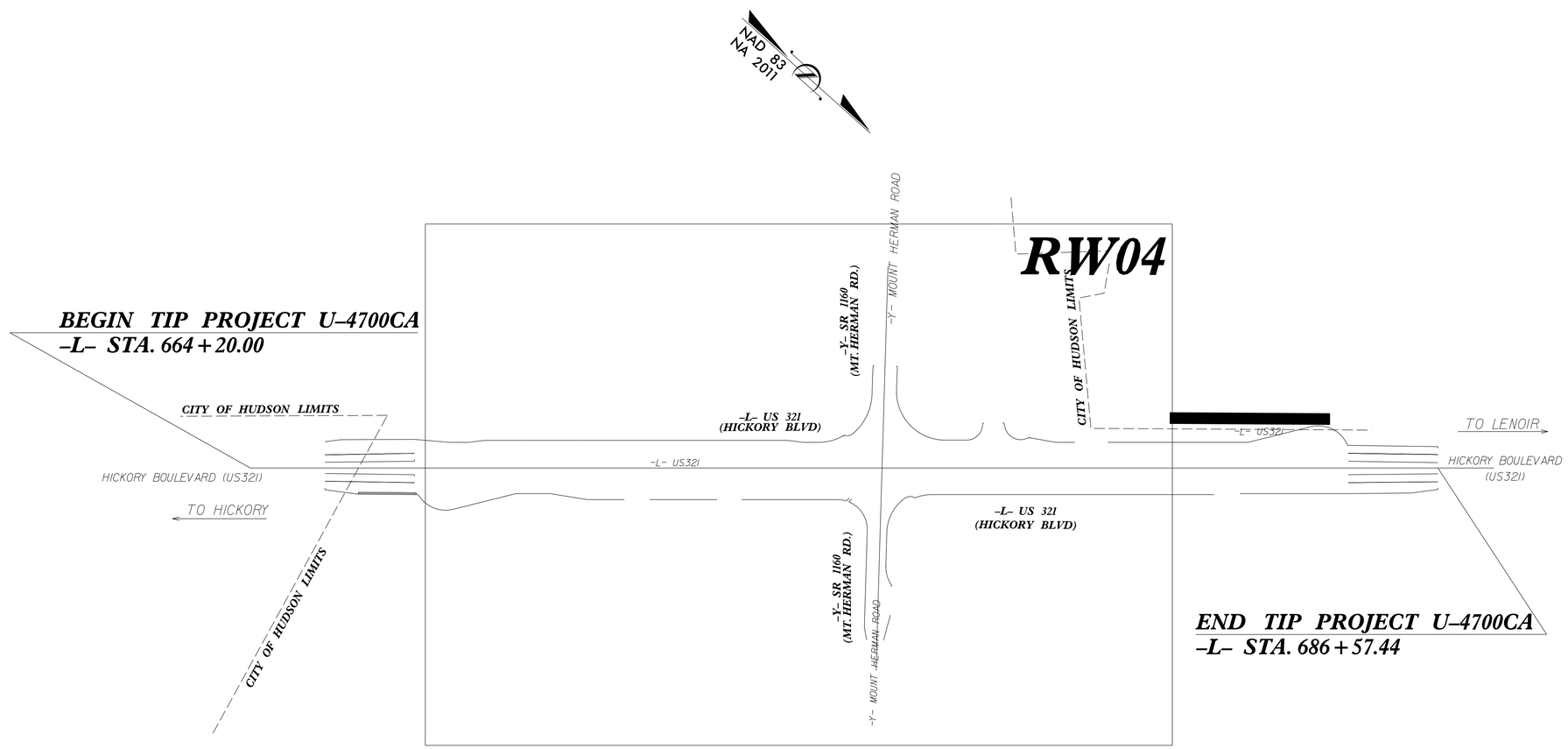
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4700CA	RW01	08

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

CALDWELL COUNTY

TIP PROJECT: U-4700CA



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 "U4700CA-2"
WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF
NORTHING: 775,635.865(ft) EASTING: 1,263,980.233(ft)
ELEVATION: 1,199.35(ft)
THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT
(GROUND TO GRID) IS: 0.99987617
THE N.C. LAMBERT GRID BEARING AND
LOCALIZED HORIZONTAL GROUND DISTANCE FROM
"U4700CA-2" TO -L- STATION 664+20.00 IS
N 65-21'22.7" E 80.82(ft)
ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

