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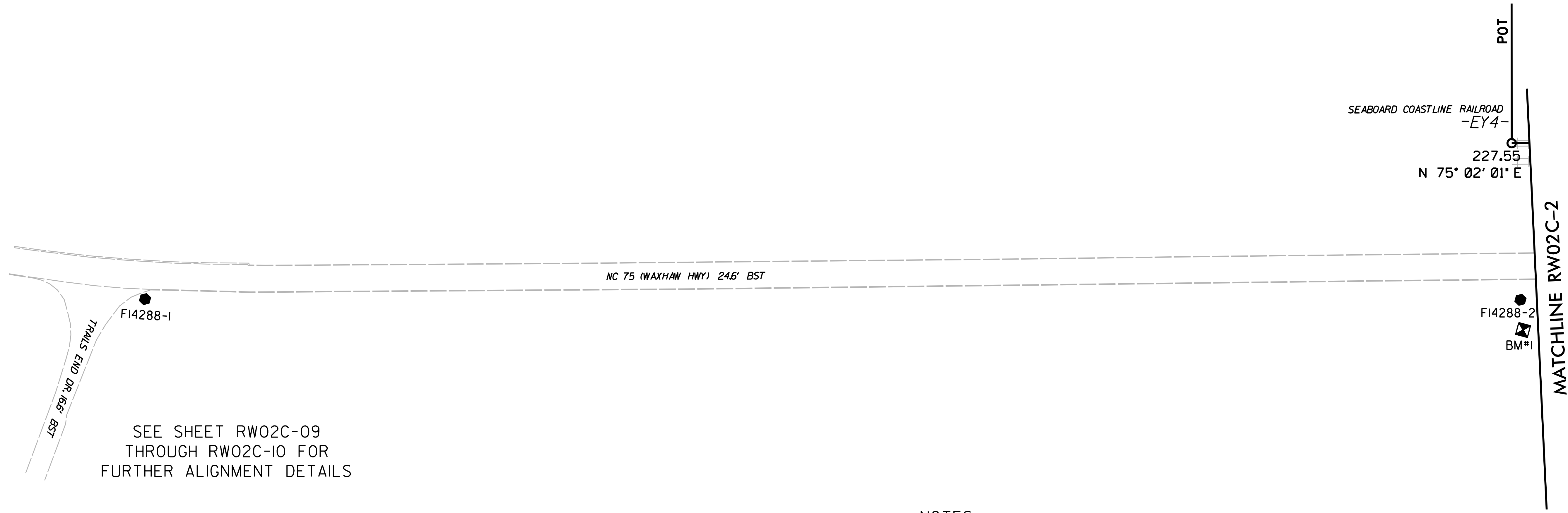
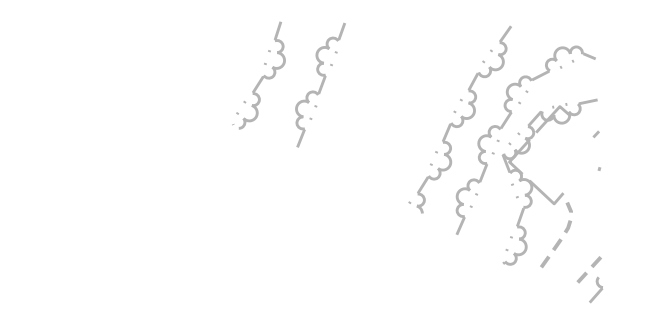
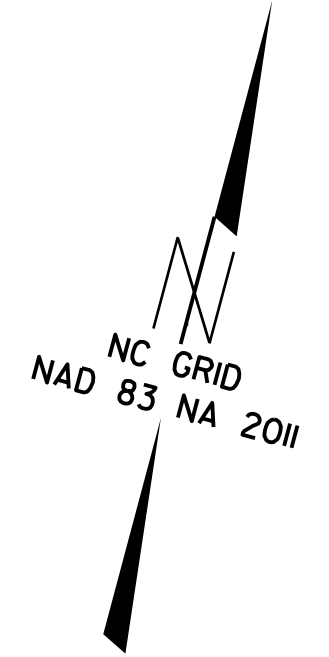
**This file or an individual page  
shall not be considered a certified document.**

PROJECT REFERENCE NO.	SHEET NO.
F-14288	RW02C-1
Location and Surveys	
	
<small>2801 YORKMONT RD., SUITE 100 CHARLOTTE, NC 28208 704-357-8600</small>	

# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

MATCHLINE RW02C-5



SEE SHEET RW02C-09  
THROUGH RW02C-10 FOR  
FURTHER ALIGNMENT DETAILS

**NOTES:**

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

REVISIONS

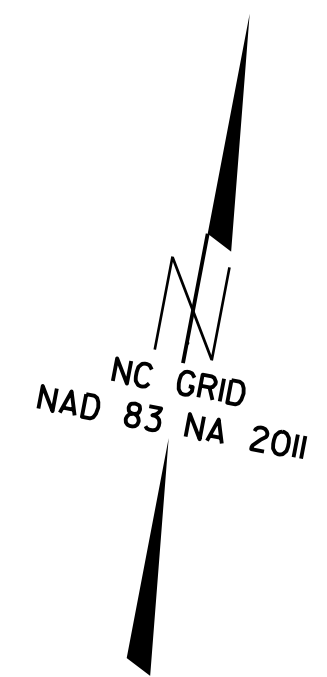
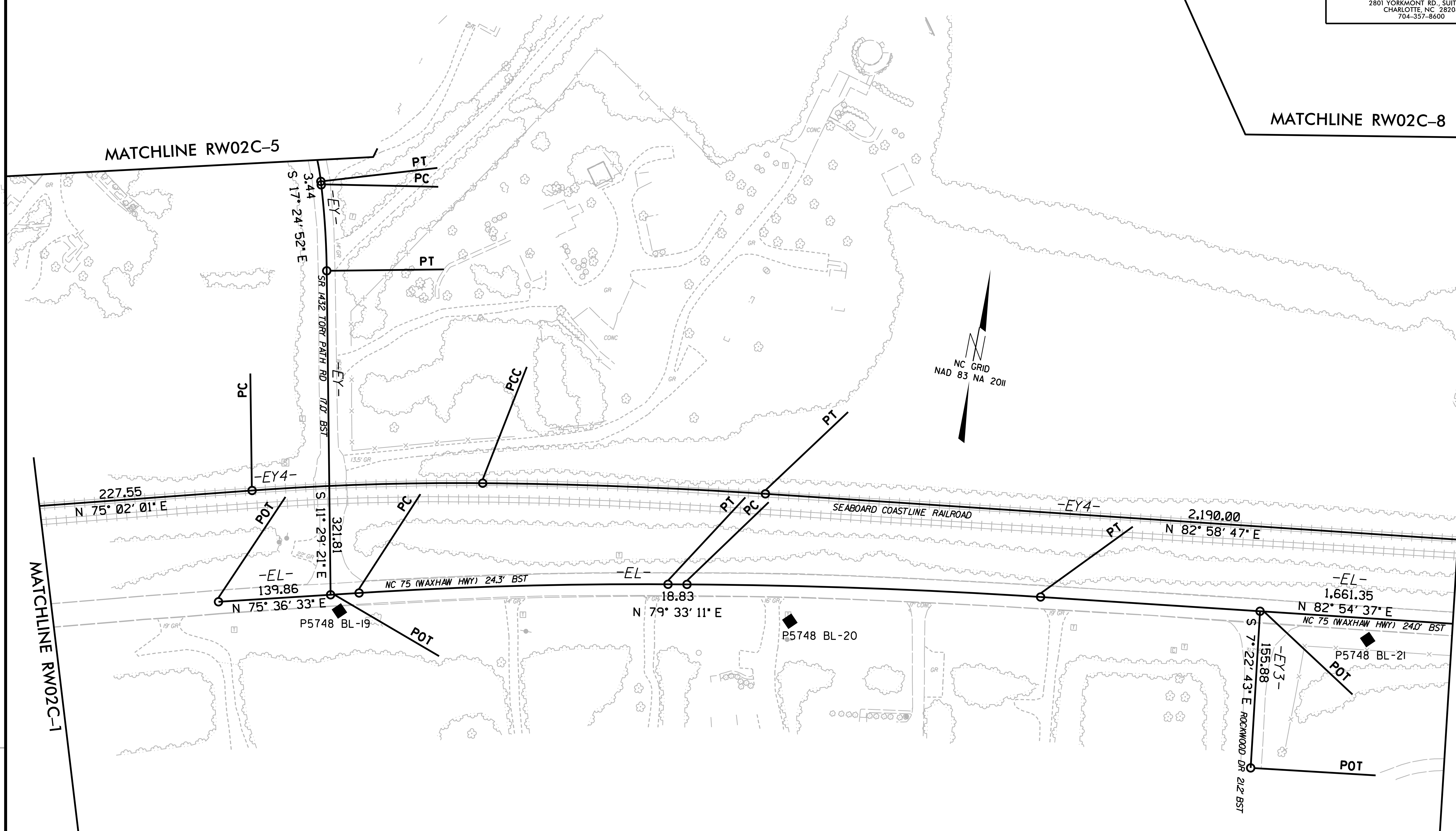
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 core@kohnle AT L6751606

# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
F-14288	RW02C-2
Location and Surveys	
2801 YORKMONT RD., SUITE 100 CHARLOTTE, NC 28208 704-357-8600	

MATCHLINE RW02C-8



MATCHLINE RW02C-1

MATCHLINE RW02C-3

**NOTES:**


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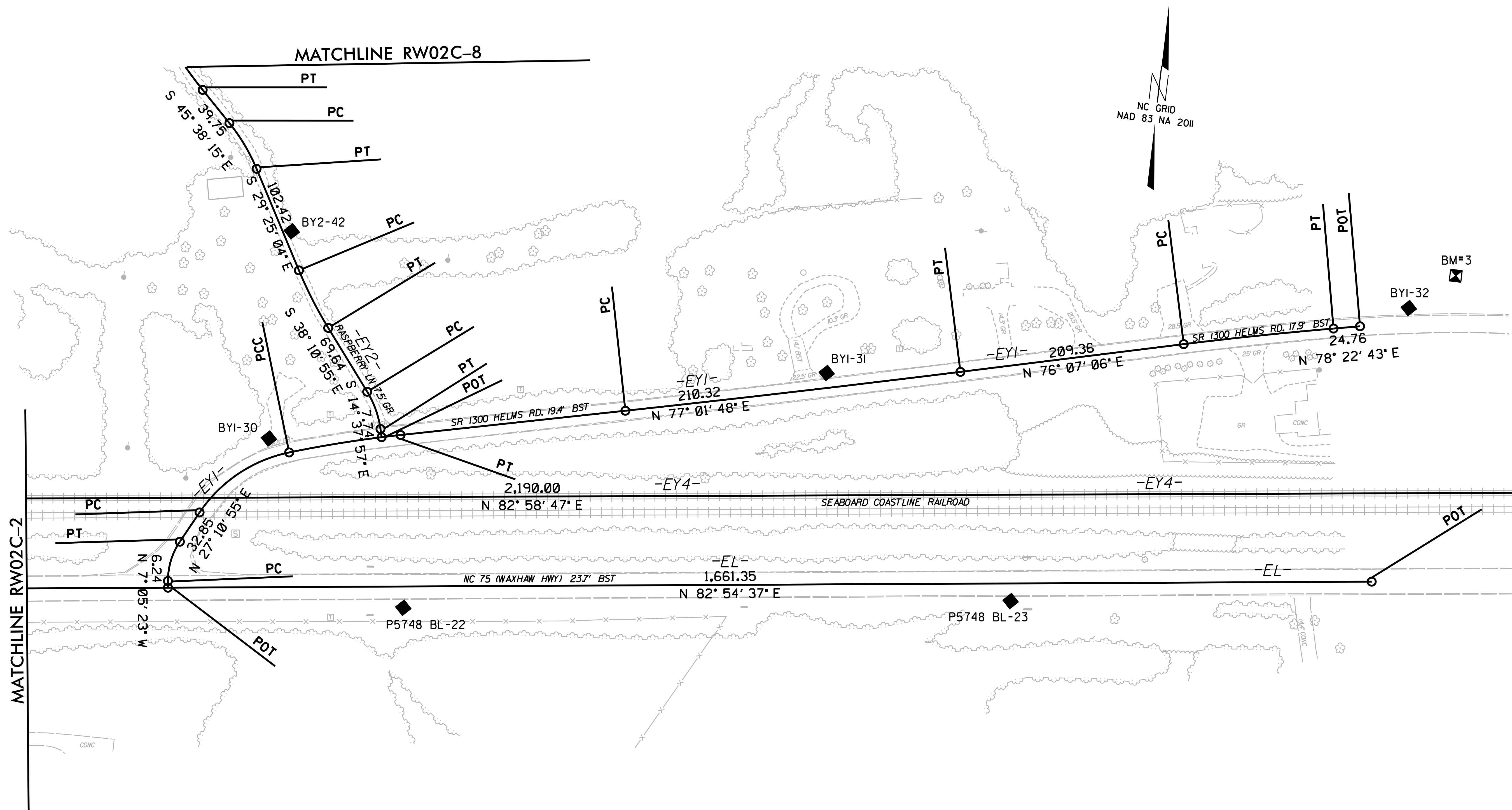
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 coreukohmle AT L6751606

# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
F-14288	RW02C-3
Location and Surveys	
	
2801 YORKMONT RD., SUITE 100 CHARLOTTE, NC 28208 704-357-8600	




**NOTES:**

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
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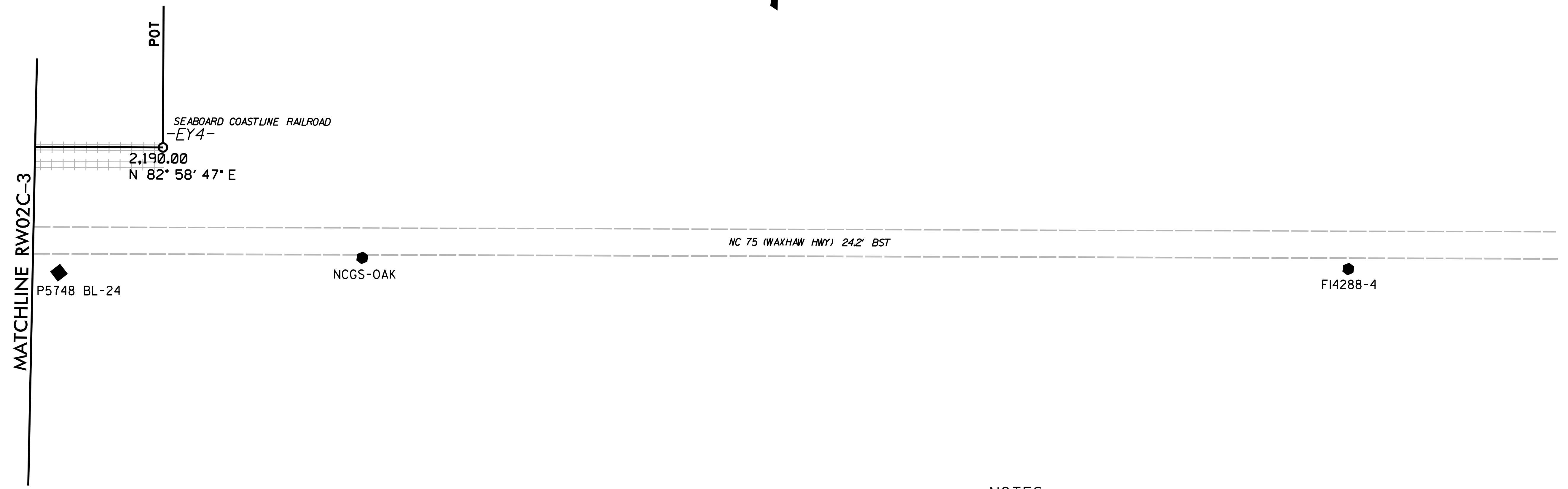
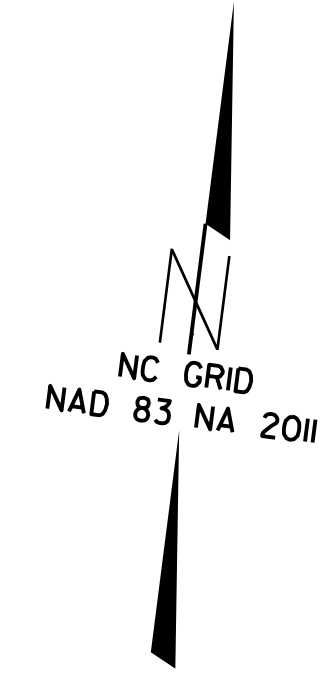
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 core@kohle AT LG751606

