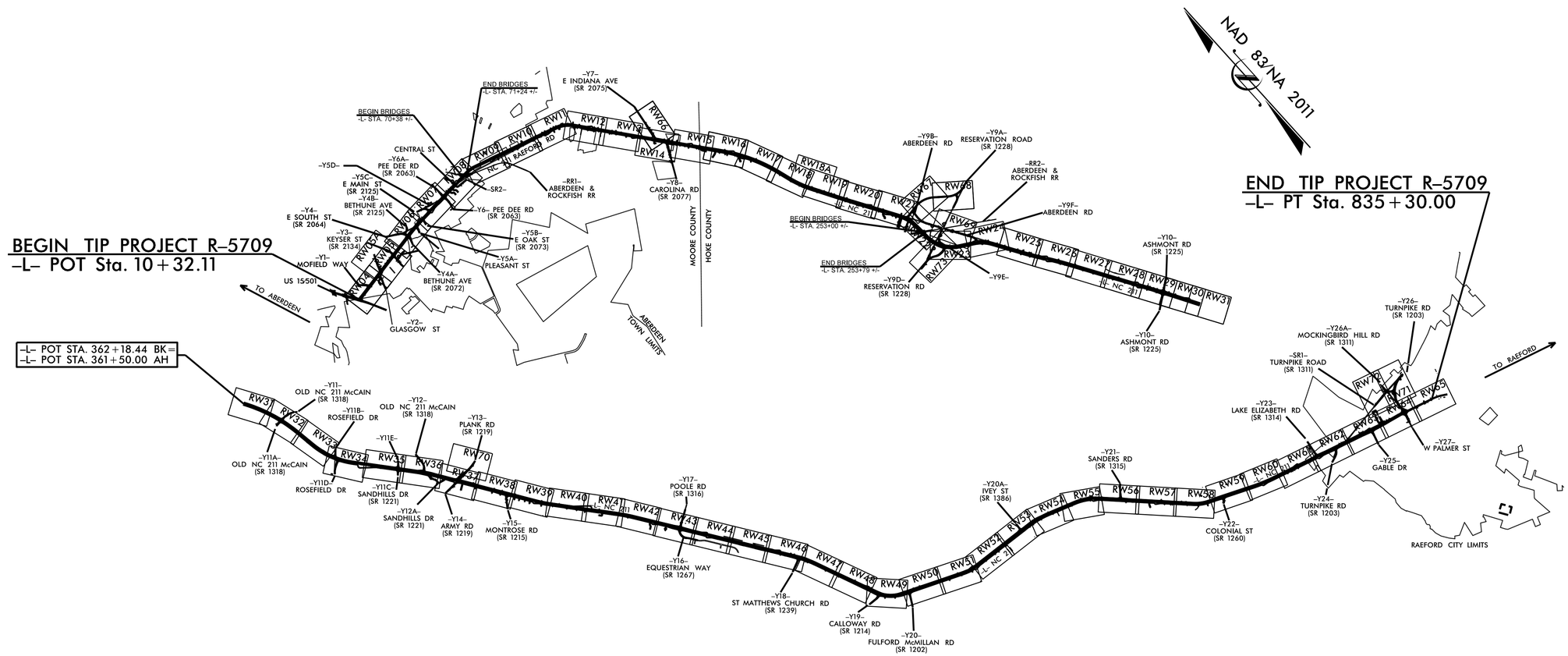
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5709	RW01	73

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

MOORE/HOKE COUNTIES

TIP PROJECT: R-5709



GRAPHIC SCALE

50 25 0 50 100

PLANS

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT
IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY
NCDOT FOR MONUMENT "PANEL 99"
WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF
NORTHING: 475,723.947(ft) EASTING: 1,895,788.743(ft)
ELEVATION: R5709-6 502.595(ft) R5709-9 462.179(ft) R5709-17 503.891(ft) R5709-18 494.050(ft)
R5709-28 377.695(ft) R5709-32 308.638(ft) R5709-33 299.183(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT
(GROUND TO GRID) IS: 0.999864698
THE N.C. LAMBERT GRID BEARING AND
LOCALIZED HORIZONTAL GROUND DISTANCE FROM
"PANEL99" TO -L- STATION 10+00.00 IS
N 44-16'53.7" W 34824.78(ft)
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88-GEOID 12B

Prepared in the Office of:

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # P-1333
formerly CALYX Engineers & Consultants

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:	*LETTING DATE:*
04/23/2021	*03/19/2024*

PROFESSIONAL LAND SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-3281 LAND SURVEYOR C. ANDREW HEATH, JR.

DocuSigned by: C. Andrew Heath Jr. 2CC014B39297479... 8/17/2021

SIGNATURE: *Date:*

STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION

$$$$SYSTIME$$$$DGN$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02C-1

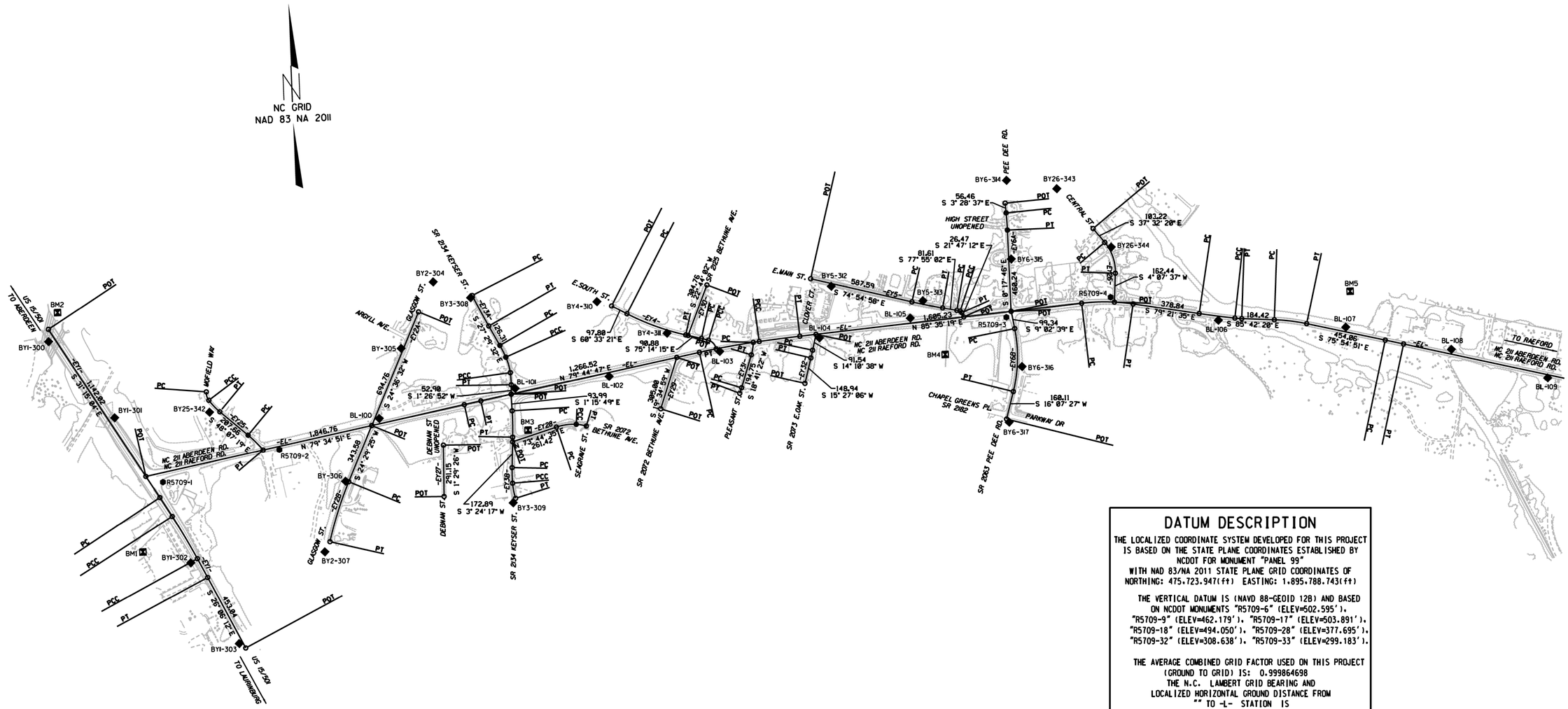
Location and Surveys

CALYX ENGINEERS + CONSULTANTS
6750 TRYON ROAD
CARY, NC 27518
phone: 919.851.1912
CALYXengineers.com
NC License # F-1333

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

DRAWING NOT TO SCALE



SEE SHEET RW02C-7 THRU RW02C-13 FOR FURTHER ALIGNMENT DETAILS

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "PANEL 99"
WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF NORTHING: 475,723.947(ft) EASTING: 1,895,788.743(ft)

THE VERTICAL DATUM IS (NAVD 88-GEOID 12B) AND BASED ON NCDOT MONUMENTS "R5709-6" (ELEV=502.595'), "R5709-9" (ELEV=462.179'), "R5709-17" (ELEV=503.891'), "R5709-18" (ELEV=494.050'), "R5709-28" (ELEV=377.695'), "R5709-32" (ELEV=308.638'), "R5709-33" (ELEV=299.183').

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999864698
THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "" TO -L- STATION IS

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES

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

6/2/99

14-JAN-2019 09:44
G:\Projects\2016_2019\R-5709_Ia_rw02c-1.dgn
admin: ALESSANDRA.FAZIO

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02C-2

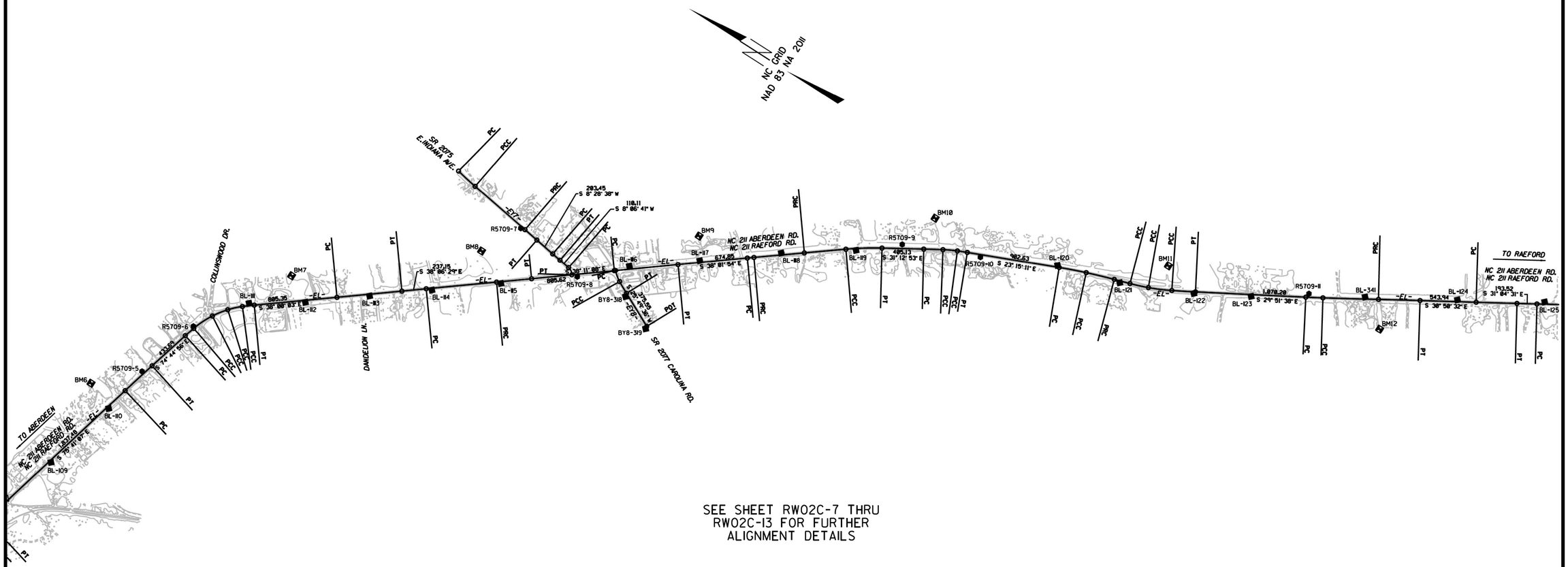
Location and Surveys

CALYX
ENGINEERS + CONSULTANTS
6750 TRYON ROAD
CARY, NC 27518
phone: 919.851.1912
CALYXengineers.com
NC License # F-1333

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

DRAWING NOT TO SCALE



SEE SHEET RW02C-7 THRU
RW02C-13 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.

6/2/99

REVISIONS

14-JAN-2019 09:44
G:\Project 2016\2019014.13\SUR\CONTROL SHEETS\r-5709_ls-rw02c-2.dgn
admin: DLFESMITH-7.13.7

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02C-3

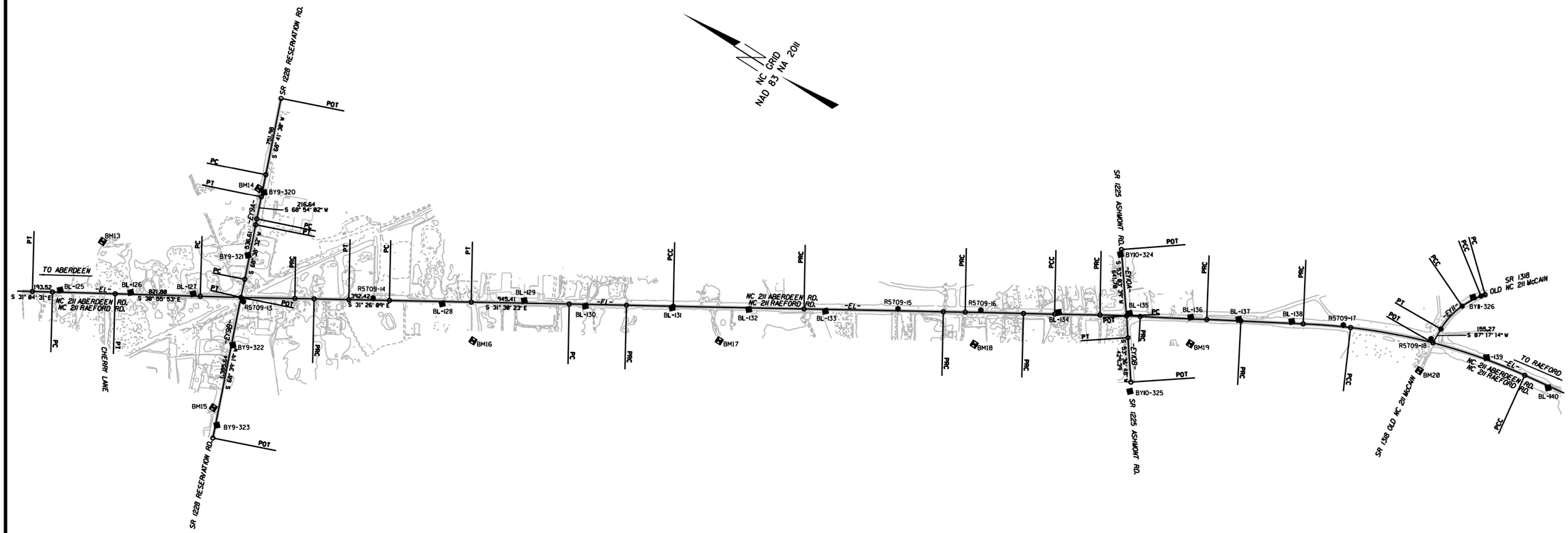
Location and Surveys

CALYX ENGINEERS + CONSULTANTS
6750 TRYON ROAD
CARY, NC 27518
phone: 919.851.1912
CALYXengineers.com
NC License # F-1333

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

DRAWING NOT TO SCALE



SEE SHEET RW02C-7 THRU
RW02C-13 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

6/2/99

14-JAN-2019 09:44
G:\Project_DATA\R5709\2019014.13\SUR\CONTROL SHEETS\r-5709_ls-rw02c-3.dgn
admin_ALFESMITH-7137

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02C-4

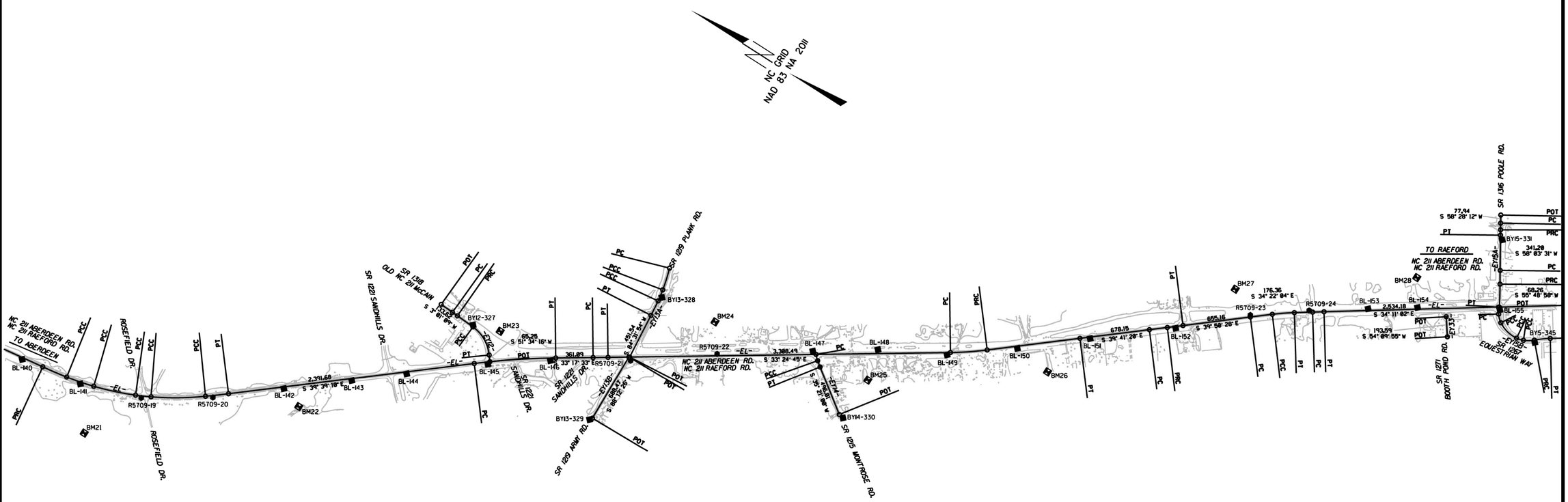
Location and Surveys

CALYX
ENGINEERS + CONSULTANTS
6750 TRYON ROAD
CARY, NC 27518
phone: 919.851.1912
CALYXengineers.com
NC License # F-1333

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

DRAWING NOT TO SCALE



SEE SHEET RW02C-7 THRU
RW02C-13 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.

6/2/99

REVISIONS

14-JAN-2019 09:44
GNP-project: R-5709
User: ALFESSMITH-13X7
$cmpnt: SHEETS\r-5709_ls-rw02c-4.dgn
$cmpnt: SUR\CONTROL

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02C-5

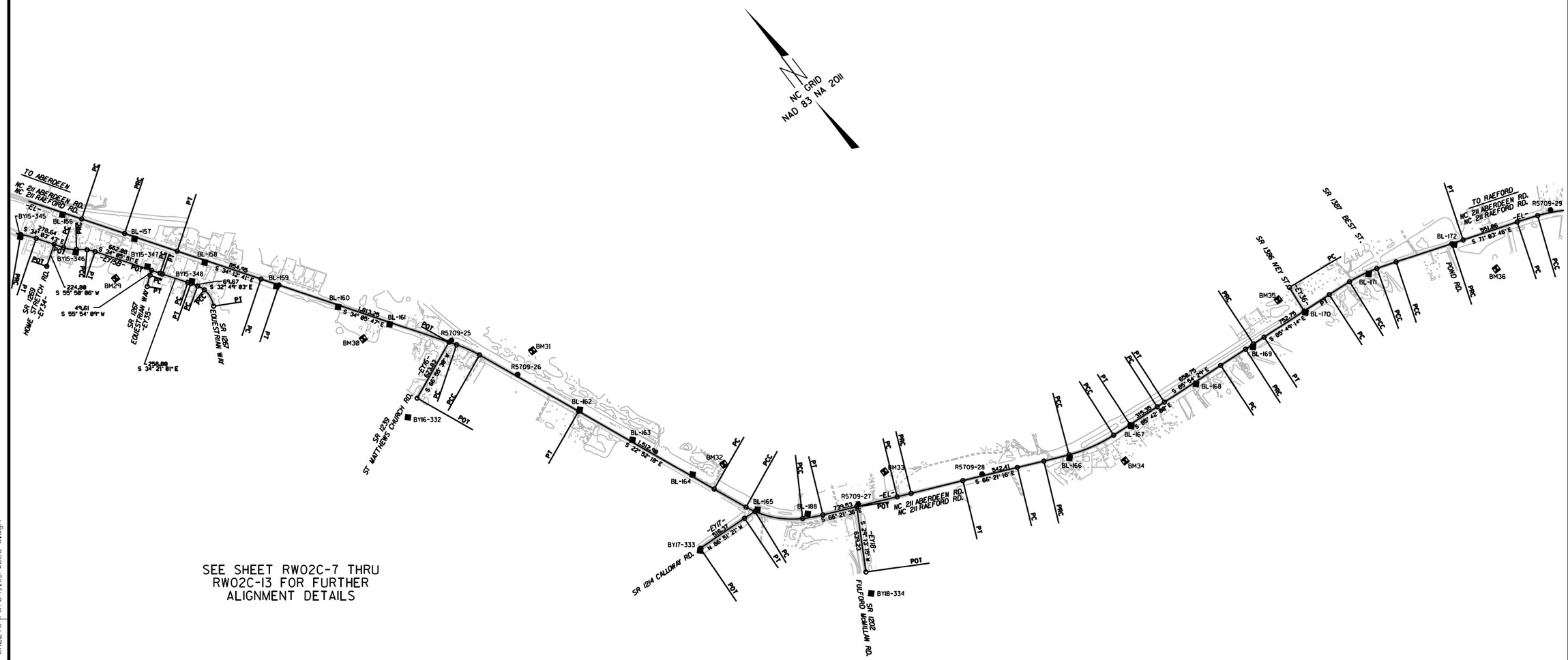
Location and Surveys

CALYX
ENGINEERS + CONSULTANTS
6750 TRYON ROAD
CARY, NC 27518
phone: 919.851.1912
CALYXengineers.com
NC License # F-1333

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

DRAWING NOT TO SCALE



SEE SHEET RW02C-7 THRU
RW02C-13 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.

6/2/99

REVISIONS

14-JAN-2019 09:44
G:\Projects\2018\2018014.13\SUR\CONTROL SHEETS\r5709_ls_rw02c-5.dgn
asmith, ALESSMITH, 7.13.17

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02C-6

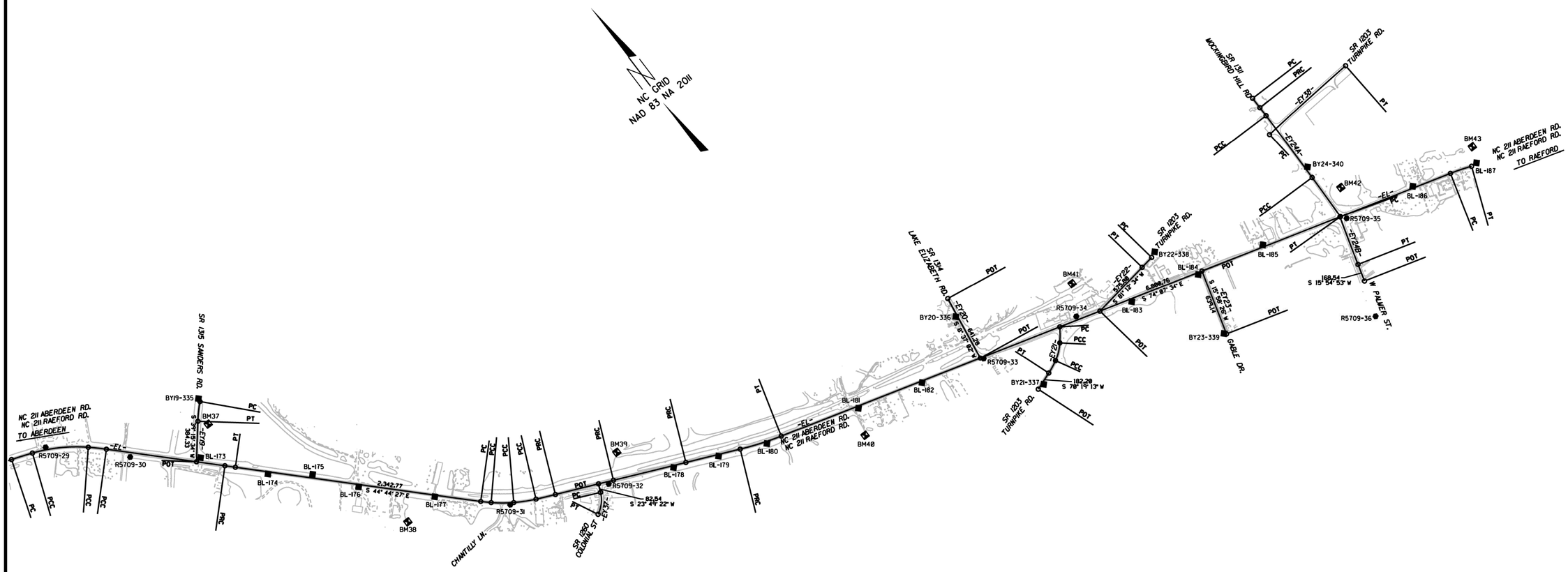
Location and Surveys

CALYX
ENGINEERS + CONSULTANTS
6750 TRYON ROAD
CARY, NC 27518
phone: 919.851.1912
CALYXengineers.com
NC License # F-1333

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

DRAWING NOT TO SCALE



SEE SHEET RW02C-7 THRU
RW02C-13 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.

6/2/99

REVISIONS

14-JAN-2019 08:44
G:\Projects\2019014.13\SUR\CONTROL SHEETS\r-5709_1s_rw02c-6.dgn
asmith AT ESSMITH-7-13-17

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02C-7

Location and Surveys

CALYX
ENGINEERS + CONSULTANTS
6750 TRYON ROAD
CARY, NC 27518
phone: 919.851.1912
CALYXengineers.com
NC License # F-1333

REVISIONS

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BL

POINT	DESC.	NORTH	EAST	ELEVATION
1	R5709-1	500649.6492	1871551.6440	353.84
2	R5709-2	500806.6945	1872217.2290	346.32
100	BL-100	500960.6298	1872788.7485	345.68
101	BL-101	501099.3821	1873563.6390	348.90
102	BL-102	501146.9532	1874097.6171	352.86
103	BL-103	501262.9204	1874728.2874	377.92
104	BL-104	501316.6225	1875295.3025	407.44
105	BL-105	501408.0577	1875813.2785	434.98
3	R5709-3	501391.1466	1876356.7476	453.14
4	R5709-4	501481.2878	1876950.7918	458.34
106	BL-106	501326.0465	1877555.1460	453.01
107	BL-107	501258.3464	1878273.6434	467.71
108	BL-108	501109.1481	1878865.5426	482.12
109	BL-109	500926.4117	1879403.1007	495.30
110	BL-110	500736.5413	1880143.8632	507.88
5	R5709-5	500658.2962	1880622.0351	515.41
6	R5709-6	500475.4208	1881259.3884	502.60
111	BL-111	500139.9021	1881737.1264	489.57
112	BL-112	499686.7332	1882039.5060	471.14
113	BL-113	499194.1773	1882426.2377	460.06
114	BL-114	498716.3023	1882799.6455	455.90
115	BL-115	498186.8842	1883214.5913	472.93
8	R5709-8	497598.5861	1883668.5332	467.32
116	BL-116	497228.8043	1884027.2499	469.17
117	BL-117	496681.5422	1884440.2998	454.46
118	BL-118	496056.8100	1884928.6147	423.22
119	BL-119	495460.7640	1885340.9550	451.13
9	R5709-9	495114.1790	1885630.7720	462.18
10	R5709-10	494409.5470	1885935.4830	457.17
120	BL-120	493735.3684	1886270.7464	442.59
121	BL-121	493137.6902	1886453.4418	416.43
122	BL-122	492475.1018	1886754.3104	382.21
123	BL-123	491992.2349	1887029.3939	403.82
11	R5709-11	491534.5060	1887353.8626	419.28
341	BL-341	491058.1440	1887619.5260	417.88
124	BL-124	490289.5305	1888078.9220	394.31
125	BL-125	489566.6210	1888517.0809	405.41
126	BL-126	488981.0329	1888864.1256	411.69
127	BL-127	488465.9618	1889177.9782	430.16
13	R5709-13	488016.9579	1889376.9216	435.80
14	R5709-14	486980.3219	1890078.3420	416.53
128	BL-128	486390.1597	1890391.8646	414.29
129	BL-129	485738.4224	1890845.2606	429.96
130	BL-130	485214.2373	1891118.2061	437.90
131	BL-131	484499.5909	1891554.8590	404.56
132	BL-132	483867.7706	1891941.1557	404.38
133	BL-133	483235.9284	1892325.5165	432.15
15	R5709-15	482657.1822	1892721.9253	446.24
16	R5709-16	481976.6899	1893142.6421	450.67
134	BL-134	481333.2426	1893528.6949	453.27
135	BL-135	480750.3814	1893890.2636	479.28
136	BL-136	480231.9024	1894177.8622	490.14
137	BL-137	479830.6966	1894411.3517	484.65
138	BL-138	479388.4267	1894669.2052	497.27
17	R5709-17	478951.2868	1894907.7327	503.89
18	R5709-18	478166.2043	1895249.8443	494.05
139	BL-139	477616.4732	1895387.5366	484.79
140	BL-140	476959.7689	1895461.7658	474.46
141	BL-141	476358.5867	1895564.0930	479.50
19	R5709-19	475790.1135	1895767.8314	480.12
20	R5709-20	475209.2354	1896144.5051	457.28
142	BL-142	474678.1183	1896585.4870	436.23
143	BL-143	474167.1513	1897004.9659	448.38
144	BL-144	473756.3725	1897346.1915	464.62
145	BL-145	473145.7862	1897848.6315	486.84
146	BL-146	472654.4773	1898202.0952	488.45
21	R5709-21	472001.5510	1898619.7711	471.47
22	R5709-22	471333.3596	1899124.5351	452.44
147	BL-147	470568.1781	1899645.3531	454.99
148	BL-148	470046.3990	1899996.6098	447.86
149	BL-149	469457.1699	1900314.6505	444.41
150	BL-150	468918.7108	1900732.4033	445.90
151	BL-151	468377.4377	1901190.5952	428.02
152	BL-152	467733.7814	1901721.8743	420.97
23	R5709-23	467194.9724	1902217.4343	444.52
24	R5709-24	466740.2174	1902561.0729	456.70
153	BL-153	466269.3785	1902881.8356	446.68
154	BL-154	465874.2457	1903149.8641	440.03
155	BL-155	465191.8234	1903557.5169	436.13
156	BL-156	464661.4983	1903928.5507	421.81
157	BL-157	464053.7851	1904342.5615	406.31
158	BL-158	463458.8129	1904743.6063	402.26
159	BL-159	462855.6847	1905156.0991	370.83
160	BL-160	462334.3886	1905509.4068	373.24
161	BL-161	461898.6388	1905803.7394	389.52
25	R5709-25	461410.8768	1906184.1492	392.03
26	R5709-26	460760.3365	1906494.7438	384.76

BL

POINT	DESC.	NORTH	EAST	ELEVATION
162	BL-162	460123.6362	1906765.8363	388.30
163	BL-163	459583.0362	1906994.4428	383.80
164	BL-164	458962.8969	1907253.4493	382.81
165	BL-165	458313.2246	1907547.3719	381.05
188	BL-188	457986.7530	1907909.6326	380.99
27	R5709-27	457766.3705	1908356.6825	380.20
28	R5709-28	457268.8225	1909483.7438	377.69
166	BL-166	456881.0248	1910252.6153	372.29
167	BL-167	456763.5355	1910914.6276	367.33
168	BL-168	456706.1104	1911661.1341	365.41
169	BL-169	456657.4523	1912316.6514	363.70
170	BL-170	456616.0642	1912923.0706	364.27
171	BL-171	456541.3761	1913635.5881	361.30
172	BL-172	456266.6225	1914465.7257	352.11
29	R5709-29	455967.6919	1915409.6796	367.05
30	R5709-30	455410.4068	1915990.0028	355.86
173	BL-173	455001.2230	1916516.0738	344.48
174	BL-174	454492.3560	1916929.5636	329.41
175	BL-175	454234.2315	1917263.5273	339.25
176	BL-176	453876.0528	1917538.4839	346.41
177	BL-177	453364.5907	1918054.3499	333.63
31	R5709-31	452871.4538	1918575.6819	318.45
32	R5709-32	452463.9319	1919436.5766	308.64
178	BL-178	452215.4294	1920018.3228	312.09
179	BL-179	452043.1651	1920422.1126	319.33
180	BL-180	451859.7287	1920857.1295	323.96
181	BL-181	451601.7392	1921748.8493	303.68
182	BL-182	451429.5879	1922374.2295	304.97
33	R5709-33	451257.1190	1922975.7307	299.18
34	R5709-34	451044.0401	1923914.2736	294.39
183	BL-183	450836.8417	1924416.5476	293.73
184	BL-184	450659.0333	1925073.8549	286.76
185	BL-185	450511.9400	1925728.9212	288.63
35	R5709-35	450231.5555	1926512.1498	283.92
186	BL-186	450093.3672	1927192.6541	277.01
187	BL-187	449903.3838	1927804.8924	276.86

BY1

POINT	DESC.	NORTH	EAST	ELEVATION
300	BY1-300	501469.7848	1870936.8408	337.43
301	BY1-301	501024.5939	1871293.0975	356.69
E01	R5709-1	500649.6492	1871551.6440	353.84
302	BY1-302	500186.7762	1871690.5933	355.03
303	BY1-303	499720.1353	1871946.3358	361.31

BY2

POINT	DESC.	NORTH	EAST	ELEVATION
304	BY2-304	501720.3713	1873124.2982	341.14
305	BY2-305	501352.2576	1872928.3848	336.35
E0100	BL-100	500960.6298	1872788.7485	345.68
306	BY2-306	500613.3651	1872583.9931	361.65
307	BY2-307	500218.4393	1872451.1468	368.42

BY3

POINT	DESC.	NORTH	EAST	ELEVATION
308	BY3-308	501623.4261	1873332.4086	341.18
E0101	BL-101	501099.3821	1873563.6390	348.90
309	BY3-309	500453.7198	1873526.8000	388.25

BY4

POINT	DESC.	NORTH	EAST	ELEVATION
310	BY4-310	501572.4090	1874045.6270	359.64
311	BY4-311	501377.7826	1874434.5878	370.32
E0103	BL-103	501262.9204	1874728.2874	377.92

BY5

POINT	DESC.	NORTH	EAST	ELEVATION
312	BY5-312	501605.8121	1875373.8217	426.12
313	BY5-313	501503.8209	1875888.4467	446.64
E03	R5709-3	501391.1466	1876356.7476	453.14

BY6

POINT	DESC.	NORTH	EAST	ELEVATION
314	BY6-314	502164.8472	1876388.2167	425.26
315	BY6-315	501718.4363	1876397.4427	442.44
E0A3	R5709-3	501391.1466	1876356.7476	453.14
316	BY6-316	501109.2281	1876434.2038	436.45
317	BY6-317	500797.4325	1876348.6346	420.40

BY7

POINT	DESC.	NORTH	EAST	ELEVATION
7	R5709-7	498312.7495	1883769.2264	482.29
E08	R5709-8	497598.5861	1883668.5332	467.32

BY8

POINT	DESC.	NORTH	EAST	ELEVATION
E0116	BL-116	497228.8043	1884027.2499	469.17
318	BY8-318	497100.2281	1883759.3554	462.01
319	BY8-319	496768.9714	1883601.6551	452.42

BY9

POINT	DESC.	NORTH	EAST	ELEVATION
320	BY9-320	488415.9210	1890369.2430	446.59
321	BY9-321	488221.5963	1889777.7324	439.58
E013	R5709-13	488016.9579	1889376.9216	435.80
322	BY9-322	487876.7147	1888966.6088	427.51
323	BY9-323	487588.9001	1888231.9113	412.27

BY10

POINT	DESC.	NORTH	EAST	ELEVATION
324	BY10-324	481132.0562	1894324.4815	484.87
E0135	BL-135	480750.3814	1893890.2636	479.28
325	BY10-325	480341.9076	1893257.8904	465.16

BY11

POINT	DESC.	NORTH	EAST	ELEVATION
326	BY11-326	478040.8500	1895807.3085	512.64
E018	R5709-18	478166.2043	1895249.8443	494.05

BY12

POINT	DESC.	NORTH	EAST	ELEVATION
327	BY12-327	473469.9409	1898089.1230	493.14
E0145	BL-145	473145.7862	1897848.6315	486.84

BY13

POINT	DESC.	NORTH	EAST	ELEVATION
328	BY13-328	472076.3231	1899297.2934	488.88
E021	R5709-21	472001.5510	1898619.7711	471.47
329	BY13-329	472028.5580	1897926.4037	455.47

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.

$$$$$SYSTIME$$$$$
$$$$$$$$$DGN$$$$$$$$$$$$$$$$$
$$$$USERNAME$$$$

6/2/99

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02C-8

Location and Surveys

CALYX ENGINEERS + CONSULTANTS
6750 TRYON ROAD
CARY, NC 27518
phone: 919.851.1912
CALYXengineers.com
NC License # F-1333

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

REVISIONS

BY14

POINT	DESC.	NORTH	EAST	ELEVATION
E0147	BL-147	470568.1781	1899645.3531	454.99
330	BY14-330	469975.8509	1899258.2754	428.68

BY15

POINT	DESC.	NORTH	EAST	ELEVATION
331	BY15-331	465537.6180	1904139.8171	449.82
E0155	BL-155	465191.8234	1903557.5169	436.13
345	BY15-345	464739.1530	1903475.1400	420.38
346	BY15-346	464294.8640	1903810.9930	406.85
347	BY15-347	463762.9880	1904278.2970	391.09
348	BY15-348	463388.5430	1904534.4260	408.02

BY16

POINT	DESC.	NORTH	EAST	ELEVATION
E025	R5709-25	461410.8768	1906184.1492	392.03
332	BY16-332	461074.2291	1905398.8386	386.02

BY17

POINT	DESC.	NORTH	EAST	ELEVATION
E0165	BL-165	458313.2246	1907547.3719	381.05
333	BY17-333	458335.8487	1906867.0465	383.96

BY18

POINT	DESC.	NORTH	EAST	ELEVATION
E027	R5709-27	457766.3705	1908356.6825	380.20
334	BY18-334	457001.8350	1907931.7367	380.09

BY19

POINT	DESC.	NORTH	EAST	ELEVATION
335	BY19-335	455458.4849	1916838.5375	354.89
E0173	BL-173	455001.2230	1916516.0738	344.48

BY20

POINT	DESC.	NORTH	EAST	ELEVATION
336	BY20-336	451732.4015	1923006.2668	294.40
E033	R5709-33	451257.1190	1922975.7307	299.18

BY21

POINT	DESC.	NORTH	EAST	ELEVATION
E034	R5709-34	451044.0401	1923914.2736	294.39
337	BY21-337	450719.8865	1923279.1193	294.98

BY22

POINT	DESC.	NORTH	EAST	ELEVATION
338	BY22-338	451080.4092	1924874.6615	291.35
E0183	BL-183	450836.8417	1924416.5476	293.73

BY23

POINT	DESC.	NORTH	EAST	ELEVATION
E0184	BL-184	450659.0333	1925073.8549	286.76
339	BY23-339	450067.5402	1924928.8936	284.90

BY24

POINT	DESC.	NORTH	EAST	ELEVATION
340	BY24-340	450841.2337	1926511.9818	286.42
E035	R5709-35	450231.5555	1926512.1498	283.92
36	R5709-36	449328.1777	1926167.6190	277.20

BY25

POINT	DESC.	NORTH	EAST	ELEVATION
342	BY25-342	501034.2350	1871830.7440	328.41
E02	R5709-2	500806.6945	1872217.2290	346.32

BY26

POINT	DESC.	NORTH	EAST	ELEVATION
343	BY26-343	502106.3680	1876670.7110	433.93
344	BY26-344	501762.8440	1876965.3330	450.38
E04	R5709-4	501481.2878	1876950.7918	458.34

