 74°44'41.6" W	292.57									
SPIRAL		442484.491	1993801.122	N 74°52'11.6" W	150.00									
ST														
LINE		442523.643	1993656.322	N 80°51'49.5" W	2293.88	11°29'16.0"(LT)	00°29'59.9"	2297.72	1152.73	11460.00	00°22'29.9"(LT)	150.00	100.00	50.00
SPIRAL														
SC		442887.871	1991391.545	N 86°51'27.4" W	150.00									
CS		442896.094	1991241.771	N 86°58'57.4" W	860.79									
SPIRAL		442941.405	1990382.179	N 85°51'33.1" W	299.95									
ST														
LINE		442963.064	1990883.008	N 46°10'52.3" W	3099.81	74°51'43.7"(RT)	02°14'48.8"	3331.81	1951.81	2550.00	03°22'13.2"(RT)	300.00	200.04	100.03
SPIRAL														
SC		445109.312	1987846.390	N 06°30'11.6" W	299.95									
CS		445407.336	1987812.418	N 05°22'47.3" W	4660.06									
SPIRAL		450046.867	1987375.503	N 04°37'46.8" W	299.98									
ST														
LINE		450345.867	1987351.290	N 14°36'46.8" E	2327.59	35°29'05.2"(RT)	01°30'01.0"	2365.21	1221.91	3819.00	02°15'01.5"(RT)	300.00	200.02	100.01
SPIRAL														
SC		452598.161	1987938.515	N 33°51'20.5" E	299.98									
CS		452847.277	1988105.635	N 34°36'21.0" E	1070.24									
SPIRAL		453728.172	1988713.455	N 33°51'21.2" E	299.98									
ST														
LINE		453977.287	1988880.575	N 14°50'46.0" E	2298.65	35°01'11.1"(LT)	01°29'59.6"	2334.82	1205.17	3820.00	02°14'59.4"(LT)	300.00	200.02	100.01
SPIRAL														
SC		456199.201	1989469.543	N 04°09'49.2" W	299.98									
CS		456498.388	1989447.763	N 04°54'49.0" W	5739.64									
SPIRAL														
ST														
LINE		462216.935	1988956.143											
POT														

Y13

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	DELTA S	Ls	LT	ST	
POT		440399.295	1989896.318	N 55°11'26.1" E	1234.10									
LINE		441103.779	1990909.582	N 54°54'14.8" E	150.00									
TS														
SPIRAL		441190.020	1991032.309	N 50°15'43.0" E	709.61	08°08'18.2"(LT)	01°08'45.3"	710.21	355.70	5000.00	00°51'34.0"(LT)	150.00	100.00	50.00
SC														
CURVE		441643.659	1991577.982	N 45°37'11.3" E	150.00									
CS		441748.570	1991685.188	N 45°20'00.0" E	916.42									
SPIRAL		442392.798	1992336.956	N 43°19'08.5" E	780.31	04°01'43.0"(LT)	00°30'58.2"	780.47	390.40	11100.00	04°44'53.8"(RT)	300.00	200.07	100.07
ST														
LINE		442960.507	1992872.294	N 41°18'17.0" E	748.32									
SC		443522.655	1993366.235	N 42°53'14.6" E	299.91									
SPIRAL		443742.396	1993570.341	N 56°58'30.9" E	685.91	21°50'40.2"(RT)	03°09'55.8"	690.08	349.28	1810.00	03°57'24.8"(RT)	250.00	166.71	83.37
CS		444116.215	1994145.429	N 70°32'07.7" E	249.95									
SPIRAL		444199.503	1994381.091	N 71°51'15.8" E	960.24									
ST														
LINE		444498.554	1995293.578											
POT														

Y13B

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	
POT		441185.536	1992525.239	N 46°19'45.7" E	33.09					
LINE		441208.385	1992549.174	N 60°34'55.6" E	265.90	28°30'19.8"(RT)	10°36'37.2"	268.66	137.17	540.00
PC										
CURVE		441338.987	1992780.786	N 74°50'05.5" E	818.26					
PT										
LINE		441553.044	1993570.547							
POT										

Y13B_C

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	
PC		441500.227	1993413.904	S 60°09'54.5" E	28.28	90°00'00.0"(RT)	286°28'44.0"	31.42	20.00	20.00
CURVE										
PT		441486.156	1993438.440							

Y13B_D

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R	
PC		441515.923	1993471.815	S 29°50'05.5" W	28.28	90°00'00.0"(LT)	286°28'44.0"	31.42	20.00	20.00
CURVE										
PT		441491.388	1993457.743							

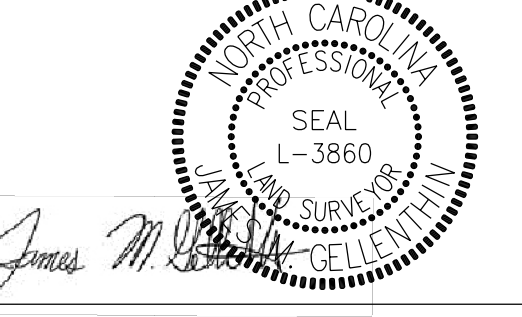
NOTES:

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.

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PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO. u2519ba SHEET NO. rw02d-2
Location and Surveys
KCI Associates of N.C., P.A.
4505 Falls of Neuse Rd, Suite 400
Raleigh, NC 27609
Phone (919) 783-9214
<http://www.kci.com>

PROJECT SURVEYOR

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, James M. Gellenath, 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 9th day of March, 2022.


Professional Land Surveyor L-3860

Y13B_T
POINT N E BEARING DIST
POT 441517.727 1993440.244
LINE 441479.120 1993450.708 S 15°09'54.5" E 40.00

Y13CUL_3
POINT N E BEARING DIST
POT 444053.613 1993289.668
LINE 443702.424 1993530.073 S 34°23'36.2" E 425.59

Y13E
POINT N E BEARING DIST
POT 444107.236 1994123.724
LINE 444314.135 1994406.472 N 20°28'28.4" W 220.85

Y13F
POINT N E BEARING DIST
POT 444209.300 1994410.983
LINE 444429.725 1994339.765 N 17°54'18.9" W 231.64

Y13I
POINT N E BEARING DIST
POT 441319.064 1991204.178
LINE 441789.426 1990900.271 N 32°52'01.2" W 560.00

Y13J
POINT N E BEARING DIST
POT 441576.277 1991037.989
LINE 441766.031 1991250.473 N 48°14'02.9" E 284.88

Y13RPA
POINT N E BEARING DIST DELTA D L T R DELTA S Ls LT ST
POT 442882.487 1990379.073
LINE 442853.677 1990677.326 S 84°28'57.4" E 299.64
TS SPIRAL 442812.449 1990974.270 S 82°05'44.2" E 299.79 07°09'43.1"(RT) 300.00 200.16 100.15
SC CURVE 442585.112 1991452.494 S 64°34'28.7" E 529.51 25°29'31.2"(RT) 04°46'28.7" 533.90 271.44 1200.00
CS SPIRAL 442380.860 1991671.940 S 47°03'13.2" E 299.79 07°09'43.1"(RT) 300.00 200.16 100.15
ST LINE 442054.413 1991994.610 S 44°40'00.0" E 459.00

Y13RPB
POINT N E BEARING DIST DELTA D L T R DELTA S Ls LT ST
POT 442148.574 1994999.492
LINE 442273.904 1994181.846 N 81°17'07.5" W 827.20
POT 442273.905 1994181.845 N 81°17'08.5" W 0.00
TS SPIRAL 442307.903 1993883.957 N 83°29'19.9" W 299.82 06°36'39.8"(LT) 300.00 200.14 100.13
SC CURVE 442223.708 1993373.693 S 80°37'49.3" W 517.16 22°56'46.8"(LT) 04°24'26.5" 520.64 263.85 1300.00
CS SPIRAL 442095.811 1993102.518 S 64°44'58.5" W 299.82 06°36'39.8"(LT) 300.00 200.14 100.13
ST LINE 442010.262 1992937.856 S 62°32'46.1" W 185.56
TS SPIRAL 441925.989 1992756.648 S 65°03'31.5" W 199.85 07°32'20.1"(RT) 200.00 133.45 66.78
SC CURVE 441984.583 1992113.950 N 84°47'26.9" W 645.36 50°14'53.8"(RT) 07°32'20.1" 666.52 356.40 760.00
PT LINE 442054.413 1991994.610 N 59°40'00.0" W 138.27

Y13RPC
POINT N E BEARING DIST DELTA D L T R DELTA S Ls LT ST
POT 442306.802 1994772.824
LINE 442327.732 1994682.808 N 76°54'37.9" W 92.42
TS SPIRAL 442405.808 1994393.298 N 74°54'26.5" W 299.85 06°00'36.2"(RT) 300.00 200.12 100.10
SC CURVE 442627.086 1993984.856 N 61°33'10.5" W 464.53 18°41'42.6"(RT) 04°00'24.1" 466.60 235.39 1430.00
CS SPIRAL 442826.954 1993761.328 N 48°11'54.4" W 299.85 06°00'36.2"(RT) 300.00 200.12 100.10
ST LINE 443350.761 1993215.197 N 46°11'43.0" W 756.72

Y13CUL_1
POINT N E BEARING DIST DELTA D L T R
PC 441343.553 1992069.115
CURVE 441679.863 1991935.208 N 21°42'38.7" W 361.99 21°57'58.6"(LT) 06°01'52.1" 364.21 184.37 950.00
PT 441873.103 1991811.179 N 32°41'38.0" W 229.62

Y13CUL_2
POINT N E BEARING DIST DELTA D L T R
POT 443674.247 1993502.909
LINE 443615.006 1993571.123 S 49°01'37.3" E 90.35
PC CURVE 443563.684 1993677.482 S 64°14'28.8" E 118.09 30°25'43.0"(LT) 25°27'53.2" 119.49 61.19 225.00
PT 443562.028 1993686.383 S 79°27'20.3" E 9.05
PC CURVE 443581.010 1993951.171 N 85°53'58.3" E 265.47 29°17'22.7"(LT) 10°54'48.5" 268.38 137.19 525.00
PT 443583.217 1993957.675 N 71°15'16.9" E 6.87
PC CURVE 443642.388 1994067.481 N 61°40'52.3" E 124.73 19°08'49.2"(LT) 15°16'43.9" 125.32 63.25 375.00
PT 443694.897 1994134.950 N 52°06'27.7" E 85.49
PC CURVE 443751.569 1994277.072 N 68°15'35.8" E 153.00 32°18'16.1"(RT) 20°50'05.4" 155.05 79.65 275.00
PT 443795.432 1994725.402 N 84°24'43.8" E 450.47
PC CURVE 443811.392 1994884.039 N 84°15'18.4" E 159.44

Y13H
POINT N E BEARING DIST DELTA D L T R
POT 441098.531 1991238.727
LINE 441163.107 1991241.814 N 02°44'10.9" E 64.65
PC CURVE 441266.231 1991224.875 N 09°19'41.0" W 104.51 24°07'43.8"(LT) 22°55'05.9" 105.28 53.43 250.00
PT 441319.064 1991204.178 N 21°23'32.9" W 56.74

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.

6/2/09

REVISIONS

6/2/09 11:51 AM

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
u2519ba	rw03e-1
Location and Surveys	
 KCI Associates of N.C., P.A. 4505 Falls of Neuse Rd, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 http://www.kci.com	
PROJECT SURVEYOR  James M. Gellenanth DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, James M. Gellenanth, 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 January 31, 2022 to March 9, 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 9th day of March, 2022.
James M. Gellenanth
 Professional Land Surveyor L-3860

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	311+18.50	179.96	442306.1563	1997384.2861
L	312+71.15	-231.27	441893.9581	1997234.2580
L	313+36.44	-175.00	441949.8078	1997168.6170
L	315+08.85	-175.00	441948.7076	1996996.2057
L	315+08.85	-198.84	441924.8679	1996996.3578
L	315+31.99	160.00	442283.5531	1996970.9315
L	315+57.15	-192.25	441931.1495	1996948.0142
L	317+18.29	-180.66	441941.7093	1996786.8046
L	319+34.15	175.00	442295.9865	1996568.6823
L	319+34.17	-171.74	441949.2495	1996570.8764
L	322+14.21	175.00	442294.1993	1996288.6280
L	322+32.44	-160.84	441958.2516	1996272.5222
L	323+39.13	-157.18	441961.5069	1996164.7614
L	323+64.21	175.00	442293.7354	1996140.3449
L	324+09.18	-154.10	441964.9270	1996093.3430
L	327+03.30	-149.50	441978.0970	1995793.6450
L	328+50.00	-165.00	441971.2136	1995643.2893
L	329+40.00	175.00	442316.8562	1995578.3547
L	330+10.00	-172.00	441976.8941	1995479.7124
L	330+70.00	-185.00	441969.5833	1995417.3769
L	332+00.00	-192.00	441976.4929	1995284.1663
L	334+00.00	-190.00	442004.2217	1995081.0464
L	337+39.83	156.70	443080.6527	1994017.3531
L	384+07.00	180.00	443140.8077	1990113.4078
L	384+98.21	-175.00	442789.1501	1990063.5384
L	386+40.11	170.69	443151.0745	1989970.9004
L	390+37.71	136.45	443208.5400	1989600.4930
L	392+00.00	-175.00	442973.4480	1989339.0265
L	394+22.80	127.46	443341.8553	1989260.7934
L	394+22.97	129.21	443343.4839	1989261.4463
L	395+26.10	125.90	443387.0529	1989173.6468
L	395+98.07	181.13	443468.8556	1989143.0963
L	396+40.00	-245.00	443128.0369	1988883.8301
L	399+50.00	200.00	443671.1422	1988887.5582
L	399+50.00	-190.00	443368.0889	1988642.0818
L	400+70.00	175.00	443724.0805	1988786.6617
L	400+70.00	-150.00	443481.4387	1988750.4444
L	407+35.00	-150.00	444012.7432	1988111.4305
L	409+30.00	-205.00	444162.7346	1987956.4955
L	410+00.00	175.00	444404.2665	1988258.1454
L	411+48.00	190.00	444534.5365	1988211.9917
L	412+00.00	-220.00	444419.0927	1987815.1403
L	412+50.00	175.00	444615.9060	1988161.2887
L	415+00.00	-175.00	444738.5665	1987749.4511
L	418+30.02	-175.00	445082.6898	1987673.4271
L	418+30.02	175.00	445135.9339	1988019.3535
L	421+30.02	175.00	445423.7432	1987986.6470
L	421+30.02	-175.00	445390.9281	1987638.1887
L	429+30.50	-175.00	446187.8809	1987563.1379
L	429+39.79	-167.40	446197.8467	1987569.8341
L	429+49.94	-175.00	446207.2345	1987561.3154
L	434+83.00	175.00	446770.7647	1987859.7950
L	435+73.00	130.00	446856.1492	1987806.5551
L	435+97.00	175.00	446884.2626	1987849.1067
L	453+81.17	223.85	446865.1538	1987730.4637
L	453+95.00	150.00	446871.9986	1987655.6411
L	454+11.26	229.18	446895.6085	1987732.9448
L	454+69.00	-134.14	448719.0322	1987365.8120
L	454+69.60	244.12	448755.0949	1987742.3521
L	454+83.77	246.63	448769.4379	1987743.5206
L	455+05.00	150.00	448781.5141	1987645.3278
L	455+28.00	-124.24	448778.7008	1987370.1397
L	455+49.07	-223.37	448790.3875	1987269.4740
L	456+64.09	-204.30	448906.6897	1987277.6767
L	457+80.15	-197.97	449022.8306	1987273.0912
L	458+80.37	-203.53	449122.0838	1987258.1582
L	462+00.19	-212.40	449439.6649	1987219.3469
L	463+55.58	-212.40	449594.3678	1987204.7809
L	464+05.58	-237.39	449641.8042	1987175.2040
L	465+55.58	-227.39	449792.0811	1987171.0990
L	466+00.58	-212.39	449838.2890	1987181.8147
L	466+37.58	-212.39	449875.1261	1987178.3463
L	466+37.58	-259.39	449870.7203	1987131.5533
L	467+48.00	-150.00	449990.9115	1987230.1089
L	467+48.00	-259.39	449980.6556	1987121.2024
L	467+90.08	-150.00	450032.8031	1987226.1639
L	467+90.08	150.00	450060.9303	1987524.8424
L	470+90.08	150.00	450354.0560	1987501.0666
L	473+42.00	-168.00	450599.5922	1987177.8521
L	475+00.00	-150.00	450763.4978	1987201.1098
L	483+00.00	-150.00	451583.1335	1987331.2464
L	483+00.00	150.00	451505.3721	1987620.9931
L	491+52.54	703.56	452007.9906	1988409.0747
L	491+58.94	763.36	451984.6189	1988464.3579
L	491+61.68	788.28	451974.8761	1988487.4033
L	492+58.48	674.81	452097.9731	1988425.4105
L	493+15.24	775.04	452088.0173	1988535.2354

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	494+55.28	-150.00	452678.4368	1987811.8033
L	494+55.28	150.00	452517.8860	1988065.2268
L	496+11.20	627.72	452376.6380	1988544.0385
L	497+28.42	605.34	452481.5305	1988588.7265
L	497+55.28	-150.00	452932.4664	1987982.1727
L	497+55.28	150.00	452762.0882	1988229.0963
L	503+00.00	150.00	453210.4327	1988538.4557
L	503+28.00	-150.00	453403.8571	1988307.4341
L	506+50.00	150.00	453498.5103	1988737.2303
L	508+25.53	-150.00	453813.3607	1988589.9930
L	509+10.00	146.00	453715.2067	1988881.7845
L	511+25.53	150.00	453897.0102	1989007.2860
L	511+25.53	-150.00	454057.5636	1988753.8643
L	514+09.86	150.00	454152.2794	1989155.9974
L	514+16.72	191.42	454139.1366	1989195.9217
L	515+17.84	225.26	454218.4728	1989274.7247
L	515+21.13	249.49	454210.8028	1989298.8058
L	515+99.11	238.29	454290.3528	1989324.1261
L	516+36.81	233.50	454328.6573	1989336.6803
L	517+01.35	151.54	454424.0935	1989289.7276
L	517+26.45	223.73	454419.4170	1989366.4265
L	518+75.57	-150.00	454700.1090	1989077.4678
L	519+02.60	150.00	454618.3277	1989367.3672
L	519+03.28	837.52	454376.0675	1990010.7864
L	519+05.02	179.25	454610.3569	1989395.6221
L	519+22.31	402.21	454549.5704	1989610.9391
L	519+48.13	789.10	454443.9076	1989984.3152
L	520+12.65	395.36	454645.7916	1989638.1690
L	520+19.25	527.69	454609.7027	1989765.6951
L	520+30.98	784.69	454539.6210	1990013.3397
L	521+06.58	833.97	454611.2566	1990088.7760

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y13	13+90.00	39.77	440589.2708	1990239.2335
Y13	13+90.00	75.00	440560.3468	1990259.3432
Y13	13+90.00	-44.84	440658.7421	1990190.9327
Y13	13+90.00	-75.00	440683.5051	1990173.7100
Y13	19+14.16	75.00	440859.5640	1990689.7095
Y13	19+95.39	75.00	440905.9338	1990756.4035
Y13	22+34.10	-75.00	441165.3580	1990866.7683
Y13	22+46.00	68.00	441054.7445	1990958.1758
Y13	23+84.10	75.00	441129.0899	1991076.0419
Y13	23+84.11	-75.00	441250.9588	1990988.5892
Y13	24+90.00	75.00	441192.6868	1991162.6958
Y13	25+15.85	124.30	441169.2068	1991213.4309
Y13	25+25.00	-75.00	441333.4546	1991100.1725
Y13	25+69.05	-118.10	441393.9487	1991108.1710
Y13	25+95.45	98.53	441239.3081	1991262.1384
Y13	25+96.63	-411.94	441641.7247	1990948.0798
Y13	26+40.00	75.00	441285.8762	1991283.0871
Y13	26+41.41	-121.54	441440.3363	1991161.5394
Y13	26+52.97	-230.98	441532.7289	1991101.8434
Y13	26+71.25	-347.30	441634.1242	1991042.2835
Y13	26+77.89	-404.48	441682.4265	1991011.0748
Y13	26+80.00	-75.00	441427.8067	1991220.1953
Y13	27+04.79	-278.38	441600.5270	1991110.1831
Y13	27+50.00	-75.00	441471.6274	1991273.4285
Y13	28+90.00	75.00	441449.0807	1991477.3548
Y13	28+98.02	-75.00	441566.7155	1991383.9402
Y13	28+98.72	-92.58	441580.3250	1991372.7951
Y13	29+05.74	-234.20	441690.7280	1991283.8360
Y13	29+08.30	-282.59	441728.5006	1991253.4856
Y13	29+12.38	-357.43	441786.9170	1991206.5480
Y13	29+16.34	-433.95	441846.4381	1991158.3196
Y13	29+60.00	-92.00	441620.0802	1991417.9404
Y13	29+60.00	-75.00	441607.5002	1991429.3747
Y13	29+61.29	-242.67	441732.3992	1991317.5043
Y13	29+70.81	-441.01	441884.9830	1991190.4852
Y13	30+25.00	-75.00	441650.8702	1991476.4722
Y13	32+50.00	100.00	441681.4515	1991759.5356
Y13	33+30.00	103.20	441735.4141	1991818.6818
Y13	33+45.73	212.71	441668.5910	1991906.8520
Y13	34+03.86	227.12	441699.1985	1991958.3252
Y13	34+70.00	108.80	441829.8486	1991922.1877
Y13	34+90.00	-100.00	441992.4086	1991789.6294
Y13	56+00.00	-110.00	443528.0123	1993224.5122
Y13	56+56.00	100.00	443431.4667	1993419.2298
Y13	56+89.52	100.00	443456.6485	1993441.3562
Y13	57+30.00	-135.00	443642.3106	1993291.6901
Y13	58+50.00	103.06	443572.5178	1993548.8964
Y13	58+51.91			

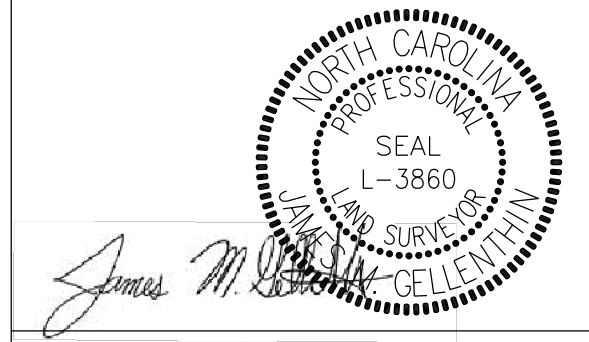
RIGHT OF WAY CONTROL SHEET

Location and Surveys



KCI Associates of N.C., P.A.
4505 Falls of Neuse Rd, Suite 400
Raleigh, NC 27609
Phone (919) 783-9214

