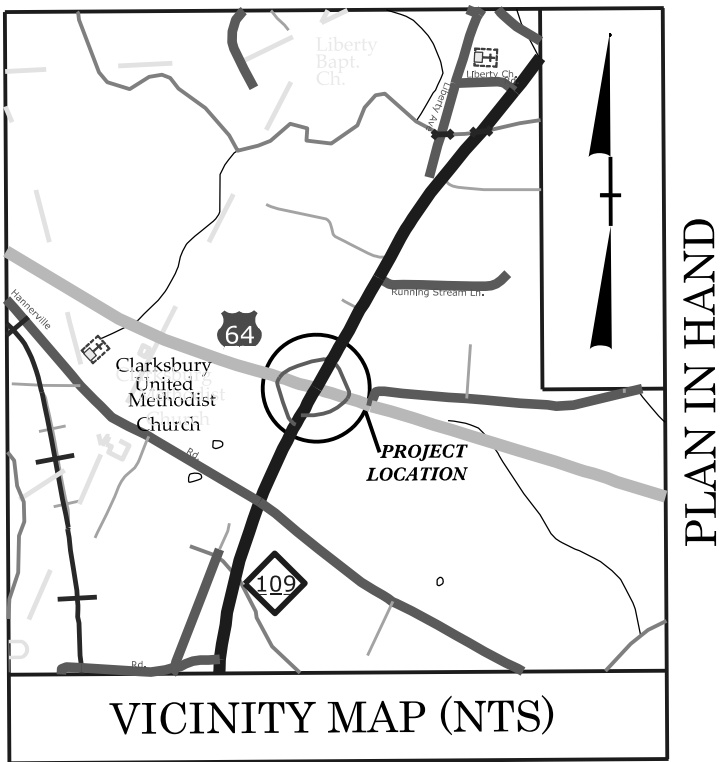
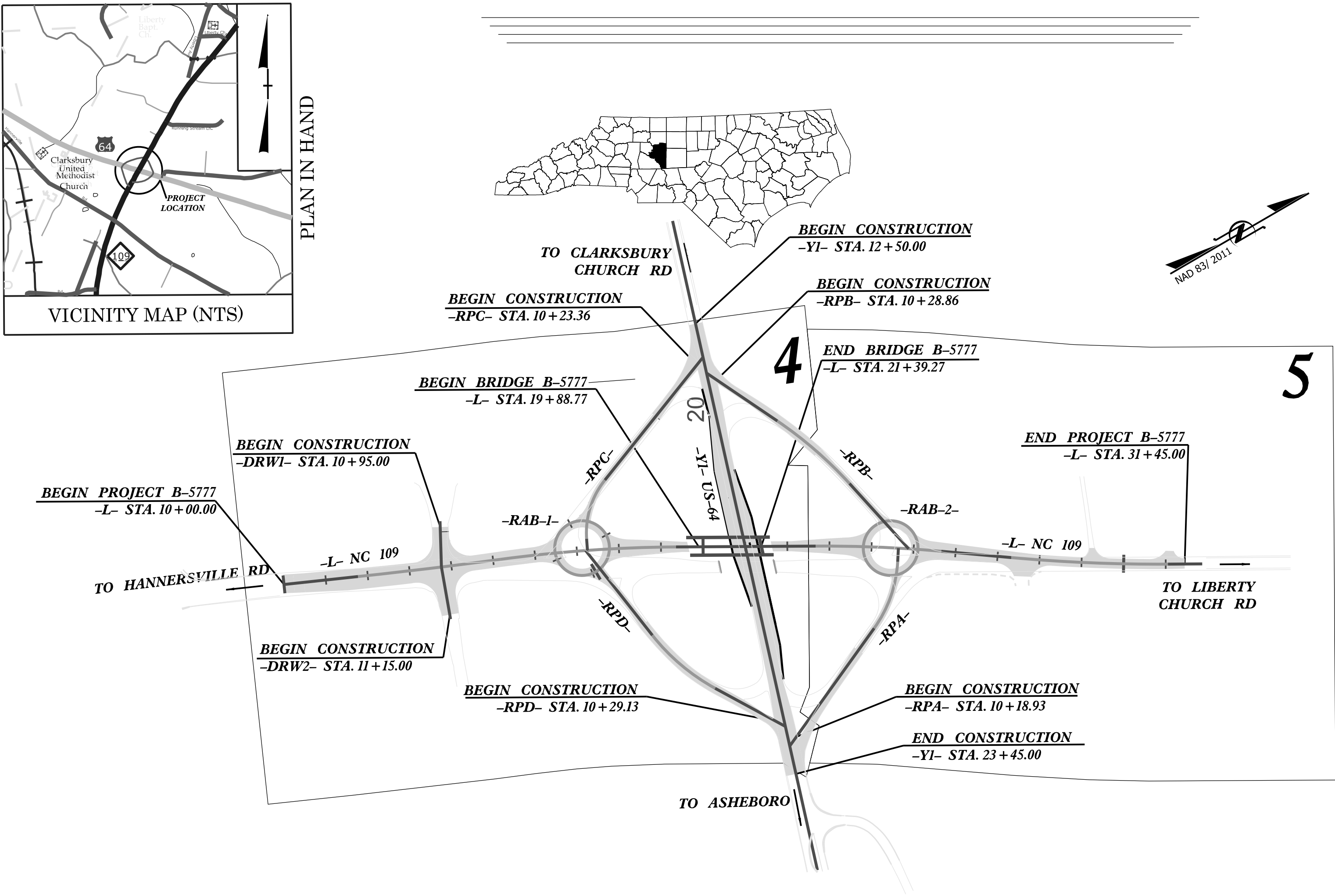