DIV. 11 LOCATION & SURVEYS

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:	LETTING DATE:
12/31/2018	SEPTEMBER 15, 2026

PROFESSIONAL LAND SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-4301 LAND SURVEYOR R. LANDON WAGONER

Signed by: R. Landon Wagoner
0406913TFD30420...
06/22/2026

SIGNATURE: Date:

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

09/08/99

19-JUN-2026 09:29
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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U-4700CA	RW02C-1

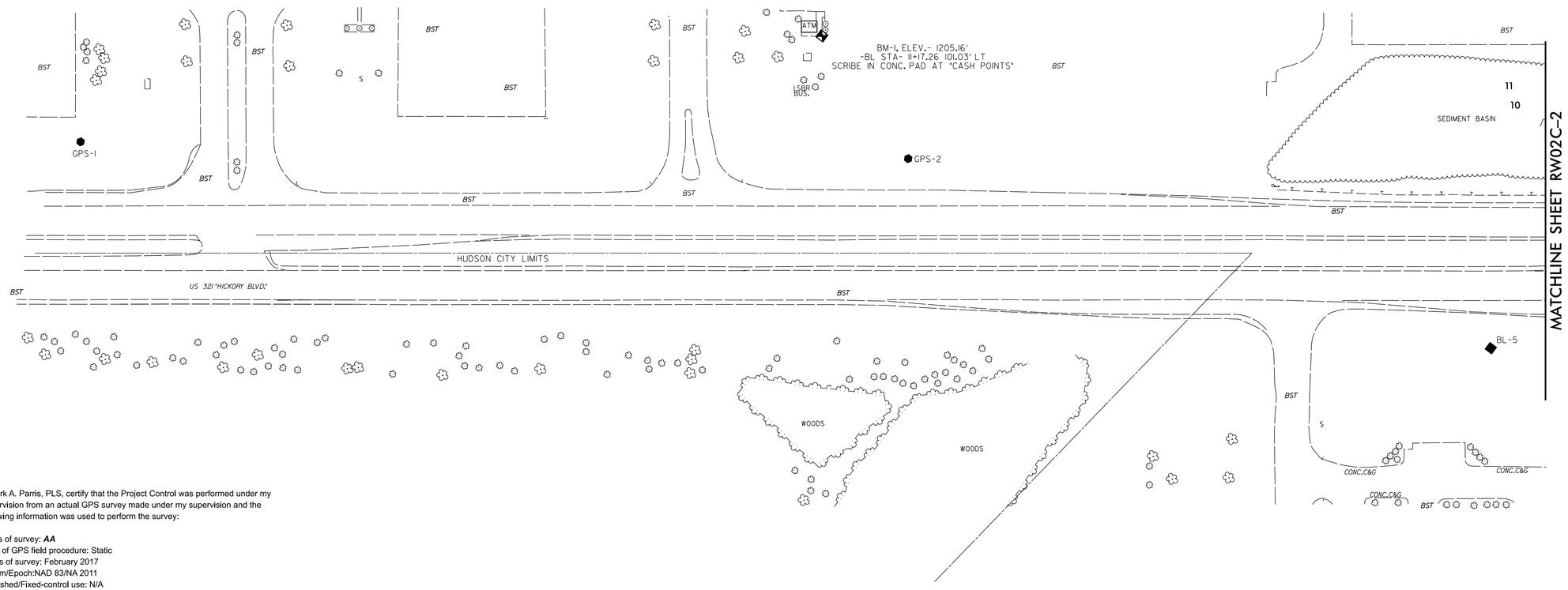
Location and Surveys

108 ASHEVILLE COMMERCE PARKWAY
CANDLER, NC 28715
FIRM LICENSE # C-3097

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-4529 LAND SURVEYOR MARK A PARRIS

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



I, Mark A. Parris, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: ***AA***
Type of GPS field procedure: Static
Dates of survey: February 2017
Datum/Epoch:NAD 83/NA 2011
Published/Fixed-control use: N/A
Localized around: U4700CA-2
Northing:775635.8650
Easting:1263980.2330
Combined grid factor:0.99987617
Geoid model:12A Conus
Units: US Ft.