PROJECT SURVEYOR



**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y13RPD	19+44.11	-70.00	443221.9245	1991681.8661
Y13RPD	13+42.39	-100.00	443077.1046	1991132.3504
Y13RPD	34+00.00	-100.00	443498.5101	1993111.5654
Y13RPD	30+00.00	-100.00	443615.7562	1992699.3465
Y13RPD	32+34.28	-100.00	443558.7226	1992957.1661
Y13RPD	25+15.15	-70.00	443466.5998	1992197.8257
Y13RPD	27+15.15	-70.00	443547.6193	1992390.5350
Y13RPD	28+50.00	-85.00	443594.9428	1992531.9903
Y13RPD	24+19.15	-70.00	443425.4666	1992111.0860
Y13RPD	24+12.82	-86.26	443437.4485	1992098.4046
Y13RPD	17+51.29	-70.00	443143.4475	1991509.4138
Y13RPD	10+07.10	-98.00	443075.9622	1990812.0705
Y13RPD	12+80.19	-107.59	443080.5853	1991074.6780
Y13RPD	23+73.24	-69.46	443405.3122	1992069.8355
Y13RPD	22+78.37	-69.36	443364.5730	1991984.1609
Y13RPD	20+77.24	-69.51	443278.5230	1991802.3710
Y13RPD	20+73.07	-69.42	443276.6541	1991798.6324

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y15	10+94.02	-62.29	453952.2059	1987749.7445
Y15	10+88.68	56.77	453856.8585	1987821.2352
Y15	10+00.00	-32.00	453873.1109	1987695.9995
Y15	10+00.00	25.55	453826.3992	1987729.6176
Y15	10+00.00	-24.97	453867.4041	1987700.1066
Y15	10+90.72	99.04	453825.5423	1987849.7188
Y15	11+48.76	37.05	453911.5227	1987855.2087
Y15	10+87.47	-29.81	453923.1095	1987765.4817
Y15	10+88.30	30.43	453876.9980	1987804.2530

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y16	26+02.24	141.08	453660.6577	1988484.6274
Y16	12+85.47	60.00	452771.0365	1989459.5075
Y16	13+67.51	60.00	452823.0652	1989395.4403
Y16	17+16.00	94.00	453068.1232	1989145.3457
Y16	19+66.43	272.84	453364.4858	1989062.4735
Y16	20+56.93	371.28	453497.9211	1989053.7254
Y16	20+15.35	406.34	453499.1475	1989108.1027
Y16	18+50.48	308.20	453319.2975	1989174.9580
Y16	17+76.11	222.09	453205.5920	1989178.8713
Y16	18+00.00	142.00	453208.3716	1989047.7202
Y16	19+58.27	117.05	453238.0257	1988971.1136
Y16	15+72.00	73.00	452961.4487	1989244.3282
Y16	19+44.63	373.55	453429.2492	1989142.6172
Y16	19+58.37	144.77	453259.6858	1988988.4166
Y16	40+41.44	-32.77	454545.1800	1987360.2660
Y16	37+37.39	-46.14	454298.8064	1987538.9052
Y16	39+45.00	-45.00	454462.0881	1987410.6771
Y16	41+92.00	-46.00	454654.6508	1987256.1481
Y16	41+92.00	-34.13	454662.0522	1987265.4247
Y16	43+66.00	-46.00	454790.6545	1987147.6222
Y16	44+27.35	-77.37	454819.0407	1987084.8365
Y16	40+23.98	-47.02	454522.6480	1987359.9824
Y16	97+91.19	14.57	452576.1582	1989539.6432
Y16	97+93.98	23.93	452583.7197	1989545.8355
Y16	44+85.70	-64.89	454872.4356	1987058.1990
Y16	47+14.64	65.00	455132.3970	1987016.9319
Y16	32+40.17	-35.43	453926.6568	1987877.5322
Y16	32+08.80	-30.19	453909.5517	1987904.9907
Y16	34+62.30	-75.72	454064.2390	1987689.1500
Y16	34+28.09	-37.30	454062.4398	1987741.1828

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y16_REV	16+60.00	-77.00	452899.8164	1989081.7076
Y16_REV	11+00.00	60.00	452653.5257	1989603.0014
Y16_REV	11+00.00	39.40	452637.5908	1989589.9519
Y16_REV	17+89.95	-589.76	452581.9602	1988658.8854
Y16_REV	17+21.05	-174.05	452862.5174	1988973.2853
Y16_REV	17+06.68	-342.55	452722.2690	1988878.7942
Y16_REV	19+12.20	-152.43	452999.2532	1988837.9770
Y16_REV	18+50.00	-148.13	452963.5846	1988889.1105
Y16_REV	28+00.00	-168.00	453543.9650	1988136.7454
Y16_REV	29+58.00	-166.51	453644.2245	1988014.6176
Y16_REV	14+75.00	-60.00	452797.0222	1989236.4570
Y16_REV	37+26.68	47.03	454354.3966	1987623.9069
Y16_REV	38+53.62	46.86	454453.8027	1987544.9580
Y16_REV	41+48.18	51.30	454687.4641	1987365.5604
Y16_REV	42+33.73	40.00	454747.5130	1987303.5863
Y16_REV	43+63.73	39.52	454849.1268	1987222.5021
Y16_REV	43+63.79	55.64	454859.1761	1987235.0958
Y16_REV	33+00.00	79.27	454055.2872	1987918.7739
Y16_REV	33+20.57	60.44	454056.3655	1987891.3642

ROW MARKER IRON PIN AND CAP-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y14	24+47.73	-129.99	448398.2100	1987681.4244
Y14	27+85.00	-60.00	448306.7158	1988013.5106
Y14	28+25.51	-92.98	448337.0321	1988056.0572
Y14	28+22.60	-167.93	448412.0080	1988057.9591
Y14	28+40.69	-168.63	448411.5489	1988076.0563
Y14	29+22.52	-171.81	448409.4721	1988157.9269
Y14	29+30.00	-76.00	448313.3749	1988159.2386
Y14	30+40.00	-60.00	448290.3468	1988267.9846
Y14	32+11.97	-56.36	448275.6786	1988439.3696
Y14	31+45.89	29.48	448194.2510	1988367.9110
Y14	31+45.89	45.00	448178.7679	1988366.9151
Y14	27+85.00	105.00	448142.0561	1988002.9189
Y14	21+66.46	170.05	448116.8489	1987381.4828
Y14	14+58.71	-65.00	448399.4272	1986690.7350
Y14	12+83.06	-65.00	448411.4802	1986615.4974
Y14	17+18.00	-65.00	448381.6350	1986949.4166
Y14	9+86.73	-65.00	448409.8270	1986209.8281
Y14	30+40.00	45.00	448185.5633	1988261.2445
Y14	25+18.87	157.39	448106.8533	1987733.9727
Y14	21+23.32	-100.53	448389.6419	1987355.7933
Y14	20+18.36	-100.00	448395.9536	1987251.3958
Y14	10+45.00	98.72	448250.2168	1986278.1011
Y14	12+50.00	75.00	448273.7309	1986474.1332
Y14	14+90.00	75.00	448257.6100	1986712.3475
Y14	18+12.00	133.00	448177.6515	1987029.6086
Y14	15+18.43	-65.00	448395.3294	1986750.3129
Y14	32+11.99	-28.98	448248.3461	1988437.6235
Y14	29+19.30	-151.67	448389.5800	1988153.4210
Y14	15+60.00	-65.00	448392.4767	1986791.7891
Y14	9+76.11	-39.17	448383.1163	1986200.7478
Y14	20+78.42	-100.00	448391.9900	1987311.0210
Y14	29+13.36	-201.48	448439.6653	1988150.6903
Y14	29+00.69	-200.99	448439.9868	1988138.0166
Y14	9+76.66	-65.00	448408.8845	1986198.9214

I, James M. Gellenthin, 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 January 31, 2022 to March 9, 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 9th day of March, 2022.

Professional Land Surveyor L-3860

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 JANUARY 2022 TO MARCH 2022.

PERMANENT EASEMENT CONTROL SHEET

PROJECT SURVEYOR James M. Gellenthin Professional Land Surveyor L-3860
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
L	333+35.00	-210.00	441975.4420	1995144.4561
L	333+35.00	-190.06	441995.2112	1995147.0507
L	334+15.00	-205.00	441991.5156	1995063.7161
L	334+15.00	-187.66	442008.6828	1995066.1524
L	440+00.00	-175.00	447252.6695	1987462.8645
L	440+00.00	-195.00	447250.7944	1987442.9526
L	442+25.00	-175.00	447476.6784	1987441.7691
L	442+25.00	-195.00	447474.8033	1987421.8572
L	445+19.00	175.00	447802.2012	1987762.6624
L	445+21.00	193.00	447805.8901	1987780.3956
L	448+48.00	-175.00	448096.9370	1987383.3580
L	452+13.00	203.94	448495.8580	1987726.4118
L	452+22.00	150.00	448499.7606	1987671.8611
L	457+02.62	-199.35	448945.5064	1987278.9877
L	457+11.77	-253.76	448949.5143	1987223.9577
L	457+87.89	-248.48	449025.7985	1987222.9819
L	460+48.93	-210.42	449289.2519	1987235.5008
L	460+76.47	-261.09	449311.9257	1987182.4739
L	502+81.50	150.00	453195.2058	1988527.9491
L	503+04.00	-150.00	453384.1033	1988293.8038
L	518+50.34	825.64	454320.1986	1989976.5192
L	518+51.13	840.91	454315.4988	1989991.0797
L	518+95.38	819.52	454373.4611	1989990.5589
L	519+06.89	964.71	454335.3626	1990131.3786
L	519+20.72	801.83	454408.4323	1989984.8103
L	519+28.73	896.18	454384.7773	1990076.6753
L	519+33.69	758.46	454438.1509	1989949.5711
L	519+36.61	969.36	454368.6429	1990148.7259
L	519+46.17	757.32	454452.5841	1989953.6556
L	519+73.07	893.88	454437.0000	1990093.2134

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y14	8+11.00	29.22	448282.9800	1986052.0581
Y14	8+11.00	45.50	448267.4981	1986057.0823
Y14	8+53.03	-29.64	448351.2880	1986075.8040
Y14	8+57.10	-52.00	448374.0028	1986074.3115
Y14	8+70.00	45.00	448283.0013	1986110.2983
Y14	9+45.00	48.00	448293.0006	1986179.9689
Y14	9+76.56	-60.00	448403.8957	1986199.2750
Y14	9+78.96	67.00	448277.6450	1986213.2548
Y14	10+04.00	-65.00	448411.1660	1986227.6063
Y14	10+81.00	-83.00	448433.2572	1986306.4157
Y14	12+16.00	100.00	448250.1742	1986440.5613
Y14	12+24.00	79.16	448270.7128	1986448.9715
Y14	12+63.00	-83.00	448430.7666	1986495.8870
Y14	12+90.00	-65.00	448411.0037	1986522.4254
Y14	14+58.40	75.03	448259.7438	1986680.8165
Y14	14+84.00	91.50	448241.5606	1986705.2293
Y14	18+10.00	150.00	448160.8288	1987026.4468
Y14	25+00.15	-119.11	448383.9873	1987733.0468
Y14	25+38.33	171.51	448091.5221	1987752.4917
Y14	28+10.00	115.00	448130.4719	1988027.2254
Y14	28+22.21	-229.36	448473.3415	1988061.5156
Y14	28+39.12	-229.33	448472.2248	1988078.3900
Y14	29+94.00	74.00	448159.5760	1988213.4778
Y14	30+42.00	62.50	448167.9711	1988262.1170
Y14	31+59.00	64.50	448158.4647	1988378.7473
Y14	32+83.00	30.56	448184.3739	1988504.6701
Y14	33+75.00	-29.82	448238.7290	1988600.3567
Y14	34+67.19	-55.00	448257.9347	1988693.9751
Y14	34+67.45	-29.62	448232.5914	1988692.6064

I, James M. Gellenthin, 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 January 31, 2022 to March 9, 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 9th day of March, 2022.

 Professional Land Surveyor L-3860

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y13	14+44.00	-75.00	440714.3309	1990218.0530
Y13	15+65.00	-92.00	440797.3615	1990307.6962
Y13	22+34.10	-92.00	441179.3163	1990857.0644
Y13	23+84.10	-92.00	441264.7612	1990978.6647
Y13	25+20.85	-500.02	441669.3587	1990839.7417
Y13	25+35.32	-525.09	441697.1666	1990834.8710
Y13	25+43.00	-92.75	441358.3028	1991103.4579
Y13	25+73.72	-228.12	441483.6278	1991044.2754
Y13	25+78.94	-227.68	441486.3412	1991048.4750
Y13	25+83.46	-388.94	441616.1435	1990952.7025
Y13	25+90.56	-516.87	441720.9414	1990879.0384
Y13	26+40.00	-408.11	441663.4324	1990981.6771
Y13	26+47.96	-430.50	441685.4683	1990973.3923
Y13	26+64.00	-94.44	441433.0307	1991195.7396
Y13	29+92.00	-75.00	441628.7751	1991452.6316
Y13	59+85.96	188.46	443604.4863	1993698.8365
Y13	60+34.59	244.07	443593.3738	1993768.1279
Y13	62+26.73	329.42	443630.3501	1993947.0728
Y13	63+32.45	338.75	443671.8384	1994023.2001
Y13	64+51.47	329.83	443729.7345	1994101.5603
Y13	65+64.91	321.05	443780.5137	1994179.9970
Y13	66+71.36	337.80	443800.7022	1994266.3237
Y13	70+13.00	-84.47	444305.7453	1994434.0369
Y13	75+20.00	-83.00	444462.2458	1994916.2803

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y15	10+47.60	-48.44	453913.8324	1987723.6698
Y15	10+53.81	43.49	453844.6552	1987784.5293
Y15	10+56.45	116.71	453788.4414	1987831.5321

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y16	0+00.00	0.03	444461.4711	1995018.6107
Y16	13+26.92	77.00	452810.5844	1989437.9073
Y16	13+70.00	77.00	452837.8669	1989404.1642
Y16	16+09.71	78.50	452989.3872	1989218.4042
Y16	30+72.00	-173.75	453710.0891	1987921.2919
Y16	34+41.00	-127.00	454014.0639	1987664.4538
Y16	47+14.64	83.00	455143.6240	1987031.0015

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y13RPB	27+96.83	-876.19	441375.1287	1993618.2326
Y13RPB	29+07.16	-721.13	441473.9155	1993469.7318

ROW MARKER PERMANENT EASEMENT-E				
ALIGN	STATION	OFFSET	NORTH	EAST
Y16_REV	10+14.56	74.01	452610.1294	1989678.0899
Y16_REV	19+06.08	-174.00	452978.6131	1988829.2090
Y16_REV	29+33.00	-193.00	453607.9132	1988017.4784
Y16_REV	33+06.49	73.38	454055.6256	1987910.1702
Y16_REV	33+15.04	77.02	454064.0771	1987906.9902
Y16_REV	37+69.62	46.98	454388.0239	1987597.1992
Y16_REV	37+69.64	58.98	454395.4869	1987606.5962
Y16_REV	42+71.01	39.86	454776.6572	1987280.3303
Y16_REV	44+78.14	73.11	454959.6641	1987177.7952

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 JANUARY 2022 TO MARCH 2022.

REVISIONS

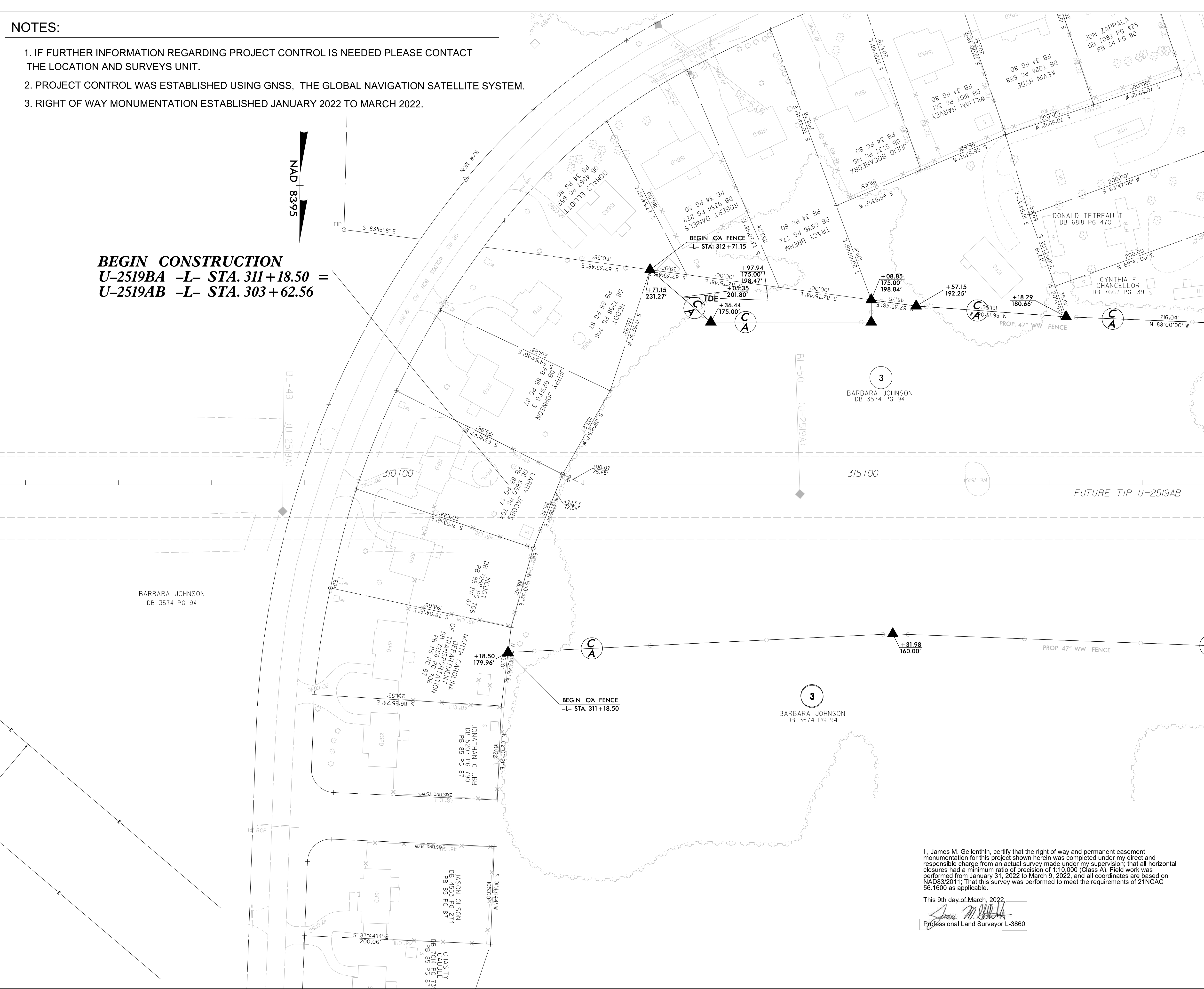
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 At: KCI-B70F833
 Jm.gellenthin


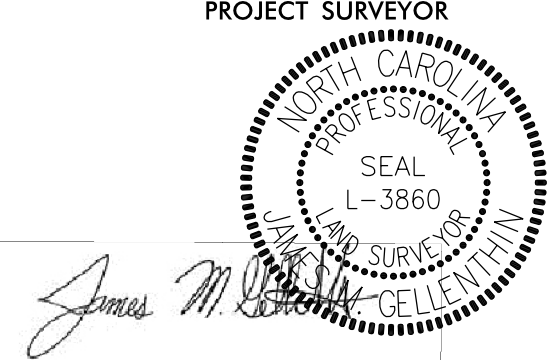
NOTES:

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- 2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- 3. RIGHT OF WAY MONUMENTATION ESTABLISHED JANUARY 2022 TO MARCH 2022.

