

REVISIONS

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S:\Surveyors\projects\ncdot\BR-0099\MTC\CONTROL SHEETS\br-0099-1s-rw02c-2.dgn
mccornwell AT MCCORNWELL LLP

SURVEY CONTROL SHEET
W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EXISTING CENTERLINE ALIGNMENTS

EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	573082.624	1183822.390							
LINE			N 36°23'25.5" E	233.28					
PC	573270.412	1183960.792							
CURVE			N 36°08'37.3" E	633.34	00°29'36.4"(LT)	00°04'40.5"	633.34	316.67	73539.16
PT	573781.861	1184334.344							
LINE			N 35°53'49.0" E	587.36					
PC	574257.665	1184678.730							
CURVE			N 38°00'41.6" E	151.34	04°13'45.1"(RT)	02°47'38.1"	151.37	75.72	2050.73
PCC	574376.901	1184771.926							
CURVE			N 42°10'46.9" E	87.67	04°06'25.5"(RT)	04°41'01.4"	87.69	43.86	1223.29
PCC	574441.868	1184830.793							
CURVE			N 45°00'02.6" E	107.45	01°32'06.0"(RT)	01°25'42.6"	107.46	53.73	4010.94
PT	574517.847	1184906.774							
LINE			N 45°46'05.6" E	219.29					
PC	574670.818	1185063.903							
CURVE			N 45°52'22.1" E	138.32	00°12'32.9"(RT)	00°09'04.3"	138.32	69.16	37893.30
PCC	574767.126	1185163.190							
CURVE			N 45°38'55.6" E	155.64	00°39'25.8"(LT)	00°25'20.0"	155.64	77.82	13569.69
PT	574875.929	1185274.486							
LINE			N 45°19'12.7" E	188.30					
POT	575008.334	1185408.379							

EY1 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	574588.221	1182528.876							
LINE			S 75°38'25.9" E	2924.64					
PC	573862.897	1185362.143							
CURVE			S 75°57'07.6" E	329.87	00°37'23.5"(LT)	00°11'20.1"	329.88	164.94	30327.83
PCC	573782.826	1185682.152							
CURVE			S 79°32'33.5" E	366.40	06°33'28.1"(LT)	01°47'19.7"	366.60	183.50	3203.00
PCC	573716.323	1186042.467							
CURVE			S 88°34'53.9" E	577.37	11°31'12.7"(LT)	01°59'31.0"	578.34	290.15	2876.37
PT	573702.032	1186619.656							

EY2 POINT	N	E	BEARING	DIST
POT	573134.261	1183860.447		
LINE			S 11°29'18.3" E	94.86
POT	573041.304	1183879.340		

RPA POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	574311.799	1184719.290							
LINE			S 55°27'35.3" E	269.24					
PC	574159.144	1184941.070							
CURVE			S 56°39'19.0" E	149.08	02°23'27.4"(LT)	01°36'13.1"	149.09	74.56	3572.85
PCC	574077.197	1185065.611							
CURVE			S 60°04'53.5" E	124.37	04°27'41.6"(LT)	03°35'11.5"	124.40	62.23	1597.53
PCC	574015.167	1185173.404							
CURVE			S 63°10'20.6" E	107.92	01°43'12.6"(LT)	01°35'37.9"	107.92	53.97	3594.76
PCC	573966.462	1185269.708							
CURVE			S 66°42'50.1" E	91.76	05°21'46.5"(LT)	05°50'33.5"	91.79	45.93	980.65
PCC	573930.189	1185353.989							
CURVE			S 72°49'08.3" E	353.24	06°50'49.9"(LT)	01°56'14.1"	353.45	176.94	2957.60
PT	573825.845	1185691.468							

RPB POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	574402.343	1183432.373							
CURVE			S 75°56'20.5" E	108.27	00°35'49.3"(LT)	00°33'05.2"	108.27	54.14	10390.38
PCC	574376.038	1183537.399							
CURVE			S 82°07'56.2" E	304.49	11°47'22.1"(LT)	03°51'54.3"	305.02	153.05	1482.39
PCC	574334.358	1183839.019							
CURVE			N 89°02'57.1" E	168.07	05°50'51.3"(LT)	03°28'40.1"	168.14	84.14	1647.48
PCC	574337.147	1184007.064							
CURVE			N 85°49'59.9" E	184.25	00°35'03.0"(LT)	00°19'01.3"	184.25	92.13	18072.01
PCC	574350.534	1184190.828							
CURVE			N 85°48'08.5" E	103.25	00°31'20.0"(RT)	00°30'20.8"	103.25	51.63	11328.22
PT	574358.092	1184293.804							
LINE			N 86°03'48.5" E	492.11					
POT	574391.876	1184784.757							