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from Feb. 23, 2017 to Feb. 24, 2017 , and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 30th day of May, 2017.

DocuSigned by:
Mark A Parris
E157DCB85C7248A...
Professional Land Surveyor L-4529

SEE SHEET RW02C–4 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

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

Docusign Envelope ID: 1D3701AD-95ED-844D-802A-F3DD63B2C510

6/2/99

REVISIONS

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U-4700CA	RW02C-2

Location and Surveys

108 ASHEVILLE COMMERCE PARKWAY
CANDLER, NC 28715
FIRM LICENSE # C-3097

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-4529 LAND SURVEYOR MARK A. PARRIS

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I, Mark A. Parris, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: ***AA***
Type of GPS field procedure: Static
Dates of survey: February 2017
Datum/Epoch:NAD 83/NA 2011
Published/Fixed-control use: N/A
Localized around: U4700CA-2
Northing:775635.8650
Easting:1263980.2330
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Geoid model:12A Conus
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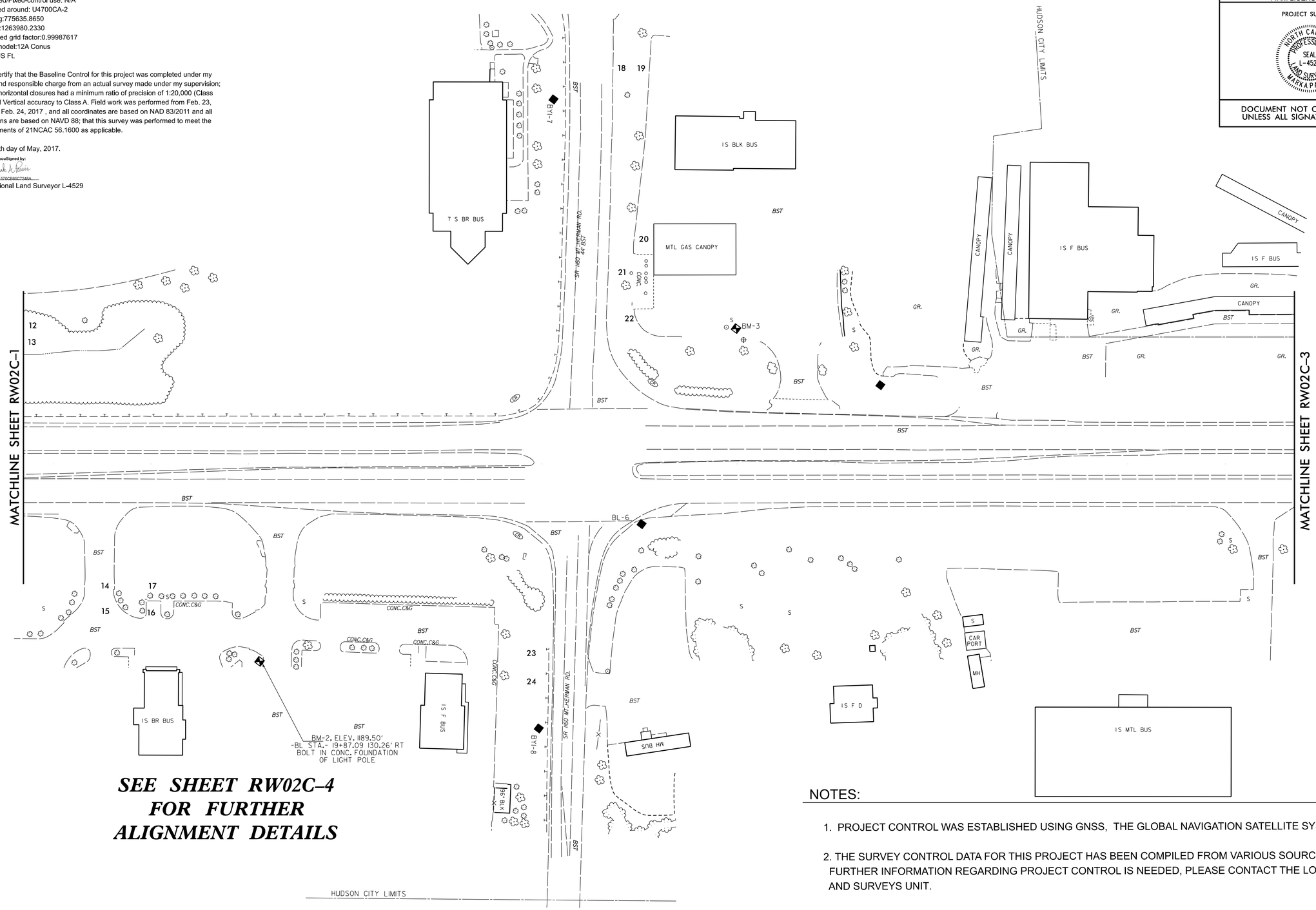
This 30th day of May, 2017.