BM1 ELEVATION = 357.55
N 500259 E 1871423
RR SPIKE IN BASE OF 14" PINE

BM2 ELEVATION = 319.58
N 501632 E 1870994
RR SPIKE IN BASE OF 15" POPLAR

BM3 ELEVATION = 369.81
N 500862 E 1873627
RR SPIKE IN BASE OF 32" MAGNOLIA

BM4 ELEVATION = 449.96
N 501195 E 1876002
RR SPIKE IN BASE OF 14" PINE

BM5 ELEVATION = 462.79
N 501461 E 1878306
RR SPIKE IN BASE OF 10" PINE

BM6 ELEVATION = 511.15
N 501013 E 1880259
RR SPIKE IN BASE OF 14" HICKORY

BM7 ELEVATION = 474.85
N 499937 E 1882184
RR SPIKE IN BASE OF 32" HICKORY

BM8 ELEVATION = 484.05
N 498515 E 1883379
RR SPIKE IN BASE OF 13" COTTONWOOD

BM9 ELEVATION = 468.55
N 496816 E 1884637
RR SPIKE IN BASE OF 14" PINE

BM10 ELEVATION = 467.24
N 494982 E 1886016
RR SPIKE IN BASE OF 13" OAK

BM11 ELEVATION = 394.69
N 492827 E 1886847
RR SPIKE IN BASE OF 24" PINE

BM12 ELEVATION = 414.56
N 490772 E 1887433
RR SPIKE IN BASE OF 35" OAK

BM13 ELEVATION = 413.46
N 489476 E 1889132
RR SPIKE IN BASE OF 25" PINE

BM14 ELEVATION = 449.50
N 488480 E 1890375
RR SPIKE IN BASE OF 29" OAK

BM15 ELEVATION = 419.46
N 487710 E 1888356
RR SPIKE IN BASE OF 10" PINE

BM16 ELEVATION = 408.27
N 485947 E 1890250
RR SPIKE IN BASE OF 42" OAK

BM17 ELEVATION = 382.33
N 483945 E 1891532
RR SPIKE IN BASE OF 20" GUM

BM18 ELEVATION = 450.54
N 481853 E 1892830
RR SPIKE IN BASE OF 13" PINE

BM19 ELEVATION = 485.35
N 480098 E 1893959
RR SPIKE IN BASE OF 14" PINE

BM20 ELEVATION = 488.02
N 478097 E 1894932
RR SPIKE IN BASE OF 13" PINE

BM21 ELEVATION = 435.53
N 476072 E 1895185
RR SPIKE IN BASE OF 14" PINE

BM22 ELEVATION = 426.88
N 474463 E 1896517
RR SPIKE IN BASE OF 8" PINE

BM23 ELEVATION = 499.57
N 473217 E 1898179
RR SPIKE IN BASE OF 27" OAK

BM24 ELEVATION = 463.83
N 471517 E 1899374
RR SPIKE IN BASE OF 15" OAK

BM25 ELEVATION = 439.24
N 469970 E 1899696
RR SPIKE IN BASE OF 28" OAK

BM26 ELEVATION = 447.20
N 468552 E 1900699
RR SPIKE IN BASE OF 12" PINE

BM27 ELEVATION = 453.48
N 467453 E 1902351
RR SPIKE IN BASE OF 14" PINE

BM28 ELEVATION = 446.13
N 466037 E 1903389
RR SPIKE IN BASE OF 12" PINE

BM29 ELEVATION = 374.23
N 463859 E 1903963
RR SPIKE IN BASE OF 15" PINE

BM30 ELEVATION = 384.78
N 461941 E 1905516
RR SPIKE IN BASE OF 15" PINE

BM31 ELEVATION = 386.75
N 460856 E 1906748
RR SPIKE IN BASE OF 12" PINE

BM32 ELEVATION = 382.57
N 458861 E 1907555
RR SPIKE IN BASE OF 18" PINE

BM33 ELEVATION = 377.98
N 457860 E 1908748
RR SPIKE IN BASE OF 22" PINE

BM34 ELEVATION = 366.23
N 456533 E 1910663
RR SPIKE IN BASE OF 22" OAK

BM35 ELEVATION = 369.31
N 456873 E 1912788
RR SPIKE IN BASE OF 12" PINE

BM36 ELEVATION = 347.56
N 455832 E 1914646
RR SPIKE IN BASE OF 18" PINE

BM37 ELEVATION = 351.92
N 455212 E 1916766
RR SPIKE IN BASE OF 12" PINE

BM38 ELEVATION = 334.07
N 453331 E 1917707
RR SPIKE IN BASE OF 12" PINE

BM39 ELEVATION = 295.85
N 452656 E 1919678
RR SPIKE IN BASE OF 12" ELM

BM40 ELEVATION = 309.40
N 451360 E 1921643
RR SPIKE IN BASE OF 12" PINE

BM41 ELEVATION = 298.50
N 451316 E 1924071
RR SPIKE IN BASE OF 14" PINE

BM42 ELEVATION = 287.44
N 450497 E 1926645
RR SPIKE IN BASE OF 21" PINE

BM43 ELEVATION = 278.31
N 450048 E 1927866
RR SPIKE IN BASE OF 20" PINE

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.

$$$$SYSTIME$$$$
$$$$DGN$$$$$$$$$$$$$$$$$$
$$$$USERNAME$$$$

6/2/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02C-9

Location and Surveys

CALYX ENGINEERS + CONSULTANTS
6750 TRYON ROAD
CARY, NC 27518
phone: 919.851.1912
CALYXengineers.com
NC License # F-1333

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	500685.603	1871456.395							
LINE			N 79°34'51.3" E	1846.76					
PC	501019.584	1873272.706							
CURVE			N 79°39'48.9" E	95.98	00°09'55.2"(RT)	00°10'20.1"	95.98	47.99	33264.79
PT	501036.806	1873367.133							
LINE			N 79°44'46.5" E	1266.52					
PC	501262.256	1874613.421							
CURVE			N 81°59'50.8" E	344.12	04°30'08.5"(RT)	01°18'28.9"	344.21	172.19	4380.35
PCC	501310.164	1874954.194							
CURVE			N 84°55'06.8" E	231.62	01°20'23.6"(RT)	00°34'42.5"	231.63	115.82	9904.73
PT	501330.679	1875184.905							
LINE			N 85°35'18.6" E	1605.23					
PC	501454.152	1876785.378							
CURVE			S 86°53'08.0" E	291.33	15°03'06.7"(RT)	05°09'06.4"	292.17	146.93	1112.16
PT	501438.324	1877076.277							
LINE			S 79°21'34.7" E	378.84					
PC	501368.372	1877448.608							
CURVE			S 80°25'52.2" E	203.59	02°08'35.0"(LT)	01°03'09.3"	203.60	101.81	5443.33
PCC	501334.530	1877649.363							
CURVE			S 83°36'14.9" E	38.77	04°12'10.5"(LT)	10°50'18.8"	38.78	19.40	528.63
PT	501330.211	1877687.890							
LINE			S 85°42'20.2" E	184.42					
PC	501316.401	1877871.797							
CURVE			S 80°48'35.6" E	184.10	09°47'29.4"(RT)	05°18'43.5"	184.32	92.39	1078.59
PT	501286.998	1878053.534							
LINE			S 75°54'50.9" E	454.06					
PC	501176.491	1878493.942							
CURVE			S 75°47'58.9" E	105.91	00°13'44.0"(RT)	00°12'58.0"	105.91	52.95	26512.05
PT	501150.510	1878596.614							
LINE			S 75°41'06.9" E	1837.48					
PC	500696.196	1880377.046							
CURVE			S 75°13'01.4" E	355.40	00°56'11.0"(RT)	00°15'48.5"	355.41	177.71	21746.52
PT	500605.512	1880720.683							
LINE			S 74°44'55.9" E	433.69					
PC	500491.429	1881139.104							
CURVE			S 73°56'22.6" E	109.02	01°37'06.6"(RT)	01°29'04.4"	109.02	54.52	3859.48
PCC	500461.268	1881243.869							
CURVE			S 66°14'02.8" E	216.99	13°47'33.0"(RT)	06°20'27.6"	217.51	109.28	903.57
PCC	500373.822	1881442.456							
CURVE			S 54°40'59.2" E	160.87	09°18'34.2"(RT)	05°46'50.5"	161.04	80.70	991.16
PCC	500280.825	1881573.718							
CURVE			S 45°07'05.2" E	145.74	09°49'13.9"(RT)	06°43'48.1"	145.92	73.14	851.35
PCC	500177.982	1881676.986							
CURVE			S 39°06'15.8" E	115.45	02°12'24.9"(RT)	01°54'41.3"	115.46	57.74	2997.48
PT	500088.393	1881749.805							
LINE			S 38°00'03.3" E	805.35					
PC	499453.775	1882245.639							
CURVE			S 38°03'16.0" E	632.05	00°06'25.4"(LT)	00°01'01.0"	632.05	316.02	338299.35
PT	498956.085	1882635.239							
LINE			S 38°06'28.7" E	237.15					
PC	498769.485	1882781.594							
CURVE			S 38°01'10.3" E	685.11	00°10'36.8"(RT)	00°01'33.0"	685.11	342.55	221896.46
PCC	498229.757	1883203.572							
CURVE			S 38°03'30.0" E	340.70	00°15'16.3"(LT)	00°04'28.9"	340.70	170.35	76698.34
PT	497961.493	1883413.603							
LINE			S 38°11'08.1" E	805.62					
PC	497328.262	1883911.648							
CURVE			S 38°06'30.9" E	621.12	00°09'14.4"(RT)	00°01'29.3"	621.12	310.56	231107.59
PT	496839.535	1884294.977							
LINE			S 38°01'53.7" E	674.85					
PC	496307.978	1884710.748							
CURVE			S 37°50'46.0" E	64.15	00°22'15.3"(RT)	00°34'41.5"	64.15	32.08	9909.54
PCC	496257.318	1884750.109							
CURVE			S 37°44'51.8" E	490.57	00°10'26.8"(LT)	00°02'07.8"	490.57	245.28	161439.73
PCC	495869.418	1885050.428							
CURVE			S 37°42'00.2" E	404.38	00°16'09.9"(RT)	00°03'59.8"	404.38	202.19	85997.69
PCC	495549.466	1885297.716							
CURVE			S 34°23'24.0" E	350.07	06°21'02.4"(RT)	01°48'47.4"	350.25	175.30	3159.97
PT	495260.582	1885495.445							
LINE			S 31°12'52.8" E	405.13					
PC	494914.106	1885705.400							
CURVE			S 30°52'04.1" E	186.10	00°41'37.4"(RT)	00°22'21.9"	186.11	93.05	15371.08
PCC	494754.362	1885800.882							
CURVE			S 27°42'27.8" E	140.43	05°35'26.5"(RT)	03°58'46.5"	140.48	70.30	1439.74
PCC	494630.036	1885866.176							
CURVE			S 24°04'57.7" E	97.46	01°39'33.9"(RT)	01°42'09.6"	97.46	48.73	3365.09
PT	494541.062	1885905.944							
LINE			S 23°15'10.7" E	902.63					
PC	493711.755	1886262.293							
CURVE			S 21°46'59.3" E	267.04	02°56'22.9"(RT)	01°06'02.6"	267.07	133.56	5205.23
PCC	493463.785	1886361.390							
CURVE			S 19°02'24.2" E	279.50	02°32'47.2"(RT)	00°54'39.6"	279.52	139.78	6289.38
PCC	493199.576	1886452.571							
CURVE			S 17°53'35.5" E	157.55	00°15'09.8"(LT)	00°09'37.5"	157.55	78.77	35718.49
PCC	493049.650	1886500.976							
CURVE			S 20°17'14.1" E	184.18	04°32'07.3"(LT)	02°27'42.4"	184.23	92.16	2327.41
PCC	492876.894	1886564.837							
CURVE			S 25°37'35.4" E	229.02	06°08'35.5"(LT)	02°40'51.9"	229.13	114.67	2137.03
PCC	492670.402	1886663.888							
CURVE			S 29°16'45.5" E	229.78	01°09'44.6"(LT)	00°30'21.1"	229.79	114.90	11326.45
PT	492469.974	1886776.268							
LINE			S 29°51'37.8" E	1070.20					
PC	491541.850	1887309.112							
CURVE			S 30°18'53.9" E	165.99	00°54'32.2"(LT)	00°32'51.3"	165.99	83.00	10463.59
PCC	491398.555	1887392.897							
CURVE			S 31°01'11.5" E	538.55	00°30'03.0"(LT)	00°05'34.8"	538.55	269.28	61611.12
PCC	490937.025	1887670.430							
CURVE			S 31°03'22.7" E	402.78	00°25'40.6"(RT)	00°06'22.5"	402.78	201.39	53927.26
PT	490591.977	1887878.217							
LINE			S 30°50'32.4" E	543.94					
PC	490124.958	1888157.085							
CURVE			S 30°57'31.7" E	396.01	00°13'58.7"(LT)	00°03'31.8"	396.01	198.00	97391.66
PT	489785.368	1888360.799							
LINE			S 31°04'31.1" E	193.52					
PC	489619.622	1888460.686							
CURVE			S 31°00'12.2" E	605.34	00°08'37.8"(RT)	00°01'25.5"	605.34	302.67	241134.33
PT	489100.763	1888772.490							
LINE			S 30°55'53.3" E	821.80					
PC	488395.833	1889194.907							
CURVE			S 31°16'28.1" E	913.47	00°41'09.6"(LT)	00°04'30.4"	913.48	456.74	76294.48
PCC	487615.098	1889669.126							
CURVE			S 31°27'49.0" E	185.71	00°18'27.9"(RT)	00°09'56.5"	185.71	92.86	34576.69
PCC	487456.690	1889766.059							
CURVE			S 31°22'22.0" E	334.93	00°07'33.9"(LT)	00°02'15.5"	334.93	167.46	152187.72
PT	487170.728	1889940.425							
LINE			S 31°26'09.0" E	392.42					
PC	486835.903	1890145.091							
CURVE			S 31°28'16.1" E	789.83	00°04'14.3"(LT)	00°00'32.2"	789.83	394.92	640729.07
PT	486162.252	1890557.438							
LINE			S 31°30'23.3" E	945.41					

EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	485356.216	1891051.502							
CURVE			S 31°22'23.5" E	553.10	00°15'59.5"(RT)	00°02'53.5"	553.10	276.55	118905.35
PCC	484883.984	1891339.451							
CURVE			S 31°18'58.8" E	451.84	00°09'010.0"(LT)	00°02'01.7"	451.84	225.92	169452.66
PCC	484497.975	1891574.299							
CURVE			S 31°27'28.3" E	1262.26	00°07'49.1"(LT)	00°00'37.2"	1262.26	631.13	555064.34
PCC	483421.235	1892233.037							
CURVE			S 31°26'48.9" E	1344.73	00°09'07.9"(RT)	00°00'40.7"	1344.73	672.37	506198.94
PCC	482274.012	1892934.595							
CURVE			S 31°30'03.9" E	211.42	00°15'38.1"(LT)	00°07'23.7"	211.42	105.71	46486.94
PCC	482093.751	1893045.064							
CURVE			S 31°22'01.7" E	562.55	00°31'42.6"(RT)	00°05'38.2"	562.55	281.28	60988.08
PCC	481613.421	1893337.880							
CURVE			S 31°17'04.0" E	300.77	00°21'47.2"(LT)	00°07'14.6"	300.77	150.39	47460.20
PCC	481356.382	1893494.067							
CURVE			S 31°32'13.7" E	437.65	00°08'32.3"(LT)	00°01'57.1"	437.65	218.82	176205.26
PCC	480983.375	1893722.979							
CURVE			S 30°33'31.4" E	389.17	02°05'57.0"(RT)	00°32'21.7"	389.19	194.62	10622.77
PCC	480648.257	1893920.841							
CURVE			S 30°00'47.8" E	644.10	01°00'29.9"(LT)	00°09'23.6"	644.11	322.06	36600.83
PCC	480090.526	1894243.020							
CURVE			S 30°06'02.4" E	329.73	00°50'00.6"(RT)	00°15'10.0"	329.74	164.87	22666.38
PCC	479805.259	1894408.388							
CURVE			S 29°57'32.1" E	601.60	00°33'00.0"(LT)	00°05'29.1"	601.60	300.80	62671.07
PCC	479284.042	1894708.814							
CURVE			S 28°09'29.1" E	459.06	04°09'06.1"(RT)	00°54'15.1"	459.16	229.68	6336.66
PCC	478879.314	1894925.446							
CURVE			S 17°15'23.4" E	1742.82	17°39'05.3"(RT)	01°00'31.7"	1749.73	881.85	5679.53
PCC	477214.946	1895442.453							
CURVE			S 08°13'56.5" E	465.71	00°23'48.4"(RT)	00°05'06.7"	465.71	232.85	67251.49
PCC	476754.039	1895509.136							
CURVE			S 09°21'28.8" E	251.90	02°38'53.0"(LT)	01°03'04.2"	251.92	125.98	5450.74
PCC	476505.496	1895550.095							
CURVE			S 13°39'51.2" E	276.47	05°57'51.8"(LT)	02°09'22.9"	276.60	138.42	2657.07
PCC	476236.850	1895615.407							
CURVE			S 20°39'39.2" E	412.84	08°01'44.1"(LT)	01°56'35.5"	413.18	206.93	2948.54
PCC	475850.558	1895761.073							
CURVE			S 26°23'56.6" E	150.40	03°26'50.7"(LT)	02°17'30.6"	150.42	75.23	2500.00
PCC	475715.843	1895827.943							
CURVE			S 33°10'09.0" E	526.11	10°05'34.2"(LT)	01°54'57.3"	526.79	264.08	2990.50
PCC	475275.462	1896115.782							
CURVE			S 38°56'03.0" E	223.81	01°26'13.8"(LT)	00°38'31.7"	223.81	111.91	8922.69
PT	475101.370	1896256.428							
LINE			S 39°39'10.0" E	2391.68					
PC	473259.955	1897782.638							
CURVE			S 36°28'21.3" E	789.25	06°21'37.2"(RT)	00°48'19.6"	789.66	395.24	7113.48
PT	472625.284	1898251.800							
LINE			S 33°17'32.7" E	361.09					
PC	472323.458	1898450.006							
CURVE			S 33°21'08.8" E	144.05	00°07'12.1"(LT)	00°05'00.0"	144.05	72.02	68754.94
PT	472203.134	1898529.201							
LINE			S 33°24'44.9" E	3308.49					
PC	469441.447	1900351.061							
CURVE			S 36°37'07.9" E	355.62	06°24'46.1"(LT)	01°48'08.3"	355.81	178.09	3179.02
PCC	469156.015	1900563.188							
CURVE			S 39°45'25.5" E	902.86	00°08'11.0"(RT)	00°00'54.4"	902.86	451.43	379254.74
PT	468461.931	1901140.596							
LINE			S 39°41'20.0" E	678.15					
PC	467940.077	1901573.676							
CURVE			S 39°30'37.4" E	174.58	00°21'25.2"(RT)	00°12'16.1"	174.58	87.29	28019.75
PCC	467805.388	1901684.747							
CURVE			S 39°35'11.4" E	152.76	00°30'33.2"(LT)	00°20'00.0"	152.76	76.38	17188.73
PT	467687.658	1901782.095							
LINE			S 39°50'28.0" E	655.16					
PC	467184.607	1902201.833							
CURVE			S 39°36'43.6" E	213.64	00°27'28.9"(RT)	00°12'51.8"	213.64	106.82	26724.71
PCC	467020.026	1902338.045							
CURVE			S 36°52'31.3" E	213.55	05°00'55.6"(RT)	02°20'52.4"	213.62	106.88	2440.31
PT	466849.200	1902466.189							
LINE			S 34°22'03.5" E	176.36					
PC	466703.625	1902565.746							
CURVE			S 34°16'32.7" E	110.29	00°11'01.7"(RT)	00°10'00.0"	110.29	55.14	34377.47
PT	466612.491	1902627.857							
LINE			S 34°11'01.8" E	2534.18					
PC	464516.119	1904051.685							
CURVE			S 34°06'03.1" E	438.76	00°09'57.4"(RT)	00°02'16.2"	438.76	219.38	151492.00
PCC	464152.801	1904297.678							
CURVE			S 34°06'52.8" E	536.58	00°11'36.8"(LT)	00°02'09.9"	536.58	268.29	158842.98
PT	463708.560	1904598.618							
LINE			S 34°12'41.2" E	854.95					
PC	463001.546	1905079.310							
CURVE			S 34°09'14.2" E	184.00	00°06'54.0"(RT)	00°03'45.0"	184.00	92.00	91673.25
PT	462849.283	1905182.610							
LINE			S 34°05'47.2" E	1813.25					
PC	461347.740	1906199.094							
CURVE			S 28°38'34.7" E	243.16	10°54'24.9"(RT)	04°28'43.5"	243.53	122.13	1279.28
PCC	461134.339	1906315.652							
CURVE			S 23°01'50.0" E	1102.24	00°19'04.5"(RT)	00°01'43.8"	1102.24	551.12	198654.82
PT	460119.949	1906746.874							
LINE			S 22°52'17.8" E	1512.90					
PC	458725.994	1907334.890							
CURVE			S 23°11'54.9" E	354.74	00°39'14.2"(LT)	00°11'03.6"	354.74	177.37	31081.33
PCC	458399.936	1907474.629							
CURVE			S 41°19'47.8" E	558.10	35°36'31.7"(LT)	06°16'41.4"	567.19	293.09	912.62
PCC	457980.846	1907843.196							
CURVE			S 62°44'49.8" E	199.61	07°13'32.2"(LT)	03°37'02.6"	199.75	100.01	1583.90
PT	457889.440	1908020.651							
LINE			S 66°21'35.8" E	739.53					

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.

$$$$SYSTIME$$$$
$$$$USERNAME$$$$
$$$$DGN$$$$$$$$$$$$$$$$$$$$$$$

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02C-10

Location and Surveys

CALYX ENGINEERS + CONSULTANTS
6750 TRYON ROAD
CARY, NC 27518
phone: 919.851.1912
CALYXengineers.com
NC License # F-1333

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EL

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	457592.897	1908698.120							
CURVE			S 66°26'22.5" E	138.97	00°09'33.3"(LT)	00°06'52.5"	138.97	69.48	50000.00
PCC	457537.351	1908825.501							
CURVE			S 66°26'12.6" E	515.51	00°09'53.1"(RT)	00°01'55.0"	515.51	257.75	179288.93
PT	457331.272	1909298.024							
LINE			S 66°21'16.0" E	542.41					
PC	457113.725	1909794.891							
CURVE			S 66°14'01.6" E	264.60	00°14'29.0"(RT)	00°05'28.4"	264.60	132.30	62806.31
PCC	457007.091	1910037.049							
CURVE			S 66°47'40.3" E	251.57	01°21'46.5"(LT)	00°32'30.3"	251.58	125.80	10576.06
PCC	456907.964	1910268.269							
CURVE			S 76°19'35.4" E	470.29	17°42'03.7"(LT)	03°44'56.2"	472.16	237.98	1528.32
PCC	456796.794	1910725.226							
CURVE			S 85°26'18.4" E	189.25	00°31'22.2"(LT)	00°16'34.6"	189.25	94.63	20739.03
PT	456781.743	1910913.876							
LINE			S 85°41'59.5" E	315.35					
PC	456758.098	1911228.334							
CURVE			S 85°48'14.1" E	83.25	00°12'29.2"(LT)	00°15'00.0"	83.25	41.62	22918.31
PT	456752.007	1911311.359							
LINE			S 85°54'28.7" E	650.75					
PC	456705.571	1911960.449							
CURVE			S 85°40'07.6" E	287.50	00°28'42.4"(RT)	00°09'59.1"	287.50	143.75	34430.52
PCC	456683.858	1912247.129							
CURVE			S 85°46'37.0" E	91.73	00°41'41.2"(LT)	00°45'26.7"	91.73	45.87	7564.73
PCC	456677.103	1912338.610							
CURVE			S 85°58'20.5" E	121.56	00°18'14.1"(RT)	00°15'00.0"	121.56	60.78	22918.31
PT	456668.565	1912459.871							
LINE			S 85°49'13.5" E	752.75					
PC	456613.702	1913210.617							
CURVE			S 85°08'51.1" E	233.15	01°20'44.8"(RT)	00°34'38.0"	233.15	116.58	9926.28
PCC	456593.980	1913442.927							
CURVE			S 78°25'50.1" E	294.24	12°05'17.2"(RT)	04°06'02.2"	294.79	147.94	1397.25
PCC	456534.969	1913731.190							
CURVE			S 71°43'05.3" E	196.10	01°20'12.4"(RT)	00°40'54.0"	196.11	98.06	8405.38
PCC	456473.453	1913917.396							
CURVE			S 70°54'38.9" E	566.06	00°16'40.4"(RT)	00°02'56.7"	566.06	283.03	116707.73
PCC	456288.330	1914452.324							
CURVE			S 70°55'02.4" E	116.38	00°17'27.4"(LT)	00°15'00.0"	116.38	58.19	22918.31
PT	456250.281	1914562.312							
LINE			S 71°03'46.1" E	551.06					
PC	456071.444	1915083.547							
CURVE			S 69°55'18.8" E	206.65	02°16'54.7"(RT)	01°06'14.9"	206.66	103.35	5189.17
PCC	456000.501	1915277.637							
CURVE			S 58°36'14.8" E	531.23	20°21'13.2"(RT)	03°48'40.6"	534.04	269.86	1503.32
PCC	455723.756	1915731.091							
CURVE			S 46°37'08.2" E	172.39	03°37'00.0"(RT)	02°05'51.4"	172.42	86.24	2731.49
PCC	455605.350	1915856.386							
CURVE			S 44°44'02.2" E	1131.70	00°09'12.1"(RT)	00°00'48.8"	1131.70	565.85	422821.12
PCC	454801.412	1916652.891							
CURVE			S 44°41'56.5" E	100.25	00°05'00.7"(LT)	00°05'00.0"	100.25	50.12	68754.94
PT	454730.157	1916723.402							
LINE			S 44°44'26.9" E	2342.77					
PC	453066.090	1918372.480							
CURVE			S 46°20'51.5" E	99.43	03°12'49.3"(LT)	03°13'54.7"	99.44	49.73	1772.85
PCC	452997.458	1918444.419							
CURVE			S 52°42'27.4" E	213.80	09°30'22.5"(LT)	04°26'28.6"	214.04	107.27	1290.07
PCC	452867.922	1918614.506							
CURVE			S 61°37'53.9" E	213.27	08°20'30.4"(LT)	03°54'28.7"	213.46	106.92	1466.12
PCC	452766.591	1918802.161							
CURVE			S 66°14'23.9" E	188.62	00°52'29.6"(LT)	00°27'49.8"	188.62	94.31	12352.65
PCC	452690.594	1918974.796							
CURVE			S 66°27'59.6" E	565.08	00°25'18.3"(RT)	00°04'28.7"	565.08	282.54	76766.30
PCC	452464.967	1919492.875							
CURVE			S 66°26'45.0" E	705.49	00°22'49.2"(LT)	00°03'14.1"	705.49	352.75	106278.30
PCC	452183.043	1920139.583							
CURVE			S 66°29'11.6" E	529.00	00°17'56.0"(RT)	00°03'23.4"	529.00	264.50	101405.66
PCC	451971.992	1920624.656							
CURVE			S 70°13'53.6" E	407.51	07°47'19.9"(LT)	01°54'35.5"	407.82	204.23	3000.00
PT	451834.164	1921008.151							
LINE			S 74°07'33.5" E	6800.76					
PC	449974.001	1927549.563							
CURVE			S 71°13'05.4" E	210.63	05°48'56.4"(RT)	02°45'35.5"	210.72	105.45	2076.03
PT	449906.184	1927748.979							

EY1

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	501539.322	1870938.325							
LINE			S 31°15'03.6" E	1142.02					
PC	500563.005	1871530.792							
CURVE			S 30°52'42.6" E	127.44	00°44'41.9"(RT)	00°35'04.5"	127.44	63.72	9800.96
PCC	500453.633	1871596.194							
CURVE			S 28°30'41.3" E	278.43	03°59'20.7"(RT)	01°25'56.6"	278.49	139.30	4000.00
PCC	500208.968	1871729.100							
CURVE			S 26°18'36.5" E	121.06	00°24'49.0"(RT)	00°20'30.0"	121.06	60.53	16769.35
PT	500100.452	1871782.756							
LINE			S 26°06'12.0" E	453.04					
POT	499693.626	1871982.087							

EY2A

POINT	N	E	BEARING	DIST
POT	501554.292	1873034.767		
LINE			S 24°36'32.1" W	694.76
POT	500922.633	1872745.452		

EY2B

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	500922.461	1872744.519							
LINE			S 24°29'25.3" W	343.58					
PC	500609.792	1872602.091							
CURVE			S 19°41'49.9" W	355.89	09°35'10.7"(LT)	02°41'25.6"	356.31	178.57	2129.60
PT	500274.723	1872482.137							

EY3A

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	501635.083	1873342.147							
CURVE			S 26°08'17.1" E	196.52	02°42'29.4"(LT)	01°22'40.6"	196.54	98.29	4158.05
PT	501458.662	1873428.720							
LINE			S 27°29'31.8" E	126.31					
PC	501346.613	1873487.030							
CURVE			S 24°43'30.8" E	74.40	05°32'01.9"(RT)	07°26'06.3"	74.43	37.24	770.61
PCC	501279.033	1873518.149							
CURVE			S 13°46'08.6" E	90.94	16°22'42.5"(RT)	17°56'57.4"	91.25	45.94	319.21
PCC	501190.708	1873539.793							
CURVE			S 02°03'57.9" E	69.62	07°01'38.9"(RT)	10°05'15.7"	69.66	34.88	567.98
PT	501121.133	1873542.303							
LINE			S 01°26'51.5" W	52.90					
POT	501068.252	1873540.966							

EY3B

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	501067.993	1873539.537							
LINE			S 01°15'49.2" E	93.99					
PC	500974.026	1873541.610							
CURVE			S 01°04'13.7" W	148.87	04°40'06.0"(RT)	03°08'05.6"	148.92	74.50	1827.69
PT	500825.178	1873538.829							
LINE			S 03°24'16.7" W	172.89					
PC	500652.593	1873528.562							
CURVE			S 00°27'13.2" W	88.00	05°54'07.1"(LT)	06°42'14.1"	88.04	44.06	854.66
PCC	500564.598	1873527.865							
CURVE			S 08°57'44.7" E	87.28	12°55'48.7"(LT)	14°46'57.9"	87.47	43.92	387.59
PT	500478.381	1873541.462							

EY4

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	501544.888	1874127.671							
LINE			S 60°33'21.1" E	97.80					
PC	501496.813	1874212.836							
CURVE			S 67°53'48.1" E	353.35	14°40'54.0"(LT)	04°08'37.2"	354.32	178.13	1382.73
PT	501363.856	1874540.216							
LINE			S 75°14'15.1" E	90.88					
PC	501340.699	1874628.094							
CURVE			S 73°00'57.9" E	40.92	04°26'34.3"(RT)	10°51'16.1"	40.93	20.48	527.85
PCC	501328.746	1874667.230							
CURVE			S 39°42'28.9" E	65.37	62°10'24.0"(RT)	90°30'31.2"	68.69	38.17	63.30
PT	501278.455	1874708.995							

EY5

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	501652.950	1875258.985							
LINE			S 74°54'57.9" E	587.59					
PC	501500.039	1875826.329							
CURVE			S 76°25'00.2" E	177.10	03°00'04.6"(LT)	01°41'40.0"	177.12	88.58	3381.38
PT	501458.445	1875998.479							
LINE			S 77°55'02.5" E	81.61					
PC	501441.361	1876078.286							
CURVE			S 73°43'13.6" E	19.21	08°23'37.7"(RT)	43°39'33.2"	19.23	9.63	131.23
PCC	501435.977	1876096.724							
CURVE			S 45°39'18.5" E	12.75	47°44'12.6"(RT)	03°40'35.4"	13.13	6.97	15.75
PT	501427.065	1876105.842							
LINE			S 21°47'12.2" E	26.47					
POT	501402.485	1876115.667							

EY6A

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	502036.703	1876375.587							
LINE			S 03°28'36.8" E	56.46					
PC	501980.343	1876379.011							
CURVE			S 01°53'11.2" E	96.93	03°10'51.0"(RT)	03°16'52.7"	96.94	48.48	1746.12
PT	501883.470	1876382.202							
LINE			S 00°17'45.7" E	460.24					
POT	501423.231	1876384.580							

EY6B

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	501423.317	1876385.696							
LINE			S 09°02'39.5" E	99.34					
PC	501325.212	1876401.312							
CURVE			S 03°32'23.7" W	356.47	25°10'06.3"(RT)	07°00'13.6"	359.36	182.62	818.07
PT	500969.419	1876379.302							
LINE			S 16°07'26.8" W	160.11					
POT	500815.605	1876334.836							

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.

$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$
$$$$$$USERNAME$$$$$

6/2/99

REVISIONS

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02C-11

Location and Surveys

CALYX ENGINEERS + CONSULTANTS
6750 TRYON ROAD
CARY, NC 27518
phone: 919.851.1912
CALYXengineers.com
NC License # F-1333

EY7

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	499119.508	1883910.611							
CURVE			S 10°01'17.8" W	218.13	03°21'01.5"(LT)	01°32'08.6"	218.16	109.11	3730.86
PCC	498904.702	1883872.651							
CURVE			S 08°20'26.4" W	639.92	00°00'41.3"(LT)	00°00'06.5"	639.92	319.96	3195326.17
PCC	498271.549	1883779.825							
CURVE			S 08°24'21.9" W	152.97	00°08'32.3"(RT)	00°05'34.9"	152.97	76.49	61594.79
PT	498120.218	1883757.462							
LINE			S 08°28'38.0" W	203.45					
PC	497918.986	1883727.470							
CURVE			S 08°17'39.3" W	93.96	00°21'57.5"(LT)	00°23'22.2"	93.96	46.98	14710.44
PT	497826.008	1883713.915							
LINE			S 08°06'40.5" W	110.11					
PC	497716.997	1883698.379							
CURVE			S 33°38'02.1" W	76.51	51°02'43.2"(RT)	64°32'06.8"	79.10	42.39	88.78
PT	497653.298	1883656.003							

EY8

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	497318.706	1883919.165							
CURVE			S 36°51'31.1" W	113.89	17°12'17.9"(LT)	15°03'02.0"	114.31	57.59	380.69
PCC	497227.584	1883850.851							
CURVE			S 27°02'29.3" W	131.35	02°25'45.7"(LT)	01°50'57.9"	131.36	65.69	3098.04
PT	497110.595	1883791.136							
LINE			S 25°49'36.5" W	375.55					
POT	496772.554	1883627.525							

EY9A

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	488768.199	1891224.136							
LINE			S 68°41'29.9" W	751.98					
PC	488494.940	1890523.565							
CURVE			S 68°47'45.9" W	218.79	00°12'32.2"(RT)	00°05'43.8"	218.79	109.40	60000.00
PT	488415.806	1890319.584							
LINE			S 68°54'02.0" W	216.64					
PC	488337.817	1890117.466							
CURVE			S 68°46'17.0" W	57.09	00°15'30.1"(LT)	00°27'09.3"	57.09	28.54	12659.55
PT	488317.146	1890064.253							
LINE			S 68°38'31.9" W	536.61					
PC	488121.717	1889564.493							
CURVE			S 69°34'44.8" W	178.10	01°52'25.8"(RT)	01°03'07.4"	178.11	89.06	5446.05
PT	488059.574	1889397.583							

EY9B

POINT	N	E	BEARING	DIST
POT	488059.574	1889397.583		
LINE			S 68°39'18.8" W	1385.64
POT	487555.230	1888106.988		

EY10A

POINT	N	E	BEARING	DIST
POT	481149.704	1894367.229		
LINE			S 53°03'39.1" W	641.70
POT	480764.063	1893854.333		

EY10B

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	480761.154	1893856.027							
CURVE			S 54°18'26.2" W	212.46	01°23'15.8"(LT)	00°39'11.3"	212.47	106.24	8772.44
PT	480637.194	1893683.472							
LINE			S 53°36'48.3" W	429.39					
POT	480382.467	1893337.799							

EY11

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	477957.631	1895892.417							
CURVE			N 51°33'44.6" W	42.04	06°12'41.2"(LT)	14°46'08.2"	42.06	21.05	387.95
PCC	477983.764	1895859.490							
CURVE			N 60°48'34.0" W	206.36	12°16'57.6"(LT)	05°56'25.9"	206.76	103.78	964.49
PCC	478084.411	1895679.333							
CURVE			N 79°49'54.3" W	300.79	25°45'43.0"(LT)	08°29'33.6"	303.34	154.28	674.65
PT	478137.513	1895383.263							
LINE			S 87°17'14.2" W	155.27					
POT	478130.165	1895228.171							

EY12

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	473837.083	1898092.237							
LINE			S 03°01'09.4" W	133.62					
PC	473703.646	1898085.198							
CURVE			S 02°41'01.2" W	59.38	00°40'16.3"(LT)	01°07'49.4"	59.38	29.69	5068.63
PCC	473644.334	1898082.418							
CURVE			S 02°47'52.8" W	184.48	00°53'59.6"(RT)	00°29'16.0"	184.49	92.24	11746.31
PCC	473460.070	1898073.413							
CURVE			S 27°24'34.5" W	312.69	48°19'23.8"(RT)	15°00'00.3"	322.15	171.36	381.97
PT	473182.483	1897929.466							
LINE			S 51°34'16.4" W	65.25					
POT	473141.929	1897878.353							

EY13A

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	472167.080	1899575.596							
CURVE			S 74°47'33.9" W	219.63	06°49'07.7"(RT)	03°06'10.1"	219.76	110.01	1846.59
PCC	472109.468	1899363.653							
CURVE			S 80°13'32.2" W	115.68	04°02'49.0"(RT)	03°29'51.7"	115.70	57.88	1638.10
PCC	472089.829	1899249.654							
CURVE			S 83°23'25.2" W	156.96	02°16'57.1"(RT)	01°27'14.8"	156.97	78.49	3940.23
PT	472071.762	1899093.739							
LINE			S 84°31'53.8" W	451.54					
POT	472028.732	1898644.253							

EY13B

POINT	N	E	BEARING	DIST
POT	472034.762	1898640.275		
LINE			S 88°12'25.7" W	688.47
POT	472013.222	1897952.146		

EY14

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	470525.784	1899635.734							
CURVE			S 42°38'53.6" W	62.26	09°53'37.1"(LT)	15°52'12.7"	62.34	31.25	361.03
PCC	470479.987	1899593.551							
CURVE			S 36°31'32.3" W	65.24	02°21'05.5"(LT)	03°36'14.7"	65.25	32.63	1589.74
PT	470427.560	1899554.720							
LINE			S 35°20'59.6" W	496.01					
POT	470022.997	1899267.744							

EY15A

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	465678.619	1904335.812							
LINE			S 58°28'12.2" W	77.94					
PC	465637.860	1904269.377							
CURVE			S 58°00'24.5" W	63.98	00°55'35.4"(LT)	01°26'53.5"	63.98	31.99	3956.35
PCC	465603.964	1904215.118							
CURVE			S 57°48'04.0" W	51.51	00°30'54.4"(RT)	01°00'00.0"	51.51	25.76	5729.58
PT	465576.515	1904171.529							
LINE			S 58°03'31.2" W	341.20					
PC	465396.002	1903881.987							
CURVE			S 57°53'32.0" W	132.74	00°19'58.3"(LT)	00°15'02.8"	132.74	66.37	22847.39
PCC	465325.451	1903769.553							
CURVE			S 59°10'53.5" W	221.71	02°54'41.3"(RT)	01°18'46.9"	221.74	110.89	4363.68
PT	465211.862	1903579.146							