BEGIN CONSTRUCTION
U-2519BA -L- STA. 311+18.50 =
U-2519AB -L- STA. 303+62.56

NAD
83.95



PROJECT REFERENCE NO. U-2519BA	SHEET NO. RW04
Location and Surveys	
 KCI Associates of N.C., P.A. 4505 Falls of Neuse Rd, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 http://www.kci.com	
PROJECT SURVEYOR	
 <i>James M. Gellenthin</i>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

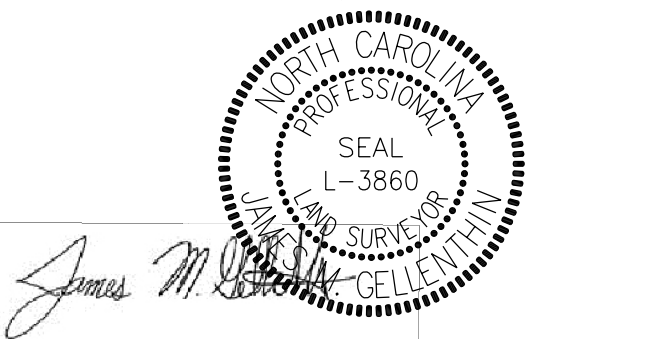
MATCHLINE -L- STA. 319+00 SEE SHEET RW04A

I, James M. Gellenthin, 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 January 31, 2022 to March 9, 2022, and all coordinates are based on NAD83/2011. That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

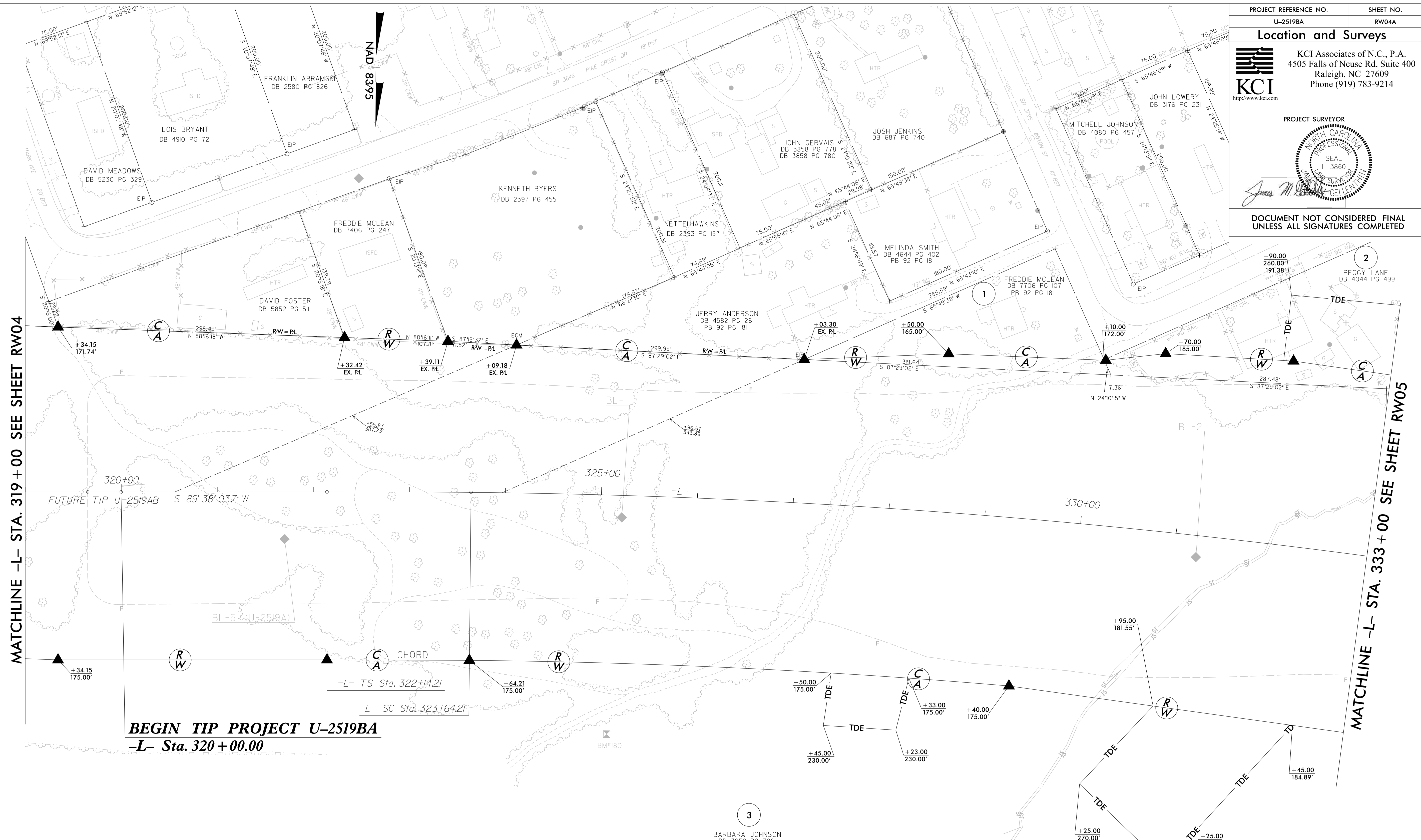
This 9th day of March, 2022
James M. Gellenthin
 Professional Land Surveyor L-3860

Location and Surveys

KCI
 KCI Associates of N.C., P.A.
 4505 Falls of Neuse Rd, Suite 400
 Raleigh, NC 27609
 Phone (919) 783-9214
<http://www.kci.com>

PROJECT SURVEYOR

 James M. Gellenthin

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

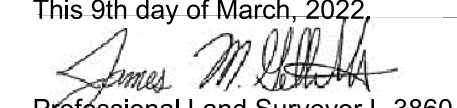


MATCHLINE -L- STA. 319 + 00 SEE SHEET RW04

MATCHLINE -L- STA. 333 + 00 SEE SHEET RW05

BEGIN TIP PROJECT U-2519BA
 -L- Sta. 320 + 00.00

I, James M. Gellenthin, 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 January 31, 2022 to March 9, 2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

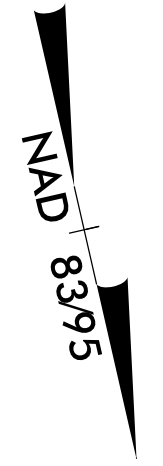
This 9th day of March, 2022.

 Professional Land Surveyor L-3860

-L-
 Pls Sta 323+14.22
 $\theta_s = 0^\circ 33' 44.9''$
 $L_s = 150.00'$
 $LT = 100.00'$
 $ST = 50.00'$
 Pls Sta 333+35.86
 $\Delta = 14^\circ 29' 45.0'' (RT)$
 $D = 0^\circ 44' 59.8''$
 $L = 1,932.92'$
 $T = 971.65'$
 $R = 7,640.00'$
 $SE = 0.03$

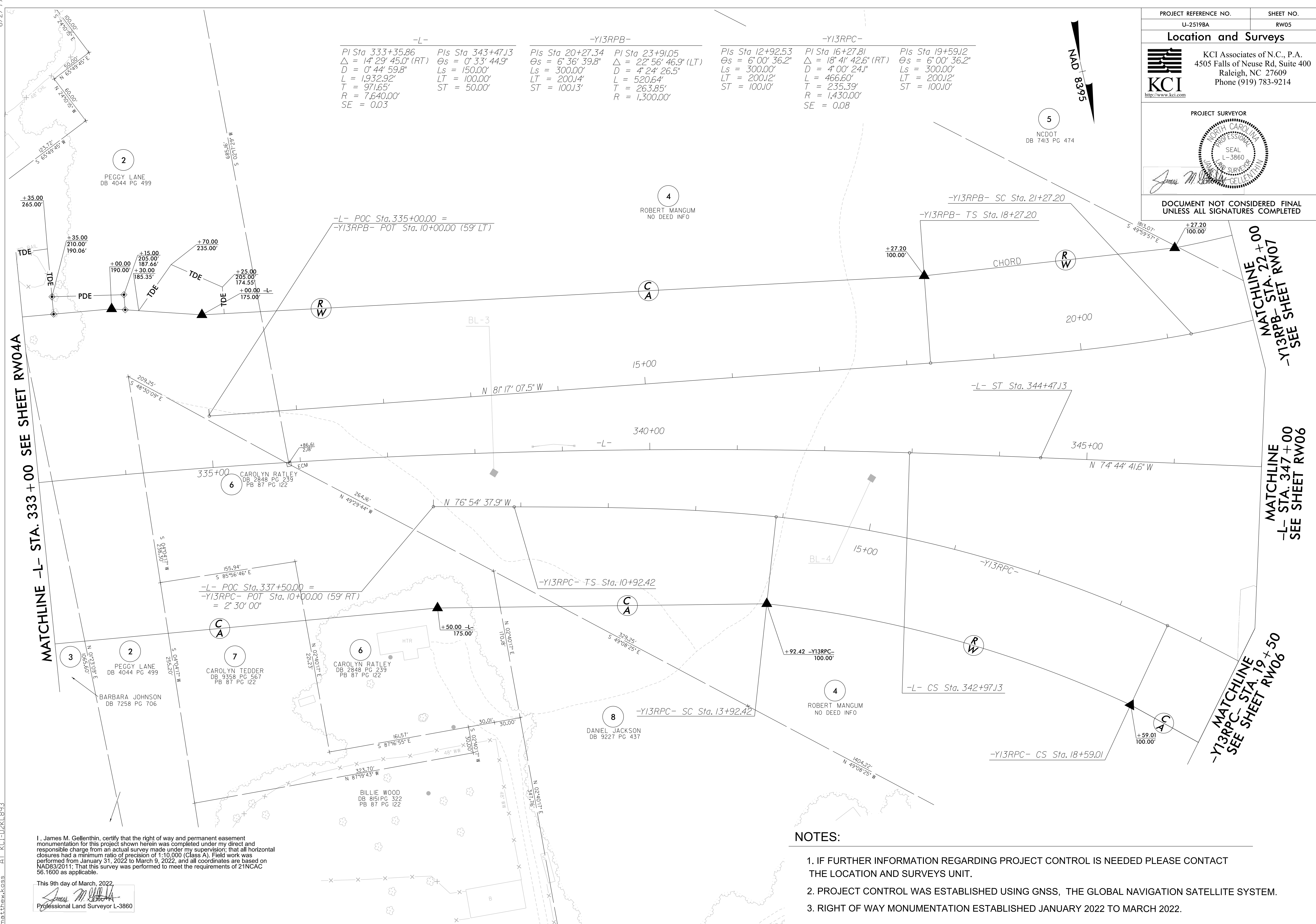
NOTES:

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 JANUARY 2022 TO MARCH 2022.

6/2/19

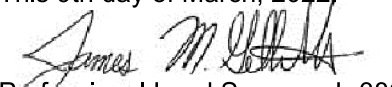


-L-		-Y13RPB-		-Y13RPC-		
PI Sta 333+35.86	PIs Sta 343+47.13	PIs Sta 20+27.34	PI Sta 23+91.05	PIs Sta 12+92.53	PI Sta 16+27.81	PIs Sta 19+59.12
$\Delta = 14^{\circ} 29' 45.0''$ (RT)	$\Theta_s = 0^{\circ} 33' 44.9''$	$\Theta_s = 6^{\circ} 36' 39.8''$	$\Delta = 22^{\circ} 56' 46.9''$ (LT)	$\Theta_s = 6^{\circ} 00' 36.2''$	$\Delta = 18^{\circ} 41' 42.6''$ (RT)	$\Theta_s = 6^{\circ} 00' 36.2''$
$D = 0^{\circ} 44' 59.8''$	$L_s = 150.00'$	$L_s = 300.00'$	$D = 4^{\circ} 24' 26.5''$	$L_s = 300.00'$	$D = 4^{\circ} 00' 24.1''$	$L_s = 300.00'$
$L = 1,932.92'$	$LT = 100.00'$	$LT = 200.14'$	$L = 520.64'$	$LT = 200.12'$	$L = 466.60'$	$LT = 200.12'$
$T = 971.65'$	$ST = 50.00'$	$ST = 100.13'$	$T = 263.85'$	$ST = 100.10'$	$T = 235.39'$	$ST = 100.10'$
$R = 7,640.00'$			$R = 1,300.00'$		$R = 1,430.00'$	
$SE = 0.03$					$SE = 0.08$	



I, James M. Gellenthin, 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 January 31, 2022 to March 9, 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 9th day of March, 2022


 Professional Land Surveyor L-3860

NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED JANUARY 2022 TO MARCH 2022.

P:\MAR-2022-0810\KCI-D22KL893\KCI-D22KL893\DRAWINGS\U2519BA-1s-rw05.dgn
 KCI-D22KL893
 KCI-D22KL893

Location and Surveys

KCI Associates of N.C., P.A. 4505 Falls of Neuse Rd, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214

PROJECT SURVEYOR NORTH CAROLINA PROFESSIONAL SEAL L-3860 JAMES M. GELLENTHIN

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, James M. Gellenthin, 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...

This 9th day of March, 2022 James M. Gellenthin Professional Land Surveyor L-3860

REVISIONS

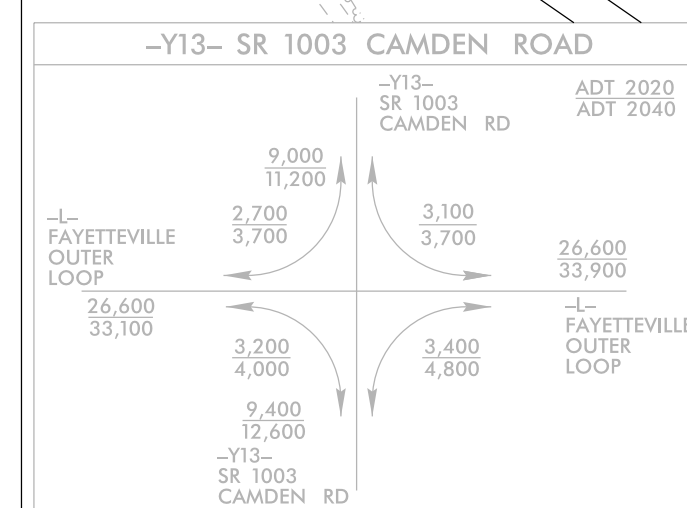
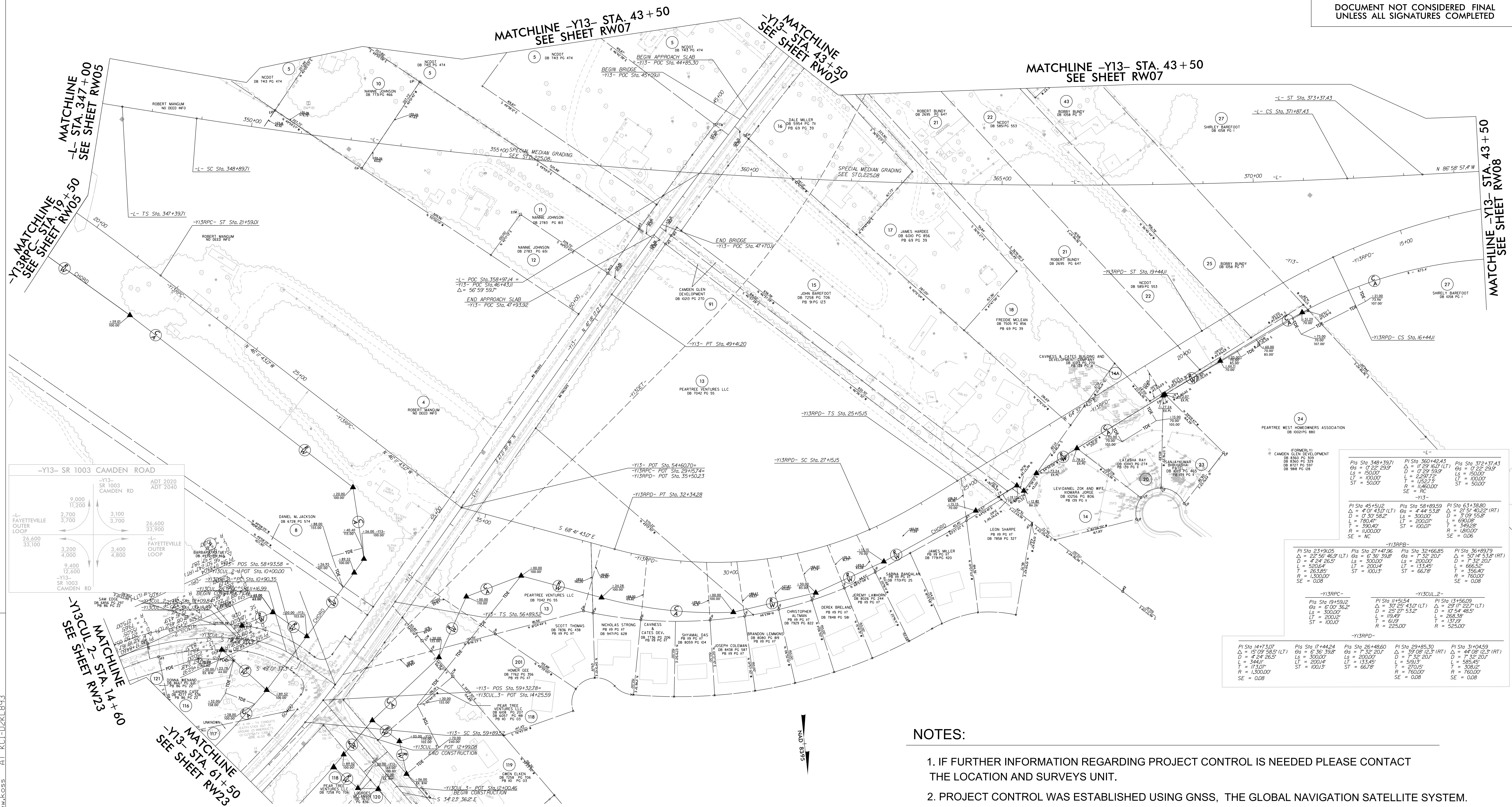


Table of curve data including PI, PVI, L, T, R, E, and SE values for various road segments.

NOTES:

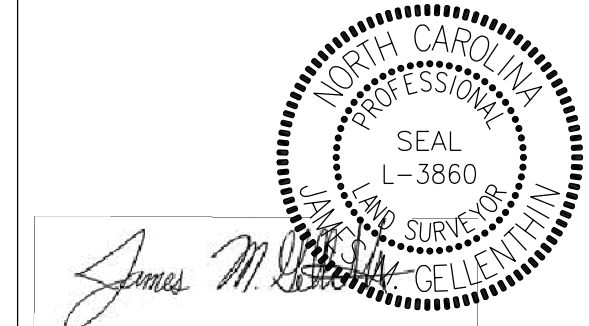
- 1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED JANUARY 2022 TO MARCH 2022.

IS: MAR 2022 15:55 NCDDI: Survey\A U2519BA RW Staking\DRAWINGS\U2519BA\1s_rw06.dgn KCI-D2K1893 mathew.koss

Location and Surveys

KCI Associates of N.C., P.A. 4505 Falls of Neuse Rd, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 http://www.kci.com

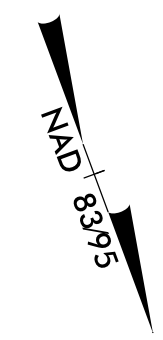
PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

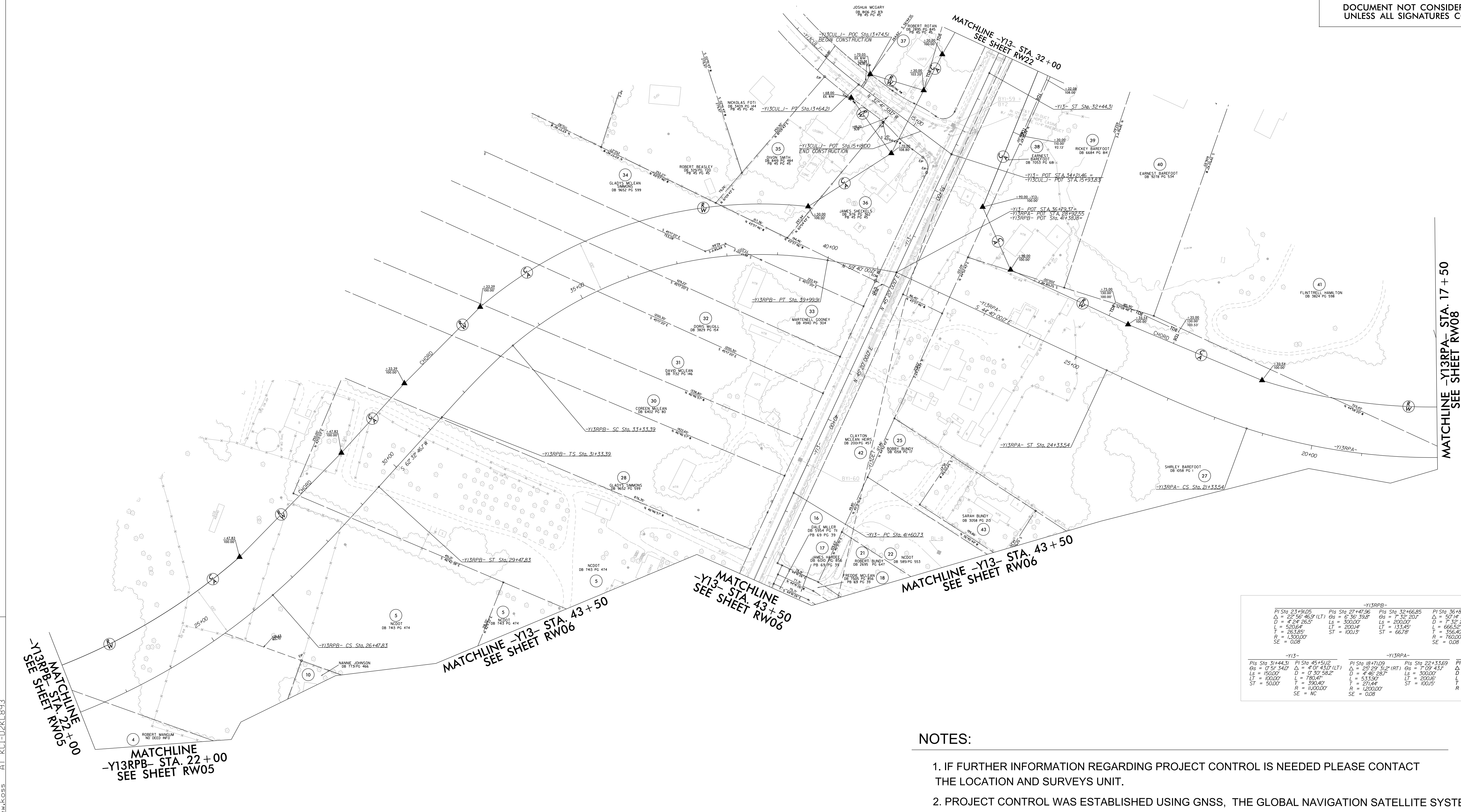
I, James M. Gellenthin, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from January 31, 2022 to March 9, 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 9th day of March, 2022. James M. Gellenthin Professional Land Surveyor L-3860



REVISIONS

IS: MAR 2022 13:15 NCDOT Survey\A U2519BA RW Staking\DRAWINGS\U2519BA_1s_rw07.dgn KCI-D2519BA_1s_rw07.dgn