DocuSigned by:
Mark A. Parris
F1537CB85C724BA...

Professional Land Surveyor L-4529



SEE SHEET RW02C-4 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.

$$$$SYSTIME$$$$
$$$$JCN$$$$
$$$$USERNAME$$$$

Docusign Envelope ID: 1D3701AD-95ED-844D-802A-F3DD63B2C510

6/2/99

REVISIONS

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U-4700CA	RW02C-3

Location and Surveys

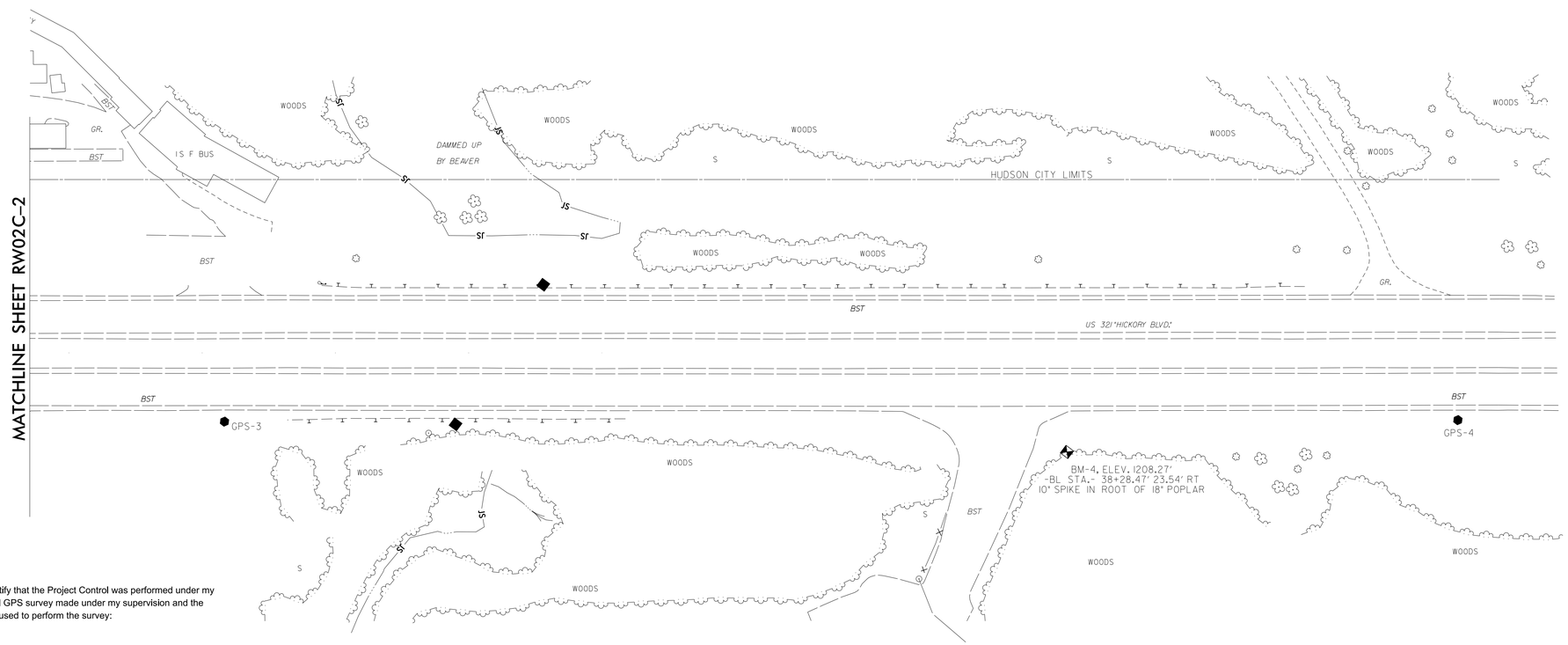
108 ASHEVILLE COMMERCE PARKWAY
CANDLER, NC 28715
FIRM LICENSE # C-3097