EY15B

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	465218.340	1903574.746							
LINE			S 55°48'58.2" W	68.26					
PC	465179.986	1903518.275							
CURVE			S 43°05'05.9" W	86.87	25°27'44.5"(LT)	29°04'09.5"	87.59	44.53	197.10
PCC	465116.539	1903458.934							
CURVE			S 11°51'17.6" W	211.81	36°59'52.3"(LT)	17°09'56.9"	215.53	111.67	333.78
PCC	464909.250	1903415.421							
CURVE			S 15°21'48.9" E	69.74	17°26'20.7"(LT)	24°54'40.4"	70.00	35.28	230.00
PCC	464842.007	1903433.897							
CURVE			S 33°37'10.8" E	104.82	19°04'23.1"(LT)	18°06'43.1"	105.31	53.14	316.34
PCC	464754.719	1903491.934							
CURVE			S 38°36'32.8" E	154.83	09°05'39.1"(RT)	05°52'03.4"	154.99	77.66	976.48
PT	464633.734	1903588.547							
LINE			S 34°03'43.3" E	278.64					
PC	464402.901	1903744.610							
CURVE			S 44°03'19.2" E	127.02	19°59'11.9"(LT)	15°39'18.1"	127.67	64.49	365.99
PCC	464311.613	1903832.935							
CURVE			S 50°48'43.3" E	102.76	06°28'23.7"(RT)	06°17'45.6"	102.82	51.46	910.03
PCC	464246.682	1903912.583							
CURVE			S 40°50'11.3" E	79.36	13°28'40.4"(RT)	16°56'36.6"	79.55	39.96	338.16
PT	464186.638	1903964.478							
LINE			S 34°05'51.1" E	662.08					
PC	463638.378	1904335.643							
CURVE			S 34°13'26.1" E	25.28	00°15'10.2"(LT)	01°00'00.0"	25.28	12.64	5729.57
PT	463617.474	1904349.863							
LINE			S 34°21'01.2" E	258.00					
PC	463404.468	1904495.440							
CURVE			S 33°35'02.3" E	32.10	01°31'57.9"(RT)	04°46'28.7"	32.10	16.05	1200.00
PT	463377.725	1904513.197							
LINE			S 32°49'03.3" E	69.67					
PC	463319.176	1904550.955							
CURVE			S 22°48'42.4" E	75.04	20°00'41.9"(RT)	26°32'01.4"	75.42	38.10	215.94
PCC	463250.008	1904580.047							
CURVE			S 07°51'22.5" W	180.93	41°19'27.9"(RT)	22°20'51.1"	184.92	96.69	256.39
PT	463070.771	1904555.315							

EY16

POINT	N	E	BEARING	DIST
POT	461412.146	1906155.494		
LINE			S 66°55'30.0" W	623.83
POT	461167.644	1905581.573		

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.

$$$$SYSTIME$$$$ $$$$DGN$$$$ $$$$USERNAME$$$$

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02C-12

Location and Surveys

CALYX ENGINEERS + CONSULTANTS
6750 TRYON ROAD
CARY, NC 27518
phone: 919.851.1912
CALYXengineers.com
NC License # F-1333

6/2/99

REVISIONS

EY17

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	458314.156	1907517.717							
CURVE			N 85°25'27.5" W	120.86	02°51'46.0"(LT)	02°22'06.5"	120.87	60.45	2419.11
PT	458323.798	1907397.244							
LINE			N 86°51'20.5" W	516.37					
POT	458352.121	1906881.649							

EY18

POINT	N	E	BEARING	DIST
POT	457754.698	1908328.477		
LINE			S 29°13'14.6" W	639.23
POT	457196.810	1908016.420		

EY19

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	455428.618	1916834.092							
CURVE			S 43°18'17.7" W	187.77	08°05'26.5"(LT)	04°18'18.6"	187.93	94.12	1330.86
PT	455291.972	1916705.301							
LINE			S 39°15'34.4" W	384.33					
POT	454994.392	1916462.085							

EY20

POINT	N	E	BEARING	DIST
POT	451914.989	1923049.653		
LINE			S 08°37'02.0" W	641.28
POT	451280.951	1922953.569		

EY21

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	451060.075	1923730.296							
CURVE			S 37°08'53.5" W	151.15	06°06'25.0"(RT)	04°02'18.1"	151.22	75.68	1418.79
PCC	450939.596	1923639.019							
CURVE			S 50°51'53.1" W	173.91	21°19'34.3"(RT)	12°11'32.3"	174.92	88.48	469.93
PCC	450829.834	1923504.126							
CURVE			S 65°55'26.4" W	133.33	08°47'32.3"(RT)	06°35'16.1"	133.46	66.86	869.72
PT	450775.441	1923382.393							
LINE			S 70°19'12.6" W	182.20					
POT	450714.083	1923210.836							

EY22

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	451056.089	1924820.016							
CURVE			S 81°18'41.5" W	129.77	00°12'14.7"(LT)	00°09'26.2"	129.77	64.89	36432.46
PT	451036.485	1924691.732							
LINE			S 81°12'34.1" W	575.80					
POT	450948.490	1924122.695							

EY23

POINT	N	E	BEARING	DIST
POT	450664.429	1925121.619		
LINE			S 15°58'26.1" W	639.14
POT	450049.965	1924945.727		

EY24A

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	451672.545	1926492.816							
CURVE			S 00°21'55.2" E	111.62	00°32'31.2"(LT)	00°29'08.1"	111.62	55.81	11799.53
PCC	451560.928	1926493.528							
CURVE			S 00°09'08.3" E	96.81	00°58'05.1"(RT)	01°00'00.0"	96.81	48.41	5729.58
PCC	451464.119	1926493.786							
CURVE			S 00°35'44.5" W	727.96	00°31'40.4"(RT)	00°04'21.1"	727.96	363.98	79009.74
PCC	450736.199	1926486.217							
CURVE			S 01°23'54.1" W	456.78	01°04'38.8"(RT)	00°14'09.1"	456.79	228.40	24290.85
PT	450279.551	1926475.070							

EY24B

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	450281.005	1926469.959							
CURVE			S 16°30'55.0" W	481.01	01°12'03.4"(LT)	00°14'58.8"	481.02	240.52	22948.65
PT	449819.842	1926333.223							
LINE			S 15°54'53.3" W	168.54					
POT	449657.759	1926287.007							

EY25

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	501150.056	1871817.254							
CURVE			S 14°16'02.6" E	49.65	41°11'53.7"(LT)	81°11'39.7"	50.74	26.52	70.57
PCC	501101.933	1871829.491							
CURVE			S 41°29'39.1" E	89.70	13°15'19.4"(LT)	14°44'37.8"	89.90	45.15	388.61
PT	501034.742	1871888.924							
LINE			S 48°07'18.8" E	207.66					
PC	500896.118	1872043.543							
CURVE			S 43°02'41.7" E	119.76	10°09'14.2"(RT)	08°28'03.9"	119.91	60.11	676.63
PT	500808.598	1872125.285							

EY26

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	501872.541	1876867.094							
LINE			S 37°32'20.3" E	103.22					
PC	501790.693	1876929.986							
CURVE			S 16°42'21.4" E	183.41	41°39'57.8"(RT)	22°13'13.2"	187.51	98.12	257.85
PT	501615.026	1876982.709							
LINE			S 04°07'37.5" W	162.44					
POT	501453.008	1876971.019							

EY27

POINT	N	E	BEARING	DIST
POT	500796.019	1873145.194		
LINE			S 01°29'26.4" W	291.15
POT	500504.968	1873137.620		

EY28

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	500798.932	1873537.268							
LINE			N 73°44'34.8" E	261.42					
PC	500872.117	1873788.239							
CURVE			N 84°23'25.7" E	113.35	21°17'41.9"(RT)	18°40'44.2"	114.01	57.67	306.74
PCC	500883.196	1873901.046							
CURVE			S 78°03'54.6" E	57.88	13°47'37.4"(RT)	23°46'21.5"	58.02	29.15	241.02
PT	500871.226	1873957.679							

EY29

POINT	N	E	BEARING	DIST
POT	501238.929	1874484.472		
LINE			S 19°34'59.1" W	305.00
POT	500951.572	1874382.244		

EY30

POINT	N	E	BEARING	DIST
POT	501641.474	1874671.126		
LINE			S 22°44'02.5" W	304.76
POT	501360.395	1874553.351		

EY31

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	501306.632	1874920.443							
CURVE			S 11°16'28.7" W	71.26	14°49'45.7"(RT)	20°45'10.3"	71.46	35.93	276.09
PT	501236.750	1874906.511							
LINE			S 18°41'21.5" W	194.75					
PC	501052.268	1874844.105							
CURVE			S 20°52'07.0" W	33.36	04°21'30.9"(RT)	13°03'38.2"	33.37	16.69	438.69
PT	501021.092	1874832.220							

EY32

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	501337.752	1875276.593							
LINE			S 14°10'37.9" W	91.54					
PC	501249.003	1875254.174							
CURVE			S 14°48'52.1" W	44.49	01°16'28.4"(RT)	02°51'53.2"	44.49	22.25	2000.00
PT	501205.992	1875242.798							
LINE			S 15°27'06.3" W	148.94					
POT	501062.439	1875203.117							

EY33

POINT	N	E	BEARING	DIST
POT	465592.513	1903223.317		
LINE			S 54°09'55.0" W	193.59
POT	465479.175	1903066.371		

EY34

POINT	N	E	BEARING	DIST
POT	464482.342	1903690.901		
LINE			S 55°50'06.0" W	224.80
POT	464356.098	1903504.895		

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.

$$$$SYSTIME$$$$
$$$$$DGN$$$$$$$$$$$$$$$$$$$$$
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02C-13

Location and Surveys

CALYX
ENGINEERS + CONSULTANTS
6750 TRYON ROAD
CARY, NC 27518
phone: 919.851.1912
CALYXengineers.com
NC License # F-1333

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EY35

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	463709.016	1904287.823							
LINE			S 55°54'08.9" W	49.61					
PC	463681.204	1904246.742							
CURVE			S 51°09'15.6" W	111.76	09°29'46.6"(LT)	08°29'15.5"	111.88	56.07	675.05
PT	463611.109	1904159.702							

EY36

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	456902.969	1912947.712							
CURVE			S 05°27'19.7" W	269.40	02°01'06.1"(LT)	00°44'57.0"	269.42	134.72	7648.03
PT	456634.786	1912922.099							

EY37

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	452523.372	1919359.762							
LINE			S 23°49'22.0" W	82.54					
PC	452447.869	1919326.425							
CURVE			S 43°44'19.9" W	210.09	39°49'55.8"(RT)	18°34'48.5"	214.38	111.73	308.37
PT	452296.080	1919181.175							

EY38

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
PC	451302.332	1926411.908							
CURVE			N 85°06'57.2" E	970.26	01°48'01.8"(RT)	00°11'08.0"	970.30	485.19	30876.93
PT	451384.940	1927378.644							

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

$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$
$$$$$USERNAME$$$$

PROPOSED ALIGNMENT CONTROL SHEET

SECTION 1

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02D-1

Location and Surveys

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: (919) 851-1912 www.NV5.com
NC License # F-1333
formerly QK-TK Engineers & Consultants

L

TYPE	STATION	NORTH	EAST
POT	10+00.00	500655.6063	1871474.5982
PC	40+38.78	501202.3171	1874463.7913
PT	47+82.95	501298.2733	1875201.4216
PC	72+26.37	501488.2408	1877637.4441
PT	75+65.62	501453.0257	1877972.9776
PC	109+65.37	500490.7538	1881233.7006
PT	115+85.09	500148.0058	1881738.1233
TS	172+04.88	495722.6209	1885201.9323
SC	173+24.88	495627.8795	1885275.5797
CS	194+42.59	493756.9197	1886244.0051
ST	195+62.59	493642.0862	1886278.8354
TS	198+45.74	493370.8555	1886360.1167
SC	200+05.74	493217.8964	1886407.0492
CS	207+81.98	492505.8920	1886713.2774
ST	209+41.98	492366.6194	1886792.0317
PC	216+44.71	491757.1976	1887141.9302
PT	224+49.38	491063.4415	1887549.5817
TS	242+14.21	489550.9182	1888458.9300
SC	244+54.21	489341.6804	1888576.3092
CS	248+73.08	488942.3986	1888697.0350
ST	251+13.08	488703.1779	1888715.2504
TS	254+57.04	488359.5741	1888731.0416
SC	256+97.04	488120.3535	1888749.2571
CS	267+92.02	487211.7791	1889303.5552
ST	270+32.02	487086.1330	1889507.9357
TS	273+58.80	486923.4399	1889791.3403
SC	275+98.80	486797.7938	1889995.7208
CS	280+26.44	486500.7325	1890300.7750
ST	282+66.44	486299.7593	1890431.8021
PC	292+89.01	485426.7487	1890964.2676
PRC	301+70.72	484693.0205	1891452.7785
PT	310+52.43	483959.2923	1891941.2894
PC	344+00.28	481101.1213	1893684.5414
PT	354+05.60	480236.3512	1894197.1837
EO SECTION 2 POT	362+18.44	479531.9836	1894602.8639

EY1

TYPE	STATION	NORTH	EAST
POT	10+00.00	499693.6259	1871982.0873
PC	14+53.04	500100.4524	1871782.7557
PCC	15+74.09	500208.9676	1871729.1003
PCC	18+52.58	500453.6332	1871596.1942
PT	19+80.02	500563.0053	1871530.7921
POT	31+22.04	501539.3223	1870938.3250

Y1

TYPE	STATION	NORTH	EAST
POT	10+00.00	500768.2100	1872090.2698
PC	10+53.30	500820.6377	1872080.6810
PT	11+52.15	500905.3360	1872033.2608
PC	13+46.00	501034.7423	1871888.9242
PT	14+37.43	501102.9928	1871828.3846

Y2A

TYPE	STATION	NORTH	EAST
PC	10+00.00	500274.7016	1872482.1976
PRC	13+30.14	500585.9128	1872591.3903
PT	15+51.27	500802.2858	1872616.8472
POT	16+12.48	500862.5044	1872605.8334

DR1

TYPE	STATION	NORTH	EAST
PC	10+00.00	500521.5394	1872434.0333
PRC	10+81.19	500596.8419	1872459.2829
PT	12+66.64	500710.8706	1872577.5070
POT	13+11.10	500707.5119	1872621.8407

Y2

TYPE	STATION	NORTH	EAST
POT	17+43.59	500902.0740	1872822.1838
PC	18+32.01	500990.4125	1872825.7739
PT	20+65.38	501215.9365	1872879.7923
POT	24+35.69	501552.6076	1873034.0218

Y3

TYPE	STATION	NORTH	EAST
PC	10+00.00	500478.3808	1873541.4622
PT	11+48.03	500625.0886	1873526.9855
PC	13+37.04	500813.7648	1873538.1534
PCC	16+82.48	501159.0540	1873542.6216
PT	18+52.18	501321.8427	1873499.9197
PC	20+06.42	501458.6623	1873428.7197
PT	21+92.35	501625.6797	1873347.0700

DR1D

TYPE	STATION	NORTH	EAST
POT	10+00.00	500798.9342	1873537.2756
PC	12+61.42	500872.1166	1873788.2392
PCC	13+75.42	500883.1964	1873901.0465
PT	14+33.44	500871.2261	1873957.6788

Y4

TYPE	STATION	NORTH	EAST
POT	10+00.00	501192.8010	1874411.7612
PC	10+53.42	501245.3506	1874402.1501
PT	13+60.02	501487.1740	1874229.9123
POT	18+56.14	501731.0510	1873797.8787

Y4A

TYPE	STATION	NORTH	EAST
POT	10+00.00	500853.2744	1874346.9681
PC	11+82.25	501024.8797	1874408.3326
PT	13+13.33	501154.0353	1874418.8513
POT	13+52.74	501192.8010	1874411.7612

Y4B

TYPE	STATION	NORTH	EAST
POT	10+00.00	501347.7793	1874366.3147
PC	11+23.14	501374.8165	1874486.4516
PT	12+75.57	501469.0796	1874598.8911
POT	14+62.48	501641.4739	1874671.1255

Y5A

TYPE	STATION	NORTH	EAST
POT	10+00.00	500988.8242	1874822.6442
PC	11+86.98	501165.9483	1874882.5606
PT	12+53.53	501231.5917	1874889.4366
POT	12+88.79	501266.6107	1874885.3043

Y5B

TYPE	STATION	NORTH	EAST
POT	10+00.00	501062.4389	1875203.1175
PC	11+24.71	501182.6437	1875236.3443
PT	12+11.59	501268.6871	1875244.6238
POT	12+44.45	501301.4432	1875242.0694

Y5C

TYPE	STATION	NORTH	EAST
POT	10+00.00	501652.5887	1875260.3257
PC	12+01.66	501600.1090	1875455.0410
PT	15+09.09	501378.1593	1875639.2259
POT	15+54.70	501332.6910	1875642.7716

Y5D

TYPE	STATION	NORTH	EAST
POT	10+00.00	501537.4904	1875564.7456
PC	10+14.13	501546.8313	1875575.3516
PT	10+58.47	501556.5107	1875616.8040
POT	13+97.67	501468.2401	1875944.3147

Y6

TYPE	STATION	NORTH	EAST
POT	10+00.00	500815.6050	1876334.8361
PC	11+54.43	500963.9333	1876377.8212
PT	15+28.61	501334.3708	1876399.8308
POT	15+86.00	501391.0004	1876390.4955

Y6A

TYPE	STATION	NORTH	EAST
POT	10+00.00	501390.5523	1876384.7488
POT	14+59.98	501850.5304	1876382.3722

DR1A

TYPE	STATION	NORTH	EAST
POT	10+00.00	501141.0239	1876777.4033
PC	10+77.49	501218.2698	1876783.5973
PRC	11+51.46	501277.8972	1876748.1507
PT	12+58.94	501361.5088	1876689.0559
POT	13+11.56	501413.9640	1876684.9653

DR1B

TYPE	STATION	NORTH	EAST
POT	10+00.00	501148.1505	1876904.4386
PC	10+82.05	501230.1421	1876907.5244
PRC	11+59.77	501296.0174	1876873.1867
PT	12+51.85	501372.3156	1876827.6351
POT	13+04.46	501424.7707	1876823.5446

DR1C

TYPE	STATION	NORTH	EAST
POT	10+00.00	501436.1764	1876969.8040
PC	11+79.31	501615.0257	1876982.7091
PT	13+66.83	501790.6930	1876929.9865
POT	14+70.05	501872.5407	1876867.0940

SR2

TYPE	STATION	NORTH	EAST
POT	10+00.00	501294.8372	1877473.0528
PC	14+21.52	501319.8651	1877052.2751
PT	14+93.20	501365.8895	1877005.3952
POT	15+66.04	501438.5103	1876999.7321

RR1

TYPE	STATION	NORTH	EAST
PC	10+00.00	501310.8228	1877768.6314
PCC	11+88.05	501392.3856	1877599.5818
PCC	13+64.40	501505.7037	1877465.2612
PT	14+89.75	501602.7485	1877385.9828
POT	15+89.75	501682.6739	1877325.8836

Y7

TYPE	STATION	NORTH	EAST
POT	10+00.00	497712.1061	1883644.7352
PC	10+47.20	497749.8284	1883673.1086
PT	11+66.90	497859.1400	1883718.7492
PC	22+28.80	498909.7234	1883873.4077
PT	24+40.79	499118.3486	1883910.7972

Y8

TYPE	STATION	NORTH	EAST
POT	10+00.00	496768.8864	1883625.4987
PC	14+35.84	497160.9100	1883815.9473
PT	16+08.34	497301.5109	1883914.6262
POT	16+49.26	497330.8374	1883943.1594

DR2A

TYPE	STATION	NORTH	EAST
POT	10+00.00	496075.9926	1884791.2849
PC	11+78.86	496224.3368	1884691.3589
PT	12+40.74	496282.3262	1884692.8696
POT	12+98.61	496328.5668	1884727.6502

DR2B

TYPE	STATION	NORTH	EAST
POT	10+00.00	495766.1105	1884786.6708
PC	11+43.07	495800.5054	1884925.5450
PT	12+56.26	495857.9086	1885021.1645
POT	13+16.13	495902.4326	1885061.1913

DR2C

TYPE	STATION	NORTH	EAST
POT	10+00.00	494945.1290	1885457.6251
PC	10+25.41	494964.0626	1885474.5779
PRC	10+82.88	495016.9458	1885495.3541
PT	11+34.12	495063.0294	1885516.1244
POT	12+60.97	495155.2691	1885603.2093

DR2D

TYPE	STATION	NORTH	EAST
POT	10+00.00	489774.2545	1888024.4063
PC	10+17.72	489783.3834	1888039.5906
PRC	10+90.26	489844.7138	1888070.8550
PT	12+17.52	489958.3476	1888116.8606
POT	13+02.02	490013.7359	1888180.6781

DR3

TYPE	STATION	NORTH	EAST
POT	10+00.00	489222.0781	1888157.2099
POT	14+27.02	489443.7277	1888522.1994

DR4

TYPE	STATION	NORTH	EAST
POT	10+00.00	489172.2359	1888184.6511
POT	14+27.08	489393.9145	1888549.6885

Y9A

TYPE	STATION	NORTH	EAST
POT	10+00.00	489236.1684	1888621.9000
PC	15+54.61	489333.6153	1889167.8837
PT	23+44.81	489145.2703	1889911.0276
PC	28+88.06	488806.6210	1890335.8065
PT	36+40.43	488698.8253	1891046.2766
POT	38+31.34	488768.1995	1891224.1355

Y9C

TYPE	STATION	NORTH	EAST
POT	10+00.00	488361.2886	1890178.1562
PC	12+95.52	488468.0008	1890453.7390
PT	15+35.79	488641.6412	1890606.2831
POT	15+65.29	488670.2879	1890613.3017

Y9B

TYPE	STATION	NORTH	EAST
PC	10+00.00	488092.3164	1889377.7440
PT	13+54.35	488395.8439	1889194.9009
PC	16+03.48	488609.5466	1889066.8430
PT	20+34.75	489022.9181	1888971.2148
POT	23+15.63	489302.7789	1888995.1110

DR5

TYPE	STATION	NORTH	EAST
POT	10+00.00	488900.8652	1888245.2891
PC	12+82.51	489047.8757	1888486.5402
PT	14+16.12	489100.7284	1888608.7755
POT	14+70.84	489115.2695	1888661.5341

RR2

TYPE	STATION	NORTH	EAST
POT	10+00.00	488254.5704	1889076.8498
POT	18+12.16	488688.9739	1888390.6274

Y9E

TYPE	STATION	NORTH	EAST
POT	10+00.00	487703.8142	1888878.4969
PC	10+53.97	487735.0992	1888922.4682
PRC	11+81.94	487832.1994	1889003.6689
PT	13+71.37	487958.4488	1889138.8066
POT	16+02.69	488042.6431	1889354.2564

Y9D

TYPE	STATION	NORTH	EAST
PC	10+00.00	487481.7823	1887774.3210
PRC	12+63.38	487526.2466	1888032.8777
PRC	17+12.92	487485.7527	1888467.6661
PT	22+27.53	487469.6013	1888962.7639
POT	22+80.77	487492.4625	1889010.8386

DR9

TYPE	STATION	NORTH	EAST
PC	10+00.00	487553.7784	1888182.2625
PT	10+56.59	487597.0210	1888213.9634
POT	15+99.64	487794.5597	1888719.8075

Y9F

TYPE	STATION	NORTH	EAST
POT	10+00.00	486805.4073	1889984.7443
PC	10+51.76	486852.5166	1890006.1823
PT	12+95.65	487086.4165	1889991.9633
POT	23+64.93	487998.8456	1889434.4381

Y10

TYPE	STATION	NORTH	EAST
POT	10+00.00	480382.4673	1893337.7990
POT	16+71.07	480780.8274	1893877.8455
POT	22+83.91	481149.7045	1894367.2293

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 INFORMATINO REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

6/2/99

17-AUG-2021 11:54
L:\Projects\2021\2021014.20\SUR\rw_sheets\r-5709_ls_rw02d-1.dgn
admbrath
A1 NCFAB-TRANSRW

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02D-2
Location and Surveys	

NV5
NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: (919) 851-1912 www.NV5.com
NC License # F-1333
Formerly DeLIN Engineers & Consultants

PROPOSED ALIGNMENT CONTROL SHEET

SECTION 2

EQ SECTION 1

L

TYPE	STATION	NORTH	EAST
POT	361+50.00	479531.9836	1894602.8639
TS	362+42.58	479451.7616	1894649.0677
SC	363+62.58	479347.5666	1894708.5929
CS	384+03.99	477428.5560	1895372.2330
ST	385+23.99	477309.8483	1895389.7929
TS	390+69.02	476770.4062	1895467.6571
SC	392+69.02	476572.7924	1895498.3967
CS	407+45.51	475237.2995	1896093.3336
ST	409+45.51	475082.2794	1896219.6859
TS	431+47.31	473390.9377	1897629.3930
SC	432+27.31	473329.4039	1897680.5163
CS	441+03.80	472625.7952	1898202.5238
ST	441+83.80	472559.0252	1898246.5891
TS	477+63.93	469567.8497	1900213.8739
SC	478+83.93	469467.8516	1900280.2078
CS	483+30.30	469109.2730	1900545.8010
ST	484+50.30	469016.6721	1900622.1220
TS	508+44.05	467175.4749	1902151.8368
SC	509+64.05	467082.9169	1902228.2102
CS	514+19.61	466718.8967	1902501.9236
ST	515+39.61	466619.8278	1902569.6379
TS	576+25.14	461584.1938	1905986.6696
SC	577+85.14	461451.1965	1906075.6122
CS	584+42.98	460872.2617	1906386.4007
ST	586+02.98	460724.6405	1906448.1019
TS	608+47.25	458648.1695	1907299.5833
SC	610+87.25	458429.0315	1907397.2402
CS	618+79.67	457872.4919	1907944.8144
ST	621+19.67	457771.2892	1908162.3376
TS	643+34.49	456897.8148	1910197.6438
SC	645+74.49	456808.9101	1910420.5009
CS	648+48.62	456743.9567	1910686.4484
ST	650+88.62	456720.1216	1910925.1977
TS	673+20.06	456555.8164	1913150.5826
SC	674+80.06	456542.7937	1913310.0479
CS	682+09.49	456395.6240	1914023.0750
ST	683+69.49	456344.4446	1914174.6646
TS	692+21.94	456065.4841	1914980.1776
SC	694+61.94	455982.4388	1915205.3110
CS	701+35.92	455625.0509	1915772.9757
ST	703+75.92	455457.9399	1915945.1834
TS	736+80.10	453109.9304	1918269.9208
SC	739+20.10	452944.1543	1918443.3660
CS	742+76.18	452748.0668	1918739.5281
SC	745+16.18	452653.1193	1918959.8685
PT	749+05.02	452502.9117	1919318.4952
TS	760+53.57	452040.8759	1920370.0196
SC	761+73.57	451992.9650	1920480.0397
CS	768+86.38	451751.7285	1921150.3478
ST	770+06.38	451718.5423	1921265.6671
PC	811+11.21	450596.3288	1925214.1230
PT	822+67.55	450338.6550	1926340.8479
POT	824+25.70	450311.4722	1926496.6426

Y11

TYPE	STATION	NORTH	EAST
POT	10+00.00	478127.9766	1895218.2197
PC	11+57.49	478137.0112	1895375.4489
PT	15+72.92	478038.3027	1895772.5465

Y11A

TYPE	STATION	NORTH	EAST
POT	10+00.00	478092.5934	1894954.4793
PC	10+46.92	478097.3996	1895001.1538
PT	11+44.05	478109.8393	1895097.4696
POT	12+66.07	478128.5900	1895218.0435

Y11B

TYPE	STATION	NORTH	EAST
POT	10+00.00	475768.1016	1895761.4444
PC	10+47.54	475789.0192	1895804.1309
PT	11+32.35	475838.4241	1895872.5691
POT	13+61.71	476002.1410	1896033.2059

Y11D

TYPE	STATION	NORTH	EAST
POT	10+00.00	475303.0739	1895370.8895
PC	10+48.01	475341.1865	1895400.0827
PT	12+53.05	475474.2312	1895554.2126
POT	15+72.90	475629.5519	1895833.8131

Y11E

TYPE	STATION	NORTH	EAST
POT	10+00.00	473856.7967	1897241.1067
PC	12+29.71	474026.5587	1897395.8510
PT	13+12.14	474080.9139	1897457.6091

Y11C

TYPE	STATION	NORTH	EAST
POT	10+00.00	473692.0907	1897076.8305
PC	10+73.57	473745.8404	1897127.0617
PT	11+81.47	473821.9589	1897203.5070
POT	12+32.73	473856.7967	1897241.1067

Y12

TYPE	STATION	NORTH	EAST
POT	10+00.00	473119.5608	1897848.2126
PC	10+98.42	473179.7729	1897926.0605
PT	14+25.81	473461.0234	1898073.0808
POT	18+02.35	473837.0825	1898092.2365

Y12A

TYPE	STATION	NORTH	EAST
POT	9+97.87	472443.3154	1898322.6910
PC	10+46.85	472427.7606	1898276.2522
PT	11+24.47	472422.8161	1898199.6497
PC	12+15.50	472440.3904	1898110.3385
PT	13+15.98	472445.4697	1898010.3267
PC	14+08.56	472537.9868	1898013.7563
PT	15+34.62	472659.8351	1897987.1411
PC	16+57.84	472769.8579	1897931.6463
PT	17+40.88	472847.4924	1897941.4785
POT	18+31.41	472915.6041	1898001.1098

Y13

TYPE	STATION	NORTH	EAST
POT	10+00.00	472069.3639	1898568.6374
PC	10+77.26	472093.6652	1898641.9769
PRC	13+09.08	472109.2491	1898870.8165
PCC	18+79.68	472126.5372	1899436.7940
PT	20+23.08	472166.4078	1899574.5045

Y14

TYPE	STATION	NORTH	EAST
POT	10+00.00	472013.2224	1897952.1460
PC	14+77.09	472028.1489	1898429.0058
PT	15+70.45	472048.4715	1898520.2019
POT	16+23.19	472069.3639	1898568.6374

DR6

TYPE	STATION	NORTH	EAST
POT	10+00.00	471706.0499	1898440.0848
POT	13+07.05	471874.7720	1898696.6198

Y15

TYPE	STATION	NORTH	EAST
POT	10+00.00	470022.9058	1899267.6957
PC	13+63.69	470319.5514	1899478.1046
PT	15+05.09	470417.1941	1899579.2431
POT	15+68.60	470452.0953	1899632.3089

DR8

TYPE	STATION	NORTH	EAST
POT	10+00.00	467582.3913	1901625.9449
PC	11+00.00	467505.4657	1901689.8390
PT	11+47.13	467501.5589	1901732.0880
POT	12+61.60	467574.7137	1901820.1387

DR10

TYPE	STATION	NORTH	EAST
POT	10+00.00	465899.5010	1902689.7013
PC	10+96.29	465953.5657	1902769.3757
PRC	11+59.35	466006.3377	1902799.8808
PT	12+22.42	466059.1097	1902830.3860
POT	13+21.50	466114.7437	1902912.3730

Y16

TYPE	STATION	NORTH	EAST
POT	10+00.00	464402.9007	1903744.6096
PC	12+78.64	464633.7335	1903588.5470
PRC	14+35.42	464756.0527	1903490.7432
PT	18+58.18	465141.0776	1903485.8221
POT	19+32.62	465196.5978	1903535.3995

Y17

TYPE	STATION	NORTH	EAST
POT	10+00.00	465183.0055	1903544.6229
PC	12+36.09	465309.3330	1903744.0692
PT	13+98.98	465396.0057	1903881.9935
POT	17+40.18	465576.5155	1904171.5287

Y18

TYPE	STATION	NORTH	EAST
POT	10+00.00	461167.6440	1905581.5727
POT	15+76.81	461393.7179	1906112.2371

Y19

TYPE	STATION	NORTH	EAST
POT	10+00.00	458352.1212	1906881.6485
PC	13+47.97	458333.0348	1907229.0954
PT	14+89.16	458364.4555	1907364.8223
POT	15+48.35	458393.3453	1907416.4871

Y20

TYPE	STATION	NORTH	EAST
POT	10+00.00	457196.8102	1908016.4196
POT	15+88.68	457710.5793	1908303.7993

Y20A

TYPE	STATION	NORTH	EAST
POT	10+00.00	456573.0285	1912917.4583
PC	10+53.62	456626.5005	1912921.4724
PT	13+31.35	456902.9688	1912947.7120

Y21

TYPE	STATION	NORTH	EAST
POT	10+00.00	454962.3295	1916435.8816
PC	14+26.17	455292.3199	1916705.5688
PT	16+14.24	455429.0547	1916834.4596

DR7

TYPE	STATION	NORTH	EAST
POT	10+00.00	453999.8950	1917062.7628
PC	11+07.82	454099.8842	1917103.0941
PT	11+48.51	454133.5389	1917125.4764
POT	12+41.59	454199.0263	1917191.6194

Y22

TYPE	STATION	NORTH	EAST
PC	10+00.00	452297.4376	1919184.6850
PT	12+10.72	452447.8693	1919326.4254
POT	12+57.92	452491.0499	1919345.4908

Y23

TYPE	STATION	NORTH	EAST
POT	10+00.00	451240.5540	1922947.4466
POT	16+82.14	451914.9894	1923049.6527

Y24

TYPE	STATION	NORTH	EAST
POT	10+00.00	450714.0830	1923210.8355
PC	11+97.41	450780.5622	1923396.7109
PCC	13+38.08	450840.3643	1923523.7954
PT	15+27.50	450986.9344	1923636.5583
POT	15+83.06	451040.3803	1923651.7484

Y25

TYPE	STATION	NORTH	EAST
POT	10+00.00	450049.9652	1924945.7269
POT	15+98.93	450625.7655	1925110.5515

RAB_L

TYPE	STATION	NORTH	EAST
PC	10+00.00	450324.3404	1926548.2972
PCC	12+01.06	450259.1994	1926438.1126
PT	14+02.12	450324.3404	1926548.2972

Y26

TYPE	STATION	NORTH	EAST
POT	10+00.00	450294.7903	1926512.9755
PC	11+26.51	450419.8483	1926493.8699
PT	25+03.33	451376.6357	1927259.4281
POT	26+22.84	451384.9404	1927378.6438

Y27

TYPE	STATION	NORTH	EAST
PC	9+50.00	449879.4060	1926350.2940
PT	10+43.46	449969.1113	1926376.5323
POT	13+85.75	450297.2399	1926473.9675

L2B

TYPE	STATION	NORTH	EAST
POT	824+25.70	450272.5034	1926487.8383
PC	835+22.44	449975.6742	1927543.6448
PCC	837+00.90	449920.0491	1927713.1615
PT	839+32.37	449820.0367	1927921.5757
POT	841+37.81	449715.3366	1928098.3352

Y26A

TYPE	STATION	NORTH	EAST
POT	9+99.38	451120.2961	1926714.2649
PC	10+96.78	451178.3377	1926636.0569
PT	14+19.38	451455.6785	1926494.6608
POT	15+50.22	451586.5079	1926493.2718

SR1

TYPE	STATION	NORTH	EAST
POT	10+00.00	451197.9602	1925757.1773
PC	14+93.78	451271.4839	1926245.4488
PT	15+06.29	451273.2371	1926257.8436
PC	16+54.14	451292.6337	1926404.4122
PT	17+25.76	451305.6431	1926474.8116
POT	17+77.03	451317.5251	1926524.6830

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 INFORMATINO REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

6/2/99

17-AUG-2021\\54
G:\projects\2021\2021014.20\SUR\rw_sheets\r5709ls_rw02d-2.dgn
mpulliam at NCDOT-TRANSDV

6/2/99

REVISIONS

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02E-1

Location and Surveys

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333
formerly CALYX Engineers & Consultants

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-3281 LAND SURVEYOR C. ANDREW HEATH

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, C. ANDREW HEATH, JR., 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 day . 8/18/2021

DocuSigned by:
C. Andrew Heath Jr.
2CC014B3929747F...