PROJECT REFERENCE NO.	SHEET NO.
F-14288	RW02C-4
Location and Surveys	
	
<small>2801 YORKMONT RD., SUITE 100 CHARLOTTE, NC 28208 704-357-8600</small>	

# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION




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

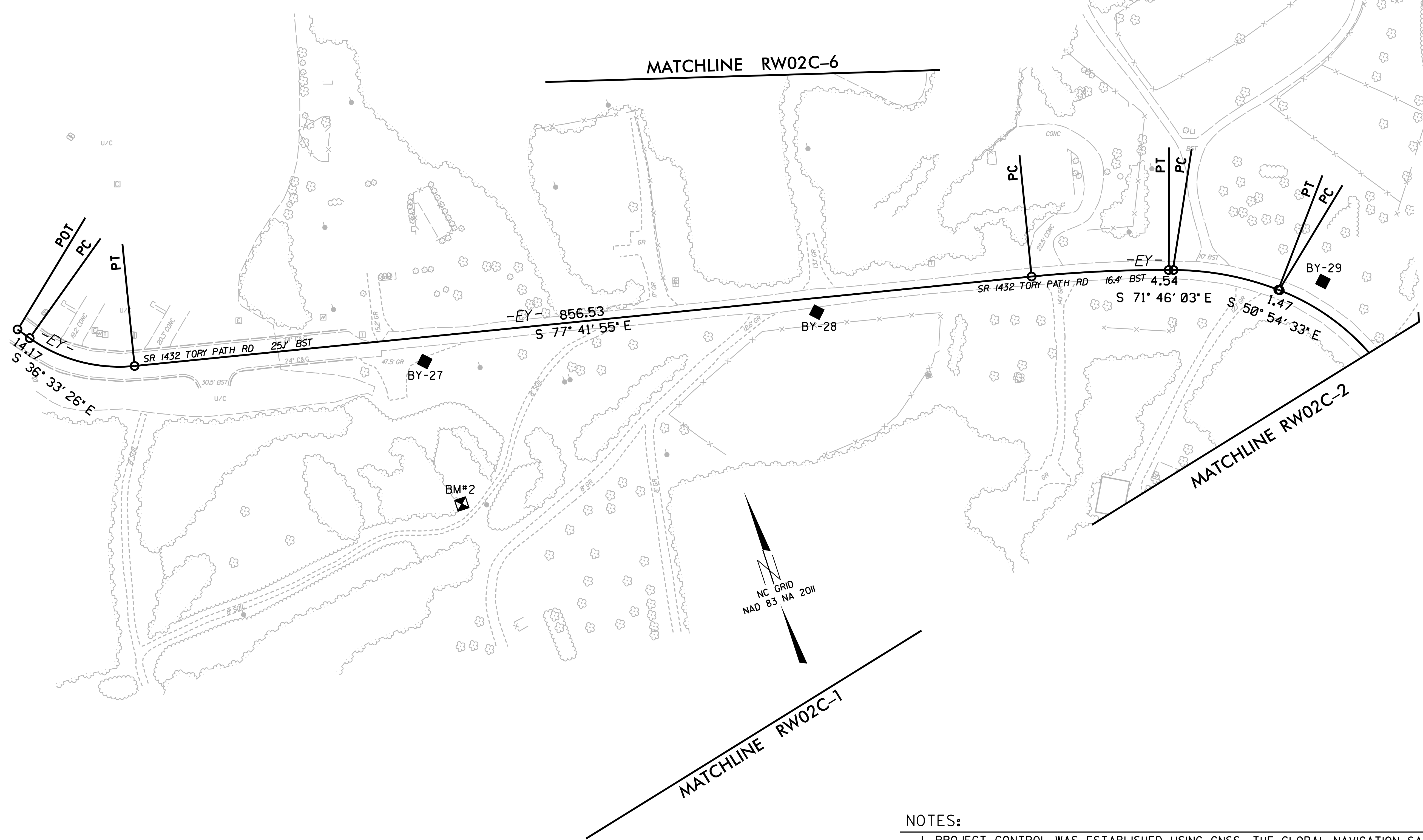
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 core@kohnle.com AT LG751606

# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
F-14288	RW02C-5
Location and Surveys	
	
2801 YORKMONT RD., SUITE 100 CHARLOTTE, NC 28208 704-357-8600	




**NOTES:**

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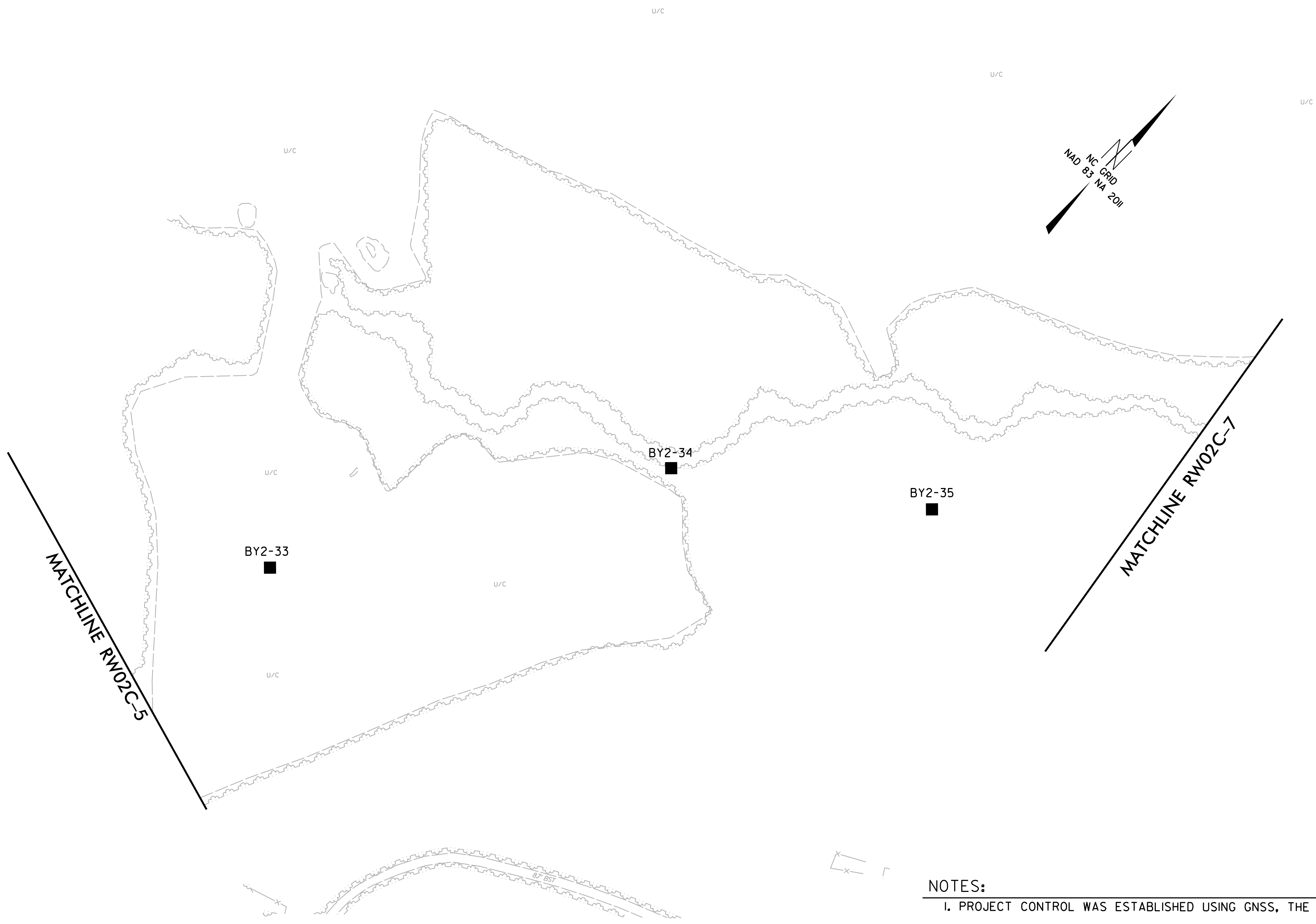
REVISIONS