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5777	RW01	5

SURVEY CONTROL, EXISTING CENTERLINES,
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

DAVIDSON COUNTY



PLAN IN HAND

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT
IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY
NCDOT FOR MONUMENT B5777-2
WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF
NORTHING: 737,614.0999' EASTING: 1,673,213.8481'
ELEVATION: 785.96'
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT
(GROUND TO GRID) IS: 0.9998809585
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

LOCATION AND SURVEYS
DIVISION 9
403 POLO ROAD
WINSTON-SALEM, NC
27105

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
APRIL 30, 2024

LETTING DATE:
JUNE 17, 2025

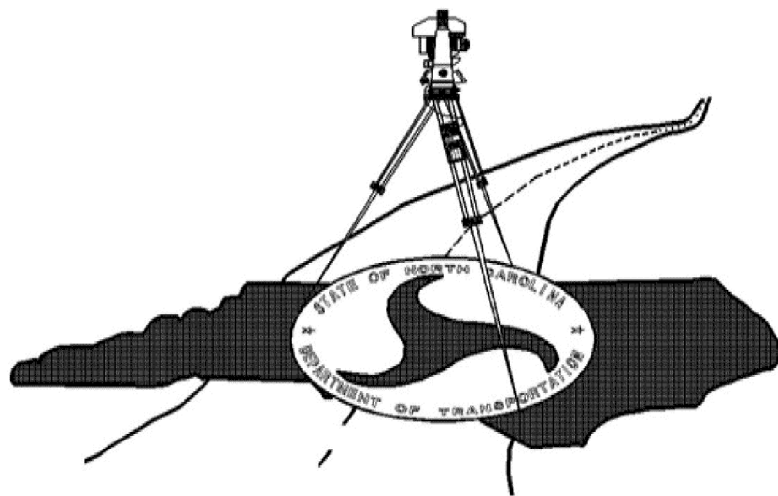
