

BEGIN PROJECT

END PROJECT

VICINITY MAP

NTS

EARLY CLEARING & GRUBBING PLANS

1251
1250
1266
1293
NTS

END CONSTRUCTION
-SR3- POT Sta. 20+85.00

BEGIN CONSTRUCTION
-SR3- POT Sta. 10+20.00

BEGIN CONSTRUCTION
-Y11- POT Sta. 17+75.00

END CONSTRUCTION
-SR3- POT Sta. 30+50.00

END CONSTRUCTION
-L- POT Sta. 227+16.20

TO TRAMWAY

END
U-5727A -
-L- POT

10 11

RETAINING WALL No. 1

BEGIN CONSTRUCTION
-SR3- POT Sta. 28+75.00

END CONSTRUCTION
-SR4- POT Sta. 26+00.00

BEGIN CONSTRUCTION
-SR4- POT Sta. 24+25.00

END CONSTRUCTION
-SR4- POT Sta. 18+75.00

BEGIN CONSTRUCTION
-SR4- POT Sta. 10+50.00

END CONSTRUCTION
-Y13- POT Sta. 14+75.00

END CONSTRUCTION
-Y14- POT Sta. 11+90.00
PIONEER DR

SR 1334
SR 1347
SR 1347
SR 1154
SR 1234
SR 1303
SR 1303
SR 1303

WESTOVER RD
KELLER ANDREWS RD
CARTHAGE RD
PIONEER DR

CITY OF SANFORD
CITY OF SANFORD
CITY OF SANFORD
CITY OF SANFORD

US 1/15-50
60 MPH DESIGN SPEED

TRAMWAY RD
TRAMWAY RD
TRAMWAY RD

CENTER CHURCH RD
CITY OF SANFORD

TO CAMERON

END CONSTRUCTION
-Y9A- POT Sta. 15+50.00

4 5 6 7 8 9

45963.3.2
54018.3.2
a. 140+00.00

★ PRO



INDEX OF SHEETS	
SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, STANDARDS AND GENERAL NOTES
1B	CONVENTIONAL SYMBOLS
3P-1	PARCEL INDEX SHEETS
RW01	SURVEY CONTROL TITLE SHEET
RW02C-1 THRU RW02C-8	SURVEY CONTROL SHEETS
RW02D	PROPOSED ALIGNMENT CONTROL SHEET
RW03E	RIGHT OF WAY CONTROL SHEET
RW04 THRU RW11	RIGHT OF WAY PLANS
TMP-1 THRU TMP-1A	TRAFFIC MANAGEMENT PLANS
EC-1 THRU EC-11	EROSION CONTROL PLANS

2024 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2024 are applicable to this project and by reference hereby are considered a part of these plans:

STD.NO.	TITLE
DIVISION 2 - EARTHWORK	
200.03	Method of Clearing - Method III

EFF. 01-2024
REV.

GENERAL NOTES:

2024 SPECIFICATIONS
EFFECTIVE: 01-2024
REVISED:

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III. WHERE PUE EXISTS BEYOND THE LIMITS OF METHOD III, CLEARING WILL EXTEND TO THE OUTMOST LIMITS OF THE PUE.

SAFETY CLEARING:

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE AREAS IN THE PLANS DESIGNATED SAFETY CLEARING. THE LIMITS ARE AS SHOWN AND THE CLEARING AND GRUBBING IS CONSIDERED A PART OF THE LUMP SUM ITEM FOR "CLEARING AND GRUBBING".

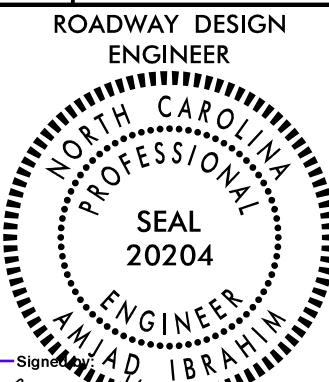
PARCEL SPECIFIC REQUIREMENTS:

CONFIRM WITH OWNERS OF PARCEL 14 AND PARCEL 17 THAT WATER SUPPLY HAS BEEN SHUT OFF FROM IRRIGATION SYSTEM BEFORE PERFORMING ANY ACTIVITIES THAT WOULD IMPACT IRRIGATION SYSTEM.

PROJECT REFERENCE NO.
U-5727A

SHEET NO.
1A

ROADWAY DESIGN
ENGINEER
NORTH CAROLINA
PROFESSIONAL
SEAL
20204
ENGINEER
AMAD IBRAHIM
5/29/2026

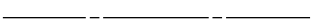
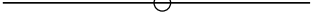
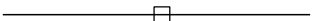

STEWART

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

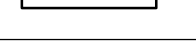
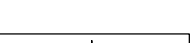
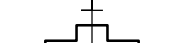
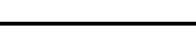
CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

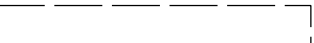
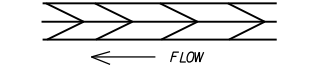
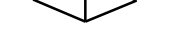
BOUNDARIES AND PROPERTY:

State Line	
County Line	
Township Line	
City Line	
Reservation Line	
Property Line	
Existing Iron Pin (EIP)	
Computed Property Corner	
Existing Concrete Monument (ECM)	
Parcel/Sequence Number	
Existing Fence Line	
Proposed Woven Wire Fence	
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	
Proposed Wetland Boundary	
Existing Endangered Animal Boundary	
Existing Endangered Plant Boundary	
Existing Historic Property Boundary	
Known Contamination Area: Soil	
Potential Contamination Area: Soil	
Known Contamination Area: Water	
Potential Contamination Area: Water	
Contaminated Site: Known or Potential	

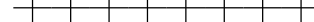
BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	
Sign	
Well	
Small Mine	
Foundation	
Area Outline	
Cemetery	
Building	
School	
Church	
Dam	

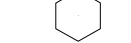
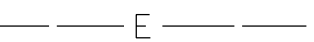
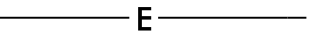
HYDROLOGY:

Stream or Body of Water	
Hydro, Pool or Reservoir	
Jurisdictional Stream	
Buffer Zone 1	
Buffer Zone 2	
Flow Arrow	
Disappearing Stream	
Spring	
Wetland	
Proposed Lateral, Tail, Head Ditch	
False Sump	

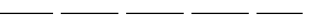
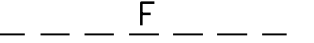
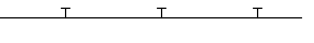
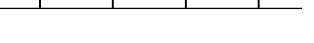
RAILROADS:

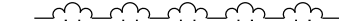
Standard Gauge	
RR Signal Milepost	
Switch	
RR Abandoned	
RR Dismantled	

RIGHT OF WAY & PROJECT CONTROL:

Primary Horiz Control Point	
Primary Horiz and Vert Control Point	
Secondary Horiz and Vert Control Point	
Vertical Benchmark	
Existing Right of Way Monument	
Proposed Right of Way Monument (Rebar and Cap)	
Proposed Right of Way Monument (Concrete)	
Existing Permanent Easement Monument	
Proposed Permanent Easement Monument (Rebar and Cap)	
Existing C/A Monument	
Proposed C/A Monument (Rebar and Cap)	
Proposed C/A Monument (Concrete)	
Existing Right of Way Line	
Proposed Right of Way Line	
Existing Control of Access Line	
Proposed Control of Access Line	
Proposed ROW and CA Line	
Existing Easement Line	
Proposed Temporary Construction Easement	
Proposed Temporary Drainage Easement	
Proposed Permanent Drainage Easement	
Proposed Permanent Drainage/Utility Easement	
Proposed Permanent Utility Easement	
Proposed Temporary Utility Easement	
Proposed Aerial Utility Easement	

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	
Proposed Slope Stakes Fill	
Proposed Curb Ramp	
Existing Metal Guardrail	
Proposed Guardrail	
Existing Cable Guiderail	
Proposed Cable Guiderail	
Equality Symbol	
Pavement Removal	
VEGETATION:	
Single Tree	
Single Shrub	
Hedge	

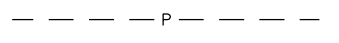
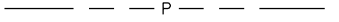
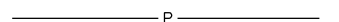
Woods Line	
Orchard	
Vineyard	

EXISTING STRUCTURES:

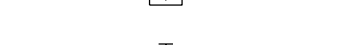
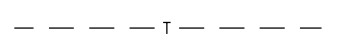
MAJOR:	
Bridge, Tunnel or Box Culvert	
Bridge Wing Wall, Head Wall and End Wall	
MINOR:	
Head and End Wall	
Pipe Culvert	
Footbridge	
Drainage Box: Catch Basin, DI or JB	
Paved Ditch Gutter	
Storm Sewer Manhole	
Storm Sewer	

UTILITIES:

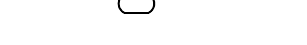
* SUE – Subsurface Utility Engineering
LOS – Level of Service – A,B,C or D (Accuracy)

POWER:	
Existing Power Pole	
Proposed Power Pole	
Existing Joint Use Pole	
Proposed Joint Use Pole	
Power Manhole	
Power Line Tower	
Power Transformer	
U/G Power Cable Hand Hole	
H-Frame Pole	
U/G Power Line Test Hole (SUE – LOS A)*	
U/G Power Line (SUE – LOS B)*	
U/G Power Line (SUE – LOS C)*	
U/G Power Line (SUE – LOS D)*	

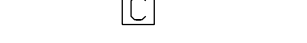
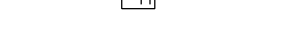
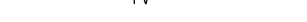
TELEPHONE:

Existing Telephone Pole	
Proposed Telephone Pole	
Telephone Manhole	
Telephone Pedestal	
Telephone Cell Tower	
U/G Telephone Cable Hand Hole	
U/G Telephone Test Hole (SUE – LOS A)*	
U/G Telephone Cable (SUE – LOS B)*	
U/G Telephone Cable (SUE – LOS C)*	
U/G Telephone Cable (SUE – LOS D)*	
U/G Telephone Conduit (SUE – LOS B)*	
U/G Telephone Conduit (SUE – LOS C)*	
U/G Telephone Conduit (SUE – LOS D)*	
U/G Fiber Optics Cable (SUE – LOS B)*	
U/G Fiber Optics Cable (SUE – LOS C)*	
U/G Fiber Optics Cable (SUE – LOS D)*	

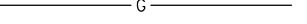
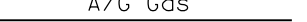
WATER:

Water Manhole	
Water Meter	
Water Valve	
Water Hydrant	
U/G Water Line Test Hole (SUE – LOS A)*	
U/G Water Line (SUE – LOS B)*	
U/G Water Line (SUE – LOS C)*	
U/G Water Line (SUE – LOS D)*	
Above Ground Water Line	

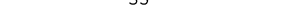
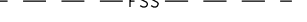
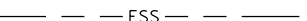
TV:

TV Pedestal	
TV Tower	
U/G TV Cable Hand Hole	
U/G TV Test Hole (SUE – LOS A)*	
U/G TV Cable (SUE – LOS B)*	
U/G TV Cable (SUE – LOS C)*	
U/G TV Cable (SUE – LOS D)*	
U/G Fiber Optic Cable (SUE – LOS B)*	
U/G Fiber Optic Cable (SUE – LOS C)*	
U/G Fiber Optic Cable (SUE – LOS D)*	

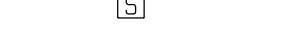
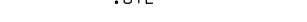
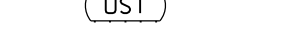
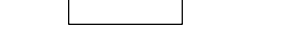
GAS:

Gas Valve	
Gas Meter	
U/G Gas Line Test Hole (SUE – LOS A)*	
U/G Gas Line (SUE – LOS B)*	
U/G Gas Line (SUE – LOS C)*	
U/G Gas Line (SUE – LOS D)*	
Above Ground Gas Line	

SANITARY SEWER:

Sanitary Sewer Manhole	
Sanitary Sewer Cleanout	
U/G Sanitary Sewer Line	
Above Ground Sanitary Sewer	
SS Force Main Line Test Hole (SUE – LOS A)*	
SS Force Main Line (SUE – LOS B)*	
SS Force Main Line (SUE – LOS C)*	
SS Force Main Line (SUE – LOS D)*	