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-4529 LAND SURVEYOR MARK A PARRIS

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

MATCHLINE SHEET RW02C-2



I, Mark A. Parris, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: ***AA***
Type of GPS field procedure: Static
Dates of survey: February 2017
Datum/Epoch:NAD 83/NA 2011
Published/Fixed-control use: N/A
Localized around: U4700CA-2
Northing:775635.8650
Easting:1263980.2330
Combined grid factor:0.99987617
Geoid model:12A Conus
Units: US Ft.

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from Feb. 23, 2017 to Feb. 24, 2017 , and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 30th day of May, 2017.

DocuSigned by:
F1570CB85C7248A...

Professional Land Surveyor L-4529

SEE SHEET RW02C-4 FOR FURTHER ALIGNMENT DETAILS

NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
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$$$$SYSTIME$$$$
$$$$JDN$$$$
$$$$USERNAME$$$$

Docusign Envelope ID: 1D3701AD-95ED-844D-802A-F3DD63B2C510

6/2/99

REVISIONS

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

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U-4700CA	RW02C-4

Location and Surveys

108 ASHEVILLE COMMERCE PARKWAY
CANDLER, NC 28715
FIRM LICENSE # C-3097

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-4529 LAND SURVEYOR MARK A PARRIS

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

BL

POINT	DESC.	NORTH	EAST	ELEVATION
GPS1	U4700CA-1	775075.3220	1264384.8480	1204.97
GPS2	U4700CA-2	775635.8650	1263980.2330	1199.35
5	BL-5	776119.8060	1263813.9930	1188.52
6	BL-6	776650.9610	1263391.5510	1190.39
GPS3	U4700CA-3	777295.5150	1262893.5660	1198.53
GPS4	U4700CA-4	778034.2570	1262335.7150	1208.07

BY

POINT	DESC.	NORTH	EAST	ELEVATION
7	BY1-7	776317.3180	1263098.4200	1183.87
Y6	BL-6	776650.9610	1263391.5510	1190.39
8	BY1-8	776692.8310	1263622.0250	1195.80

```
.........................................
BM1       ELEVATION = 1205.16
N 775517      E 1263942
SCRIBE IN CONC. PAD "CASH POINTS"
.........................................
.........................................
BM2       ELEVATION = 1189.50
N 776423      E 1263739
BOLT IN CONC. FOUNDATION OF LIGHT POLE
.........................................
.........................................
BM3       ELEVATION = 1194.23
N 776608      E 1263173
SCRIBE IN CONC. PAD OF B.P. SIGN
.........................................
.........................................
BM4       ELEVATION = 1208.27
N 777814      E 1262531
10" SPIKE IN ROOT OF 18" POPLAR
.........................................
```

EL

POINT	N	E	BEARING	DIST
POT	775084.794	1264460.350		
LINE			N 36°59'14.7" W	3665.48
POT	778012.662	1262255.052		

EY1

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	776338.063	1263062.043							
LINE			N 52°59'00.0" E	48.47					
PC	776367.242	1263100.741							
CURVE			N 54°05'30.0" E	27.71	02°13'00.0"(RT)	08°00'00.0"	27.71	13.86	716.20
PT	776383.491	1263123.182							
LINE			N 55°08'40.2" E	701.07					
POT	776784.157	1263698.475							

I, Mark A. Parris, PLS, certify that the Project Control was performed under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of survey: ***AA***
Type of GPS field procedure: Static
Dates of survey: February 2017
Datum/Epoch:NAD 83/NA 2011
Published/Fixed-control use: N/A
Localized around: U4700CA-2
Northing:775635.8650
Easting:1263980.2330
Combined grid factor:0.99987617
Geoid model:12A Conus
Units: US Ft.