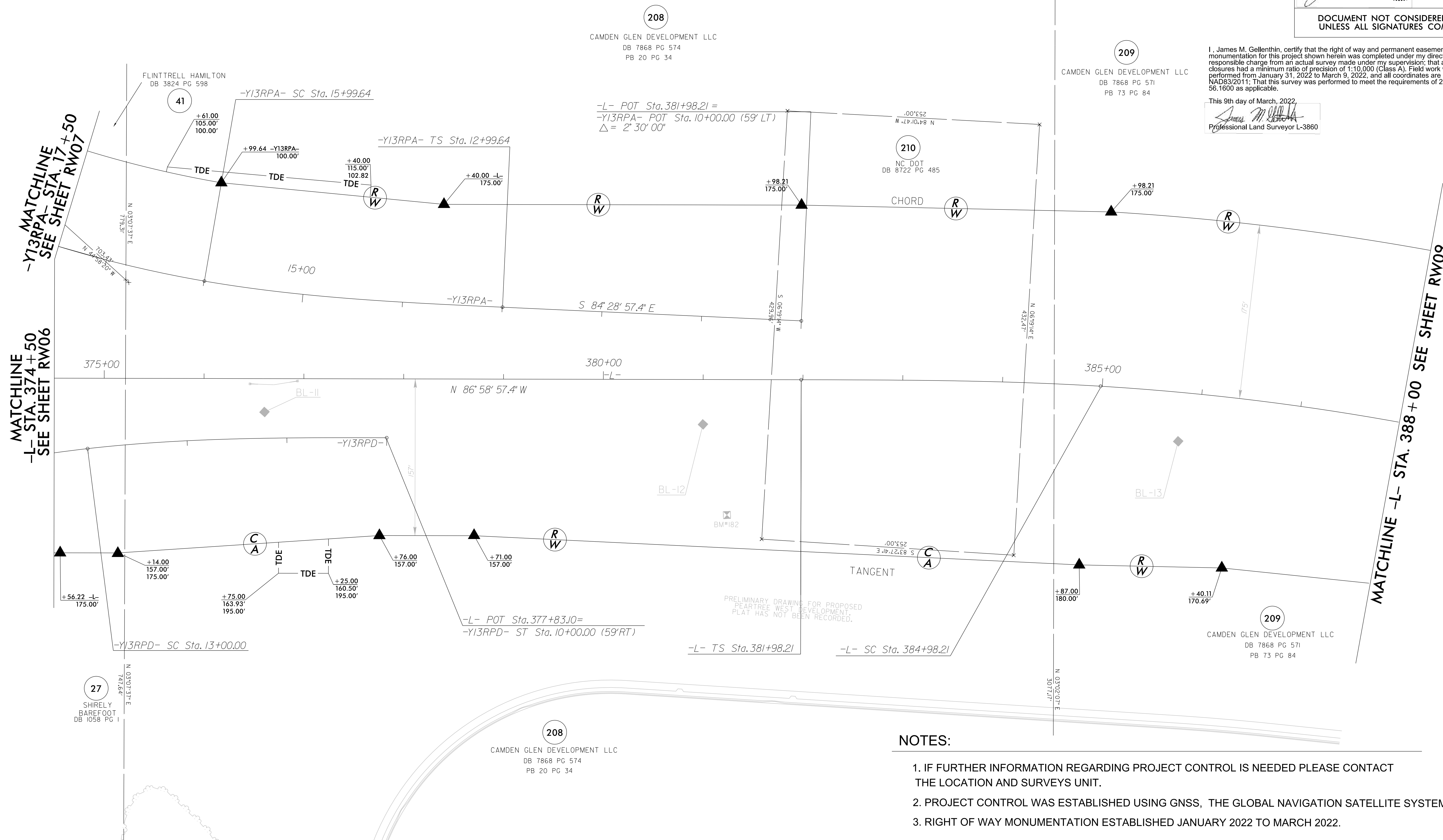
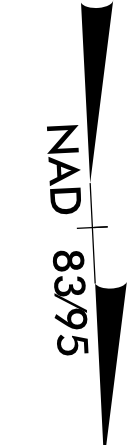
-Y13RPA-			
PI Sta 23+91.05	PI Sta 27+47.96	PI Sta 32+66.85	PI Sta 36+80.79
$\Delta = 22^{\circ}56'46.9"$ (LT)	$\Delta = 6^{\circ}36'39.8"$	$\Delta = 7^{\circ}32'20.1"$	$\Delta = 57^{\circ}14'53.8"$ (RT)
$D = 4^{\circ}28'26.5"$	$D = 0^{\circ}50'58.2"$	$D = 4^{\circ}40'58.7"$	$D = 7^{\circ}32'20.1"$
$L = 500.00'$	$L = 300.00'$	$L = 200.00'$	$L = 666.52'$
$T = 26.325'$	$T = 100.13'$	$T = 133.45'$	$T = 356.40'$
$R = 1300.00'$	$R = 1000.00'$	$R = 667.8'$	$R = 760.00'$
$SE = 0.08'$			$SE = 0.08'$

-Y13-		-Y13RPA-		-Y13CUL-	
PI Sta 31+44.31	PI Sta 45+50.2	PI Sta 18+71.09	PI Sta 22+33.69	PI Sta 1184.37	PI Sta 1184.37
$\Delta = 0^{\circ}51'34.0"$	$\Delta = 4^{\circ}01'43.0"$ (LT)	$\Delta = 25^{\circ}29'31.2"$ (RT)	$\Delta = 7^{\circ}09'43.1"$	$\Delta = 27^{\circ}57'58.6"$ (LT)	$\Delta = 27^{\circ}57'58.6"$ (LT)
$D = 1500.00'$	$D = 0^{\circ}50'58.2"$	$D = 4^{\circ}40'58.7"$	$D = 300.00'$	$D = 6^{\circ}01'52.1"$	$D = 6^{\circ}01'52.1"$
$L = 1000.00'$	$L = 780.46'$	$L = 533.90'$	$L = 200.00'$	$L = 364.29'$	$L = 364.29'$
$T = 500.00'$	$T = 390.49'$	$T = 271.44'$	$T = 100.00'$	$T = 184.37'$	$T = 184.37'$
$R = 1500.00'$	$R = 1000.00'$	$R = 1200.00'$	$R = 100.00'$	$R = 950.00'$	$R = 950.00'$
$SE = NC$		$SE = 0.08'$			

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 JANUARY 2022 TO MARCH 2022.

-L- Pls Sta 383+98.25 $\theta_s = 3^\circ 22' 13.2''$ $L_s = 300.00'$ $LT = 200.04'$ $ST = 100.03'$	-Y13RPA- Pls Sta 404+50.03 $\Delta = 74^\circ 51' 43.7'' (RT)$ $D = 2' 14' 48.8''$ $L = 3,331.81'$ $T = 1,951.81'$ $R = 2,550.00'$ $SE = 0.07$ * DESIGN EXCEPTION REQUIRED SSD	-Y13RPA- Pls Sta 14+99.80 $\theta_s = 7^\circ 09' 43.1''$ $L_s = 300.00'$ $LT = 200.16'$ $ST = 100.15'$	-Y13RPA- Pls Sta 18+71.09 $\Delta = 25^\circ 29' 31.2'' (RT)$ $D = 4' 46' 28.7''$ $L = 533.90'$ $T = 271.44'$ $R = 1,200.00'$ $SE = 0.08$
		-Y13RPD- Pls Sta 12+00.14 $\theta_s = 6^\circ 36' 39.8''$ $L_s = 300.00'$ $LT = 200.14'$ $ST = 100.13'$	-Y13RPD- Pls Sta 14+73.07 $\Delta = 15^\circ 09' 58.5'' (LT)$ $D = 4' 24' 26.5''$ $L = 344.11'$ $T = 173.07'$ $R = 1,300.00'$

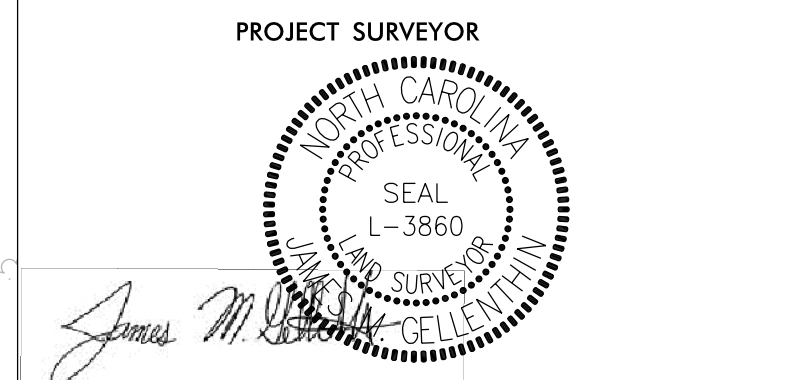


NOTES:

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Location and Surveys

KCI
 KCI Associates of N.C., P.A.
 4505 Falls of Neuse Rd, Suite 400
 Raleigh, NC 27609
 Phone (919) 783-9214
<http://www.kci.com>



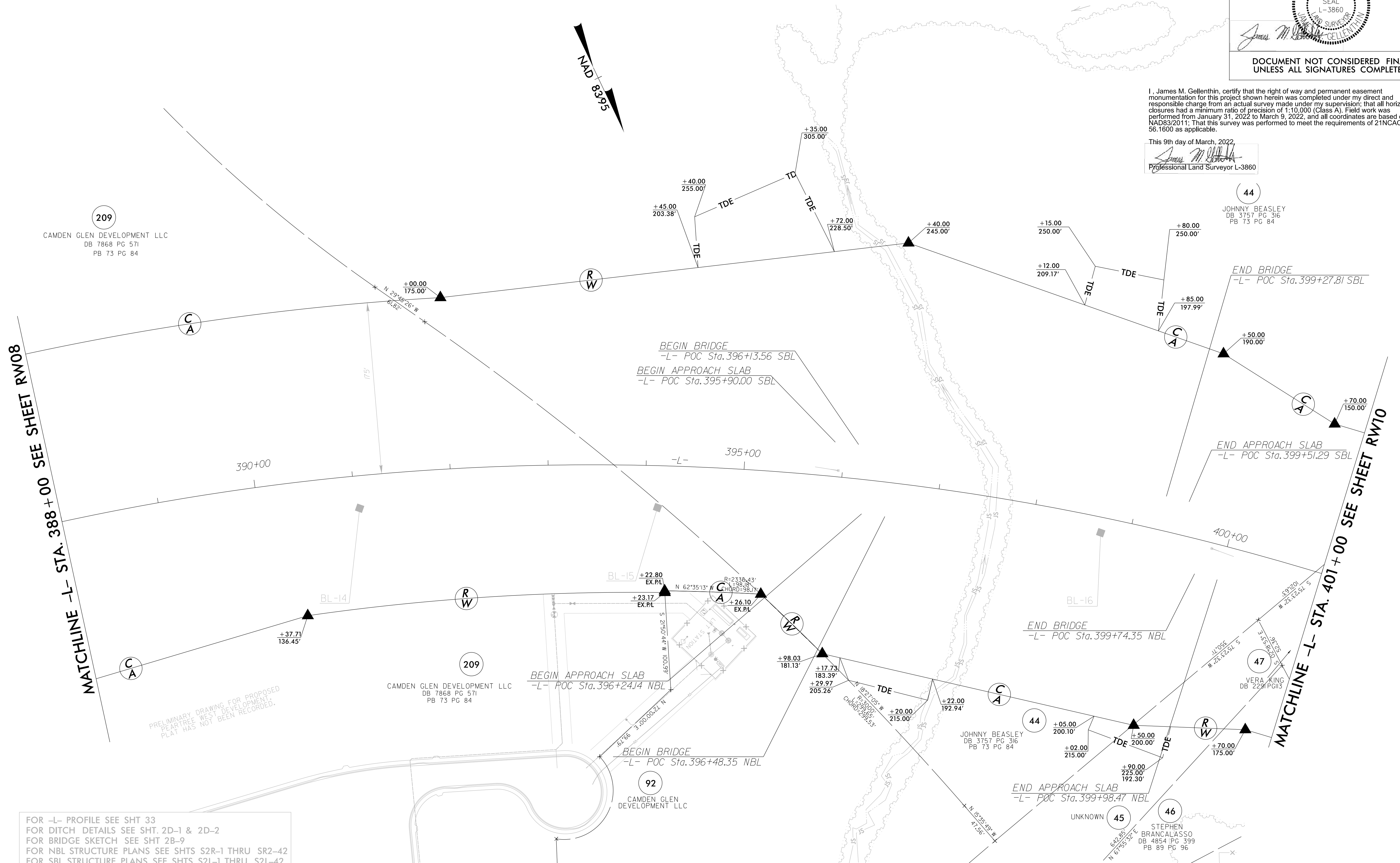
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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3. RIGHT OF WAY MONUMENTATION ESTABLISHED JANUARY 2022 TO MARCH 2022.

-L-
 PI Sta. 404+50.03
 $\Delta = 74^{\circ} 51' 43.7''$ (RT)
 $D = 2^{\circ} 14' 48.8''$
 $L = 3,331.81'$
 $T = 1,951.81'$
 $R = 2,550.00'$
 $SE = 0.07$
 DESIGN EXCEPTION
 REQUIRED SSD

I, James M. Gellenthin, 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 January 31, 2022 to March 9, 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 9th day of March, 2022.
James M. Gellenthin
 Professional Land Surveyor L-3860

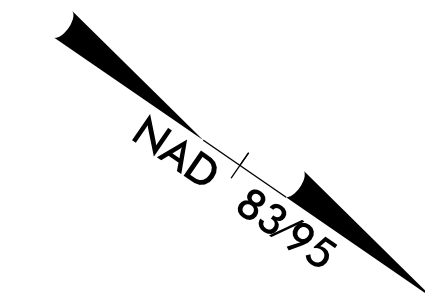




FOR -L- PROFILE SEE SHT 33
 FOR DITCH DETAILS SEE SHT. 2D-1 & 2D-2
 FOR BRIDGE SKETCH SEE SHT 2B-9
 FOR NBL STRUCTURE PLANS SEE SHTS S2R-1 THRU SR2-42
 FOR SBL STRUCTURE PLANS SEE SHTS S2L-1 THRU S2L-42

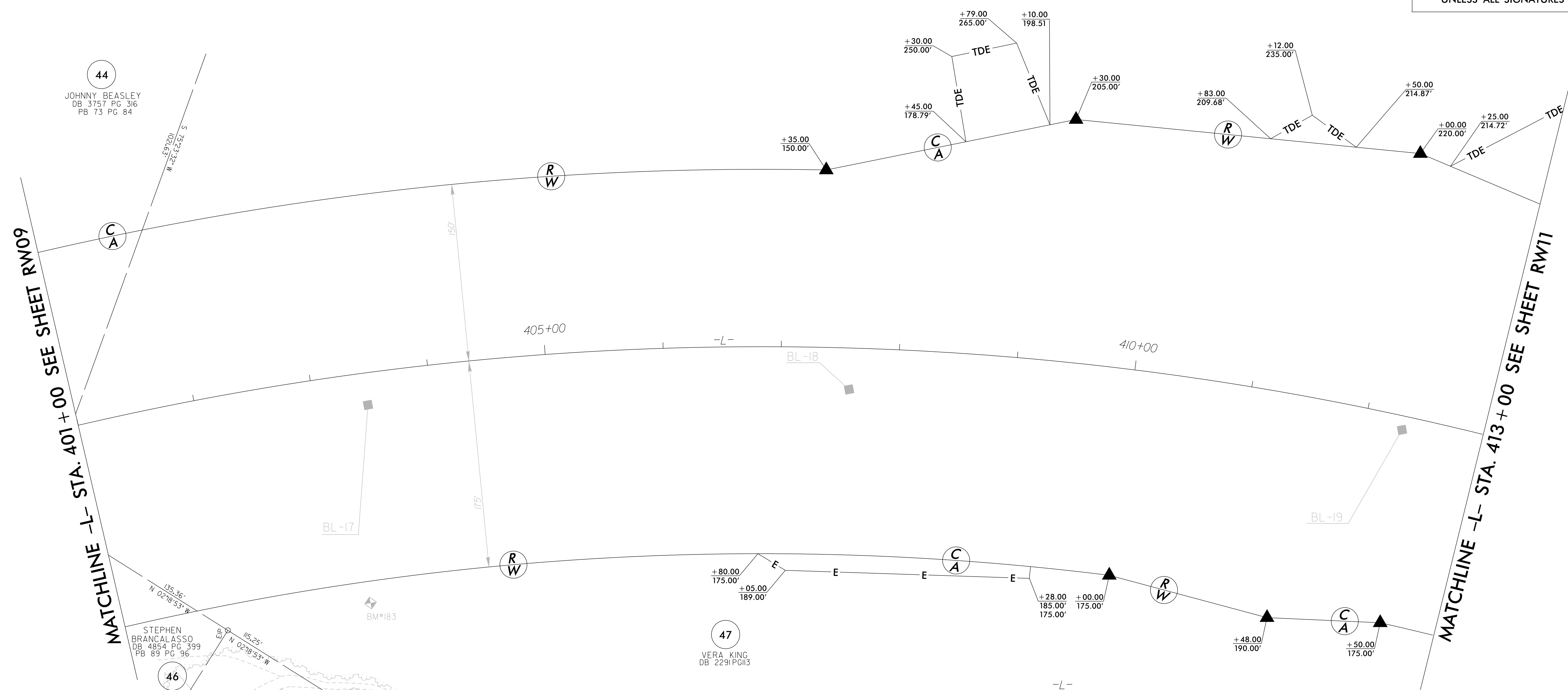
PRELIMINARY DRAWING FOR PROPOSED
 PEARTREE WEST DEVELOPMENT.
 PLAT HAS NOT BEEN RECORDED.

IS: MAR 2022 13:10
 M:\Projects\2519BA\Drawings\Drawings\U2519BA_1s_rw09.dgn
 KCI-D2K1893
 KCI-D2K1893

NOTE: SEE CROSS SECTIONS AND ROADWAY STD. DRAWINGS NO. 560.02 SHT. 1 OF 3 FOR SPECIAL MEDIAN GRADING. -L- STA. 402+00 TO STA. 404+00.



PROJECT REFERENCE NO. U-2519BA	SHEET NO. RW10
Location and Surveys	
 KCI Associates of N.C., P.A. 4505 Falls of Neuse Rd, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 http://www.kci.com	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	




-L-

PI Sta 404+50.03
 $\Delta = 74' 51'' 43.7''$ (RT)
 $D = 2' 14'' 48.8''$
 $L = 3,331.81'$
 $T = 1,951.81'$
 $R = 2,550.00'$
 $SE = 0.07$



I, James M. Gellenthin, 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 January 31, 2022 to March 9, 2022, and all coordinates are based on NAD83/2011; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

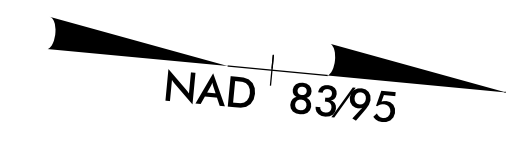
This 9th day of March, 2022.


 Professional Land Surveyor L-3860

- 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 JANUARY 2022 TO MARCH 2022.

IS: MAR 2022 13:22 N:\Projects\2519BA\Drawings\Drawings\U2519BA_1s_rw10.dgn
 KCI-0221893
 Matthew Koss

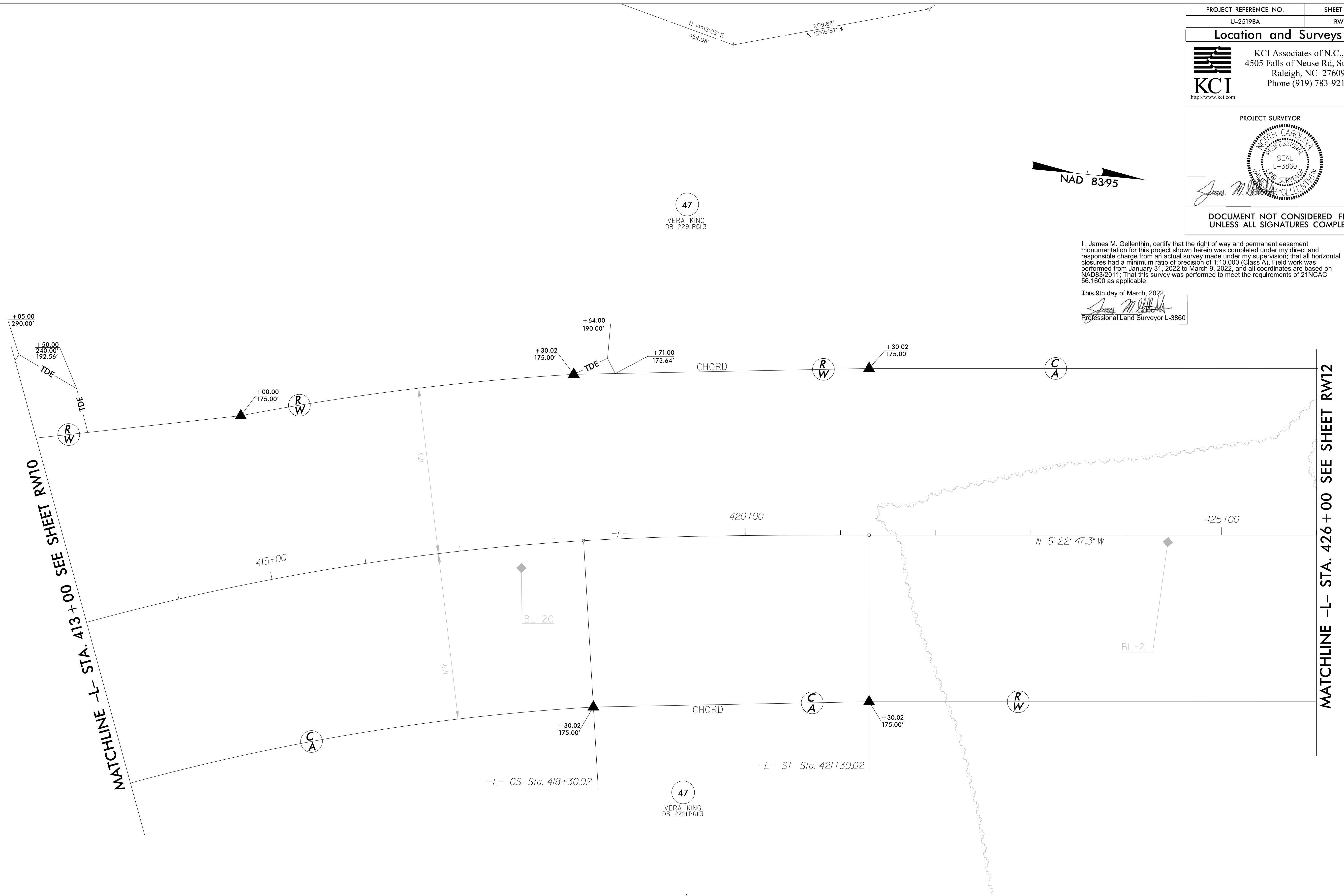
PROJECT REFERENCE NO.	SHEET NO.
U-2519BA	RW11
Location and Surveys	
 KCI Associates of N.C., P.A. 4505 Falls of Neuse Rd, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 http://www.kci.com	
PROJECT SURVEYOR	
 <i>James M. Gellenthin</i>	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



47
VERA KING
DB 2291PGI3

I, James M. Gellenthin, 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 January 31, 2022 to March 9, 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 9th day of March, 2022.
James M. Gellenthin
 Professional Land Surveyor L-3860



-L-

PI Sta. 404+50.03	PIs Sta. 419+30.05
$\Delta = 74^{\circ}51'43.7''$ (RT)	$\theta_s = 3^{\circ}22'13.2''$
$D = 2^{\circ}14'48.8''$	$L_s = 300.00'$
$L = 3,331.81'$	$LT = 200.04'$
$T = 1,951.81'$	$ST = 100.03'$
$R = 2,550.00'$	
$SE = 0.07$	


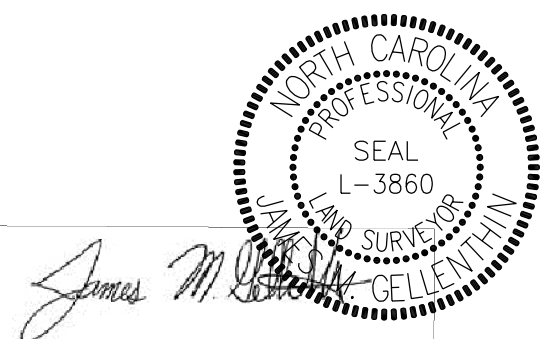
NOTES:

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 JANUARY 2022 TO MARCH 2022.

