


PROJECT REFERENCE NO. R-2233BB SHEET NO. RW10

Location and Surveys

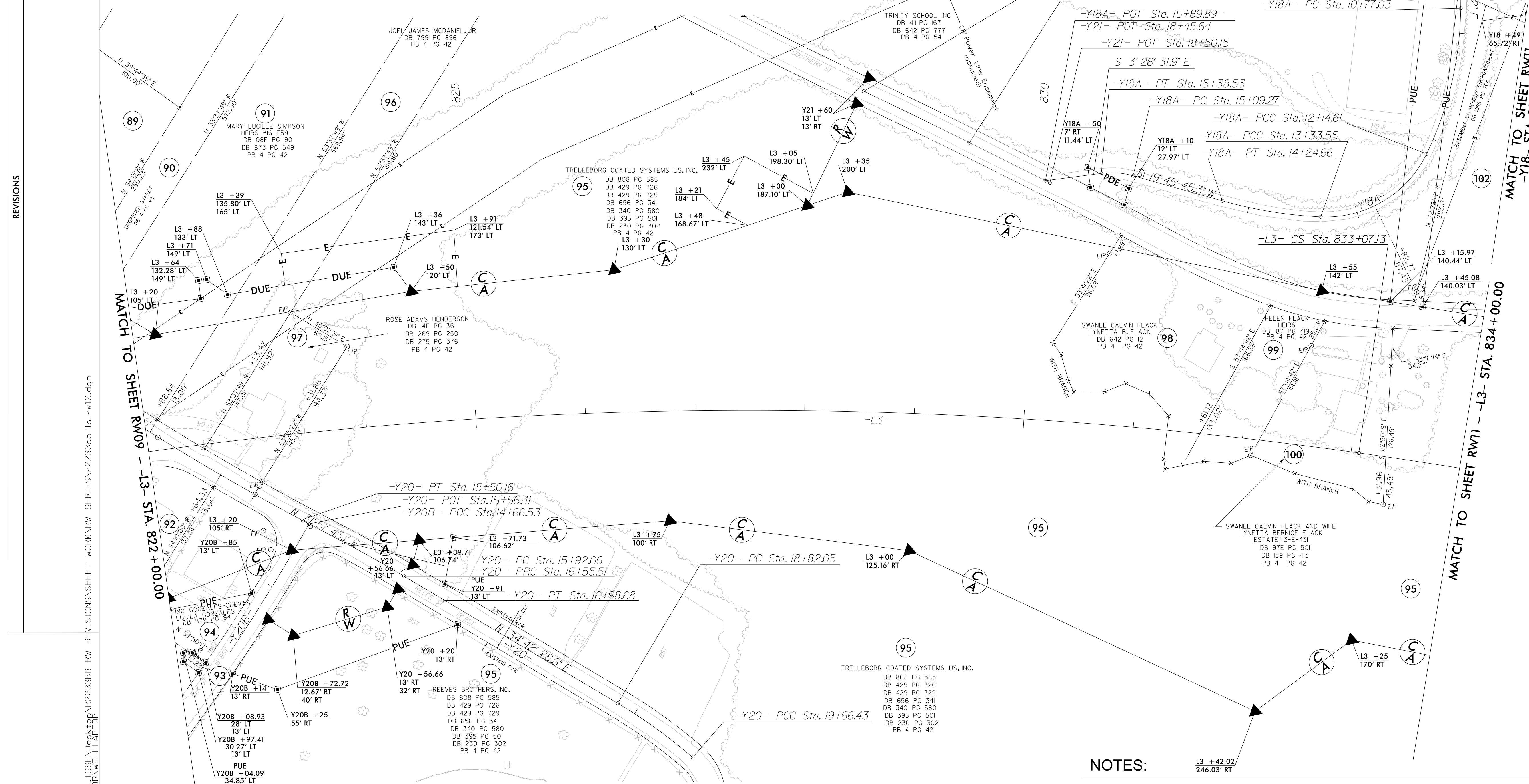
TGS ENGINEERS
804-C N. LAFAYETTE ST
SHELBY, NC 28150
PH (704) 476-0003
CORP. LICENSE NO.: C-0275

PROJECT SURVEYOR

 Matthew T. Cornwell
 EBO36F11475E475
 8/26/2021

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Matthew T. Cornwell, 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 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 26th day of August, 2021.
 DocuSigned by:
 Matthew Cornwell
 EBO36F11475E475
 8/26/2021
 Professional Land Surveyor L-4775



CURVE DATA FOR -Y20-

PI Sta 14+53.86 Δ = 5° 05' 18.8" (LT) D = 2' 38' 25.3" L = 192.72' T = 96.42' R = 2,170.00'	PI Sta 16+23.79 Δ = 3° 01' 45.6" (RT) D = 4' 46' 28.7" L = 63.45' T = 31.73' R = 1,200.00'	PI Sta 16+77.10 Δ = 0° 11' 02.1" (LT) D = 0' 25' 33.6" L = 43.18' T = 21.59' R = 13,450.00'	PI Sta 19+24.35 Δ = 10° 17' 09.7" (RT) D = 12' 11' 26.1" L = 84.38' T = 42.30' R = 470.00'
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CURVE DATA FOR -Y20B-

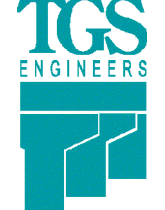

PI Sta 13+53.77 Δ = 7° 38' 04.0" (LT) D = 3' 22' 49.0" L = 225.85' T = 113.09' R = 1,695.00'

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 11/6/2017 TO 8/23/2021 .

REVISIONS

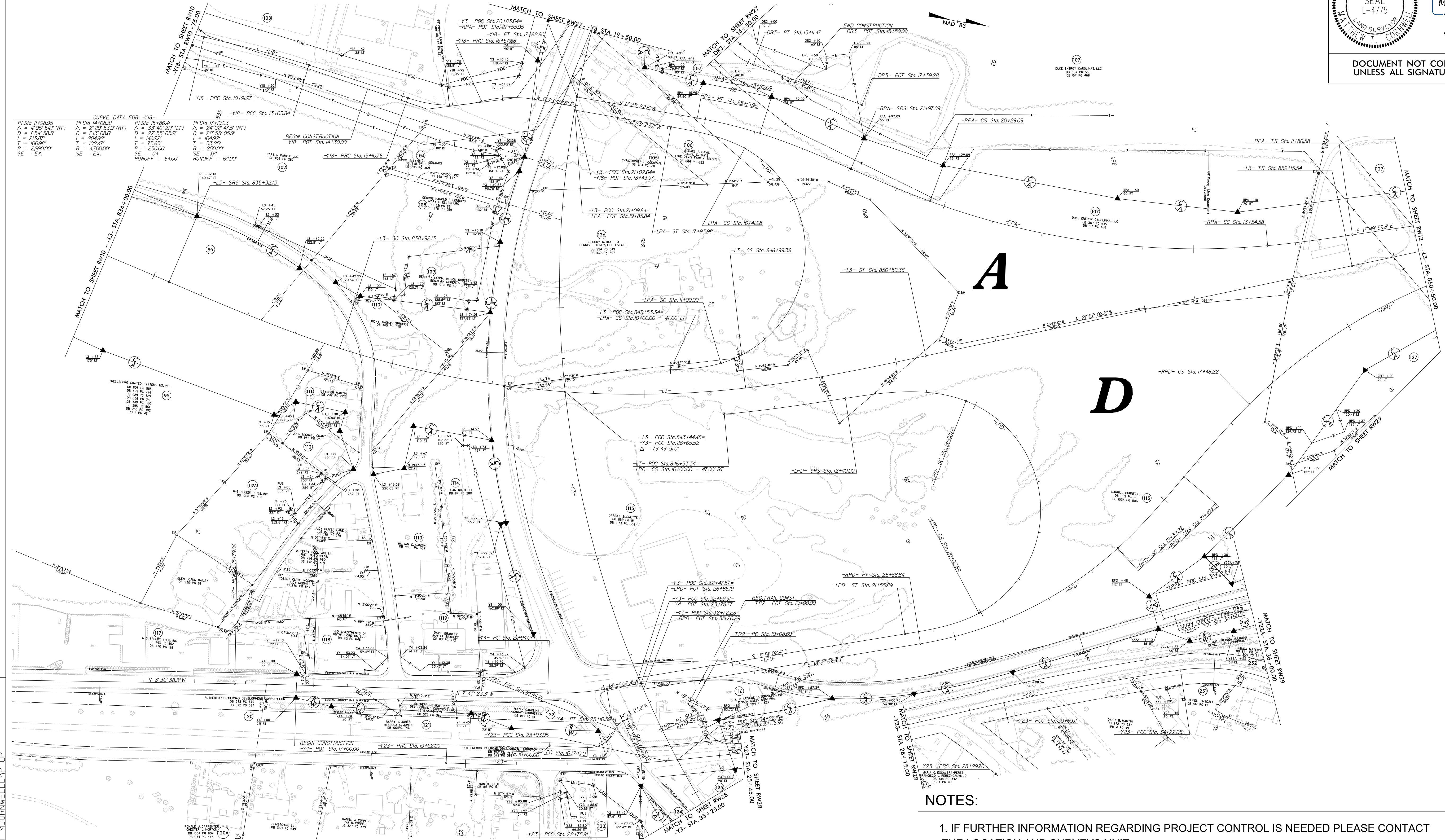
8-AUG-2021 11:28
 C:\Users\mccornwell\OneDrive\Documents\Projects\R-2233BB\RW REVISIONS\SHEET WORK\RW SERIES\R-2233BB.LS.rw10.dgn
 Matthew T. Cornwell

PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	RW11
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
	
DocuSigned by: Matthew Cornwell EBD06F11473E475 9/1/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Matthew T. Cornwell, 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 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1st day of September, 2021. DocuSigned by:
Matthew Cornwell
 EBD06F11473E475
 9/1/2021

Professional Land Surveyor L-4775

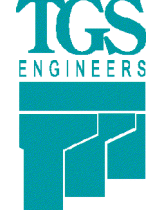
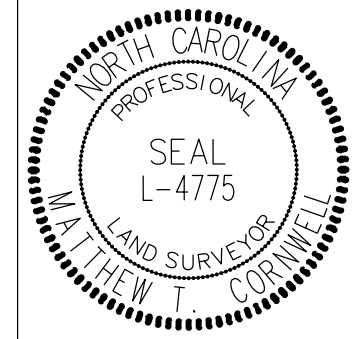



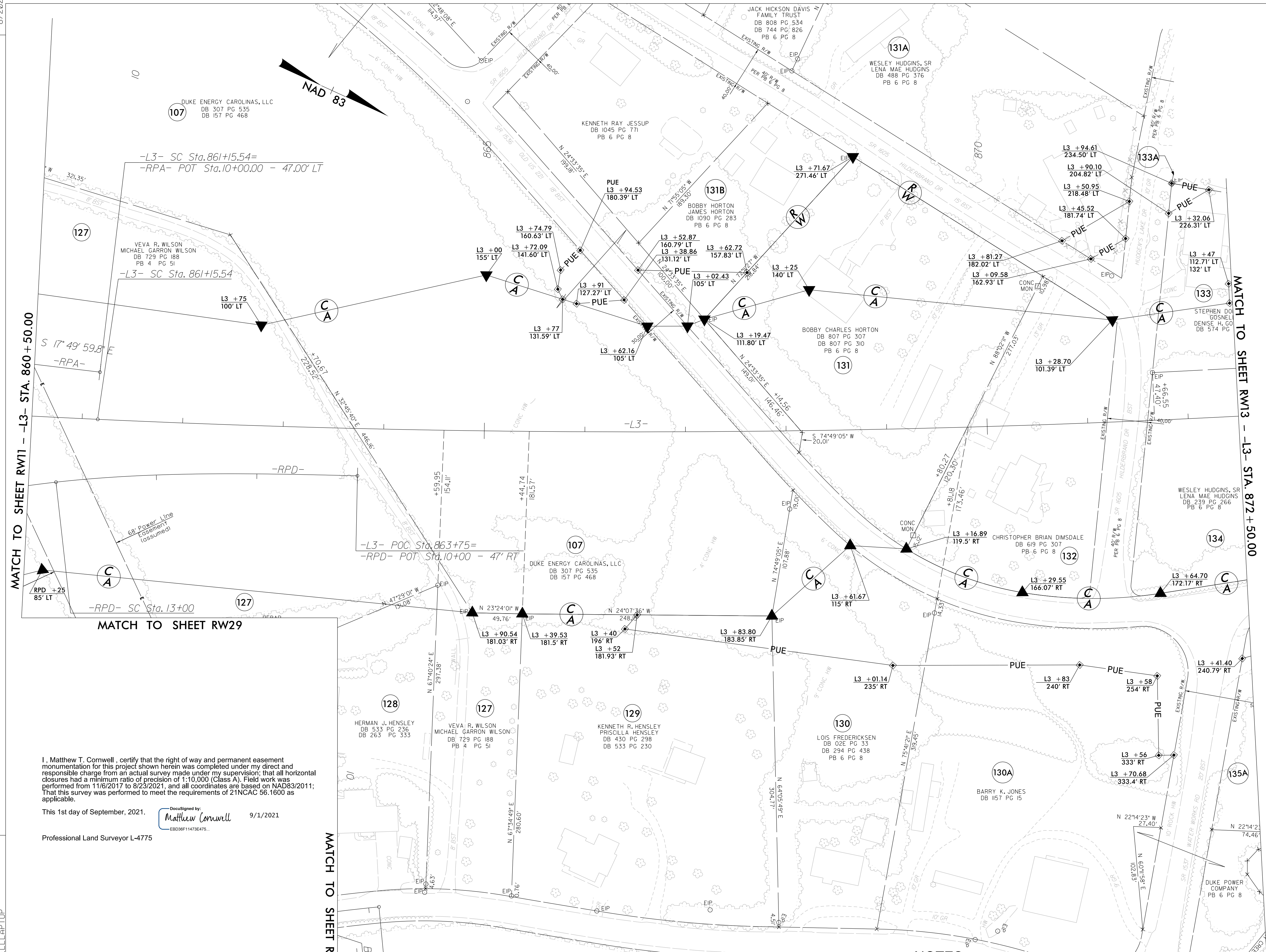
NOTES:

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3. RIGHT OF WAY MONUMENTATION ESTABLISHED 11/6/2017 TO 8/23/2021 .