---------- L-3281
Professional Land Surveyor PLS # Seal

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	11+42.00	-129.76	500808.8002	1871590.9352
L	11+86.46	75.00	500615.3765	1871671.5098
L	12+50.00	75.00	500626.8079	1871734.0123
L	12+97.00	75.00	500635.2638	1871780.2454
L	13+10.00	85.58	500627.1939	1871794.9369
L	13+40.00	110.00	500608.5711	1871828.8406
L	14+40.00	135.00	500601.9701	1871931.7067
L	15+50.00	-130.00	500882.4363	1871992.2353
L	16+45.00	75.00	500697.8730	1872122.5670
L	16+50.00	75.00	500698.7725	1872127.4854
L	16+98.39	-83.46	500863.3502	1872146.5726
L	17+10.00	75.00	500704.5672	1872186.5064
L	20+60.00	-83.80	500928.7471	1872502.2250
L	20+77.75	75.00	500775.7299	1872548.2572
L	21+78.00	83.00	500785.8963	1872648.3092
L	22+23.88	115.00	500762.6735	1872699.2005
L	22+90.00	115.00	500774.5685	1872764.2388
L	23+29.19	-122.01	501014.7623	1872760.1521
L	24+00.00	90.00	500818.9508	1872867.9462
L	24+47.96	-84.17	500998.9081	1872883.7872
L	24+60.00	75.00	500844.5008	1872924.2685
L	26+50.00	-84.36	501035.4466	1873082.4970
L	26+51.48	105.47	500848.9759	1873118.1039
L	26+85.90	107.97	500852.7064	1873152.4162
L	27+10.00	-84.42	501046.2974	1873141.5077
L	27+90.00	-84.50	501060.7651	1873220.1886
L	28+50.00	-84.55	501071.6122	1873279.2000
L	29+10.00	-84.52	501082.3819	1873338.2255
L	29+70.00	-84.41	501093.0685	1873397.2663
L	30+73.27	-84.21	501111.4522	1873498.8917
L	31+84.38	-84.00	501131.2301	1873608.2239
L	32+15.00	100.00	500955.7418	1873671.4468
L	32+19.00	131.25	500925.7214	1873681.0037
L	39+01.39	-82.61	501258.8633	1874313.7811
L	39+28.00	100.00	501084.0187	1874372.8126
L	40+36.65	85.00	501118.3206	1874476.9871
L	40+50.00	-82.33	501285.3402	1874460.1456
L	42+16.74	-84.22	501315.3651	1874626.1235
L	43+22.99	-93.21	501340.2175	1874731.1516
L	43+87.00	82.00	501175.4038	1874818.5563
L	44+80.00	-97.13	501364.8297	1874888.3616
L	44+94.00	95.00	501175.7094	1874925.0398
L	45+40.00	-99.55	501374.2438	1874948.4940
L	45+50.00	-100.00	501375.8135	1874958.5202
L	45+50.00	-85.11	501361.0112	1874960.1564
L	47+50.00	95.00	501200.9587	1875176.3932
L	47+65.00	-103.65	501400.1672	1875175.2105
L	48+00.00	-83.57	501382.9117	1875211.9208
L	48+29.00	-83.54	501385.1424	1875240.8349
L	48+80.20	80.00	501226.0761	1875304.5943
L	48+89.00	-83.49	501389.7575	1875300.6572
L	51+10.00	90.26	501233.7111	1875534.4970
L	51+47.00	-83.28	501409.6027	1875557.8929
L	51+70.00	92.94	501235.7046	1875594.5237
L	51+93.70	94.00	501236.4920	1875618.2325
L	52+49.00	129.00	501205.8974	1875676.0880
L	52+92.00	-83.16	501420.7559	1875702.4633
L	53+70.15	98.00	501246.2226	1875794.4612
L	55+01.00	84.86	501269.5005	1875923.8932
L	55+69.73	-82.93	501442.1184	1875979.3669
L	56+48.00	70.00	501295.7397	1876069.2933
L	56+70.81	-82.84	501449.8939	1876080.1541
L	57+15.81	-82.81	501453.3553	1876125.0208
L	57+50.00	70.00	501303.6699	1876170.9845
L	58+73.00	80.00	501303.2630	1876294.3897
L	61+65.00	-100.18	501505.5986	1876571.4976
L	62+25.00	-100.12	501510.2088	1876631.3202
L	62+60.00	95.00	501318.3963	1876681.3845
L	62+72.00	-100.08	501513.8201	1876678.1813
L	63+20.00	95.00	501323.0611	1876741.2029
L	63+31.96	-100.03	501518.4275	1876737.9681
L	63+61.00	-100.00	501520.6585	1876766.9182
L	63+70.00	-99.43	501520.7939	1876775.9350
L	63+75.00	95.00	501327.3372	1876796.0364
L	63+82.00	95.00	501327.8814	1876803.0152
L	64+29.97	-95.66	501521.6960	1876836.0137
L	64+42.00	98.76	501328.7990	1876863.1258
L	65+20.00	-90.00	501523.0504	1876926.2144

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	67+23.00	-150.00	501598.6514	1877123.9352
L	67+93.00	-121.00	501575.1814	1877195.9779
L	68+97.83	-121.00	501583.3316	1877300.4899
L	70+13.00	-238.03	501708.9567	1877406.2137
L	71+94.20	198.05	501288.2888	1877620.7701
L	74+18.00	-252.00	501733.3516	1877860.8989
L	79+05.24	-112.89	501465.1734	1878330.6530
L	80+66.95	-125.25	501431.2571	1878489.2533
L	81+48.81	-132.25	501414.7993	1878569.7496
L	81+60.95	167.10	501124.2540	1878496.6607
L	82+07.71	-134.59	501400.3713	1878626.8983
L	83+07.65	-138.51	501375.8460	1878723.8616
L	84+59.00	155.88	501050.6587	1878785.7002
L	84+80.00	155.10	501045.4629	1878806.0622
L	85+12.41	-146.34	501325.4057	1878922.4635
L	85+40.00	152.87	501030.6178	1878864.2394
L	86+17.34	-150.29	501299.4909	1879024.2193
L	87+22.41	-154.20	501273.4960	1879126.1050
L	88+27.38	-158.14	501247.5710	1879227.8980
L	89+32.31	-162.14	501221.7094	1879329.6644
L	90+37.23	-166.20	501195.9015	1879431.4447
L	90+88.00	132.52	500895.0325	1879395.5901
L	91+48.00	130.29	500880.1873	1879453.7674
L	92+91.00	124.98	500844.8061	1879592.4242
L	93+41.00	123.12	500832.4351	1879640.9056
L	93+47.00	122.90	500830.9507	1879646.7229
L	93+94.00	121.15	500819.3220	1879692.2951
L	93+97.00	121.04	500818.5797	1879695.2040
L	94+26.66	-112.10	501033.7936	1879789.6446
L	94+29.19	-181.17	501099.3176	1879811.6173
L	94+57.00	118.81	500803.7346	1879753.3812
L	95+35.00	-112.00	501003.0295	1879893.5207
L	95+47.00	115.47	500781.4669	1879840.6470
L	95+95.00	-112.00	500986.0470	1879951.0671
L	96+07.00	113.24	500766.6217	1879898.8242
L	97+00.00	-100.00	500944.8183	1880048.3769
L	99+45.00	100.69	500682.9941	1880226.5558
L	99+95.00	98.83	500670.6232	1880275.0369
L	100+55.00	96.60	500655.7781	1880333.2141
L	101+10.00	-100.00	500828.7710	1880441.6110
L	101+70.00	-100.00	500811.7884	1880499.1574
L	102+05.00	-100.00	500801.8820	1880532.7262
L	102+13.00	91.10	500616.3368	1880486.3111
L	102+65.00	-100.00	500784.8994	1880590.2726
L	102+71.00	89.35	500601.5896	1880542.4319
L	102+73.00	89.30	500601.0784	1880544.3663
L	102+94.00	88.71	500595.7004	1880564.6746
L	102+96.00	88.65	500595.1871	1880566.6084
L	103+54.00	87.13	500580.2269	1880622.6663
L	103+70.00	-100.00	500755.1800	1880690.9789
L	103+94.00	86.18	500569.8227	1880661.3014
L	104+30.00	-100.00	500738.1975	1880748.5254
L	104+54.00	84.88	500554.0870	1880719.2158
L	104+82.00	-100.00	500723.4793	1880798.3990
L	104+95.00	84.03	500543.2996	1880758.7804
L	105+14.00	102.64	500520.0652	1880771.7338
L	105+42.00	-100.00	500706.4967	1880855.9454
L	105+46.00	134.00	500480.9334	1880793.5500
L	107+48.00	-100.00	500648.1901	1881053.5215
L	107+80.00	78.10	500468.3141	1881033.8027
L	108+08.00	-100.00	500631.2075	1881111.0680
L	108+40.00	76.85	500452.5276	1881091.7021
L	108+47.00	-100.00	500620.1689	1881148.4732
L	109+07.00	-100.00	500603.1864	1881206.0196
L	109+45.00	-100.00	500592.4308	1881242.4657
L	109+65.37	-100.00	500586.6646	1881262.0048
L	109+84.00	75.24	500413.5637	1881228.8846
L	110+05.00	-100.00	500573.5015	1881303.5575
L	110+44.00	74.72	500395.7731	1881281.4470
L	110+57.00	90.00	500377.2055	1881287.0061
L	110+57.00	74.65	500391.4692	1881292.6791
L	111+17.00	90.00	500355.5152	1881337.1040
L	111+68.00	-100.00	500582.4246	1881467.9490
L	112+28.00	-100.00	500469.6576	1881525.2320
L	112+88.00	-100.00	500433.5160	1881580.4450
L	114+02.00	-100.00	500356.0217	1881678.9477
L	114+62.00	-100.00	500310.8671	1881727.0700
L	115+50.00	-100.00	500239.6159	1881792.5487

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	115+85.09	90.00	500092.5335	1881667.2515
L	116+10.00	-97.38	500188.4107	1881830.1550
L	116+39.00	90.25	500049.9338	1881700.2823
L	116+50.00	90.30	500041.2386	1881707.0243
L	116+80.00	-90.00	500128.7421	1881867.4921
L	116+99.00	90.52	500002.5170	1881737.0481
L	117+02.00	90.53	500000.1458	1881738.8867
L	117+10.00	-90.00	500105.1181	1881885.9829
L	117+27.00	90.65	499980.3888	1881754.2058
L	117+48.00	90.74	499963.7913	1881767.0751
L	117+55.00	90.78	499958.2616	1881771.3627
L	117+70.00	-90.00	500057.8702	1881922.9645
L	118+15.00	-90.00	500022.4343	1881950.7007
L	118+15.00	91.05	499910.8448	1881808.1285
L	118+65.00	91.28	499871.3252	1881838.7710
L	118+75.00	-90.00	499975.1864	1881987.6822
L	119+25.00	91.55	499823.9085	1881875.5368
L	119+32.00	91.58	499818.3790	1881879.8242
L	119+90.00	-90.00	499884.6280	1882058.5636
L	119+92.00	91.86	499770.9623	1881916.5900
L	120+50.00	-90.00	499837.3801	1882095.5452
L	120+90.00	-90.00	499805.8815	1882120.1995
L	121+05.00	-90.00	499794.0690	1882129.4486
L	123+05.00	-140.00	499667.3940	1882292.0938
L	123+50.00	-122.86	499621.3924	1882306.3268
L	123+75.00	93.61	499468.2060	1882151.2779
L	124+10.00	-100.00	499560.0563	1882325.3092
L	124+35.00	93.88	499420.8693	1882188.0437
L	125+00.00	-100.00	499489.1845	1882380.7816
L	125+60.00	-100.00	499441.9366	1882417.7631
L	125+66.00	94.48	499317.3427	1882268.3157
L	126+26.00	94.75	499269.9259	1882305.0816
L	127+02.00	-100.00	499330.1165	1882505.2862
L	127+62.00	-100.00	499282.8687	1882542.2678
L	129+52.00	96.24	499012.2948	1882504.8425
L	130+12.00	96.52	498964.8780	1882541.6083
L	130+29.00	-100.00	499072.6155	1882706.8357
L	130+45.00	96.67	498938.7988	1882561.8295
L	130+89.00	-100.00	499025.3676	1882743.8173
L	131+05.00	96.94	498891.3820	1882598.5953
L	131+79.00	-100.00	498954.4958	1882799.2897
L	131+90.00	97.33	498824.2083	1882650.6802
L	132+39.00	-100.00	498907.2479	1882836.2712
L	132+50.00	97.60	498776.7915	1882687.4460
L	133+85.00	-100.00	498792.2780	1882926.2597
L	134+45.00	-100.00	498745.0301	1882963.2413
L	135+95.00	99.18	498504.1451	1882898.8495
L	136+55.00	99.45	498456.7283	1882935.6153
L	137+75.00	100.00	498361.8948	1883009.1469
L	138+50.00	135.00	498281.2619	1883027.8163
L	140+35.00	95.00	498160.2352	1883173.3414
L	140+85.00	95.00	498120.8631	1883204.1552
L	140+90.00	-100.00	498237.1148	1883360.7969
L	141+02.00	95.00	498107.4756	1883214.6338
L	141+62.00	95.00	498060.2277	1883251.6154
L	143+10.00	-90.00	498057.7089	1883488.5213
L	144+75.00	-90.00	497927.7772	1883590.2206
L	146+60.00	95.00	497668.0702	1883558.5624
L	147+20.00	95.00	497620.8223	1883595.5440

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 APRIL 2021 TO SEPTEMBER 2021 .

$$$$SYNFEN$$
$$$$DN$$$$$$$$$$
$$$$FENNEL$$$$$$

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02E-2

Location and Surveys

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333
formerly CALYX Engineers & Consultants

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-3281 LAND SURVEYOR C. ANDREW HEATH, JR.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, C. ANDREW HEATH, JR., 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 day . 9/7/2021

DocuSigned by:
C. Andrew Heath Jr.
2C0148392974 7F...

---------- L-3281
Professional Land Surveyor PLS # Seal

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	147+45.00	-101.00	497721.9421	1883765.2961
L	150+04.00	-104.63	497520.2284	1883927.7946
L	150+64.00	-105.48	497473.4993	1883965.4391
L	150+80.00	95.00	497337.3349	1883817.4334
L	151+87.00	-107.20	497377.7048	1884042.6102
L	152+47.00	-108.80	497331.4429	1884080.8516
L	152+58.00	103.00	497192.2353	1883920.8457
L	153+00.00	-110.21	497290.5783	1884114.6314
L	153+29.00	102.17	497136.8341	1883965.2573
L	153+60.00	-111.81	497244.3164	1884152.8728
L	153+89.00	101.48	497090.0162	1884002.7883
L	153+99.00	101.36	497082.2133	1884009.0434
L	154+59.00	100.66	497035.3954	1884046.5744
L	154+75.00	100.48	497022.9106	1884056.5827
L	154+91.00	-115.31	497143.3114	1884236.3663
L	155+17.00	-116.00	497123.2646	1884252.9376
L	155+25.00	99.90	496983.8957	1884087.8585
L	155+48.00	-114.65	497098.0224	1884270.9834
L	155+51.00	-114.52	497095.5796	1884272.7297
L	155+85.00	99.20	496937.0778	1884125.3894
L	156+29.00	98.69	496902.7447	1884152.9121
L	156+60.00	-109.78	497006.8250	1884336.1810
L	156+89.00	97.99	496855.9269	1884190.4431
L	157+20.00	-107.17	496957.9692	1884371.1083
L	157+72.66	97.02	496790.6458	1884242.7748
L	158+22.66	96.43	496751.6307	1884274.0508
L	158+60.00	96.00	496722.4959	1884297.4063
L	158+62.00	-101.00	496842.3438	1884453.7696
L	158+83.00	95.73	496704.5495	1884311.7938
L	159+48.00	94.97	496653.8315	1884352.4541
L	160+08.00	94.27	496607.0149	1884389.9867
L	160+48.00	93.81	496575.8038	1884415.0084
L	160+97.66	93.23	496537.0527	1884446.0749
L	161+57.66	92.53	496490.2361	1884483.6075
L	161+93.00	-110.00	496587.2401	1884664.8718
L	162+03.00	80.00	496462.2572	1884521.4171
L	162+03.00	92.00	496454.8609	1884511.9675
L	162+37.00	79.29	496435.9193	1884542.9303
L	162+97.00	78.04	496389.4407	1884580.8947
L	163+20.00	-105.77	496484.6228	1884739.8159
L	163+55.00	76.84	496344.5114	1884617.5937
L	163+80.00	-103.77	496436.1422	1884775.2225
L	163+96.00	104.00	496295.4838	1884621.4753
L	163+96.00	75.99	496312.7511	1884643.5360
L	164+15.00	75.99	496297.7853	1884655.2418
L	164+93.00	-100.00	496344.8371	1884841.9050
L	164+93.96	108.78	496215.3972	1884678.0892
L	166+27.62	116.32	496105.4934	1884754.5329
L	167+25.00	97.00	496040.7224	1884829.7698
L	167+25.00	77.58	496052.6944	1884845.0653
L	168+25.00	157.09	495924.9374	1884844.0852
L	168+94.00	-97.00	496027.2146	1885086.7028
L	169+50.00	129.89	495843.2680	1884942.5474
L	170+10.00	116.84	495804.0666	1884989.8093
L	170+99.00	97.47	495745.9179	1885059.9144
L	171+10.00	97.22	495737.4143	1885066.8969
L	171+70.00	95.82	495691.0308	1885104.9828
L	172+04.88	-125.00	495799.6655	1885300.3656
L	172+04.88	95.00	495664.0668	1885127.1231
L	172+75.00	-113.72	495737.1395	1885334.8766
L	173+24.88	95.00	495570.0764	1885200.1887
L	173+35.00	-104.35	495683.1965	1885364.6502
L	173+43.00	95.00	495555.9076	1885211.0182
L	173+83.00	95.00	495524.5151	1885234.7720
L	173+99.00	-95.00	495625.6488	1885396.4133
L	174+21.00	95.00	495494.5462	1885257.1438
L	174+81.00	95.00	495446.9402	1885292.0800
L	176+52.00	-144.00	495444.2445	1885586.3255
L	176+58.00	94.98	495304.5091	1885392.3598
L	177+00.00	-105.00	495381.8061	1885581.5275
L	177+20.00	97.20	495252.6939	1885424.6386
L	177+80.00	98.72	495202.5916	1885455.8710
L	178+00.00	99.10	495185.8960	1885466.2786
L	178+00.00	-105.00	495296.8791	1885637.5652
L	178+60.00	99.84	495135.8193	1885497.4951
L	179+00.00	100.00	495102.4396	1885518.3031
L	179+50.00	113.27	495053.6930	1885532.8576
L	180+13.00	129.33	494992.5781	1885551.1050
L	182+50.00	95.00	494807.7711	1885696.3843
L	183+39.00	95.00	494730.5911	1885737.8002
L	183+99.00	95.00	494678.2168	1885765.0729

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	184+75.00	-105.00	494700.7127	1885977.8589
L	185+00.00	75.74	494597.9681	1885827.0710
L	185+00.00	95.00	494589.4460	1885809.7947
L	185+35.00	-105.00	494645.9393	1886004.8208
L	188+70.00	83.62	494262.5123	1885971.2149
L	188+70.00	95.00	494258.1163	1885960.7187
L	189+30.00	95.00	494203.5365	1885983.2547
L	194+42.59	95.00	493728.7401	1886153.2807
L	194+42.59	-105.00	493788.0656	1886344.2794
L	195+60.00	99.69	493615.9512	1886182.5976
L	196+20.00	101.90	493557.8413	1886197.7019
L	197+04.00	105.00	493476.4875	1886218.8479
L	197+22.00	-114.00	493522.1119	1886433.7977
L	198+45.74	-115.00	493403.8669	1886470.2768
L	198+45.74	105.00	493340.7138	1886259.5360
L	200+05.00	100.00	493188.0340	1886311.6092
L	200+05.74	-115.00	493253.0675	1886516.5389
L	203+00.00	-115.00	492984.2196	1886613.7525
L	203+60.00	-115.00	492930.3043	1886635.9453
L	203+93.00	100.00	492815.8874	1886450.9642
L	204+40.00	-115.00	492858.9374	1886666.7674
L	204+53.00	100.00	492759.5907	1886475.6561
L	205+90.00	100.00	492632.4534	1886535.1279
L	205+99.00	-89.00	492707.4978	1886708.8277
L	207+17.00	177.00	492480.5081	1886525.9524
L	207+81.98	-100.00	492553.9695	1886800.9618
L	209+41.98	-100.00	492416.4112	1886878.7541
L	210+36.00	100.00	492235.2915	1886752.1231
L	210+80.00	100.00	492197.1336	1886774.0314
L	211+40.00	100.00	492145.1001	1886803.9064
L	211+46.00	-100.00	492239.4799	1886980.3389
L	213+20.00	-100.00	492088.5827	1887066.9763
L	213+80.00	-100.00	492036.5492	1887096.8512
L	215+71.00	-100.00	491870.9115	1887191.9518
L	216+31.00	-100.00	491818.8780	1887221.8268
L	216+44.71	-100.00	491806.9891	1887228.6527
L	216+44.71	100.00	491707.4060	1887055.2077
L	217+08.00	-100.00	491752.2614	1887260.1322
L	217+68.00	-100.00	491700.4276	1887290.0534
L	221+70.00	100.00	491252.4539	1887320.4047
L	221+95.00	-100.00	491332.8487	1887505.2335
L	222+30.00	100.00	491200.7111	1887351.0756
L	222+55.00	-100.00	491281.3830	1887535.7836
L	223+65.00	100.00	491084.4584	1887420.3686
L	224+25.00	100.00	491032.8657	1887451.2914
L	224+49.38	100.00	491011.9155	1887463.8783
L	224+49.38	-100.00	491114.9675	1887635.2851
L	226+45.31	100.00	490843.9963	1887564.8334
L	226+85.31	100.00	490809.7149	1887585.4438
L	226+95.00	100.00	490801.4105	1887590.4366
L	227+55.00	100.00	490749.9884	1887621.3522
L	228+72.00	100.00	490649.7151	1887681.6378
L	229+32.00	100.00	490598.2930	1887712.5534
L	229+35.00	-100.00	490698.7743	1887885.5057
L	232+10.00	-144.00	490485.7613	1888064.9117
L	232+65.00	-100.00	490415.9530	1888055.5415
L	233+00.00	-100.00	490385.9568	1888073.5756
L	234+80.00	100.00	490128.6388	1887994.9155
L	235+40.00	100.00	490077.2167	1888025.8311
L	236+25.00	100.00	490004.3688	1888069.6282
L	236+30.00	-100.00	490103.1397	1888243.6089
L	236+60.00	109.75	489969.3489	1888079.3062
L	236+90.00	-100.00	490051.7177	1888274.5244
L	237+20.00	100.00	489922.9506	1888118.5779
L	237+65.00	139.00	489864.2889	1888108.3403
L	239+51.00	100.00	489724.9778	1888237.6017
L	240+00.00	100.00	489682.9811	1888262.8507
L	240+60.00	100.00	489631.5590	1888293.7662
L	241+54.00	100.00	489550.9978	1888342.2007
L	242+14.21	-100.00	489602.4478	1888544.6313
L	242+14.21	100.00	489499.3923	1888373.2266
L	243+05.15	117.97	489413.3089	1888403.5626
L	243+30.00	-119.62	489510.7396	1888621.6790
L	243+68.00	128.78	489355.9364	1888423.7807
L	243+90.00	-131.90	489461.2528	1888663.2548
L	244+33.26	137.73	489298.5639	1888443.9989
L	244+54.21	140.00	489280.6518	1888450.3112
L	244+54.21	-148.00	489406.2041	1888709.5034
L	245+45.00	147.00	489203.7779	1888476.7093
L	246+69.42	180.92	489089.6605	1888480.6826
L	247+38.75	178.58	489032.3783	1888498.5364

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	248+73.08	165.00	488920.0031	1888533.5619
L	249+92.32	-165.00	488835.0919	1888873.3988
L	251+18.00	177.28	488690.1213	1888538.3832
L	253+12.00	179.06	488496.2441	1888545.5122
L	253+70.00	-183.06	488454.9299	1888909.9124
L	255+50.00	-157.80	488276.1139	1888893.2495
L	256+97.04	155.00	488099.3190	1888595.6910
L	256+97.04	-145.00	488140.0374	1888892.9148
L	258+79.00	-866.97	488176.0493	1889621.0594
L	259+14.00	-686.93	488111.2800	1889452.4643
L	259+56.55	-145.00	487915.4599	1888946.3776
L	259+67.64	155.00	487806.1920	1888666.7655
L	260+21.42	150.00	487751.8497	1888692.5505
L	260+85.00	155.00	487684.7289	1888715.8054
L	262+10.00	-100.00	487687.7576	1889000.6531
L	262+20.00	140.00	487558.5641	1888798.1407
L	264+65.00	100.00	487364.8961	1888985.8184
L	267+92.02	-100.00	487293.6660	1889360.9533
L	267+92.02	100.00	487129.8922	1889246.1572
L	270+32.02	-100.00	487172.8586	1889557.7220
L	270+32.02	100.00	486999.4073	1889458.1497
L	272+20.00	100.00	486905.8169	1889621.1802
L	272+80.00	100.00	486875.9452	1889673.2155
L	273+58.80	100.00	486836.7141	1889741.5543
L	273+58.80	-100.00	487010.1654	1889841.1266
L	274+25.00	-100.00	486976.7312	1889899.0587
L	275+98.80	100.00	486715.9061	1889938.3239
L	277+40.60	100.00	486635.0593	1890041.4960
L	278+08.08	100.00	486592.8280	1890087.4375
L	278+78.00	-115.77	486693.6773	1890290.6646
L	279+38.00	-104.09	486637.3804	1890325.1045
L	279+50.00	-102.12	486626.2242	1890331.9303
L	280+10.00	-94.11	486570.8518	1890365.8139
L	280+26.44	100.00	486441.1810	1890220.4406
L	281+27.00	-86.48	486465.3095	1890430.4191
L	281+87.00	-85.40	486412.6247	1890462.6794
L	282+66.44	100.00	486247.6887	1890346.4285
L	283+05.00	-85.36	486311.2812	1890524.7542
L	283+65.00	-85.48	486260.1206	1890556.1008
L	285+90.00	-85.97	486068.2865	1890673.6802
L	286+50.00	-86.10	486017.1315	1890705.0359
L	287+09.99	100.00	485869.0076	1890577.3932
L	287+70.02	100.00	485817.7598	1890608.6502
L	288+60.00	100.00	485740.9421	1890655.5027
L	289+20.00	100.00	485689.7181	1890686.7452
L	290+80.00	-87.05	485650.5207	1890929.7522
L	291+15.00	100.00	485523.2366	1890788.2854
L	291+40.00	-87.19	485599.3657	1890961.1079
L	291+75.00	100.00	485472.0125	1890819.5279
L	292+00.00	-87.32	485548.2107	1890992.4637
L	292+71.17	100.00	485389.9130	1890869.6020
L	292+89.01	-100.00	485478.8196	1891049.6410
L	292+89.01	100.00	485374.6815	1890878.8919
L	292+97.00	-100.00	485472.0648	1891053.7642
L	293+31.17	100.00	485338.4060	1890901.1117
L	293+57.00	-100.00	485421.4085	1891084.8988
L	295+30.00	-100.00	485276.3011	1891176.1973

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 APRIL 2021 TO SEPTEMBER 2021 .

REVISIONS

9/7/2021 - REVISED PER DIVISION L&S COMMENTS

6/2/99

$$$$SYSTIME$$$$
$$$$USERNAME$$$$
$$$$DGN$$$$ $$$$ $$$$ $$$$ $$$$ $$$$

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02E-3

Location and Surveys

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333
formerly CALYX Engineers & Consultants

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-3281 LAND SURVEYOR ANDREW HEATH, JR.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	295+90.00	-100.00	485226.3095	1891208.3882
L	296+11.00	100.00	485099.8034	1891052.0642
L	296+13.00	-100.00	485207.1923	1891220.7996
L	296+70.00	100.00	485049.9863	1891084.6563
L	296+73.00	-100.00	485157.4428	1891253.3635
L	299+15.00	-100.00	484958.5952	1891387.4193
L	299+75.00	-100.00	484909.7501	1891421.3244
L	300+00.00	-100.00	484889.4521	1891435.5294
L	301+70.72	100.00	484634.3395	1891371.8061
L	302+10.00	100.00	484602.7814	1891394.5913
L	302+30.00	-150.00	484732.3008	1891609.3621
L	303+00.00	165.00	484492.6405	1891393.3057
L	303+00.00	-100.00	484645.6357	1891609.6792
L	304+55.00	100.00	484404.1346	1891534.1814
L	305+00.00	100.00	484367.3160	1891559.3421
L	306+65.00	-100.00	484341.4855	1891817.3248
L	307+25.00	-100.00	484290.8417	1891850.4965
L	307+74.00	100.00	484140.9586	1891709.3021
L	308+34.00	100.00	484090.9017	1891741.3914
L	309+45.00	100.00	483997.8421	1891800.0413
L	310+05.00	100.00	483947.2968	1891831.3557
L	310+25.00	-100.00	484034.9752	1892012.2214
L	310+52.43	100.00	483907.2215	1891855.9160
L	310+52.43	-100.00	484011.3632	1892026.6629
L	310+85.00	-100.00	483983.5570	1892043.6224
L	313+08.00	-100.00	483793.1742	1892159.7404
L	313+16.00	-100.00	483786.3443	1892163.9061
L	313+66.00	-100.00	483743.6576	1892189.9415
L	316+35.00	100.00	483409.8613	1892159.2652
L	316+95.00	100.00	483358.6372	1892190.5078
L	317+00.00	-100.00	483458.5103	1892363.8582
L	317+60.00	-100.00	483407.2852	1892395.1014
L	318+75.00	100.00	483204.9650	1892284.2353
L	319+35.00	100.00	483153.7410	1892315.4778
L	320+51.00	100.00	483054.7078	1892375.8800
L	321+01.00	100.00	483012.0210	1892401.9155
L	323+10.00	100.00	482833.5905	1892510.7436
L	323+70.00	100.00	482782.3665	1892541.9861
L	326+61.00	100.00	482533.9297	1892693.5123
L	327+21.00	100.00	482482.7057	1892724.7548
L	328+07.00	100.00	482409.2845	1892769.5358
L	328+67.00	100.00	482358.0604	1892800.7783
L	330+05.00	-100.00	482344.3868	1893043.3830
L	330+65.00	-100.00	482293.1627	1893074.6255
L	332+90.00	100.00	481996.9308	1893021.0380
L	333+50.00	100.00	481945.7067	1893052.2805
L	335+00.00	-100.00	481921.7883	1893301.1337
L	335+82.00	100.00	481747.6403	1893173.0849
L	336+42.00	100.00	481696.4162	1893204.3275
L	336+80.00	-120.00	481778.5302	1893411.9360
L	337+00.00	100.00	481646.8996	1893234.5286
L	338+05.00	140.00	481536.4292	1893255.0536
L	339+00.00	-110.00	481585.5016	1893517.9545
L	339+90.00	100.00	481399.3166	1893385.5341
L	340+00.00	-100.00	481494.9210	1893561.4880
L	340+50.00	100.00	481348.0926	1893416.7766
L	341+02.00	-100.00	481407.8401	1893614.6003
L	341+33.00	100.00	481277.2326	1893459.9954
L	341+62.00	-100.00	481356.6160	1893645.8428
L	341+93.00	100.00	481226.0086	1893491.2379
L	341+99.00	-100.00	481325.0279	1893665.1091
L	342+25.00	100.00	481198.6890	1893507.9006
L	342+59.00	-100.00	481273.8038	1893696.3516
L	342+85.00	100.00	481147.4650	1893539.1431
L	343+67.00	-100.00	481181.6005	1893752.5881
L	344+00.28	100.00	481049.0465	1893599.1704
L	344+00.28	-100.00	481153.1922	1893769.9149
L	344+27.00	-100.00	481130.3147	1893783.8578
L	344+83.00	100.00	480978.5578	1893642.0628
L	344+98.00	-100.00	481069.4905	1893820.8259
L	345+43.00	100.00	480927.3741	1893673.0831
L	345+58.00	-100.00	481018.0386	1893851.9824
L	346+96.00	-100.00	480899.5223	1893923.3492
L	347+30.00	100.00	480767.5542	1893769.2700
L	348+40.00	-105.00	480778.1479	1894001.6795
L	348+55.00	100.00	480660.4727	1893833.1489
L	349+45.00	-105.00	480687.6028	1894055.3873
L	350+05.00	-105.00	480635.7995	1894085.9707
L	351+90.00	-105.00	480475.7848	1894179.7798
L	352+30.00	100.00	480338.0379	1894022.7735
L	352+50.00	-105.00	480423.7952	1894210.0453
L	352+90.00	100.00	480286.2839	1894052.8326
L	354+05.60	-105.00	480288.7556	1894288.1715
L	354+05.60	100.00	480186.4422	1894110.5287
L	355+40.00	-105.00	480172.2933	1894355.2479
L	357+50.00	-155.00	480015.2713	1894503.3878
L	358+40.00	-110.00	479914.8236	1894509.3074

END SECTION 1

BEGIN SECTION 2

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	361+50.00	100.00	479482.0746	1894516.2089
L	361+50.00	-110.00	479586.8834	1894698.1845
L	362+42.58	-110.00	479506.6582	1894744.3902
L	362+42.58	100.00	479401.8527	1894562.4126
L	363+62.58	100.00	479298.5726	1894621.4173
L	363+62.58	-95.00	479394.1109	1894791.4097
L	364+75.80	100.00	479201.0640	1894674.9513
L	371+40.00	-95.00	478680.8590	1895130.5348
L	372+05.00	-105.00	478622.8086	1895163.7710
L	376+60.70	-105.00	478183.0145	1895311.5933
L	378+78.89	-151.83	477979.9910	1895415.2350
L	389+50.00	-113.07	476904.3625	1895562.5642
L	390+45.00	117.60	476777.3836	1895347.8359
L	390+95.00	155.00	476722.4683	1895317.9751
L	392+00.00	-160.00	476665.9535	1895644.9984
L	392+08.00	184.00	476603.7883	1895306.5671
L	392+69.02	-160.00	476600.8461	1895655.9181
L	395+40.00	193.00	476257.8631	1895371.4842
L	396+00.00	-160.00	476295.7463	1895727.5752
L	396+90.00	-109.35	476198.6137	1895704.6040
L	397+00.00	122.09	476117.0858	1895487.7713
L	400+05.00	122.06	475821.2309	1895601.9346
L	400+40.00	160.00	475772.2412	1895582.4225
L	401+10.00	165.00	475703.4320	1895609.4022
L	401+45.00	145.00	475679.3036	1895643.6205
L	404+05.00	175.00	475425.5840	1895750.3077
L	407+45.51	175.00	475129.7363	1895955.2932
L	410+00.00	175.00	474928.3771	1896120.1452
L	411+00.00	245.00	474806.7430	1896130.3990
L	416+55.00	150.00	474441.2359	1896558.7149
L	418+71.00	150.00	474275.3125	1896697.0096
L	419+50.00	150.00	474214.6275	1896747.5896
L	420+35.00	118.41	474169.5617	1896826.2804
L	424+88.59	119.96	473820.1287	1897115.4987
L	425+96.93	-110.92	473084.7365	1897362.2158
L	426+12.83	120.12	473724.5963	1897194.9150
L	432+00.00	-109.29	473420.2404	1897747.2015
L	434+21.74	-111.96	473247.3217	1897890.5207
L	436+93.16	-89.54	473015.2779	1898039.1303
L	445+98.00	116.00	472149.2190	1898377.2760
L	449+15.00	105.00	471890.4163	1898560.6564
L	449+75.00	105.00	471840.2867	1898593.6264
L	450+35.00	105.00	471790.1571	1898626.5964
L	454+75.00	105.00	471422.5434	1898868.3746
L	455+35.00	105.00	471372.4138	1898901.3446
L	459+30.00	105.00	471042.3907	1899118.3996
L	459+90.00	105.00	470992.2611	1899151.3697
L	461+20.00	105.00	470883.6469	1899222.8048
L	461+80.00	105.00	470833.5173	1899255.7748
L	464+35.00	105.00	470620.4666	1899395.8975
L	464+95.00	105.00	470570.3370	1899428.8676
L	466+15.00	105.00	470470.0778	1899494.8076
L	467+85.00	105.00	470328.0440	1899588.2228
L	469+90.00	105.00	470156.7678	1899700.8704
L	470+50.00	105.00	470106.6382	1899733.8405
L	471+60.00	105.00	470014.7340	1899794.2856
L	472+20.00	105.00	469964.6044	1899827.2556
L	473+75.00	105.00	469835.1030	1899912.4282
L	474+35.00	105.00	469784.9734	1899945.3983
L	475+65.00	105.00	469676.3592	1900016.8334
L	476+25.00	105.00	469626.2296	1900049.8034
L	476+70.00	105.00	469588.6325	1900074.5309
L	476+95.00	105.00	469567.7451	1900088.2685
L	477+50.00	160.00	469491.5705	1900072.5389
L	479+65.00	105.00	469340.9849	1900239.9944
L	479+90.00	105.02	469320.0079	1900254.6375
L	480+13.00	105.00	469300.8687	1900268.2311
L	480+71.83	105.16	469252.0690	1900303.2232
L	482+45.00	105.00	469111.2103	1900409.9771
L	483+70.00	70.00	469034.0814	1900516.8359
L	484+20.00	70.01	468995.2857	1900548.8831
L	484+50.30	70.00	468971.9389	1900568.2801
L	484+79.95	70.00	468949.1355	1900587.2258
L	488+95.00	70.00	468629.8920	1900852.4617
L	489+60.00	105.00	468557.5294	1900867.0787
L	490+20.00	105.00	468511.3793	1900905.4215
L	491+70.00	-67.78	468506.4169	1901134.1737
L	493+30.00	105.00	468272.9370	1901103.5256
L	493+90.00	105.00	468226.7868	1901141.8683
L	494+00.74	-94.18	468345.8162	1901301.9334
L	495+74.97	-114.12	468224.5412	1901428.6145
L	496+36.00	105.00	468037.5713	1901299.0736
L	496+96.00	105.00	467991.4212	1901337.4163
L	497+21.14	-129.78	468122.1189	1901534.0717
L	497+85.00	105.00	467922.9651	1901394.2914
L	499+09.41	-134.13	467980.0880	1901657.7232
L	499+10.00	130.00	467810.8429	1901454.9428

I, C. ANDREW HEATH, JR., 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 day . 9/7/2021

DocuSigned by:
C. Andrew Heath Jr.
2CC014B3929F47F...

---------- L-3281
Professional Land Surveyor PLS # Seal

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	500+00.00	-128.06	467906.5285	1901710.4797
L	500+50.87	-123.57	467864.5329	1901740.0025
L	501+68.00	-112.34	467767.2613	1901806.2142
L	502+28.00	-106.58	467717.4341	1901840.1311
L	502+80.00	105.00	467542.2256	1901710.6197
L	502+95.00	105.00	467530.6923	1901720.2019
L	503+55.00	105.00	467484.5389	1901758.5473
L	503+67.16	-93.24	467601.8656	1901918.7974
L	507+60.00	105.00	467173.0255	1902017.3608
L	508+20.00	105.00	467126.8754	1902055.7035
L	508+44.05	105.00	467108.3751	1902071.0741
L	509+64.08	105.00	467016.6186	1902146.7882
L	512+63.00	105.01	466784.2991	1902326.3158
L	513+24.12	104.99	466735.7194	1902361.5810
L	514+19.61	105.00	466659.0631	1902415.6395
L	515+39.61	105.00	466560.8703	1902482.7529
L	521+20.00	105.00	466080.6104	1902808.6430
L	521+80.00	105.00	466030.9618	1902842.3330
L	521+90.00	105.00	466022.6871	1902847.9480
L	522+45.00	150.00	465951.9083	1902841.5941
L	524+30.00	105.00	465824.0928	1902982.7082
L	524+86.00	105.00	465777.7541	1903014.1522
L	526+75.00	105.00	465621.3611	1903120.2759
L	527+32.98	250.00	465491.9695	1903032.8456
L	527+91.98	215.00	465462.7991	1903094.9370
L	528+50.00	110.00	465473.7453	1903214.4011
L	531+80.00	110.00	465200.6781	1903399.6964
L	533+90.00	110.00	465026.9081	1903517.6116
L	538+20.00	110.00	464671.0933	1903759.0569
L	538+80.00	110.00	464621.4448	1903792.7469
L	542+45.00	110.00	464319.4159	1903997.6947
L	542+65.00	110.00	464302.8664	1904008.9247
L	543+14.36	-95.08	464377.1762	1904206.3330
L	543+50.00	170.00	464198.8409	1904007.0037
L	543+70.00	-95.01	464331.0974	1904237.5272
L	545+70.00	137.87	464034.8399	1904157.1247
L	547+95.00	105.00	463867.1115	1904310.6575
L	552+70.00	-94.42	463586.0337	1904742.3840
L	553+30.00	-94.47	463536.4156	1904776.1190
L	556+75.00	-94.78	463251.1114	1904970.0948
L	556+90.00	105.00	463126.5203	1904813.2007
L	557+05.00	-110.00	463234.8309	1904999.5306
L	557+75.00	-115.00	463179.7150	1905042.9731
L	558+10.00	-135.00	463161.9834	1905079.1751
L	560+00.00	165.00	462836.3127	1904937.6174
L	560+05.00	-120.00	462992.2030	1905176.2556
L	560+54.92	-95.06	462936.8935	1905183.6459
L	560+85.00	-95.04	462911.9923	1905200.5255
L	561+05.00	160.00	462752.2352	1905000.7124
L	561+45.00	-94.99	462862.3119	1905234.1687
L	561+55.00	105.00	462741.7439	1905074.2986
L	564+00.00	105.00	462539.0122	1905211.8663
L	564+95.00	150.00	462435.1344	1905227.9724
L	565+15.00	-94.58	462555.9165	1905441.5862
L	565+95.00	-140.00	462515.2221	1905524.0906

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 APRIL 2021 TO SEPTEMBER 2021 .