I also certify that the Baseline Control for this project was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:20,000 (Class AA) and Vertical accuracy to Class A. Field work was performed from Feb. 23, 2017 to Feb. 24, 2017 , and all coordinates are based on NAD 83/2011 and all elevations are based on NAVD 88; that this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 30th day of May, 2017.

DocuSigned by:
Mark A. Parris
F3370CB85C7248A...

Professional Land Surveyor L-4529

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.

Docusign Envelope ID: 1D3701AD-95ED-844D-802A-F3DD63B2C510

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
U-4700CA	RW02D-1

Location and Surveys

108 ASHEVILLE COMMERCE PARKWAY
CANDLER, NC 28715
FIRM LICENSE # C-3097

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-4529 LAND SURVEYOR MARK A PARRIS

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

This 5th day of Sept., 2021.

DocuSigned by:
Mark A. Parris
F1570C086C7245A...

Professional Land Surveyor L-4529

L

TYPE	STATION	NORTH	EAST
POT	662+70.00	775549.7516	1264143.9418
POT	687+70.00	777546.6708	1262639.8428

L_LT1

TYPE	STATION	NORTH	EAST
POT	10+00.00	775653.6993	1264032.6294
POT	11+80.03	775795.5966	1263921.8371

L_LT2

TYPE	STATION	NORTH	EAST
POT	10+00.00	777295.2357	1262792.2943
POT	11+80.02	777440.5161	1262685.9935

L_RT1

TYPE	STATION	NORTH	EAST
POT	10+00.00	775685.5198	1264074.8760
POT	11+80.02	775831.0933	1263968.9644

L_RT2

TYPE	STATION	NORTH	EAST
POT	10+00.00	777330.7325	1262839.4216
POT	11+80.01	777473.4519	1262729.7208

Y

TYPE	STATION	NORTH	EAST
POT	8+00.00	776330.2219	1263049.2759
POT	10+00.00	776445.7600	1263212.5271
POT	14+55.00	776708.6091	1263583.9235

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

12-MAY-2026 12:00
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Docusign Envelope ID: 1D3701AD-95ED-844D-802A-F3DD63B2C510

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
U-4700CA	RW03E-1

Location and Surveys

108 ASHEVILLE COMMERCE PARKWAY
CANDLER, NC 28715
FIRM LICENSE # C-3097

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-4529 LAND SURVEYOR MARK A. PARRIS

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I , Mark A. Parris , certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed from 8/31/21 to 9/3/21, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 5th day of Sept., 2021.

Docusigned by:
Mark A. Parris
F1D7C0B6C7C08A...

Professional Land Surveyor L-4529

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
L	669+50.00	-130.00	776014.7005	1263630.9871
L	669+50.00	-140.00	776008.6841	1263622.9994
L	669+70.00	-140.00	776024.6594	1263610.9666
L	669+70.00	-130.00	776030.6758	1263618.9543
L	670+60.00	145.00	776268.0158	1263784.4679
L	670+60.00	130.00	776258.9912	1263772.4864
L	670+95.00	130.00	776286.9481	1263751.4290
L	670+95.00	145.00	776295.9727	1263763.4105

ROW MARKER PERMANENT EASEMENT-E

ALIGN	STATION	OFFSET	NORTH	EAST
Y	8+06.50	-28.78	776357.4715	1263037.9537
Y	8+06.50	-48.96	776373.9436	1263026.2959
Y	9+67.00	-50.00	776467.5090	1263156.7061
Y	10+02.15	-29.95	776471.4451	1263196.9775

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 8/30/21 TO 9/3/21 .

REVISIONS

6/2/99

12-MAY-2026 12:02
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mshipman RT ANC25800L

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I , R. Landon Wagoner , certify that the right of way and permanent easement monumentation for this project shown herein was completed under my direct and responsible charge from an actual survey made under my supervision; that all horizontal closures had a minimum ratio of precision of 1:10,000 (Class A). Field work was performed September 2023, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 4th day of June, 2026.

Signed by:
R. Landon Wagoner
DocuSigned by:
9A8B1137C2D4B2...