PROFESSIONAL LAND
SURVEYOR



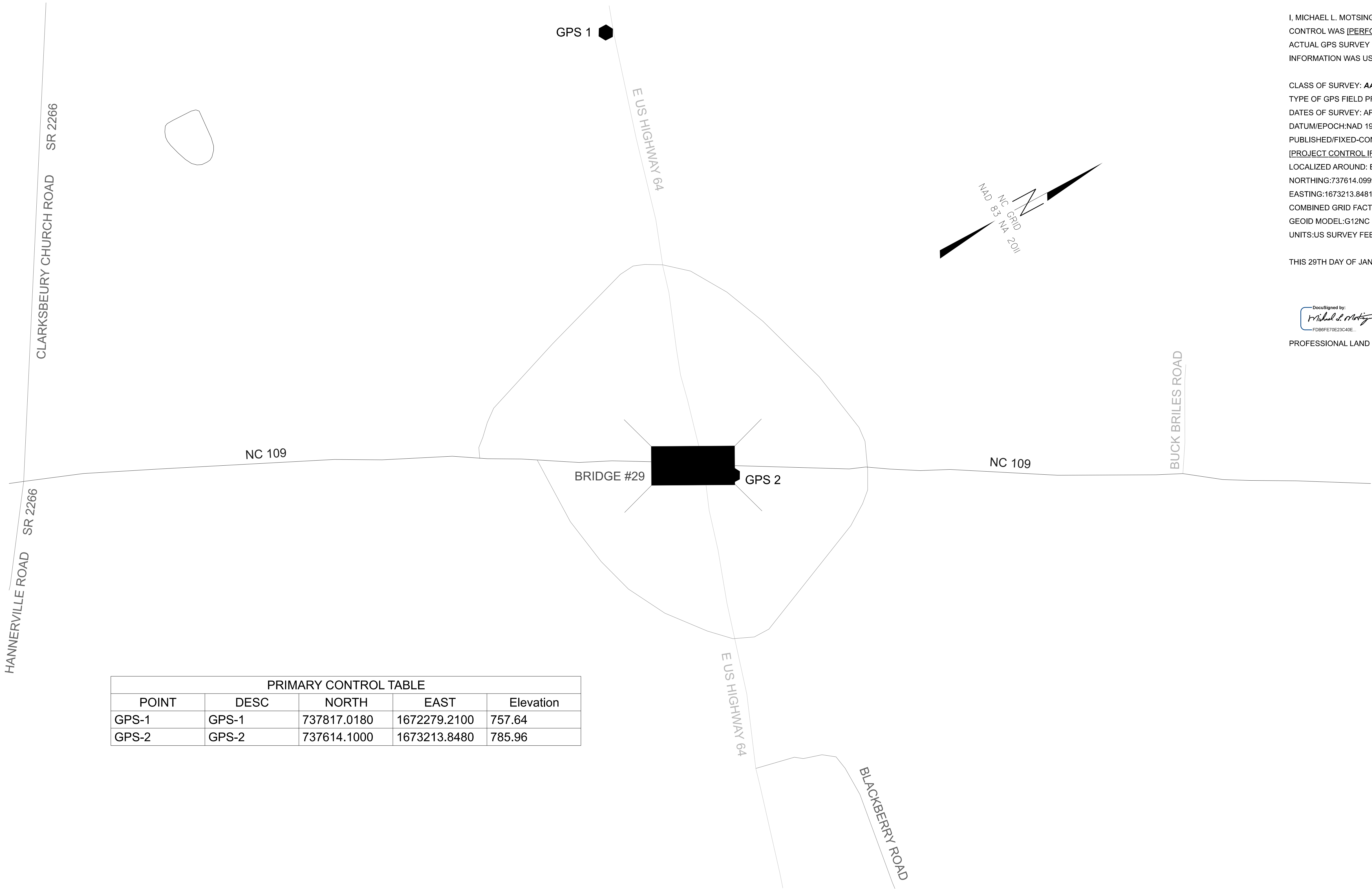
DocuSigned by:
Michael L. Mott
FORRECTOR23C40E
SIGNATURE:

02/04/2025

DATE:



PRIMARY SURVEY CONTROL SHEET



PRIMARY CONTROL TABLE				
POINT	DESC	NORTH	EAST	Elevation
GPS-1	GPS-1	737817.0180	1672279.2100	757.64
GPS-2	GPS-2	737614.1000	1673213.8480	785.96



I, MICHAEL L. MOTSINGER, PLS, CERTIFY THAT THE PRIMARY PROJECT CONTROL WAS [PERFORMED/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: [STATIC, OPUS, RTN]
DATES OF SURVEY: APRIL 2017 - FEBRUARY 2024
DATUM/EPOCH: NAD 1983 / NA 2011
PUBLISHED/FIXED-CONTROL USE:
[PROJECT CONTROL IF APPLICABLE, N/A FOR RTN]
LOCALIZED AROUND: B5777-2
NORTHING: 737614.0999
EASTING: 1673213.8481
COMBINED GRID FACTOR: 0.9998809585
GEOID MODEL: G12NC
UNITS: US SURVEY FEET

THIS 29TH DAY OF JANUARY, 2025.