REVISIONS

01-SEP-2021 07:42
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 M. CORNWELL

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW12
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
	DocuSigned by:  EBD36F11473E475... 9/1/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



MATCH TO SHEET RW11 - L3- STA. 860+50.00

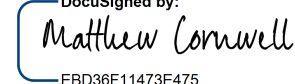
MATCH TO SHEET RW29

MATCH TO SHEET RW13 - L3- STA. 872+50.00

MATCH TO SHEET RW29

I, Matthew T. Cornwell, 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 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1st day of September, 2021.

DocuSigned by:

 EBD36F11473E475...
 9/1/2021

Professional Land Surveyor L-4775

CURVE DATA FOR -RPD-


PIs Sta 12+00.19 $\theta_s = 7^\circ 45' 00.0''$ $L_s = 300.00'$ $LT = 200.19'$ $ST = 100.17'$	PI Sta 15+27.21 $\Delta = 23^\circ 09' 28.9''$ (LT) $D = 5^\circ 10' 00.0''$ $L = 448.22'$ $T = 227.21'$ $R = 1,108.95'$ $SE = .08$	PIs Sta 18+12.27 $\theta_s = 4^\circ 57' 36.0''$ $L_s = 192.00'$ $LT = 128.05'$ $ST = 64.05'$
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NOTES:

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3. RIGHT OF WAY MONUMENTATION ESTABLISHED 11/6/2017 TO 8/23/2021 .

REVISIONS

01-SEP-2021 07:44
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 Matthew T. Cornwell

PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	RW13
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	

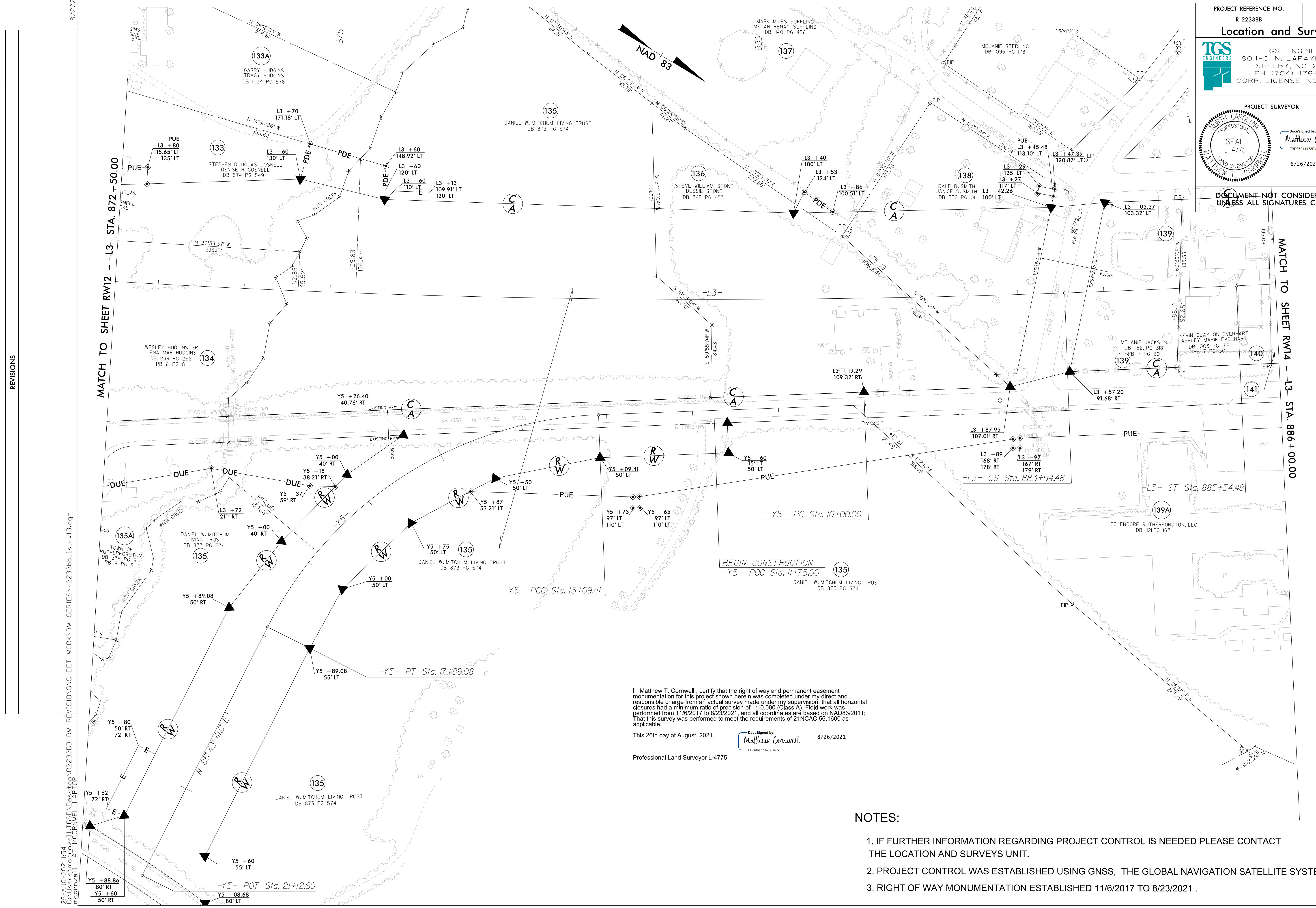
PROJECT SURVEYOR



Designed by:
Matthew Cornwell
EBD08F11473E475

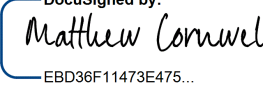
8/26/2021

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



I, Matthew T. Cornwell, 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 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 26th day of August, 2021.


 Matthew Cornwell
 EBD08F11473E475




Professional Land Surveyor L-4775

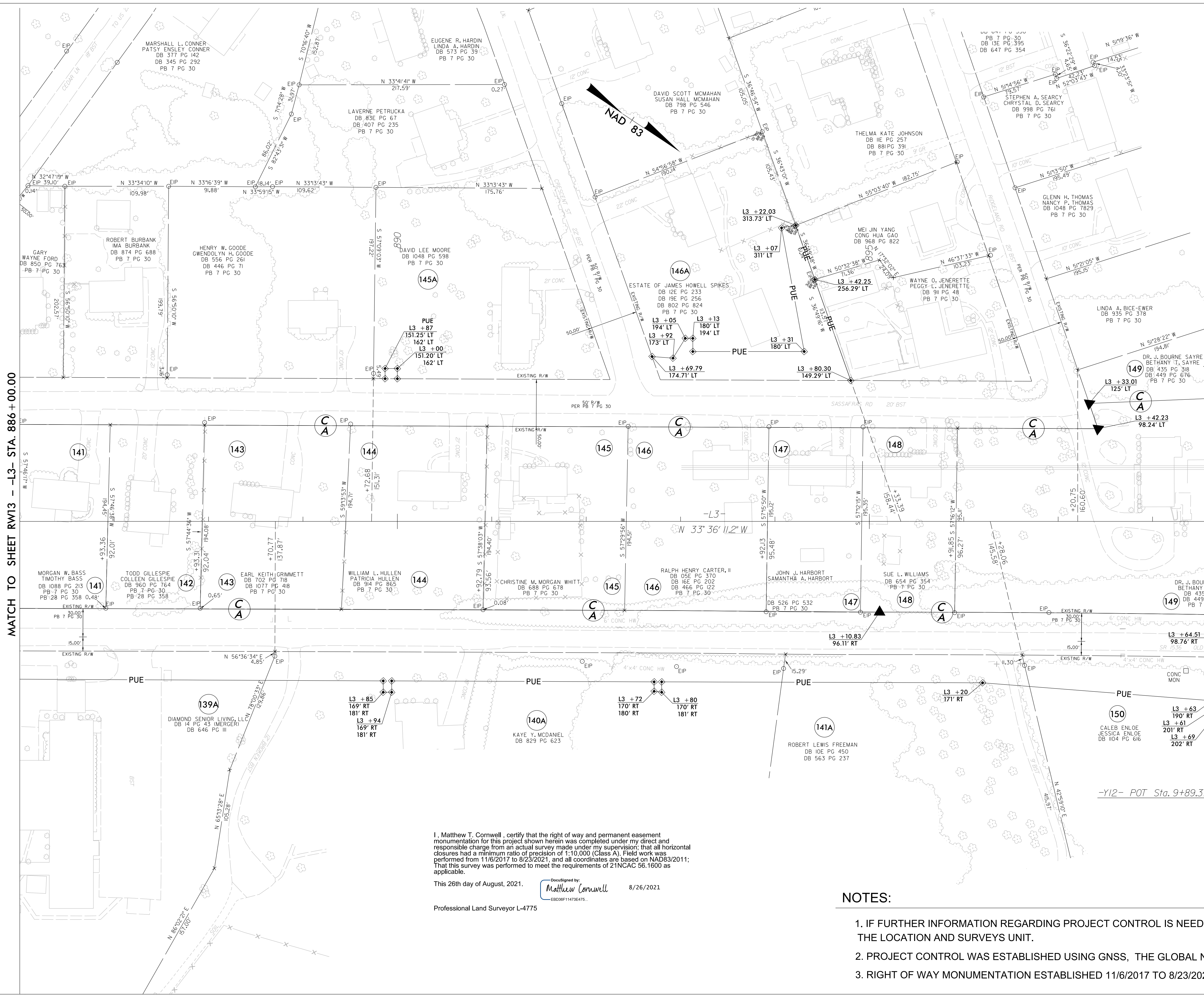
NOTES:

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3. RIGHT OF WAY MONUMENTATION ESTABLISHED 11/6/2017 TO 8/23/2021 .

REVISIONS

25-AUG-2021 11:34
 C:\Users\mccornwell\OneDrive\Documents\Projects\R-2233BB\RW REVISIONS\SHEET WORK\RW SERIES\R-2233BB-1s.rw13.dgn
 mccornwell

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW14
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
	
DocuSigned by:  EBD36F11473E475 8/26/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	




REVISIONS

MATCH TO SHEET RW13 - L3- STA. 886 + 00.00

MATCH TO SHEET RW15 - L3- STA. 899 + 00.00

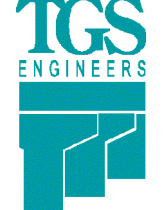

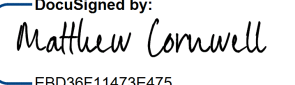
I, Matthew T. Cornwell, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

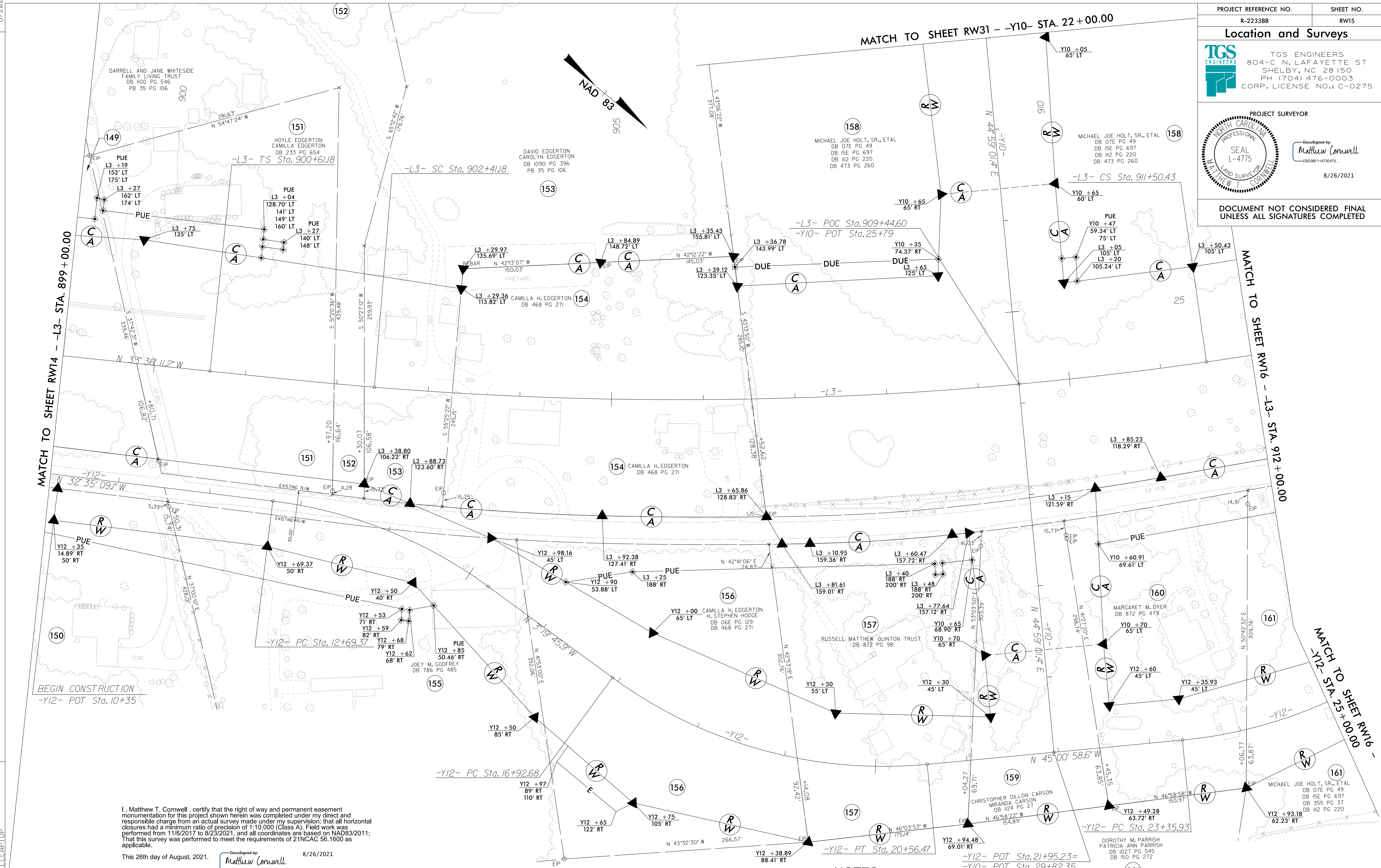
This 26th day of August, 2021.  8/26/2021
 Professional Land Surveyor L-4775

NOTES:


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3. RIGHT OF WAY MONUMENTATION ESTABLISHED 11/6/2017 TO 8/23/2021 .