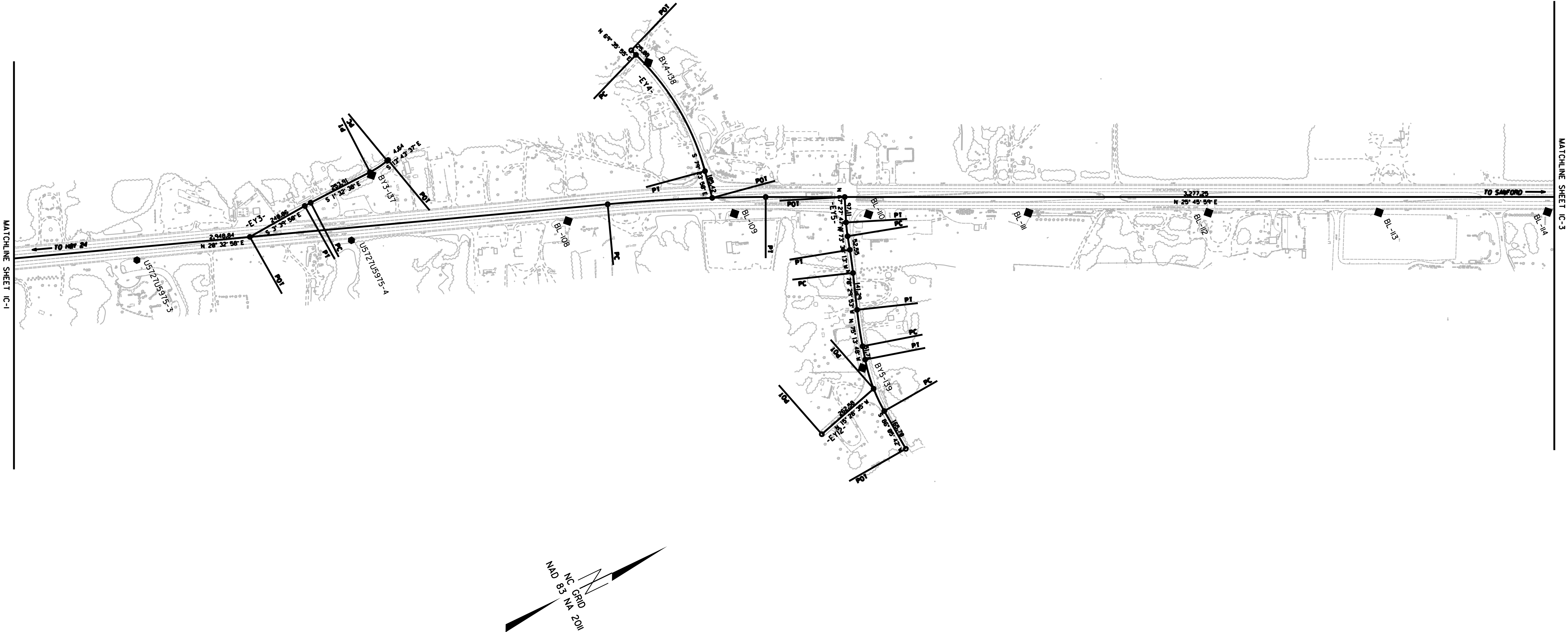
MISCELLANEOUS:

Utility Pole	
Utility Pole with Base	
Utility Located Object	
Utility Traffic Signal Box	
Utility Unknown U/G Line (SUE – LOS B)*	
U/G Tank; Water, Gas, Oil	
Underground Storage Tank, Approx. Loc.	
A/G Tank; Water, Gas, Oil	
Geoenvironmental Boring	
Abandoned According to Utility Records	
End of Information	

PROJECT REFERENCE NO.	SHEET NO.
U5727U5975	RW2C-2
Location and Surveys	

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



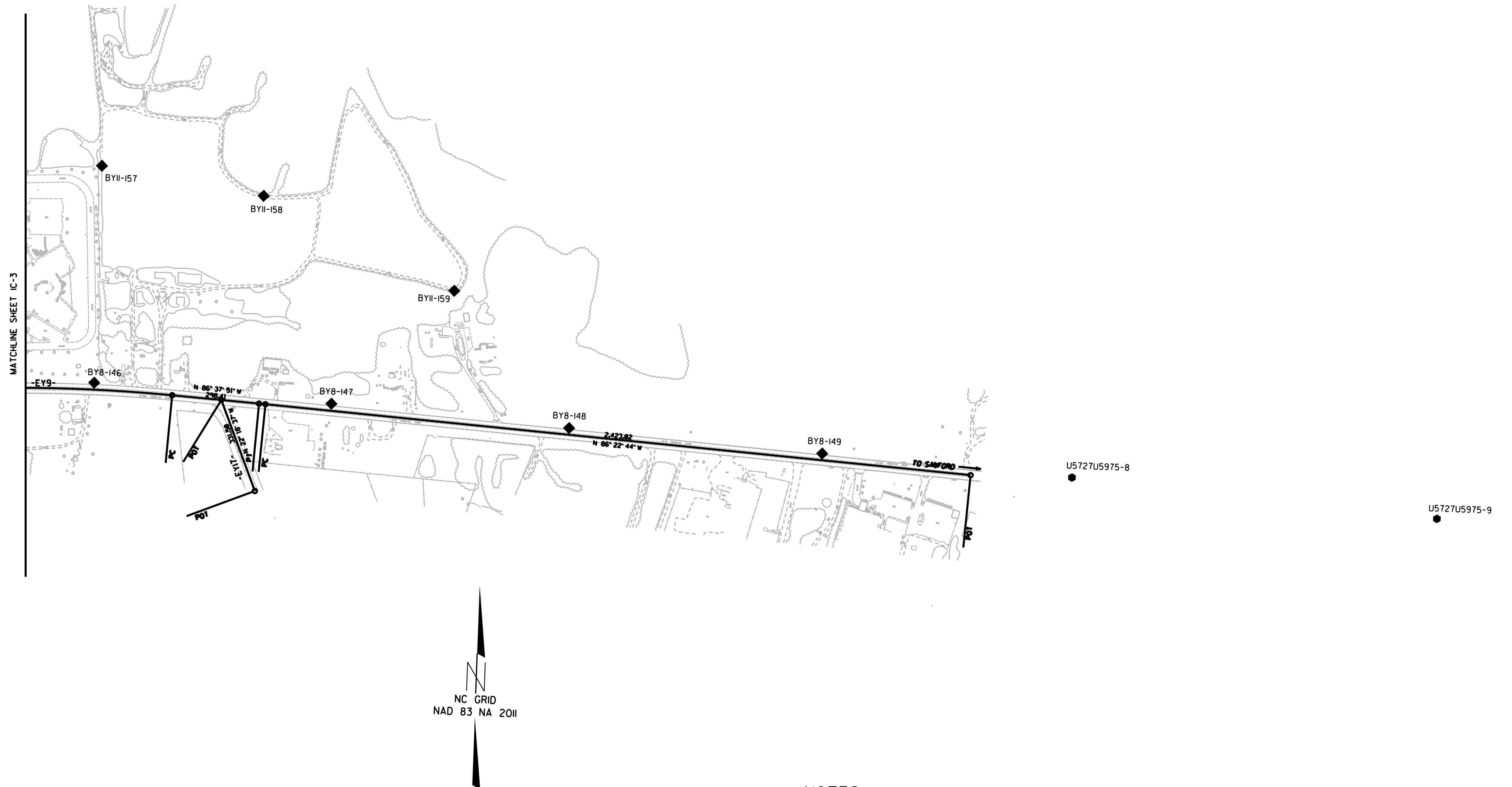
- NOTES:
1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
 2. THE SURVEY CONTROL DATA FOR THIS PROJECT HAS BEEN COMPILED FROM VARIOUS SOURCES. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
U5727/U5975	RW2C-5
Location and Surveys	

SURVEY CONTROL SHEET

W/EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION



NOTES:

1. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
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17-JUL-2018 10:19
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rdvengort AT 9MR3172

REVISIONS

6/2/99

6/2/99

REVISIONS

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06/03/17

PROJECT REFERENCE NO.	SHEET NO.
U-5727U-5975	RW2C-6
Location and Surveys	

SURVEY CONTROL SHEET U-5975 /U-5727

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

BL	POINT	DESC.	NORTH	EAST	ELEVATION
101		BL - 101	600402.3340	1930994.5480	430.03
102		BL - 102	601163.1520	1930958.4470	439.90
103		BL - 103	602043.9320	1930939.9450	478.90
104		BL - 104	602956.4580	1930927.5800	476.33
105		BL - 105	603890.3310	1930910.8440	471.07
106		BL - 106	604715.4310	1931027.4320	470.05
107		BL - 107	605504.9370	1931313.7430	473.89
3		U5727U5875-3	606127.8046	1931660.6178	471.19
4		U5727U5875-4	606896.5162	1931947.9426	459.69
108		BL - 108	607671.0000	1932240.0700	463.90
109		BL - 109	608254.5900	1932490.5400	475.52
110		BL - 110	608713.1590	1932714.9530	477.83
111		BL - 111	609264.6670	1932974.4940	479.94
112		BL - 112	609882.2270	1933272.5590	480.37
113		BL - 113	610467.0480	1933553.7560	485.29
114		BL - 114	611046.9020	1933831.3870	487.43
5		U5727U5875-5	611666.8824	1934102.7290	490.04
115		BL - 115	612331.8700	1934330.0890	495.96
99		U5727U5795-99	612976.9720	1934549.8630	503.00
116		BL - 116	613539.8870	1934749.4900	495.51
117		BL - 117	614110.0450	1934792.4780	497.30
118		BL - 118	614640.1290	1935006.1670	499.37
119		BL - 119	615143.9450	1935272.3440	499.75
120		BL - 120	615648.4430	1935529.5140	501.18
121		BL - 121	616241.0860	1935809.2500	492.21
122		BL - 122	616833.1760	1935922.5540	486.31
123		BL - 123	617527.3220	1935925.6440	483.50
124		BL - 124	618279.1850	1935942.1790	479.70
125		BL - 125	618963.0740	1936082.6640	465.87
126		BL - 126	619668.3880	1936369.9700	442.61
127		BL - 127	620357.5910	1936813.1640	415.93

BY	POINT	DESC.	NORTH	EAST	ELEVATION
128		BY - 128	600763.2870	1929723.3990	416.59
129		BY - 129	601084.5110	1929928.4560	422.89
130		BY - 130	601144.8770	1930553.6080	430.90
E0102		BL - 102	601163.1520	1930958.4470	439.90

BY1	POINT	DESC.	NORTH	EAST	ELEVATION
131		BY1 - 131	600945.4830	1929645.3090	423.20
132		BY1 - 132	601242.8780	1929940.1290	427.82
133		BY1 - 133	601567.3530	1930260.1130	437.18
134		BY1 - 134	601779.0550	1930631.2560	461.61
E0103		BL - 103	602043.9320	1930939.9450	478.90

BY2	POINT	DESC.	NORTH	EAST	ELEVATION
202		BL - 103	602043.9320	1930939.9450	478.90
135		BY2 - 135	601717.3790	1931459.6450	462.76
136		BY2 - 136	601200.1380	1931859.1260	460.90

BY3	POINT	DESC.	NORTH	EAST	ELEVATION
137		BY3 - 137	607073.9760	1931756.8760	463.53
203		U5727U5975-4	606896.5162	1931947.9426	459.69

BY4	POINT	DESC.	NORTH	EAST	ELEVATION
138		BY4 - 138	608209.2860	1931828.5620	488.44
204		BL - 109	608254.5900	1932490.5400	475.52

BY5	POINT	DESC.	NORTH	EAST	ELEVATION
205		BL - 110	608713.1590	1932714.9530	477.83
139		BY5 - 139	608438.7720	1933232.3460	461.98

BY6	POINT	DESC.	NORTH	EAST	ELEVATION
206		U5727U5975-5	611666.8824	1934102.7290	490.04
140		BY6 - 140	611774.8720	1934518.2610	488.03

BY7	POINT	DESC.	NORTH	EAST	ELEVATION
141		BY7 - 141	613803.3560	1933875.4810	496.79
142		BY7 - 142	613884.7350	1934217.6090	486.69
143		BY7 - 143	613970.2490	1934544.8910	487.30
207		BL - 117	614110.0450	1934792.4780	497.30

BY8	POINT	DESC.	NORTH	EAST	ELEVATION
208		BL - 117	614110.0450	1934792.4780	497.30
144		BY8 - 144	614282.2470	1935530.7880	498.13
145		BY8 - 145	614452.9850	1936314.2170	494.71
146		BY8 - 146	614510.5540	1937154.4960	484.34
147		BY8 - 147	614468.8430	1937967.5790	472.51
148		BY8 - 148	614415.7230	1938782.7710	465.10
149		BY8 - 149	614360.7530	1939650.7070	475.14

BY9	POINT	DESC.	NORTH	EAST	ELEVATION
150		BY9 - 150	616178.7430	1934742.1730	493.89
151		BY9 - 151	615874.9600	1935076.2280	496.61
209		BL - 120	615648.4430	1935529.5140	501.18

BY10	POINT	DESC.	NORTH	EAST	ELEVATION
210		BL - 122	616833.1760	1935922.5540	486.31
152		BY10 - 152	616816.1970	1936141.3270	490.87
153		BY10 - 153	617438.5510	1936578.0900	488.17

BY11	POINT	DESC.	NORTH	EAST	ELEVATION
211		BL - 120	615648.4430	1935529.5140	501.18
154		BY11 - 154	615391.2930	1935809.8420	502.33
155		BY11 - 155	615134.6880	1936168.1120	491.50
156		BY11 - 156	615204.0120	1936722.2430	486.46
157		BY11 - 157	615252.4520	1937153.4490	483.93
158		BY11 - 158	615170.2230	1937709.7400	477.94
159		BY11 - 159	614870.0590	1938372.9890	470.72
212		BY8 - 148	614415.7230	1938782.7710	465.10

.....
BM1 ELEVATION = 434.84
N 600538 E 1931146
BL STATION 6+29.00 157 RIGHT
BENCHTIE IN 12" GUM
.....
BM2 ELEVATION = 469.79
N 604424 E 1930955
BL STATION 45+24.00 31 LEFT
BENCHTIE IN 26" OAK
.....
BM3 ELEVATION = 460.97
N 607473 E 1932035
BL STATION 77+66.00 122 LEFT
BENCHTIE IN 26" SYCAMORE
.....
BM4 ELEVATION = 486.80
N 610270 E 1933301
BL STATION 108+26.00 142 LEFT
BENCHTIE IN 10" OAK
.....
BM5 ELEVATION = 494.01
N 613659 E 1934614
BL STATION 145+24.00 144 LEFT
BENCHTIE IN 10" OAK
.....
BM6 ELEVATION = 483.13
N 617200 E 1936067
BL STATION 183+19.00 142 RIGHT
BENCHTIE IN 9" OAK
.....
BM7 ELEVATION = 431.34
N 620016 E 1936527
BL STATION 212+35.00 56 LEFT
BENCHTIE IN 14" OAK
.....
BM8 ELEVATION = 496.13
N 614364 E 1935703
BY8 STATION 14+44.00 43 LEFT
BENCHTIE IN 8" MAPLE
.....
BM9 ELEVATION = 464.67
N 614465 E 1938375
BY8 STATION 41+23.00 22 LEFT
BENCHTIE IN 11" OAK
.....