IS:MAR-2022_13:25
 W:\025\2519BA\Drawings\2519BA_RW_Staking\DRAWINGS\U2519BA_1s_rw11.dgn
 KCI-02K1893
 A1
 matthew.koss


MATCHLINE -L- STA. 413 + 00 SEE SHEET RW10

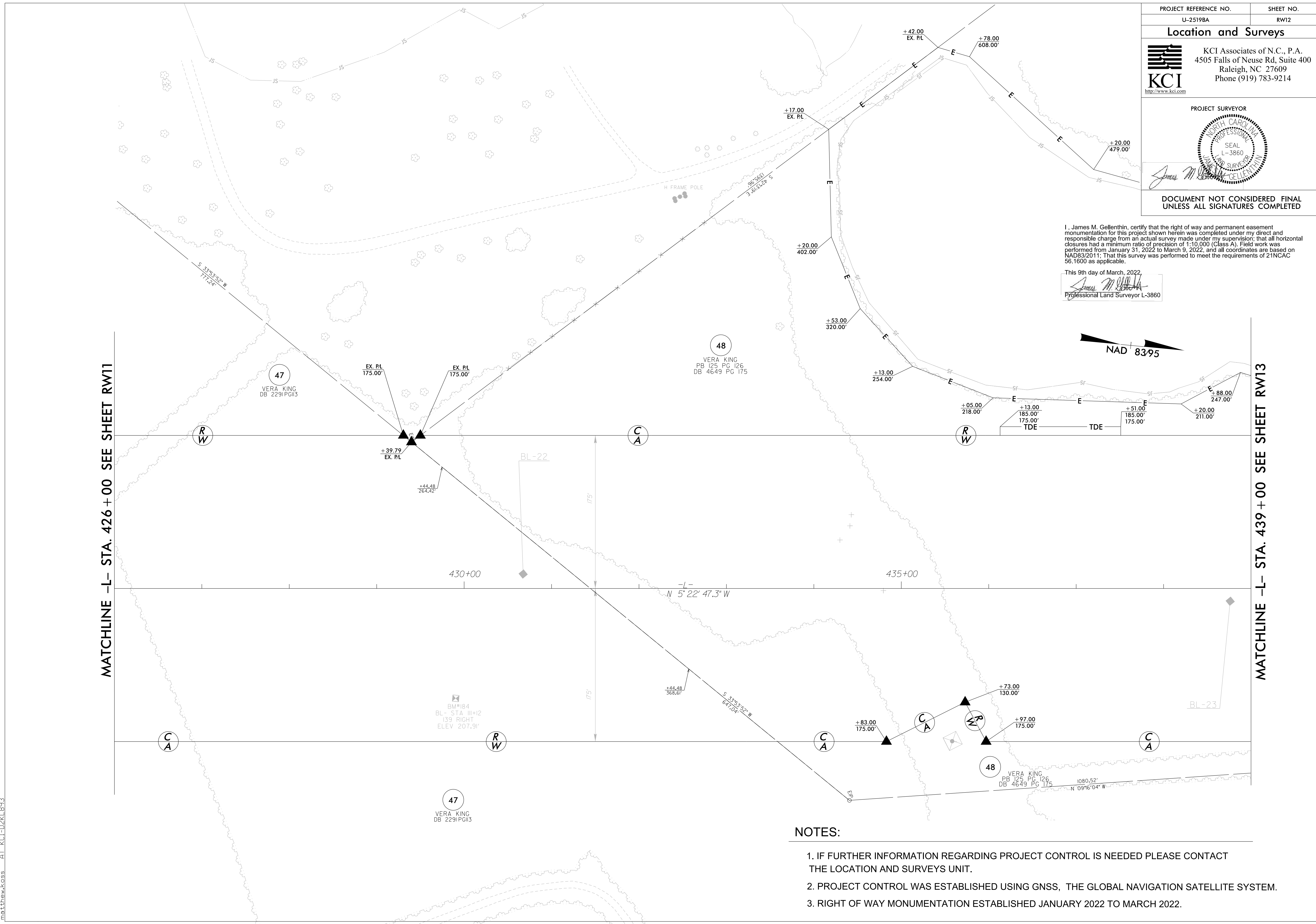
MATCHLINE -L- STA. 426 + 00 SEE SHEET RW12

PROJECT REFERENCE NO.	SHEET NO.
U-2519BA	RW12
Location and Surveys	
 KCI Associates of N.C., P.A. 4505 Falls of Neuse Rd, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 http://www.kci.com	
PROJECT SURVEYOR	
 James M. Gellenthin Professional Land Surveyor L-3860	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, James M. Gellenthin, 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 January 31, 2022 to March 9, 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 9th day of March, 2022


 Professional Land Surveyor L-3860




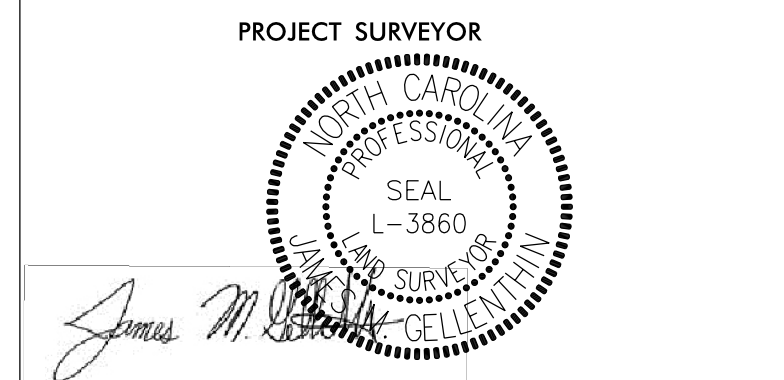
- NOTES:**
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
 2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
 3. RIGHT OF WAY MONUMENTATION ESTABLISHED JANUARY 2022 TO MARCH 2022.

IS: MAR 2022 13:41
 W:\025\2519BA\Drawings\U2519BA\RW\Staking\DRAWINGS\U2519BA_1s_rw12.dgn
 KCI-02519BA_1s_rw12.kci
 Matthew Koss

I, James M. Gellenthin, 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 January 31, 2022 to March 9, 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 9th day of March, 2022
James M. Gellenthin
Professional Land Surveyor L-3860

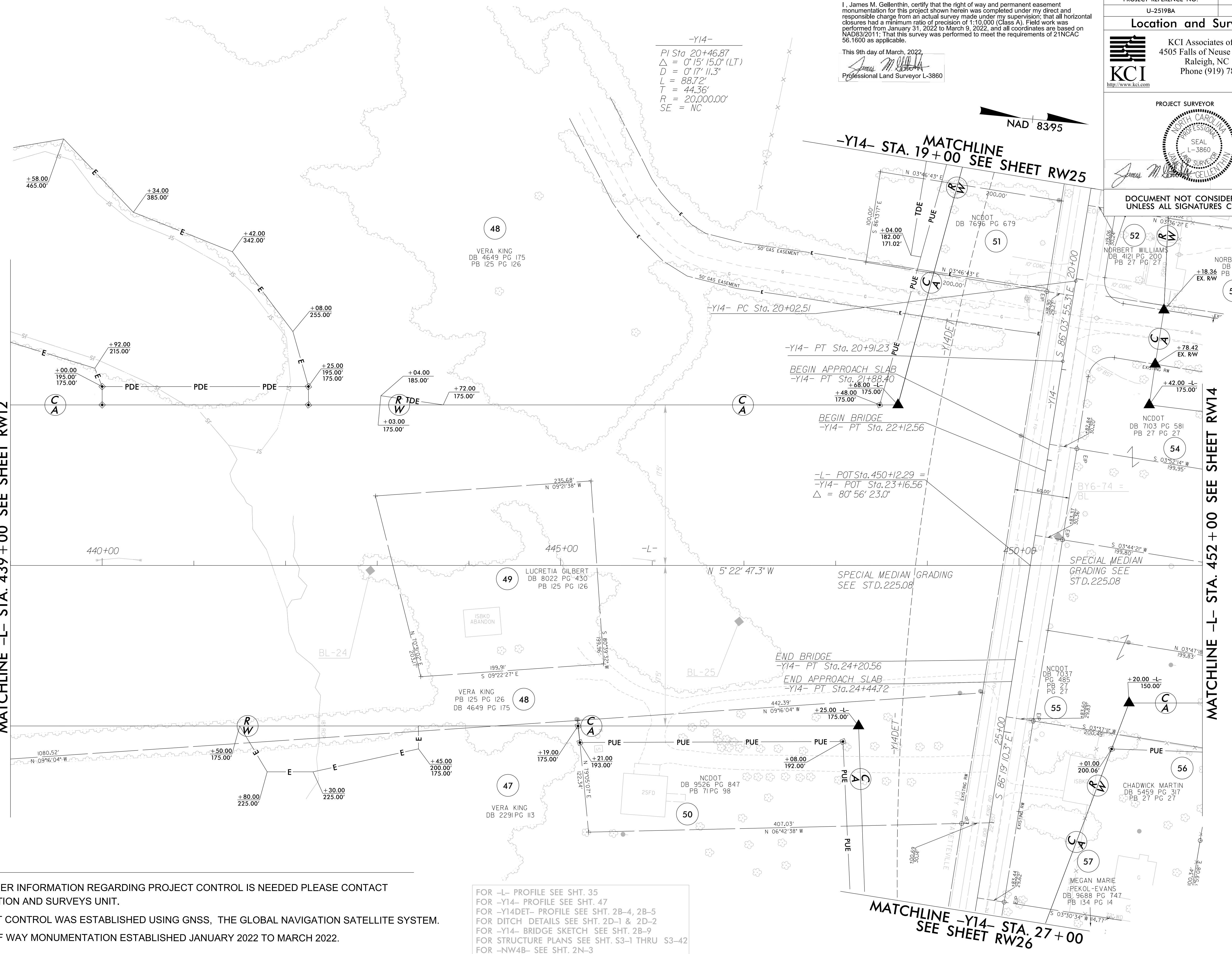
PROJECT REFERENCE NO.	SHEET NO.
U-2519BA	RW13
Location and Surveys	
	
KCI Associates of N.C., P.A. 4505 Falls of Neuse Rd, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 http://www.kci.com	



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MATCHLINE -L- STA. 439+00 SEE SHEET RW12

MATCHLINE -L- STA. 452+00 SEE SHEET RW14



-Y14-
 $PI\ Sta\ 20+46.87$
 $\Delta = 0^{\circ}15'15.0''\ (LT)$
 $D = 0^{\circ}17'11.3''$
 $L = 88.72'$
 $T = 44.36'$
 $R = 20,000.00'$
 $SE = NC$

NAD 83/95

MATCHLINE -Y14- STA. 19+00 SEE SHEET RW25

BEGIN APPROACH SLAB
-Y14- PT Sta. 21+88.40

BEGIN BRIDGE
-Y14- PT Sta. 22+12.56

-L- POT Sta. 450+12.29 =
-Y14- POT Sta. 23+16.56
 $\Delta = 80^{\circ}56'23.0''$

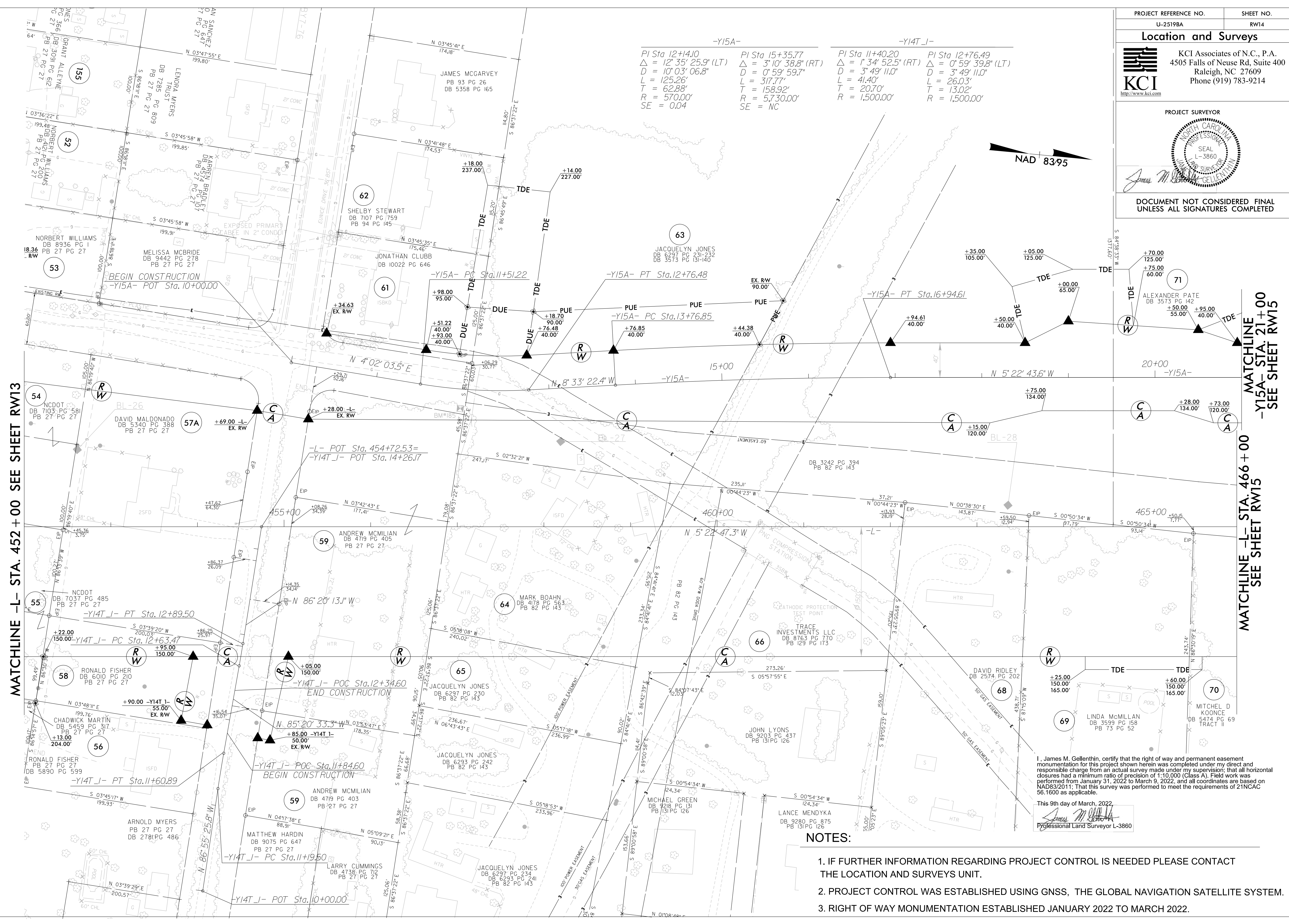
END BRIDGE
-Y14- PT Sta. 24+20.56
END APPROACH SLAB
-Y14- PT Sta. 24+44.72

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 JANUARY 2022 TO MARCH 2022.

FOR -L- PROFILE SEE SHT. 35
 FOR -Y14- PROFILE SEE SHT. 47
 FOR -Y14DET- PROFILE SEE SHT. 2B-4, 2B-5
 FOR DITCH DETAILS SEE SHT. 2D-1 & 2D-2
 FOR -Y14- BRIDGE SKETCH SEE SHT. 2B-9
 FOR STRUCTURE PLANS SEE SHT. S3-1 THRU S3-42
 FOR -NW4B- SEE SHT. 2N-3

MATCHLINE -Y14- STA. 27+00 SEE SHEET RW26

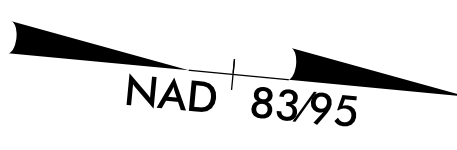


-Y15A-

PI Sta 12+14.0	PI Sta 15+35.77
Δ = 12° 35' 25.9" (LT)	Δ = 3° 10' 38.8" (RT)
D = 10° 03' 06.8"	D = 0° 59' 59.7"
L = 125.26'	L = 317.77'
T = 62.88'	T = 158.92'
R = 570.00'	R = 5,730.00'
SE = 0.04	SE = NC

-Y14T J-

PI Sta 11+40.20	PI Sta 12+76.49
Δ = 1° 34' 52.5" (RT)	Δ = 0° 59' 39.8" (LT)
D = 3° 49' 11.0"	D = 3° 49' 11.0"
L = 41.40'	L = 26.03'
T = 20.70'	T = 13.02'
R = 1,500.00'	R = 1,500.00'



MATCHLINE -L- STA. 452 + 00 SEE SHEET RW13


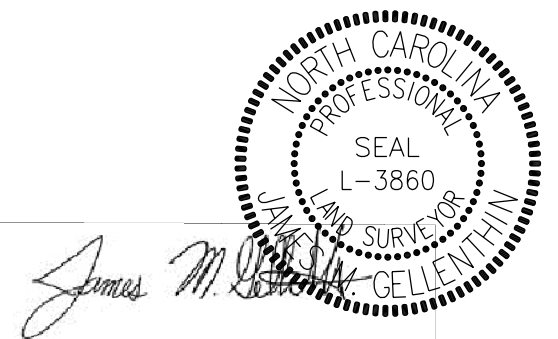
MATCHLINE -L- STA. 466 + 00
-Y15A- STA. 21 + 00
SEE SHEET RW15

I, James M. Gellenthin, 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 January 31, 2022 to March 9, 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 9th day of March, 2022.

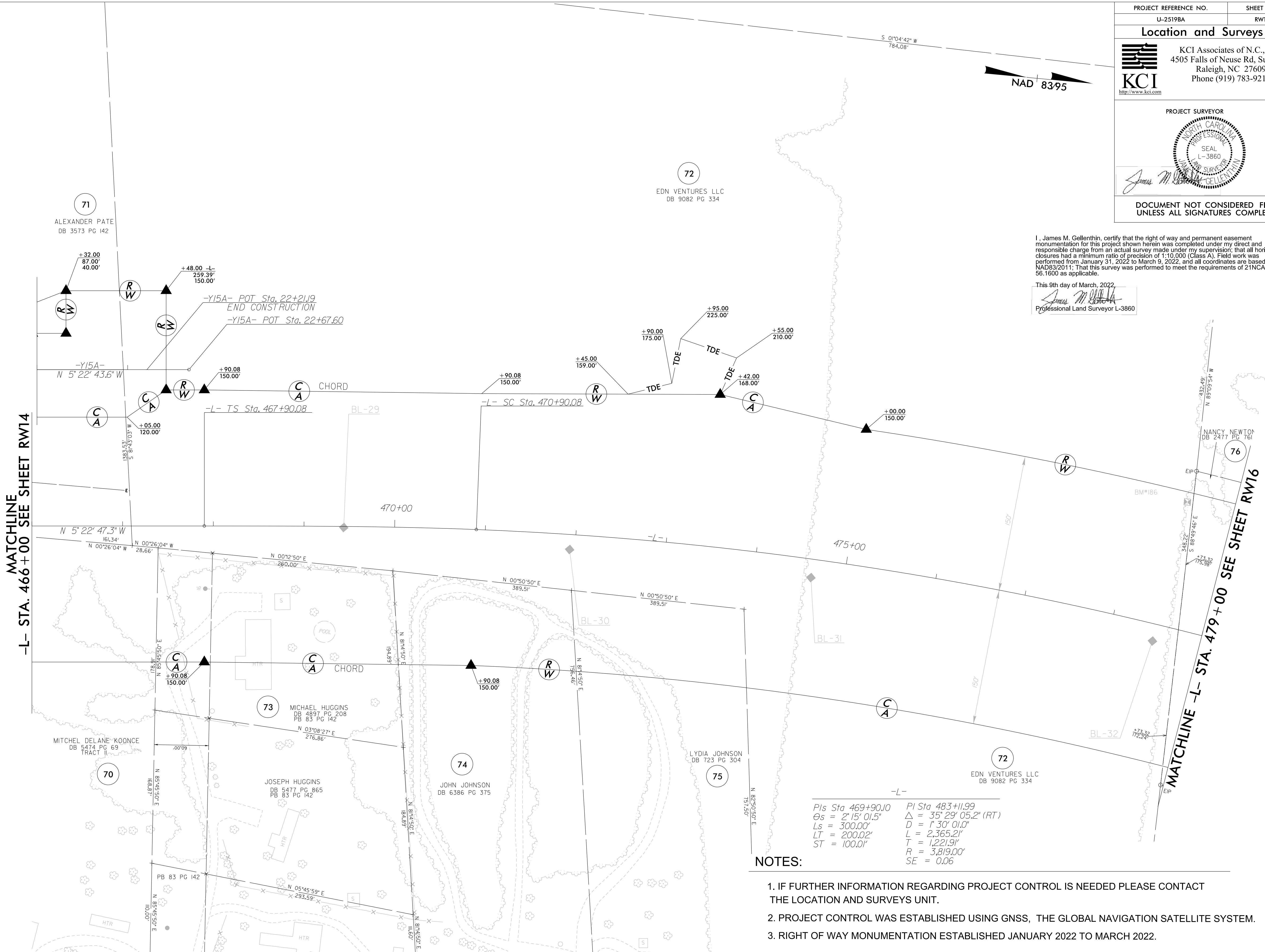
James M. Gellenthin
Professional Land Surveyor L-3860

- 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 JANUARY 2022 TO MARCH 2022.

PROJECT REFERENCE NO.	SHEET NO.
U-2519BA	RW15
Location and Surveys	
 KCI Associates of N.C., P.A. 4505 Falls of Neuse Rd, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 http://www.kci.com	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, James M. Cellenthin, 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 January 31, 2022 to March 9, 2022, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.


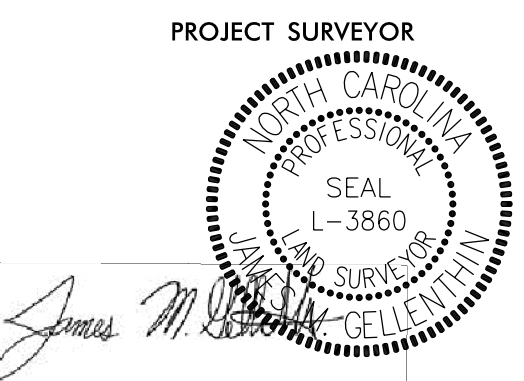
This 9th day of March, 2022

 Professional Land Surveyor L-3860



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 JANUARY 2022 TO MARCH 2022.