Professional Land Surveyor L-4301

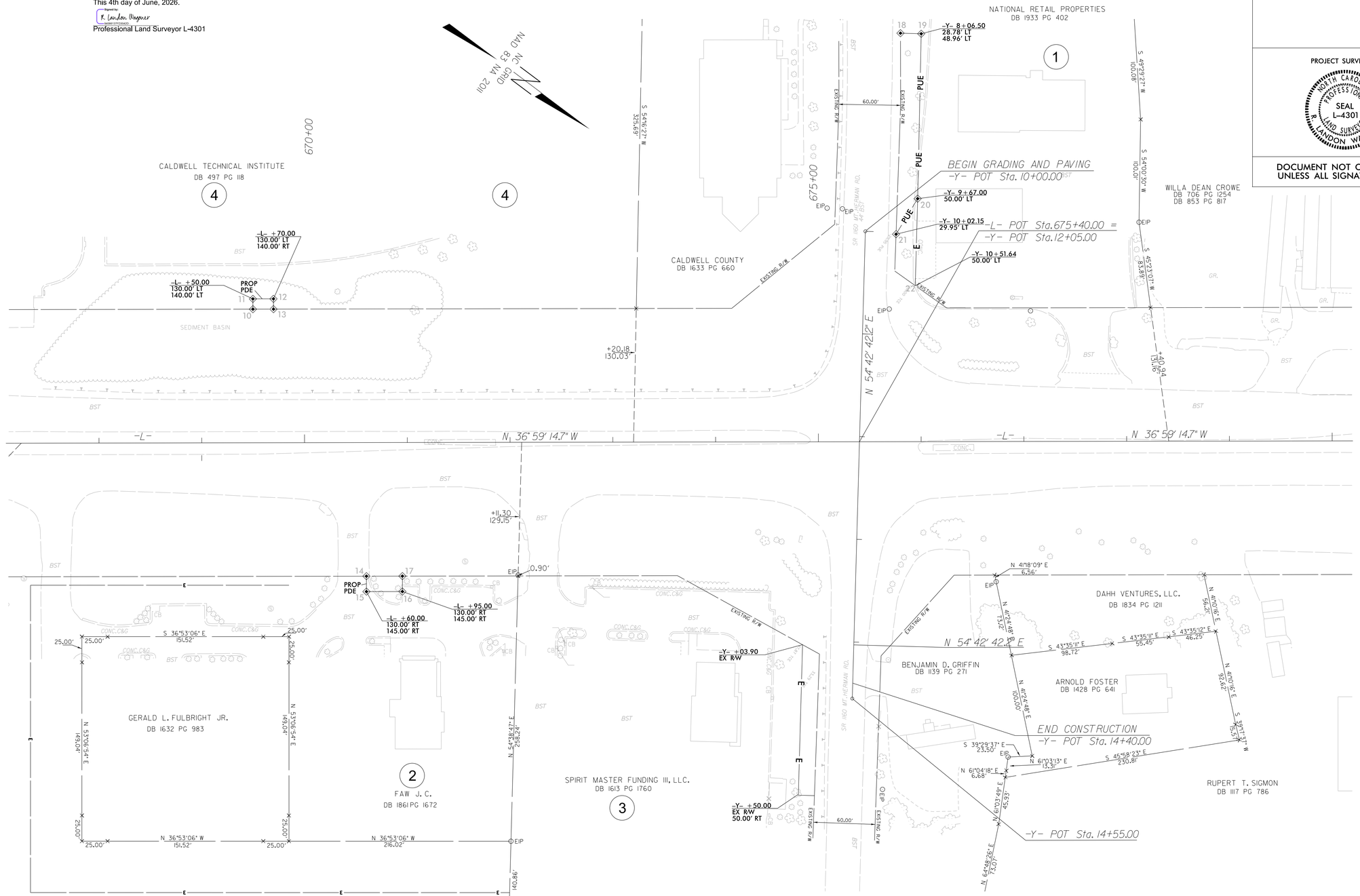
PROJECT REFERENCE NO.	SHEET NO.
U-4700CA	RW04

Location and Surveys

PROJECT SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-4301 LAND SURVEYOR R. LANDON WAGONER

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 8/30/21 TO 9/3/21.

REVISIONS

6/2/99

04-JUN-2026 08:35
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