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.

SURVEY CONTROL SHEET U-5975 /U-5727

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

EL POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	600047.132	1931053.113	N 01°16'51.2" W	3609.06					
LINE									
PC	603655.290	1930972.437	N 09°38'03.3" E	1439.10	21°49'48.9"(RT)	01°30'28.0"	1447.84	732.80	3800.00
CURVE									
PT	605074.088	1931213.281	N 20°32'57.7" E	2948.84					
LINE									
PC	607835.290	1932248.365	N 23°09'28.4" E	602.57	05°13'01.4"(RT)	00°51'55.8"	602.78	301.60	6620.00
CURVE									
PT	608389.312	1932485.337	N 25°45'59.1" E	3277.25					
LINE									
PC	611340.718	1933909.970	N 22°06'48.2" E	458.74	07°18'21.9"(LT)	01°35'29.6"	459.05	229.84	3600.00
CURVE									
PT	611765.717	1934082.660	N 18°27'37.2" E	1863.73					
LINE									
PC	613533.543	1934672.806	N 18°15'58.5" E	63.18	00°23'17.5"(LT)	00°36'52.0"	63.18	31.59	9325.00
CURVE									
PT	613593.539	1934692.608	N 18°04'19.7" E	128.04					
LINE									
PC	613715.266	1934732.329	N 23°10'24.3" E	1490.24	10°12'09.1"(RT)	00°41'01.4"	1492.21	748.08	8380.00
CURVE									
PT	615085.267	1935318.759	N 28°16'28.8" E	749.48					
LINE									
PC	615745.323	1935673.787	N 13°41'22.1" E	1311.98	29°10'13.4"(LT)	02°11'58.0"	1326.26	677.83	2605.00
CURVE									
PT	617020.032	1935984.279	N 00°53'44.6" W	655.53					
LINE									
PC	617675.482	1935974.031	N 00°58'43.9" W	129.11	00°09'58.4"(LT)	00°07'43.5"	129.11	64.55	44500.00
CURVE									
PT	617804.573	1935971.826	N 16°54'12.8" E	2316.42	35°55'51.7"(RT)	01°31'33.1"	2354.82	1217.58	3755.00
CURVE									
PT	620020.911	1936645.351	N 34°52'08.6" E	614.06					
LINE									
POT	620524.723	1936996.410							

EY POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	600698.069	1929721.999	N 10°24'22.6" E	9.46					
LINE									
PC	600707.378	1929723.709	N 18°05'20.4" E	187.16	15°21'55.8"(RT)	08°11'06.4"	187.72	94.43	700.00
CURVE									
PT	600885.290	1929781.822	N 25°46'18.3" E	8.97					
LINE									
PC	600893.369	1929785.723	N 37°15'32.4" E	119.49	22°58'28.2"(RT)	19°05'54.9"	120.29	60.97	300.00
CURVE									
PT	600988.472	1929858.064	N 48°44'46.5" E	113.42					
LINE									
PC	601063.259	1929943.331	N 62°56'37.5" E	98.11	28°23'42.0"(RT)	28°38'52.4"	99.12	50.60	200.00
CURVE									
PT	601107.884	1930030.701	N 77°08'28.5" E	21.71					
LINE									
PC	601112.715	1930051.866	N 83°08'49.0" E	104.84	12°00'40.9"(RT)	11°26'10.6"	105.03	52.71	501.00
CURVE									
PT	601125.225	1930155.953	N 89°09'09.5" E	582.16					
LINE									
PC	601133.834	1930738.053	N 76°10'45.7" E	78.57	25°56'47.4"(LT)	32°44'25.6"	79.25	40.32	175.00
CURVE									
PT	601152.604	1930814.352	N 63°12'22.0" E	96.84					
LINE									
PC	601196.259	1930900.796	N 75°04'36.0" E	82.28	23°44'27.9"(RT)	28°38'52.4"	82.87	42.04	200.00
CURVE									
PT	601217.448	1930980.301	N 86°56'49.9" E	46.65					
LINE									
POT	601219.933	1931026.890							

EY1 POINT	N	E	BEARING	DIST
POT	600787.341	1929456.330		
LINE				
POT	601627.437	1930291.002	N 44°48'52.1" E	1184.25

EY2 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	601148.572	1931873.462	N 37°23'33.7" W	689.64					
LINE									
PC	601696.484	1931454.663	N 50°36'09.2" W	411.33	26°25'11.0"(LT)	06°21'58.3"	415.00	211.26	900.00
CURVE									
PT	601957.555	1931136.800	N 63°48'44.7" W	142.43					
LINE									
POT	602020.410	1931008.992							

EY3 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	607155.370	1931733.079	S 13°43'37.1" E	4.64					
LINE									
PC	607150.866	1931734.179	S 07°38'07.5" E	78.53	12°10'59.2"(RT)	15°29'07.2"	78.68	39.49	370.00
CURVE									
PT	607073.036	1931744.613	S 01°32'37.9" E	253.91					
LINE									
PC	606819.223	1931751.454	S 02°36'14.0" E	25.90	02°07'12.2"(LT)	08°11'06.4"	25.90	12.95	700.00
CURVE									
PT	606793.350	1931752.630	S 03°39'50.1" E	240.06					
LINE									
POT	606553.784	1931767.971							

EY4 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	608171.201	1931759.092	N 69°35'55.3" E	25.08					
LINE									
PC	608179.942	1931782.595	N 85°06'02.5" E	515.30	31°00'14.4"(RT)	05°56'36.8"	521.64	267.38	964.00
CURVE									
PT	608223.951	1932296.013	S 79°23'50.3" E	105.42					
LINE									
POT	608204.554	1932399.634							

EY5 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	608452.744	1933581.670	S 86°05'42.5" W	165.70					
LINE									
PC	608441.460	1933416.356	N 84°34'02.8" W	209.30	18°40'29.5"(RT)	08°52'59.0"	210.23	106.06	645.00
CURVE									
PT	608461.275	1933207.995	N 75°13'48.0" W	51.71					
LINE									
PC	608474.458	1933157.993	N 72°51'50.4" W	140.36	04°43'55.3"(RT)	03°22'13.2"	140.40	70.22	1700.00
CURVE									
PT	608515.815	1933023.862	N 70°29'52.7" W	141.29					
LINE									
PC	608562.984	1932890.676	N 72°00'02.8" W	89.17	03°00'20.2"(LT)	03°22'13.2"	89.18	44.60	1700.00
CURVE									
PT	608590.537	1932805.872	N 73°30'12.9" W	52.55					
LINE									
PC	608605.458	1932755.488	N 70°29'00.1" W	52.69	06°02'25.8"(RT)	11°27'33.0"	52.71	26.38	500.00
CURVE									
PT	608623.060	1932705.826	N 67°27'47.2" W	97.11					
LINE									
POT	608660.280	1932616.133							

EY6 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	611806.076	1934096.133	S 76°18'53.9" E	238.61					
LINE									
PC	611749.625	1934327.970	N 85°43'53.1" E	114.05	35°54'26.1"(LT)	30°58'14.5"	115.94	59.94	185.00
CURVE									
PT	611758.114	1934441.705	N 67°46'40.0" E	56.01					
LINE									
PC	611779.297	1934493.557	N 63°55'33.7" E	201.53	07°42'12.7"(LT)	03°49'11.0"	201.68	100.99	1500.00
CURVE									
PT	611867.874	1934674.573							

EY7 POINT	N	E	BEARING	DIST
POT	612804.619	1934429.472		
LINE				
POT	612724.276	1934668.232	S 71°24'06.7" E	251.92

EY8 POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	613776.776	1933698.295	N 76°58'55.6" E	36.54					
LINE									
PC	613785.006	1933733.895	N 76°16'31.8" E	123.32	01°24'47.5"(LT)	01°08'45.3"	123.32	61.67	5000.00
CURVE									
PT	613814.265	1933853.696	N 75°34'08.1" E	1037.00					
LINE									
POT	614072.700	1934857.974							

EY9									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	614305.704	1940160.609							
LINE			N 86°22'44.1" W	2423.02					
PC	614458.737	1937742.422	N 86°30'17.5" W	21.98	00°15'06.9"(LT)	01°08'45.3"	21.98	10.99	5000.00
CURVE									
PT	614460.077	1937720.479	N 86°37'51.0" W	298.41					
LINE									
PC	614477.615	1937422.586	S 85°29'43.7" W	1506.89	15°44'50.5"(LT)	01°02'30.3"	1511.64	760.61	5500.00
CURVE									
PT	614359.267	1935920.355	S 77°37'18.5" W	94.49					
LINE									
PC	614339.011	1935828.058	S 77°37'18.5" W	0.00	00°00'00.2"(RT)	11°27'33.0"	0.00	0.00	500.00
CURVE									
PT	614339.011	1935828.058	S 76°25'57.9" W	20.75	02°22'41.4"(LT)	11°27'34.9"	20.75	10.38	499.98
CURVE									
PT	614334.143	1935807.886	S 75°14'37.2" W	275.77					
LINE									
PC	614263.902	1935541.212	S 74°34'35.2" W	116.45	01°20'03.9"(LT)	01°08'45.3"	116.45	58.23	5000.00
CURVE									
PT	614232.933	1935428.958	S 73°54'33.3" W	596.23					
LINE									
POT	614067.681	1934856.082							

6/2/99

REVISIONS

6/2/99

SURVEY CONTROL SHEET U-5975 /U-5727

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U-5727U-5975	RW2C-8
Location and Surveys	

EY14				
POINT	N	E	BEARING	DIST
POT	613250.984	1934892.749		
LINE			N 71°11'14.0" W	298.10
POT	613347.115	1934610.571		

EY15				
POINT	N	E	BEARING	DIST
POT	613912.382	1935383.708		
LINE			N 15°17'35.8" W	295.48
POT	614197.399	1935305.772		

EY16				
POINT	N	E	BEARING	DIST
POT	614048.540	1935885.689		
LINE			N 15°24'17.6" W	296.02
POT	614333.924	1935807.055		

EY17				
POINT	N	E	BEARING	DIST
POT	614160.997	1937717.095		
LINE			N 22°18'36.6" W	331.50
POT	614467.685	1937591.250		

EY18				
POINT	N	E	BEARING	DIST
POT	615994.079	1935323.870		
LINE			S 25°16'11.2" W	195.73
POT	615817.079	1935240.317		

EY19									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	616075.808	1935505.863							
LINE			S 67°06'49.5" E	70.10					
PC	616048.544	1935570.447							
CURVE			S 86°12'43.4" E	78.53	38°11'47.7"(L T)	47°44'47.3"	80.00	41.55	120.00
PCC	616043.357	1935648.801							
CURVE			N 47°25'15.4" E	77.89	54°32'14.7"(L T)	67°24'24.5"	80.91	43.81	85.00
PT	616096.056	1935706.154							
LINE			N 20°09'08.1" E	12.46					
PC	616107.755	1935710.447							
CURVE			N 16°52'48.5" E	319.64	06°32'39.1"(L T)	02°02'46.6"	319.81	160.08	2800.00
PT	616413.619	1935803.260							
LINE			N 13°36'28.9" E	2.62					
PC	616416.165	1935803.876							
CURVE			N 07°17'24.2" E	616.26	12°38'09.4"(L T)	02°02'46.6"	617.51	310.01	2800.00
PT	617027.442	1935882.075							
LINE			N 00°58'19.5" E	61.88					
PC	617089.311	1935883.124							
CURVE			N 00°06'21.5" W	82.78	02°09'22.0"(L T)	02°36'15.7"	82.79	41.40	2200.00
PT	617172.095	1935882.971							
LINE			N 01°11'02.5" W	600.35					
PC	617772.320	1935870.566							
CURVE			N 02°57'59.7" E	564.55	08°18'04.5"(RT)	01°28'08.8"	565.05	283.02	3900.00
PT	618336.118	1935899.783							
LINE			N 07°07'02.0" E	3.36					
PC	618339.449	1935900.199							
CURVE			N 13°33'48.3" E	898.16	12°53'32.5"(RT)	01°25'56.6"	900.06	451.94	4000.00
PCC	619212.560	1936110.837							
CURVE			N 22°38'59.3" E	285.60	05°16'49.4"(RT)	01°50'53.7"	285.70	142.95	3100.00
PT	619476.129	1936220.819							
LINE			N 25°17'24.0" E	171.35					
PC	619631.058	1936294.021							
CURVE			N 18°27'32.0" E	154.63	13°39'44.0"(L T)	08°48'53.0"	154.99	77.87	650.00
PT	619777.729	1936342.979							
LINE			N 11°37'40.0" E	21.29					
PC	619798.577	1936347.269							
CURVE			N 08°52'29.3" E	48.03	05°30'21.4"(L T)	11°27'33.0"	48.05	24.04	500.00
PT	619846.032	1936354.679							
LINE			N 06°07'18.6" E	320.92					
POT	620165.126	1936388.903							

EY20									
POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	617363.662	1936066.142							
LINE			N 00°39'36.6" W	498.71					
PC	617862.343	1936060.396							
CURVE			N 02°00'36.9" E	270.23	05°20'27.0"(RT)	01°58'32.6"	270.32	135.26	2900.00
PT	618132.402	1936069.875							
LINE			N 04°40'50.4" E	92.96					
PC	618225.052	1936077.461							
CURVE			N 09°32'09.6" E	433.36	09°42'38.5"(RT)	02°14'17.2"	433.88	217.46	2560.00
PT	618652.422	1936149.254							
LINE			N 14°23'28.8" E	114.52					
PC	618763.351	1936177.718							
CURVE			N 16°47'40.9" E	224.77	04°48'24.2"(RT)	02°08'16.4"	224.83	112.48	2680.00
PT	618978.531	1936242.663							
LINE			N 19°11'53.1" E	179.27					
PC	619147.836	1936301.615							
CURVE			N 22°07'08.7" E	254.79	05°50'31.2"(RT)	02°17'30.6"	254.91	127.56	2500.00
PT	619383.879	1936397.554							
LINE			N 25°02'24.3" E	38.60					
PC	619418.848	1936413.890							
CURVE			N 29°55'32.7" E	626.83	09°46'16.8"(RT)	01°33'25.0"	627.59	314.56	3680.00
PT	619962.108	1936726.603							
LINE			N 34°48'41.0" E	640.62					
POT	620488.076	1937092.315							

- NOTES:
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 - 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.

