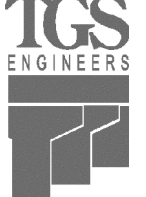
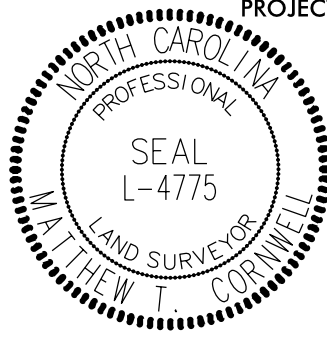



# SURVEY CONTROL SHEET

## W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
B-5869	RW02C-2
<b>Location and Surveys</b>	
 <b>TGS ENGINEERS</b> 804-C N. LAFAYETTE ST SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275	
PROJECT SURVEYOR	
	
Documented by:  EBD036F11473E475 7/7/2021	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

### BASELINE

BL	POINT	DESC.	NORTH	EAST	ELEVATION
3		BL -3	732773.8226	1196394.5094	1058.98
1		GPS B5869-1	732478.7500	1196679.5310	1065.08
2		GPS B5869-2	732085.3810	1197265.7290	1077.12
4		BL -4	731816.9634	1197606.0411	1100.32
5		BL -5	731470.8036	1197854.4160	1123.47
6		BL -6	731215.6045	1198153.6185	1143.06
7		BL -7	731077.7601	1198883.5878	1153.93
BY2					
POINT	DESC.	NORTH	EAST	ELEVATION	
E06		BL -6	731215.6045	1198153.6185	1143.06
9		BY2-9	730871.4189	1198125.5996	1129.96

### BENCHMARKS

.....  
 BM1 ELEVATION = 1062.91  
 N 732978 E 1196468  
 BL STATION 5+00.00  
 N 19+53'21.9" E DIST 216.72  
 RR SPIKE IN BASE 20' YELLOW PINE  
 .....

.....  
 BM2 ELEVATION = 1112.34  
 N 731580 E 1197522  
 BL STATION 21+93.00 207 RIGHT  
 CHISELED SQUARE IN CORNER TRANSFORMER  
 CONCRETE PAD  
 .....

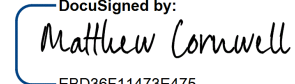
.....  
 BM3 ELEVATION = 1154.11  
 N 731162 E 1199030  
 BL STATION 36+12.00  
 N 60+02'13.5" E DIST 168.44  
 RR SPIKE IN BASE 24' TULIP POPLAR  
 .....

I, Matthew T. Cornwell, PLS, certify that the Project Control was verified under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: **AA**  
 Type of GPS field procedure: **RTN**  
 Dates of survey: 2/26/2015  
 Datum/Epoch: **NAD83/2011**  
 Published/Fixed-control use: **N/A**  
 Localized around: **GPS B-5869-2**  
 Northing: **732085.381**  
 Easting: **1197265.729**  
 Combined grid factor: **0.99986119**  
 Geoid model: **12NC**  
 Units: **US Survey Feet**

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed in April 2017, and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCA 56.1600 as applicable.

This 7th day of July, 2021.

Documented by:  
  
 EBD036F11473E475  
 Professional Land Surveyor L-4775

### EXISTING CENTERLINE ALIGNMENTS

EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	732949.490	1196364.315							
CURVE			S 21°37'41.3" E	246.32	01°24'40.9"(LT)	00°34'22.6"	246.33	123.17	10000.00
PCC	732720.511	1196455.104							
CURVE			S 25°54'51.3" E	111.16	07°09'39.1"(LT)	06°26'15.0"	111.23	55.69	890.00
PCC	732620.527	1196503.684							
CURVE			S 42°38'34.7" E	320.74	26°17'47.6"(LT)	08°07'37.4"	323.57	164.69	705.00
PCC	732384.598	1196720.959							
CURVE			S 61°36'33.5" E	171.31	11°38'01.0"(LT)	06°46'50.0"	171.61	86.10	845.00
PT	732303.141	1196871.670							
LINE			S 67°25'38.5" E	429.42					
PC	732138.305	1197268.195							
CURVE			S 63°10'23.6" E	143.91	08°30'29.8"(RT)	05°54'24.4"	144.04	72.15	970.00
PCC	732073.359	1197396.617							
CURVE			S 47°09'57.7" E	303.50	23°30'21.8"(RT)	07°41'26.6"	305.64	155.00	745.00
PT	731867.015	1197619.185							
LINE			S 35°24'46.8" E	397.83					
PC	731542.786	1197849.713							
CURVE			S 38°14'46.0" E	83.53	05°39'58.3"(LT)	06°46'50.0"	83.57	41.82	845.00
PCC	731477.184	1197901.422							
CURVE			S 61°08'27.9" E	603.74	40°07'25.4"(LT)	06°30'39.2"	616.26	321.37	880.00
PCC	731185.785	1198430.185							
CURVE			S 82°09'19.2" E	149.60	01°54'17.3"(LT)	01°16'23.7"	149.60	74.81	4500.00
PT	731165.367	1198578.381							
LINE			S 83°06'27.9" E	516.91					
POT	731103.337	1199091.555							

EY POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	732644.425	1196914.775							
LINE			S 67°53'43.2" W	101.35					
PC	732606.289	1196820.879							
CURVE			S 63°43'58.7" W	43.55	08°19'29.0"(LT)	19°05'54.9"	43.59	21.83	300.00
PT	732587.016	1196781.826							
LINE			S 59°34'14.2" W	32.91					
PC	732570.348	1196753.449							
CURVE			S 49°44'30.6" W	167.29	19°39'27.1"(LT)	11°41'34.9"	168.11	84.89	490.00
PT	732462.239	1196625.783							

EY1 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	731289.409	1199129.765							
CURVE			N 74°07'05.2" W	240.15	02°24'50.7"(RT)	01°00'18.7"	240.16	120.10	5700.00
PT	731355.126	1198898.787							
LINE			N 72°54'39.8" W	1541.63					
PC	731808.143	1197425.220							
CURVE			N 73°24'54.0" W	211.09	01°00'28.4"(LT)	00°28'38.9"	211.09	105.55	12000.00
PCC	731868.396	1197222.914							
CURVE			N 74°36'21.9" W	59.96	01°22'27.5"(LT)	02°17'30.6"	59.97	29.98	2500.00
PCC	731884.313	1197165.101							
CURVE			N 80°15'19.6" W	478.87	09°55'27.9"(LT)	02°04'11.5"	479.47	240.34	2768.10
PT	731965.366	1196693.137							
LINE			N 85°13'03.6" W	27.98					
POT	731967.698	1196665.258							

### 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.