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 Matthew Cornwell

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW15
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
 SEAL L-4775 M. T. CORNWELL PROFESSIONAL LAND SURVEYOR	
DocuSigned by:  Matthew Cornwell EBO36F11473E475 8/26/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



I, Matthew T. Cornwell, 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 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

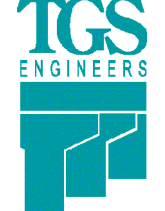

This 26th day of August, 2021.  8/26/2021
 Professional Land Surveyor L-4775

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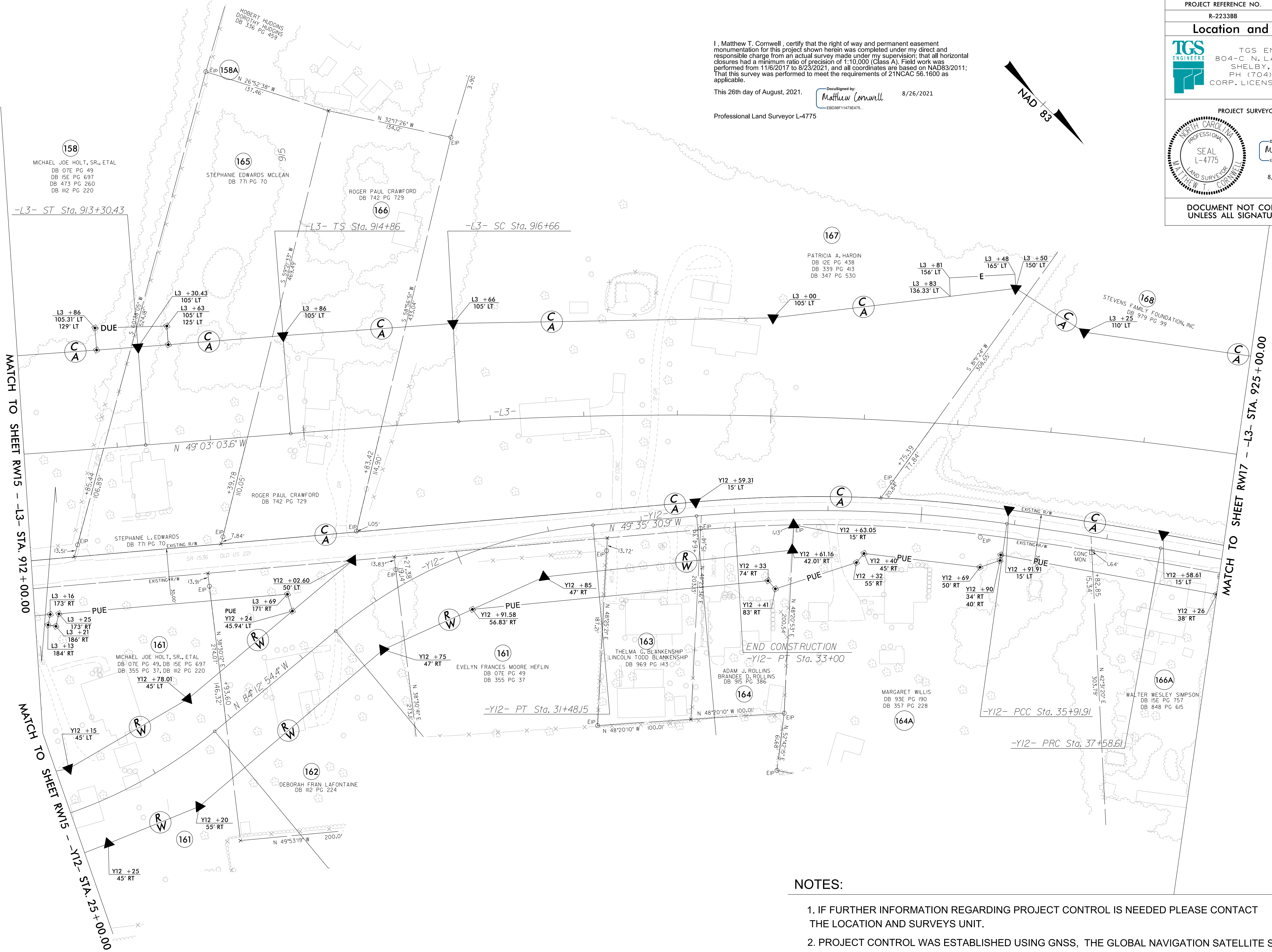
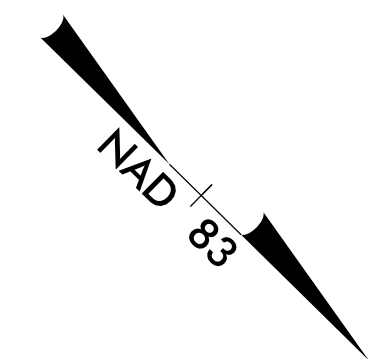
REVISIONS

25-AUG-2021 11:37
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 mcornewell

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW16
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
 DocuSigned by: Matthew Cornwell EBO08F11473E475... 8/26/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Matthew T. Cornwell, 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 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 26th day of August, 2021.
 DocuSigned by:
Matthew Cornwell
 EBO08F11473E475...
 8/26/2021
 Professional Land Surveyor L-4775



REVISIONS

25-AUG-2021 11:38
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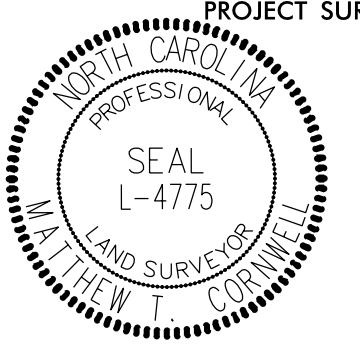
NOTES:

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3. RIGHT OF WAY MONUMENTATION ESTABLISHED 11/6/2017 TO 8/23/2021 .

8/2021

CURVE DATA FOR -L3-

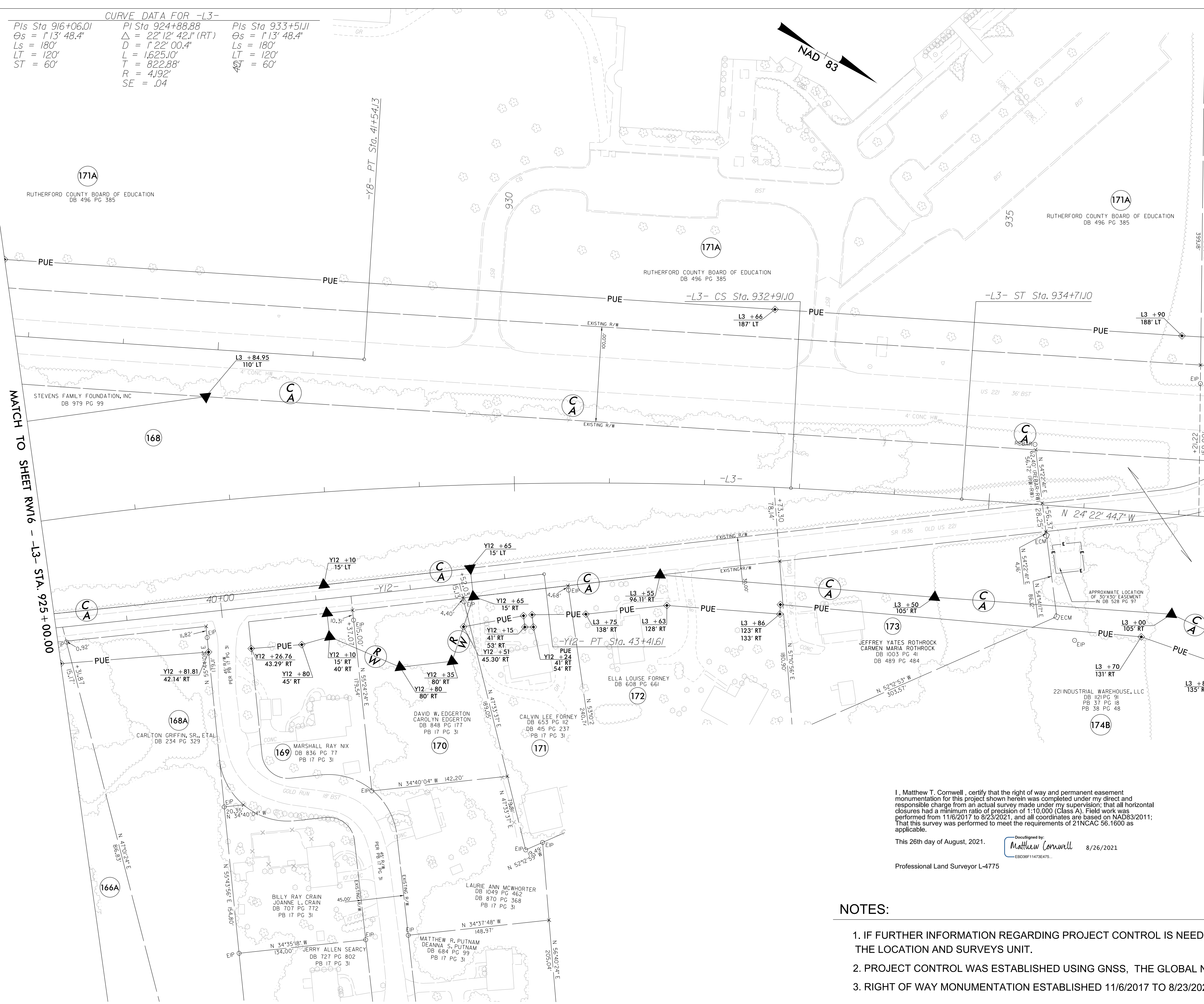
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$L_s = 180'$	$D = 1^\circ 22' 00.4''$	$L_s = 180'$
$LT = 120'$	$L = 1,625.10'$	$LT = 120'$
$ST = 60'$	$T = 822.88'$	$ST = 60'$
	$R = 4,192'$	
	$SE = .04$	

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW17
Location and Surveys	
 <p>TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275</p>	
PROJECT SURVEYOR	
 <p>DocuSigned by: Matthew Cornwell E0309F1473E475...</p>	
8/26/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS

MATCH TO SHEET RW16 - L3- STA. 925 + 00.00

MATCH TO SHEET RW18 - L3- STA. 938 + 00.00



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This 26th day of August, 2021.  8/26/2021

Professional Land Surveyor L-4775

NOTES:

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3. RIGHT OF WAY MONUMENTATION ESTABLISHED 11/6/2017 TO 8/23/2021 .