REVISIONS

9/7/2021 - REVISED PER DIVISION L&S COMMENTS

6/2/99

$$$$SYSTIME$$$$
$$$$USER$$$$
$$$$FILENAME$$$$

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02E-4

Location and Surveys

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333
formerly CALYX Engineers & Consultants

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-3281 LAND SURVEYOR C. ANDREW HEATH, JR.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	566+55.00	150.00	462302.7383	1905317.8126
L	567+00.00	-145.00	462431.1446	1905587.1856
L	567+29.00	102.00	462268.4571	1905399.0825
L	568+40.00	-105.00	462292.8379	1905632.6966
L	570+80.00	-150.00	462119.5111	1905804.6932
L	571+15.00	103.29	461948.3257	1905614.7525
L	571+50.00	-105.00	462036.3202	1905806.7619
L	571+70.00	-93.86	462013.5139	1905808.7712
L	571+70.00	-105.00	462019.7707	1905817.9919
L	571+75.00	103.49	461898.5643	1905648.2763
L	571+85.00	-93.84	462001.0924	1905817.1801
L	572+15.00	103.63	461865.3901	1905670.6256
L	572+45.00	-93.77	461951.4067	1905850.8153
L	572+75.00	103.83	461815.6287	1905704.1494
L	572+90.00	-93.72	461914.1436	1905876.0410
L	573+50.00	-93.66	461864.4578	1905909.6762
L	574+80.00	-93.51	461756.8042	1905982.5535
L	575+40.00	-93.45	461707.1184	1906016.1888
L	575+45.00	104.73	461591.7026	1905855.0067
L	576+05.00	104.93	461541.9413	1905888.5305
L	576+20.00	-93.36	461640.8708	1906061.0358
L	576+25.14	105.00	461525.2362	1905899.7846
L	576+79.78	-93.34	461591.1851	1906094.6711
L	577+80.00	105.00	461398.2087	1905984.8210
L	578+87.18	-97.63	461415.9530	1906213.2962
L	579+15.00	95.00	461292.0520	1906063.2016
L	580+53.69	95.00	461174.9659	1906131.1006
L	580+90.79	95.00	461143.2527	1906148.5602
L	581+42.26	94.90	461099.0274	1906172.3832
L	581+71.00	95.00	461074.1246	1906185.2916
L	582+32.64	95.00	461020.5006	1906212.5610
L	584+42.98	95.00	460834.4459	1906299.2516
L	586+02.98	95.00	460688.5973	1906360.2049
L	589+15.00	95.00	460399.9091	1906478.5849
L	589+75.00	95.00	460344.3952	1906501.3491
L	593+70.00	95.00	459978.9286	1906651.2129
L	594+48.00	99.22	459905.1608	1906676.9054
L	595+08.03	102.45	459848.3906	1906696.6841
L	594+48.00	99.22	459905.1608	1906676.9054
L	595+08.03	102.45	459848.3906	1906696.6841
L	595+55.00	105.00	459803.9667	1906712.1500
L	598+00.00	105.00	459577.2849	1906805.1036
L	598+60.00	105.00	459521.7670	1906827.8693
L	608+40.00	105.00	458615.0438	1907199.6819
L	610+25.00	125.00	458431.7749	1907256.5472
L	612+35.00	110.00	458240.7474	1907381.1432
L	613+36.00	110.00	458152.3075	1907445.4140
L	613+91.65	110.00	458105.7394	1907483.6405
L	616+84.99	110.09	457889.0951	1907715.0081
L	617+41.23	110.11	457853.6541	1907764.5241
L	618+79.67	110.00	457775.7275	1907892.5013
L	621+19.67	110.00	457670.2067	1908118.9518
L	621+75.00	110.00	457648.3858	1908169.7972
L	623+60.00	105.00	457580.0208	1908341.7746
L	629+20.00	105.00	457359.1696	1908856.3859
L	629+80.00	105.00	457335.5065	1908911.5241
L	638+00.00	105.00	457012.1186	1909665.0588
L	638+60.00	105.00	456988.4560	1909720.1957
L	642+95.00	105.00	456816.9011	1910119.9402
L	643+34.50	105.00	456801.3250	1910156.2346
L	643+54.98	104.47	456793.7203	1910175.3206
L	644+85.00	102.54	456744.4471	1910298.9856
L	645+42.19	103.58	456722.2252	1910354.7577
L	645+74.49	105.00	456709.5068	1910386.6780
L	647+00.00	105.00	456671.5193	1910515.1471
L	647+56.19	104.97	456657.9416	1910573.5906
L	648+14.00	105.00	456646.1253	1910634.1661
L	648+45.00	105.00	456640.7392	1910666.8244
L	649+00.00	150.00	456588.1105	1910719.1748
L	650+90.00	105.00	456615.3048	1910918.8459
L	651+39.00	105.00	456611.6968	1910967.7129
L	653+40.00	105.00	456596.8968	1911168.1673
L	654+00.00	105.00	456592.4789	1911228.0044
L	655+90.00	105.00	456578.4889	1911417.4887
L	656+40.00	105.00	456574.8073	1911467.3529
L	657+21.48	105.00	456568.8078	1911548.6104
L	657+81.48	105.00	456564.3900	1911608.4466
L	658+06.48	105.00	456562.5491	1911633.3797
L	659+10.00	105.00	456554.9267	1911736.6200
L	659+70.00	105.00	456550.5088	1911796.4572
L	660+10.00	105.00	456547.5635	1911836.3486
L	660+70.00	105.00	456543.1456	1911896.1857
L	662+31.00	105.00	456531.2906	1912056.7527
L	662+91.00	105.00	456526.8726	1912116.5898
L	663+02.00	105.00	456526.0632	1912127.5533
L	663+62.00	105.00	456521.6453	1912187.3904
L	673+20.06	105.00	456451.1014	1913142.8524
L	674+00.00	105.46	456444.6469	1913221.9166
L	674+61.31	105.24	456439.7692	1913281.7198
L	674+80.06	105.00	456438.2878	1913299.8730

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	675+19.00	105.00	456434.4160	1913337.4217
L	675+80.96	105.00	456427.3776	1913397.0653
L	675+85.00	105.00	456426.8810	1913400.9513
L	676+47.02	105.00	456418.6852	1913460.5095
L	680+49.31	-96.47	456534.0563	1913894.5480
L	682+09.49	105.00	456295.6299	1913991.0408
L	682+60.00	-88.45	456463.7901	1914099.0997
L	683+19.25	-88.14	456444.2026	1914155.8223
L	683+69.49	105.00	456245.2260	1914140.3038
L	684+00.00	105.00	456235.2428	1914169.1308
L	684+60.00	105.00	456215.6081	1914225.8271
L	685+95.72	105.00	456171.1958	1914354.0700
L	686+05.00	105.00	456168.1574	1914362.8433
L	686+26.57	112.73	456153.7945	1914380.6970
L	687+25.00	148.00	456088.2555	1914462.1645
L	687+32.00	-87.87	456308.8505	1914545.9675
L	687+45.00	123.00	456105.3341	1914489.2444
L	687+45.00	105.00	456122.3430	1914495.1348
L	687+92.00	-87.94	456289.2829	1914602.6871
L	690+35.00	-88.65	456210.4269	1914832.5375
L	690+95.00	-88.82	456190.9549	1914889.2903
L	691+45.00	105.00	455991.4447	1914873.1105
L	692+05.00	105.00	455971.8099	1914929.8068
L	692+21.94	105.00	455966.2656	1914945.8164
L	693+60.00	106.79	455919.2474	1915073.3875
L	694+22.35	106.16	455898.4939	1915129.6964
L	694+61.94	105.00	455885.4592	1915165.0625
L	695+75.00	-97.97	456024.3976	1915351.0548
L	696+32.16	-100.11	455999.4519	1915405.6595
L	697+61.00	-102.79	455935.6293	1915525.0479
L	698+20.00	-102.98	455902.9594	1915577.7810
L	699+10.00	105.00	455680.3467	1915535.7451
L	699+70.00	104.84	455646.8756	1915581.6981
L	700+00.00	105.00	455629.4309	1915604.1423
L	700+00.00	-145.00	455826.5580	1915757.8983
L	700+50.00	140.00	455572.7792	1915618.9209
L	700+50.00	-97.54	455756.3747	1915769.6530
L	700+80.08	-96.32	455735.2378	1915793.0898
L	702+90.00	105.00	455444.3973	1915810.5277
L	703+41.00	-90.83	455546.7345	1915985.0636
L	703+44.99	105.07	455405.9137	1915848.8249
L	703+75.92	105.00	455384.0679	1915870.5648
L	704+00.88	-90.89	455504.1529	1916027.3344
L	704+05.10	105.00	455363.3324	1915891.0959
L	705+20.00	105.00	455281.6818	1915971.9361
L	705+80.00	105.00	455239.0446	1916014.1507
L	709+89.02	-91.20	455086.4315	1916441.3478
L	710+28.89	-135.49	455089.2612	1916500.8774
L	710+89.22	-135.47	455046.3695	1916543.3121
L	711+38.45	-91.15	454980.2061	1916546.4474
L	712+50.00	105.00	454762.9295	1916485.5469
L	713+10.00	105.00	454720.2923	1916527.7615
L	721+15.00	105.00	454148.2435	1917094.1404
L	721+75.00	105.00	454105.6063	1917136.3550
L	722+95.00	105.00	454020.3320	1917220.7842
L	724+05.00	135.00	453921.0565	1917276.8590
L	724+70.03	-153.25	454077.6494	1917527.4437
L	724+78.03	-91.44	454028.4785	1917489.1529
L	725+58.25	-141.34	454006.5772	1917581.0542
L	725+65.00	105.00	453828.4647	1917410.7498
L	726+18.19	-132.88	453958.0294	1917617.2179
L	726+20.00	105.00	453789.3806	1917449.4465
L	726+75.00	105.00	453750.2965	1917488.1432
L	727+35.00	105.00	453707.6593	1917530.3578
L	729+18.20	-91.64	453715.8222	1917798.9930
L	729+25.97	105.00	453571.9517	1917664.7204
L	729+66.00	105.00	453543.5074	1917692.8827
L	729+80.00	105.00	453533.5575	1917702.7340
L	730+40.00	105.00	453490.9204	1917744.9486
L	735+27.00	105.00	453144.8510	1918087.5880
L	735+87.00	104.99	453102.2227	1918129.8116
L	736+80.10	105.00	453036.0527	1918195.3079
L	739+20.04	105.00	452864.4023	1918375.0680
L	739+40.00	105.00	452850.6011	1918391.4276
L	739+86.62	105.46	452818.8894	1918430.0848
L	740+20.00	105.00	452797.5802	1918458.8618
L	742+76.00	105.00	452654.1649	1918692.5420
L	743+32.46	102.78	452630.3652	1918747.6997
L	744+92.72	104.35	452564.9154	1918899.3598
L	745+16.18	105.00	452555.5816	1918920.9917
L	745+51.38	105.00	452542.6232	1918953.3551
L	748+29.92	105.00	452436.4802	1919208.0482
L	750+30.00	105.00	452356.5046	1919390.6808
L	759+40.00	105.00	451990.4339	1920223.8028
L	760+00.00	105.00	451966.2974	1920278.7339
L	760+53.57	105.00	451944.7475	1920327.7782
L	761+73.57	105.00	451896.4231	1920438.7522
L	764+10.00	105.00	451806.1762	1920661.6762
L	764+60.00	105.00	451788.2076	1920709.2564
L	765+00.00	135.00	451745.9354	1920737.1347

I, C. ANDREW HEATH. JR., 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 day. 8/18/2021

DocuSigned by:
C. Andrew Heath Jr.
2CC014B3929747F...

---------- L-3281
Professional Land Surveyor PLS # Seal

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	766+50.00	105.01	451723.4997	1920891.3830
L	766+75.00	105.01	451715.4082	1920915.4936
L	768+86.38	105.00	451651.0163	1921120.6484
L	770+06.38	105.00	451617.5424	1921236.9613
L	774+80.00	105.00	451488.0595	1921692.5407
L	775+40.00	105.00	451471.6562	1921750.2549
L	776+05.00	105.00	451453.8860	1921812.7787
L	776+65.00	105.00	451437.4827	1921870.4929
L	776+81.00	105.00	451433.1087	1921885.8824
L	777+41.00	105.00	451416.7055	1921943.5967
L	777+69.00	105.00	451409.0516	1921970.5263
L	777+89.00	104.32	451404.2369	1921989.9523
L	778+30.75	-90.66	451580.3764	1922083.4159
L	779+00.00	105.00	451373.2365	1922096.5403
L	779+60.00	105.00	451356.8332	1922154.2545
L	780+20.00	-103.05	451540.5539	1922268.8471
L	780+37.00	-90.63	451523.9612	1922281.8045
L	781+63.00	105.00	451301.3354	1922349.5210
L	782+23.00	105.00	451284.9321	1922407.2352
L	782+40.00	105.00	451280.2845	1922423.5876
L	783+00.00	105.00	451263.8812	1922481.3018
L	783+75.00	105.00	451243.3771	1922553.4446
L	784+35.00	105.00	451226.9738	1922611.1588
L	786+05.00	105.05	451180.4510	1922774.6691
L	786+45.00	-90.55	451357.6591	1922866.6187
L	786+65.00	105.05	451164.0477	1922832.3834
L	787+15.00	105.00	451150.4251	1922880.4919
L	788+00.00	150.00	451083.9014	1922949.9512
L	788+25.00	-90.52	451308.4250	1923039.7545
L	790+05.00	105.00	451071.1425	1923159.4440
L	790+32.00	105.00	451063.7610	1923185.4154
L	791+13.00	104.86	451041.7536	1923263.3733
L	791+73.00	104.86	451025.3503	1923321.0875
L	794+05.00	105.00	450961.7872	1923544.2055
L	796+00.00	105.00	450908.4765	1923731.7767
L	796+65.00	-90.40	451078.6656	1923847.7215
L	797+25.00	-90.40	451062.2543	1923905.4334
L	797+68.00	-90.39	451050.4928	1923946.7936
L	798+10.00	105.00	450851.0650	1923933.7765
L	798+28.00	-90.38	451034.0814	1924004.5055
L	798+70.00	105.00	450834.6617	1923991.4907
L	799+97.26	-90.36	450987.7855	1924167.3088
L	800+07.00	105.02	450797.1834	1924123.2692
L	800+56.09	-117.14	450997.4670	1924231.2180
L	800+67.00	105.02	450780.7801	1924180.9835
L	800+99.90	105.02	450771.7854	1924212.6306
L	801+16.09	-144.46	451007.3422	1924296.4057
L	801+44.17	-157.25	451011.9630	1924326.9082
L	801+60.00	105.00	450755.3791	1924270.4428
L	801+69.03	-102.64	450952.6399	1924335.8950
L	801+71.70	-90.33	450940.0712	1924335.0998
L	802+50.00	105.00	450730.7741	1924357.0142

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 APRIL 2021 TO SEPTEMBER 2021 .

REVISIONS

6/2/99

$$$$SYTIME$$$$
$$$$SFILENAME$$$$
$$$$USER$$$$

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02E-5

Location and Surveys

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333
formerly CALYX Engineers & Consultants

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-3281 LAND SURVEYOR C. ANDREW HEATH, JR.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, C. ANDREW HEATH, JR., 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 day. 9/7/2021

DocuSigned by:
C. Andrew Heath Jr.
2CC014B3929747F...

Professional Land Surveyor — L-3281 PLS # — Seal

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	803+10.00	105.00	450714.3709	1924414.7284
L	804+00.00	105.00	450689.7659	1924501.2997
L	804+60.00	105.00	450673.3626	1924559.0140
L	805+35.00	-90.28	450840.7006	1924684.5444
L	805+50.00	105.00	450648.7577	1924645.5853
L	805+95.00	-90.27	450824.2892	1924742.2563
L	806+10.00	105.00	450632.3544	1924703.2995
L	806+65.00	-90.26	450805.1426	1924809.5869
L	806+80.00	105.00	450613.2172	1924770.6328
L	807+25.00	-100.00	450798.1050	1924869.9630
L	807+25.00	-90.25	450788.7312	1924867.2989
L	807+40.00	105.00	450596.8139	1924828.3470
L	807+45.00	-100.00	450792.6373	1924889.2011
L	809+40.00	105.00	450542.1363	1925020.7278
L	809+50.00	-130.00	450765.4498	1925094.5930
L	810+00.00	-105.00	450727.7328	1925135.8535
L	810+37.00	-90.21	450703.3920	1925167.4009
L	810+37.00	-105.00	450717.6174	1925171.4440
L	811+15.00	90.00	450508.7141	1925193.1915
L	811+50.00	-90.13	450672.5701	1925275.7887
L	812+10.00	-89.75	450656.2914	1925333.0341
L	812+95.00	-88.67	450633.2269	1925414.1421
L	813+55.00	-87.51	450616.9427	1925471.4067
L	815+40.00	-81.92	450566.7045	1925648.0735
L	816+00.00	-79.45	450550.3984	1925705.4151
L	816+10.00	-79.01	450547.6800	1925714.9747
L	816+50.00	-95.83	450555.0015	1925757.4503
L	816+60.00	-100.00	450556.8284	1925768.0490
L	817+10.00	-98.77	450544.5586	1925816.0740
L	817+60.00	-97.31	450532.2858	1925864.1108
L	818+20.00	-95.26	450517.5537	1925921.7733
L	818+96.00	-92.21	450498.8845	1925994.8460
L	819+56.00	-89.43	450484.1379	1926052.5658
L	820+65.00	90.00	450286.9243	1926124.5582
L	822+40.00	105.00	450240.0315	1926295.4113
L	822+65.00	-70.00	450408.0488	1926350.3851

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
L2B	825+50.00	47.08	450193.5343	1926594.7559
L2B	825+80.00	-52.83	450281.5969	1926650.6768
L2B	826+22.00	-52.70	450270.1089	1926691.0753
L2B	826+82.00	-52.52	450253.6975	1926748.7873
L2B	827+00.00	47.53	450152.5057	1926739.0363
L2B	827+00.00	-52.47	450248.7740	1926766.1012

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
DR1C	12+82.88	33.46	501727.8755	1877001.1568

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
DR1D	12+33.31	-20.00	500883.4490	1873755.6591

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
DR9	14+24.00	29.90	487702.8176	1888567.0796
DR9	14+80.00	123.00	487636.4669	1888653.1090

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
SR2	11+15.35	32.55	501334.1746	1877359.8416
SR2	11+23.45	-39.90	501262.3377	1877347.4473
SR2	14+47.00	-61.00	501276.2650	1876995.4398
SR2	14+68.00	-50.00	501314.8229	1876971.6971
SR2	14+68.00	30.00	501358.7861	1877038.5345

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1	12+00.00	-22.00	500920.8983	1871982.9419
Y1	12+00.00	28.09	500958.1936	1872016.3794
Y1	12+00.00	44.25	500970.2281	1872027.1691

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y2	18+51.50	57.33	501005.6870	1872884.0626
Y2	19+18.00	52.00	501066.2815	1872886.5237
Y2	19+58.00	59.00	501100.2133	1872901.1791
Y2	20+46.00	24.70	501188.6361	1872894.7856

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y2A	12+50.00	24.99	500502.7736	1872583.6942
Y2A	12+50.00	-25.01	500521.1994	1872537.2129
Y2A	13+90.00	68.00	500625.3188	1872676.8392

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y3	10+75.00	25.27	500554.5724	1873553.4969
Y3	10+75.00	53.00	500557.2373	1873581.0950
Y3	12+19.00	-20.04	500697.1172	1873511.1750
Y3	13+28.00	75.79	500800.2643	1873613.2795
Y3	16+82.48	-45.00	501157.5584	1873497.6465
Y3	16+82.48	57.34	501160.9610	1873599.9260
Y3	17+81.00	45.00	501268.9752	1873569.7791
Y3	18+52.18	-45.00	501301.0694	1873460.0013
Y3	18+52.18	45.00	501342.6159	1873539.8380
Y3	19+15.00	-45.00	501356.7939	1873431.0027
Y3	19+15.00	-20.00	501368.3346	1873453.1795
Y3	19+15.00	20.00	501386.7997	1873488.6625
Y3	19+15.00	45.00	501398.3404	1873510.8394

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y4	11+23.00	-55.00	501291.7190	1874331.8508
Y4	11+23.00	50.00	501330.6356	1874429.3726
Y4	12+65.71	45.00	501462.2550	1874336.6000
Y4	13+60.02	-55.00	501439.2781	1874202.8757
Y4	13+60.02	45.00	501526.3616	1874252.0331
Y4	15+05.00	-24.83	501536.8219	1874091.4567
Y4	15+05.00	45.00	501597.6290	1874125.7814
Y4	15+05.00	25.00	501580.2123	1874115.9499

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y4A	10+90.00	-37.00	500950.4775	1874342.4326
Y4A	10+90.00	-19.86	500944.7057	1874358.5733
Y4A	10+90.00	35.00	500926.2343	1874410.2283
Y4A	10+90.00	24.42	500929.7981	1874400.2653
Y4A	11+82.25	35.00	501013.0948	1874441.2889
Y4A	12+27.03	35.00	501062.4432	1874454.0927
Y4A	12+50.00	42.36	501087.9061	1874464.5255

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y4B	11+30.68	-30.00	501405.5702	1874485.8090
Y4B	12+08.32	40.00	501385.0844	1874588.1948
Y4B	12+75.57	-30.00	501480.6733	1874571.2219
Y4B	13+00.00	-30.00	501503.2096	1874580.6647
Y4B	13+00.00	-18.33	501498.6996	1874591.4283
Y4B	13+00.00	21.67	501483.2408	1874628.3221
Y4B	13+00.00	40.00	501476.1578	1874645.2264

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y5A	10+94.00	-30.00	501087.4807	1874824.3471
Y5A	10+94.00	-19.49	501084.1121	1874834.3052
Y5A	10+94.00	20.55	501071.2839	1874872.2279
Y5A	10+94.00	36.72	501066.0999	1874887.5528
Y5A	11+49.00	-30.00	501139.5805	1874841.9711
Y5A	11+49.00	36.91	501118.1408	1874905.3510

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y5B	10+40.00	-19.40	501106.1606	1875195.0798
Y5B	10+40.00	20.61	501095.5023	1875233.6387
Y5B	10+40.00	49.50	501087.8049	1875261.4854
Y5B	11+13.00	-41.00	501182.2780	1875193.7057
Y5B	11+13.00	51.88	501157.5333	1875283.2247

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y5C	11+00.00	20.00	501607.2544	1875351.6756
Y5C	11+00.00	-20.00	501645.8762	1875362.0850
Y5C	11+00.00	-37.00	501662.2905	1875366.5089
Y5C	11+00.00	45.00	501583.1157	1875345.1698
Y5C	12+01.66	-37.00	501635.8342	1875464.6697
Y5C	12+01.66	45.00	501556.6593	1875443.3304
Y5C	12+46.00	-37.00	501618.3117	1875512.3857
Y5C	13+09.50	-47.22	501587.0813	1875580.2320
Y5C	14+43.00	45.00	501427.5098	1875583.0974
Y5C	14+43.00	-45.00	501457.7090	1875667.8795

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y5D	11+90.00	-20.00	501541.5937	1875749.0045
Y5D	12+24.00	-51.07	501562.7407	1875789.9173
Y5D	13+12.00	-77.09	501564.9725	1875881.6590
Y5D	13+60.50	-21.08	501498.2624	1875913.9099
Y5D	13+60.50	-77.00	501552.2600	1875928.4634

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y6	12+89.00	-50.00	501101.7042	1876355.1575
Y6	12+89.00	-29.56	501099.2199	1876375.4421
Y6	12+90.00	50.00	501090.5992	1876454.5440
Y6	12+90.00	30.44	501092.9542	1876435.1245
Y6	14+71.00	-50.00	501272.5206	1876357.4697
Y6	14+71.00	50.00	501281.9862	1876457.0207
Y6	14+88.80	50.00	501300.7451	1876455.0362

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y6A	10+79.00	-52.93	501469.2778	1876331.4102
Y6A	11+05.00	61.00	501495.8661	1876445.2055
Y6A	11+05.00	-48.64	501495.2996	1876335.5651
Y6A	12+18.00	-30.00	501608.3944	1876353.6228
Y6A	12+24.00	30.00	501614.7043	1876413.5910

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y7	12+43.00	-65.00	497943.8996	1883665.5263
Y7	12+43.00	65.71	497924.8623	1883794.8452
Y7	17+00.00	65.00	498377.0933	1883860.6986
Y7	17+00.00	-75.00	498397.4832	1883722.1914
Y7	17+00.00	-29.72	498390.8881	1883766.9909
Y7	17+00.00	30.28	498382.1496	1883826.3512

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y8	10+25.00	-45.00	496811.0370	1883595.9467
Y8	10+25.00	-29.81	496804.3996	1883609.6093
Y8	10+25.00	30.19	496778.1812	1883663.5778
Y8	10+25.00	43.00	496772.5834	1883675.1005
Y8	14+35.84	-45.00	497180.5738	1883775.4709
Y8	15+00.00	47.00	497191.4199	1883886.8866
Y8	15+00.00	-45.00	497241.1475	1883809.4840
Y8	15+22.00	-45.00	497260.9314	1883822.7712

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y9A	11+89.00	102.00	489168.9630	1888825.8814
Y9A	12+10.00	-104.00	489375.4481	1888810.3599
Y9A	12+10.00	99.20	489175.4092	1888846.0628
Y9A	15+54.61	50.00	489284.3931	1889176.6688
Y9A	16+50.00	-40.00	489385.4247	1889259.5229
Y9A	23+44.81	50.00	489106.1742	1889879.8588
Y9A	23+44.81	-40.00	489176.5472	1889935.9627
Y9A	25+65.00	-40.00	489039.2846	1890108.1357
Y9A	25+65.00	-50.00	489047.1038	1890114.3694
Y9A	28+88.06	-50.00	488845.7171	1890366.9754
Y9A	28+88.06	50.00	488767.5250	1890304.6377
Y9A	31+38.00	50.00	488640.1381	1890538.1048
Y9A	33+30.00	-35.00	488685.8065	1890744.0786
Y9A	36+40.43	-35.00	488731.4326	1891033.5580
Y9A	36+40.43	-30.00	488726.7744	1891035.3749

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 APRIL 2021 TO SEPTEMBER 2021 .

REVISIONS

9/7/2021 - REVISED PER DIVISION L&S COMMENTS

6/2/99

$$$$$SYSTIME$$$$
$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$
$$$$USERNAME$$$$

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02E-6

Location and Surveys

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333
formerly CALYX Engineers & Consultants

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-3281 LAND SURVEYOR C. ANDREW HEATH, JR.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, C. ANDREW HEATH, JR., 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 day . 10/5/2021

DocuSigned by:
C. Andrew Heath Jr.
2C0148392974 7F...

Professional Land Surveyor PLS # L-3281 Seal

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y9B	10+35.00	146.94	488198.3174	1889485.3507
Y9B	10+45.00	192.16	488230.2558	1889518.8756
Y9B	13+68.00	-121.65	488345.0244	1889083.5289
Y9B	14+52.00	-50.00	488453.9096	1889101.8161
Y9B	16+03.48	50.00	488635.2472	1889109.7322
Y9B	20+34.75	50.00	489018.6606	1889021.0332
Y9B	22+49.00	62.00	489231.1126	1889051.2173

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y9C	12+00.00	-29.73	488461.2333	1890353.9260
Y9C	12+00.00	-40.00	488470.8092	1890350.2180
Y9C	12+95.52	-40.00	488505.3019	1890439.2951
Y9C	14+82.00	-40.00	488608.7626	1890552.0589

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y9D	11+97.48	51.56	487457.7238	1887982.2424
Y9D	12+00.00	-31.48	487538.8423	1887964.3165
Y9D	13+00.00	-55.00	487589.9113	1888054.0649
Y9D	13+95.91	-55.00	487607.4286	1888158.1384
Y9D	14+30.00	50.00	487504.1815	1888197.2118
Y9D	14+88.16	-30.00	487581.7778	1888257.3439
Y9D	15+65.00	-50.00	487587.9935	1888341.9543
Y9D	16+50.00	35.00	487480.8153	1888397.6763
Y9D	17+12.92	-50.00	487529.4117	1888492.0359
Y9D	18+35.00	-60.00	487496.3674	1888596.8131
Y9D	18+50.00	80.00	487357.3582	1888574.3175
Y9D	19+95.00	-70.00	487487.3115	1888737.0959
Y9D	19+95.00	85.53	487331.7995	1888739.1592
Y9D	20+65.00	105.00	487318.8442	1888822.7156
Y9D	20+70.00	-100.00	487522.3536	1888797.5512

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y9E	12+19.36	60.61	487831.0010	1889072.4516
Y9E	12+85.00	47.00	487878.4784	1889096.2489
Y9E	13+31.00	108.00	487847.8261	1889157.5238
Y9E	14+03.00	99.00	487877.7519	1889204.3004
Y9E	14+46.00	30.00	487957.6701	1889219.2363

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y9F	12+00.00	-34.40	486991.6716	1889991.2741
Y9F	12+00.00	73.40	487009.4746	1890097.5943
Y9F	20+08.00	-50.08	487668.1645	1889577.8077
Y9F	20+08.00	49.92	487720.3048	1889663.1390
Y9F	20+64.00	-75.00	487702.9560	1889527.3438
Y9F	20+75.00	81.37	487793.8733	1889655.0394
Y9F	21+20.00	-50.23	487763.6546	1889519.2785
Y9F	21+39.14	49.76	487832.1190	1889594.6231

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y10	15+35.00	30.89	480675.1897	1893786.6788
Y10	15+35.00	-29.11	480723.4784	1893751.0591
Y10	18+30.00	-55.94	480921.1587	1893971.0854
Y10	18+30.00	60.15	480828.4525	1894040.9635
Y10	19+44.00	-30.41	480969.3868	1894077.4906
Y10	19+44.00	29.59	480921.4734	1894113.6057

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y11	11+63.00	50.39	478086.9765	1895383.4413
Y11	11+63.00	-29.63	478166.9005	1895379.4890

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y11B	11+00.00	49.13	475778.2154	1895878.8190
Y11B	11+30.00	-37.51	475863.2750	1895844.3900
Y11B	11+55.00	-25.00	475872.1006	1895870.5877
Y11B	11+80.00	25.00	475854.9273	1895923.7862
Y11B	11+80.00	-25.00	475889.9453	1895888.0967
Y11B	12+90.00	-25.00	475968.4622	1895965.1364
Y11B	12+95.00	25.00	475937.0131	1896004.3277
Y11B	13+35.00	-15.00	475993.5791	1896003.7905
Y11B	13+35.00	15.00	475972.5683	1896025.2042

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y11C	10+40.00	-25.80	473738.9268	1897085.2904
Y11C	10+40.00	34.22	473697.9523	1897129.1416
Y11C	10+85.26	-26.87	473772.8549	1897115.5894

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y11D	10+00.00	-30.00	475321.3164	1895347.0734
Y11D	10+00.00	30.00	475284.8313	1895394.7057
Y11D	10+48.01	-30.00	475359.4290	1895376.2666
Y11D	10+48.01	30.00	475322.9439	1895423.8989
Y11D	11+35.00	30.00	475383.2187	1895479.0057
Y11D	11+65.00	-30.00	475448.2000	1895462.4549
Y11D	12+55.00	75.00	475409.6141	1895592.3365
Y11D	13+65.00	90.00	475449.9188	1895695.7799
Y11D	13+65.00	-60.00	475581.0450	1895622.9380
Y11D	14+00.00	-65.00	475602.4123	1895651.1061

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y11E	11+49.37	28.68	473947.8609	1897362.9260
Y11E	11+60.35	-31.14	473996.2840	1897326.1128
Y11E	11+70.00	-30.26	474002.8202	1897333.2640
Y11E	11+70.00	28.34	473963.3448	1897376.5704
Y11E	13+00.00	-25.00	474093.7716	1897432.7664
Y11E	13+00.00	20.00	474057.7880	1897459.7943

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y12	12+00.00	-50.06	473281.9608	1897957.2053
Y12	12+00.79	29.94	473234.5396	1898021.6403

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y12A	10+95.00	-44.58	472375.4145	1898229.0378
Y12A	11+70.00	44.53	472475.2999	1898163.5775
Y12A	12+10.00	40.00	472478.5765	1898123.4552
Y12A	12+10.00	-35.00	472404.9876	1898108.9747
Y12A	16+40.00	-40.00	472735.9140	1897903.9672
Y12A	16+40.00	29.01	472766.9919	1897965.5817
Y12A	16+57.84	-40.00	472751.8440	1897895.9322
Y12A	17+00.00	-40.00	472816.1988	1897885.1484
Y12A	17+30.00	-47.48	472864.1492	1897894.8446

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y13	11+69.92	-75.00	472188.2575	1898723.3908
Y13	13+09.08	-75.00	472182.9834	1898884.5371
Y13	15+50.00	-75.00	472161.8087	1899110.5752
Y13	17+25.00	-80.00	472177.1492	1899274.6188
Y13	18+65.00	-29.73	472151.9712	1899415.6367
Y13	18+65.00	-50.00	472171.6909	1899410.9360

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y14	10+85.00	70.00	471945.9160	1898039.2944
Y14	10+95.00	-70.00	472086.1603	1898044.9095
Y14	10+95.00	-30.00	472046.1799	1898046.1609
Y14	14+45.00	-70.00	472097.1105	1898394.7381
Y14	14+45.00	73.07	471954.1151	1898399.2141
Y14	15+25.00	80.00	471956.2870	1898494.5581

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y15	14+00.00	28.40	470329.5560	1899521.9823
Y15	14+20.00	-34.54	470386.8275	1899489.0453

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y16	14+25.00	-45.00	464717.9534	1903464.7240
Y16	14+25.00	40.00	464775.5086	1903527.2731
Y16	14+25.00	-25.02	464731.4817	1903479.4261
Y16	14+25.00	24.98	464765.3389	1903516.2210
Y16	14+35.42	40.00	464783.4489	1903519.8885
Y16	14+35.42	-45.00	464725.2320	1903457.9548
Y16	17+39.82	40.00	465026.8314	1903465.3527
Y16	17+40.00	-45.00	465053.2498	1903384.5623
Y16	18+00.00	-45.00	465116.5825	1903412.8067

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y18	14+05.00	-30.44	461354.3784	1905942.2409
Y18	14+25.00	30.00	461306.6169	1905984.3276

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y19	13+00.00	-30.00	458365.6208	1907182.8424
Y19	13+05.00	30.00	458305.4369	1907184.5438
Y19	13+05.00	40.00	458295.4520	1907183.9953
Y19	13+84.40	48.64	458285.2505	1907269.8958
Y19	14+05.00	55.00	458282.2238	1907295.3820

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y20	14+00.00	-30.00	457560.5537	1908185.5074
Y20	14+00.00	30.00	457531.2632	1908237.8721

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y21	11+50.00	-30.00	455097.4577	1916507.5765
Y21	11+50.00	30.00	455059.4891	1916554.0349

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y22	10+84.96	-30.28	452368.2853	1919233.3731
Y22	11+35.00	29.91	452364.6618	1919311.3553

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y23	11+48.97	35.00	451382.5953	1923004.3717
Y23	11+53.25	-35.00	451397.3207	1922935.8040

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y24	11+85.00	-30.00	450804.6364	1923374.9250
Y24	13+00.00	-50.00	450866.0322	1923467.3038
Y24	13+38.08	-50.00	450883.3478	1923498.2528
Y24	14+29.96	36.95	450877.7435	1923621.5225
Y24	14+30.00	-50.00	450931.5672	1923553.2281

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y25	14+35.00	-33.87	450477.4892	1925032.8779
Y25	14+35.00	26.13	450460.9772	1925090.5613

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y26	11+30.00	45.00	450429.9099	1926537.8619
Y26	11+90.00	-65.00	450478.0204	1926421.8660
Y26	12+09.00	45.00	450504.2416	1926530.4044
Y26	12+72.49	45.00	450564.2789	1926529.5360
Y26	13+00.00	-65.00	450596.5125	1926420.7573
Y26	13+00.00	45.00	450590.2821	1926530.5808
Y26	13+82.61	45.00	450667.9603	1926538.8660
Y26	14+15.00	-64.54	450719.3217	1926436.7366
Y26	15+55.18	50.00	450823.6816	1926585.3409
Y26	16+09.61	-45.00	450910.3440	1926518.6406
Y26	17+85.00	-45.00	451069.2146	1926612.5012
Y26	18+00.00	50.00	451023.8068	1926697.2717
Y26	18+60.00	65.00	451057.1982	1926744.4790
Y26	19+50.00	-70.00	451216.2406	1926712.5707
Y26	21+15.00	-62.02	451315.2678	1926860.4349
Y26	23+70.00	65.00	451293.4932	1927142.5192
Y26	26+00.00	29.99	451353.4350	1927357.9462
Y26	26+00.00	40.00	451343.4501	1927358.6417

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 APRIL 2021 TO SEPTEMBER 2021 .

REVISIONS

9/7/2021 - REVISED PER DIVISION L&S COMMENTS
10/2021 -REVISED -Y9D- 12+00.00 -31.48 LT TO MATCH EXISTING RW

6/2/99

$$$$SYSTEM$$$$
$$$$DGN$$$$
$$$$USERNAME$$$$

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02E-7

Location and Surveys

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333
formerly CALYX Engineers & Consultants

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-3281 LAND SURVEYOR ANDREW HEATH, JR.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y26A	10+85.00	-60.00	451123.1379	1926609.7570
Y26A	11+35.00	40.00	451232.0770	1926633.8640
Y26A	12+20.00	-35.50	451248.0392	1926522.2400
Y26A	12+22.00	35.86	451288.6705	1926580.9449
Y26A	12+82.00	69.92	451349.5195	1926587.0177
Y26A	13+80.00	26.97	451419.7183	1926524.0567

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y27	10+30.00	39.88	449944.8526	1926410.9319
Y27	10+30.00	-40.12	449967.6256	1926334.2402
Y27	11+85.00	-41.04	450116.4749	1926377.4804
Y27	12+60.00	61.92	450159.0652	1926497.5257

ROW MARKER IRON PIN AND CAP-E

ALIGN	STATION	OFFSET	NORTH	EAST
SR1	11+25.00	-29.98	451246.2233	1925876.3191
SR1	11+25.00	-50.00	451266.0154	1925873.3388
SR1	11+75.00	-50.00	451273.4604	1925922.7814
SR1	11+75.00	-29.98	451253.6623	1925925.7626

I, C. ANDREW HEATH, JR., 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 day . 8/18/2021

DocuSigned by:
C. Andrew Heath Jr.
2CC014B3929747F...

---------- L-3281
Professional Land Surveyor PLS # Seal

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 APRIL 2021 TO SEPTEMBER 2021 .

REVISIONS

6/2/99

$$$$SYSTIME$$$$
$$$$USERNAME$$$$

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02E-8

Location and Surveys

NVS ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NVS.com
NC License # F-1333
formerly CALYX Engineers & Consultants

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-3281 LAND SURVEYOR C. ANDREW HEATH, JR.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, C. ANDREW HEATH, JR., 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 day. 9/7/2021

DocuSigned by:
C. Andrew Heath Jr.
2CC014B39297479...