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 coreukohle AT LG751606

PROJECT REFERENCE NO.	SHEET NO.
F-14288	RW02C-6
Location and Surveys	
	
<small>2801 YORKMONT RD., SUITE 100 CHARLOTTE, NC 28208 704-357-8600</small>	

# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION




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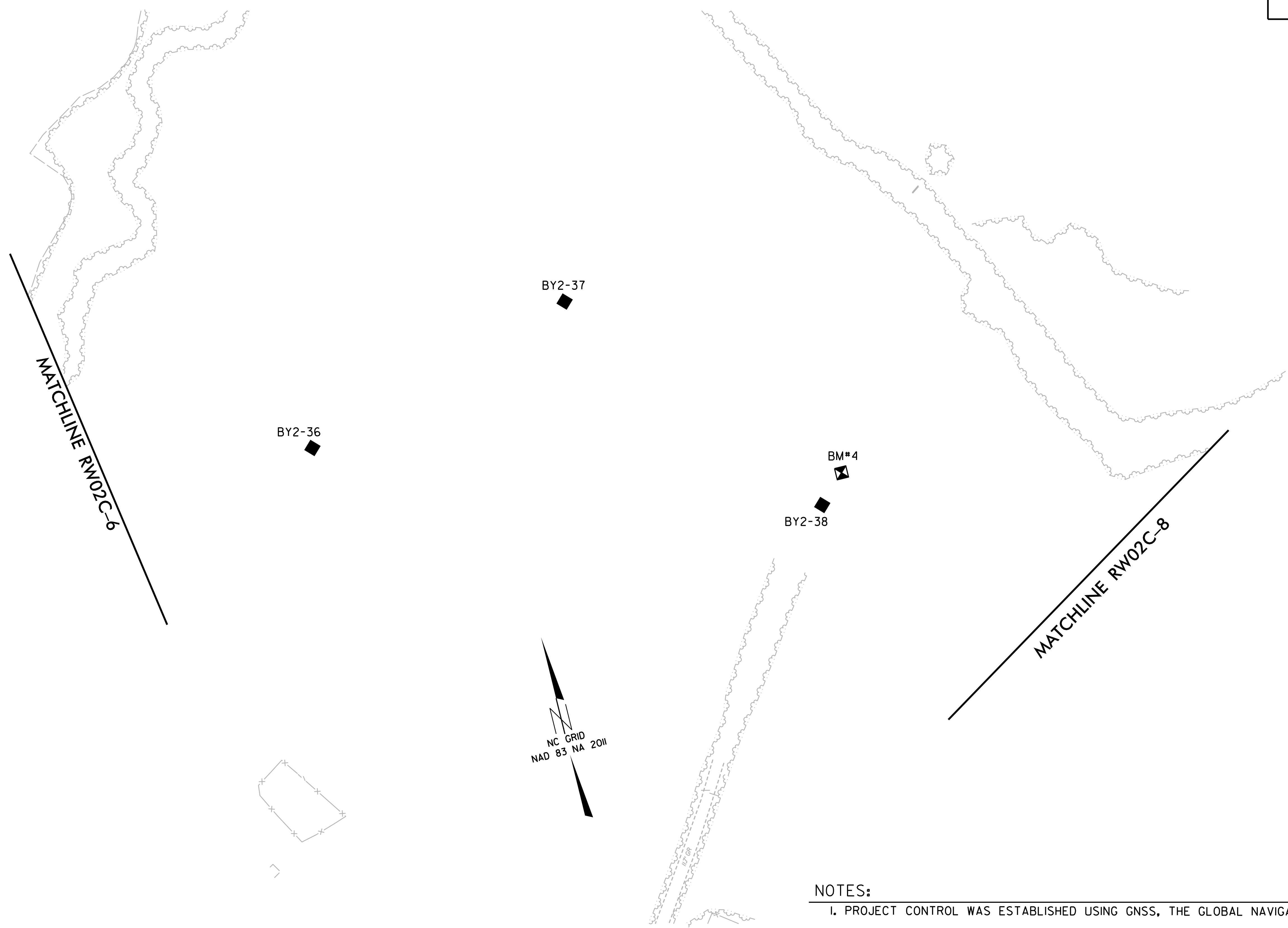
REVISIONS

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 core@kohnle AT LG751606

PROJECT REFERENCE NO.	SHEET NO.
F-14288	RW02C-7
Location and Surveys	
	
<small>2801 YORKMONT RD., SUITE 100 CHARLOTTE, NC 28208 704-357-8600</small>	

# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



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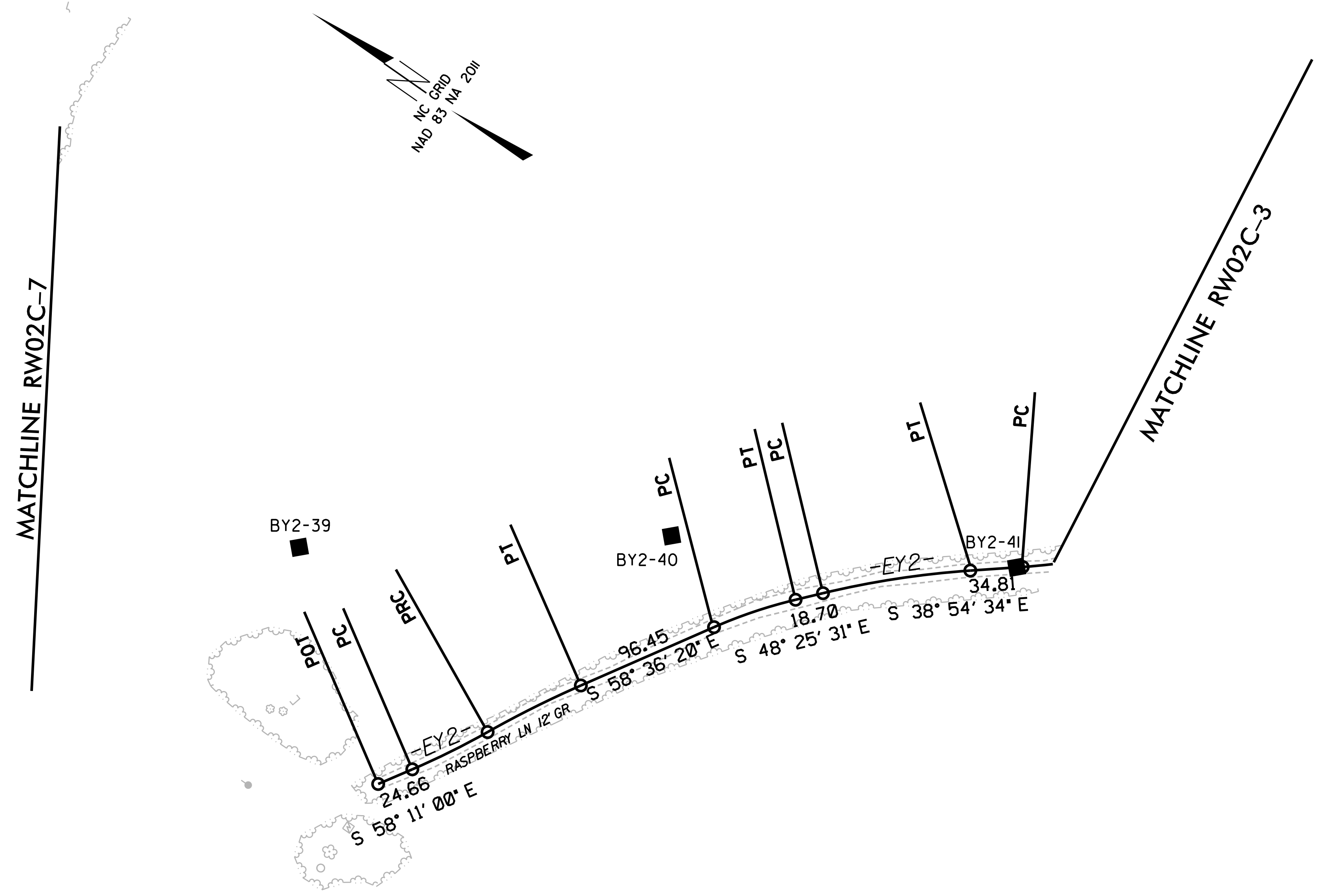
REVISIONS