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 mccornwell AT MCCORNWELL LLP




NOTES:

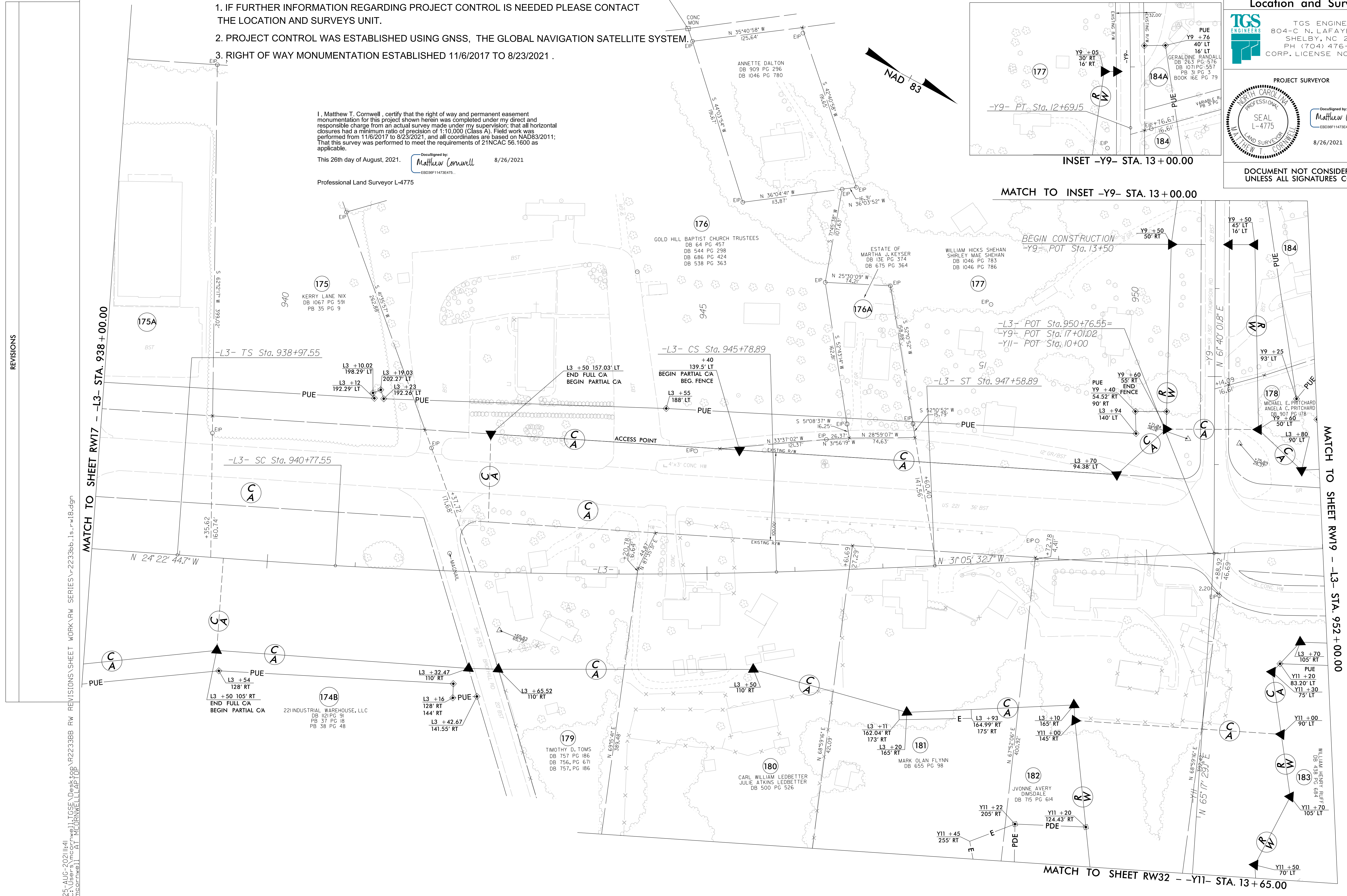
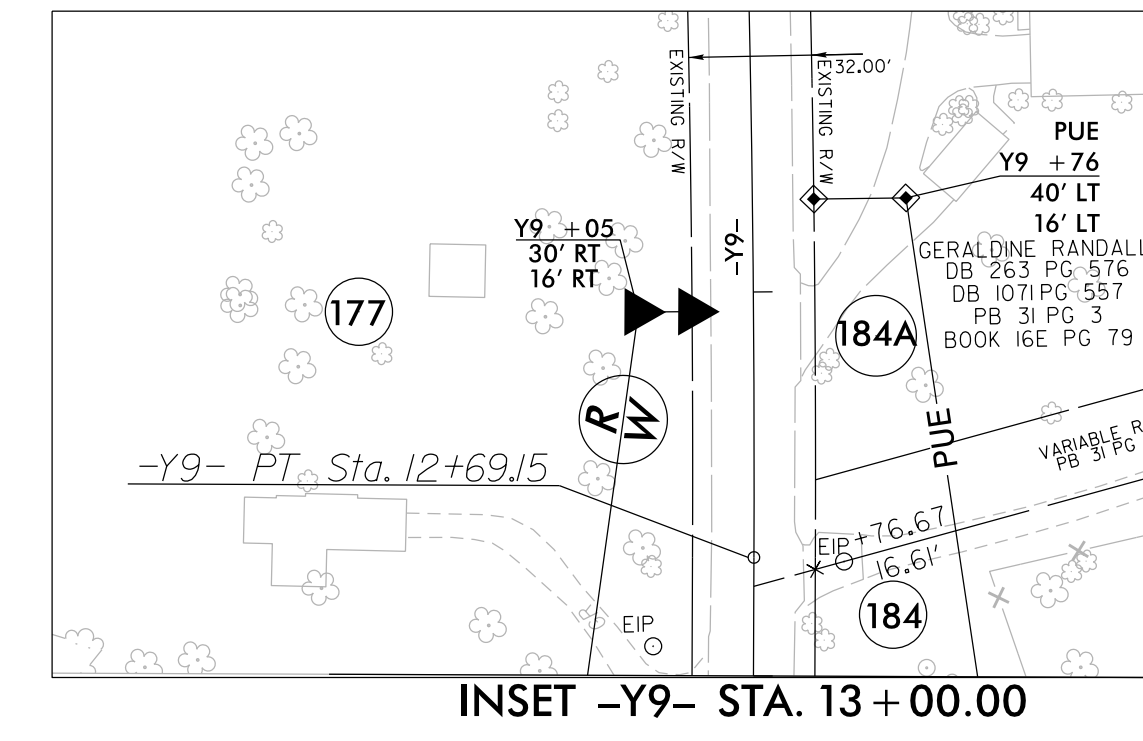
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This 26th day of August, 2021.  8/26/2021

Professional Land Surveyor L-4775

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW18
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
	
DocuSigned by:  EBI0306114736475 8/26/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



REVISIONS

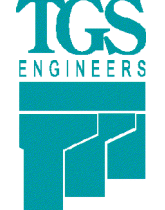


25-AUG-2021 14:41
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 AT MTCORNEWELL\TOP

MATCH TO SHEET RW17 -L3- STA. 938+00.00

MATCH TO SHEET RW19 -L3- STA. 952+00.00

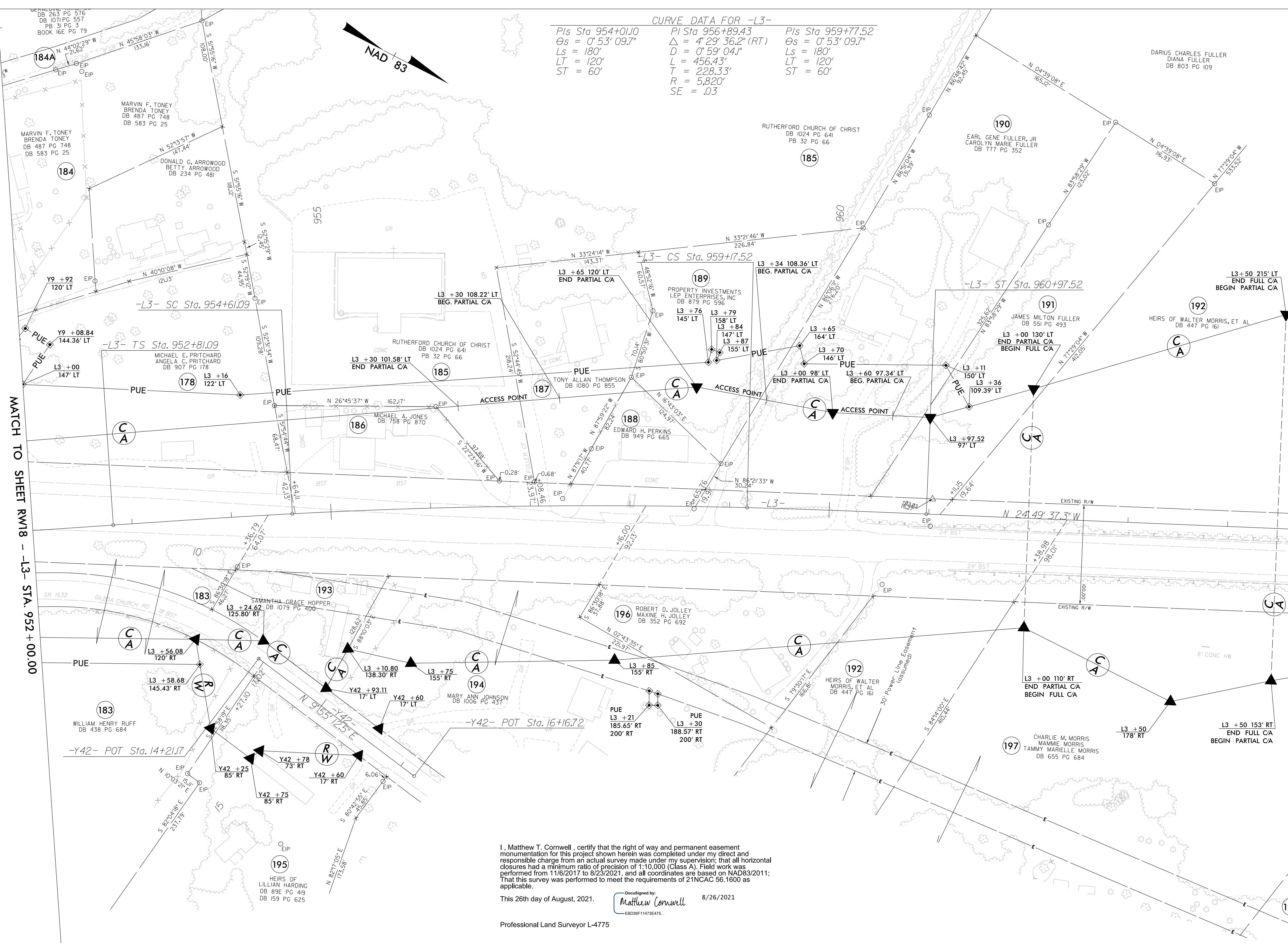
MATCH TO SHEET RW32 -Y11- STA. 13+65.00

8/2021

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW19
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
 NORTH CAROLINA PROFESSIONAL SEAL L-4775 M. T. CORNWELL LAND SURVEYOR	DocuSigned by:  EBO36F11473E475... 8/26/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

CURVE DATA FOR -L3-

<i>Pls Sta 954+01.00</i> $\Delta s = 0' 53' 09.7''$ $Ls = 180'$ $LT = 120'$ $ST = 60'$	<i>Pls Sta 956+89.43</i> $\Delta = 4' 29' 36.2'' (RT)$ $D = 0' 59' 04.1''$ $L = 456.43'$ $T = 228.33'$ $R = 5,820'$ $SE = .03$	<i>Pls Sta 959+77.52</i> $\Delta s = 0' 53' 09.7''$ $Ls = 180'$ $LT = 120'$ $ST = 60'$
--	--	--



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This 26th day of August, 2021.
 DocuSigned by:

 EBO36F11473E475... 8/26/2021

Professional Land Surveyor L-4775

NOTES:

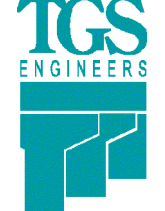


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3. RIGHT OF WAY MONUMENTATION ESTABLISHED 11/6/2017 TO 8/23/2021 .

REVISIONS

MATCH TO SHEET RW18 - L3 - STA. 952 + 00.00

MATCH TO SHEET RW20 - L3 - STA. 965 + 00.00

25-AUG-2021 14:43
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 AT MCCORNWELLLAPTOP

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW20
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
 DocuSigned by:  EBD36F11473E475 8/26/2021	
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This 26th day of August, 2021.
 DocuSigned by:

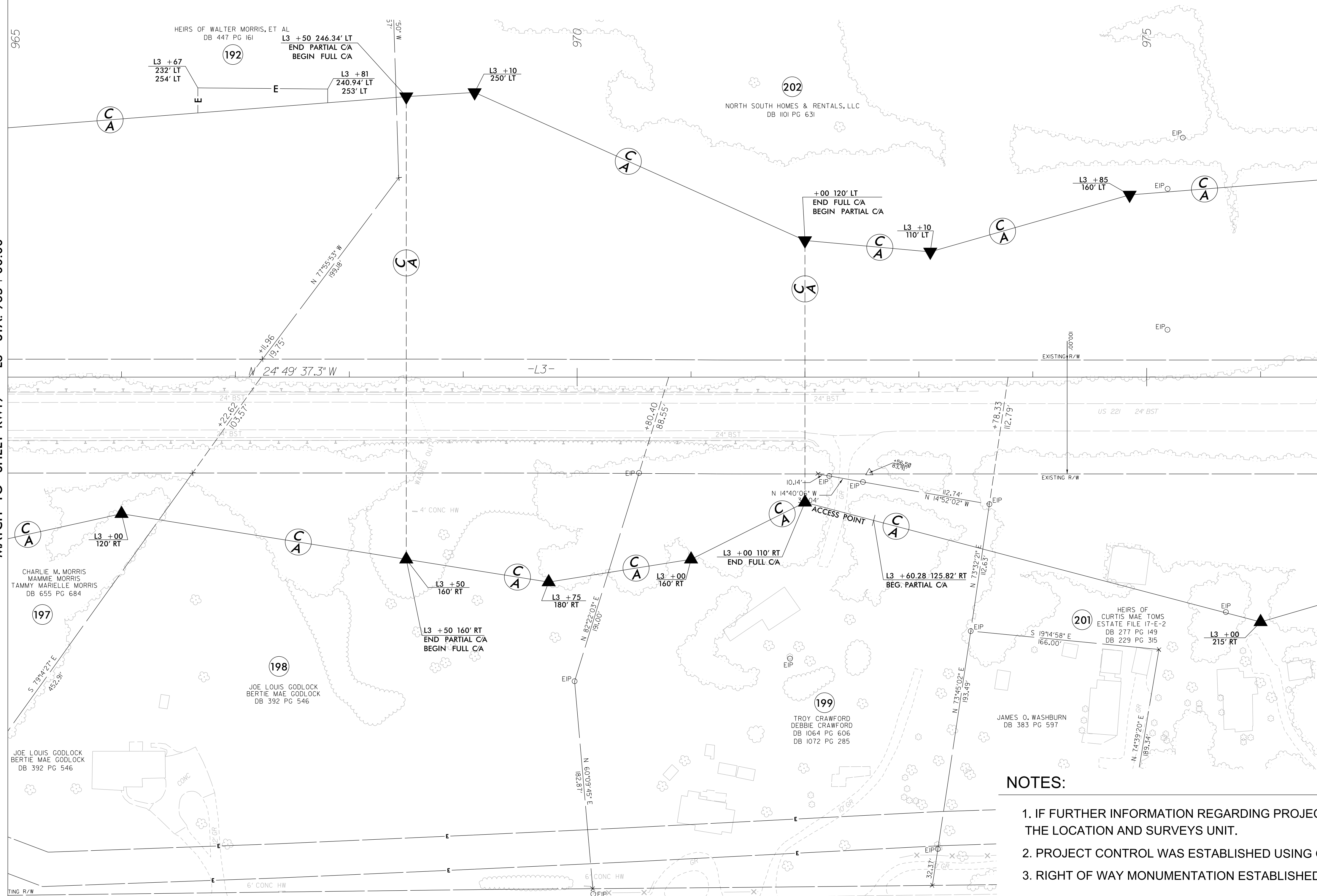
 EBD36F11473E475
 8/26/2021

Professional Land Surveyor L-4775

REVISIONS

MATCH TO SHEET RW19 - L3- STA. 965+00.00

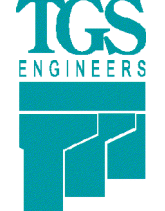

MATCH TO SHEET RW21 - L3- STA. 976+50.00

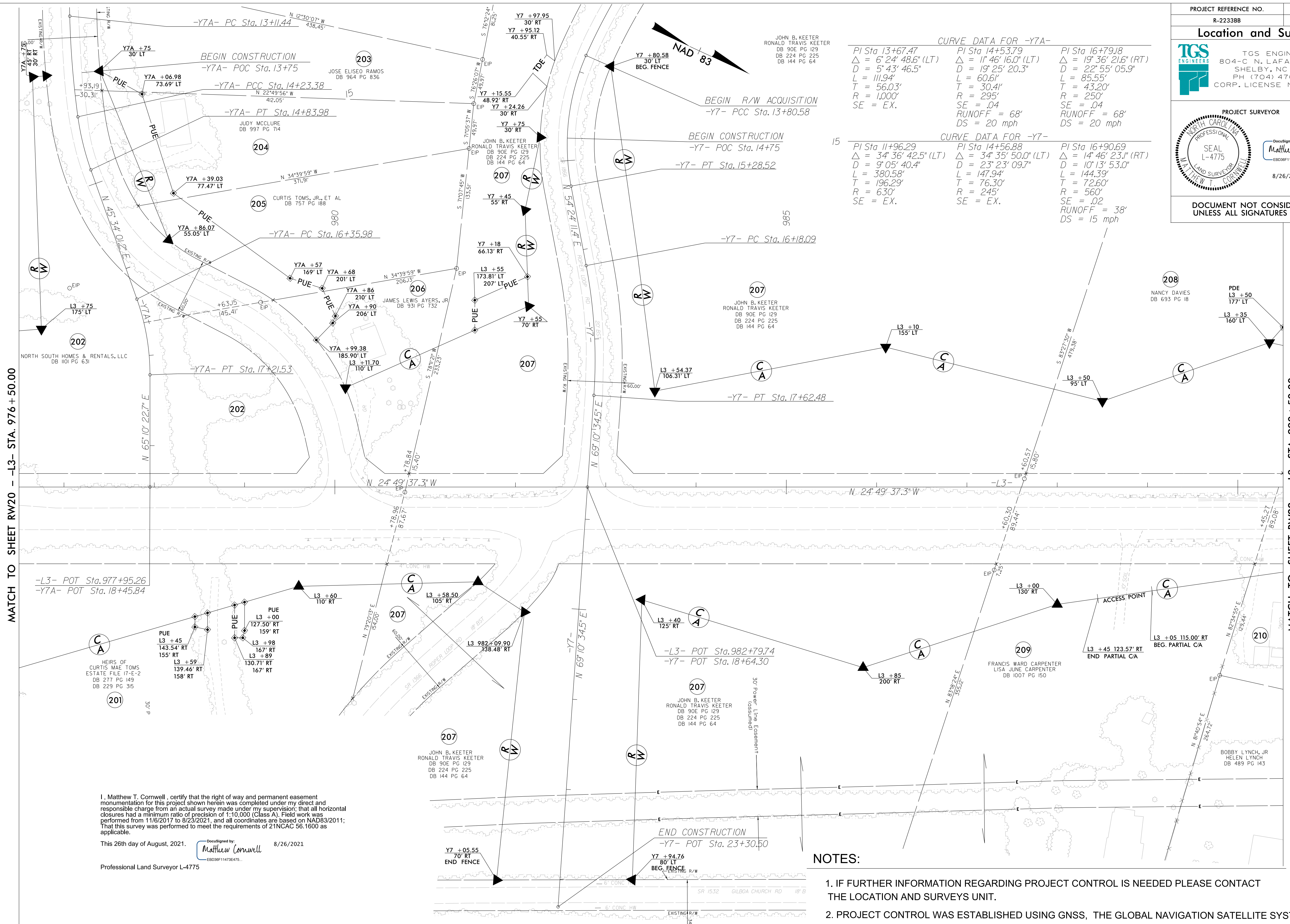


NOTES:

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 11/6/2017 TO 8/23/2021 .

25-AUG-2021 14:45
 C:\Users\mccornwell1\OneDrive\Work\Projects\R2233BB\RW REVISIONS\Sheet\WORK\RW SERIES\R2233BB\1s_rvw20.dgn
 mccornwell1 AT MCCORNWELL LLP

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW21
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
 SEAL L-4775 MATTHEW T. CORNWELL	DocuSigned by: Matthew Cornwell E8036F11473E475 8/26/2021
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



CURVE DATA FOR -Y7A-

PI Sta 13+67.47 $\Delta = 6^{\circ} 24' 48.6''$ (LT) D = 5' 43' 46.5" L = 111.94' T = 56.03' R = 1,000' SE = EX.	PI Sta 14+53.79 $\Delta = 11^{\circ} 46' 16.0''$ (LT) D = 19' 25' 20.3" L = 60.61' T = 30.41' R = 295' SE = .04 RUNOFF = 68' DS = 20 mph	PI Sta 16+79.18 $\Delta = 19^{\circ} 36' 21.6''$ (RT) D = 22' 55' 05.9" L = 85.55' T = 43.20' R = 250' SE = .04 RUNOFF = 68' DS = 20 mph
--	--	--

CURVE DATA FOR -Y7-


PI Sta 11+96.29 $\Delta = 3^{\circ} 36' 42.5''$ (LT) D = 9' 05' 40.4" L = 380.58' T = 196.29' R = 630' SE = EX.	PI Sta 14+56.88 $\Delta = 3^{\circ} 35' 50.0''$ (LT) D = 23' 23' 09.7" L = 147.94' T = 76.30' R = 245' SE = EX.	PI Sta 16+90.69 $\Delta = 14^{\circ} 46' 23.1''$ (RT) D = 10' 13' 53.0" L = 144.39' T = 72.60' R = 560' SE = .02 RUNOFF = 38' DS = 15 mph
---	---	---

REVISIONS

MATCH TO SHEET RW20 - -L3- STA. 976 + 50.00

MATCH TO SHEET RW22 - -L3- STA. 990 + 50.00




I, Matthew T. Cornwell, 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 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 26th day of August, 2021.  8/26/2021
 Professional Land Surveyor L-4775


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 11/6/2017 TO 8/23/2021 .

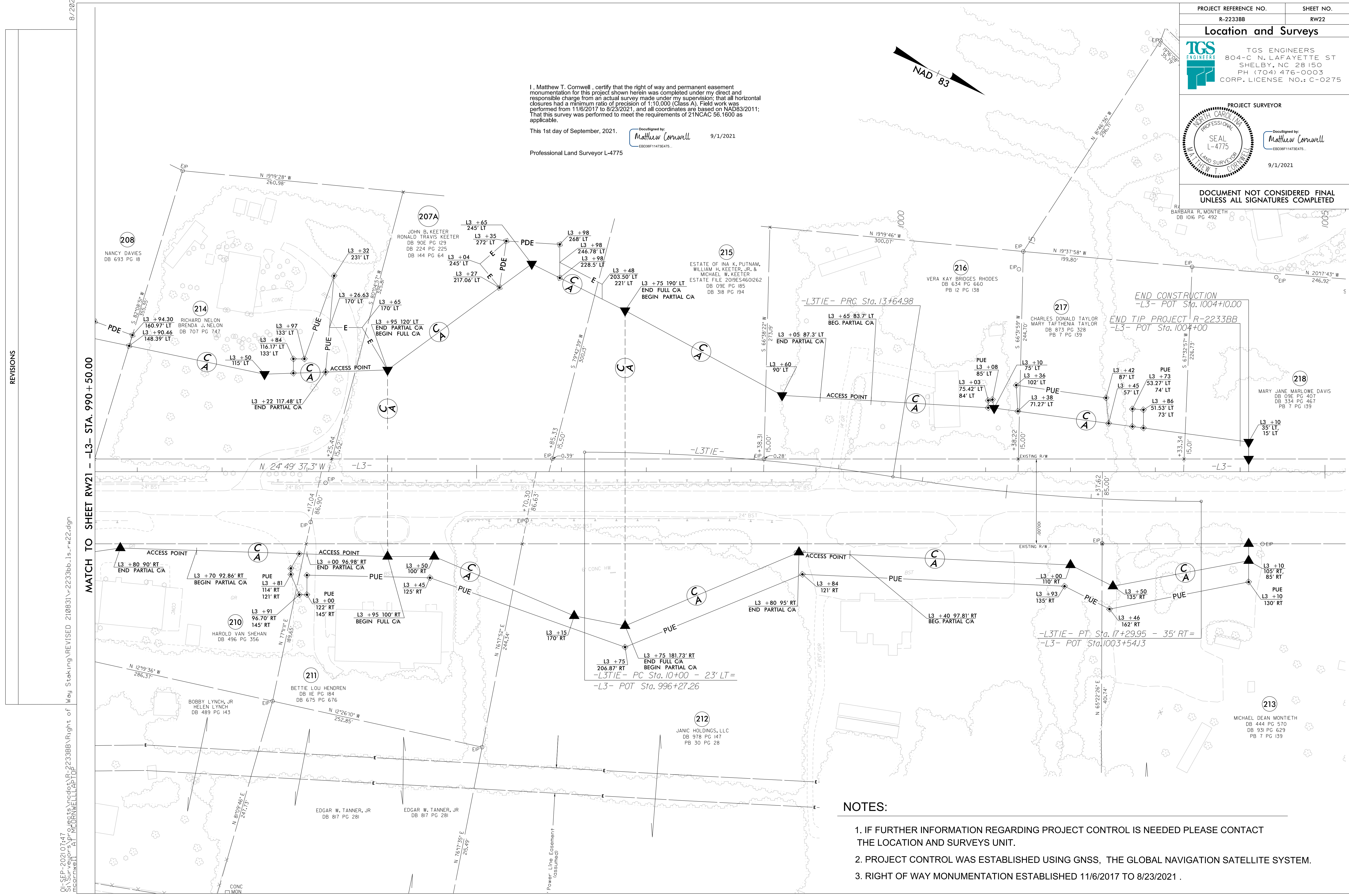
25-AUG-2021 11:46
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 MATTHEW T. CORNWELL
 8/26/2021

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW22
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
 SEAL L-4775 PROFESSIONAL LAND SURVEYOR MATTHEW T. CORNWELL	
DocuSigned by:  EBD30F11473E475 9/1/2021	

I, Matthew T. Cornwell, 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 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1st day of September, 2021.
 DocuSigned by:

 EBD30F11473E475
 9/1/2021
 Professional Land Surveyor L-4775

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 11/6/2017 TO 8/23/2021 .