15-MAR-2022 13:54
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 KCI-D2K1893
 ma.thew.koss

PROJECT REFERENCE NO.	SHEET NO.
U-2519BA	RW16
Location and Surveys	
	KCI Associates of N.C., P.A. 4505 Falls of Neuse Rd, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 http://www.kci.com
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



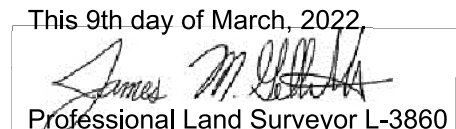
-L-

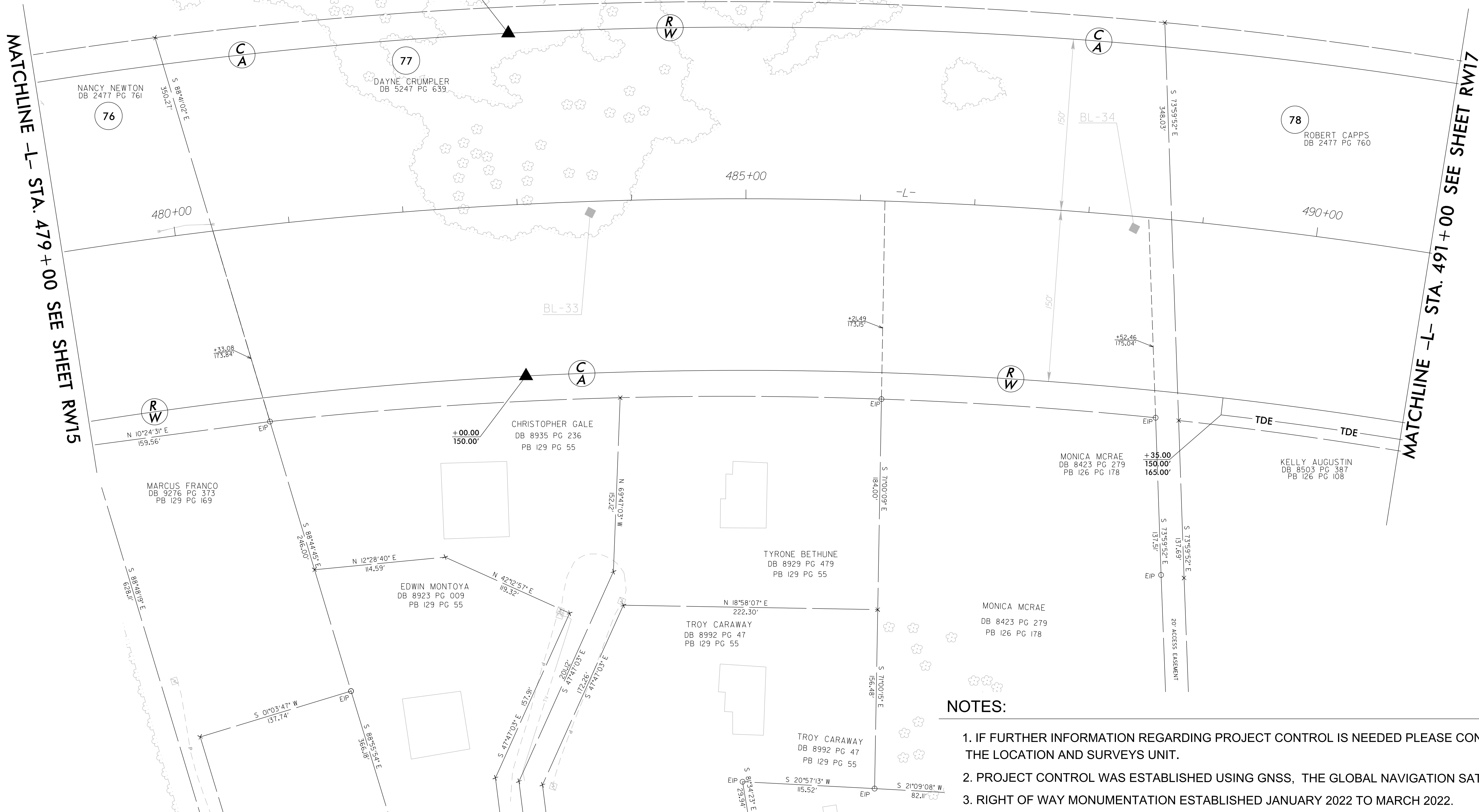
PI Sta. 483+11.99
 $\Delta = 35^{\circ} 29' 05.2''$ (RT)
 $D = 1^{\circ} 30' 01.0''$
 $L = 2,365.21'$
 $T = 1,221.91'$
 $R = 3,819.00'$
 $SE = 0.06$

FLOYD PROPERTIES
AND DEVELOPMENT, INC
DB 8794 PG 246
PB 134 PG 177

I, James M. Gellenthin, 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 January 31, 2022 to March 9, 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 9th day of March, 2022.


Professional Land Surveyor L-3860

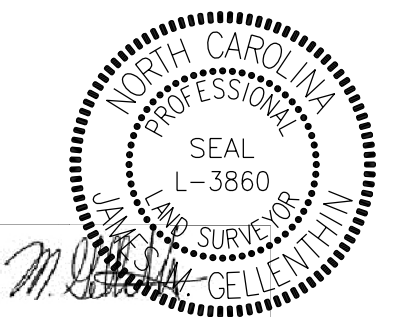


- NOTES:**
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
 2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
 3. RIGHT OF WAY MONUMENTATION ESTABLISHED JANUARY 2022 TO MARCH 2022.

P:\MAR-2022_08\026 NCDD1 Surveys\U-2519BA RW Stationing\DRAWINGS\U2519BA-1s-rw16.dgn
 KCI-02\KLI893
 Matthew Koss

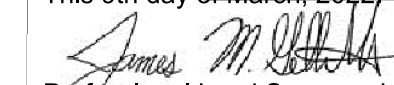
Location and Surveys

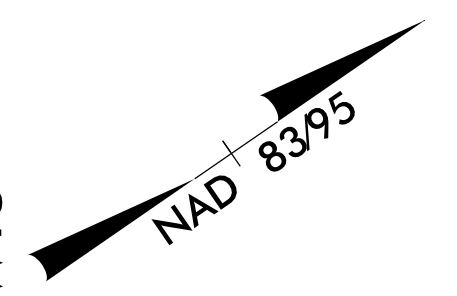
KCI
 KCI Associates of N.C., P.A.
 4505 Falls of Neuse Rd, Suite 400
 Raleigh, NC 27609
 Phone (919) 783-9214
<http://www.kci.com>

PROJECT SURVEYOR

 James M. Gellenthin

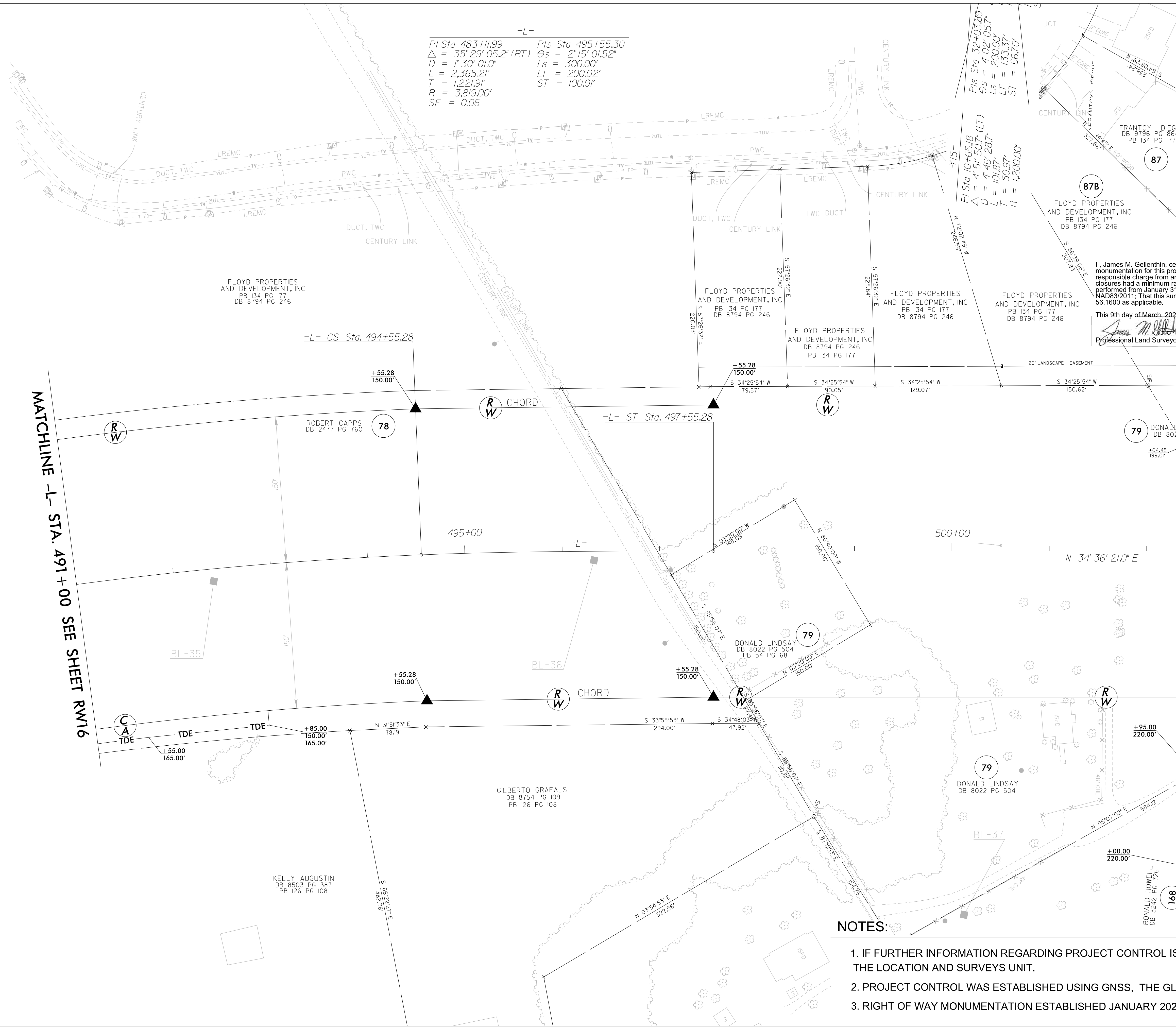
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, James M. Gellenthin, 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 January 31, 2022 to March 9, 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 9th day of March, 2022

 Professional Land Surveyor L-3860



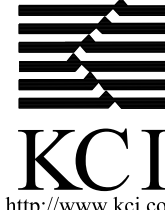
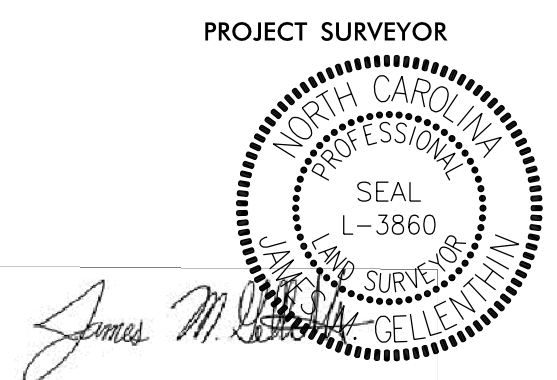
-L-
 Pls Sta 483+11.99 Pls Sta 495+55.30
 $\Delta = 35^{\circ}29'05.2''$ (RT) $\Theta_s = 2^{\circ}15'01.52''$
 $D = 1^{\circ}30'01.0''$ $L_s = 300.00'$
 $L = 2,365.21'$ $LT = 200.02'$
 $T = 1,221.91'$ $ST = 100.01'$
 $R = 3,819.00'$
 $SE = 0.06$



MATCHLINE -L- STA. 491 + 00 SEE SHEET RW16

MATCHLINE -L- STA. 503 + 00 SEE SHEET RW18

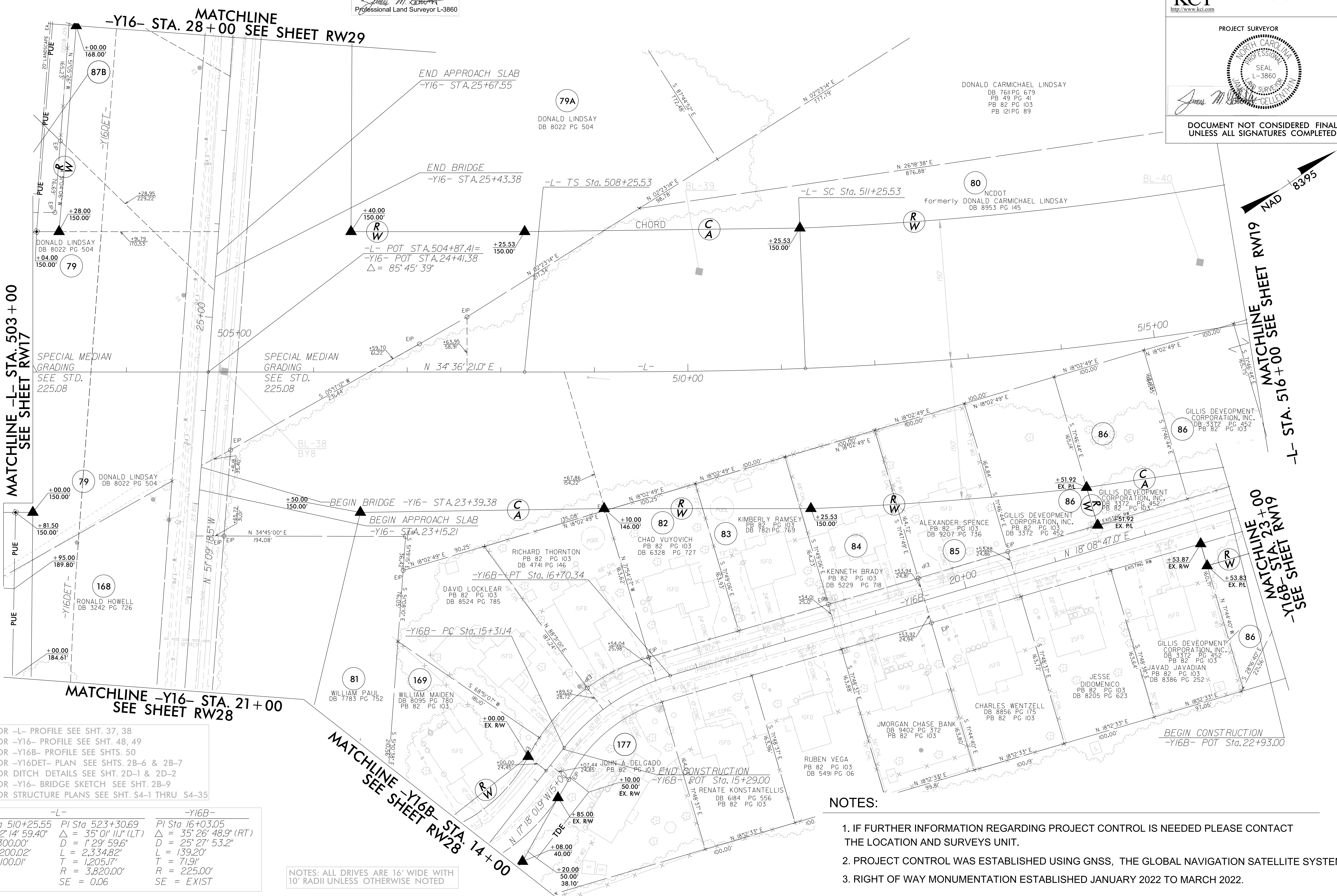
- NOTES:
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
 2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
 3. RIGHT OF WAY MONUMENTATION ESTABLISHED JANUARY 2022 TO MARCH 2022.

PROJECT REFERENCE NO. U-2519BA	SHEET NO. RW18
Location and Surveys	
 KCI Associates of N.C., P.A. 4505 Falls of Neuse Rd, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 http://www.kci.com	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, James M. Gellenthin, 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 January 31, 2022 to March 9, 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 9th day of March, 2022

James M. Gellenthin
Professional Land Surveyor L-3860



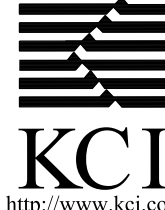
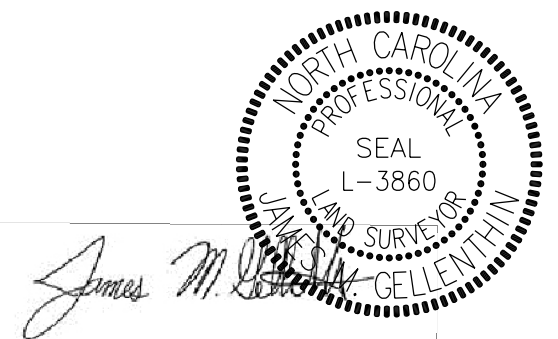
- FOR -L- PROFILE SEE SHT. 37, 38
- FOR -Y16- PROFILE SEE SHT. 48, 49
- FOR -Y16B- PROFILE SEE SHTS. 50
- FOR -Y16DET- PLAN SEE SHTS. 2B-6 & 2B-7
- FOR DITCH DETAILS SEE SHT. 2D-1 & 2D-2
- FOR -Y16- BRIDGE SKETCH SEE SHT. 2B-9
- FOR STRUCTURE PLANS SEE SHT. S4-1 THRU S4-35

-L-		-Y16B-	
Pi Sta 510+25.55	Pi Sta 523+30.69	Pi Sta 16+03.05	
Os = 2'14" 59.40"	D = 1'29" 59.6"	Δ = 35'01" 11.8" (LT)	
Ls = 300.00'	L = 2,334.82'	D = 25' 27" 53.2"	
LT = 200.02'	T = 1,205.17'	L = 139.20'	
ST = 100.01'	R = 3,820.00'	T = 71.9'	
	SE = 0.06	R = 225.00'	
		SE = EXIST	

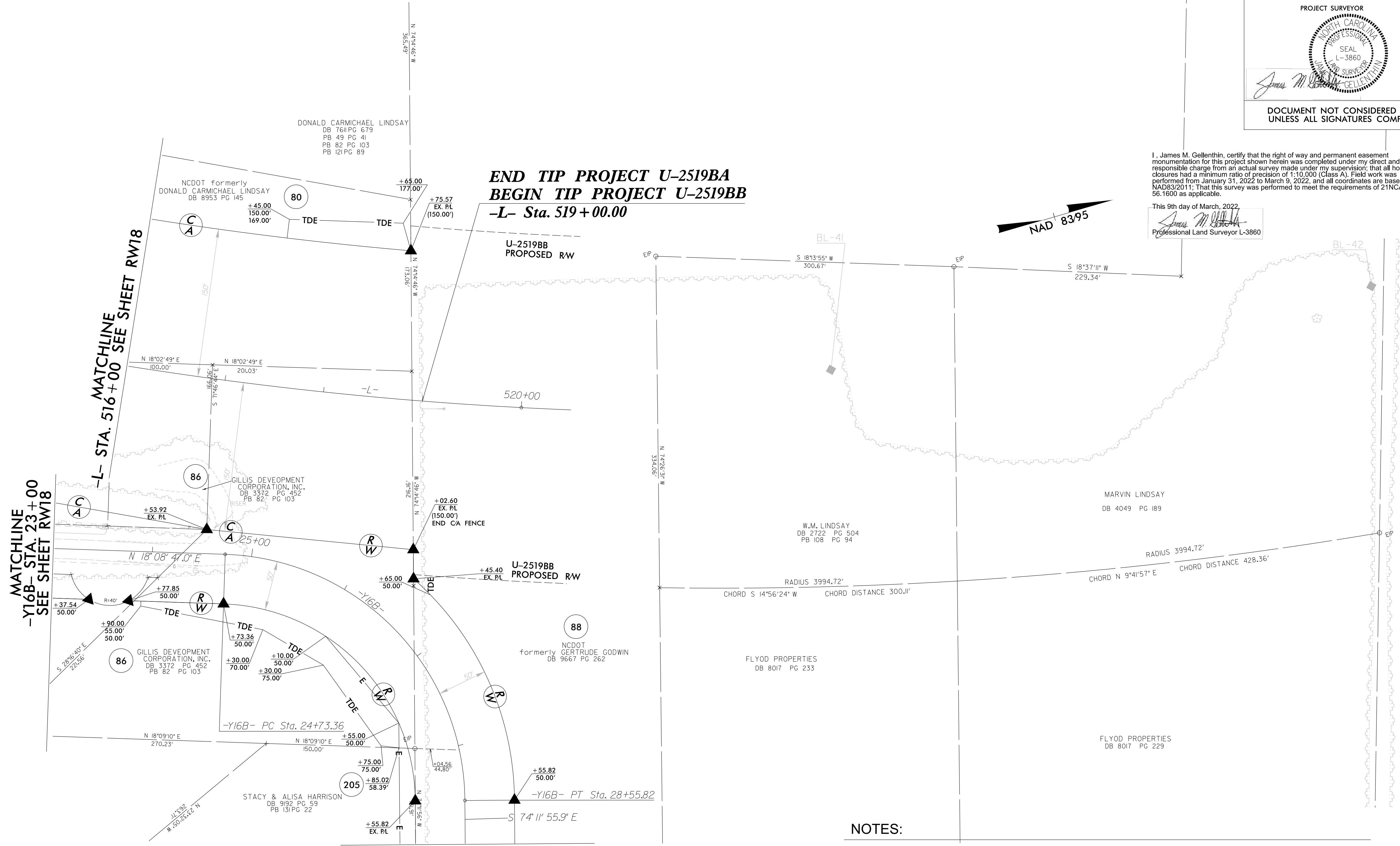
NOTES: ALL DRIVES ARE 16' WIDE WITH 10' RADII UNLESS OTHERWISE NOTED

- 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 JANUARY 2022 TO MARCH 2022.