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 core@kohnle.com AT L6751606 11/08/19



# SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



**NOTES:**

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REVISIONS

20-DEC-2019 11:24  
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 core@kohnle.com AT 11/08/19

REVISIONS

# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
F-14288	RW02C-9
Location and Surveys	
	
<small>2801 YORKMONT RD., SUITE 100 CHARLOTTE, NC 28208 704-357-8600</small>	

BL	POINT	DESC.	NORTH	EAST	ELEVATION
1		F14288-1	430524.1571	1466774.3760	596.32
2		F14288-2	430838.7126	1467956.6950	596.13
19		P5748 BL-19	430928.8490	1468240.6530	608.31
20		P5748 BL-20	431002.6750	1468681.8240	621.46
21		P5748 BL-21	431092.3380	1469248.7600	623.25
22		P5748 BL-22	431147.2100	1469678.7220	614.77
23		P5748 BL-23	431220.3270	1470239.0420	620.43
24		P5748 BL-24	431269.4510	1470731.1420	644.31
3		NCGS-OAK	431316.1743	1470993.8164	649.37
4		F14288-4	431416.1619	1471854.2130	631.38
BY	POINT	DESC.	NORTH	EAST	ELEVATION
27		BY-27	431634.1700	1467279.0920	629.22
28		BY-28	431563.6560	1467647.8700	623.51
29		BY-29	431442.8180	1468114.2650	634.19
400		P5748 BL-19	430928.8490	1468240.6530	608.31
BY1	POINT	DESC.	NORTH	EAST	ELEVATION
401		P5748 BL-21	431092.3380	1469248.7600	623.25
30		BY1-30	431288.8530	1469535.9280	621.03
31		BY1-31	431410.8480	1470043.9620	631.72
32		BY1-32	431535.0370	1470574.6190	640.56
BY2	POINT	DESC.	NORTH	EAST	ELEVATION
402		BY-28	431563.6560	1467647.8700	623.51
33		BY2-33	431945.0820	1467715.6960	634.19
34		BY2-34	432268.7050	1467913.5900	565.87
35		BY2-35	432409.9570	1468110.4720	577.17
36		BY2-36	432517.4780	1468446.6470	590.03
37		BY2-37	432593.6080	1468707.1930	583.80
38		BY2-38	432352.2720	1468894.6530	588.32
39		BY2-39	432039.1860	1469140.6360	646.45
40		BY2-40	431841.1230	1469288.3090	609.53
41		BY2-41	431641.5200	1469402.4060	587.50
42		BY2-42	431482.8960	1469534.1770	612.06
403		BY1-30	431288.8530	1469535.9280	621.03

.....  
 BM1 ELEVATION = 599.21  
 N 430813 E 1467966  
 BL STATION 17+25.00 27 RIGHT  
 TIE SPIKE SET IN 14" WHITE OAK  
 .....

.....  
 BM2 ELEVATION = 629.45  
 N 431495 E 1467271  
 BY STATION 5+18.00 139 RIGHT  
 TIE SPIKE SET IN 42" WHITE OAK  
 .....

.....  
 BM3 ELEVATION = 644.12  
 N 431570 E 1470614  
 BY1 STATION 19+15.00  
 N 48+38'56.7" E DIST 53.05  
 TIE SPIKE SET IN 12" HICKORY  
 .....



.....  
 BM4 ELEVATION = 587.35  
 N 432377 E 1468919  
 BY2 STATION 24+35.00 35 LEFT  
 TIE SPIKE SET IN 18" MAPLE  
 .....

### NOTES:

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# PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO. Y-5500JC	SHEET NO. rw02d
<b>Location and Surveys</b>	
 DRMP, INC. 4235 SOUTH STREAM BLVD, SUITE 150 CHARLOTTE, NC 28217 PHONE: (704) 332 2289	
PROJECT SURVEYOR  AUGUST A. THICK II	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

L			
TYPE	STATION	NORTH	EAST
POT	10+00.00	431782.6669	1466920.5707
PC	10+14.17	431771.2861	1466929.0096
PT	11+19.57	431715.2961	1467015.6494
PC	16+30.45	431606.4525	1467514.7933
PT	18+35.13	431691.7137	1467683.6562
PC	21+69.11	431996.5420	1467820.1337
PT	38+46.17	432039.4342	1469168.3165
PC	42+75.22	431659.7731	1469368.1797
PT	50+05.91	431382.0389	1469986.8166
PC	54+01.34	431476.9101	1470370.7021
PT	55+41.45	431507.8342	1470507.3513
POT	55+66.22	431512.8222	1470531.6050

Y1			
TYPE	STATION	NORTH	EAST
PC	10+00.00	431619.4035	1467614.9400
PT	10+84.98	431570.1894	1467681.0915
PC	13+38.24	431516.2333	1467928.5283
PCC	14+71.88	431463.8173	1468050.5855
PT	16+65.31	431306.7927	1468155.1289
POT	20+36.52	430943.0265	1468229.0662

Y2			
TYPE	STATION	NORTH	EAST
POT	10+00.00	431392.8526	1469685.0320
PC	10+35.72	431358.8801	1469674.0029
PRC	11+33.97	431293.4998	1469605.9872
PCC	11+86.03	431278.2139	1469556.2257
PT	12+88.92	431212.8809	1469480.0648
PC	13+21.77	431183.6594	1469465.0585
PT	13+60.55	431146.0447	1469458.3948
POT	13+66.79	431139.8491	1469459.1654

Y3			
TYPE	STATION	NORTH	EAST
POT	10+00.00	430915.3126	1468121.0564
PC	11+39.86	430950.0722	1468256.5254
PT	14+46.76	431016.0601	1468556.1847
PC	14+65.59	431019.4741	1468574.7011
PT	18+16.93	431073.0256	1468921.8920
POT	34+78.28	431278.0764	1470570.5388

Y4			
TYPE	STATION	NORTH	EAST
POT	10+00.00	430971.3860	1467913.2724
PC	12+27.55	431030.1530	1468133.1079
PCC	14+56.67	431080.2120	1468356.6205
PT	17+37.59	431122.4595	1468634.3045
POT	39+27.59	431390.1205	1470807.8881

I, August Thick, 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 26th day of July, 2021.

  
 Professional Land Surveyor L-5373

REVISIONS

R5 - JUL 20 2021 3:33  
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**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.