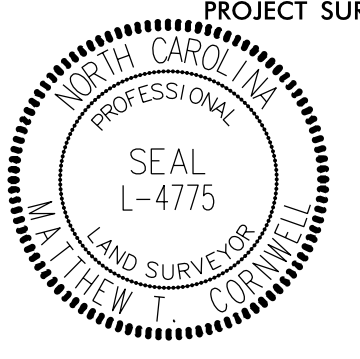
REVISIONS

MATCH TO SHEET RW21 - L3- STA. 990+50.00

01-SEP-2021 07:47
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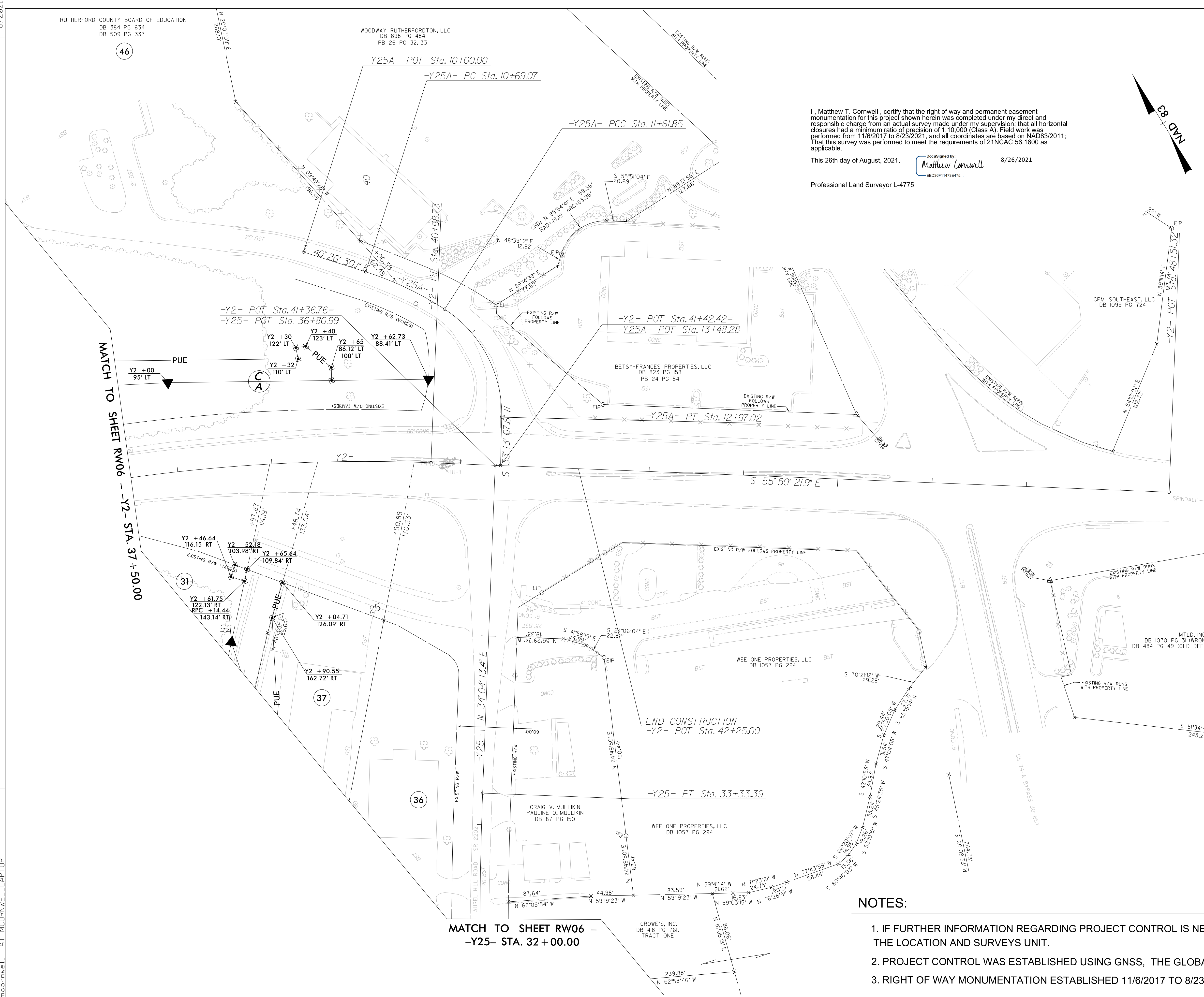
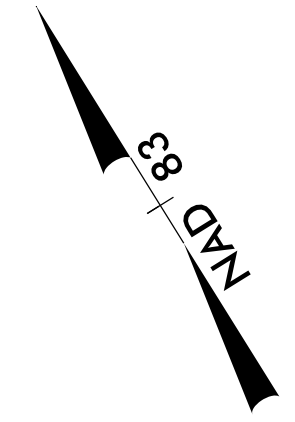
RUTHERFORD COUNTY BOARD OF EDUCATION
DB 384 PG 634
DB 509 PG 337

WOODWAY RUTHERFORD, LLC
DB 898 PG 484
PB 26 PG 32, 33

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW24
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
 DocuSigned by: Matthew Cornwell EBD36F11473E475 8/26/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Matthew T. Cornwell, 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 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 26th day of August, 2021.
 DocuSigned by:
Matthew Cornwell
 EBD36F11473E475
 8/26/2021
 Professional Land Surveyor L-4775



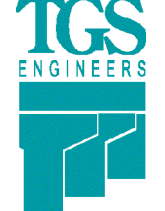

CURVE DATA FOR -Y2-
 PI Sta 37+31.27
 $\Delta = 21^\circ 55' 01.6''$ (RT)
 $D = 3^\circ 12' 25.9''$
 $L = 683.37'$
 $T = 345.9'$
 $R = 1,786.4'$
 $SE = .04$
 $RUNOFF = 156.00'$

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 11/6/2017 TO 8/23/2021 .

REVISIONS

25-AUG-2021 12:01
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 mccornwell

PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	RW26
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
	
Documented by: Matthew Cornwell EBO30611473E475 9/1/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Matthew T. Cornwell, 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 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 1st day of September, 2021. Documented by:
Matthew Cornwell 9/1/2021
 EBO30611473E475
 Professional Land Surveyor L-4775

REVISIONS

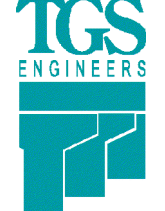

MATCH TO SHEET RW09 - -Y19- STA. 25 + 50.00

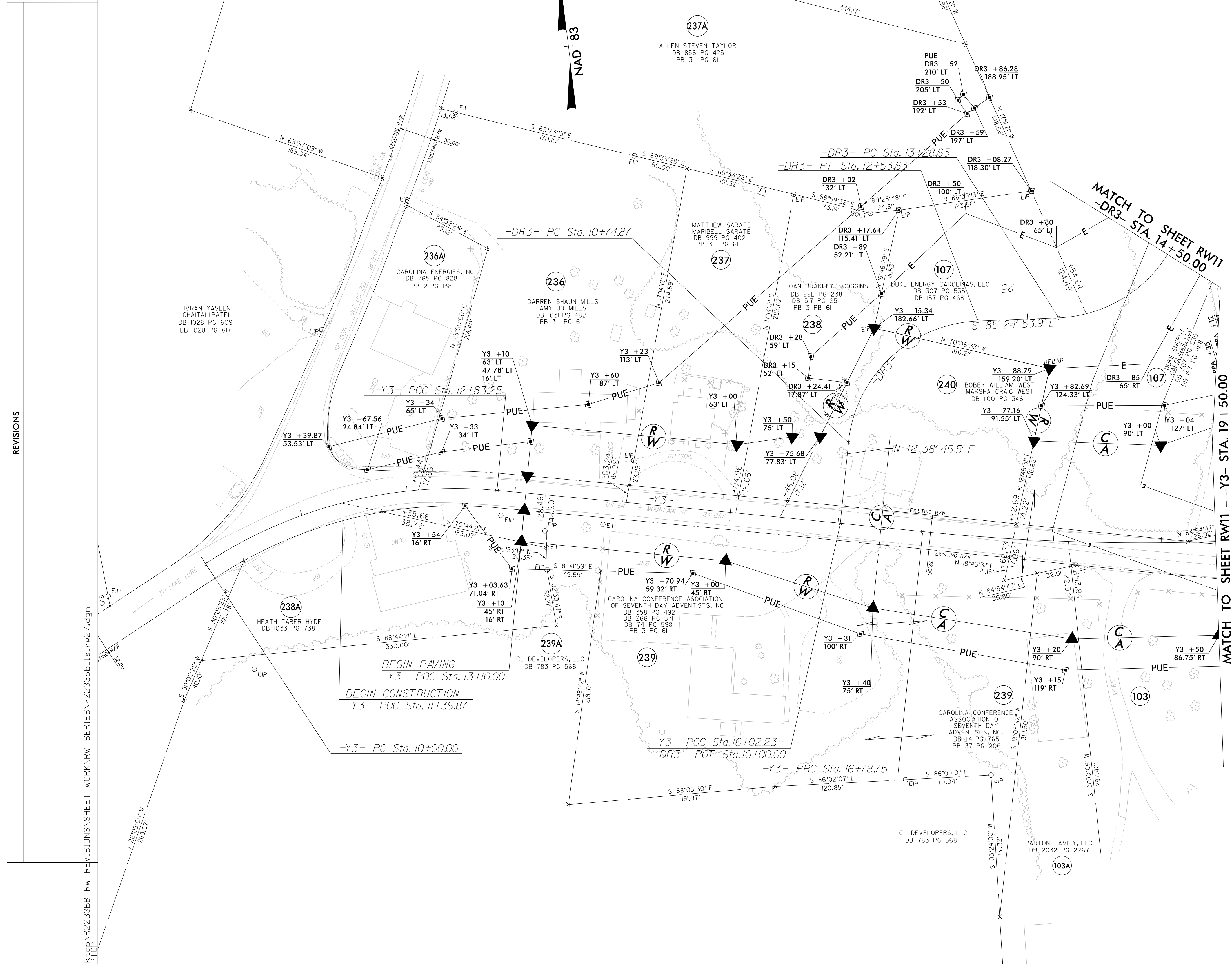


NOTES:

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 11/6/2017 TO 8/23/2021 .

01-SEP-2021 07:49
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PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	RW27
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
 DocuSigned by: Matthew Cornwell EBD036F11473E475 8/26/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



REVISIONS

8-AUG-2021 13:53:39
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 mccornwell

CURVE DATA FOR -Y3-

PI Sta	PI Sta	PI Sta
11+47.25	14+81.00	29+65.27
$\Delta = 38^\circ 38' 27.3''$ (RT)	$\Delta = 0^\circ 36' 50.8''$ (RT)	$\Delta = 65^\circ 38' 00.8''$ (LT)
$D = 13^\circ 38' 30.7''$	$D = 0^\circ 09' 19.0''$	$D = 2^\circ 52' 19.1''$
$L = 283.25'$	$L = 395.50'$	$L = 2,285.32'$
$T = 147.25'$	$T = 197.75'$	$T = 1,286.52'$
$R = 420.00'$	$R = 36,900.00'$	$R = 1,995.00'$
SE = EX.	SE = NC	SE = .04
DS = 35 mph	DS = 40 mph	RUNOFF = 144.00'
		DS = 40 mph

CURVE DATA FOR -DR3-

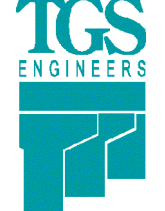

PI Sta	PI Sta
11+83.42	14+40.80
$\Delta = 81^\circ 56' 20.6''$ (RT)	$\Delta = 83^\circ 48' 19.5''$ (LT)
$D = 45^\circ 50' 11.8''$	$D = 45^\circ 50' 11.8''$
$L = 178.76'$	$L = 182.84'$
$T = 108.54'$	$T = 112.17'$
$R = 125.00'$	$R = 125.00'$

NOTES:

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3. RIGHT OF WAY MONUMENTATION ESTABLISHED 11/6/2017 TO 8/23/2021 .

I, Matthew T. Cornwell, 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 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 26th day of August, 2021.
 Professional Land Surveyor L-4775

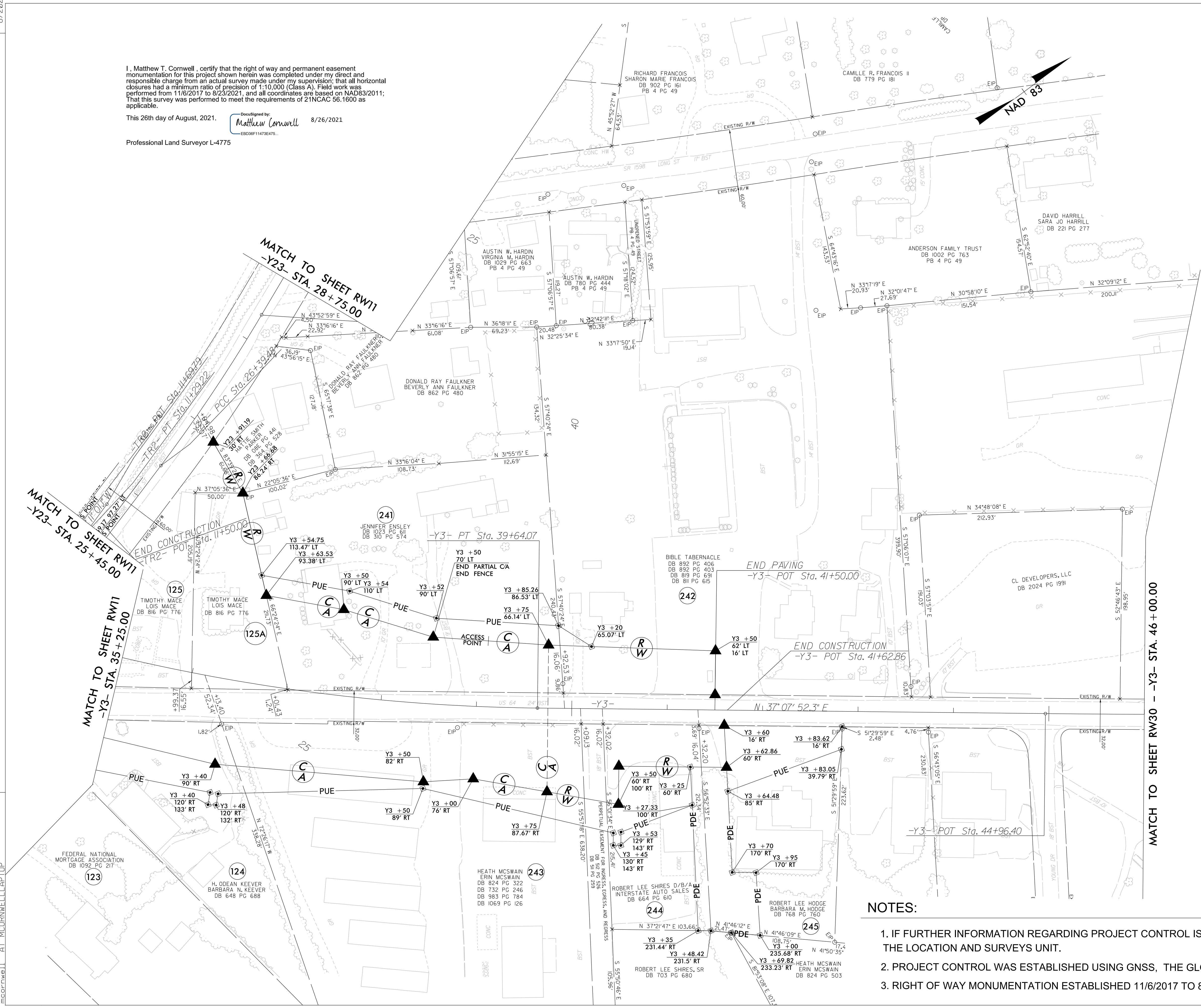
PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW28
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
	
DocuSigned by: Matthew Cornwell EBD056F1473E475... 8/26/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Matthew T. Cornwell, 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 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 26th day of August, 2021.