PROPOSED ALIGNMENT CONTROL SHEET

PROJECT REFERENCE NO.
U5727

SHEET NO.
RW02D

Location and Surveys



MCKIM & CREED

4300 EDWARDS MILL RD., SUITE 200
RALEIGH, NC 27612
(P) 919-233-8091 (F) 919-233-8031
F-1222



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

I, Richard A. Mitchell, 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 8th day of December, 2025.

Signed by:
Richard Mitchell 12/8/2025
SAS17005504E4F
Professional Land Surveyor L-5060

L			
TYPE	STATION	NORTH	EAST
POT	10+00.00	600047.1316	1931053.1129
TS	45+11.65	603557.9065	1930974.6146
SC	46+71.65	603717.8842	1930972.1347
CS	59+93.78	605015.1001	1931192.3400
ST	61+53.78	605165.2979	1931247.4729
TS	89+45.20	607779.1043	1932227.3030
SC	90+65.20	607891.3405	1932269.7639
CS	95+47.99	608335.1241	1932459.5838
ST	96+67.99	608443.3496	1932511.4213
TS	127+95.21	611259.6466	1933870.9369
SC	129+75.21	611422.3918	1933947.7278
CS	132+54.27	611680.8548	1934052.7491
ST	134+34.27	611851.1069	1934111.1650
PC	154+58.18	613770.8774	1934752.0339
PT	169+03.89	615096.3851	1935324.7398
TS	175+11.04	615631.0935	1935612.3457
SC	177+31.04	615826.2376	1935713.8914
CS	188+75.48	616929.7379	1935982.6808
ST	190+95.48	617149.7210	1935982.2514
TS	196+37.94	617692.1206	1935973.7711
SC	197+97.94	617852.1114	1935972.3666
CS	220+66.13	619990.7476	1936625.6689
ST	222+26.13	620122.6428	1936716.2377
POT	227+16.20	620524.7230	1936996.4100

L_L1			
TYPE	STATION	NORTH	EAST
PC	219+50.00	619901.1159	1936549.9765
CS	220+66.58	619999.0682	1936613.1883
ST	222+27.19	620131.4663	1936704.1022
POT	222+50.76	620150.7992	1936717.5748
POT	223+50.76	620232.3934	1936775.3936

L_RT			
TYPE	STATION	NORTH	EAST
PC	219+50.00	619885.2271	1936575.4234
CS	220+65.69	619982.4269	1936638.1496
ST	222+25.06	620113.8029	1936728.3615
POT	222+49.24	620133.6481	1936742.1887
POT	223+49.25	620216.5502	1936798.1304

L_RT2			
TYPE	STATION	NORTH	EAST
POT	172+25.00	615372.0779	1935490.0600
TS	175+11.04	615623.9880	1935625.5560
SC	177+32.27	615820.2231	1935727.6694
PT	188+07.21	616854.0613	1935994.9669

Y9			
TYPE	STATION	NORTH	EAST
POT	10+00.00	614068.0775	1934857.4576
EOB	47+71.26	614403.5949	1938613.7662
EOA	48+07.39	614403.5949	1938613.7662
PT	51+88.65	614532.2426	1938960.9554
EOB	87+33.31	614232.9327	1935428.9578
EOA	15+94.80	614232.9327	1935428.9578

Y9A			
TYPE	STATION	NORTH	EAST
POT	10+00.00	614068.0775	1934857.4576
POT	15+94.80	614232.9327	1935428.9578

Y9B			
TYPE	STATION	NORTH	EAST
POT	47+00.00	614410.3772	1938506.5933
PC	48+07.39	614403.5949	1938613.7662
PT	51+88.65	614532.2426	1938960.9554
POT	52+75.66	614592.9909	1939023.2402

Y10			
TYPE	STATION	NORTH	EAST
POT	10+00.00	613776.7755	1933698.2949
PC	10+36.54	613785.0062	1933733.8952
PT	11+59.86	613814.2646	1933853.6955
POT	21+98.26	614073.0490	1934859.3282

Y11			
TYPE	STATION	NORTH	EAST
POT	10+00.00	616238.6978	1934719.4864
PC	10+63.89	616187.7543	1934758.0460
PT	16+70.58	615820.5022	1935232.1145
POT	20+97.22	615656.1964	1935625.8479

Y12			
TYPE	STATION	NORTH	EAST
POT	10+00.00	615656.1964	1935625.8479
PC	13+67.52	615482.3250	1935949.6394
PT	17+09.29	615386.0434	1936275.0667
PC	30+04.91	615279.2546	1937566.2848
PRC	46+50.26	614592.9909	1939023.2402
PT	52+62.25	614343.2728	1939566.9589
POT	58+57.09	614385.7042	1940160.6088

Y13			
TYPE	STATION	NORTH	EAST
POT	10+00.00	616779.4945	1935974.6373
PC	10+84.14	616794.5771	1936057.4100
PT	12+70.52	616894.5308	1936208.7551
PC	14+82.10	617071.0778	1936325.3546
PT	17+90.51	617330.7743	1936491.6888
POT	19+48.84	617465.2846	1936575.2063

Y14			
TYPE	STATION	NORTH	EAST
POT	10+00.00	616847.3002	1936167.3225
PC	10+29.68	616824.8767	1936186.7638
PT	11+04.85	616776.2782	1936243.7455
POT	11+91.74	616730.4350	1936317.5510

Y7			
TYPE	STATION	NORTH	EAST
POT	10+00.00	612804.6191	1934429.4719
EOB	14+00.00	612677.0477	1934808.5834
EOA	12+51.92	612677.0477	1934808.5834

Y8			
TYPE	STATION	NORTH	EAST
POT	10+00.00	613347.1155	1934610.5712
POT	12+98.10	613250.9840	1934892.7494

SR3			
TYPE	STATION	NORTH	EAST
POT	10+00.00	617217.0368	1935882.0424
PC	11+01.99	617319.0005	1935879.9349
PRC	13+09.48	617525.6853	1935863.1605
PRC	17+77.59	617992.3480	1935860.7245
PRC	20+19.05	618232.2288	1935888.2234
PT	21+23.58	618336.1181	1935899.7835
PC	21+26.94	618339.4488	1935900.1994
PCC	30+27.00	619212.5597	1936110.8371
PT	33+12.70	619476.1292	1936220.8193
PC	34+84.05	619631.0580	1936294.0207
PT	36+39.04	619777.7288	1936342.9791
PC	36+60.33	619798.5775	1936347.2692
PT	37+08.37	619846.0324	1936354.6791
POT	40+29.30	620165.1262	1936388.9033

SR4			
TYPE	STATION	NORTH	EAST
POT	10+00.00	617362.2636	1936066.1585
PC	11+24.96	617487.2110	1936064.7188
PRC	13+12.86	617674.0375	1936081.5673
PRC	16+39.91	617999.3534	1936086.3852
PCC	18+64.82	618223.5224	1936077.3362
PT	23+00.23	618652.4222	1936149.2544
PC	24+14.75	618763.3505	1936177.7180
PT	26+39.58	618978.5311	1936242.6632
PC	28+18.86	619147.8358	1936301.6149
PT	30+00.00	619316.5975	1936367.3235

DR1			
TYPE	STATION	NORTH	EAST
PC	10+00.00	612826.6061	1934283.9579
PRC	10+22.50	612842.6621	1934299.2936
PT	10+79.07	612862.0585	1934347.5079
POT	11+75.00	612831.4622	1934438.4328

DR2			
TYPE	STATION	NORTH	EAST
PC	10+00.00	616497.9379	1936011.3097
PCC	12+62.33	616733.9854	1936125.3268
PRC	13+07.85	616758.8102	1936161.6067
PT	13+51.37	616781.9229	1936196.8709
POT	13+75.00	616802.0012	1936209.3300

DR3			
TYPE	STATION	NORTH	EAST
POT	10+00.00	614441.2116	1938826.0121
PC	10+29.83	614413.8995	1938838.0136
PT	10+95.45	614378.1570	1938889.1548
POT	14+25.00	614357.3431	1939218.0497

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

REVISIONS

- PK NAIL SET
- PK NAIL SET

- PK NAIL SET
- PK NAIL SET
- PK NAIL SET

- PK NAIL SET
- PK NAIL SET
- PK NAIL SET

*NOT SET. FALLS
ON SIGN

- PK NAIL SET
- PK NAIL SET
- PK NAIL SET
- NOT SET. FALLS ON TREE

• NOT SET. FALLS
ON TREE

• CHISELED • X •

•PK NAIL SET

- PK NAIL SET
- PK NAIL SET
- PK NAIL SET
- PK NAIL SET

- PK NAIL SET
- PK NAIL SET
- PK NAIL SET
- PK NAIL SET
- NOT SET, FALLS ON FIRE HYDRANT

•PK NAIL SET

This 8th day of December, 2025.
Signed by:
Richard Mitchell 12/8/2025
Professional Land Surveyor L-5060

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 11/06/2025 TO 11/24/2025.

PROJECT REFERENCE NO.	SHEET NO.
U5727	RW04

Location and Surveys



MCKIM & CREED

4300 EDWARDS MILL RD., SUITE 200
 RALEIGH, NC 27612
 (P) 919-233-8091 (F) 919-233-8031
 F-1222



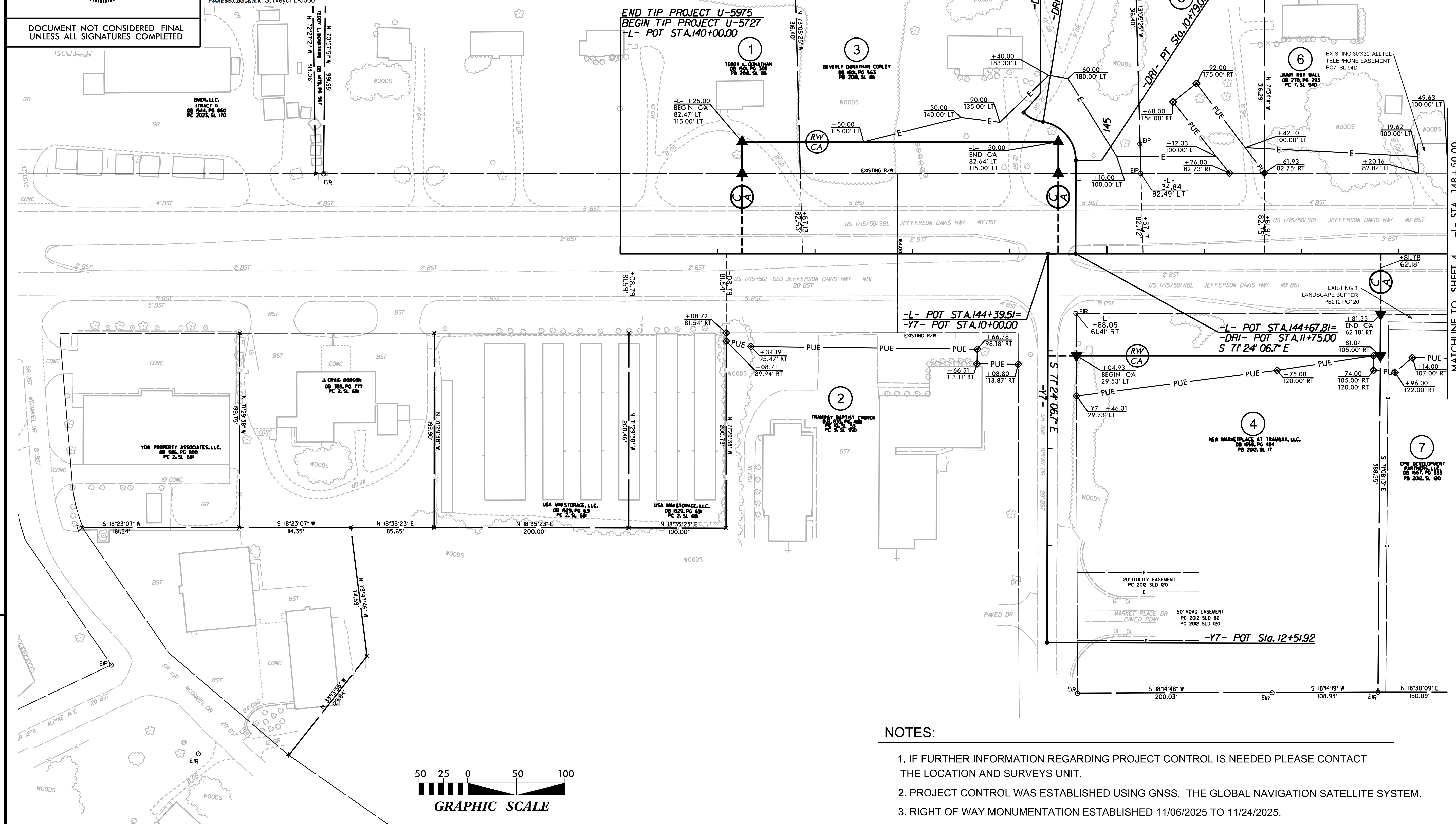
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

I, Richard A. Mitchell, 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 11/06/2023 to 11/24/2025, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 8th day of December, 2025.