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 mathew.koss

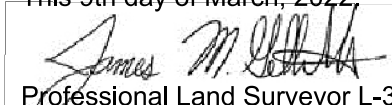
PROJECT REFERENCE NO.	SHEET NO.
U-2519BA	RW19
Location and Surveys	
 KCI Associates of N.C., P.A. 4505 Falls of Neuse Rd, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 http://www.kci.com	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

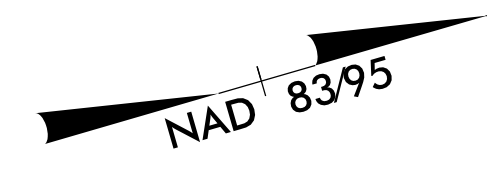
-L-	-Y16B-
PI Sta 523+30.69	PI Sta 27+13.33
$\Delta = 35^{\circ}01'11''$ (LT)	$\Delta = 87^{\circ}39'17''$ (RT)
D = 1'29'59.6"	D = 22'55'05.9"
L = 2,334.82'	L = 382.47'
T = 1,205.17'	T = 239.97'
R = 3,820.00'	R = 250.00'
SE = 0.06	SE = 0.04



**END TIP PROJECT U-2519BA
BEGIN TIP PROJECT U-2519BB
-L- Sta. 519 +00.00**

I, James M. Gellenthin, 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 January 31, 2022 to March 9, 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 9th day of March, 2022,

 Professional Land Surveyor L-3860


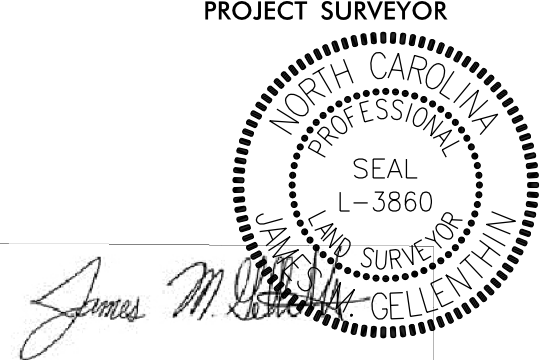


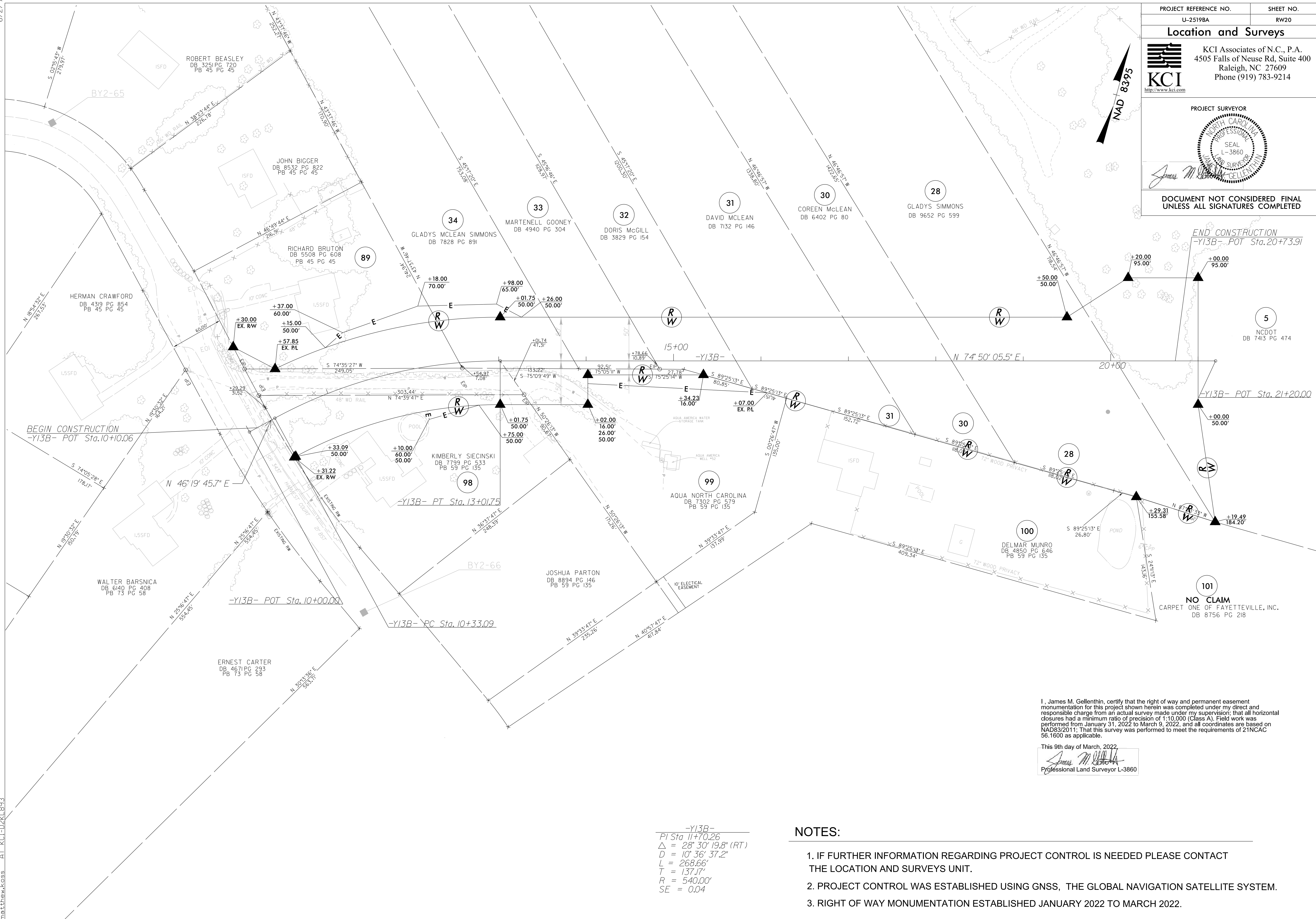
NOTES:

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 JANUARY 2022 TO MARCH 2022.

IS: MAR 2022 14:30
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 matchew.koss

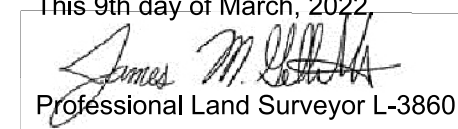
6/2/09

PROJECT REFERENCE NO. U-2519BA	SHEET NO. RW20
Location and Surveys	
 KCI KCI Associates of N.C., P.A. 4505 Falls of Neuse Rd, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 http://www.kci.com	
PROJECT SURVEYOR	
 JAMES M. GELLENTHIN PROFESSIONAL LAND SURVEYOR L-3860	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



I:\MAR-2022\1474\1474_2519BA\Drawings\U2519BA_1s_rw20.dgn
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 KCI-022166
 NCDOT Survey\A u2519BA RW Steaking\DRAWINGS\U2519BA_1s_rw20.dgn
 Matthew Koss

I, James M. Gellenthin, 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 January 31, 2022 to March 9, 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 9th day of March, 2022

 Professional Land Surveyor L-3860

-Y13B-
 PI Sta 11+70.26
 $\Delta = 28^{\circ} 30' 19.8''$ (RT)
 $D = 10' 36' 37.2''$
 $L = 268.66'$
 $T = 137.77'$
 $R = 540.00'$
 $SE = 0.04$

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 JANUARY 2022 TO MARCH 2022.

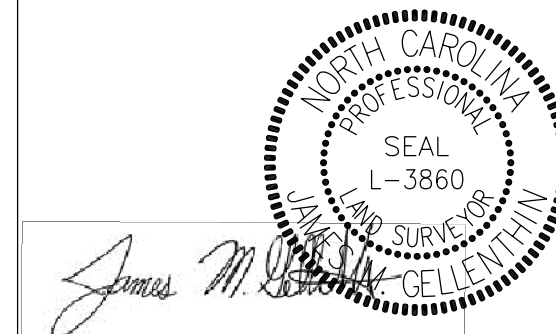
6/2/19

Location and Surveys



KCI Associates of N.C., P.A.
 4505 Falls of Neuse Rd, Suite 400
 Raleigh, NC 27609
 Phone (919) 783-9214
<http://www.kci.com>

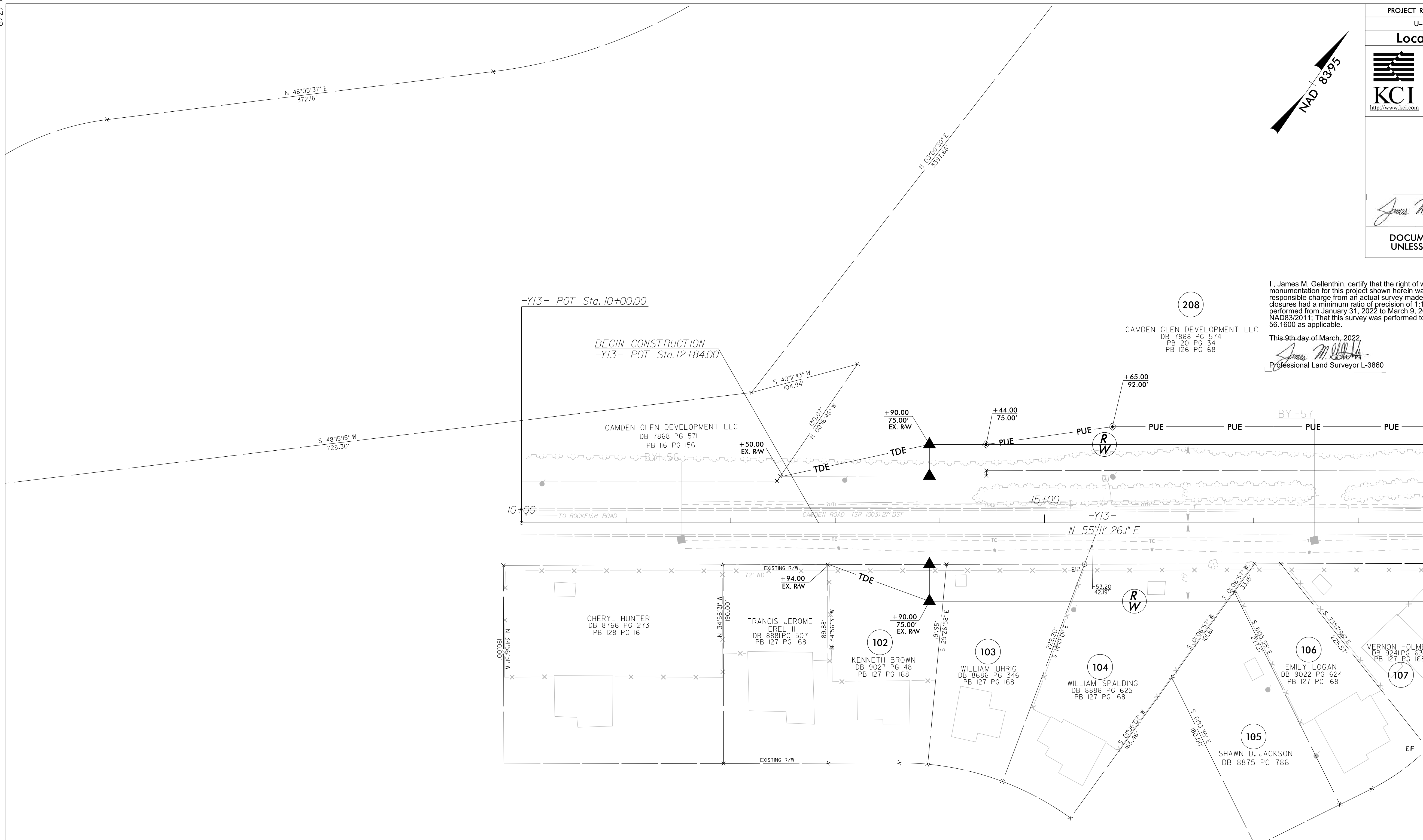
PROJECT SURVEYOR



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, James M. Gellenthin, 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 January 31, 2022 to March 9, 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 9th day of March, 2022,
James M. Gellenthin
 Professional Land Surveyor L-3860



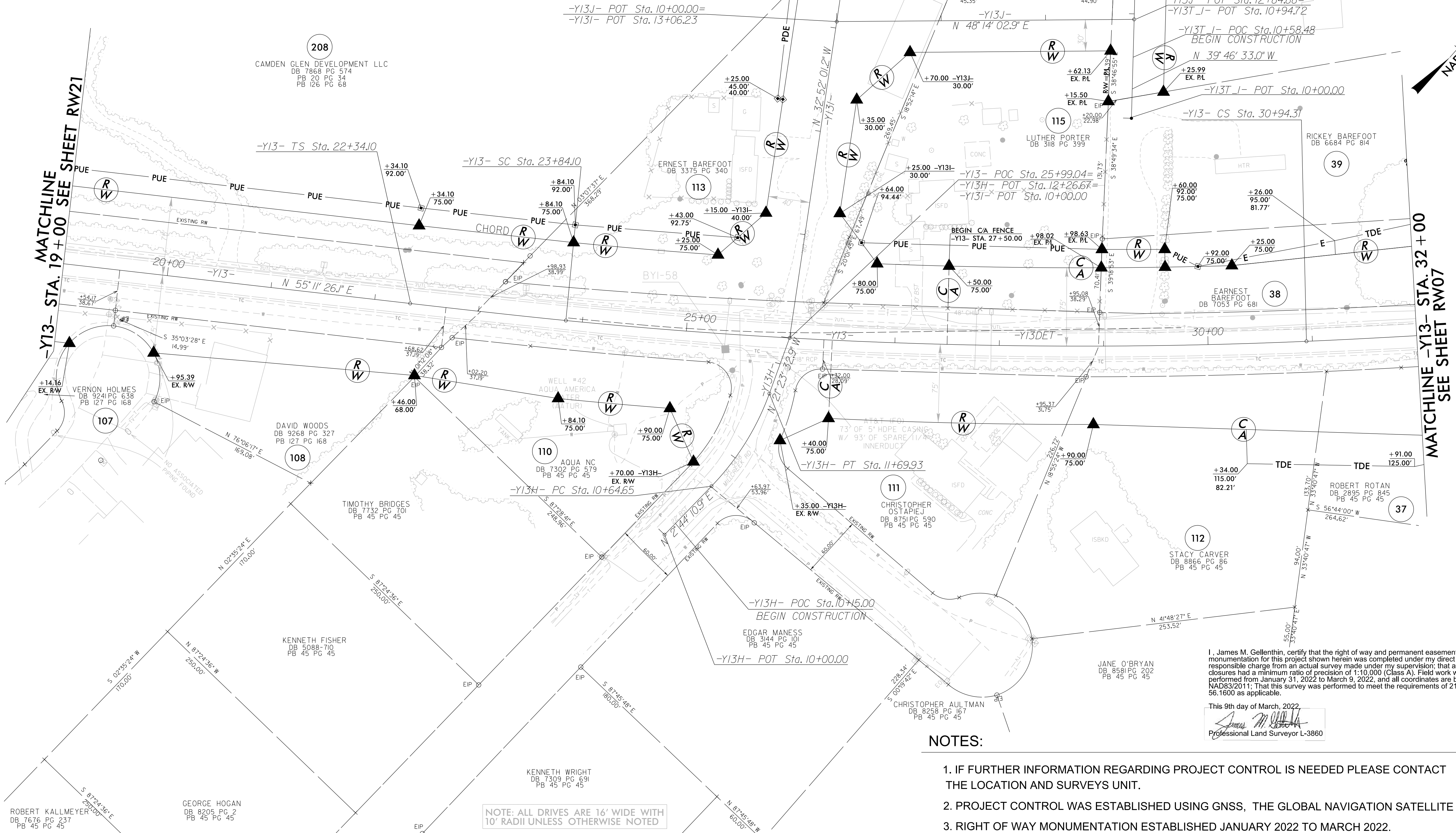
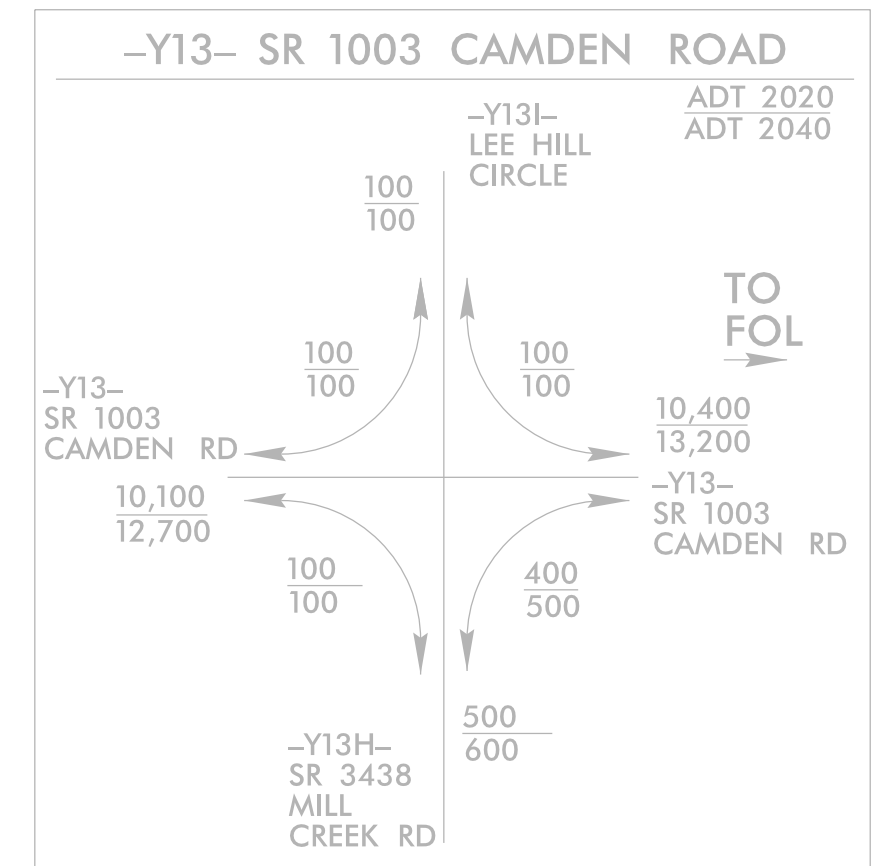
MATCHLINE -Y13- STA. 19 + 00 SEE SHEET RW22

NOTES:

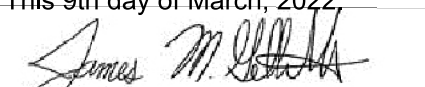
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED JANUARY 2022 TO MARCH 2022.

IS: MAR 2022 14:36
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 AT KCI-022K1893
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 Matthew Koss

-Y13-		-Y13H-	
Pls Sta 23+34.10	PI Sta 27+39.80	Pls Sta 31+44.31	PI Sta 11+18.08
$\Delta s = 0^{\circ} 51' 34.0''$	$\Delta = 8^{\circ} 08' 18.2''$ (LT)	$\Delta s = 0^{\circ} 51' 34.0''$	$\Delta = 24^{\circ} 07' 43.8''$ (LT)
$Ls = 150.00'$	$D = 1^{\circ} 08' 45.3''$	$Ls = 150.00'$	$D = 22^{\circ} 55' 05.9''$
$LT = 100.00'$	$T = 710.21'$	$LT = 100.00'$	$L = 105.28'$
$ST = 50.00'$	$R = 355.70'$	$ST = 50.00'$	$T = 53.43'$
	$SE = 5,000.00'$		$R = 250.00'$
			$SE = SEE PLANS$



I, James M. Gellenlin, 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 January 31, 2022 to March 9, 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 9th day of March, 2022

 Professional Land Surveyor L-3860

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 JANUARY 2022 TO MARCH 2022.

NOTE: ALL DRIVES ARE 16' WIDE WITH 10' RADII UNLESS OTHERWISE NOTED

IS: MAR 2022 14:41
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 Matthew.koss


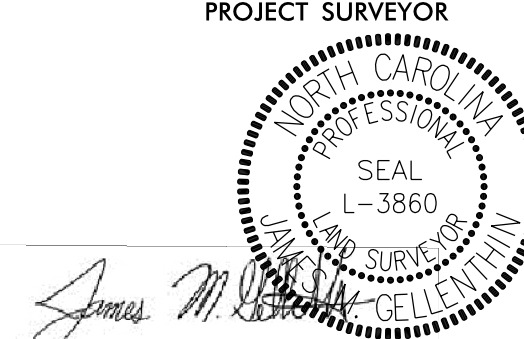
NOTES:

- 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 JANUARY 2022 TO MARCH 2022.

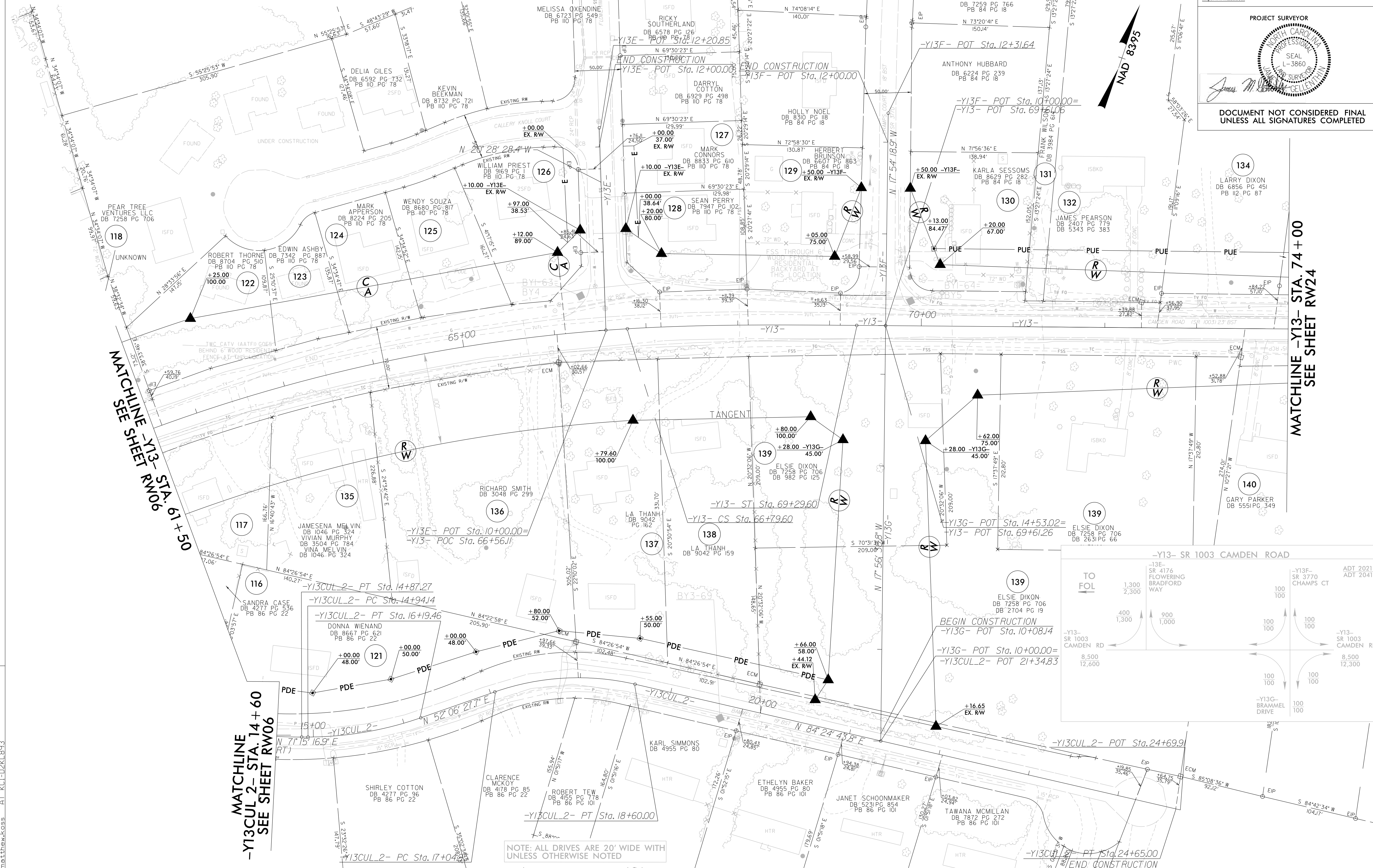
I, James M. Gellenthin, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision, that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from January 31, 2022 to March 9, 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 9th day of March, 2022
James M. Gellenthin
 Professional Land Surveyor L-3860

JAMES HOUSER
 DB 7259 PG 766
 PB 84 PG 18

PROJECT REFERENCE NO. U-2519BA	SHEET NO. RW23
Location and Surveys	
 KCI Associates of N.C., P.A. 4505 Falls of Neuse Rd, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 http://www.kci.com	
PROJECT SURVEYOR  <i>James M. Gellenthin</i> DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS

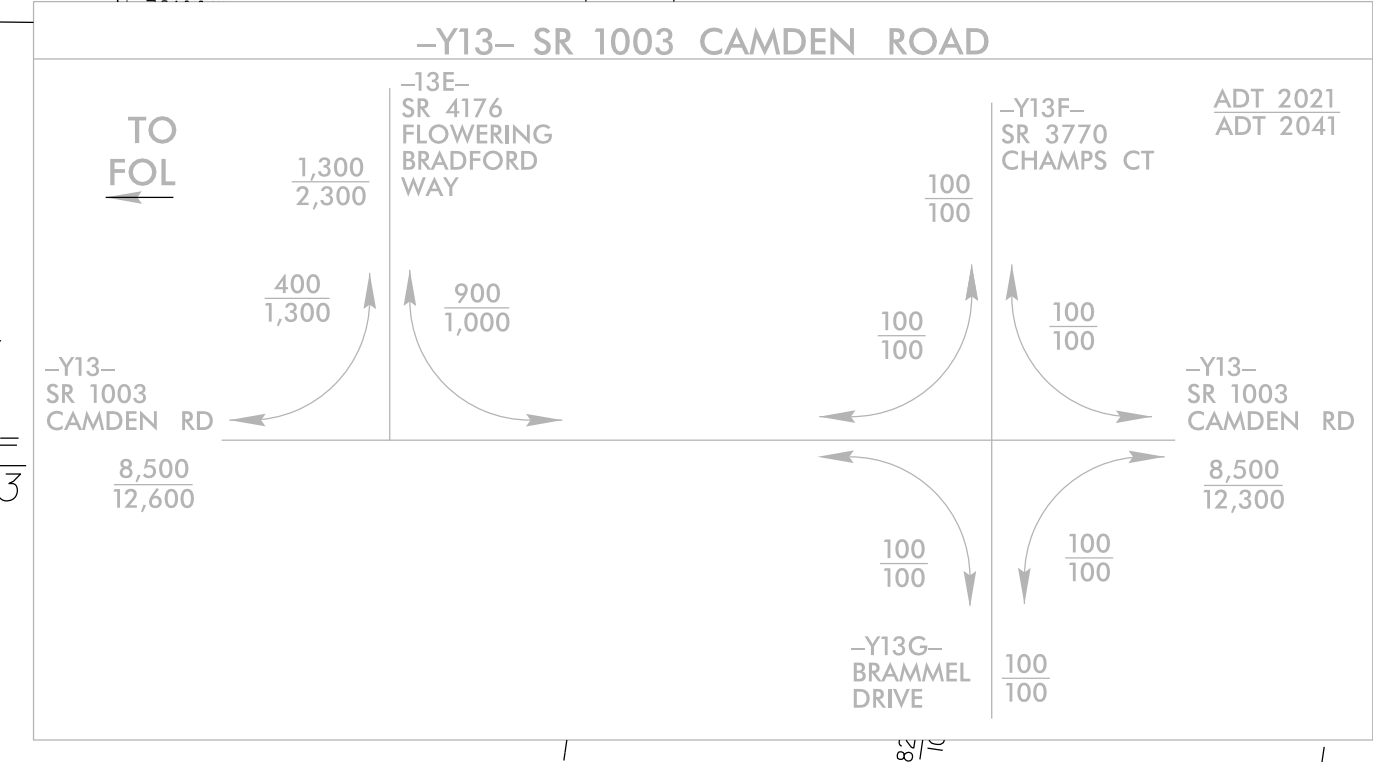


MATCHLINE SEE SHEET RW06
 -Y13- STA. 91+50

MATCHLINE
 -Y13CUL 2- STA. 14+60
 SEE SHEET RW06

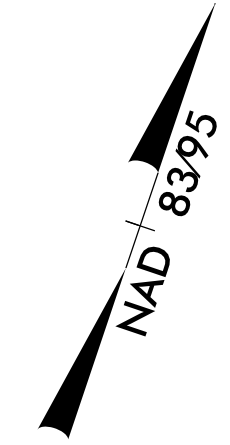
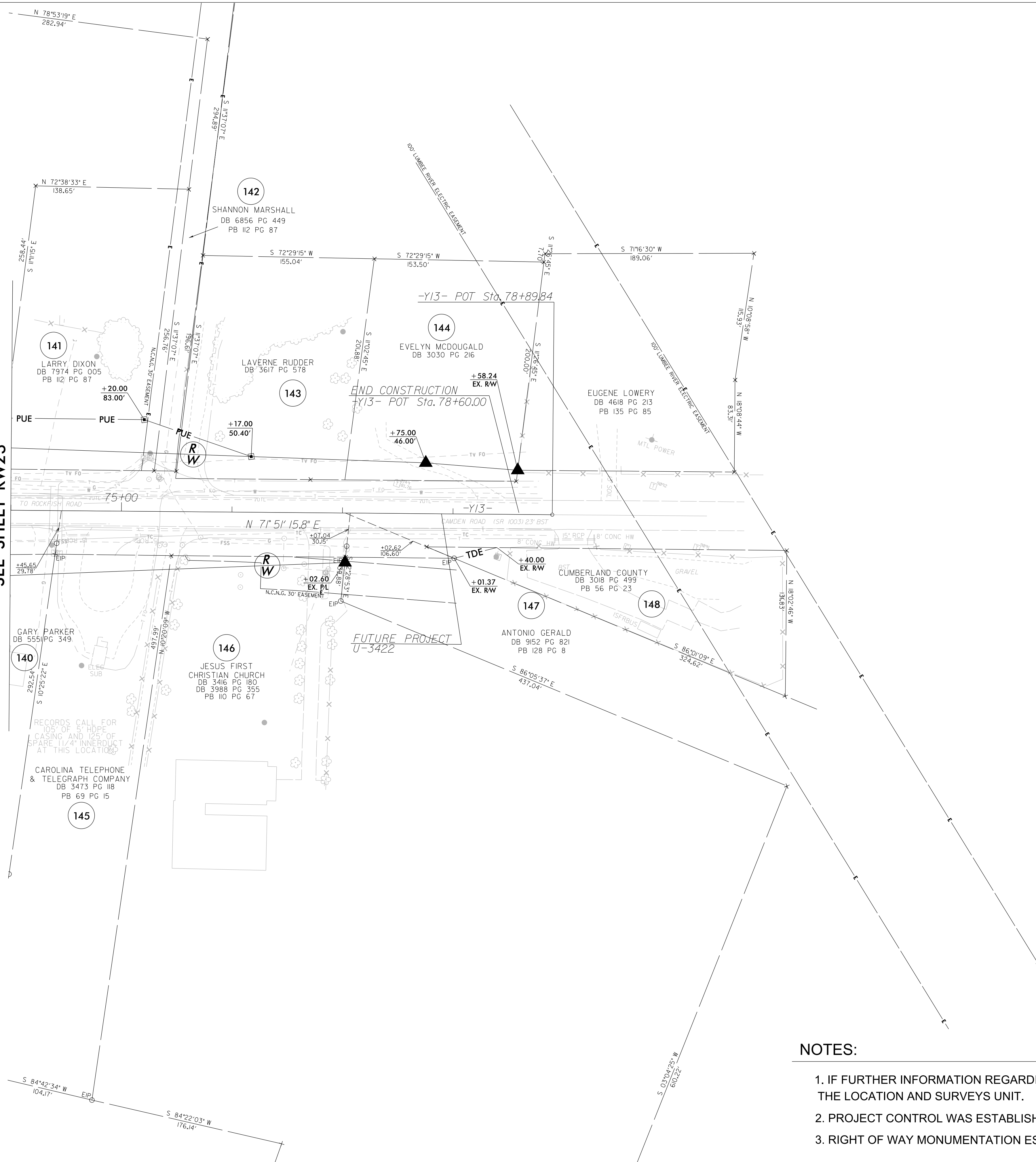
MATCHLINE -Y13- STA. 74+00
 SEE SHEET RW24


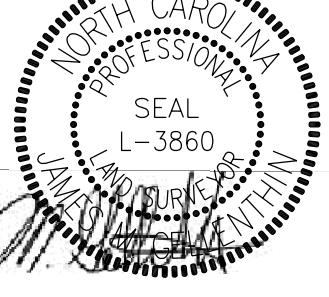
NOTE: ALL DRIVES ARE 20' WIDE WITH UNLESS OTHERWISE NOTED



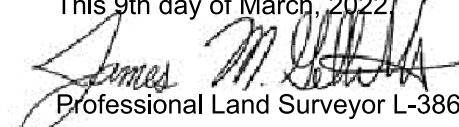
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 KCI-D2K1.893
 mathew.koss

MATCHLINE -Y13- STA. 74+00
SEE SHEET RW23



PROJECT REFERENCE NO. U-2519BA	SHEET NO. RW24
Location and Surveys	
 KCI Associates of N.C., P.A. 4505 Falls of Neuse Rd, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 http://www.kci.com	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, James M. Gellenthin, 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 January 31, 2022 to March 9, 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 9th day of March, 2022

 Professional Land Surveyor L-3860

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 JANUARY 2022 TO MARCH 2022.

KCI Associates of N.C., P.A.
4505 Falls of Neuse Rd, Suite 400
Raleigh, NC 27609
Phone (919) 783-9214
<http://www.kci.com>

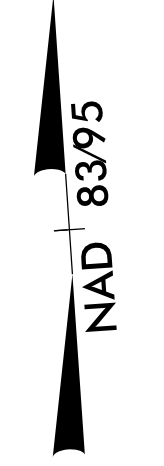
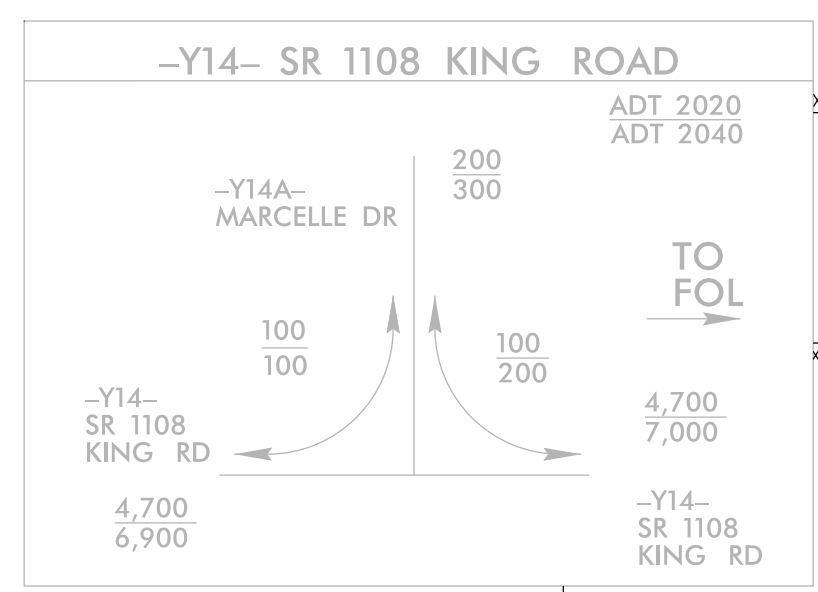
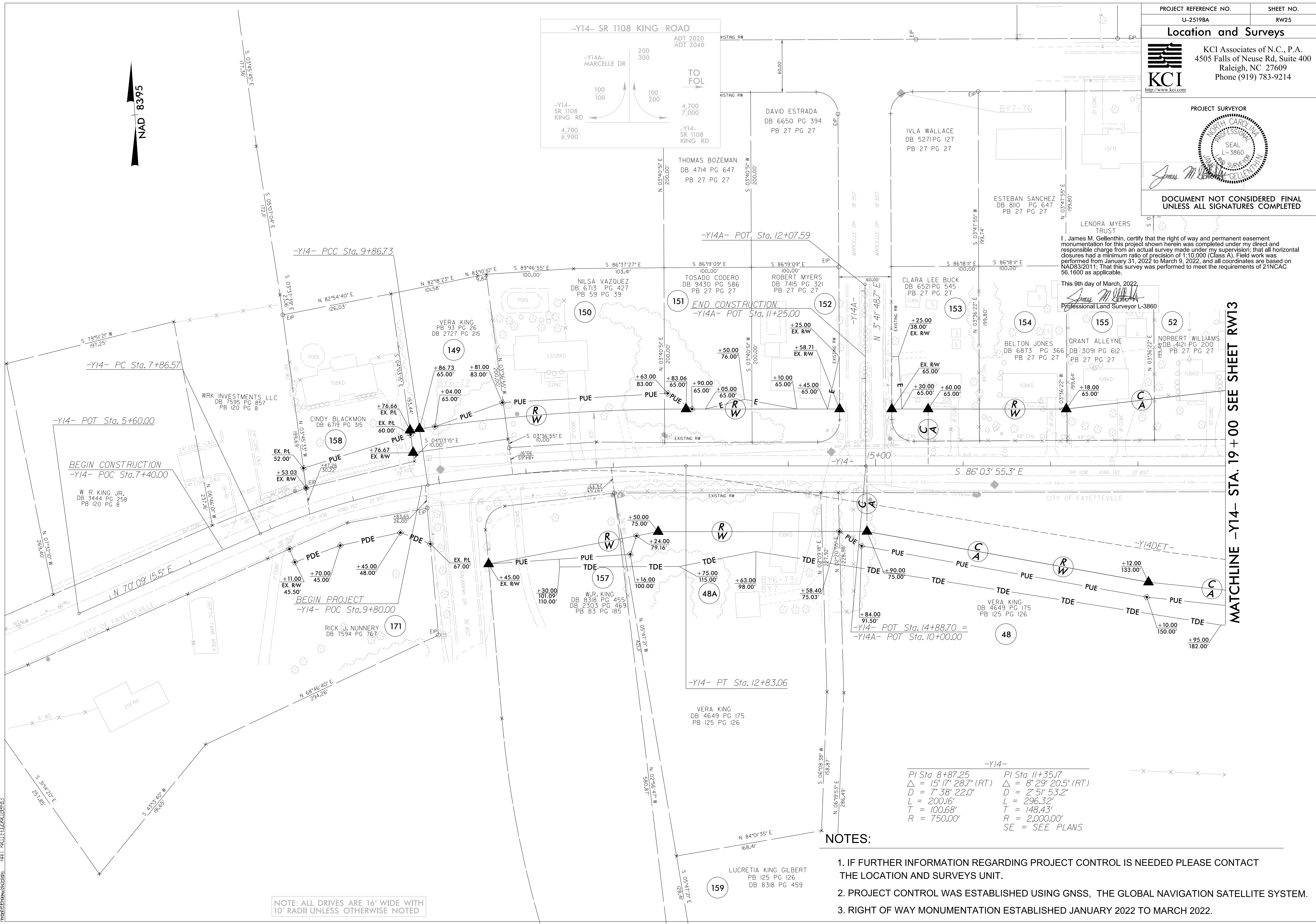
PROJECT SURVEYOR
Professional Land Surveyor L-3860
Seal: JAMES M. GELLENTHIN
NORTH CAROLINA PROFESSIONAL LAND SURVEYORS SEAL L-3860

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

I, James M. Gellenthin, 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 January 31, 2022 to March 9, 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 9th day of March, 2022.
James M. Gellenthin
Professional Land Surveyor L-3860

MATCHLINE -Y14- STA. 19+00 SEE SHEET RW13




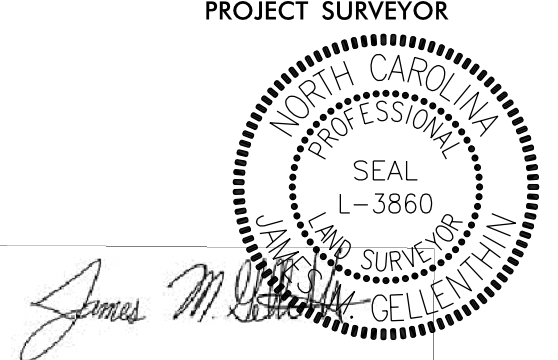
-Y14-

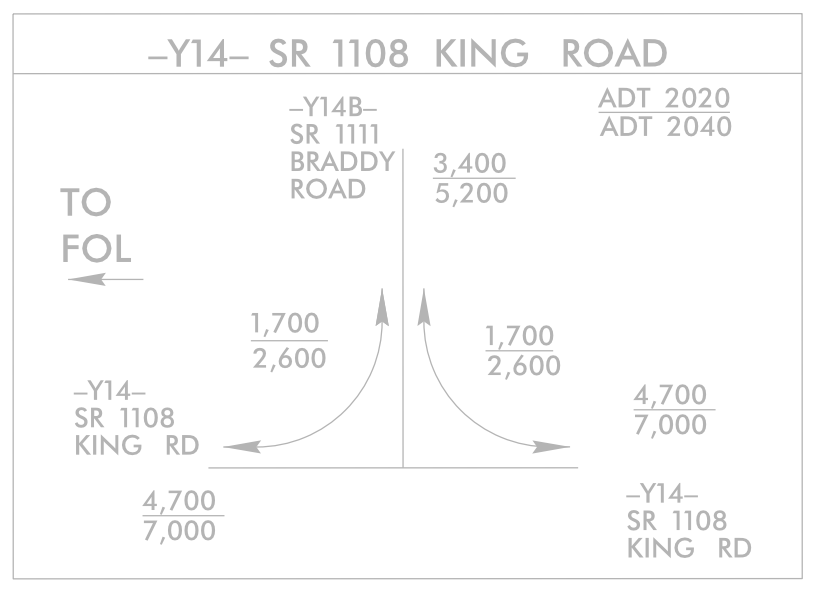
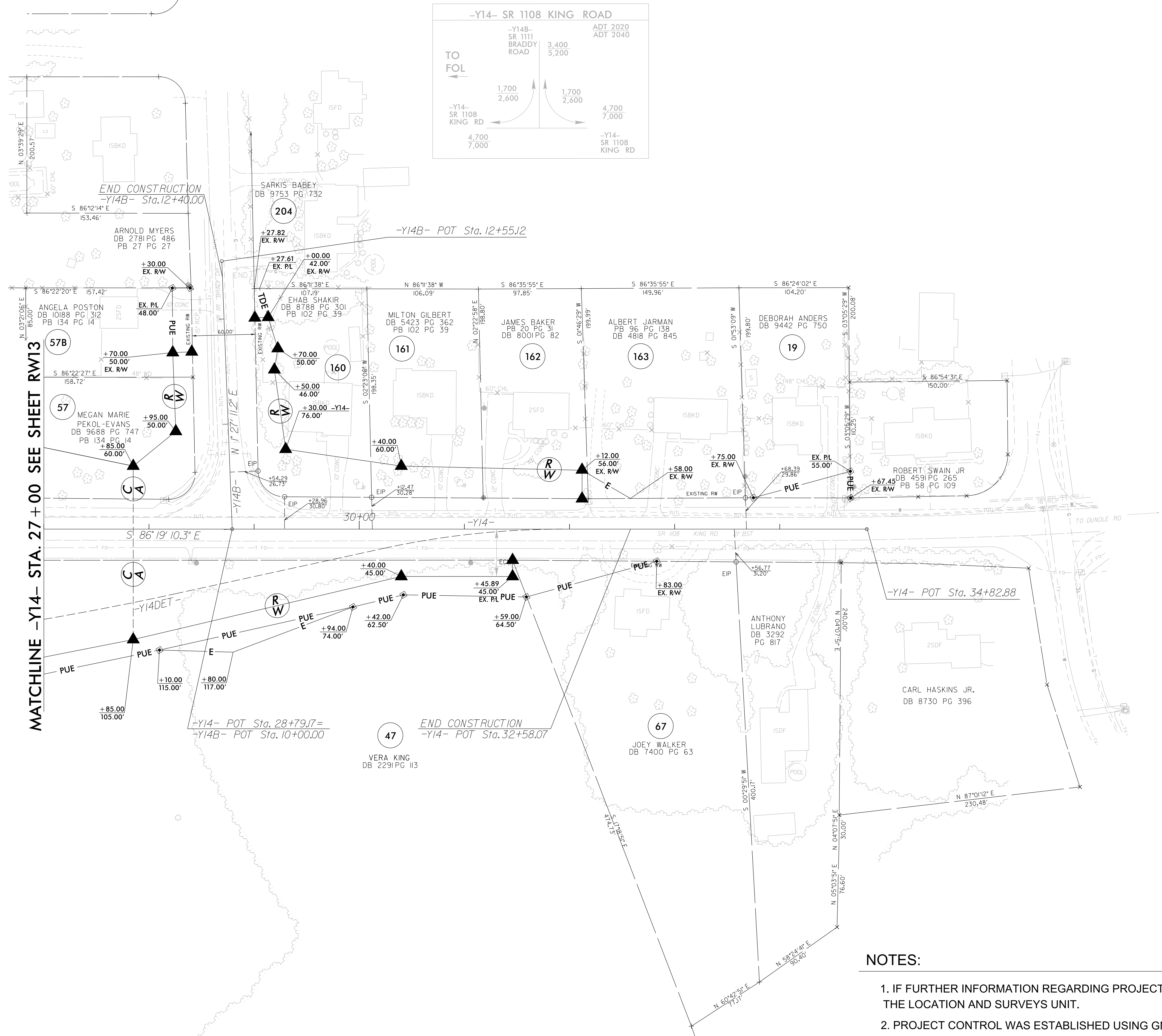
PI Sta 8+87.25	PI Sta 11+35.17
Δ = 15° 17' 28.7" (RT)	Δ = 8° 29' 20.5" (RT)
D = 7' 38" 22.0"	D = 2' 51" 53.2"
L = 200.16'	L = 296.32'
T = 100.68'	T = 148.43'
R = 750.00'	R = 2,000.00'
	SE = SEE PLANS

- 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 JANUARY 2022 TO MARCH 2022.

NOTE: ALL DRIVES ARE 16' WIDE WITH 10' RADII UNLESS OTHERWISE NOTED

21-MAR-2022 10:02 AM
KCI Associates of N.C., P.A. U-2519BA RW25
SURVEYOR: JAMES M. GELLENTHIN
PROJECT SURVEYOR: JAMES M. GELLENTHIN
SCALE: AS SHOWN

PROJECT REFERENCE NO.	SHEET NO.
U-2519BA	RW26
Location and Surveys	
 KCI Associates of N.C., P.A. 4505 Falls of Neuse Rd, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 http://www.kci.com	
PROJECT SURVEYOR	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



I, James M. Gellenthin, 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 January 31, 2022 to March 9, 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 9th day of March, 2022
 James M. Gellenthin
 Professional Land Surveyor L-3860

- NOTES:**
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 3. RIGHT OF WAY MONUMENTATION ESTABLISHED JANUARY 2022 TO MARCH 2022.

NOTE: ALL DRIVES ARE 16' WIDE WITH 10' RADII UNLESS OTHERWISE NOTED