DocuSigned by:
Matthew Cornwell
 EBD056F1473E475...
 8/26/2021

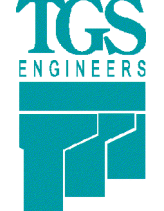

Professional Land Surveyor L-4775

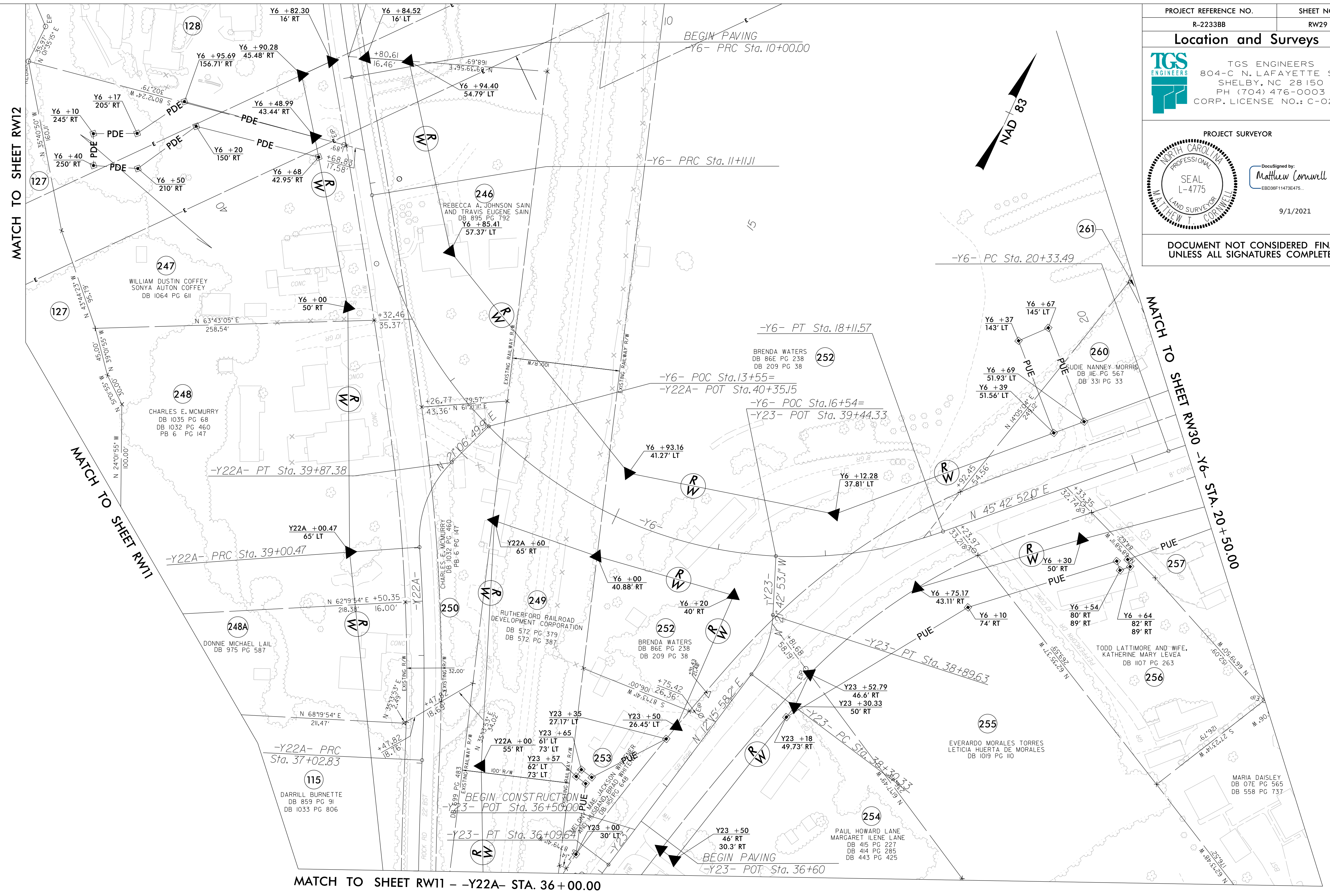


- NOTES:**
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
 2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
 3. RIGHT OF WAY MONUMENTATION ESTABLISHED 11/6/2017 TO 8/23/2021 .

REVISIONS

25-AUG-2021 13:40
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 MATTHEW CORNWELL

PROJECT REFERENCE NO.	SHEET NO.
R-2233BB	RW29
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
 DocuSigned by: Matthew Cornwell EBD06F11473E475... 9/1/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	




REVISIONS

01-SEP-2021 07:51:51
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 Matthew Cornwell
 Matthew Cornwell

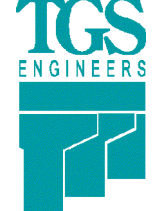

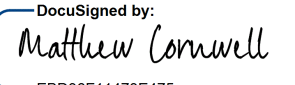
I, Matthew T. Cornwell, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; that this survey was performed to meet the requirements of 21NCA 56.1600 as applicable.

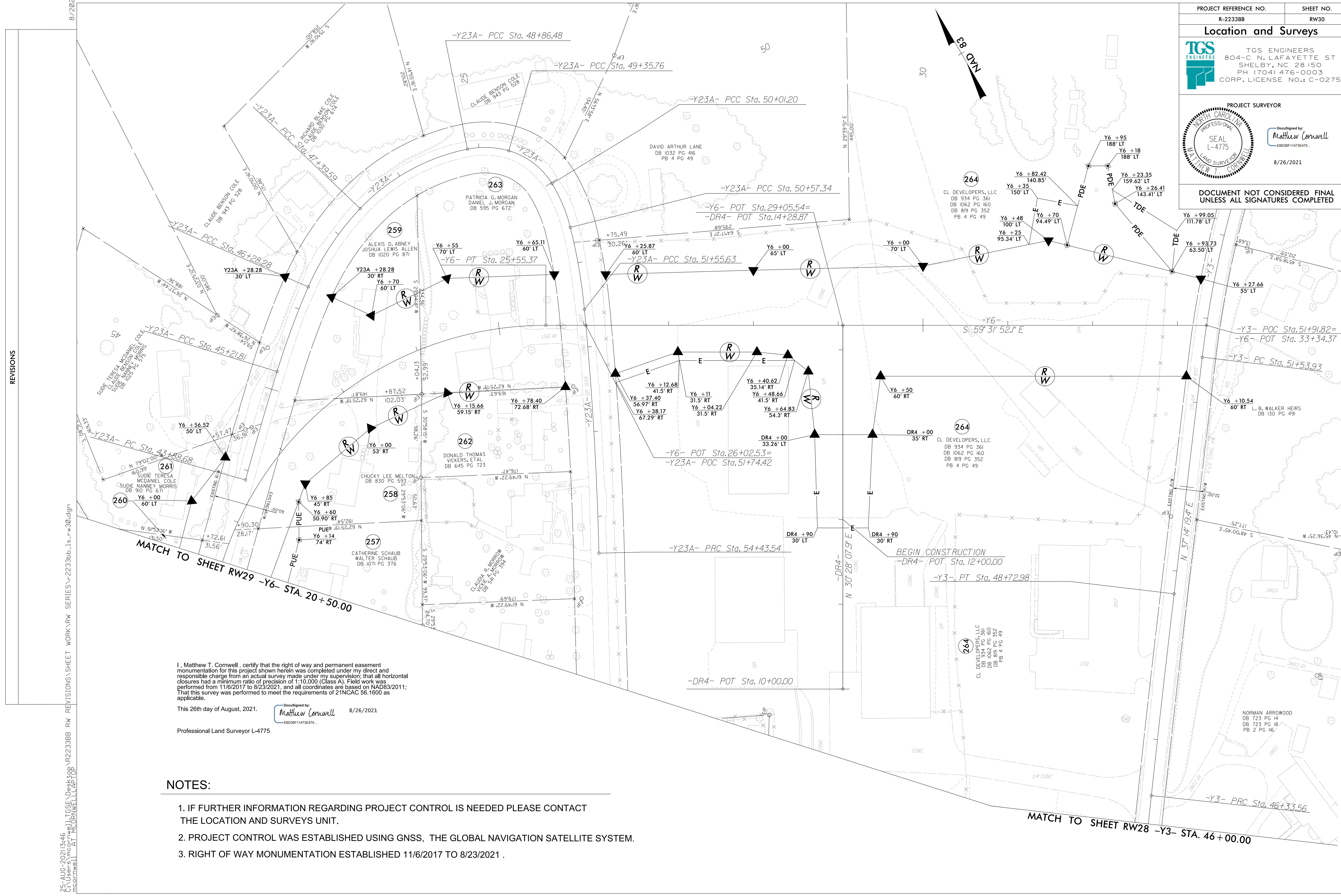
This 1st day of September, 2021.

DocuSigned by:

 EBD06F11473E475...
 9/1/2021
 Professional Land Surveyor L-4775


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 11/6/2017 TO 8/23/2021 .

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW30
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
 DocuSigned by:  EBD309F11473E475... 8/26/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



I, Matthew T. Cornwell, 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 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

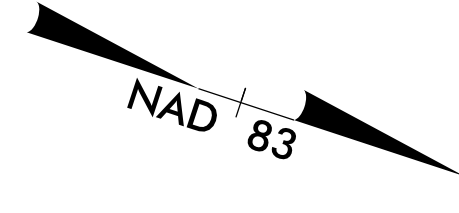
This 26th day of August, 2021.
 DocuSigned by:

 EBD309F11473E475...
 8/26/2021
 Professional Land Surveyor L-4775

- 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 11/6/2017 TO 8/23/2021.

REVISIONS
 8/26/2021
 AUG-2021 13:46
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 MATTHEW CORNWELL L.L.P.

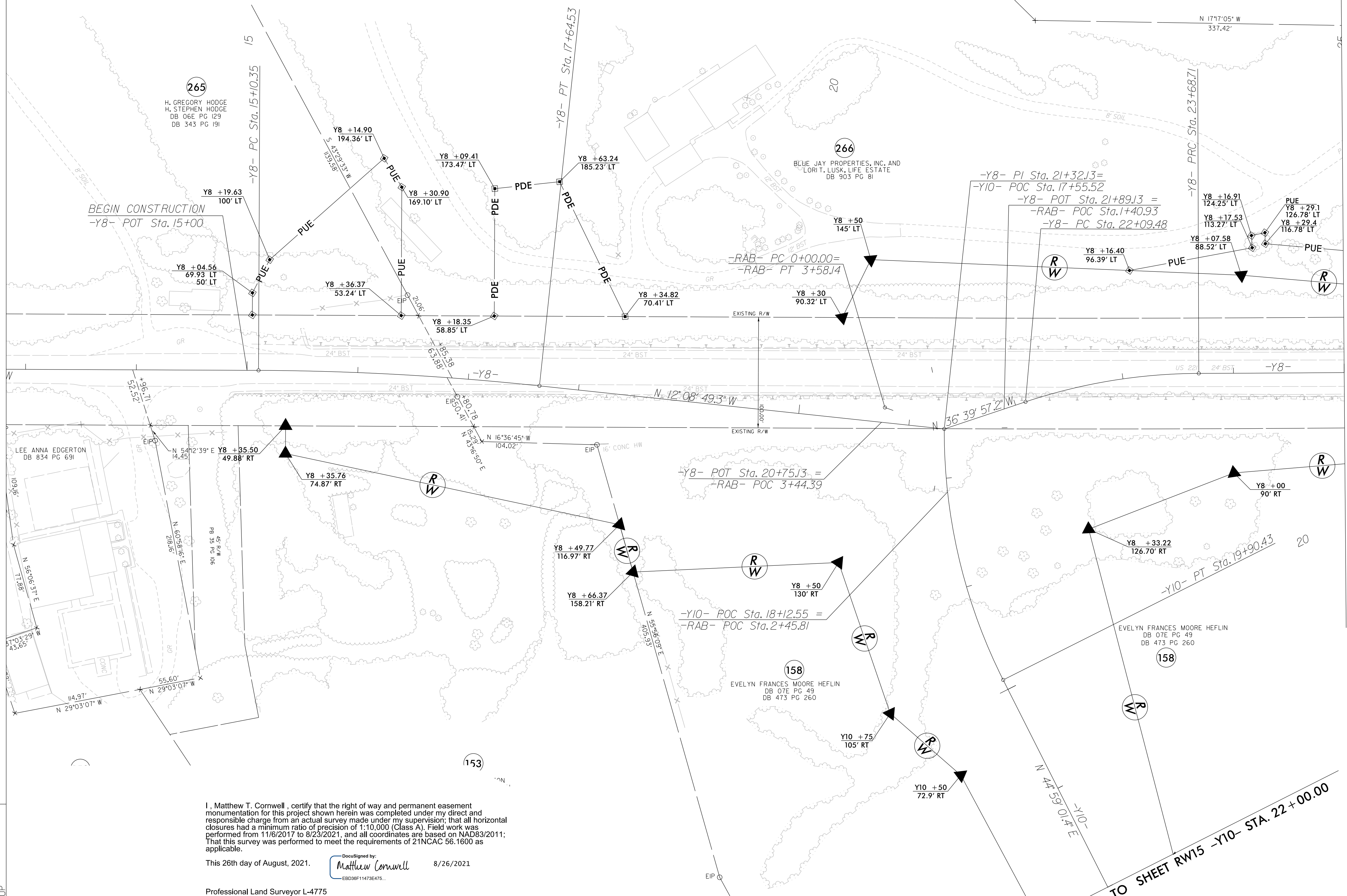
CURVE DATA FOR -Y8-

PI Sta 16+37.55 Δ = 5° 49' 31.0" (RT) D = 2' 17" 30.6" L = 254.18' T = 127.20' R = 2,500.00'	PI Sta 22+89.77 Δ = 18° 14' 44.9" (RT) D = 1' 27" 33.0" L = 159.22' T = 80.29' R = 500.00'	PI Sta 24+86.43 Δ = 0° 26' 26.8" (LT) D = 0' 11" 14.0" L = 235.44' T = 117.72' R = 30,605.00'	PI Sta 28+64.40 Δ = 3° 01' 15.1" (LT) D = 0° 34' 49.8" L = 520.39' T = 260.25' R = 9,870.00'
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PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW31
Location and Surveys	
TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
Documented by: Matthew Cornwell EBD09F11473E475 8/26/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