Richard Mitchell 12/8/2025
Professional Land Surveyor L-5060

-DRI-	
<i>PI Sta 10+11.56</i>	<i>PI Sta 10+56.68</i>
<i>Δ = 32°13' 36" (LT)</i>	<i>Δ = 8°01' 33" (RT)</i>
<i>D = 143°14' 22.0"</i>	<i>D = 143°14' 22.0"</i>
<i>L = 22.50'</i>	<i>L = 56.57'</i>
<i>T = 11.56'</i>	<i>T = 34.18'</i>
<i>R = 40.00'</i>	<i>R = 40.00'</i>



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 11/06/2025 TO 11/24/2025.

PROJECT REFERENCE NO.
U5727

SHEET NO.
RW05

Location and Surveys

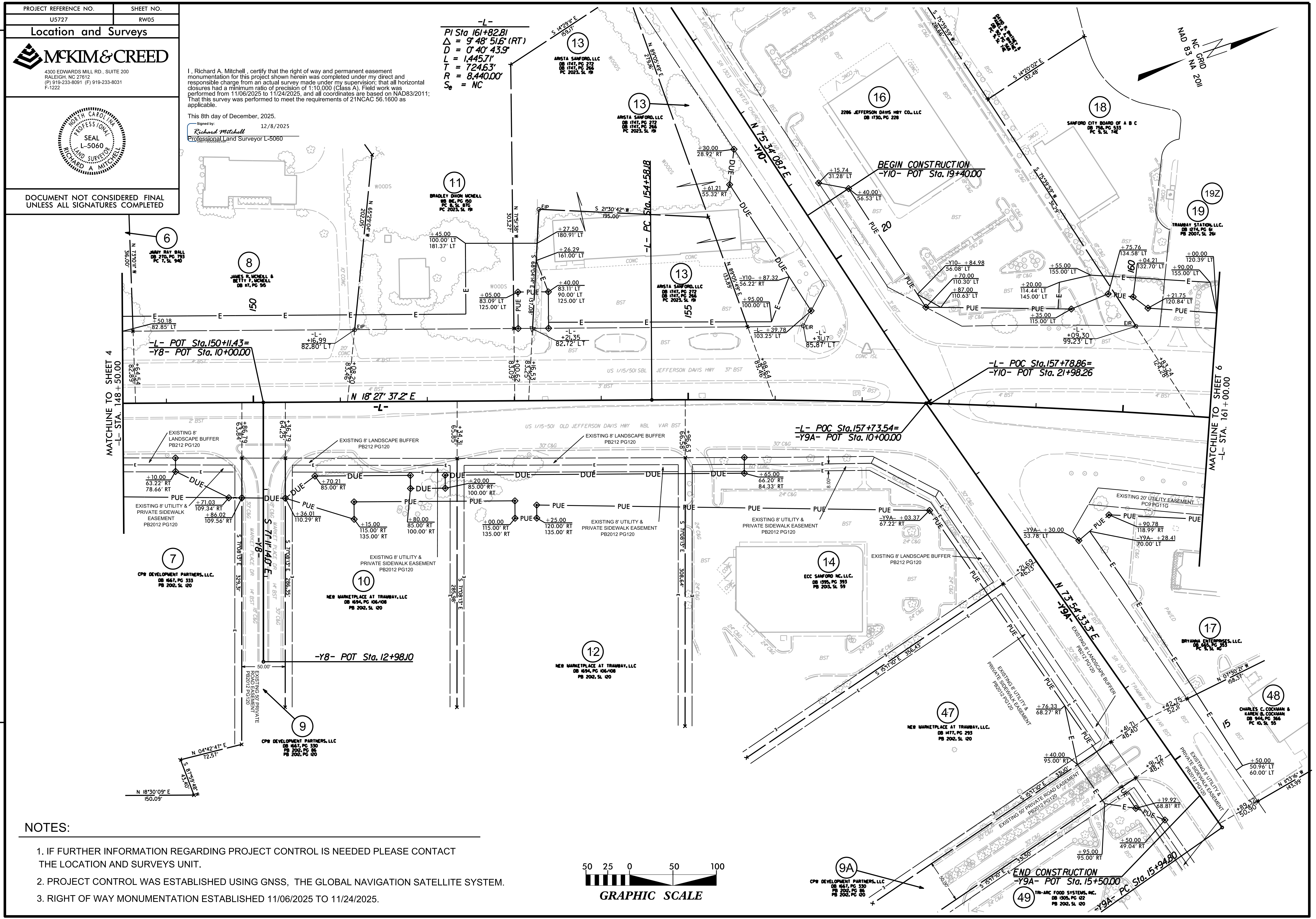
4300 EDWARDS MILL RD., SUITE 200
RALEIGH, NC 27612
(P) 919-233-8091 (F) 919-233-8031
F-1222

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

I, Richard A. Mitchell, 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 11/06/2025 to 11/24/2025, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

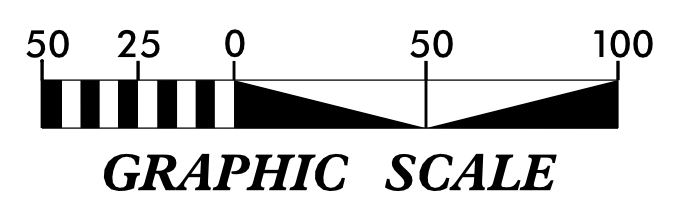
This 8th day of December, 2025.
Signed by: Richard Mitchell 12/8/2025
Professional Land Surveyor L-5060

-L-
PI Sta 161+82.81
 $\Delta = 9^{\circ}48'51.6"$ (RT)
 $D = 0^{\circ}40'43.9"$
 $L = 1,445.71'$
 $T = 724.63'$
 $R = 8,440.00'$
 $S_e = NC$



NOTES:

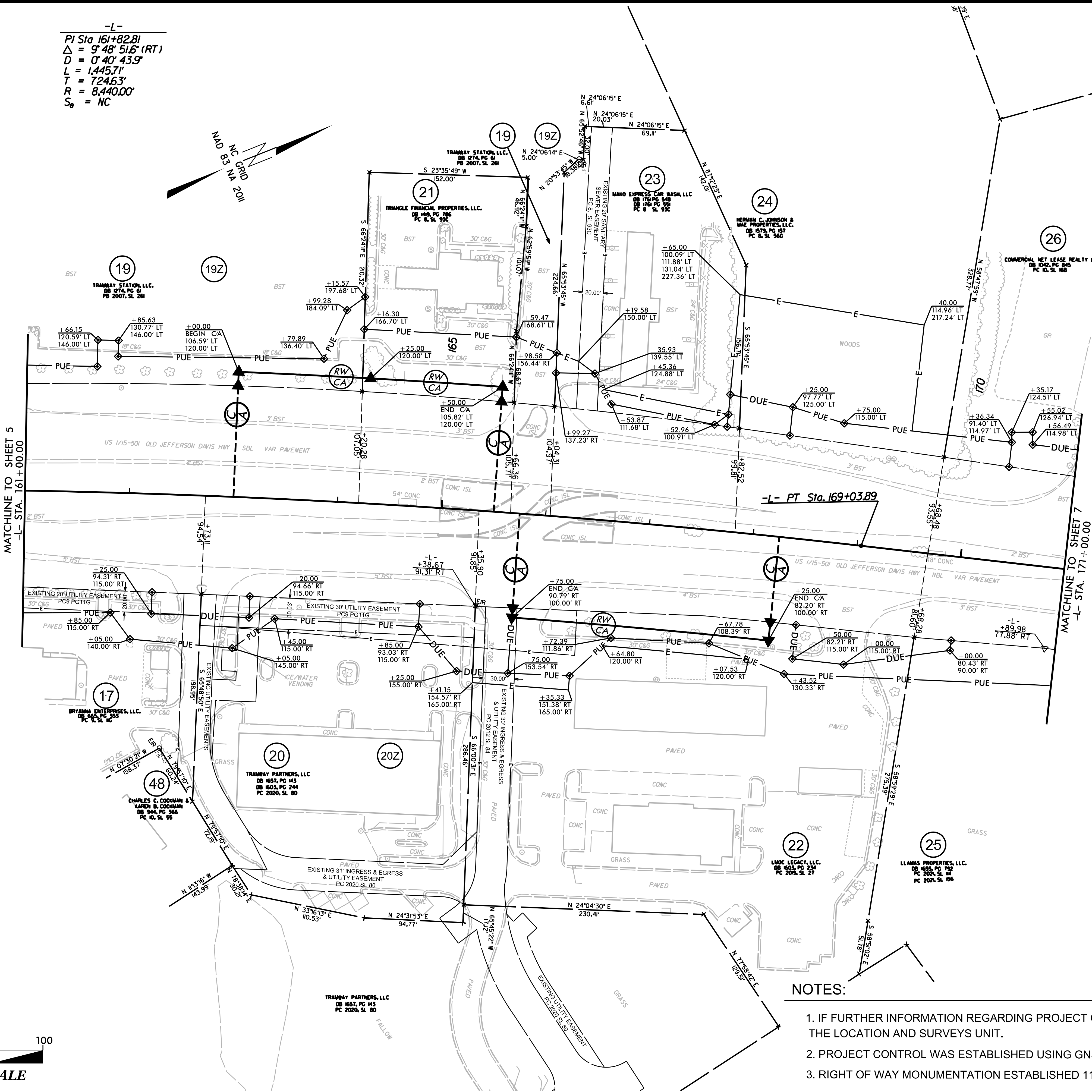
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 11/06/2025 TO 11/24/2025.



I, Richard A. Mitchell, 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 11/06/2025 to 11/24/2025, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 8th day of December, 2025.

Signed by:  12/8/2025
Professional Land Surveyor L-5060
S8176054E01



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 11/06/2025 TO 11/24/2025.

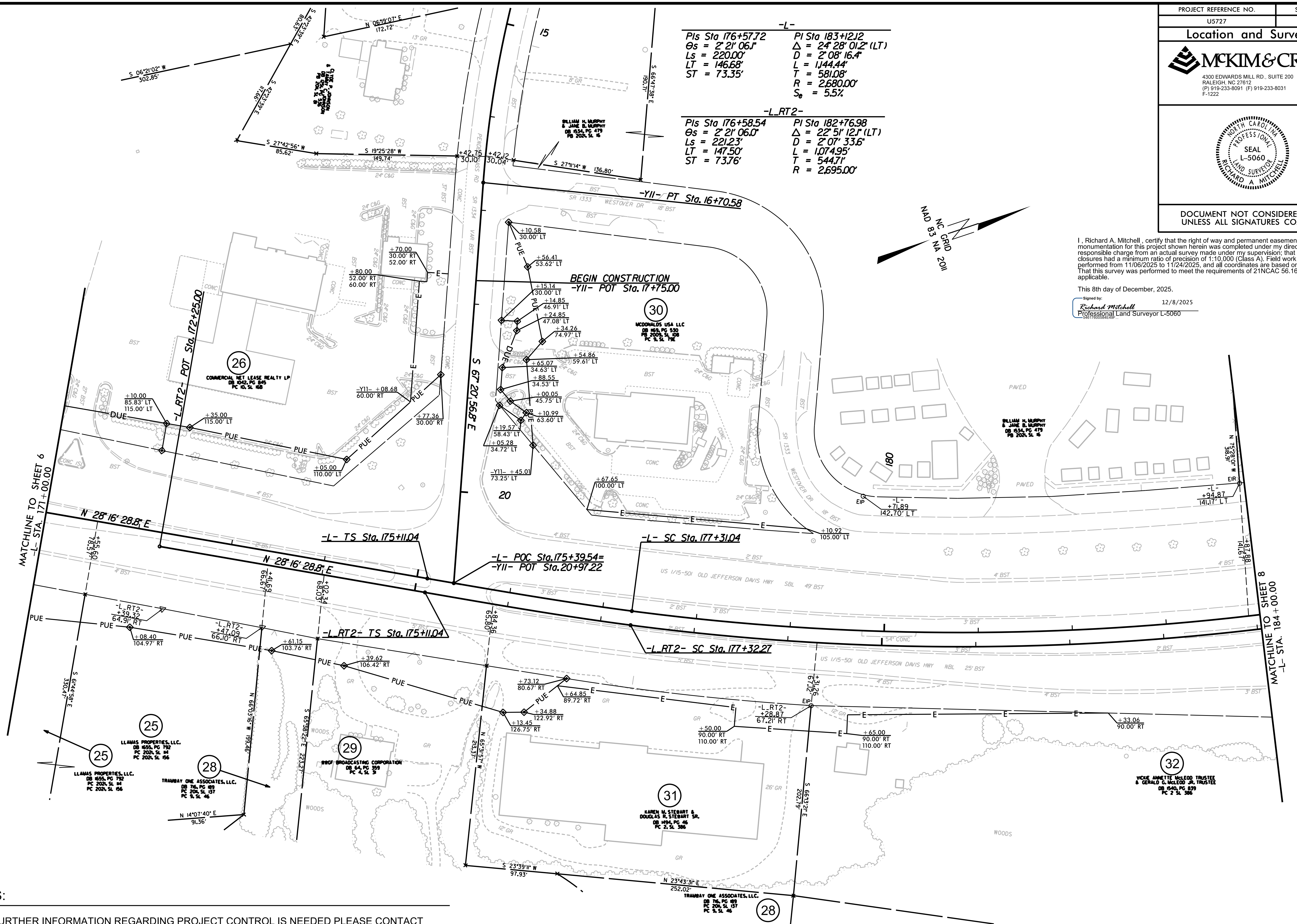
REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
U5727	RW07
Location and Surveys	
 MCKIM & CREED	
4300 EDWARDS MILL RD., SUITE 200 RALEIGH, NC 27612 (P) 919-233-8091 (F) 919-233-8031 F-1222	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Richard A. Mitchell, 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 11/06/2025 to 11/24/2025, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

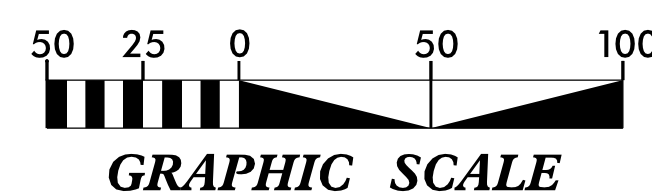
This 8th day of December, 2025.