RPC POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	574327.800	1183368.719							
CURVE			S 72°04'00.4" E	399.11	07°08'51.0"(RT)	01°47'22.9"	399.37	199.95	3201.45
PCC	574204.910	1183748.442							
CURVE			S 64°13'57.5" E	119.87	08°31'14.8"(RT)	07°06'06.7"	119.98	60.10	806.77
PCC	574152.801	1183856.391							
CURVE			S 59°02'31.5" E	116.30	01°51'37.3"(RT)	01°35'58.3"	116.31	58.16	3582.07
PCC	574092.974	1183956.126							
CURVE			S 57°43'54.6" E	123.93	00°45'36.6"(RT)	00°36'48.1"	123.93	61.97	9341.26
PCC	574026.809	1184060.918							
CURVE			S 57°38'00.5" E	216.58	00°33'48.5"(LT)	00°15'36.6"	216.58	108.29	22022.71
PT	573910.868	1184243.848							
LINE			S 57°54'54.7" E	149.28					
POT	573831.575	1184370.327							

RPD POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	573754.980	1184314.879							
LINE			N 85°28'25.2" E	582.24					
PC	573800.930	1184895.306							
CURVE			N 86°15'51.4" E	152.76	01°34'52.5"(RT)	01°02'06.2"	152.77	76.39	5535.54
PCC	573810.883	1185047.746							
CURVE			S 89°34'16.3" E	185.69	06°44'52.1"(RT)	03°37'54.4"	185.80	93.01	1577.62
PCC	573809.493	1185233.432							
CURVE			S 84°49'34.2" E	116.99	02°44'32.3"(RT)	02°20'37.4"	117.01	58.51	2444.65
PCC	573798.943	1185349.950							
CURVE			S 82°31'46.9" E	52.78	01°51'02.2"(RT)	03°30'22.2"	52.78	26.39	1634.14
PCC	573792.081	1185402.281							
CURVE			S 79°00'06.9" E	282.08	05°12'18.0"(RT)	01°50'40.6"	282.17	141.18	3106.12
PT	573738.267	1185679.176							

BENCHMARKS

.....
BM1 ELEVATION = 990.77
N 574460 E 1184681
BL STATION 28+90.00 147 LEFT
RR SPIKE IN BASE OF 18' POST OAK
.....
.....
BM2 ELEVATION = 937.76
N 574561 E 1182327
BY STATION 5+00.00
S 85+06'11.4" W DIST 210.47
BOLT IN BASE OF BLUE INFORMATION SIGN
.....
.....
BM3 ELEVATION = 955.07
N 573794 E 1185998
BY STATION 40+56.00 75 LEFT
RR SPIKE IN BASE OF 14 SWEET GUM
.....

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: August 2022
Datum/Epoch: NAD83/2011
Published/Fixed-control use: N/A
Localized around: BR-0099-2
Northing: 573084.676
Easting: 1183804.609
Combined grid factor: 0.999832829
Geoid model: GEOID 12BNC
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 August 2022, 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 21NCAC 56.1600 as applicable.

This 11/10/2022

DocuSigned by:
Matthew Cornwell
EB036F11473E475
Professional Land Surveyor L-4775

BASELINE

BL	POINT	DESC.	NORTH	EAST	ELEVATION
	GPS1	BR-0099-1	572446.0660	1183372.3900	935.56
	GPS2	BR-0099-2	573084.6760	1183804.6090	941.49
	3	BL-3	573445.9500	1184070.1650	956.99
	4	BL-4	573875.4940	1184376.3200	975.40
	5	BL-5	574268.6330	1184712.0060	984.57
	6	BL-6	574748.2270	1185116.4670	982.46
	7	BL-7	575151.5670	1185576.0160	968.01

BY	POINT	DESC.	NORTH	EAST	ELEVATION
	8	BY-8	574578.6290	1182536.2990	936.77
	9	BY-9	574442.6450	1183117.9900	943.60
	10	BY-10	574291.1870	1183707.8070	950.53
	11	BY-11	574083.3650	1184267.9500	958.10
	12	BY-12	573997.2420	1184857.1750	963.04
	13	BY-13	573850.2250	1185432.4760	963.20
	14	BY-14	573711.1610	1186018.4010	957.33

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.