---------- L-3281
Professional Land Surveyor PLS # Seal

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	12+82.00	214.00	500495.8332	1871790.4978
L	13+01.00	249.00	500464.8226	1871815.4847
L	13+20.00	188.00	500528.2456	1871823.2001
L	13+20.00	240.00	500477.8941	1871832.5554
L	13+20.00	222.00	500494.8004	1871829.3170
L	13+70.00	-190.00	500909.0733	1871804.3777
L	13+75.00	-357.00	501074.2478	1871779.2509
L	13+88.00	-375.04	501094.3360	1871788.7925
L	13+90.00	-129.91	500853.5594	1871834.8627
L	14+05.00	126.25	500604.2805	1871895.7036
L	14+05.00	136.00	500594.6896	1871897.4577
L	14+13.00	-195.00	500921.7279	1871845.7765
L	14+26.00	131.50	500602.8943	1871917.3054
L	14+26.00	162.82	500572.0886	1871922.9397
L	14+50.00	-145.00	500879.2004	1871891.1683
L	14+50.00	-145.00	500879.2004	1871891.1683
L	14+60.00	178.00	500563.2700	1871959.1165
L	14+81.00	142.88	500601.5933	1871973.4557
L	14+81.00	123.00	500621.1507	1871969.8787
L	14+81.00	167.00	500577.8687	1871977.7948
L	15+00.00	-129.97	500873.4123	1871943.0563
L	15+37.00	-129.99	500880.0901	1871979.4487
L	16+43.00	95.00	500677.8395	1872124.1978
L	16+43.00	107.00	500666.0353	1872126.3568
L	16+69.00	95.00	500682.5172	1872149.7736
L	16+69.00	88.00	500689.4030	1872148.5142
L	19+90.00	133.00	500702.8888	1872472.3724
L	19+90.00	88.00	500747.1545	1872464.2764
L	20+67.00	88.00	500761.0077	1872540.0200
L	20+74.79	88.00	500762.4085	1872547.6792
L	21+15.00	-91.60	500946.3138	1872554.9245
L	21+15.00	-124.00	500978.1842	1872549.0955
L	21+41.00	-118.00	500976.9598	1872575.7507
L	21+41.00	-139.00	500997.6171	1872571.9726
L	22+11.00	-126.90	500998.3101	1872643.0070
L	22+11.00	-105.21	500976.9758	1872646.9090
L	22+45.00	-131.23	501008.6802	1872675.6743
L	22+45.00	-110.03	500987.8352	1872679.4868
L	22+60.00	242.00	500644.2435	1872757.5771
L	23+14.00	-155.00	501044.4808	1872739.2711
L	23+14.00	-140.00	501029.7255	1872741.9698
L	23+35.00	-140.00	501033.5036	1872762.6272
L	23+35.00	-155.00	501048.2589	1872759.9285
L	23+70.00	172.00	500732.8915	1872853.1884
L	23+74.00	182.00	500723.7743	1872858.9223
L	23+89.01	159.04	500749.0618	1872869.5577
L	23+94.00	176.00	500733.2747	1872877.5165
L	24+09.43	91.14	500819.5270	1872877.4224
L	26+10.00	-107.00	501050.5178	1873039.0770
L	26+40.00	-100.00	501049.0293	1873069.8469
L	26+40.00	-84.35	501033.6381	1873072.6619
L	27+15.00	-97.00	501059.5716	1873144.1628
L	27+15.00	-84.42	501047.2016	1873146.4252
L	27+45.00	-102.00	501069.8874	1873172.7737
L	27+45.00	-97.00	501064.9690	1873173.6733
L	28+00.00	140.00	500841.7313	1873270.4149
L	29+05.00	125.31	500875.0675	1873371.0595
L	29+55.00	129.29	500880.1487	1873420.9596
L	29+90.00	-118.00	501129.7046	1873410.8975
L	29+90.00	-102.00	501113.9657	1873413.7760
L	30+07.00	-118.00	501132.7631	1873427.6201
L	30+07.00	-102.00	501117.0242	1873430.4986
L	32+18.00	-83.93	501137.2145	1873641.3059
L	32+18.00	-97.00	501150.0671	1873638.9553
L	32+50.00	105.00	500957.1203	1873706.7752
L	33+05.00	110.00	500962.0970	1873761.7773
L	33+50.00	100.00	500980.0299	1873804.2440
L	34+45.00	-83.50	501177.6224	1873864.6810
L	34+45.00	-120.00	501213.5317	1873858.1133
L	34+85.00	-83.42	501184.7427	1873904.0422
L	34+85.00	-120.00	501220.7281	1873897.4606
L	38+40.00	-82.73	501247.9357	1874253.3732
L	38+95.00	100.00	501078.0816	1874340.3511
L	39+03.00	-97.00	501273.3064	1874312.7780
L	39+15.00	-99.32	501277.7446	1874324.1653
L	43+23.00	-113.00	501359.8066	1874728.3707
L	43+33.00	-127.00	501375.0950	1874736.4711
L	43+53.00	-112.00	501363.0513	1874758.6814
L	44+84.00	-116.00	501384.0443	1874890.1425
L	44+84.00	-132.00	501399.9307	1874888.2393
L	45+02.72	114.63	501157.2212	1874935.8733
L	45+05.00	-116.00	501386.5516	1874911.3320
L	45+05.00	-132.00	501402.4434	1874909.4751
L	46+54.00	-93.25	501379.9270	1875064.0467

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	46+54.00	-110.00	501396.5971	1875062.4467
L	47+08.00	120.00	501172.5248	1875137.2989
L	47+24.00	134.00	501159.9452	1875154.1757
L	47+34.00	121.00	501173.7349	1875162.8558
L	48+70.00	-109.00	501413.7111	1875279.7315
L	48+70.00	-83.51	501388.2960	1875281.7135
L	48+88.00	-118.00	501424.0833	1875296.9773
L	48+96.00	-101.00	501407.7567	1875306.2748
L	52+00.00	115.00	501216.0455	1875626.1479
L	52+30.00	116.98	501216.4088	1875656.2106
L	56+51.72	-101.00	501466.5115	1876059.7090
L	58+95.00	-117.00	501501.3771	1876301.0070
L	58+95.00	-101.00	501485.4255	1876302.2510
L	60+58.00	-113.00	501510.0619	1876463.8246
L	60+73.00	95.00	501303.8577	1876494.9505
L	63+12.00	-124.00	501540.7762	1876716.2006
L	63+12.00	-113.00	501529.8095	1876717.0558
L	63+36.00	-113.00	501531.6755	1876740.9832
L	63+36.00	-131.00	501549.6210	1876739.5837
L	63+75.00	95.00	501327.3372	1876796.0364
L	64+33.00	-108.00	501534.2320	1876838.0783
L	64+33.00	-113.00	501539.2169	1876837.6896
L	64+45.00	134.00	501293.8975	1876868.8567
L	64+45.00	99.38	501328.4078	1876866.1654
L	64+63.00	-93.58	501522.1929	1876869.1082
L	64+63.00	-108.00	501536.5644	1876867.9875
L	64+74.00	144.00	501286.1824	1876898.5463
L	64+74.00	105.44	501324.6253	1876895.5485
L	65+05.00	-90.94	501522.8248	1876911.1865
L	65+05.00	-107.00	501538.8328	1876909.9381
L	65+21.00	-107.00	501540.0767	1876925.8897
L	67+25.96	-197.93	501646.6694	1877123.1624
L	68+57.16	-184.88	501643.8611	1877254.9753
L	70+62.16	165.40	501310.5759	1877486.5859
L	73+62.00	-272.00	501760.2767	1877791.4370
L	73+65.00	-241.63	501729.7163	1877793.1435
L	73+77.00	-275.00	501761.7926	1877811.0199
L	73+81.00	-244.34	501730.8072	1877813.4754
L	73+83.47	-412.41	501897.8955	1877831.8686
L	74+92.78	-466.62	501927.3872	1877999.0276
L	75+76.90	-220.03	501660.8659	1878046.0713
L	79+80.00	-118.60	501449.4931	1878403.9775
L	92+68.00	125.83	500850.4968	1879570.1229
L	92+68.00	155.00	500822.5201	1879561.8667
L	93+01.00	124.60	500842.3319	1879602.1204
L	93+01.00	165.00	500803.5886	1879590.6869
L	94+27.50	-135.00	501055.5154	1879796.9287
L	95+70.00	-138.00	501018.0598	1879934.4486
L	95+88.00	-149.00	501023.5152	1879954.8260
L	95+88.00	-149.00	501023.5152	1879954.8260
L	95+88.00	-149.00	501023.5152	1879954.8260
L	96+07.00	-135.00	501004.7099	1879969.0864
L	97+00.00	109.79	500743.6118	1879988.9989
L	97+00.00	-125.00	500968.7959	1880055.4530
L	97+08.00	127.00	500724.8365	1879991.7992
L	97+31.00	108.63	500735.9418	1880019.0571
L	97+31.00	117.26	500727.6683	1880016.6155
L	98+29.00	-117.00	500924.6079	1880176.9126
L	98+29.00	-132.00	500938.9973	1880181.1591
L	98+53.00	-140.00	500939.8771	1880206.4421
L	98+63.00	-123.00	500920.7419	1880211.2214
L	102+71.00	121.00	500571.2384	1880533.4750
L	102+71.00	89.35	500601.5896	1880542.4319
L	102+96.00	124.00	500561.2850	1880556.6035
L	102+96.00	88.65	500595.1871	1880566.6084
L	102+99.00	-118.00	500792.5399	1880627.9771
L	102+99.00	-134.00	500807.8856	1880632.5057
L	103+22.00	-118.00	500786.0300	1880650.0365
L	103+22.00	-134.00	500801.3757	1880654.5652
L	104+27.00	-134.00	500771.6562	1880755.2715
L	104+27.00	-118.00	500756.3105	1880750.7428
L	104+52.00	-118.00	500749.2345	1880774.7205
L	104+52.00	-134.00	500764.5802	1880779.2492
L	104+86.06	84.21	500545.6524	1880750.1512
L	104+98.00	123.00	500505.0696	1880750.6263
L	105+34.00	157.00	500462.2705	1880775.5307
L	105+52.00	157.00	500457.1757	1880792.7946
L	105+78.00	126.42	500479.1451	1880826.3866
L	105+78.00	141.00	500465.1623	1880822.2601
L	107+34.00	-134.00	500684.7623	1881049.7175
L	107+34.00	-118.00	500669.4166	1881045.1888
L	107+55.00	-134.00	500678.8184	1881069.8587
L	107+55.00	-118.00	500663.4727	1881065.3301
L	109+23.00	-118.00	500615.9216	1881226.4601

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	109+23.00	-134.00	500631.2673	1881230.9888
L	109+44.00	-134.00	500625.3234	1881251.1300
L	109+44.00	-118.00	500609.9777	1881246.6014
L	110+78.00	-133.00	500575.3882	1881391.4440
L	110+78.00	-117.00	500560.6487	1881385.2193
L	111+00.00	-133.00	500565.4392	1881414.2978
L	111+00.00	-118.00	500551.7526	1881408.1595
L	112+16.00	107.00	500298.6834	1881407.9364
L	112+30.00	125.00	500276.8761	1881409.1970
L	112+35.00	90.00	500304.2912	1881431.4078
L	112+67.00	101.00	500279.3654	1881449.7749
L	112+75.00	90.00	500284.4483	1881461.9208
L	112+84.00	-134.00	500463.9815	1881596.1870
L	112+84.00	-118.00	500450.8269	1881587.0790
L	113+03.00	-134.00	500451.5489	1881613.7838
L	113+03.00	-118.00	500438.5697	1881604.4275
L	113+10.00	90.00	500266.0968	1881487.9503
L	113+25.00	110.00	500241.9922	1881486.8568
L	114+88.00	-133.00	500313.1825	1881770.9573
L	114+88.00	-117.00	500302.1459	1881759.3732
L	115+00.00	90.00	500151.4074	1881616.9888
L	115+08.00	-133.00	500296.6214	1881786.4229
L	115+08.00	-117.00	500285.8185	1881774.6204
L	116+72.00	-129.00	500159.0798	1881893.2724
L	116+72.00	-112.00	500148.6017	1881879.8855
L	116+97.00	-112.00	500128.9151	1881895.2945
L	116+97.00	-129.00	500139.3932	1881908.6814
L	117+15.00	90.59	499989.8705	1881746.8539
L	117+28.00	125.00	499958.4265	1881727.7724
L	117+48.00	121.00	499945.1426	1881743.2495
L	117+48.00	90.74	499963.7913	1881767.0751
L	118+49.00	-111.00	500008.6041	1881988.1937
L	118+58.00	-127.00	500011.3786	1882006.3403
L	118+76.00	-117.00	499991.0407	1882009.5602
L	119+42.00	91.63	499810.4770	1881885.9513
L	119+45.00	118.00	499791.8611	1881867.0347
L	119+71.00	130.00	499763.9907	1881873.6105
L	119+71.00	110.00	499776.3179	1881889.3598
L	124+15.00	-148.00	499585.7042	1882366.1893
L	124+22.00	-100.00	499550.6078	1882332.7047
L	124+27.00	-100.00	499546.6722	1882335.7851
L	124+57.00	128.00	499382.5155	1882174.7361
L	124+57.00	112.00	499392.3772	1882187.3356
L	124+79.00	113.00	499374.4367	1882200.1080
L	124+79.00	126.00	499366.4240	1882189.8710
L	125+86.00	-100.00	499421.4625	1882433.7885
L	125+93.00	-136.00	499438.1393	1882466.4520
L	126+14.00	-135.00	499420.9860	1882478.6078
L	126+17.00	-100.00	499397.0511	1882452.8956
L	130+20.00	115.00	498947.1854	1882531.9836
L	130+31.00	135.00	498926.1961	1882523.0142
L	130+41.00	110.00	498933.7305	1882548.8644
L	130+49.00	126.00	498917.5690	1882541.1959
L	130+50.00	-100.00	499056.0788	1882719.7793
L	130+50.00	-138.00	499079.5004	1882749.7030
L	130+82.00	-138.00	499054.3015	1882769.4265
L	130+90.00	-125.00	499039.9891	1882764.1203
L	131+47.00	114.00	498847.7937	1882611.0487
L	131+47.00	97.13	498858.1903	1882624.3314
L	139+42.00	-125.00	498369.0690	1883289.2586

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 APRIL 2021 TO SEPTEMBER 2021.

REVISIONS

9/7/2021 - REVISED PER DIVISION L&S COMMENTS

6/2/99

SYSTEM$$$$
SCALE$$$$
CLEAR$$$$

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02E-9

Location and Surveys

NV5

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333
formerly CALYX Engineers & Consultants

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-3281 LAND SURVEYOR C. ANDREW HEATH, JR.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, C. ANDREW HEATH, JR., 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 day. 8/18/2021

DocuSigned by:
C. Andrew Heath Jr.
2CC014B3929747F...

Professional Land Surveyor L-3281 PLS # Seal

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	139+51.00	-141.00	498371.8436	1883307.4053
L	139+69.00	-100.00	498332.3985	1883286.2137
L	139+69.00	-132.00	498352.1220	1883311.4125
L	140+47.00	95.00	498150.7861	1883180.7340
L	140+47.00	108.00	498142.7735	1883170.4970
L	140+71.00	108.00	498123.8743	1883185.2896
L	140+82.00	130.00	498101.6523	1883174.7454
L	141+01.00	120.00	498092.8541	1883194.3308
L	141+01.00	113.00	498097.1686	1883199.8431
L	143+00.00	-90.45	498065.8642	1883482.7119
L	143+04.00	-123.00	498082.7740	1883510.8058
L	143+25.00	-123.00	498066.2373	1883523.7493
L	143+30.00	-90.00	498041.9601	1883500.8448
L	144+44.00	-100.00	497958.3527	1883578.9844
L	144+44.00	-90.00	497952.1891	1883571.1098
L	144+62.00	-110.00	497950.3419	1883597.9535
L	145+04.00	116.00	497777.9711	1883445.8736
L	145+04.00	132.00	497768.1094	1883433.2741
L	145+26.00	117.00	497760.0305	1883458.6460
L	145+26.00	131.00	497751.4015	1883447.6215
L	145+87.00	118.41	497711.1289	1883495.1371
L	145+87.00	95.00	497725.5551	1883513.5682
L	147+43.00	95.00	497602.7106	1883609.7202
L	147+43.00	120.01	497587.2972	1883590.0280
L	147+60.00	120.00	497573.9147	1883600.5117
L	148+21.00	121.00	497525.2630	1883637.3222
L	149+05.00	221.00	497397.4800	1883610.3499
L	149+21.00	200.00	497397.8241	1883636.7484
L	150+63.00	140.00	497322.9856	1883771.5194
L	150+63.00	125.00	497332.2310	1883783.3313
L	150+70.00	-139.00	497489.4377	1883995.5366
L	150+84.00	140.00	497306.4489	1883784.4629
L	150+84.00	129.00	497313.2288	1883793.1250
L	150+91.00	-138.00	497472.2845	1884007.6927
L	150+95.00	-105.91	497449.3560	1883984.8887
L	152+44.60	121.00	497191.6966	1883898.4097
L	152+52.00	-108.93	497327.5878	1884084.0383
L	152+68.00	-119.00	497321.1924	1884101.8265
L	152+74.00	-109.52	497310.6251	1884098.0602
L	153+92.00	120.00	497076.2369	1883990.0509
L	154+01.00	135.00	497059.9043	1883983.7862
L	154+28.00	119.00	497048.5045	1884013.0273
L	154+64.00	119.00	497020.1557	1884035.2163
L	154+64.00	134.00	497010.9104	1884023.4043
L	154+76.00	591.52	496719.4609	1883670.5158
L	154+86.00	118.00	497003.4479	1884049.5637
L	154+86.00	133.00	496994.2025	1884037.7517
L	155+48.00	-144.00	497116.1112	1884294.0938
L	155+48.00	-114.65	497098.0224	1884270.9834
L	155+69.00	-148.00	497102.0399	1884310.1872
L	155+80.00	-113.26	497071.9660	1884289.6113
L	155+92.00	131.00	496911.9639	1884104.6607
L	155+92.00	115.00	496921.8257	1884117.2602
L	156+15.00	114.00	496904.3303	1884132.2239
L	156+15.00	128.00	496895.7013	1884121.1994
L	158+23.00	112.00	496741.7704	1884262.0016
L	159+32.00	110.00	496657.1694	1884330.7597
L	159+39.00	125.00	496642.4118	1884323.2623
L	159+51.00	94.94	496651.4907	1884354.3307
L	159+51.00	100.00	496648.3712	1884350.3452
L	159+59.00	120.00	496629.7443	1884339.5268
L	160+50.00	-184.00	496745.4582	1884635.0048
L	161+18.00	-107.96	496645.0431	1884617.0390
L	161+18.00	-127.00	496656.7781	1884632.0318
L	161+41.00	-144.00	496649.1445	1884659.5949
L	161+66.00	-127.00	496618.9798	1884661.6170
L	163+18.00	-130.00	496501.1342	1884757.6660
L	163+18.00	-154.00	496515.9269	1884776.5652
L	163+40.00	-175.00	496511.5462	1884806.6619
L	163+55.00	216.00	496258.7376	1884508.0085
L	163+64.00	258.00	496225.7634	1884480.4822
L	163+67.00	230.00	496240.6590	1884504.3003
L	163+76.00	196.00	496254.5281	1884536.7013
L	163+78.00	-143.00	496461.8990	1884804.8847
L	163+79.00	-103.80	496436.9502	1884774.6324
L	163+84.00	264.00	496206.3159	1884488.0846
L	163+85.00	110.00	496300.4478	1884609.9706
L	163+85.00	115.00	496297.3660	1884606.0332
L	163+85.00	76.21	496321.2721	1884636.5759
L	163+96.00	-145.00	496448.9574	1884817.5541
L	164+00.00	228.00	496215.9054	1884526.2951
L	164+00.00	116.00	496284.9377	1884614.4912
L	164+00.00	-130.00	496436.5621	1884808.2075
L	164+30.00	124.00	496256.3828	1884626.6822
L	164+41.00	130.00	496244.0226	1884628.7374
L	164+44.00	124.00	496245.3583	1884635.3113
L	166+01.00	133.00	496116.1791	1884724.9925

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	166+32.00	115.46	496102.5814	1884757.9154
L	166+32.00	130.00	496093.6168	1884746.4621
L	167+89.00	-146.71	496140.5376	1885061.1333
L	167+89.00	-97.79	496110.3826	1885022.6036
L	167+89.00	-126.71	496128.2121	1885045.3827
L	168+21.00	-126.45	496102.8532	1885064.9016
L	168+21.00	-97.55	496085.0362	1885042.1385
L	168+21.00	-146.45	496115.1790	1885080.6520
L	170+00.00	-125.00	495961.0014	1885174.0859
L	171+60.00	-141.00	495844.8687	1885285.3029
L	171+60.00	-156.00	495854.1141	1885297.1148
L	171+82.00	-157.00	495837.4063	1885311.4622
L	171+82.00	-141.00	495827.5445	1885298.8628
L	173+38.00	95.00	495559.8205	1885208.0343
L	173+46.00	129.00	495532.9663	1885185.7523
L	173+61.00	-140.00	495683.6620	1885409.0841
L	173+61.00	-154.00	495692.1133	1885420.2455
L	173+67.00	127.00	495517.7993	1885199.7647
L	173+70.00	95.00	495534.7350	1885227.0750
L	173+82.00	-140.00	495666.5067	1885422.0269
L	173+82.00	-153.00	495674.3180	1885432.4184
L	175+52.00	-141.00	495526.5631	1885525.3907
L	175+52.00	-156.00	495535.2328	1885537.6314
L	175+73.00	-140.00	495508.4265	1885536.9649
L	175+73.00	-156.00	495517.6285	1885550.0539
L	175+83.00	95.00	495365.2161	1885350.3731
L	175+93.00	130.00	495337.1170	1885327.3139
L	176+15.00	95.00	495339.3743	1885368.3739
L	176+15.00	126.00	495321.7234	1885342.8897
L	176+20.00	-137.15	495467.3543	1885562.1318
L	176+65.00	-133.35	495427.2554	1885585.0200
L	177+95.00	-128.00	495313.6704	1885654.0890
L	178+28.00	-152.00	495298.3062	1885692.5643
L	178+47.00	-125.00	495267.3870	1885680.2816
L	178+52.00	130.00	495126.2789	1885467.8235
L	178+72.00	135.00	495107.0805	1885474.0646
L	178+90.00	99.98	495110.7848	1885513.1018
L	179+32.00	-140.00	495201.7487	1885739.1382
L	179+32.00	-124.00	495193.3458	1885725.5223
L	179+54.00	-137.00	495181.0022	1885748.3678
L	179+54.00	-124.00	495174.2155	1885737.2799
L	179+63.00	153.00	495022.1225	1885505.5963
L	179+84.00	122.03	495020.6689	1885542.7178
L	179+84.00	150.00	495006.1868	1885518.7897
L	180+93.00	-124.00	495052.3635	1885809.9370
L	181+20.00	115.00	494909.4177	1885616.5039
L	181+20.00	144.00	494894.9672	1885591.3584
L	181+43.00	111.69	494891.4753	1885630.5833
L	181+43.00	144.00	494875.4827	1885602.5060
L	182+36.00	97.30	494818.7504	1885687.7534
L	182+36.00	120.00	494807.8203	1885667.8530
L	182+56.00	127.00	494787.2759	1885671.1132
L	182+68.00	95.00	494792.2113	1885704.8528
L	183+14.00	-130.00	494858.0763	1885924.8856
L	183+20.00	-147.00	494860.6385	1885942.7774
L	183+36.00	-130.00	494838.2172	1885935.4126
L	183+39.00	-141.00	494840.6353	1885946.5734
L	185+43.00	-138.00	494653.0022	1886038.0734
L	185+43.00	-124.00	494646.8989	1886025.4738
L	185+64.00	-138.00	494633.6518	1886047.4050
L	185+64.00	-124.00	494627.5926	1886034.7841
L	187+67.00	-140.00	494445.7593	1886135.9305
L	187+67.00	-125.00	494439.7285	1886122.1963
L	187+92.00	-140.00	494422.3134	1886146.1676
L	187+92.00	-125.00	494416.3399	1886132.4083
L	188+38.00	83.83	494291.5033	1885958.7576
L	188+50.00	120.00	494266.5255	1885930.0571
L	188+72.00	115.00	494248.5813	1885943.0276
L	190+13.00	-142.00	494213.9804	1886234.2531
L	190+13.00	-126.00	494208.1534	1886219.3519
L	190+33.00	-142.00	494194.9006	1886241.6774
L	190+33.00	-126.00	494189.1234	1886226.7568
L	191+95.00	-123.00	494033.0854	1886281.5647
L	194+83.00	-140.00	493759.0723	1886389.8055
L	194+83.00	-125.00	493754.7032	1886375.4560
L	195+07.00	-140.00	493735.8028	1886396.8603
L	195+07.00	-125.00	493731.4660	1886382.5009
L	195+36.00	98.80	493639.1481	1886176.5681
L	195+50.00	135.00	493615.3797	1886145.9067
L	195+73.00	100.17	493603.3607	1886185.8702
L	195+73.00	130.00	493594.7974	1886157.2949
L	197+14.00	-147.00	493539.2482	1886463.1123
L	197+14.00	-132.00	493534.9423	1886448.7436
L	197+35.00	-132.00	493514.8262	1886454.7720
L	197+35.00	-147.00	493519.1321	1886469.1406
L	201+57.00	-134.00	493120.4700	1886581.9437
L	201+57.00	-149.00	493125.5850	1886596.0446

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	201+62.00	100.00	493035.8614	1886363.7187
L	201+62.00	139.00	493022.5173	1886327.0726
L	201+79.00	-148.00	493105.3343	1886602.3876
L	201+79.00	-134.00	493100.4892	1886589.2527
L	201+83.00	139.00	493002.1302	1886334.5558
L	201+83.00	100.00	493015.6631	1886371.1326
L	204+53.00	-129.00	492853.1157	1886684.6874
L	204+75.00	100.00	492739.0406	1886484.9174
L	204+75.00	139.00	492722.9206	1886449.4048
L	204+85.00	-140.00	492829.4532	1886707.4584
L	204+85.00	-130.00	492825.2975	1886698.3628
L	205+01.00	139.00	492698.4727	1886460.5967
L	205+01.00	100.00	492714.8192	1886496.0056
L	205+08.00	-140.00	492809.2791	1886716.7448
L	205+08.00	-130.00	492805.0721	1886707.6728
L	207+00.00	-134.34	492640.3714	1886793.6655
L	207+00.00	-96.07	492622.6512	1886759.7438
L	207+00.00	-147.00	492646.2315	1886804.8833
L	208+12.00	180.00	492392.0271	1886570.5509
L	208+50.00	-180.00	492535.0948	1886903.0856
L	210+36.00	113.00	492228.8186	1886740.8492
L	210+55.00	-121.00	492328.8537	1886953.2403
L	210+55.00	-140.00	492338.3141	1886969.7176
L	210+57.00	133.00	492200.6486	1886733.9609
L	210+57.00	113.00	492210.6069	1886751.3054
L	210+76.00	-140.00	492320.1023	1886980.1738
L	210+91.00	133.00	492171.1629	1886750.8900
L	210+96.00	-100.00	492282.8412	1886955.4431
L	210+96.00	-114.00	492289.8120	1886967.5843
L	211+03.00	140.00	492157.2708	1886750.7945
L	211+15.00	118.00	492157.8182	1886775.8484
L	212+13.00	-110.00	492186.3550	1887022.3715
L	212+13.00	-100.00	492181.3758	1887013.6993
L	213+51.00	-111.00	492067.1758	1887091.9512
L	213+51.00	-100.00	492061.6987	1887082.4117
L	213+71.00	133.00	491928.3398	1886890.3065
L	213+71.00	118.00	491935.8086	1886903.3149
L	213+71.00	-131.00	492059.7896	1887119.2540
L	213+71.00	-111.00	492049.8313	1887101.9095
L	213+92.00	-117.00	492034.6071	1887117.5691
L	213+92.00	113.00	491920.0864	1886918.1072
L	213+92.00	-131.00	492041.5779	1887129.7102
L	213+92.00	133.00	491910.1281	1886900.7627
L	214+12.00	113.00	491902.7419	1886928.0656
L	214+12.00	100.00	491909.2148	1886939.3395
L	224+05.00	100.00	491050.0581	1887440.9752
L	224+05.00	123.00	491038.2290	1887421.2503
L	224+25.00	131.00	491016.9089	1887424.7136
L	224+42.00	100.00	491018.2562	1887460.0669
L	224+94.00	-118.00	491086.0009	1887673.7028
L	224+94.00	-134.00	491094.2451	1887687.4153
L	225+15.00	-118.00	491068.0032	1887684.5232
L	225+15.00	-134.00	491076.2474	1887698.2358
L	225+76.00	100.00	490903.3975	1887529.1207
L	225+88.00	129.00	490878.1706	1887510.4498
L	226+26.00	122.00	490849.2101	1887536.0289
L	226+26.00	100.00	490860.5458	1887554.8837
L	229+15.00	-118.00	490725.1896	1887890.6272
L	229+25.00	-135.00	490725.3787	1887910.3493
L	229+43.00	-126.00	490705.3147	1887911.9107
L	229+43.00	-101.28	490692.5775	1887890.7248
L	230+32.00	130.00	490497.1322	1887738.3681

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 APRIL 2021 TO SEPTEMBER 2021.

REVISIONS

6/2/99

$$$$SYSTEM$$$$
$$$$USER$$$$
$$$$DGN$$$$
$$$$DATE$$$$
$$$$TIME$$$$

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02E-10

Location and Surveys

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333
formerly CALYX Engineers & Consultants

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-3281 LAND SURVEYOR ANDREW HEATH

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, C. ANDREW HEATH, JR., 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 day. 8/18/2021

DocuSigned by:
C. Andrew Heath Jr.
2CC014B3929747F...

Professional Land Surveyor L-3281 PLS # Seal

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	230+35.00	100.00	490510.0189	1887765.6249
L	230+53.00	140.00	490473.9819	1887740.6182
L	230+63.00	125.00	490473.1405	1887758.6263
L	231+89.00	100.00	490378.0357	1887844.9749
L	231+89.00	120.00	490367.7305	1887827.8343
L	232+26.00	120.00	490336.0202	1887846.8989
L	232+26.00	182.00	490304.0741	1887793.7628
L	232+68.00	182.00	490268.0787	1887815.4037
L	232+68.00	125.00	490297.4485	1887864.2546
L	232+68.00	100.00	490318.3300	1887885.6805
L	236+08.00	-100.00	490121.9904	1888232.2756
L	236+14.00	-135.00	490134.8823	1888265.3634
L	236+23.00	125.00	489993.2014	1888047.1718
L	236+35.00	-135.00	490116.8845	1888276.1838
L	236+40.00	-100.00	490094.5653	1888248.7639
L	237+20.00	145.00	489899.7639	1888080.0114
L	237+20.00	157.00	489893.5808	1888069.7270
L	237+55.00	170.00	489856.8862	1888076.6196
L	237+55.00	157.00	489863.5846	1888087.7611
L	237+65.00	157.00	489855.0143	1888092.9137
L	237+91.00	169.00	489826.5483	1888096.0260
L	237+91.00	152.00	489835.3077	1888110.5956
L	238+15.00	-100.00	489944.5843	1888338.9344
L	238+72.00	-125.00	489908.6149	1888389.7300
L	238+82.00	-100.00	489887.1630	1888373.4568
L	239+09.00	-100.00	489864.0231	1888387.3688
L	239+10.00	-132.00	489879.6544	1888415.3092
L	239+31.00	-135.00	489863.2025	1888428.7007
L	239+41.00	-100.00	489836.5980	1888403.8571
L	239+46.00	120.00	489718.9557	1888217.8859
L	241+96.00	120.00	489504.6972	1888346.7009
L	241+96.00	129.00	489500.0599	1888338.9876
L	242+02.00	520.00	489293.4511	1888006.9788
L	242+02.00	390.00	489360.4348	1888118.3933
L	242+22.00	138.00	489473.1507	1888344.6641
L	242+22.00	120.00	489482.4240	1888360.0916
L	242+48.00	520.00	489254.8144	1888030.1852
L	242+48.00	415.00	489308.7557	1888120.2703
L	242+77.00	-110.21	489553.2431	1888585.9701
L	242+91.00	-137.00	489554.4921	1888616.3523
L	242+92.00	134.41	489415.9656	1888382.9532
L	243+05.00	175.00	489384.6850	1888354.2401
L	243+13.00	-129.00	489530.7689	1888620.9583
L	243+14.00	280.00	489324.6206	1888267.7093
L	243+38.00	330.00	489281.1263	1888235.0389
L	243+61.00	170.00	489341.6533	1888384.5705
L	243+61.00	147.00	489352.8324	1888404.6710
L	243+97.00	152.00	489321.2670	1888416.1663
L	243+97.00	167.00	489314.2212	1888402.9241
L	244+70.00	182.00	489250.0412	1888418.3809
L	244+70.00	160.47	489259.1969	1888437.8685
L	245+36.00	165.00	489204.3569	1888457.0427
L	245+75.00	156.33	489175.6262	1888477.6668
L	262+25.00	-130.00	487691.0174	1889033.4725
L	264+40.00	-120.00	487526.2273	1889137.4218
L	264+40.00	-110.00	487519.8253	1889129.7397
L	265+00.00	-115.00	487481.7251	1889169.6094
L	266+00.00	-130.00	487427.5504	1889243.9641
L	266+20.00	-120.00	487407.8939	1889250.4414
L	266+20.00	-100.00	487393.1339	1889236.9454
L	271+78.21	-100.00	487100.0738	1889684.5100
L	271+95.00	125.00	486896.5821	1889587.0522
L	271+95.00	150.00	486874.9007	1889574.6056
L	272+56.00	100.00	486887.8939	1889652.4014
L	272+82.00	112.00	486864.5424	1889668.9757
L	274+85.00	113.00	486763.1366	1889841.5743
L	275+93.00	112.00	486709.1224	1889927.0752
L	277+04.00	112.00	486647.7210	1890008.0587
L	277+31.94	125.00	486621.3723	1890019.1245
L	278+09.00	135.00	486567.0963	1890063.6976
L	278+20.00	100.00	486585.1302	1890095.3255
L	278+59.00	-143.00	486727.5267	1890296.1488
L	278+62.00	-158.00	486735.4751	1890309.3008
L	278+75.00	120.00	486535.0445	1890116.2112
L	278+75.00	100.00	486548.7031	1890130.8208
L	278+78.00	-139.00	486709.5007	1890307.6664
L	278+81.00	-154.00	486717.2670	1890320.9245
L	279+40.00	100.00	486503.8063	1890170.7846
L	279+40.00	120.00	486490.8777	1890155.5251
L	282+39.00	100.79	486270.5903	1890331.5167
L	282+39.00	113.00	486264.2227	1890321.1043
L	282+59.00	-129.00	486373.2883	1890538.0560
L	282+59.00	-114.00	486365.4765	1890525.2507
L	282+60.00	113.00	486246.4073	1890331.9827
L	282+60.00	133.00	486235.9920	1890314.9087
L	282+80.00	133.00	486218.9248	1890325.3185

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	282+80.00	118.00	486226.7354	1890338.1245
L	283+04.00	-129.00	486334.8608	1890561.4939
L	283+04.00	-110.00	486324.9673	1890545.2730
L	283+25.00	-110.00	486307.0389	1890556.2078
L	283+25.00	-85.40	486294.2273	1890535.2025
L	283+40.00	-85.43	486281.4372	1890543.0391
L	283+70.00	100.00	486159.2720	1890400.3555
L	283+70.00	119.33	486149.2050	1890383.8500
L	284+15.00	100.00	486120.8540	1890423.7874
L	284+15.00	120.00	486110.4398	1890406.7127
L	284+50.00	-115.00	486202.9256	1890625.5651
L	284+80.00	-125.00	486182.5207	1890649.7237
L	284+80.00	-107.00	486173.1479	1890634.3565
L	284+80.00	-85.73	486162.0707	1890616.1946
L	284+95.00	-134.00	486174.4010	1890665.2179
L	285+20.00	-85.81	486127.9673	1890637.0984
L	285+20.00	-95.00	486132.7500	1890644.9400
L	285+20.00	-109.00	486140.0400	1890656.8923
L	285+50.00	-85.88	486102.3898	1890652.7763
L	289+12.00	-86.68	485793.7547	1890841.9560
L	289+12.00	-102.00	485801.7311	1890855.0339
L	289+16.00	-132.00	485813.9374	1890882.7288
L	289+20.00	118.00	485680.3453	1890671.3780
L	289+20.00	133.00	485672.5347	1890658.5720
L	289+37.00	-133.00	485796.5297	1890894.5174
L	289+42.00	133.00	485653.7525	1890670.0276
L	289+42.00	118.00	485661.5632	1890682.8336
L	289+43.00	-102.00	485775.2653	1890871.1759
L	289+43.00	-86.75	485767.3246	1890858.1565
L	290+70.00	-115.00	485673.6103	1890948.4044
L	290+70.00	-87.03	485659.0465	1890924.5262
L	290+86.00	-132.00	485668.8026	1890971.2493
L	290+90.00	120.00	485534.1690	1890758.1910
L	290+90.00	134.00	485526.8791	1890746.2387
L	291+12.00	120.00	485515.3869	1890769.6466
L	291+12.00	134.00	485508.0970	1890757.6943
L	291+12.00	-132.00	485646.6055	1890984.7877
L	291+17.00	-102.00	485626.7155	1890961.7792
L	291+17.00	-87.13	485618.9751	1890949.0882
L	292+93.00	120.00	485360.8245	1890863.9179
L	293+19.00	138.00	485328.9942	1890862.2952
L	293+39.00	133.00	485314.3681	1890877.1579
L	293+39.00	118.00	485322.2363	1890889.9286
L	294+78.00	118.00	485203.1008	1890964.3628
L	294+78.00	134.00	485194.5381	1890950.8469
L	294+99.00	120.00	485184.1098	1890974.0503
L	294+99.00	134.00	485176.5951	1890962.2380
L	297+92.00	-208.00	485119.6527	1891408.3029
L	297+92.00	-100.00	485059.2972	1891318.7417
L	297+93.00	120.00	484935.5126	1891136.8670
L	297+93.00	135.00	484927.1288	1891124.4287
L	298+14.00	120.00	484917.9220	1891148.7479
L	298+14.00	136.00	484908.9542	1891135.4973
L	298+28.00	-100.00	485029.7448	1891338.7269
L	298+28.00	-208.00	485090.3904	1891428.0919
L	302+44.37	125.00	484560.5638	1891394.0985
L	302+80.00	150.68	484517.0038	1891393.5901
L	302+90.00	205.00	484477.5586	1891354.9752
L	303+35.00	150.58	484472.7466	1891424.9711
L	303+45.00	195.00	484439.1715	1891394.2612
L	303+95.00	125.51	484438.5197	1891479.4504
L	304+00.00	-120.00	484574.3876	1891683.9949
L	304+00.00	-100.00	484562.9884	1891667.5614
L	306+51.00	100.00	484243.0292	1891642.6756
L	306+51.00	124.22	484229.6787	1891622.4679
L	307+56.00	100.00	484155.9418	1891699.6226
L	307+56.00	122.00	484143.9888	1891681.1530
L	308+43.00	-100.00	484190.7228	1891914.9331
L	308+50.00	-133.00	484202.4564	1891946.5773
L	308+55.00	118.00	484063.6963	1891737.3605
L	308+71.00	-133.00	484184.5072	1891957.9553
L	308+76.00	-100.00	484162.6014	1891932.7627
L	309+90.00	-140.00	484086.0695	1892027.7428
L	309+90.00	-100.00	484065.0494	1891993.7112
L	311+50.00	-100.00	483928.0642	1892077.4685
L	311+55.00	100.00	483819.6538	1891909.3251
L	311+55.00	118.00	483810.2811	1891893.9579
L	311+55.00	140.00	483798.8255	1891875.1757
L	311+65.00	-100.00	483915.2582	1892085.2791
L	311+95.00	-115.00	483897.4568	1892113.7064
L	312+20.00	100.00	483764.1611	1891943.1712
L	312+20.00	140.00	483743.3328	1891909.0218
L	312+20.00	118.00	483754.7883	1891927.8040
L	313+08.00	-100.00	483793.1742	1892159.7404
L	313+09.00	118.00	483678.8060	1891974.1470
L	313+09.00	133.00	483670.9954	1891961.3410

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	313+11.00	-115.00	483798.4236	1892174.1086
L	313+15.00	-140.00	483808.0264	1892197.5348
L	313+31.00	133.00	483652.2132	1891972.7966
L	313+31.00	118.00	483660.0238	1891985.6026
L	313+36.00	-140.00	483790.0980	1892208.4696
L	313+40.00	-115.00	483773.6653	1892189.2091
L	313+42.00	-100.00	483764.1472	1892177.4445
L	314+50.00	-115.00	483679.7545	1892246.4871
L	314+70.00	-100.00	483654.8692	1892244.0952
L	331+15.00	-100.00	482250.4760	1893100.6609
L	331+15.00	-124.00	482262.9730	1893121.1505
L	331+32.00	-124.00	482248.4595	1893130.0026
L	331+32.00	-100.00	482235.9625	1893109.5130
L	332+13.00	138.00	482042.8814	1892948.5015
L	332+13.00	118.00	482053.2956	1892965.5762
L	332+39.00	129.00	482025.3707	1892969.7236
L	332+39.00	118.00	482031.0985	1892979.1147
L	337+50.00	-151.00	481734.9108	1893474.8513
L	337+63.00	124.00	481580.6174	1893246.8436
L	337+95.00	-114.77	481677.6289	1893467.3548
L	338+50.00	145.00	481495.4076	1893274.2168
L	338+50.00	130.27	481503.0775	1893286.7921
L	338+50.00	145.00	481495.4076	1893274.2168
L	338+95.00	125.00	481467.4037	1893314.7234
L	338+95.00	120.54	481469.7258	1893318.5306
L	338+95.00	145.00	481456.9895	1893297.6487
L	338+95.00	145.00	481456.9895	1893297.6487
L	340+15.00	240.00	481305.0741	1893279.0289
L	340+15.00	125.00	481364.9556	1893377.2084
L	340+17.00	-100.00	481480.4075	1893570.3401
L	340+17.00	-123.00	481492.3838	1893589.9760
L	340+22.00	-138.00	481495.9258	1893605.3855
L	340+43.00	-138.00	481477.9974	1893616.3204
L	340+48.00	-123.00	481465.9181	1893606.1179
L	340+48.00	-100.00	481453.9418	1893586.4821
L	340+49.00	125.00	481335.9286	1893394.9125
L	340+49.00	207.00	481293.2305	1893324.9063
L	340+63.00	210.00	481279.7161	1893329.6350
L	340+63.00	240.00	481264.0948	1893304.0230
L	343+29.00	-100.00	481214.0424	1893732.8012
L	343+29.00	-145.00	481237.4743	1893771.2192
L	343+65.00	142.00	481057.2965	1893544.9429
L	343+65.00	125.00	481066.1485	1893559.4564
L	343+67.00	-145.00	481205.0324	1893791.0062
L	343+88.00	140.00	481038.7020	1893558.6267
L	343+88.00	125.00	481046.5126	1893571.4327
L	344+74.00	-100.00	481090.0581	1893808.3417
L	344+74.00	-133.00	481107.1895	1893836.5466
L	344+99.00	-133.00	481085.7471	1893849.5614
L	345+20.00	-100.00	481050.6302	1893832.2589
L	345+56.00	140.00	480895.5830	1893645.5639
L	345+56.00	125.00	480903.3437	1893658.4002
L	345+77.00	125.00	480885.4261	1893669.2265
L	345+77.00	140.00	480877.6722	1893656.3861
L	346+73.00	-100.00	480919.2921	1893911.4831
L	348+54.00	117.00	480652.6433	1893818.0262
L	353+63.00	117.00	480214.7557	1894074.5774
L	353+63.00	134.00	480206.2555	1894059.8551
L	353+89.00	132.00	480184.8091	1894074.5373
L	353+89.00	117.00	480192.3008	1894087.5324

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 APRIL 2021 TO SEPTEMBER 2021.

REVISIONS

6/2/99

$$$$SYSTIME$$$$
$$$$USERNAME$$$$

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02E-11

Location and Surveys

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333
formerly CALYX Engineers & Consultants

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-3281 LAND SURVEYOR C. ANDREW HEATH JR.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, C. ANDREW HEATH, JR., 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 day. 9/7/2021

DocuSigned by:
C. Andrew Heath Jr.
2CC014B3929747F...