Signed by: Richard Mitchell 12/8/2025
Professional Land Surveyor L-5060
K617801884E0F



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 11/06/2025 TO 11/24/2025.



REVISIONS

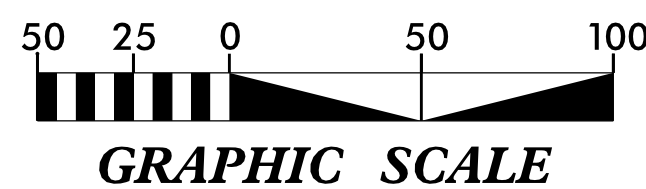
PROJECT REFERENCE NO.	SHEET NO.
U5727	RW08
Location and Surveys	
	
4300 EDWARDS MILL RD., SUITE 200 RALEIGH, NC 27612 (P) 919-233-8091 (F) 919-233-8031 F-1222	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Richard A. Mitchell, 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 11/06/2025 to 11/24/2025, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 8th day of December, 2025.

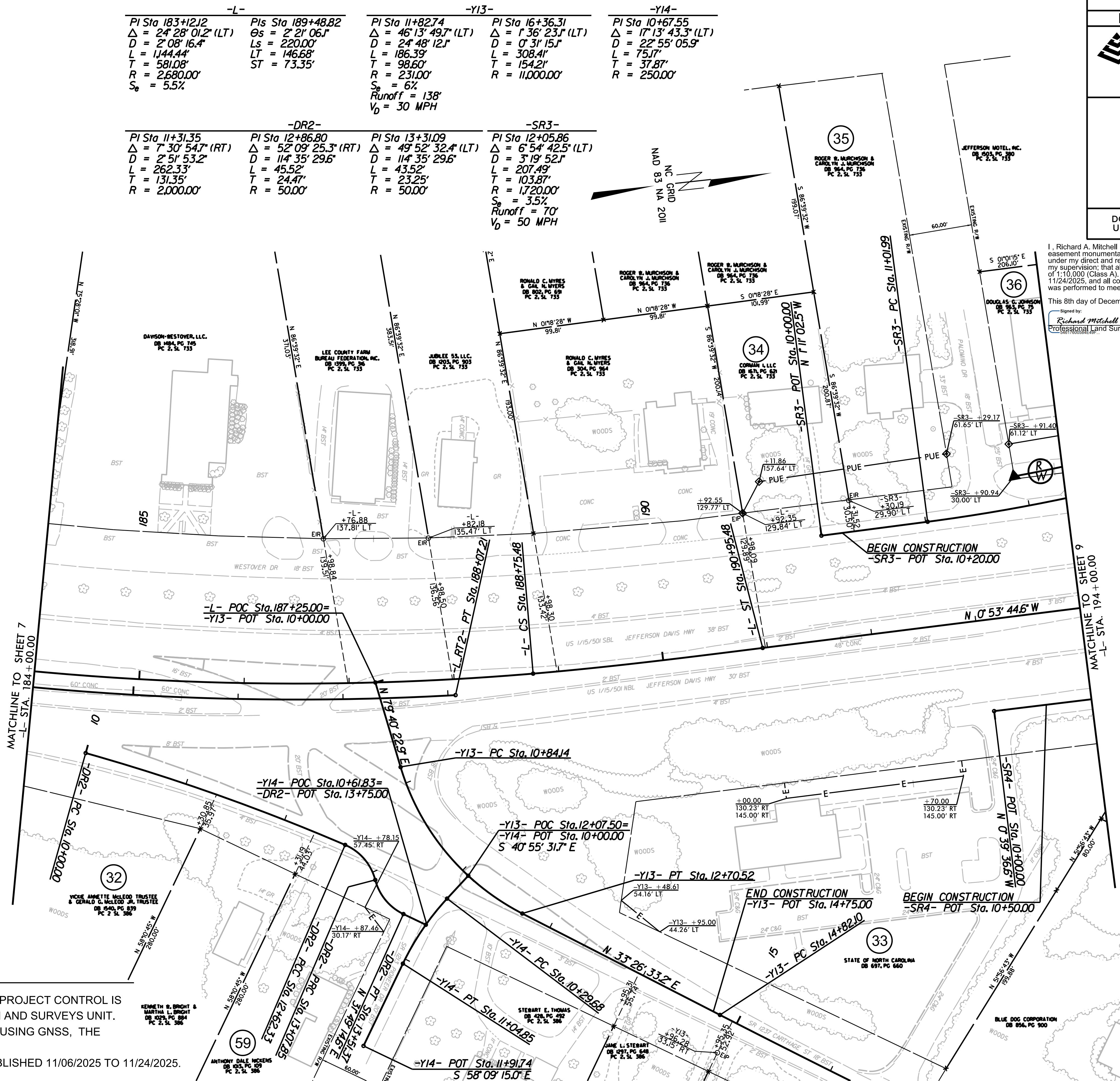
Signed by:
Richard Mitchell
Professional Land Surveyor L-5060

12/8/2025



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 11/06/2025 TO 11/24/2025.



PROJECT REFERENCE NO.
U5727

SHEET NO.
RW09

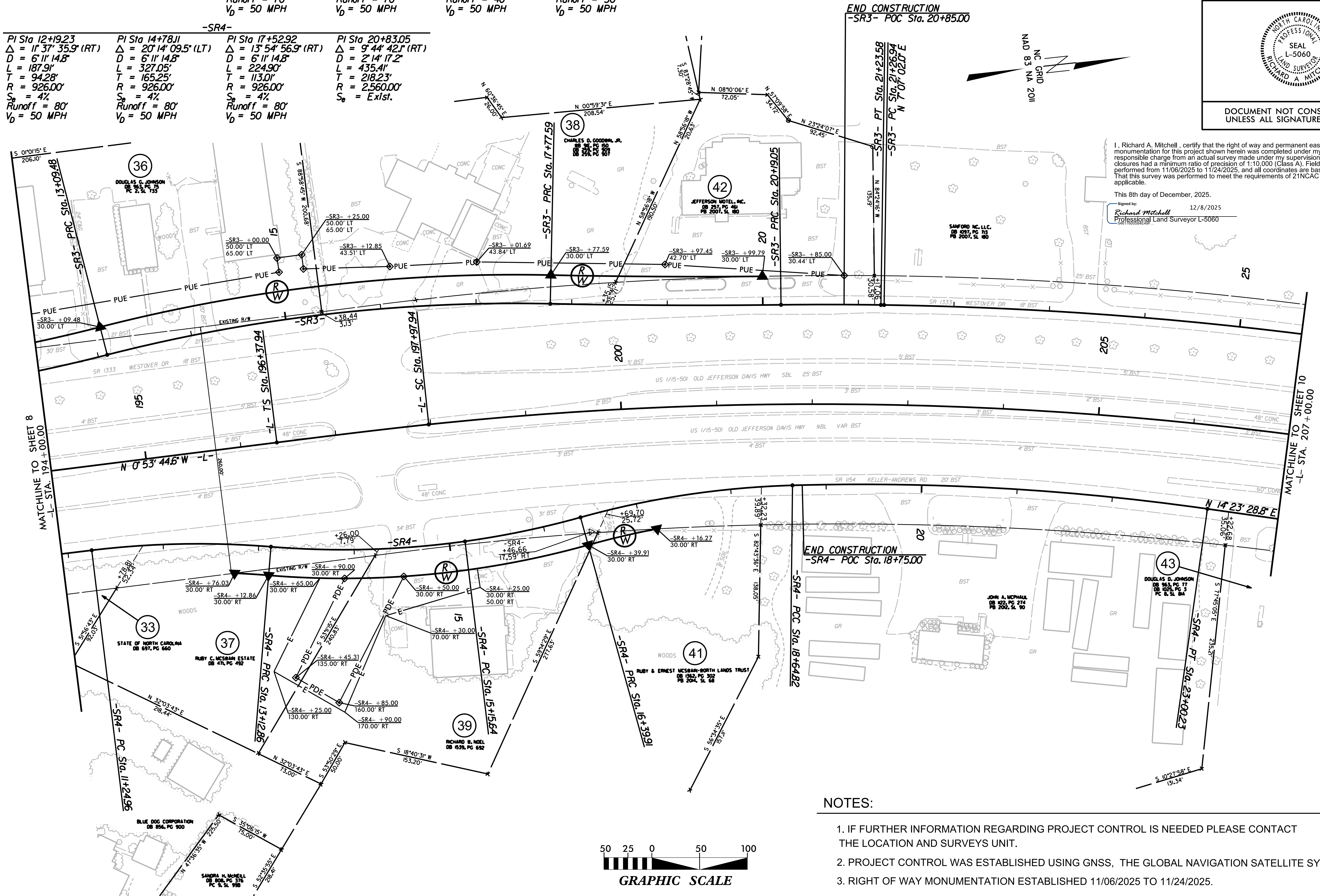
Location and Surveys

4300 EDWARDS MILL RD., SUITE 200
RALEIGH, NC 27612
(P) 919-233-8091 (F) 919-233-8031
F-1222

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

-L-		-SR3-				
PI Sta 197+44.61	PI Sta 209+65.30	PI Sta 12+05.86	PI Sta 15+44.99	PI Sta 18+98.33	PI Sta 20+71.32	PI Sta 25+78.88
Δs = 1°10' 41.9"	Δ = 33°24' 29.4" (RT)	Δ = 6°54' 42.5" (LT)	Δ = 15°35' 36.7" (RT)	Δ = 1°54' 58.2" (LT)	Δ = 1°32' 08.6" (RT)	Δ = 12°53' 32.5" (RT)
Ls = 160.00'	D = 1°28' 22.4"	D = 3°19' 52.1"	D = 3°19' 52.1"	D = 0°47' 36.9"	D = 1°28' 08.8"	D = 1°25' 56.6"
LT = 106.67'	L = 2268.19'	L = 207.49'	L = 468.11'	L = 241.46'	L = 104.53'	L = 900.06'
ST = 53.34'	T = 1467.36'	T = 103.87'	T = 235.51'	T = 120.74'	T = 52.27'	T = 451.94'
	R = 3,890.00'	R = 1720.00'	R = 1720.00'	R = 7220.00'	R = 3900.00'	R = 4000.00'
	S _e = 4%	S _e = 3.5%	S _e = 3.5%	S _e = NC	S _e = 2.5%	S _e = Exlst.
	Runoff = 70'	Runoff = 70'	Runoff = 70'	Runoff = 40'	Runoff = 30'	
	V _D = 50 MPH	V _D = 50 MPH	V _D = 50 MPH	V _D = 50 MPH	V _D = 50 MPH	

-SR4-			
PI Sta 12+19.23	PI Sta 14+78.11	PI Sta 17+52.92	PI Sta 20+83.05
Δ = 1°37' 35.9" (RT)	Δ = 20°14' 09.5" (LT)	Δ = 13°54' 56.9" (RT)	Δ = 9°44' 42.1" (RT)
D = 6°11' 14.8"	D = 6°11' 14.8"	D = 6°11' 14.8"	D = 2°14' 17.2"
L = 187.91'	L = 327.05'	L = 224.90'	L = 435.41'
T = 94.28'	T = 165.25'	T = 113.01'	T = 218.23'
R = 926.00'	R = 926.00'	R = 926.00'	R = 2560.00'
S _e = 4%	S _e = 4%	S _e = 4%	S _e = Exlst.
Runoff = 80'	Runoff = 80'	Runoff = 80'	
V _D = 50 MPH	V _D = 50 MPH	V _D = 50 MPH	