DocuSigned by:
Michael L. Motsinger
FDBBF70E23C40E

PROFESSIONAL LAND SURVEYOR L-3877

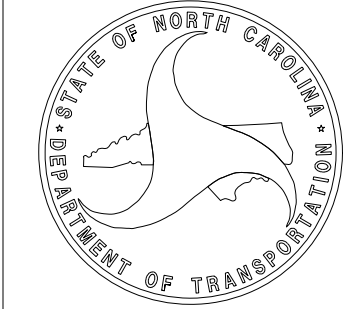
NOTES:

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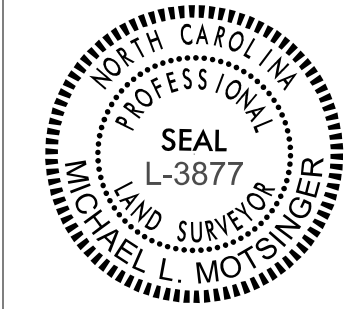
B-5777

R/W 02C-1

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION



PROFESSIONAL LAND
SURVEYOR

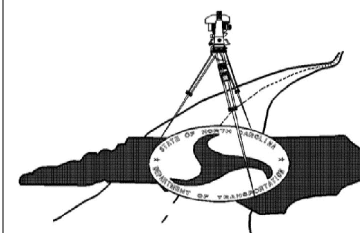


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2024 STANDARD
SPECIFICATIONS

TIP PROJECT: B-5777
County: DAVIDSON

PREPARED FOR



LOCATION AND
SURVEYS UNIT

PREPARED BY
LOCATION AND SURVEYS
DIVISION 9
WINSTON-SALEM, NC
27105

SEE SHEET RW02C-3
FOR FURTHER ALIGNMENT
AND CONTROL DETAILS

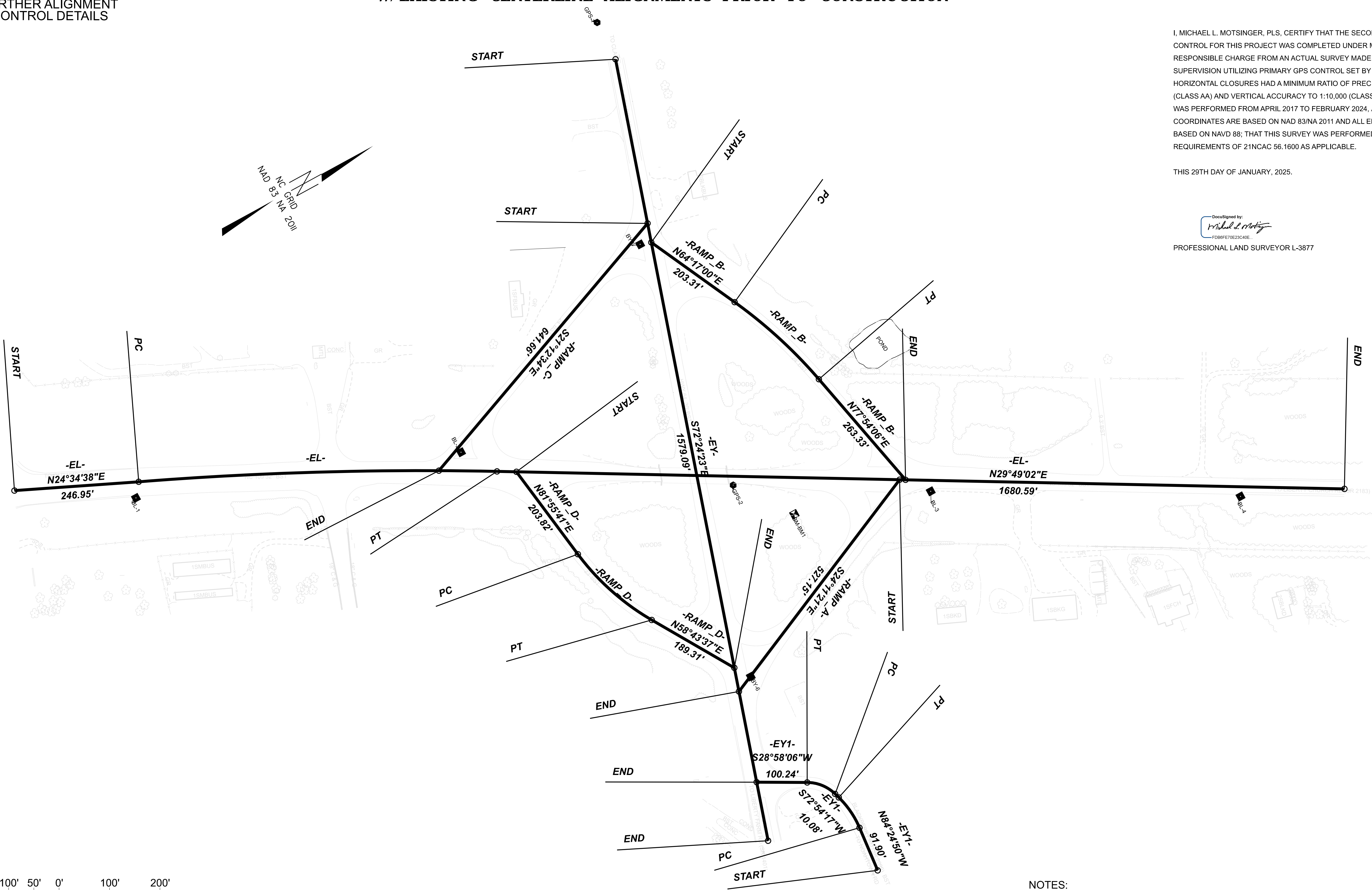
SECONDARY SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