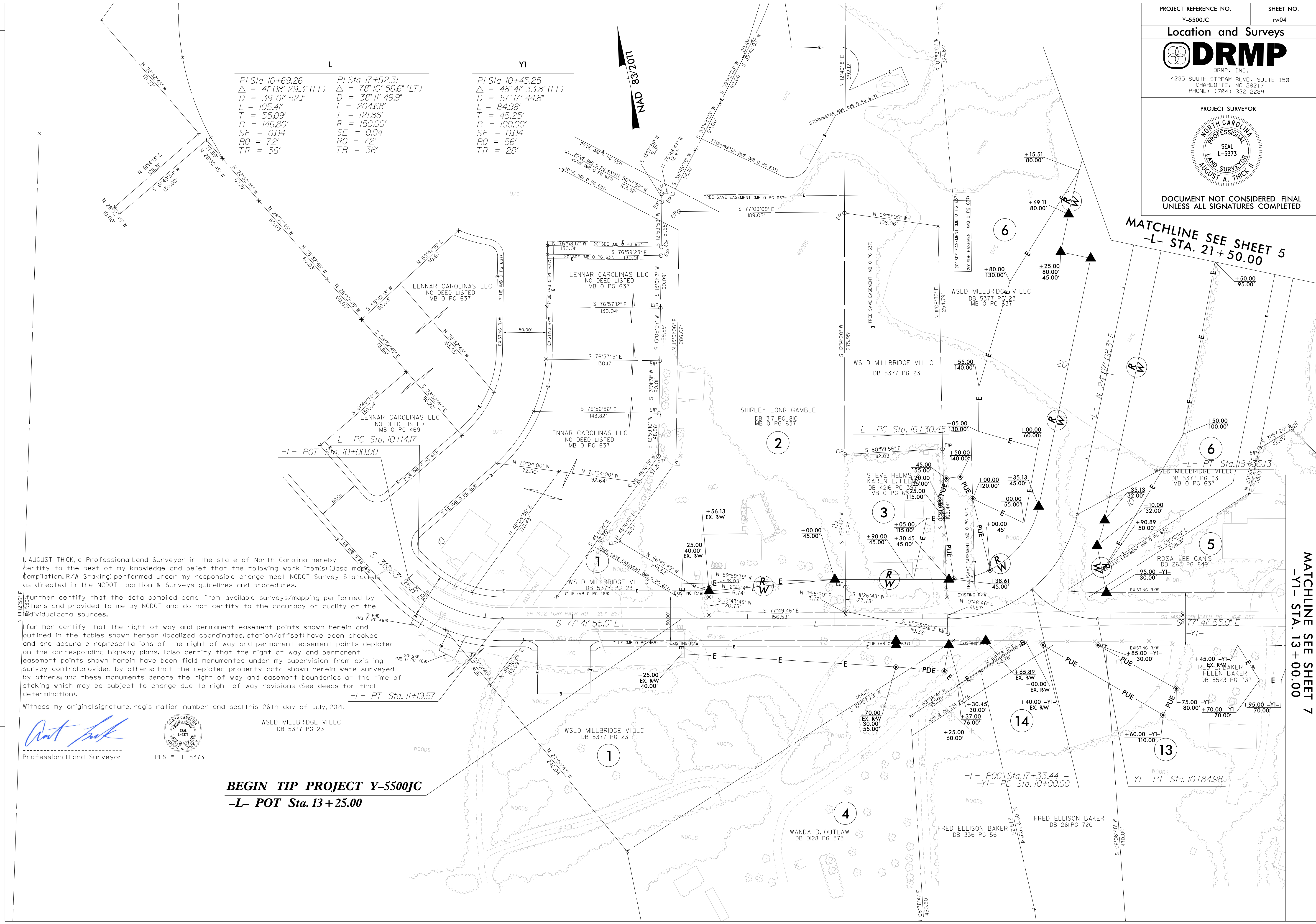
PROJECT SURVEYOR  
 DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED

**MATCHLINE SEE SHEET 5**  
**-L- STA. 21+50.00**

**MATCHLINE SEE SHEET 7**  
**-Y1- STA. 13+00.00**

L		Y1	
PI Sta 10+69.26	PI Sta 17+52.31	PI Sta 10+45.25	
$\Delta = 41^{\circ}08'29.3"$ (LT)	$\Delta = 78^{\circ}10'56.6"$ (LT)	$\Delta = 48^{\circ}41'33.8"$ (LT)	
D = 39'01" 52.1"	D = 38'11" 49.9"	D = 57'17" 44.8"	
L = 105.41'	L = 204.68'	L = 84.98'	
T = 55.09'	R = 150.00'	T = 45.25'	
R = 146.80'	R = 150.00'	R = 100.00'	
SE = 0.04	SE = 0.04	SE = 0.04	
RO = 72'	RO = 72'	RO = 56'	
TR = 36'	TR = 36'	TR = 28'	

REVISIONS



I, AUGUST THICK, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work item(s) (Base map compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further 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.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station/offset) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others; and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (See deeds for final determination).


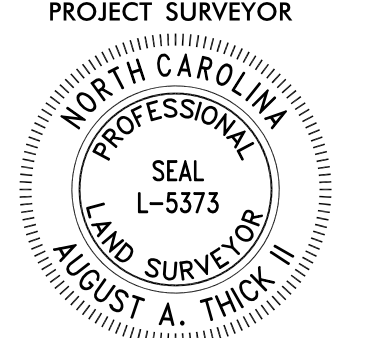
Witness my original signature, registration number and seal this 26th day of July, 2021.

*August Thick*  
 Professional Land Surveyor  
 PLS # L-5373



WSLD MILLBRIDGE VILLC  
 DB 5377 PG 23

**BEGIN TIP PROJECT Y-5500JC**  
**-L- POT Sta. 13+25.00**

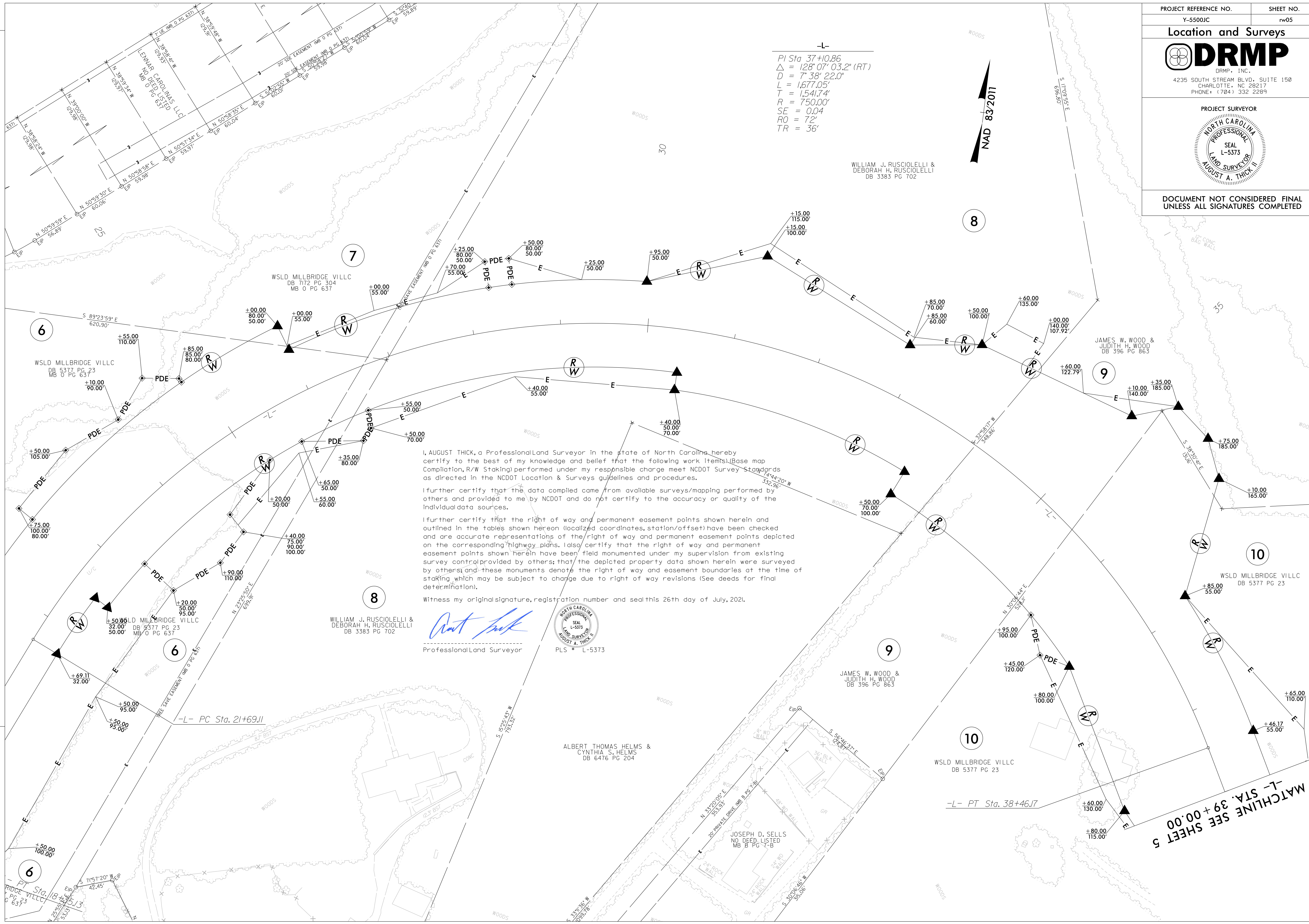
PROJECT REFERENCE NO. Y-5500JC	SHEET NO. rw05
<b>Location and Surveys</b>	
 <b>DRMP</b> DRMP, INC. 4235 SOUTH STREAM BLVD, SUITE 150 CHARLOTTE, NC 28217 PHONE: (704) 332 2289	
PROJECT SURVEYOR  NORTH CAROLINA PROFESSIONAL SEAL L-5373 LAND SURVEYOR AUGUST A. THICK	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