---------- L-3281
Professional Land Surveyor PLS # Seal

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	357·86.00	117.00	479848.3241	1894285.6496
L	357·86.00	127.00	479843.3332	1894276.9841
L	358·05.00	133.00	479823.8742	1894281.2675
L	358·11.00	118.00	479826.1612	1894297.2603
L	358·35.00	112.00	479808.3586	1894314.4378
L	358·35.00	100.00	479814.3476	1894324.8364
L	358·47.00	-128.00	479917.7414	1894528.3990
L	358·66.00	-128.00	479901.2769	1894537.8817
L	358·79.00	-145.00	479898.4963	1894559.1012
L	359·00.00	-128.00	479871.8142	1894554.8507
L	359·00.00	-139.00	479877.3042	1894564.3828
L	362·65.00	-107.14	479485.7668	1894753.1181
L	362·65.00	-128.00	479496.1716	1894771.1987
L	365·93.00	-95.00	479187.6257	1894902.0267
L	365·93.00	-115.00	479196.7119	1894919.8435
L	367·85.00	-115.00	479020.7533	1895005.8753
L	367·85.00	-95.00	479012.2723	1894987.7625
L	370·00.00	-124.00	478823.9120	1895103.4062
L	370·87.00	-141.00	478748.1654	1895153.1683
L	370·87.00	-95.00	478730.8927	1895110.5344
L	370·87.00	-126.00	478742.5330	1895139.2660
L	371·07.00	-126.00	478723.5734	1895146.9086
L	371·07.00	-141.00	478729.1569	1895160.8306
L	376·46.00	-105.00	478197.3803	1895307.3756
L	376·46.00	-127.00	478203.6050	1895328.4766
L	392·85.00	193.00	476522.2330	1895311.4095
L	392·85.00	182.72	476524.0892	1895321.5236
L	393·15.00	182.75	476492.8317	1895327.3895
L	393·15.00	193.00	476490.8814	1895317.3232
L	402·55.00	-110.08	475699.6395	1895920.8711
L	402·55.00	-150.00	475718.7996	1895955.8951
L	406·75.00	-150.00	475382.8426	1896171.0718
L	407·60.00	-115.39	475297.2300	1896192.9594
L	418·35.00	-113.28	474471.5319	1896876.2024
L	419·20.00	-160.00	474436.1508	1896966.5129
L	420·25.00	-160.00	474355.4936	1897033.7394
L	420·90.00	-112.40	474275.0891	1897038.7939
L	425·80.00	-125.35	473906.9804	1897362.4661
L	446·31.00	124.72	472116.8589	1898388.1202
L	453·19.00	118.00	471545.7335	1898771.7933
L	453·19.00	105.00	471552.8770	1898782.6547
L	453·49.00	123.00	471517.9212	1898784.1008
L	460·10.00	123.00	470965.6602	1899147.3208
L	460·10.00	105.00	470975.5512	1899162.3597
L	460·85.00	105.00	470912.8892	1899203.5722
L	460·85.00	123.00	470902.9982	1899188.5334
L	463·20.00	123.00	470706.6573	1899317.6660
L	463·20.00	140.00	470697.3158	1899303.4627
L	463·45.00	123.00	470685.7700	1899331.4036
L	463·45.00	140.00	470676.4284	1899317.2002
L	466·13.00	123.00	470461.8578	1899478.6698
L	468·34.89	123.10	470276.4155	1899600.5201
L	468·35.00	105.00	470286.2693	1899615.6978
L	468·35.00	105.00	470286.2693	1899615.6978
L	471·22.00	105.00	470046.4827	1899773.4045
L	471·22.00	124.80	470035.6031	1899756.8625
L	471·80.00	105.00	469998.0241	1899805.2756
L	471·80.00	125.00	469987.0341	1899788.5657
L	471·80.00	105.00	469998.0241	1899805.2756
L	471·80.00	125.00	469987.0341	1899788.5657
L	477·15.00	125.00	469540.0452	1900082.5486
L	478·85.00	124.71	469397.1889	1900177.4382
L	479·05.00	190.00	469343.4876	1900134.9700
L	479·27.00	126.00	469360.8953	1900200.6018
L	479·27.00	141.00	469352.4002	1900188.2392
L	479·27.00	141.00	469352.4002	1900188.2392
L	479·27.00	126.00	469360.8953	1900200.6018
L	479·40.00	180.00	469319.2289	1900163.7338
L	479·48.00	141.00	469334.6375	1900200.4991
L	479·48.00	126.00	469343.1836	1900212.8265
L	479·48.00	141.00	469334.6375	1900200.4991
L	481·83.00	105.02	469161.2450	1900371.2338
L	481·83.00	123.00	469150.3296	1900356.9481
L	482·03.00	105.00	469145.0620	1900383.6764
L	482·03.00	121.00	469135.2978	1900371.0012
L	483·94.00	88.00	469003.9501	1900518.3464
L	486·29.00	-187.00	468998.7256	1900880.1519
L	486·29.00	-170.12	468987.9399	1900867.1700
L	486·34.00	-208.00	469008.2997	1900899.4997
L	486·53.00	-223.00	469003.2712	1900923.1791
L	486·93.00	-175.23	468941.9798	1900912.0008
L	488·61.00	88.00	468644.5409	1900816.8891
L	488·66.00	118.00	468621.5237	1900797.0093
L	488·97.00	123.00	468594.4842	1900812.9738
L	494·10.00	125.00	468198.6225	1901139.2659
L	494·27.00	138.00	468177.2391	1901140.1305
L	494·70.00	133.00	468147.3600	1901171.4553
L	496·65.00	133.00	467997.3721	1901296.0692
L	500·51.00	137.00	467697.9168	1901539.6641

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	500·51.00	160.00	467683.2187	1901521.9732
L	500·83.00	137.00	467673.3034	1901560.1135
L	500·83.00	160.00	467658.6053	1901542.4227
L	502·62.00	215.00	467485.7766	1901614.5075
L	502·80.00	124.00	467530.0847	1901696.0047
L	502·82.00	240.00	467454.4171	1901608.0592
L	503·52.00	123.00	467475.3436	1901742.7852
L	503·97.00	139.00	467430.5062	1901759.2355
L	504·25.00	123.00	467419.1942	1901789.4355
L	510·94.00	123.00	466905.7071	1902212.0497
L	514·81.00	139.00	466589.9728	1902421.8595
L	514·81.00	124.00	466598.4252	1902434.2513
L	515·03.00	123.00	466580.9539	1902447.3500
L	515·03.00	137.00	466573.0820	1902435.7807
L	516·63.00	134.00	466442.4835	1902528.0403
L	516·63.00	123.00	466448.6600	1902537.1425
L	516·95.00	141.00	466412.0738	1902540.2160
L	516·95.00	125.00	466421.0578	1902553.4556
L	518·20.00	105.00	466328.8533	1902640.1927
L	518·20.00	125.00	466317.6232	1902623.6432
L	518·75.00	105.00	466283.3421	1902671.0753
L	518·75.00	125.00	466272.1121	1902654.5257
L	521·83.00	123.00	466018.3724	1902829.1229
L	522·36.00	175.00	465945.3181	1902815.8537
L	522·65.56	145.00	465937.7066	1902857.2735
L	523·56.00	123.00	465875.2190	1902926.2626
L	526·62.00	123.00	465622.0113	1903098.0818
L	527·07.00	185.03	465549.9435	1903072.0188
L	528·42.82	123.00	465472.3900	1903199.6103
L	530·66.00	123.00	465287.7109	1903324.9281
L	530·66.00	140.00	465278.1654	1903310.8610
L	530·90.00	135.00	465261.1135	1903328.4744
L	530·90.00	123.00	465267.8515	1903338.4041
L	531·36.00	123.00	465229.7876	1903364.2332
L	531·36.00	133.00	465224.1725	1903355.9584
L	531·62.00	141.00	465198.1662	1903363.9376
L	531·62.00	123.00	465208.2732	1903378.8322
L	532·07.50	123.00	465170.6202	1903404.3824
L	533·94.00	124.00	465015.7372	1903508.2729
L	537·74.00	139.00	464692.8737	1903709.2311
L	537·74.00	124.00	464701.2962	1903721.6432
L	537·96.00	123.00	464683.6533	1903734.8237
L	537·96.00	139.00	464674.6692	1903721.5841
L	542·46.00	115.00	464315.7810	1903994.1188
L	542·54.00	132.00	464299.6156	1903984.5438
L	542·79.17	120.00	464285.5288	1904008.6046
L	544·08.00	-94.96	464299.6234	1904258.8201
L	544·08.00	-116.62	464311.7820	1904276.7381
L	544·36.00	-113.00	464286.5827	1904289.4686
L	544·36.00	-123.07	464292.2370	1904297.8012
L	545·25.00	144.44	464068.3855	1904126.4182
L	545·25.00	187.20	464044.3750	1904091.0341
L	545·70.00	187.23	464007.1194	1904116.2734
L	560·10.00	164.52	462828.3053	1904943.6264
L	560·10.00	180.00	462819.6154	1904930.8203
L	560·19.03	-113.00	462976.6605	1905178.3429
L	560·50.00	162.62	462796.2758	1904967.6626
L	563·04.00	-132.00	462751.5256	1905354.0741
L	563·04.00	-113.00	462740.8571	1905338.3520
L	563·25.00	-132.00	462734.1486	1905365.8656
L	563·25.00	-113.00	462723.4801	1905350.1435
L	565·16.00	-113.00	462565.4322	1905457.3902
L	565·23.00	-132.00	462570.3083	1905477.0427
L	565·58.01	-119.00	462534.0370	1905485.9450
L	567·08.00	145.00	462261.6895	1905351.7095
L	567·08.00	115.62	462278.1855	1905376.0194
L	567·38.00	145.00	462236.8652	1905368.5545
L	567·38.00	123.00	462249.2182	1905386.7590
L	569·75.00	123.00	462053.1064	1905519.8347
L	569·85.00	145.00	462032.4786	1905507.2452
L	570·04.00	102.92	462040.3842	1905552.7334
L	570·04.00	136.00	462021.8101	1905525.3610
L	571·37.56	-113.00	462051.1097	1905806.3941
L	571·46.00	-131.00	462054.2292	1905826.0303
L	571·65.00	-139.00	462042.9991	1905843.3186
L	571·73.00	-120.00	462025.7108	1905832.0885
L	573·90.00	-93.61	461831.3328	1905932.1006
L	573·90.00	-125.00	461848.9560	1905958.0716
L	574·50.00	104.61	461670.3817	1905801.7655
L	574·50.00	115.00	461664.5472	1905793.1673
L	574·64.00	125.00	461647.3475	1905792.7536
L	575·38.00	-145.00	461737.7195	1906057.7232
L	575·38.00	-130.00	461729.2970	1906045.3111
L	575·60.00	-145.00	461719.5150	1906070.0762
L	575·60.00	-130.00	461711.0925	1906057.6641
L	575·68.00	104.81	461572.6274	1905867.8575
L	575·68.00	115.00	461566.9050	1905859.4244
L	577·60.00	-93.86	461523.8214	1906140.2736
L	577·60.00	-115.00	461535.4381	1906157.9345

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	578·34.00	-110.00	461468.8204	1906194.9560
L	578·34.00	-116.38	461472.2310	1906200.3529
L	582·22.00	95.00	461029.7868	1906207.9144
L	582·22.00	116.00	461020.3634	1906189.1474
L	582·48.00	123.00	460994.6734	1906194.1214
L	582·71.00	136.00	460968.9762	1906192.2422
L	582·81.00	124.00	460965.5128	1906207.2599
L	606·92.00	-267.00	458893.1157	1907487.7166
L	606·92.00	-224.58	458877.0196	1907448.4636
L	607·00.00	137.00	458732.4353	1907116.9581
L	607·00.00	122.00	458738.1264	1907130.8366
L	607·18.00	-259.00	458866.0244	1907490.1792
L	607·18.00	-225.02	458853.1317	1907458.7381
L	607·22.00	137.00	458712.0802	1907125.3050
L	607·22.00	122.00	458717.7713	1907139.1835
L	609·50.00	127.00	458503.2025	1907222.3967
L	609·75.00	132.00	458477.2090	1907228.2438
L	610·26.68	131.00	458427.5918	1907251.8872
L	611·98.62	134.00	458260.9499	1907339.3703
L	613·00.00	138.00	458166.5613	1907399.2676
L	615·00.00	132.00	458004.2220	1907548.0049
L	616·00.00	135.00	457927.5525	1907626.9564
L	617·00.00	135.00	457859.3133	1907713.3902
L	618·30.00	-187.08	458058.0579	1907996.6206
L	618·33.00	-209.00	458075.6566	1908009.9380
L	618·58.00	-212.00	458067.7783	1908029.6797
L	618·86.00	-196.00	458042.3489	1908042.7878
L	618·86.00	-189.49	458036.6090	1908039.7193
L	618·92.00	151.00	457733.2057	1907885.0739
L	618·92.00	134.00	457748.2326	1907893.0233
L	619·13.00	148.00	457725.1973	1907906.9862
L	619·13.00	134.00	457737.6647	1907913.3552
L	621·89.49	132.00	457622.4549	1908174.4354
L	623·34.00	-270.00	457934.8804	1908465.7734
L	623·34.00	-190.03	457861.3931	1908434.2355
L	623·43.11	124.00	457569.2215	1908318.7612
L	623·60.00	-273.00	457927.3834	1908490.8492
L	623·73.00	-189.63	457845.6468	1908469.9176
L	623·79.00	123.00	457555.9866	1908352.1359
L	623·79.00	139.00	457541.2834	1908345.8258
L	624·02.00	123.00	457546.9159	1908373.2717
L	624·02.00	137.00	457534.0506	1908367.7504
L	626·96.00	138.00	457417.1848	1908637.5269
L	626·96.00	123.00	457430.9690	1908643.4426
L	627·17.00	138.00	457408.9029	1908656.8249
L	627·17.00	123.00	457422.6871	1908662.7405
L	634·53.00	124.00	457131.5066	1909338.6924
L	637·03.00	127.00	457030.1555	1909567.2464
L	638·76.00	-195.00	457257.8297	1909853.2140
L	638·76.00	-174.30	457238.8068	1909845.0501
L	639·12.00	-201.00	457249.1458	1909888.6624
L	639·12.00	-173.93	457224.2717	1909877.9874
L	639·45.00	144.00	456919.0941	1909782.9276
L	639·45.00	127.00	456934.7162	1909789.6320
L	639·70.00	127.00	456924.8568	1909812.6057
L	639·70.00	139.00	456913.8294	1909807.8732
L	643·60.00	-250.00	457117.5863	1910319.4779
L	643·85.00	-187.50	457050.5081	1910317.4338
L	644·04.00	126.00	456754.4342	1910212.6357
L	644·05.00	-265.00	457114.3679	1910365.3765
L	644·25.00	-192.71	457040.3420	1910354.9886
L	646·12.00	135.00	456668.4407	1910415.7678
L	646·12.00	151.00	456653.1732	1910410.9819
L	646·32.00	135.00	456662.0712	1910436.5557

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 APRIL 2021 TO SEPTEMBER 2021.

REVISIONS

9/7/2021 - REVISED PER DIVISION L&S COMMENTS

6/2/99

$$$$SYSTIME$$$$
$$$$CNS$$$$
$$$$FENAME$$$$

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02E-12

Location and Surveys

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333
formerly CALYX Engineers & Consultants

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-3281 LAND SURVEYOR C. ANDREW HEATH JR.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	646+32.00	151.00	456646.7433	1910431.9671
L	648+40.00	138.00	456608.9679	1910656.4005
L	648+40.00	123.00	456623.7842	1910658.7411
L	648+60.00	138.00	456605.7110	1910677.9118
L	648+67.49	123.00	456619.4195	1910688.0314
L	650+11.81	122.00	456604.3853	1910838.6712
L	650+78.00	123.00	456598.2391	1910905.5346
L	650+78.00	138.00	456583.2800	1910904.4278
L	650+99.00	123.00	456596.6909	1910926.4961
L	650+99.00	138.00	456581.7317	1910925.3916
L	656+34.00	164.00	456516.4092	1911457.0250
L	656+43.00	123.00	456556.6352	1911469.0194
L	656+67.00	123.00	456554.8681	1911492.9543
L	656+67.00	164.00	456513.9794	1911489.9354
L	665+65.00	105.00	456506.6978	1912389.8420
L	665+91.00	123.00	456486.8323	1912414.4461
L	666+25.00	105.00	456502.2799	1912449.6792
L	666+30.00	150.00	456457.0339	1912451.3521
L	666+55.00	123.00	456482.1198	1912478.2723
L	674+65.00	131.00	456413.7855	1913282.9088
L	674+65.00	146.00	456398.8501	1913281.5178
L	674+88.00	146.00	456396.7353	1913303.4659
L	674+88.00	131.00	456411.6613	1913304.9541
L	677+28.00	123.00	456388.6215	1913534.9949
L	679+59.00	148.00	456319.3920	1913747.2101
L	679+59.00	131.00	456335.9172	1913751.1997
L	679+83.00	145.00	456316.8360	1913770.2371
L	679+83.00	131.00	456330.4216	1913773.6179
L	681+89.00	-89.76	456487.4650	1914038.4140
L	681+94.00	-123.00	456517.6219	1914045.3051
L	682+10.00	123.00	456278.3390	1913986.0145
L	682+14.00	-124.00	456512.2853	1914065.3498
L	682+21.00	-89.01	456476.7710	1914061.4566
L	686+55.23	123.00	456134.7093	1914404.4206
L	688+03.00	-203.00	456394.4040	1914650.7330
L	688+03.00	-87.98	456285.7185	1914613.0936
L	688+08.00	123.00	456084.7171	1914548.7754
L	688+08.00	138.00	456070.5435	1914543.8669
L	688+08.00	-233.00	456421.1160	1914665.2751
L	688+29.00	-233.00	456414.2438	1914685.1188
L	688+29.00	138.00	456063.6714	1914563.7106
L	688+29.00	123.00	456077.8455	1914568.6193
L	688+34.00	-203.00	456384.2594	1914680.0261
L	688+34.00	-88.07	456275.6580	1914642.4159
L	692+14.00	124.00	455950.9109	1914932.0936
L	694+47.00	138.00	455860.2776	1915139.5147
L	694+47.00	124.00	455873.2467	1915144.7875
L	694+70.00	119.00	455869.6097	1915166.6891
L	694+70.00	138.00	455852.0905	1915159.3354
L	695+27.00	-95.69	456043.6701	1915304.5178
L	695+27.00	-112.00	456058.5223	1915311.2561
L	695+50.00	-112.00	456048.3607	1915333.3160
L	695+59.00	-132.00	456062.3941	1915350.4696
L	695+77.00	-115.00	456038.8092	1915360.3687
L	695+77.00	-124.00	456046.9096	1915364.2908
L	696+57.00	126.00	455787.8902	1915322.1396
L	696+57.00	105.00	455806.4102	1915332.0397
L	697+44.00	-120.00	455959.6074	1915518.4702
L	697+44.00	-135.00	455972.5159	1915526.1103
L	697+64.00	-136.00	455962.4053	1915544.9466
L	697+64.00	-121.00	455949.5738	1915537.1778
L	698+26.00	-121.00	455914.6539	1915592.8864
L	698+26.00	-129.00	455921.3656	1915597.2399
L	698+44.00	-139.00	455919.2067	1915618.7853
L	698+52.00	-122.00	455900.3310	1915616.4761
L	698+94.10	-118.00	455871.8680	1915651.0803
L	699+48.00	105.00	455659.2247	1915564.9030
L	699+76.00	140.00	455615.4545	1915564.9351
L	699+96.00	128.00	455613.5949	1915587.0423
L	700+32.24	-114.00	455780.9413	1915765.5314
L	700+74.00	-129.00	455764.3567	1915809.2607
L	700+74.00	-114.00	455752.8785	1915799.6042
L	700+94.00	-129.00	455750.5696	1915825.4834
L	700+94.00	-114.00	455739.1885	1915815.7126
L	702+41.00	-110.00	455632.0785	1915926.3373
L	703+90.00	-110.00	455525.3313	1916033.2544
L	703+90.00	-123.00	455534.4778	1916042.4924
L	704+09.00	139.00	455336.6390	1915869.6781
L	704+13.00	-125.00	455519.5407	1916060.0959
L	704+13.00	-110.00	455508.9871	1916049.4366
L	704+30.00	137.00	455323.1231	1915885.8744
L	704+33.00	105.00	455343.5057	1915910.7250
L	708+19.00	-138.00	455240.1756	1916354.9860
L	708+19.00	-91.19	455207.2443	1916321.7251
L	708+19.00	-110.00	455220.4755	1916335.0887
L	708+76.00	-91.20	455166.7456	1916361.8356

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	708+76.00	-110.00	455179.9702	1916375.1925
L	710+05.94	-110.00	455087.6326	1916466.6149
L	711+17.51	-110.00	455008.3478	1916545.1138
L	715+50.00	-91.02	454687.6560	1916835.9128
L	715+50.00	-110.00	454701.0125	1916849.4030
L	715+95.00	-125.00	454679.5883	1916891.7232
L	716+20.00	130.00	454482.4108	1916728.1046
L	716+20.00	105.00	454500.0002	1916745.8701
L	716+55.00	-125.00	454636.9511	1916933.9378
L	716+95.00	130.00	454429.1144	1916780.8729
L	716+95.00	105.00	454446.7038	1916798.6384
L	717+00.00	-91.08	454581.1112	1916941.4979
L	717+00.00	-110.00	454594.4196	1916954.9395
L	724+75.63	-110.00	454043.2445	1917500.6516
L	725+41.00	109.50	453842.3535	1917390.6662
L	725+41.00	135.00	453824.4123	1917372.5454
L	725+61.00	141.00	453805.9784	1917382.3532
L	725+77.00	105.00	453819.9372	1917419.1927
L	728+98.00	105.00	453591.8283	1917645.0408
L	728+98.00	131.00	453573.5354	1917626.5647
L	729+16.00	140.00	453554.4120	1917632.8335
L	729+36.00	123.00	453552.1604	1917658.9855
L	729+36.00	140.00	453540.1996	1917646.9050
L	736+51.00	138.00	453033.5137	1918151.3833
L	736+51.00	123.00	453044.0674	1918162.0426
L	736+72.00	123.00	453029.1444	1918176.8177
L	736+72.00	138.00	453018.5907	1918166.1584
L	738+94.00	134.00	452860.9583	1918334.8588
L	738+94.00	118.00	452872.9381	1918345.4646
L	739+14.00	133.00	452847.4188	1918351.8687
L	739+14.00	118.00	452858.7769	1918361.6663
L	741+30.00	118.00	452719.9164	1918549.2101
L	741+30.00	133.00	452707.2304	1918541.2060
L	741+50.00	133.00	452695.7071	1918559.7519
L	741+50.00	118.00	452708.5022	1918567.5803
L	743+47.00	125.00	452603.7890	1918752.5764
L	743+47.00	139.00	452591.0081	1918746.8626
L	743+67.00	140.00	452581.5004	1918765.9225
L	743+67.00	124.00	452596.1664	1918772.3186
L	748+29.00	124.00	452419.3947	1919199.6867
L	749+98.00	124.00	452351.9825	1919353.7409
L	750+36.00	124.00	452336.6961	1919388.5307
L	752+20.00	105.00	452280.0722	1919564.6293
L	752+20.00	124.00	452262.6774	1919556.9861
L	752+90.00	105.00	452251.9130	1919628.7156
L	752+90.00	124.00	452234.5181	1919621.0724
L	758+70.00	-190.82	452289.4189	1920278.7162
L	758+70.00	-203.00	452300.5730	1920283.6173
L	758+90.00	-224.00	452311.7534	1920310.3755
L	759+11.00	124.00	451984.7051	1920189.6095
L	759+11.00	-225.00	452304.2211	1920330.0036
L	759+11.00	139.00	451970.9723	1920183.5754
L	759+34.00	124.00	451975.4527	1920210.6664
L	759+34.00	137.00	451963.5510	1920205.4369
L	759+35.00	-191.59	452263.9815	1920338.5372
L	759+35.00	-207.00	452278.0871	1920344.7351
L	761+60.00	124.00	451884.4070	1920418.5674
L	761+60.00	139.00	451870.6277	1920412.6401
L	761+81.00	124.00	451875.9777	1920438.2514
L	761+81.00	139.00	451862.1788	1920432.3701
L	764+00.00	124.00	451792.0815	1920645.3623
L	764+00.00	138.00	451779.0130	1920640.3408
L	764+22.00	124.00	451784.0674	1920666.3322
L	764+22.00	138.00	451770.9809	1920661.3580
L	764+85.42	124.00	451761.3913	1920726.9416
L	765+57.59	123.00	451737.2983	1920796.5372
L	766+43.00	138.00	451694.5369	1920874.0452
L	766+43.00	123.00	451708.7428	1920878.8612
L	766+63.00	123.00	451702.2233	1920898.1966
L	766+63.00	138.00	451688.0017	1920893.4274
L	768+79.00	123.00	451635.8858	1921108.3361
L	773+40.00	123.00	451509.0196	1921552.9532
L	777+81.00	118.00	451393.2649	1921978.5197
L	777+81.00	152.00	451360.5602	1921969.2245
L	778+12.00	152.00	451352.0852	1921999.0435
L	778+12.00	118.00	451384.7899	1922008.3387
L	783+50.00	-90.59	451438.3484	1922582.8684
L	783+57.00	-124.00	451468.5740	1922598.7362
L	783+65.00	110.00	451241.3014	1922542.4586
L	783+78.00	-124.00	451462.8329	1922618.9362
L	783+83.00	-90.58	451429.3222	1922614.6099
L	787+44.00	140.00	451108.8302	1922898.8185
L	787+44.00	123.00	451125.1825	1922903.4661
L	787+71.67	135.00	451106.0760	1922926.7981
L	789+23.00	123.00	451076.2460	1923075.6469
L	789+52.00	-140.00	451321.2985	1923175.4432

I, C. ANDREW HEATH, JR., 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 day. 9/7/2021

DocuSigned by:
C. Andrew Heath Jr.
2C0148392974 7F...

---------- L-3281
Professional Land Surveyor PLS # Seal

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	789+52.00	-161.00	451341.4985	1923181.1843
L	789+68.00	-90.50	451269.3112	1923177.3012
L	789+73.00	123.00	451062.5766	1923123.7420
L	789+73.00	138.00	451048.1481	1923119.6412
L	789+95.00	138.00	451042.1335	1923140.8031
L	789+95.00	123.00	451056.5621	1923144.9039
L	790+13.00	-90.49	451257.0027	1923220.5852
L	790+18.00	-168.38	451330.5563	1923246.6883
L	793+95.00	123.00	450947.2068	1923529.6654
L	795+70.55	123.00	450899.2143	1923698.5247
L	796+07.00	123.00	450889.2485	1923733.5890
L	796+28.00	123.00	450883.5074	1923753.7890
L	796+40.00	105.00	450897.5410	1923770.2529
L	796+48.00	-122.00	451113.7060	1923840.0072
L	796+48.00	-90.41	451083.3155	1923831.3698
L	796+69.00	-125.00	451110.8506	1923861.0274
L	796+78.00	140.00	450853.4856	1923797.2366
L	796+78.00	123.00	450869.8379	1923801.8842
L	796+80.00	-90.40	451074.5628	1923862.1494
L	797+00.00	137.00	450850.3567	1923819.2187
L	797+00.00	123.00	450863.8234	1923823.0461
L	798+54.00	-90.38	451026.9698	1924029.5140
L	798+54.00	-105.00	451041.0357	1924033.5118
L	799+47.00	-274.00	451178.1723	1924169.1714
L	799+48.00	-105.00	451015.3372	1924123.9307
L	799+54.00	138.00	450779.9542	1924063.2688
L	799+54.00	123.00	450794.3828	1924067.3697
L	799+76.00	138.00	450773.9397	1924084.4307
L	799+76.00	123.00	450788.3683	1924088.5315
L	799+77.00	-274.00	451169.9707	1924198.0286
L	799+79.00	-90.36	450992.7794	1924149.7472
L	806+25.00	105.00	450628.2536	1924717.7281
L	806+25.00	123.00	450610.9393	1924712.8071
L	806+40.00	-90.27	450811.9807	1924785.5403
L	806+40.00	-100.00	450821.3430	1924788.2012
L	806+60.00	-90.26	450806.5102	1924804.7776
L	806+60.00	-100.00	450815.8753	1924807.4393
L	808+05.00	105.00	450579.0437	1924890.8708
L	808+05.00	123.00	450561.7294	1924885.9498
L	808+10.00	-225.00	450895.1050	1924985.8984
L	808+30.00	-112.44	450781.3644	1924974.3636
L	808+40.00	-230.00	450891.7129	1925016.1224
L	808+40.00	123.00	450552.1608	1924919.6164
L	808+40.00	138.00	450537.7323	1924915.5156
L	808+61.00	138.00	450531.9911	1924935.7156
L	808+61.00	123.00	450546.4197	1924939.8164
L	808+62.00	-117.12	450777.1205	1925006.4248
L	809+09.00	123.00	450533.2970	1924985.9878
L	810+80.00	120.25	450489.1943	1925151.2255
L	810+90.00	123.00	450483.8138	1925160.0923
L	810+95.00	140.00	450466.0945	1925160.2543

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 APRIL 2021 TO SEPTEMBER 2021.

REVISIONS

9/7/2021 - REVISED PER DIVISION L&S COMMENTS

6/2/99

$$$$SYTNE$$$$
$$$$ENGN$$$$
$$$$ERAOE$$$$

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02E-13

Location and Surveys

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333
formerly GALYN Engineers & Consultants

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-3281 LAND SURVEYOR ANDREW HEATH JR.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, C. ANDREW HEATH, JR., 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 day. 9/7/2021

DocuSigned by:
C. Andrew Heath Jr.
2CC014B392974FF...

---------- L-3281
Professional Land Surveyor PLS # Seal

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	811+16.00	140.00	450460.3378	1925180.5126
L	811+16.00	125.00	450474.7681	1925184.6072
L	812+55.00	123.61	450438.5873	1925320.4335
L	812+55.00	90.00	450471.0330	1925329.2025
L	817+89.00	111.00	450322.6195	1925847.5665
L	817+89.00	128.00	450306.0140	1925843.9254
L	818+13.00	111.00	450317.4534	1925871.2495
L	818+13.00	124.00	450304.7491	1925868.4927
L	818+72.00	111.00	450304.9712	1925929.5175
L	818+82.00	135.00	450279.4009	1925934.4562
L	818+94.00	111.00	450300.3961	1925951.2614
L	819+01.00	126.00	450284.2658	1925955.1171
L	820+17.00	-113.00	450495.3530	1926116.4654
L	820+22.00	-86.00	450467.9074	1926116.0932
L	820+35.00	-123.00	450501.7224	1926135.8711
L	820+47.00	-104.00	450480.7959	1926143.8804
L	821+57.00	116.00	450244.1288	1926210.9659
L	821+95.00	141.00	450212.6180	1926244.2780
L	822+16.00	-172.00	450516.9342	1926320.4377
L	822+18.00	-151.00	450495.9158	1926318.6740

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L2B	825+52.00	-102.00	450336.5138	1926637.0306
L2B	825+89.00	-161.00	450383.2979	1926688.6179
L2B	825+91.00	-192.00	450412.5997	1926698.9333
L2B	825+94.00	-89.00	450312.6318	1926673.9447
L2B	826+03.00	47.24	450179.0375	1926645.7350
L2B	826+09.98	79.68	450145.9208	1926643.6739
L2B	826+12.00	-193.00	450407.8788	1926719.4202
L2B	826+19.00	-163.00	450377.1039	1926718.0396
L2B	826+25.00	-82.00	450297.5030	1926701.8932
L2B	826+31.00	47.33	450171.3789	1926672.6673
L2B	826+31.00	78.00	450141.8506	1926664.3657
L2B	830+07.00	-95.00	450206.6306	1927073.1549
L2B	830+07.00	-81.00	450193.1531	1927069.3658
L2B	830+25.00	48.50	450063.6103	1927051.6440
L2B	830+31.00	-98.00	450203.0231	1927097.0711
L2B	830+31.00	-81.00	450186.6576	1927092.4701
L2B	830+37.00	85.00	450025.2291	1927053.3187
L2B	830+54.00	62.00	450042.7697	1927075.9092
L2B	830+57.00	82.00	450022.7041	1927073.3842
L2B	830+72.00	48.64	450050.7547	1927096.8519
L2B	830+74.00	57.00	450042.1701	1927096.5160
L2B	831+78.00	98.00	449974.5530	1927185.5380
L2B	832+00.00	49.03	450015.7436	1927219.9712
L2B	832+05.00	110.00	449955.6934	1927208.2826
L2B	832+34.00	49.13	450006.4437	1927252.6748
L2B	832+64.00	-81.00	450123.5968	1927316.7742
L2B	832+69.00	-98.00	450138.6091	1927326.1886
L2B	832+89.00	-92.00	450127.4201	1927343.8183
L2B	832+89.00	-81.00	450116.8306	1927340.8412
L2B	835+79.00	-82.00	450037.9312	1927622.2165
L2B	835+79.00	-98.00	450053.2103	1927626.9651
L2B	836+00.00	-98.00	450046.5773	1927647.9326
L2B	836+00.00	-82.00	450031.3471	1927643.0297
L2B	838+73.00	-56.00	449898.5494	1927896.1901
L2B	838+80.00	-73.00	449910.0566	1927910.6977
L2B	838+98.00	-50.07	449880.8937	1927916.1761
L2B	838+98.00	-65.00	449893.9311	1927923.4486

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
DR1	11+91.00	-19.00	500706.7672	1872495.0798
DR1	12+22.00	-36.00	500739.2958	1872521.8537
DR1	12+27.00	-32.00	500737.4655	1872529.3020

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
DR1B	12+01.00	-30.00	501308.1627	1876819.0438
DR1B	12+01.00	-52.00	501295.9903	1876800.7180
DR1B	12+14.00	-58.00	501310.4697	1876785.4981

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
DR1C	12+21.00	79.99	501663.8248	1877062.0126
DR1C	12+57.00	-45.00	501681.9529	1876932.8089
DR1C	12+68.00	-60.00	501686.7204	1876916.1086
DR1C	12+81.00	-38.00	501703.2264	1876934.0556
DR1C	12+90.00	-47.00	501707.3138	1876923.0665
DR1C	13+06.00	-27.22	501727.4741	1876936.1807
DR1C	13+45.00	54.00	501802.0075	1876987.9851
DR1C	13+51.00	29.15	501794.1646	1876963.3990
DR1C	13+61.00	60.00	501821.5062	1876981.8748
DR1C	13+72.00	28.60	501812.2201	1876949.5122

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
DR1D	11+46.00	20.00	500820.6060	1873683.0368
DR1D	11+71.00	32.00	500816.0844	1873710.3965
DR1D	11+71.00	50.00	500798.8042	1873715.4356
DR1D	11+91.00	55.00	500799.6030	1873736.0356
DR1D	11+95.00	38.00	500817.0431	1873735.1166
DR1D	13+50.00	28.00	500856.3778	1873875.5184
DR1D	13+50.00	20.00	500864.3777	1873875.5588

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
DR2B	11+96.23	8.17	495813.2136	1884978.7816
DR2B	11+69.74	19.40	495790.7150	1884958.1494
DR2B	11+75.36	39.40	495774.7946	1884971.8804
DR2B	12+05.18	37.20	495793.6129	1885002.4125

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
DR3	12+35.00	-10.00	489352.6050	1888352.8824

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
SR2	11+03.00	-31.00	501270.0075	1877368.3939
SR2	11+05.00	-53.00	501248.1651	1877365.0912
SR2	11+21.45	-22.00	501280.0872	1877350.5097
SR2	11+22.46	-31.00	501271.1629	1877348.9699
SR2	11+24.00	-53.00	501249.2932	1877346.1247
SR2	11+38.00	-146.00	501157.2885	1877326.6275
SR2	11+41.00	-124.00	501179.4279	1877324.9390
SR2	11+48.00	-60.02	501243.7135	1877321.7465
SR2	11+61.00	-118.00	501186.6048	1877305.3306
SR2	11+68.00	-150.00	501155.0769	1877296.4429
SR2	11+72.00	-120.00	501185.2614	1877294.2312
SR2	11+90.00	-41.22	501264.9691	1877280.9404
SR2	12+45.00	-75.00	501234.5164	1877224.0319
SR2	12+47.00	-60.00	501249.6087	1877222.9261
SR2	12+68.00	-80.00	501230.8909	1877200.7756
SR2	12+71.00	-63.00	501248.0390	1877198.7903
SR2	14+38.00	-72.00	501256.8908	1877008.9757
SR2	14+38.00	-90.00	501240.2355	1877002.1492
SR2	14+48.00	-99.00	501245.8825	1876972.4721
SR2	14+48.00	-81.00	501260.8496	1876982.4713

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y1	11+89.00	62.00	500976.1011	1872047.2083
Y1	11+89.00	44.26	500962.8917	1872035.3652
Y1	12+11.00	62.00	500990.7872	1872030.8278
Y1	12+11.00	28.07	500965.5219	1872008.1760
Y1	12+13.00	-45.00	500912.4537	1871957.9110
Y1	14+25.00	-37.00	501070.7601	1871806.0504
Y1	14+25.00	-48.00	501064.1700	1871797.2430

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y2	18+68.12	-60.35	501032.5076	1872768.2799
Y2	18+95.00	75.00	501042.2235	1872905.8348
Y2	20+10.00	74.00	501140.1112	1872928.9142
Y2	20+10.00	58.00	501145.4059	1872913.8156
Y2	20+37.00	51.00	501170.8436	1872915.9070
Y2	20+37.00	67.00	501164.8751	1872930.7521
Y2	21+00.00	25.00	501237.0032	1872916.9389
Y2	21+45.00	-25.01	501298.7399	1872890.2206
Y2	21+65.00	-35.00	501321.0855	1872889.4634
Y2	21+65.00	-54.00	501328.9986	1872872.1897
Y2	21+87.00	-54.00	501348.9998	1872881.3523
Y2	21+87.00	-35.00	501341.0866	1872898.6260
Y2	22+33.00	-25.01	501378.7470	1872926.8658
Y2	23+48.00	24.98	501462.4777	1873020.2115
Y2	23+48.00	50.00	501452.0581	1873042.9567
Y2	23+72.00	24.98	501484.2978	1873030.2057
Y2	23+72.00	50.00	501473.8775	1873052.9522

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y2A	14+48.73	94.61	500691.1465	1872715.3874

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y3	10+00.00	25.00	500484.7078	1873565.6508
Y3	10+78.00	66.00	500561.0544	1873593.7951
Y3	10+78.00	79.00	500562.2213	1873606.7427
Y3	11+11.00	95.00	500589.9423	1873621.2369
Y3	11+11.00	75.00	500589.5490	1873601.2408
Y3	12+22.00	85.00	500693.9055	1873616.2076
Y3	12+22.00	104.00	500692.7828	1873635.1744
Y3	12+50.00	70.12	500722.7355	1873603.0122
Y3	12+50.00	96.00	500721.2066	1873628.8428
Y3	13+50.00	-68.08	500830.4927	1873470.9211
Y3	13+68.00	-111.00	500850.3212	1873428.9984
Y3	13+68.00	-85.00	500848.9998	1873454.9648
Y3	16+54.02	-45.00	501129.4566	1873498.4740
Y3	16+68.00	80.00	501146.9317	1873623.0403
Y3	16+91.00	74.00	501171.6838	1873616.1283
Y3	17+38.00	-80.00	501199.9415	1873458.0195
Y3	17+38.00	-45.00	501206.1852	1873492.4581
Y3	17+40.00	69.00	501228.8459	1873604.2018
Y3	17+40.00	52.00	501225.7252	1873587.4907
Y3	17+61.00	60.00	501250.9609	1873590.2331
Y3	17+67.00	-45.00	501231.1425	1873486.9424
Y3	17+67.00	-78.00	501222.7972	1873455.0150
Y3	19+41.00	-50.00	501377.5497	1873414.5650
Y3	19+41.00	-20.00	501391.3985	1873441.1772
Y3	19+66.00	-50.00	501399.7266	1873403.0243
Y3	19+66.00	-20.00	501413.5754	1873429.6365

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y4	11+25.00	-76.00	501285.3882	1874311.7620
Y4	11+30.00	-91.00	501283.1677	1874296.4469
Y4	11+50.00	-70.00	501305.8925	1874309.1479
Y4	11+56.00	-85.00	501303.3355	1874293.6474
Y4	11+89.00	-55.00	501341.1417	1874306.4979
Y4	13+00.00	64.00	501502.8891	1874319.9126
Y4	13+10.00	77.00	501520.5397	1874318.5873
Y4	13+23.00	64.00	501519.4054	1874298.3002
Y4	13+41.00	45.00	501515.3058	1874270.4323
Y4	15+00.00	-50.00	501512.4417	1874083.4360
Y4	15+25.00	-51.00	501523.8603	1874061.1735
Y4	15+25.00	-24.70	501546.7632	1874074.1020

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 APRIL 2021 TO SEPTEMBER 2021.