I, MICHAEL L. MOTSINGER, PLS, CERTIFY THAT THE SECONDARY BASELINE CONTROL FOR THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION UTILIZING PRIMARY GPS CONTROL SET BY OTHERS; THAT ALL HORIZONTAL CLOSURES HAD A MINIMUM RATIO OF PRECISION OF 1:20,000 (CLASS AA) AND VERTICAL ACCURACY TO 1:10,000 (CLASS A). FIELD WORK WAS PERFORMED FROM APRIL 2017 TO FEBRUARY 2024, AND ALL COORDINATES ARE BASED ON NAD 83/NA 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 29TH DAY OF JANUARY, 2025.

DocuSigned by:
Michael L. Motsinger
F0B8F5E7E23C4E
PROFESSIONAL LAND SURVEYOR L-3877



NOTES:

1. 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.

B-5777

R/W02C-2

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION

PROFESSIONAL LAND
SURVEYOR

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2024 STANDARD
SPECIFICATIONS

TIP PROJECT: B-5777
County: DAVIDSON

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SURVEYS UNIT

PREPARED BY
LOCATION AND SURVEYS
DIVISION 9
403 POLO ROAD
WINSTON-SALEM, NC
27105

SECONDARY SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BASELINE POINTS TABLE				
POINT	DESC	NORTH	EAST	ELEVATION
1	BL-1	736562.6351	1672668.5568	776.56
2	BL-2	737171.7309	1672897.9230	786.39
3	BL-3	737951.9843	1673412.2281	778.77
4	BL-4	738486.2215	1673715.4880	755.77
5	BY-5	737681.0405	1672706.2140	762.95
6	BY-6	737462.7802	1673563.5583	772.47

BENCHMARK POINT TABLE				
BENCHMARK	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM1	737692.8670	1673322.6596	779.64	RR SPIKE IN 10" OAK

EXISTING ALIGNMENT NAME:EL									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	736358.117	1672540.402							
LINE			N24°34'38.426"E	246.952					
PC	736582.695	1672643.114							
CURVE					05°41'16.873" Right	00°48'00.001"	711.002	355.793	7161.970
PT	737216.094	1672965.472							
LINE			N29°49'01.592"E	1680.587					
END	738674.200	1673801.116							

EXISTING ALIGNMENT NAME:EY									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	737814.115	1672360.768							
LINE			S72°24'22.598"E	1579.092					
END	737336.810	1673865.996							

EXISTING ALIGNMENT NAME:EY1									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	737499.325	1674021.655							
LINE			N84°24'49.929"W	91.898					
PC	737508.271	1673930.193							
CURVE					22°40'52.734" Left	30°58'14.490"	73.235	37.103	185.000
PT	737500.976	1673857.802							
LINE			S72°54'17.336"W	10.081					
PC	737498.012	1673848.167							
CURVE					43°56'10.965" Left	71°37'11.008"	61.347	32.270	80.000
PT	737460.293	1673801.692							
LINE			S28°58'06.372"W	100.239					
END	737372.595	1673753.144							

EXISTING ALIGNMENT NAME:RAMP_A									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	737908.843	1673362.489							
LINE			S24°11'20.523"E	527.150					
END	737427.978	1673578.487							