-L-

PI Sta 37+10.86  
 $\Delta = 128^{\circ}07'03.2" (RT)$   
 $D = 7^{\circ}38'22.0"$   
 $L = 1,677.05'$   
 $T = 1,541.74'$   
 $R = 750.00'$   
 $SE = 0.04$   
 $RO = 72'$   
 $TR = 36'$

NAD 83/2011

REVISIONS


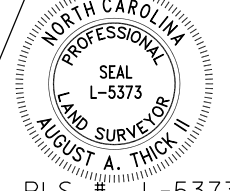


I, AUGUST THICK, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work items (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further 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.

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Witness my original signature, registration number and seal this 26th day of July, 2021.

  
 WILLIAM J. RUSCIOLELLI &  
 DEBORAH H. RUSCIOLELLI  
 DB 3383 PG 702  
 Professional Land Surveyor  
  
 PLS # L-5373

ALBERT THOMAS HELMS &  
 CYNTHIA S. HELMS  
 DB 6476 PG 204

MATCHLINE SEE SHEET 5  
 -L- STA. 39+00.00

I, AUGUST THICK, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work items (Base map Compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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Witness my original signature, registration number and seal this 26th day of July, 2021.

*August Thick*  
Professional Land Surveyor



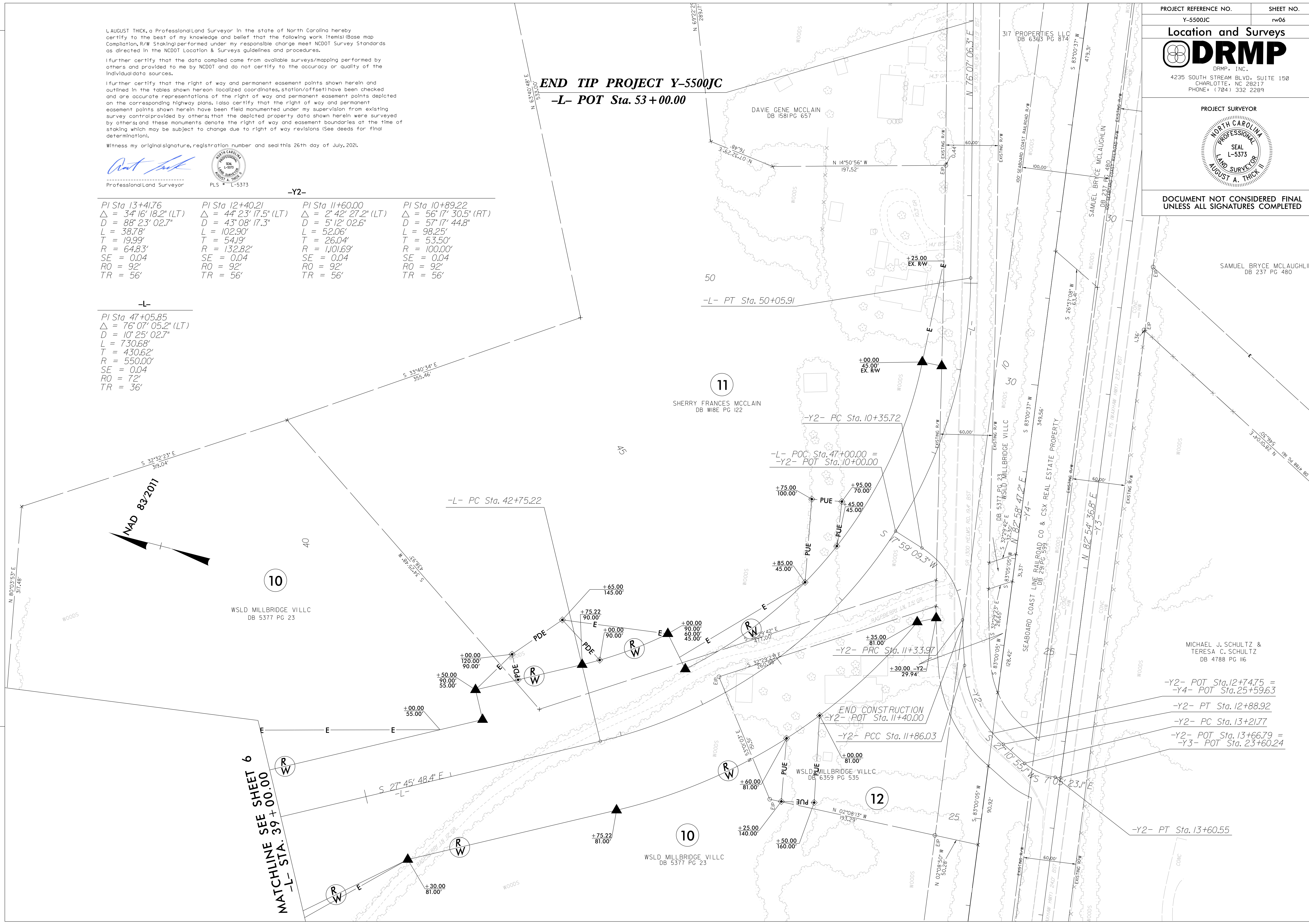
**END TIP PROJECT Y-5500JC**  
**-L- POT Sta. 53+00.00**

PI Sta 13+41.76	PI Sta 12+40.21	PI Sta 11+60.00	PI Sta 10+89.22
$\Delta = 34' 16' 18.2''$ (LT)	$\Delta = 44' 23' 17.5''$ (LT)	$\Delta = 2' 42' 27.2''$ (LT)	$\Delta = 56' 17' 30.5''$ (RT)
$D = 88' 23' 02.7''$	$D = 43' 08' 17.3''$	$D = 5' 12' 02.6''$	$D = 57' 17' 44.8''$
$L = 38.78'$	$L = 102.90'$	$L = 52.06'$	$L = 98.25'$
$T = 19.99'$	$T = 54.19'$	$T = 26.04'$	$T = 53.50'$
$R = 64.83'$	$R = 132.82'$	$R = 1,101.69'$	$R = 100.00'$
$SE = 0.04$	$SE = 0.04$	$SE = 0.04$	$SE = 0.04$
$RO = 92'$	$RO = 92'$	$RO = 92'$	$RO = 92'$
$TR = 56'$	$TR = 56'$	$TR = 56'$	$TR = 56'$