REVISIONS



MATCH TO SHEET RW31A -Y8- STA. 25 + 00.00

MATCH TO SHEET RW15 -Y10- STA. 22 + 00.00

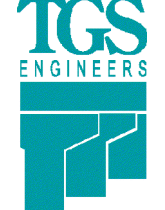


I, Matthew T. Cornwell, certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCA 56.1600 as applicable.

This 26th day of August, 2021. 8/26/2021
 EBD09F11473E475
 Professional Land Surveyor L-4775

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 11/6/2017 TO 8/23/2021 .


25-AUG-2021 13:47
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 mccornwell

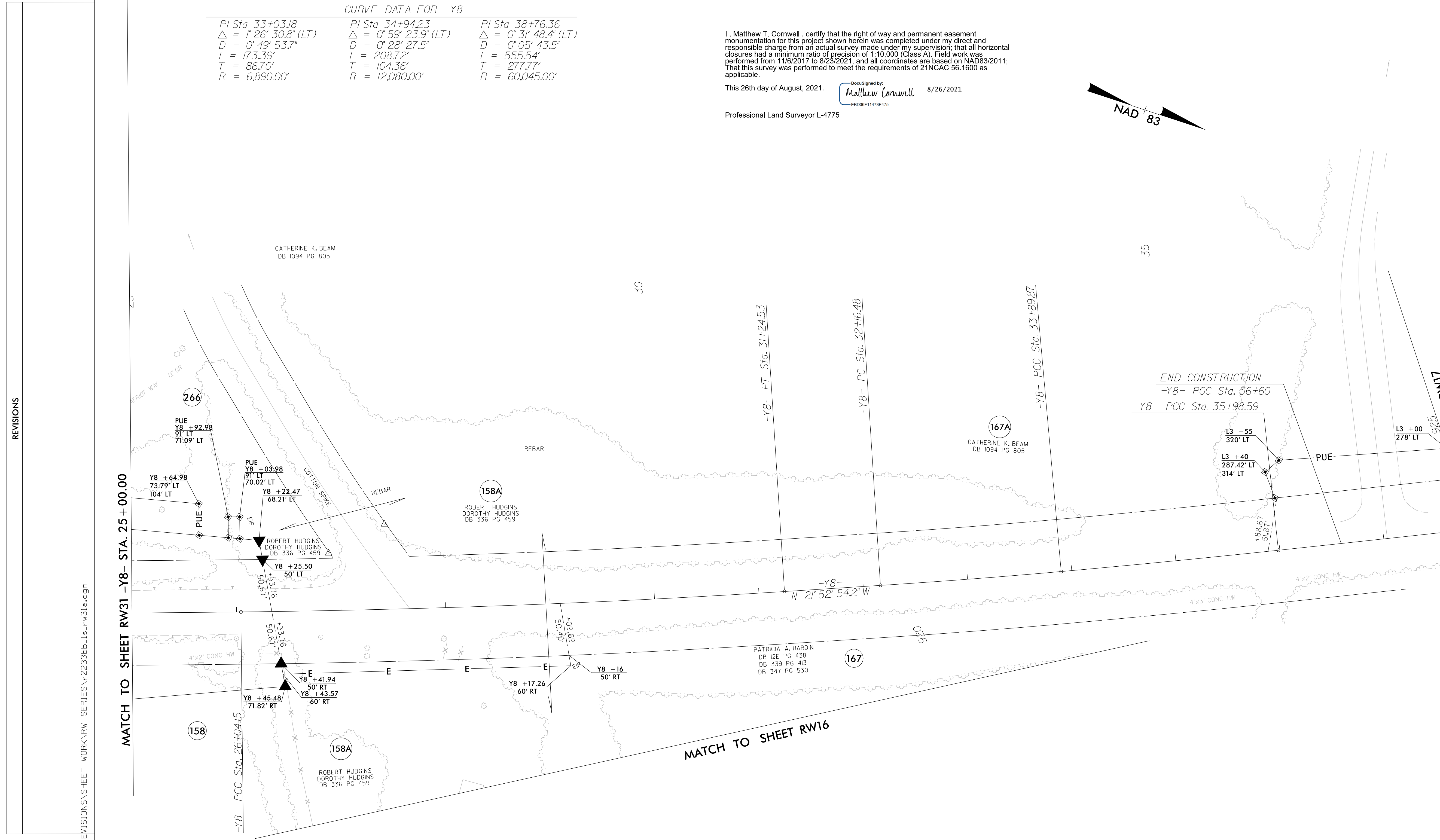
PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW31A
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
 SEAL L-4775 LAND SURVEYOR MATTHEW J. CORNWELL	
DocuSigned by:  EBD08F11473E475... 8/26/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

CURVE DATA FOR -Y8-

PI Sta 33+03.18 Δ = 1°26'30.8" (LT) D = 0°49'53.7" L = 173.39' T = 86.70' R = 6,890.00'	PI Sta 34+94.23 Δ = 0°59'23.9" (LT) D = 0°28'27.5" L = 208.72' T = 104.36' R = 12,080.00'	PI Sta 38+76.36 Δ = 0°31'48.4" (LT) D = 0°05'43.5" L = 555.54' T = 277.77' R = 60,045.00'
--	--	--

I, Matthew T. Cornwell, 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 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 26th day of August, 2021.
 DocuSigned by:

 EBD08F11473E475... 8/26/2021
 Professional Land Surveyor L-4775



REVISIONS

MATCH TO SHEET RW31 -Y8- STA. 25+00.00

MATCH TO SHEET RW16

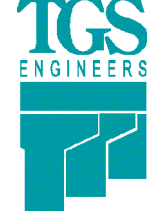

MATCH TO SHEET RW17

END CONSTRUCTION
 -Y8- POC Sta. 36+60
 -Y8- PCC Sta. 35+98.59

NOTES:

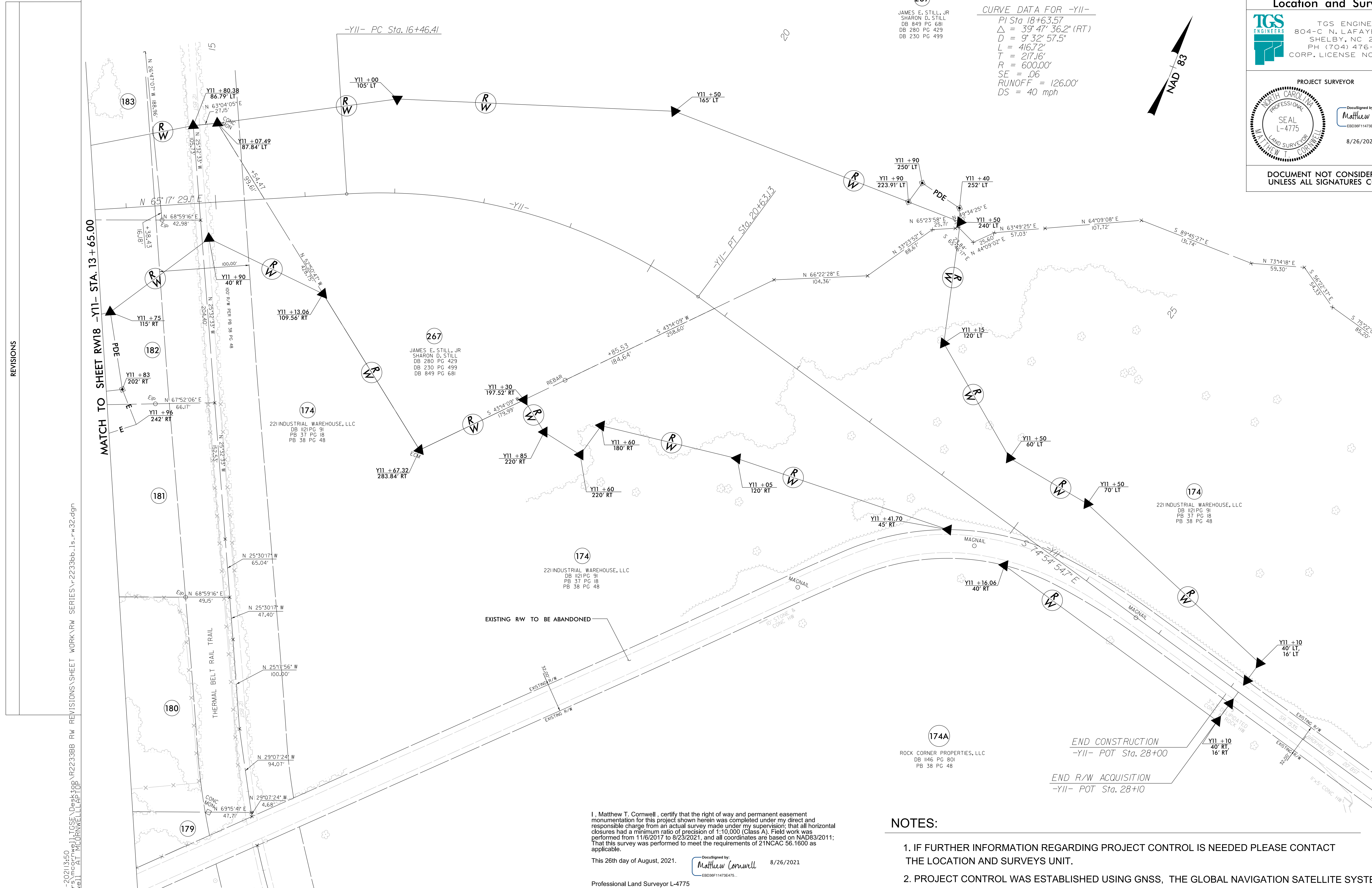
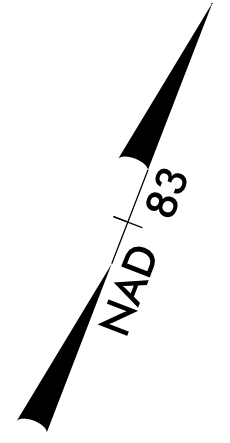
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 11/6/2017 TO 8/23/2021 .

25-AUG-2021 13:49
 C:\Users\mccornwell\OneDrive\Documents\TGS\Projects\R2233BB\RW REVISIONS\SHEET WORK\RW SERIES\R2233BB-1s-rw31a.dgn
 mccornwell AT MCCORNWELL L L P C

PROJECT REFERENCE NO. R-2233BB	SHEET NO. RW32
Location and Surveys	
 TGS ENGINEERS 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
 DocuSigned by: Matthew Cornwell EBO30F11473E475... 8/26/2021	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

(267)
 JAMES E. STILL, JR
 SHARON D. STILL
 DB 849 PG 681
 DB 280 PG 429
 DB 230 PG 499

CURVE DATA FOR -Y11-
 PI Sta. 18+63.57
 $\Delta = 39^{\circ} 47' 36.2''$ (RT)
 $D = 9^{\circ} 32' 57.5''$
 $L = 416.72'$
 $T = 217.16'$
 $R = 600.00'$
 $SE = .06$
 $RUNOFF = 126.00'$
 $DS = 40$ mph




MATCH TO SHEET RW18 -Y11- STA. 13 + 65.00

REVISIONS

8-AUG-2021 13:50
 C:\Users\mccornwell\OneDrive\Work\Projects\2233BB\RW REVISIONS\SHEET WORK\RW SERIES\R-2233BB-1s-rw32.dgn
 MATTHEW T. CORNWELL, L.L.P.

I, Matthew T. Cornwell, 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 11/6/2017 to 8/23/2021, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 26th day of August, 2021.  8/26/2021
 Professional Land Surveyor L-4775

NOTES:

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3. RIGHT OF WAY MONUMENTATION ESTABLISHED 11/6/2017 TO 8/23/2021 .

END CONSTRUCTION
 -Y11- POT Sta. 28+00
 END R/W ACQUISITION
 -Y11- POT Sta. 28+10