I, MICHAEL L. MOTSINGER, PLS, CERTIFY THAT THE SECONDARY BASELINE CONTROL FOR THIS PROJECT WAS COMPLETED UNDER MY DIRECT AND RESPONSIBLE CHARGE FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION UTILIZING PRIMARY GPS CONTROL SET BY OTHERS; THAT ALL HORIZONTAL CLOSURES HAD A MINIMUM RATIO OF PRECISION OF 1:20,000 (CLASS AA) AND VERTICAL ACCURACY TO 1:10,000 (CLASS A). FIELD WORK WAS PERFORMED FROM APRIL 2017 TO FEBRUARY 2024, AND ALL COORDINATES ARE BASED ON NAD 83/NA 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 30TH DAY OF JANUARY, 2025.

DocuSigned by:
Michael L. Motsinger
FD68FE70E23C40E...

PROFESSIONAL LAND SURVEYOR L-3877

EXISTING ALIGNMENT NAME:RAMP_B									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	737702.270	1672713.481							
LINE			N64°17'00.000"E	203.309					
PC	737790.490	1672896.652							
CURVE					13°37'05.528" Right	06°00'01.350"	226.956	114.015	954.870
PT	737863.860	1673110.857							
LINE			N77°54'05.528"E	263.331					
END	737919.053	1673368.339							

EXISTING ALIGNMENT NAME:RAMP_C									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	737713.883	1672676.858							
LINE			S21°12'34.240"E	641.659					
END	737115.687	1672908.997							

EXISTING ALIGNMENT NAME:RAMP_D									
POINT	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R
START	737249.522	1672984.630							
LINE			N81°55'40.738"E	203.820					
PC	737278.142	1673186.431							
CURVE					23°12'04.156" Left	11°45'01.185"	197.451	100.097	487.610
PT	737344.160	1673371.090							
LINE			N58°43'36.582"E	189.312					
END	737442.435	1673532.895							

NOTES:

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B-5777

R/W02C-3

NORTH CAROLINA
DEPARTMENT
OF TRANSPORTATION



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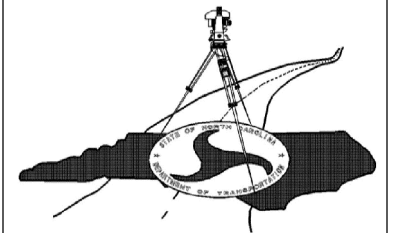
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2024 STANDARD
SPECIFICATIONS

TIP PROJECT: B-5777

County: DAVIDSON

PREPARED FOR



LOCATION AND
SURVEYS UNIT

PREPARED BY
LOCATION AND SURVEYS
DIVISION 9
403 POLO ROAD
WINSTON-SALEM, NC
27105

PROPOSED ALIGNMENT CONTROL SHEET

I, MICHAEL L. MOTSINGER, 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 30TH DAY OF JANUARY, 2025.

DocuSigned by:
Michael L. Motsinger
F0B9FE70E23C40E
PROFESSIONAL LAND SURVEYOR L-3877

PROPOSED ALIGNMENT: L												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	736582.6949	1672643.1140	N24°07'44.7"E	176.8850							
PC	11+76.89	736744.1249	1672715.4235	N23°16'45.6"E	341.1013	01°41'58.2"	00°29'53.6"	341.1138	170.5694	11500.0000		
PRC	15+18.00	737057.4568	1672850.2316	N26°07'24.0"E	417.4657	07°23'15.1"	01°46'06.2"	417.7551	209.1674	3240.0000		
PT	19+35.75	737432.2777	1673034.0438	N29°49'01.6"E	331.7969							
PC	22+67.55	737720.1504	1673199.0242	N32°33'29.6"E	298.4177	05°28'56.1"	01°50'11.1"	298.5315	149.3798	3120.0000		
PT	25+66.08	737971.6702	1673359.6196	N35°17'57.7"E	166.7960							
PC	27+32.88	738107.7998	1673456.0025	N32°33'29.6"E	372.0656	05°28'56.1"	01°28'22.4"	372.2076	186.2459	3890.0000		
PT	31+05.09	738421.3935	1673656.2320	N29°49'01.6"E	81.5731							
END	31+86.66	738492.1677	1673696.7928									

PROPOSED ALIGNMENT: Y1												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	737814.1147	1672360.7677	S72°24'22.6"E	1579.0923							
END	25+79.09	737336.8096	1673865.9961									