**-L-**

PI Sta 47+05.85
$\Delta = 76' 07' 05.2''$ (LT)
$D = 10' 25' 02.7''$
$L = 730.68'$
$T = 430.62'$
$R = 550.00'$
$SE = 0.04$
$RO = 72'$
$TR = 36'$

REVISIONS



PROJECT REFERENCE NO. Y-5500JC	SHEET NO. rw06
<b>Location and Surveys</b>	
<b>DRMP</b> DRMP, INC. 4235 SOUTH STREAM BLVD., SUITE 150 CHARLOTTE, NC 28217 PHONE: (704) 332 2289	
PROJECT SURVEYOR <b>AUGUST A. THICK</b> NORTH CAROLINA PROFESSIONAL LAND SURVEYOR SEAL L-5373	

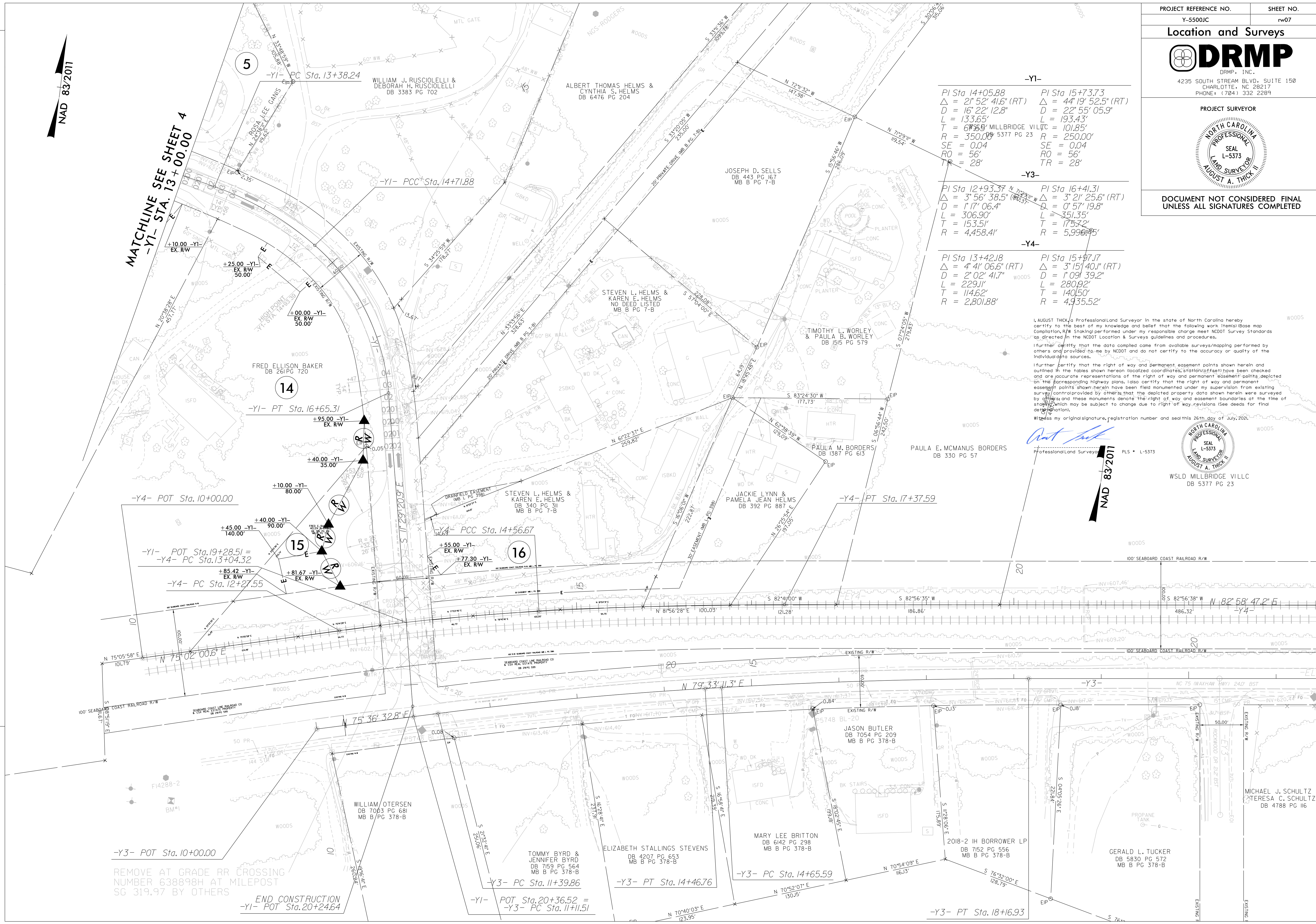
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MICHAEL J. SCHULTZ & TERESA C. SCHULTZ  
DB 4788 PG 116

-Y2- POT Sta. 12+74.75 =  
-Y4- POT Sta. 25+59.63  
-Y2- PT Sta. 12+88.92  
-Y2- PC Sta. 13+21.77  
-Y2- POT Sta. 13+66.79 =  
-Y3- POT Sta. 23+60.24

-Y2- PT Sta. 13+60.55





-Y1-	
PI Sta 14+05.88 Δ = 2° 52' 41.6" (RT) D = 16' 22' 12.8" L = 133.65' T = 67.83' SE = 0.04 RO = 56' TR = 28'	PI Sta 15+73.73 Δ = 44° 19' 52.5" (RT) D = 22' 55' 05.9" L = 193.43' T = 101.85' SE = 0.04 RO = 56' TR = 28'
-Y3-	
PI Sta 12+93.37 Δ = 3° 56' 38.5" (RT) D = 1' 17' 06.4" L = 306.90' T = 153.51' R = 4,458.41'	PI Sta 16+41.31 Δ = 3° 21' 25.6" (RT) D = 0' 57' 19.8" L = 351.35' T = 175.72' R = 5,996.95'
-Y4-	
PI Sta 13+42.18 Δ = 4° 41' 06.6" (RT) D = 2' 02' 41.7" L = 229.11' T = 114.62' R = 2,801.88'	PI Sta 15+97.17 Δ = 3° 15' 40.1" (RT) D = 1' 09' 39.2" L = 280.92' T = 140.50' R = 4,935.52'

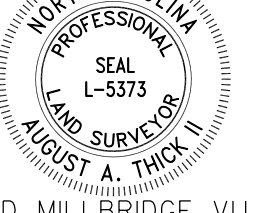
I, AUGUST THICKE, a Professional Land Surveyor in the state of North Carolina hereby certify to the best of my knowledge and belief that the following work items (base map, compilation, R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

I further 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.

I further certify that the right of way and permanent easement points shown herein and outlined in the tables shown hereon (localized coordinates, station offsets) have been checked and are accurate representations of the right of way and permanent easement points depicted on the corresponding highway plans. I also certify that the right of way and permanent easement points shown herein have been field monumented under my supervision from existing survey control provided by others; that the depicted property data shown herein were surveyed by others and these monuments denote the right of way and easement boundaries at the time of staking which may be subject to change due to right of way revisions (see deeds for final determination).

Witness my original signature, registration number and seal this 26th day of July, 2021.

*August A. Thicke*  
Professional Land Surveyor  
PLS # L-5373

  
WSLD MILLBRIDGE VILLC  
DB 5377 PG 23

REVISIONS

NAD 83/2011

NAD 83/2011

REMOVE AT GRADE RR CROSSING  
NUMBER 638898H AT MILEPOST  
SG 319.97 BY OTHERS  
END CONSTRUCTION  
-Y1- POT Sta. 20+24.64

-Y1- POT Sta. 20+36.52 =  
-Y3- PC Sta. 11+11.51

-Y3- PT Sta. 14+46.76

-Y3- PC Sta. 14+65.59

-Y3- PT Sta. 18+16.93