I, Richard A. Mitchell, 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 11/06/2025 to 11/24/2025, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 8th day of December, 2025.
Signed by:
Richard Mitchell
Professional Land Surveyor L-5060

PROJECT REFERENCE NO.
U5727

SHEET NO.
RW10

Location and Surveys

**MCKIM & CREED**

4300 EDWARDS MILL RD., SUITE 200
RALEIGH, NC 27612
(P) 919-233-8091 (F) 919-233-8031
F-1222



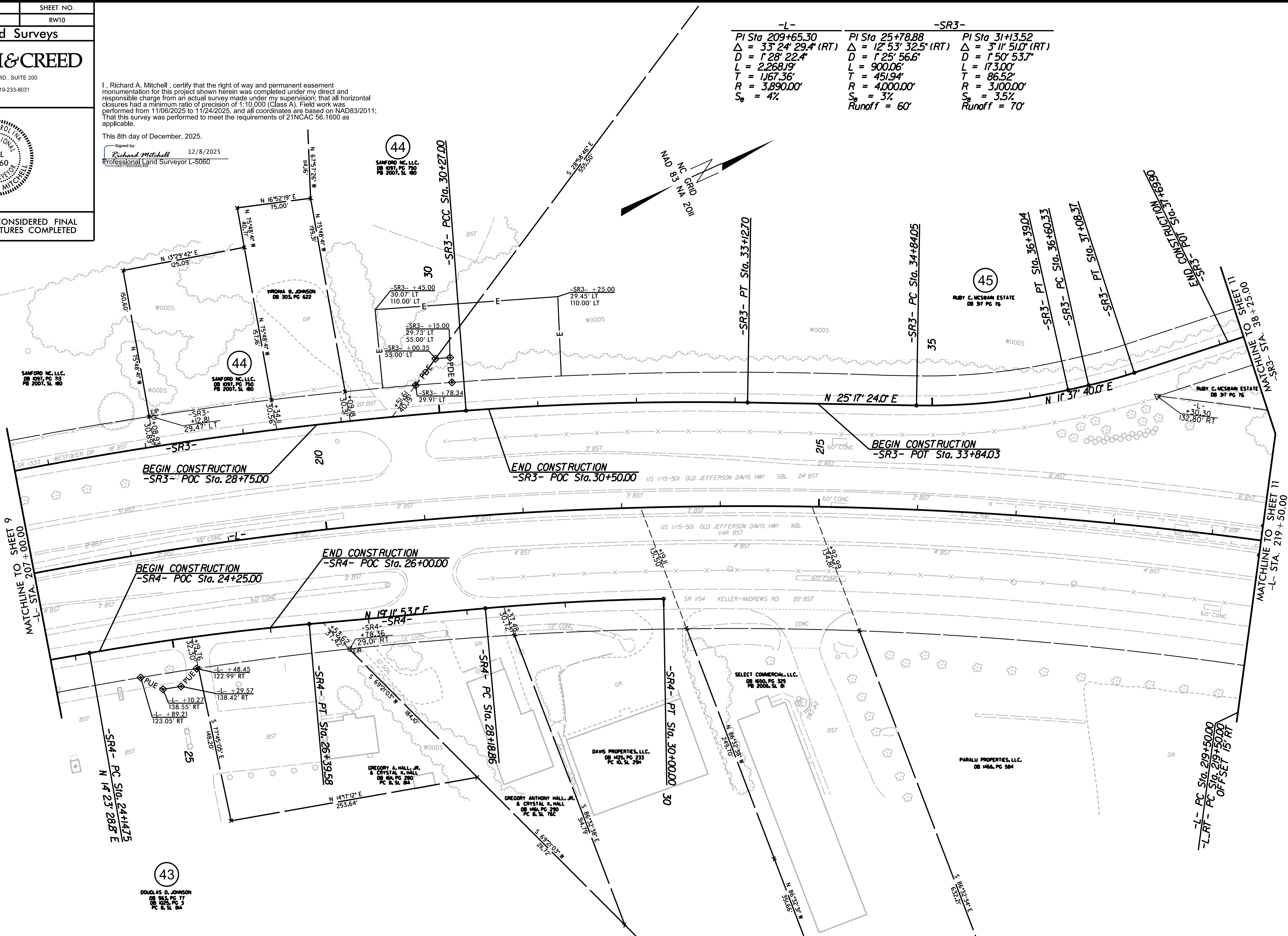
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

I, Richard A. Mitchell, 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 11/06/2025 to 11/24/2025, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

This 8th day of December, 2025.

Signed by:
Richard Mitchell 12/8/2025
Professional Land Surveyor L-5060

REVISIONS



NOTES:

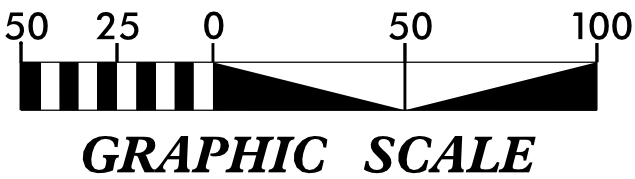
1. IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
3. RIGHT OF WAY MONUMENTATION ESTABLISHED 11/06/2025 TO 11/24/2025.

-L-
PI Sta 25+27.23
 $\Delta = 4' 48' 24.2''$ (RT)
 $D = 2' 08' 16.4''$
 $L = 224.83'$
 $T = 112.48'$
 $R = 2,680.00'$
 $S_e = 3.5\%$
Runoff = 70'

-L-
PI Sta 31+69.95
 $\Delta = 5' 16' 49.4''$ (RT)
 $D = 1' 50' 53.7''$
 $L = 285.70'$
 $T = 142.95'$
 $R = 3,100.00'$
 $S_e = \text{Exlst.}$

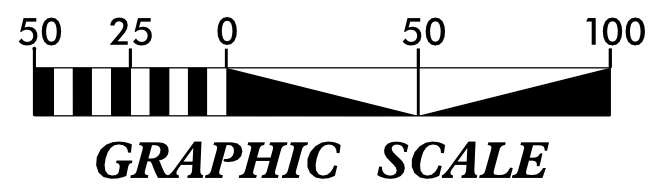
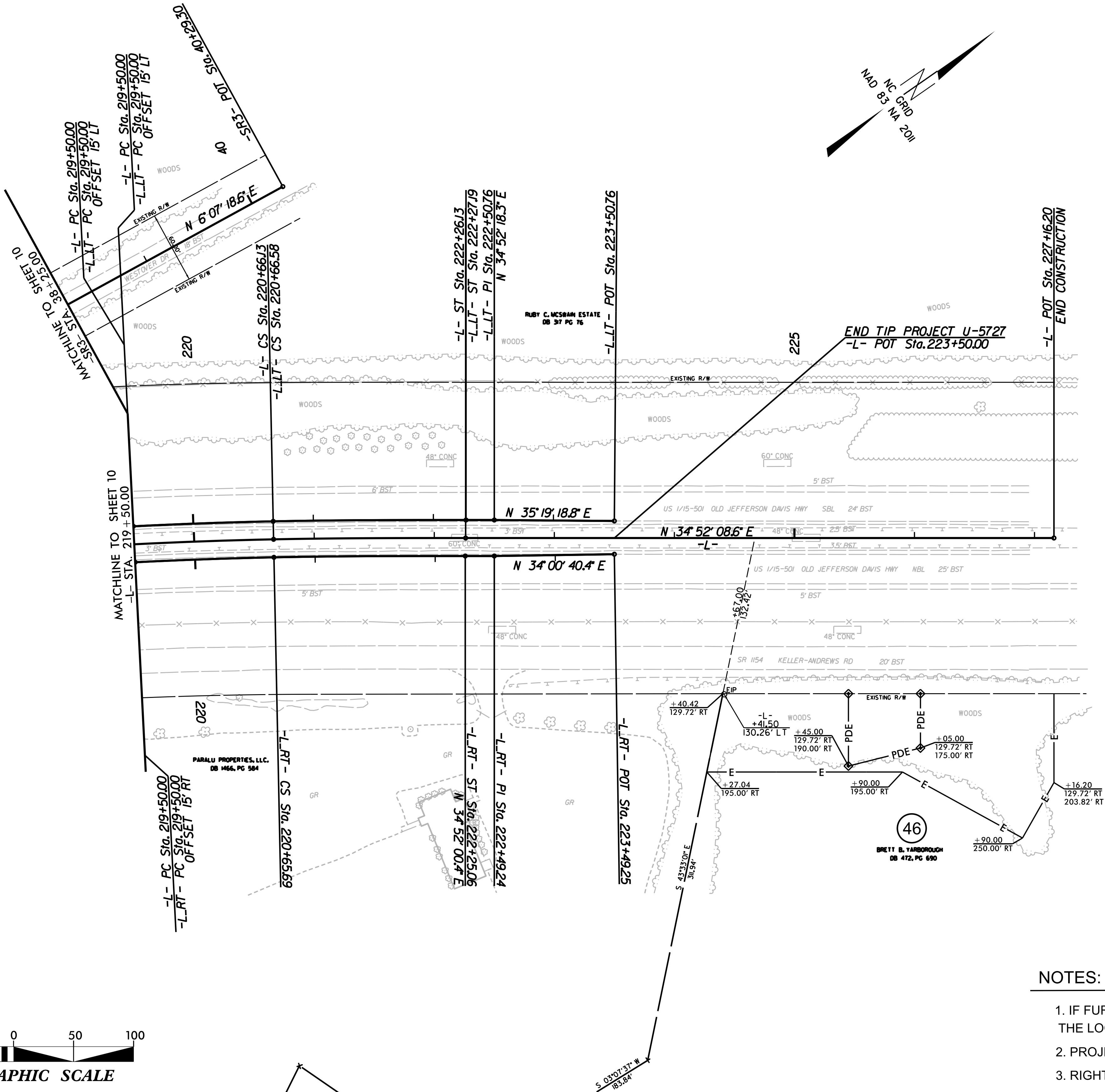
-L-
PI Sta 35+61.91
 $\Delta = 13' 39' 44.0''$ (LT)
 $D = 8' 48' 53.0''$
 $L = 154.99'$
 $T = 77.87'$
 $R = 650.00'$
 $S_e = \text{Exlst.}$

-L-
PI Sta 36+84.37
 $\Delta = 5' 30' 21.4''$ (LT)
 $D = 1' 27' 33.0''$
 $L = 48.05'$
 $T = 24.04'$
 $R = 500.00'$
 $S_e = \text{Exlst.}$



REVISIONS

-L-		-L-LT-		-L-RT-	
PI Sta. 209+65.30	Pls Sta. 221+19.47	PI Sta. 220+08.30	Pls Sta. 221+20.12	PI Sta. 220+07.85	Pls Sta. 221+18.81
$\Delta = 33^{\circ}24'29.4"$ (RT)	$\Theta_s = 1^{\circ}10'41.9"$	$\Delta = 1^{\circ}42'37.9"$ (RT)	$\Theta_s = 1^{\circ}10'41.8"$	$\Delta = 1^{\circ}42'37.9"$ (RT)	$\Theta_s = 1^{\circ}10'41.6"$
$D = 1^{\circ}28'22.4"$	$Ls = 160.00'$	$D = 1^{\circ}28'02.1"$	$Ls = 160.61'$	$D = 1^{\circ}28'43.0"$	$Ls = 159.37'$
$L = 2,268.19'$	$LT = 106.67'$	$L = 116.58'$	$LT = 107.08'$	$L = 115.69'$	$LT = 106.25'$
$T = 1167.36'$	$ST = 53.34'$	$T = 58.30'$	$ST = 53.54'$	$T = 57.85'$	$ST = 53.13'$
$R = 3,890.00'$		$R = 3,905.00'$		$R = 3,875.00'$	
$S_e = 4\%$					



PROJECT REFERENCE NO.	SHEET NO.
U5727	RW11
Location and Surveys	
	
4300 EDWARDS MILL RD., SUITE 200 RALEIGH, NC 27612 (P) 919-233-8091 (F) 919-233-8031 F-1222	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

I, Richard A. Mitchell, 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 11/06/2025 to 11/24/2025, and all coordinates are based on NAD83/2011; That this survey was performed to meet the requirements of 21NCAC 56.1600 as applicable.

Signed by: Richard Mitchell 12/8/2025
Professional Land Surveyor L-5060

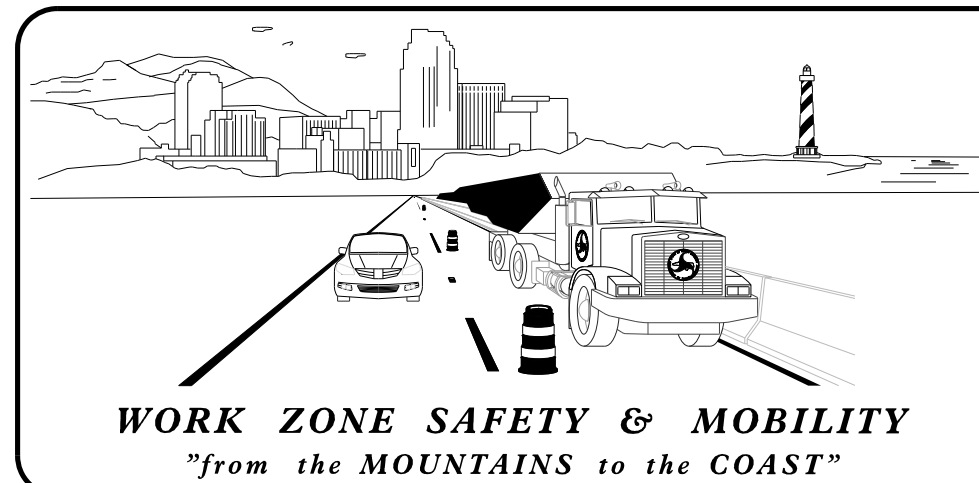
NOTES:

- IF FURTHER INFORMATION REGARDING PROJECT CONTROL IS NEEDED PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.
- RIGHT OF WAY MONUMENTATION ESTABLISHED 11/06/2025 TO 11/24/2025.