PROPOSED ALIGNMENT: DRW1												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	736926.8323	1672795.3690	N61°36'51.6"W	108.9730							
END	11+08.97	736978.6385	1672699.4981									

PROPOSED ALIGNMENT: DRW2												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	736926.8323	1672795.3690	S69°44'54.4"E	125.5118							
END	11+25.51	736883.3873	1672913.1219									

PROPOSED ALIGNMENT: RPA												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	737427.9781	1673578.4874	N24°11'20.5"W	344.1637							
PC	13+44.16	737741.9237	1673437.4669	N40°23'00.6"W	167.3391	32°23'20.2"	19°05'54.9"	169.5881	87.1267	300.0000		
PT	15+13.75	737869.3901	1673329.0478	N56°34'40.7"W	32.4943							
END	15+46.25	737887.2880	1673301.9268									

PROPOSED ALIGNMENT: RPB												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	737702.2701	1672713.4808	N64°17'00.0"E	203.2935							
PC	12+03.29	737790.4834	1672896.6382	N71°05'32.8"E	226.4528	13°37'05.5"	05°59'58.4"	226.9868	114.0307	955.0000		
PT	14+30.28	737863.8637	1673110.8722	N77°54'05.5"E	209.3125							
END	16+39.59	737907.7340	1673315.5356									

PROPOSED ALIGNMENT: RPC												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	737713.8831	1672676.8579	S21°12'34.2"E	373.4010							
PC	13+73.40	737365.7749	1672811.9467	S42°33'29.0"E	145.6161	42°41'49.4"	28°38'52.4"	149.0409	78.1720	200.0000		
PT	15+22.44	737258.5151	1672910.4322	S63°54'23.7"E	27.7457							
END	15+50.19	737246.3116	1672935.3500									

PROPOSED ALIGNMENT: RPD												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
START	10+00.00	737442.4354	1673532.8948	S58°43'36.6"W	189.8475							
PC	11+89.85	737343.8820	1673370.6318	S70°19'38.7"W	195.0552	23°12'04.2"	11°48'48.8"	196.3942	99.5613	485.0000		
PT	13+86.24	737278.2177	1673186.9617	S81°55'40.7"W	256.1340							
END	16+42.38	737242.2519	1672933.3653									

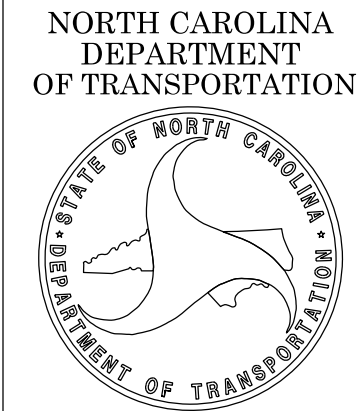
PROPOSED ALIGNMENT: RAB-1												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
PC	10+00.00	737238.0419	1672989.288	N00°00'00.0"W	0	00°00'00.0""	88°08'50.5""	408.407	0	65		
END	14+08.41	737238.0419	1672989.288									

PROPOSED ALIGNMENT: RAB-2												
POINT	STATION	NORTHING	EASTING	BEARING	DIST	DELTA	D	L	T	R	LT	ST
PC	10+00.00	737871.3533	1673357.596	N00°00'00.0"W	0	00°00'00.0""	88°08'50.5""	408.407	0	65		
END	14+08.41	737871.3533	1673357.596									

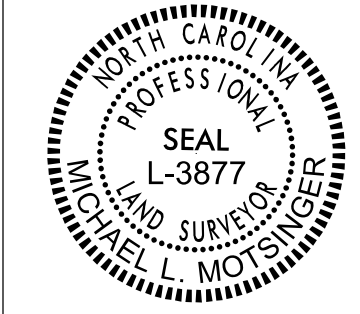
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B-5777
R/W 020-I



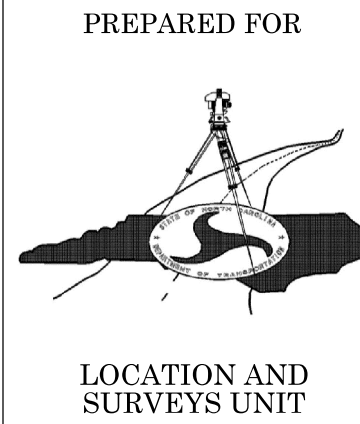
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