REVISIONS

9/7/2021 - REVISED PER DIVISION L&S COMMENTS

6/2/99

$$$$SYSTIME$$$$
$$$$SZWEL$$$$
$$$$SGNAME$$$$

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02E-14

Location and Surveys

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333
formerly CALYX Engineers & Consultants

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-3281 LAND SURVEYOR C. ANDREW HEATH, JR.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, C. ANDREW HEATH, JR., 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 day. 8/18/2021

DocuSigned by:
C. Andrew Heath Jr.
2CC014B39297 4FF...

---------- L-3281
Professional Land Surveyor PLS # Seal

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y4A	10+20.00	-30.00	500882.2079	1874325.4541
Y4A	10+20.00	-19.74	500878.7547	1874335.1111
Y4A	11+25.00	35.00	500959.1906	1874422.0132
Y4A	11+85.00	47.00	501012.1399	1874453.6725
Y4A	11+85.00	-48.35	501043.2560	1874363.5381
Y4A	11+85.00	-60.00	501047.0563	1874352.5298
Y4A	11+98.00	67.00	501021.3279	1874477.5493
Y4A	11+99.00	50.00	501027.1864	1874461.5431
Y4A	12+10.00	35.00	501043.4153	1874450.2682
Y4A	12+16.00	69.00	501043.0550	1874485.0278
Y4A	12+16.00	51.00	501046.7792	1874467.4173
Y4A	12+31.00	57.00	501063.6627	1874476.5559
Y4A	12+37.00	37.85	501073.3383	1874458.5567

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y4B	11+94.00	-30.00	501428.5513	1874531.4606
Y4B	12+27.00	35.34	501405.0263	1874600.6827

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y5A	10+13.00	-37.00	501012.9949	1874791.7609
Y5A	10+13.00	-16.16	501006.3183	1874811.4980
Y5A	10+67.00	-18.38	501058.1809	1874826.7028
Y5A	11+75.00	50.00	501138.5747	1874926.0841
Y5A	12+10.00	58.61	501178.1563	1874945.9720

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y5B	10+13.00	45.00	501062.9798	1875249.9545
Y5B	10+13.00	20.19	501069.5897	1875226.0418
Y5B	10+73.00	-40.73	501143.6520	1875183.3084
Y5B	10+73.00	-29.16	501140.5698	1875194.4586
Y5B	10+92.00	-53.00	501165.2342	1875176.5444

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y5C	10+09.00	-19.90	501669.4636	1875274.1950
Y5C	10+09.00	-51.00	501699.4894	1875282.2876
Y5C	10+37.00	-43.00	501684.4785	1875307.2410
Y5C	10+37.00	-19.97	501662.2408	1875301.2475
Y5C	11+38.00	91.00	501528.8118	1875369.8898
Y5C	11+38.00	72.00	501547.1571	1875374.8342
Y5C	11+59.00	91.00	501523.3469	1875390.1662
Y5C	11+59.00	72.00	501541.6922	1875395.1107
Y5C	12+63.00	-64.00	501632.9772	1875542.8893
Y5C	12+70.00	-50.00	501616.5566	1875543.3503
Y5C	12+78.00	-75.00	501632.5839	1875564.9826
Y5C	12+85.00	-60.00	501615.1685	1875564.1535
Y5C	14+35.00	45.00	501433.6532	1875580.7977

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y5D	11+20.00	-38.01	501577.1947	1875686.1059
Y5D	12+09.70	-38.00	501553.8468	1875772.7104

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y6	12+66.00	30.38	501068.3198	1876431.7234
Y6	12+66.00	65.00	501063.1723	1876465.9558
Y6	12+86.00	65.00	501084.5165	1876468.9059
Y6	13+30.00	50.00	501132.7775	1876458.6426
Y6	14+00.00	-50.00	501205.8588	1876360.9751
Y6	14+72.00	87.00	501286.5871	1876493.7494
Y6	14+72.00	72.00	501285.1495	1876478.8185
Y6	14+85.00	-70.88	501283.2945	1876335.3628

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y6A	11+12.00	-68.00	501502.1995	1876316.1710
Y6A	11+34.00	53.45	501524.8266	1876437.5011
Y6A	11+34.00	79.00	501524.9587	1876463.0554
Y6A	12+19.00	-68.00	501609.1980	1876315.6182
Y6A	12+19.00	-86.00	501609.1050	1876297.6184
Y6A	12+43.00	-60.00	501633.2391	1876323.4941
Y6A	12+43.00	-79.00	501633.1409	1876304.4943
Y6A	12+94.00	-30.00	501684.3934	1876353.2302
Y6A	13+50.00	57.00	501740.8421	1876439.9397
Y6A	13+57.00	30.00	501747.7025	1876412.9038
Y6A	13+66.00	62.00	501756.8678	1876444.8569
Y6A	13+72.00	30.00	501762.7023	1876412.8263

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y7	11+50.00	85.00	497824.2608	1883798.7169
Y7	11+50.00	66.62	497828.2091	1883780.7706
Y7	11+60.00	115.00	497832.3228	1883830.8927
Y7	11+60.00	95.00	497835.8029	1883811.1978
Y7	11+85.00	120.00	497859.5742	1883840.1064
Y7	11+90.00	85.00	497869.6184	1883806.2078
Y7	12+35.00	-86.45	497939.1082	1883643.1446
Y7	12+47.00	-100.00	497952.9544	1883631.4820
Y7	12+57.00	-120.00	497965.7607	1883613.1517
Y7	17+60.00	54.90	498437.9245	1883859.4445
Y7	17+60.00	85.00	498433.5406	1883889.2239
Y7	19+07.00	30.15	498586.9612	1883856.3718

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y8	10+05.00	-29.78	496786.3973	1883600.8962
Y8	10+22.00	-56.00	496813.1453	1883584.7415
Y8	10+43.00	-79.00	496842.0846	1883573.2301
Y8	10+60.00	-45.00	496842.5186	1883611.2407
Y8	10+60.00	-68.00	496852.5690	1883590.5528
Y8	10+69.00	65.00	496802.5469	1883714.1157
Y8	10+69.00	80.00	496795.9923	1883727.6078
Y8	10+90.00	-60.00	496876.0575	1883610.8578
Y8	10+90.00	-45.00	496869.5029	1883624.3499
Y8	10+91.00	80.00	496815.7808	1883737.2212
Y8	10+91.00	65.00	496822.3354	1883723.7291
Y8	11+30.00	-45.00	496905.4819	1883641.8288
Y8	11+30.00	-60.00	496912.0365	1883628.3367
Y8	13+18.00	70.00	497024.3313	1883827.4193
Y8	13+18.00	85.00	497017.7767	1883840.9114
Y8	13+41.00	62.00	497048.5150	1883830.2739
Y8	13+41.00	81.00	497040.2125	1883847.3639
Y8	13+70.00	48.50	497080.5005	1883830.7998
Y8	14+85.00	-45.00	497227.3557	1883800.8916

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y9A	11+71.00	-149.00	489412.8956	1888764.0600
Y9A	11+82.00	-118.28	489384.5825	1888780.2872
Y9A	11+88.00	-153.00	489419.8204	1888780.0928
Y9A	11+97.00	-134.00	489402.6973	1888792.2911

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y9D	15+50.00	-60.00	487601.3764	1888328.0248
Y9D	18+00.00	-70.00	487515.4185	1888570.6508
Y9D	19+00.00	-80.00	487503.3420	1888656.3670

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y9E	12+42.00	138.00	487796.0895	1889142.7680
Y9E	12+55.00	55.14	487855.9480	1889084.9559
Y9E	12+71.00	156.00	487792.8171	1889164.0940
Y9E	13+25.00	102.47	487850.7479	1889151.6830
Y9E	13+64.00	106.08	487858.0405	1889173.4897
Y9E	14+21.00	-30.00	488004.4550	1889174.1124
Y9E	14+35.00	-56.00	488033.7673	1889177.6886
Y9E	14+54.00	-30.00	488016.4663	1889204.8488
Y9E	14+54.00	-45.00	488030.4375	1889199.3891

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y9F	11+43.00	139.00	486931.9276	1890166.8858
Y9F	11+49.00	151.00	486940.7946	1890179.3446
Y9F	11+55.00	126.00	486950.7674	1890154.5982
Y9F	11+60.00	139.00	486958.3640	1890167.6287
Y9F	13+00.00	50.00	487116.2004	1890032.3569
Y9F	13+31.00	-70.00	487080.0860	1889913.7980
Y9F	13+31.00	-50.00	487090.5144	1889930.8649
Y9F	13+54.00	-70.00	487099.7121	1889901.8058
Y9F	13+54.00	-50.00	487110.1394	1889918.8708
Y9F	14+67.72	-50.01	487207.1739	1889859.5666
Y9F	19+96.00	-68.00	487648.5807	1889568.7723
Y9F	19+99.00	-92.00	487638.6270	1889546.7286
Y9F	20+20.00	-55.42	487675.6198	1889566.9940
Y9F	20+48.00	-67.88	487693.0156	1889541.7620

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y10	12+92.00	-64.00	480607.3069	1893534.7943
Y10	13+04.00	-29.85	480586.9518	1893564.7205
Y10	13+08.00	-76.00	480626.4617	1893540.5469
Y10	13+19.00	-62.00	480621.7250	1893557.7098
Y10	13+95.00	-29.81	480640.9358	1893637.9785
Y10	14+60.00	30.27	480631.1677	1893725.9544
Y10	15+55.00	-41.19	480745.0740	1893759.9818
Y10	19+08.00	39.24	480892.0983	1894090.6661
Y10	19+10.00	65.00	480872.7350	1894107.7659
Y10	19+30.00	72.00	480879.1835	1894127.9505

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y11A	10+15.00	-0.10	478094.2247	1894969.3906
Y11A	10+15.00	-28.00	478121.9826	1894966.5322
Y11A	11+08.00	-54.52	478158.6637	1895054.4557
Y11A	11+16.00	-12.76	478118.3721	1895067.9512

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y11B	11+40.00	35.03	475819.3505	1895902.9317
Y11B	11+53.00	-67.07	475900.1352	1895839.1600
Y11B	11+93.00	-43.93	475912.4853	1895883.6865
Y11B	13+25.00	-17.22	475987.9975	1895995.2007
Y11B	13+25.00	-40.00	476003.9502	1895978.9422

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y11D	10+00.00	-33.07	475323.1841	1895344.6350
Y11D	10+88.00	-60.00	475412.1030	1895381.0791
Y11D	10+88.00	-44.00	475401.3898	1895392.9631
Y11D	11+07.00	-45.00	475417.1746	1895406.3760
Y11D	11+07.00	-61.00	475428.3315	1895394.9076
Y11D	13+93.00	-101.00	475630.4833	1895627.5048
Y11D	13+93.00	-118.00	475645.3442	1895619.2494
Y11D	14+24.00	-120.22	475662.3359	1895645.2724

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y11E	11+70.00	50.00	473948.7504	1897392.5812

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y14	10+77.00	-66.00	472081.5991	1898027.0434
Y14	10+77.00	-30.00	472045.6167	1898028.1697
Y14	10+95.00	-63.00	472079.1637	1898045.1285
Y14	12+26.00	85.00	471935.3347	1898180.6947
Y14	12+26.00	71.20	471949.1273	1898180.2630
Y14	12+50.00	80.00	471941.0831	1898204.5265
Y14	12+65.00	71.53	471950.0155	1898219.2543
Y14	13+65.00	90.00	471934.6859	1898319.7831
Y14	13+65.00	72.38	471952.2930	1898319.2320
Y14	13+84.00	98.00	471927.2843	1898339.0241
Y14	13+95.00	72.64	471952.9763	1898349.2253
Y14	14+05.00	-70.00	472095.8591	1898354.7577

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 APRIL 2021 TO SEPTEMBER 2021.

REVISIONS

6/2/99

$$$$SYSTIME$$$$
$$$$USER$$$$
$$$$PROJNAME$$$$

6/2/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW02E-15

Location and Surveys

NV5
NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333
formerly CALYX Engineers & Consultants

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-3281 LAND SURVEYOR C. ANDREW HEATH, JR.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

RIGHT OF WAY CONTROL SHEET

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y15	11·98.00	-30.01	470201.7651	1899357.7718
Y15	11·98.00	-50.00	470213.3324	1899341.4636
Y15	12·30.96	-50.00	470240.2180	1899360.5334
Y15	12·79.00	50.00	470221.5465	1899469.8907
Y15	12·79.00	30.00	470233.1191	1899453.5751
Y15	12·91.00	-56.00	470292.6581	1899390.3728
Y15	14·20.00	49.05	470328.9316	1899549.3382
Y15	14·20.00	-60.00	470404.4610	1899470.6817
Y15	14·28.60	83.19	470310.0767	1899578.6662

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y16	13·45.00	25.22	464702.9140	1903569.4325
Y16	13·45.00	38.00	464710.7744	1903579.5144
Y16	14·50.00	53.00	464801.2057	1903521.4556
Y16	17·28.00	53.00	465013.6082	1903474.9407

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y17	11·75.86	-40.00	465310.8979	1903671.7857
Y17	12·02.00	-30.54	465316.8945	1903698.9294
Y17	13·41.00	60.00	465314.4317	1903864.6994
Y17	13·41.00	30.00	465339.8491	1903848.7633
Y17	13·65.00	30.00	465352.5706	1903869.0771
Y17	13·65.00	60.00	465327.1365	1903884.9865

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y18	11·65.00	59.00	461178.0338	1905756.4957
Y18	11·65.00	30.00	461204.7136	1905745.1295
Y18	13·99.00	51.00	461277.1067	1905968.6385
Y18	13·99.00	68.00	461261.4669	1905975.3014
Y18	14·22.00	65.00	461273.2414	1905995.2854
Y18	14·22.00	48.00	461288.8812	1905988.6225
Y18	14·44.61	43.00	461302.3441	1906007.4666

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y20	12·85.00	-40.00	457465.0697	1908120.6397
Y20	12·85.00	-30.00	457460.1880	1908129.3672
Y20	12·85.00	30.00	457430.8974	1908181.7319
Y20	12·85.00	40.00	457426.0157	1908190.4594
Y20	14·15.00	40.75	457539.1041	1908254.5810
Y20	14·25.00	-50.51	457592.3835	1908179.8141

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y22	10·70.00	-30.24	452359.3000	1919223.2940
Y22	11·25.00	29.89	452356.1249	1919304.4755

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y24	12·10.00	29.67	450757.1474	1923419.0034
Y24	12·50.00	40.00	450763.4456	1923461.6990
Y24	13·30.00	45.00	450797.3403	1923539.3894
Y24	13·30.00	75.00	450771.3823	1923554.4287
Y24	13·60.00	29.64	450828.3221	1923559.4415
Y24	13·60.00	80.00	450787.4463	1923588.8629
Y24	13·80.00	60.00	450818.9557	1923596.7067
Y24	13·80.00	30.73	450841.2724	1923577.7614
Y24	13·85.00	-50.00	450905.4322	1923528.5407

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y25	13·79.00	26.24	450407.1103	1925075.2521
Y25	13·92.00	-33.79	450436.1272	1925021.1227
Y25	14·39.00	-55.00	450487.1501	1925013.6634
Y25	14·45.00	55.00	450462.6465	1925121.0672

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y26	11·23.00	85.00	450429.2164	1926578.4249
Y26	11·27.00	106.00	450436.2803	1926598.5895
Y26	11·55.00	100.00	450459.7936	1926589.3612
Y26	11·81.00	64.00	450479.4541	1926551.1701
Y26	12·09.00	-146.00	450494.2042	1926339.6684
Y26	12·27.00	-144.00	450515.4021	1926340.7841
Y26	13·65.00	65.00	450648.7880	1926556.2727
Y26	13·65.00	56.00	450649.9966	1926547.3543
Y26	13·75.65	65.00	450658.5117	1926557.6539
Y26	13·84.00	-62.98	450686.1935	1926432.4262
Y26	13·91.00	-84.00	450697.0959	1926412.9082
Y26	14·10.00	-64.21	450713.9699	1926436.0403
Y26	14·10.00	-80.00	450716.9330	1926420.5265
Y26	15·53.38	66.00	450816.4539	1926599.7128
Y26	15·80.00	58.00	450842.3051	1926601.3405
Y26	15·80.00	50.00	450845.3673	1926593.9498
Y26	25·15.00	-30.04	451407.4170	1927268.9797
Y26	25·30.00	-130.00	451508.1746	1927276.9972
Y26	25·75.00	-30.02	451411.5626	1927328.8363
Y26	25·90.00	-130.00	451512.3442	1927336.8521

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y26A	10·80.00	280.00	451393.1842	1926816.3967
Y26A	10·80.00	250.74	451369.6890	1926798.9599
Y26A	10·83.00	167.28	451304.4552	1926746.8111
Y26A	10·85.00	63.29	451222.1435	1926683.2334
Y26A	11·20.00	47.65	451229.0814	1926648.7521
Y26A	11·26.00	138.22	451300.4462	1926704.6844
Y26A	11·39.00	220.66	451365.5649	1926755.6233
Y26A	11·60.00	270.00	451404.7631	1926786.1991
Y26A	12·70.00	97.01	451352.2274	1926615.4728
Y26A	12·94.00	82.00	451362.7688	1926594.6659
Y26A	12·95.00	100.00	451369.9252	1926611.1987
Y26A	15·00.00	29.94	451536.6104	1926523.7474

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y27	10·10.00	-40.00	449948.4192	1926328.6608
Y27	10·21.00	-61.00	449964.9417	1926311.6617
Y27	10·68.00	-82.00	450015.9751	1926304.9094
Y27	10·98.00	46.40	450008.1850	1926436.5335
Y27	10·98.00	73.00	450000.6121	1926462.0366
Y27	11·15.00	85.00	450013.4929	1926478.3793
Y27	11·47.00	51.09	450053.8216	1926454.9818

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
SR1	16·63.00	70.00	451224.5783	1926423.2483
SR1	16·72.00	45.00	451250.7564	1926429.1250
SR1	16·95.85	86.18	451214.7200	1926461.9466
SR1	17·01.91	54.00	451247.5850	1926462.2339

I, C. ANDREW HEATH, JR., 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 day. 8/18/2021

DocuSigned by:
C. Andrew Heath Jr.
2CC014B3929747F...

Professional Land Surveyor   L-3281 PLS #   Seal

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 APRIL 2021 TO SEPTEMBER 2021.

$$$$$$SYSTIME$$$$$ $$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$ $$$$$$USERNAME$$$$$

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW04

Location and Surveys

NVS ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NVS.com
NC License # F-1333
formerly CALYN Engineers & Consultants

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-3281 LAND SURVEYOR C. ANDREW HEATH, JR.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, C. ANDREW HEATH, JR., 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.

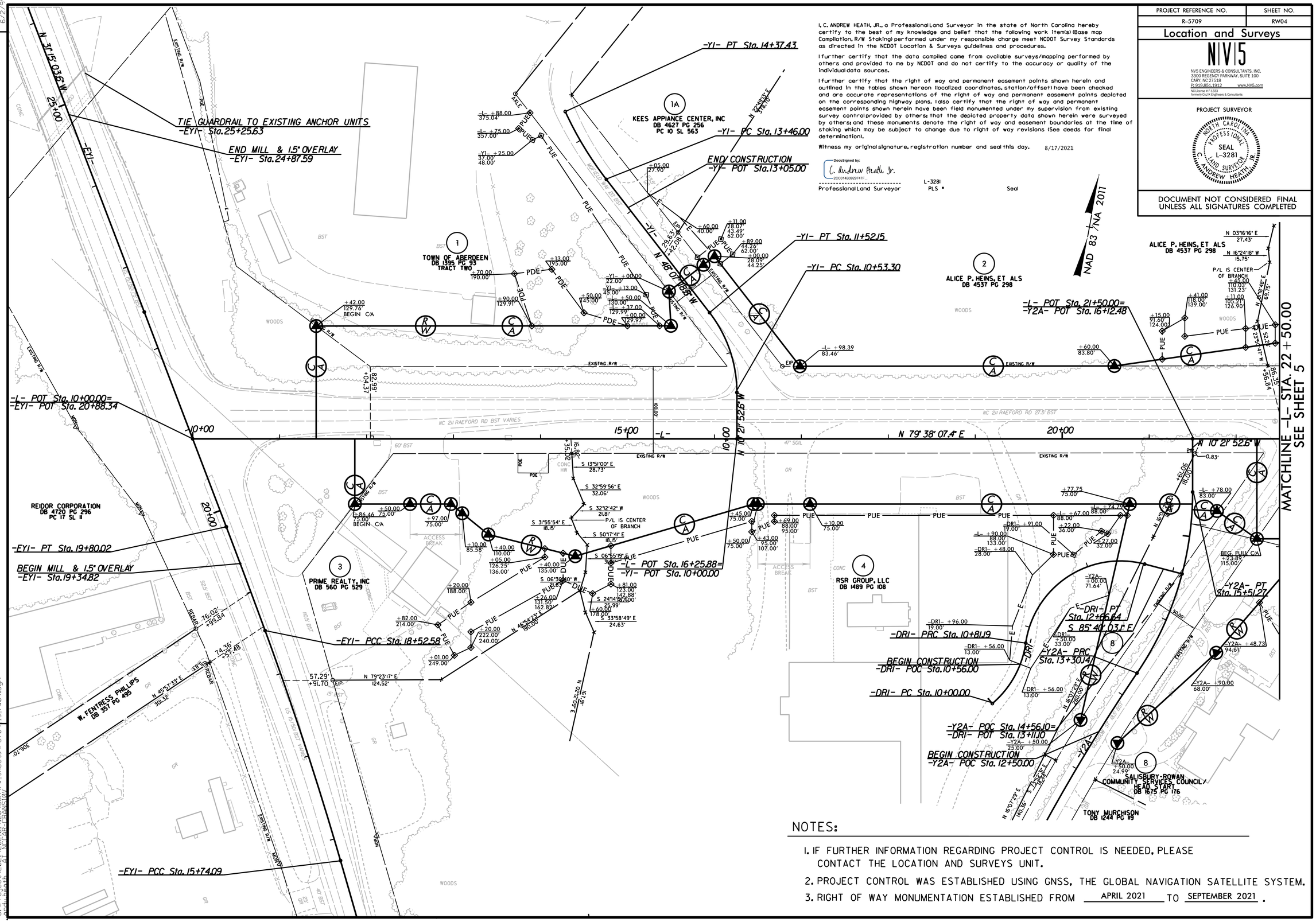
I further certify that the data compiled came from available surveys/mapping performed by others and provided to me by NCDOT and do not certify to the accuracy or quality of the individual data sources.

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 day. 8/17/2021

DocuSigned by: C. Andrew Heath Jr. 2CC014B3929747F...

Professional Land Surveyor L-3281 PLS # Seal



REVISIONS

6/2/99

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 FROM APRIL 2021 TO SEPTEMBER 2021.

I, C. ANDREW HEATH, JR., 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 day 8/17/2021

DocuSigned by:
C. Andrew Heath Jr.
2C2D1489B9D147...

Professional Land Surveyor L-3281 PLS * Seal

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW05

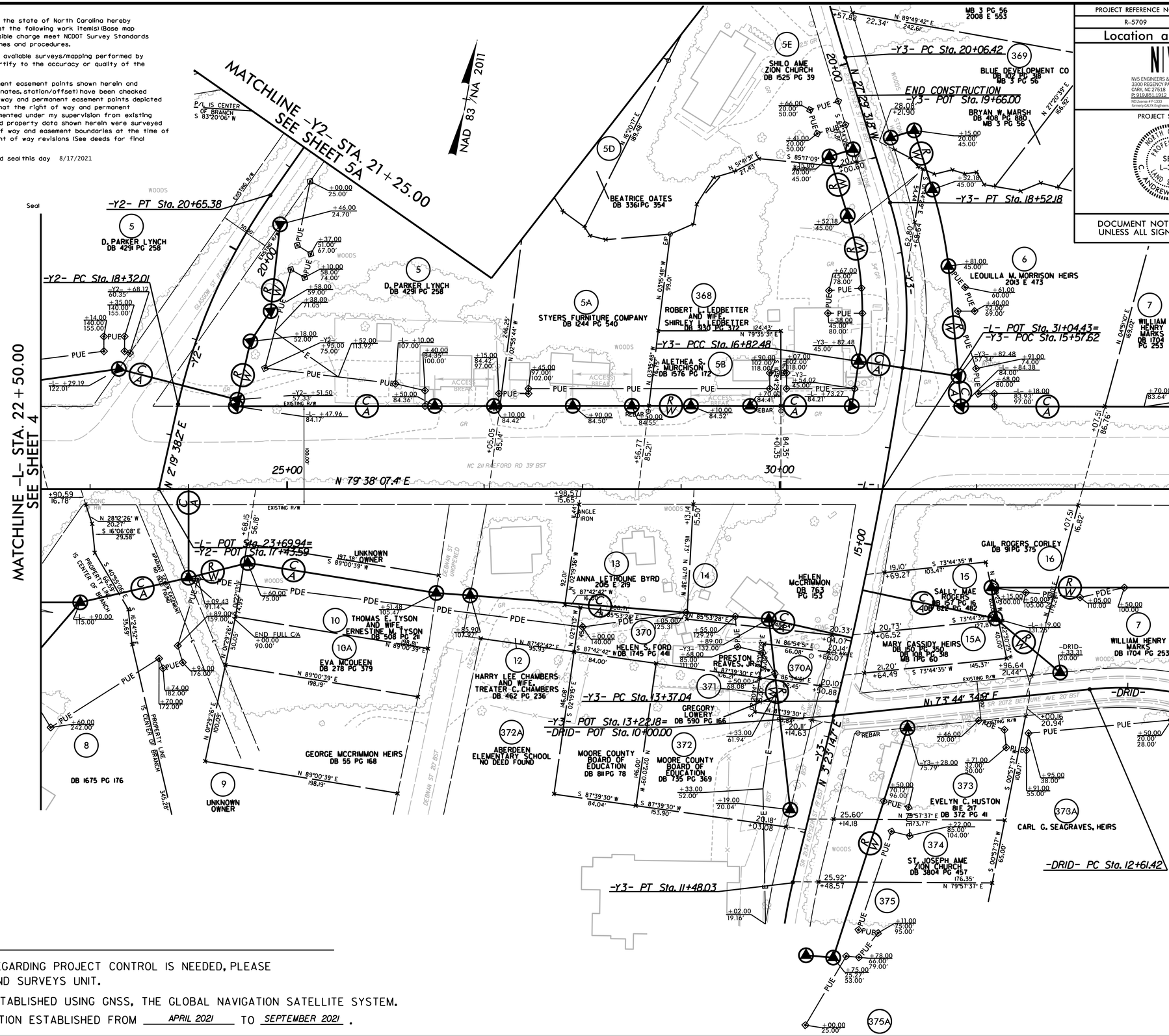
Location and Surveys

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1330
formerly O&H Engineers & Consultants

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-3281 LAND SURVEYOR ANDREW HEATH, JR.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



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 FROM APRIL 2021 TO SEPTEMBER 2021 .

REVISIONS

6/2/99

17-AUG-2021 12:42
C:\Users\ahea\AppData\Local\Bentley\Microsoft\Windows\Temp\2021014.20\SUR\rw_sheets\r-5709_ls_rw05.dgn

I, C. ANDREW HEATH, JR., 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 day. 8/17/2021

DocuSigned by:
C. Andrew Heath Jr.
2CC014B3929747F...

Professional Land Surveyor L-3281 PLS # Seal

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW05A

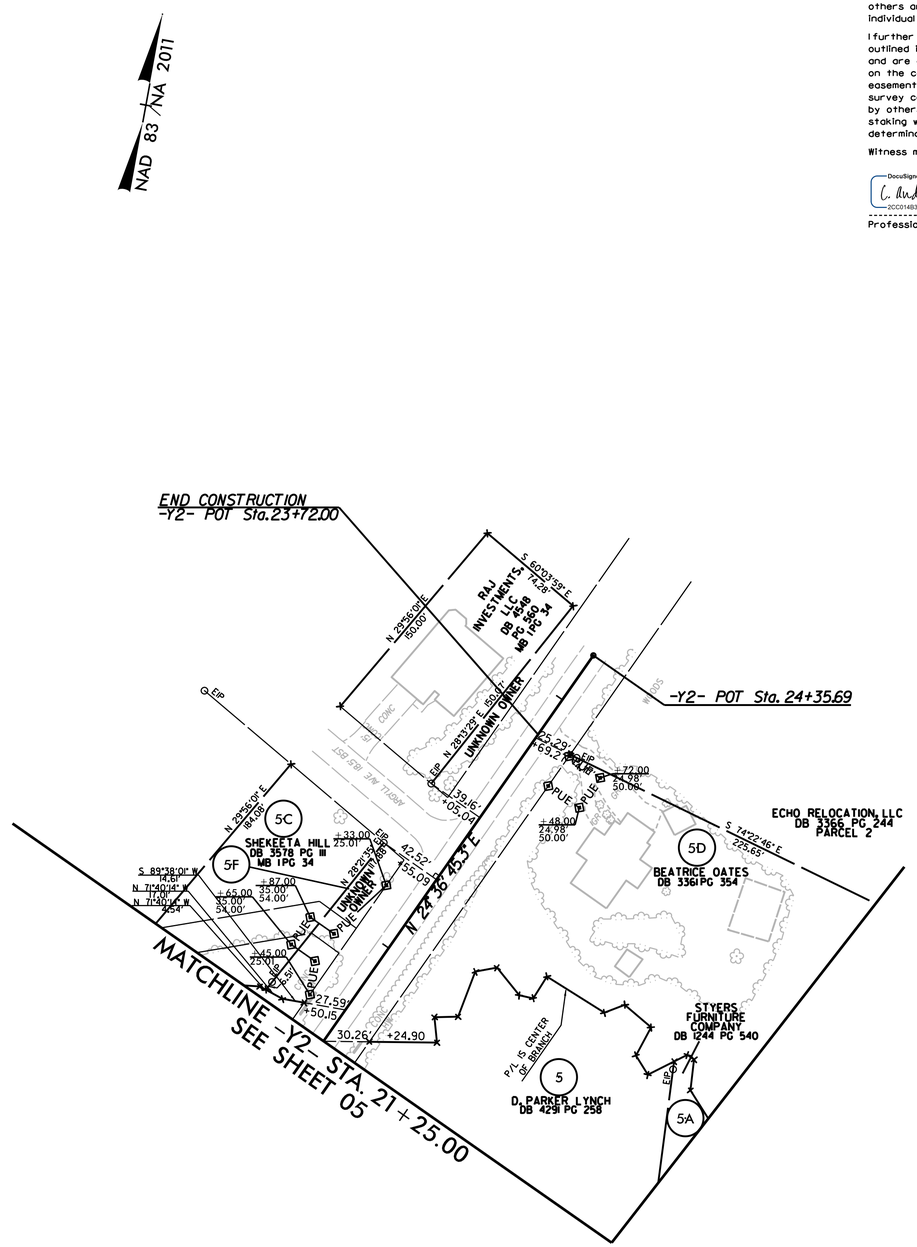
Location and Surveys

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333
formerly GALYN Engineers & Consultants

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-3281 LAND SURVEYOR C. ANDREW HEATH, JR.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



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 FROM APRIL 2021 TO SEPTEMBER 2021 .

REVISIONS

8/17/2021

17-AUG-2021\\50
C:\Users\ahe1\2021\2021014.20\SUR\rw_sheets\r5709ls_rw5A.dgn
andrew.heath
NC FOR TRANSPORTATION

I, C. ANDREW HEATH, JR., 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 day. 8/17/2021

DocuSigned by:
C. Andrew Heath Jr.
Professional Land Surveyor L-3281 PLS Seal

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW06

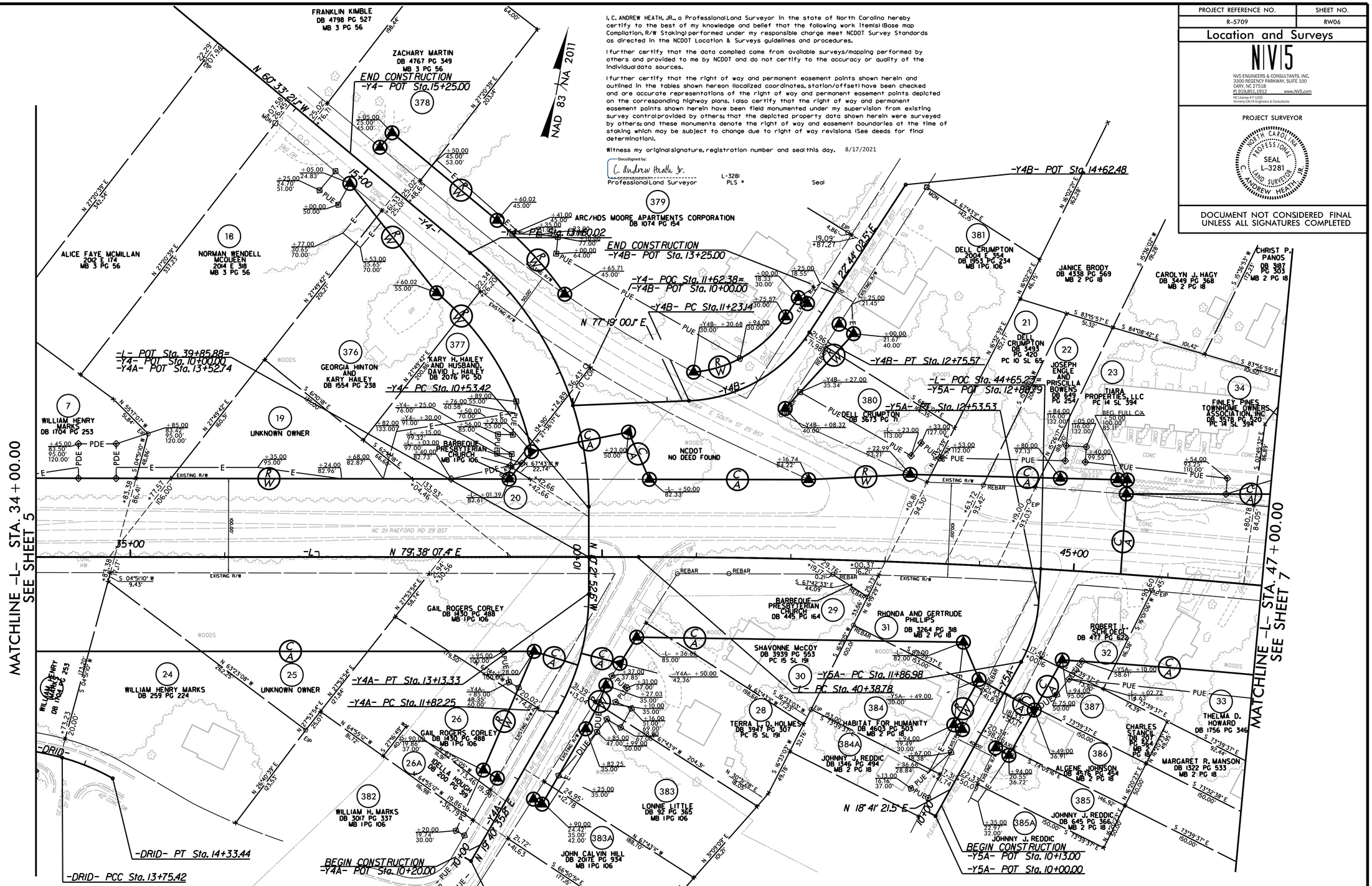
Location and Surveys

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333
formerly OLTN Engineers & Consultants

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-3281 LAND SURVEYOR ANDREW HEATH, JR.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



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 FROM APRIL 2021 TO SEPTEMBER 2021.

REVISIONS

8/17/2021

17-AUG-2021 11:50
G:\2021\R\R-5709\2021\2021014.20\SURV\rw\sheets\r-5709_ls_rw06.dgn
ORIGINAL PAGE SIZE: 24x36 AT NCDOT GRANSCAL

I, C. ANDREW HEATH, JR., 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 day. 8/17/2021

DocuSigned by:
C. Andrew Heath Jr.
2CC014839274 7F

Professional Land Surveyor L-3281 PLS * Seal

PROJECT REFERENCE NO.	SHEET NO.
R-5709	RW07

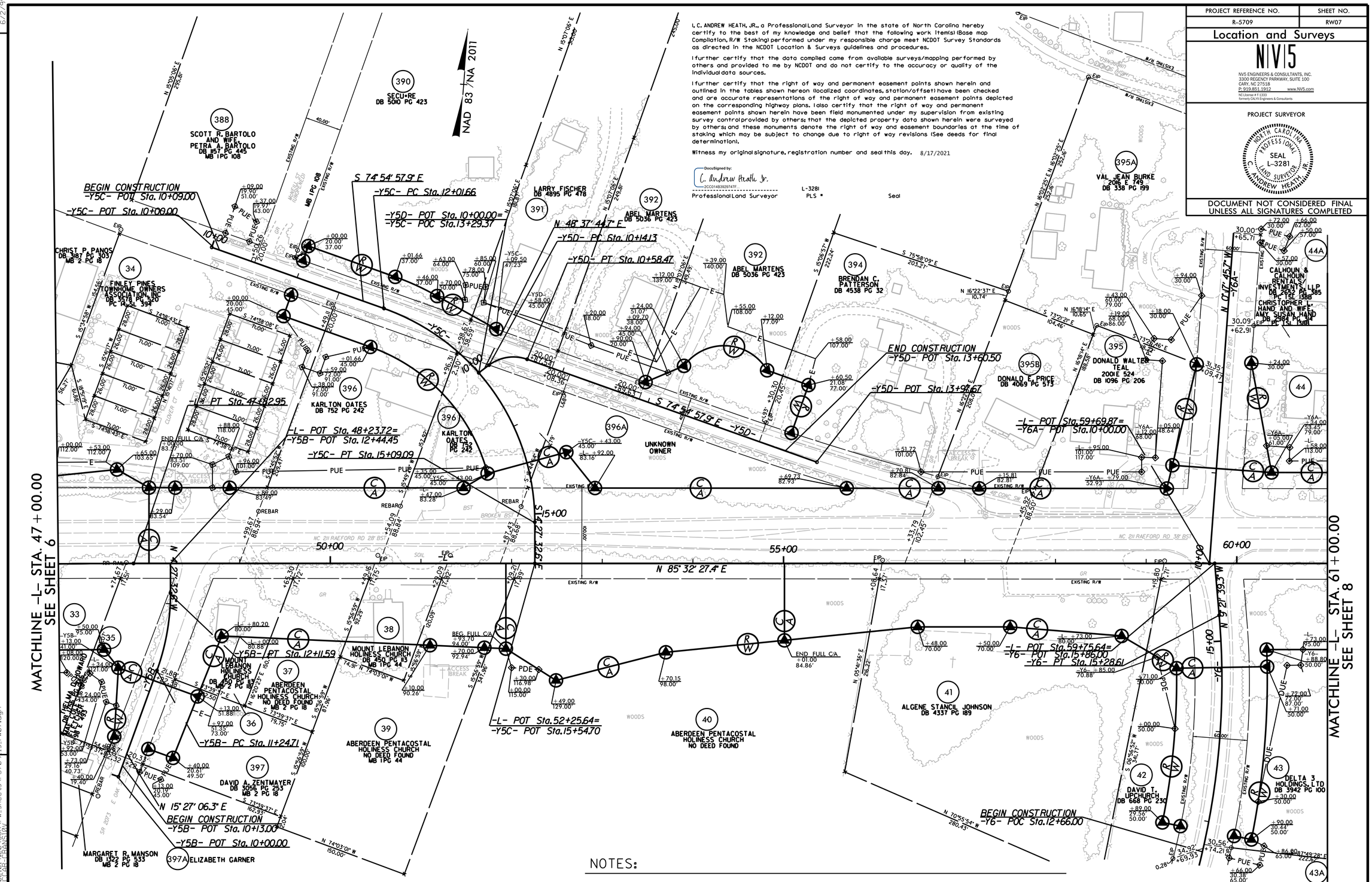
Location and Surveys

NV5 ENGINEERS & CONSULTANTS, INC.
3300 REGENCY PARKWAY, SUITE 100
CARY, NC 27518
P: 919.851.1912 www.NV5.com
NC License # F-1333
formerly CALYX Engineers & Consultants

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-3281 LAND SURVEYOR ANDREW HEATH, JR.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



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 FROM APRIL 2021 TO SEPTEMBER 2021 .

REVISIONS

6/2/99

17-AUG-2021 15:50
C:\Users\cahea\Desktop\2021\2021014.20\SUR\rw_sheets\r-5709_ls_rw07.dgn
andrew.heath at NCDOT-TRANSIT