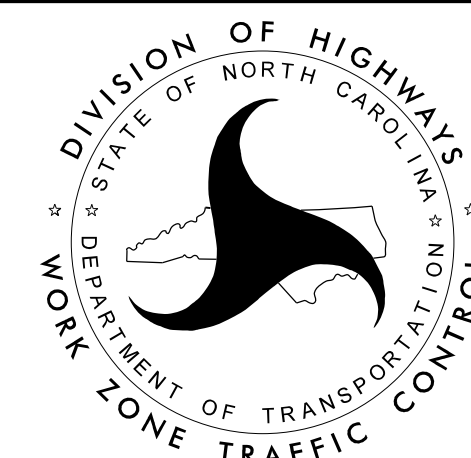
TRANSPORTATION MANAGEMENT PLAN

LOCATION: US 1/15 /501 FROM SOUTH OF SR 1198
(BRYAN DRIVE) TO OF SR 1237 (CARTHAGE ST)

A map of North Carolina showing its county boundaries. Wayne County, located in the central-eastern part of the state, is highlighted in black. The surrounding counties are shown in white with black outlines. The map includes the state's coastline and major geographical features like the Pamlico River and the Tar River.



JEFFREY STRODER, PE
DIVISION 8 PROJECT ENGINEER



TIP PROJECT: U-5727A - WBS 54018.3.2

GENERAL NOTES

PROJ. REFERENCE NO.	SHEET NO.
U-5727A	TMP - 1A

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRE

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

MANAGEMENT STRATEGIES

THE FOLLOWING LISTED WORK ZONE STRATEGIES ARE RECOMMENDED FOR INCLUSION WITHIN THIS TRANSPORTATION MANAGEMENT PLAN (TMP).

RECOMMENDED STRATEGIES:

TRAFFIC MANAGEMENT STRATEGIES:

FULL ROADWAY CLOSURES
LANE SHIFTS OR CLOSURES
SHOULDER CLOSURES
ONE-LANE, TWO WAY OPERATION (FLAGGING)
NIGHT WORK
WEEKEND WORK
WORK HOUR RESTRICTIONS FOR PEAK TRAVEL
OFF-SITE DETOURS / USE OF ALTERNATIVE ROUTES

WORK ZONE SAFETY & MOBILITY STRATEGIES:

SPEED LIMIT REDUCTION
TEMPORARY TRAFFIC SIGNALS
PRESENCE LIGHTING

LOCAL NOTES

- NOTIFY THE ENGINEER AT LEAST 30 DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.
- NOTIFY THE LEE COUNTY SCHOOLS TRANSPORTATION DIRECTOR 30 DAYS PRIOR TO ROAD CLOSURE.
- NOTIFY THE LEE COUNTY EMERGENCY MANAGEMENT SERVICES DIRECTOR 30 DAYS PRIOR TO ROAD CLOSURE.
- REFERENCE UTILITY CONSTRUCTION PLANS FOR WATER DESIGN.
- ACCESS TO ALL BUSINESSES AND RESIDENCES WITHIN THE PROJECT LIMITS MUST BE MAINTAINED AT ALL TIMES.

TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME

DAY AND TIME RESTRICTIONS

US-1/15-501 (JEFFERSON DAVIS HIGHWAY) MONDAY THRU FRIDAY 6-9AM AND 4-7PM

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL EVENTS AS FOLLOWS:

ROAD NAME

US-1/15-501 (JEFFERSON DAVIS HIGHWAY)

HOLIDAY

- FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
- FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
- FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
- FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY.

IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 THE TUESDAY AFTER INDEPENDENCE DAY.
- FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
- FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
- FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER.
- D) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- E) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

LANE AND SHOULDER CLOSURE REQUIREMENTS (CONTD.)

- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- H) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.

PAVEMENT EDGE DROP OFF REQUIREMENTS

I) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

J) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 350 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

K) NOTIFY THE ENGINEER THIRTY (30) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

L) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

M) PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS.

N) COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

O) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.

P) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 350 FT IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES

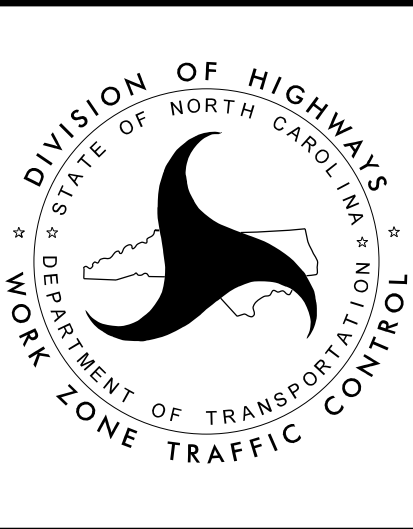
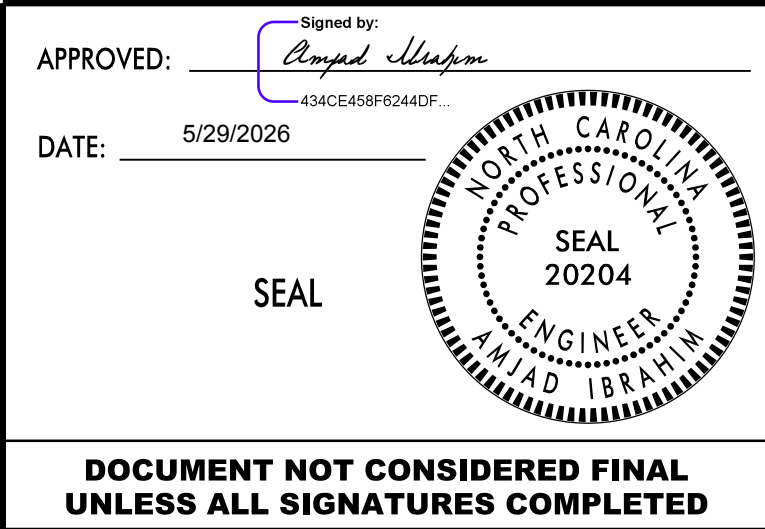
Q) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.

R) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.

S) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

T) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.

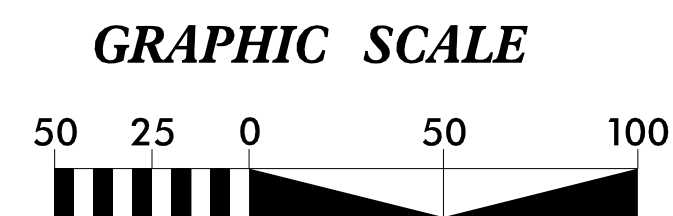
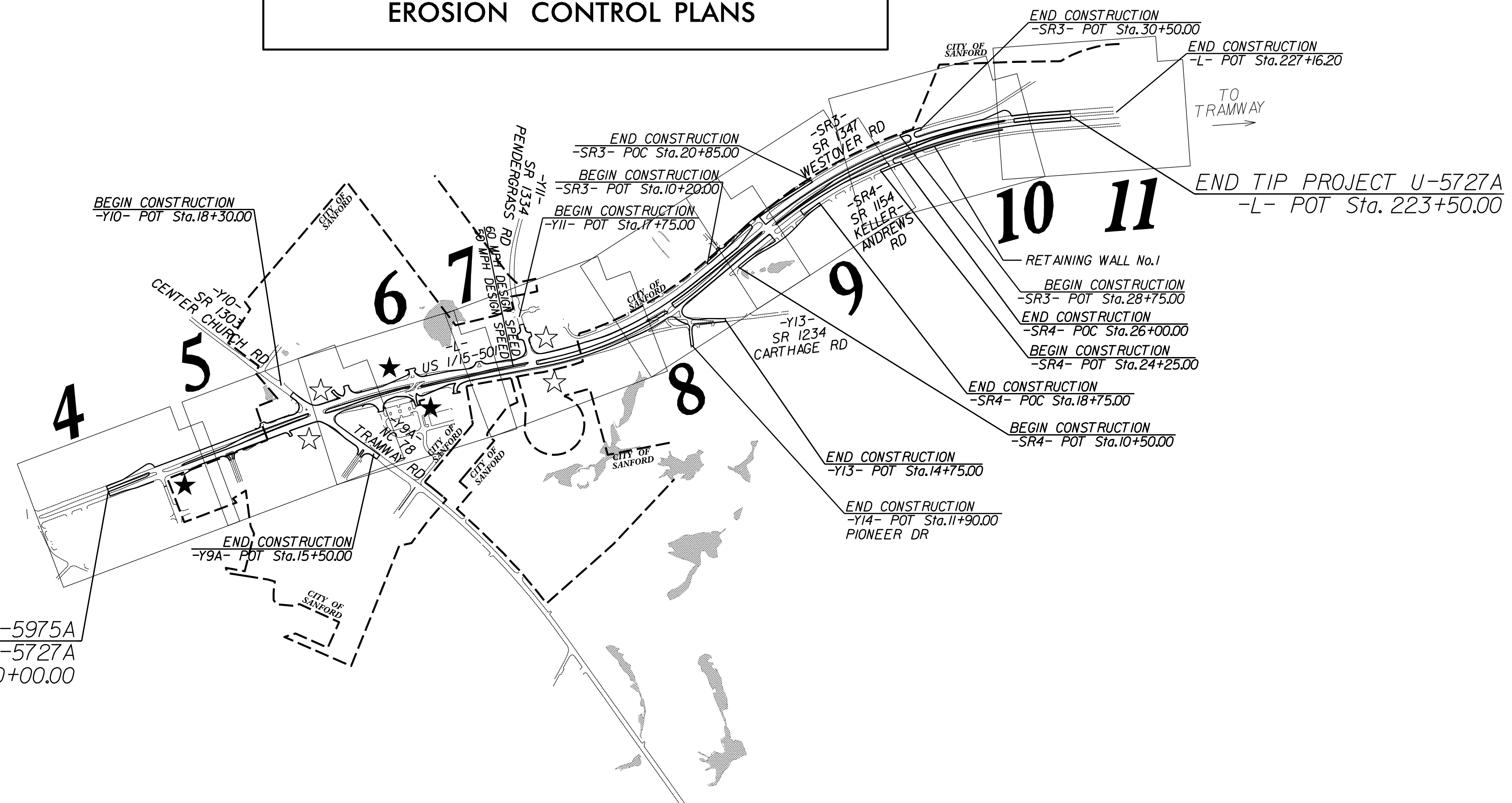


TRANSPORTATION
OPERATIONS
PLAN

3/27/2026
...Design\U-5727-REU-EC-TSH.dgn
USER:default

NAD 83/NA 2011

**THIS PROJECT CONTAINS
EROSION CONTROL PLANS
FOR CLEARING AND
GRUBBING PHASE OF
CONSTRUCTION.**



4036

LEVEL III CERTIFICATION NO.

The "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2024 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
U-5727A	EC-02
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

EROSION & SEDIMENT CONTROL LEGEND

Std. #	Description	Symbol	Std. #	Description	Symbol
1605.01	Temporary Silt Fence		1633.01	Temporary Rock Silt Check Type A	
1606.01	Special Sediment Control Fence		1633.02	Temporary Rock Silt Check Type B	
1622.01	Temporary Berms and Slope Drains		1633.03	Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant	
1630.02	Silt Basin Type B		1634.01	Temporary Rock Sediment Dam Type A	
1630.03	Temporary Silt Ditch		1634.02	Temporary Rock Sediment Dam Type B	
1630.04	Stilling Basin		1635.01	Rock Pipe Inlet Sediment Trap Type A	
1630.05	Temporary Diversion		1635.02	Rock Pipe Inlet Sediment Trap Type B	
1630.06	Special Stilling Basin		1636.01	Excelsior Wattle Check	
1630.07	Skimmer Basin		1636.01	Excelsior Wattle Check with Flocculant	
1630.08	Tiered Skimmer Basin		1636.01	Coir Fiber Wattle Check	
1630.09	Earthen Dam with Skimmer		1636.01	Coir Fiber Wattle Check with Flocculant	
	Infiltration Basin		1636.02	Silt Fence Excelsior Wattle Break	
	Rock Inlet Sediment Trap:			Silt Fence Coir Fiber Wattle Break	
1632.01	Type A		1636.03	Excelsior Wattle Barrier	
1632.02	Type B		1636.03	Coir Fiber Wattle Barrier	
1632.03	Type C				

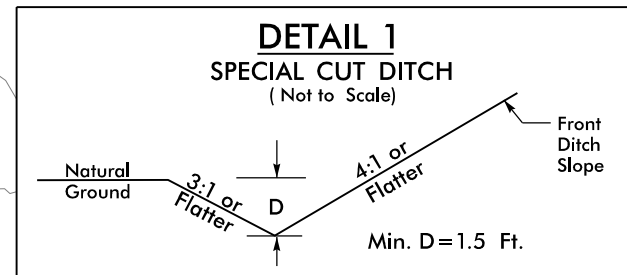
SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 TO 4:1	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH WITH SLOPES STEEPER THAN 4:1. 7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES

5/14/99

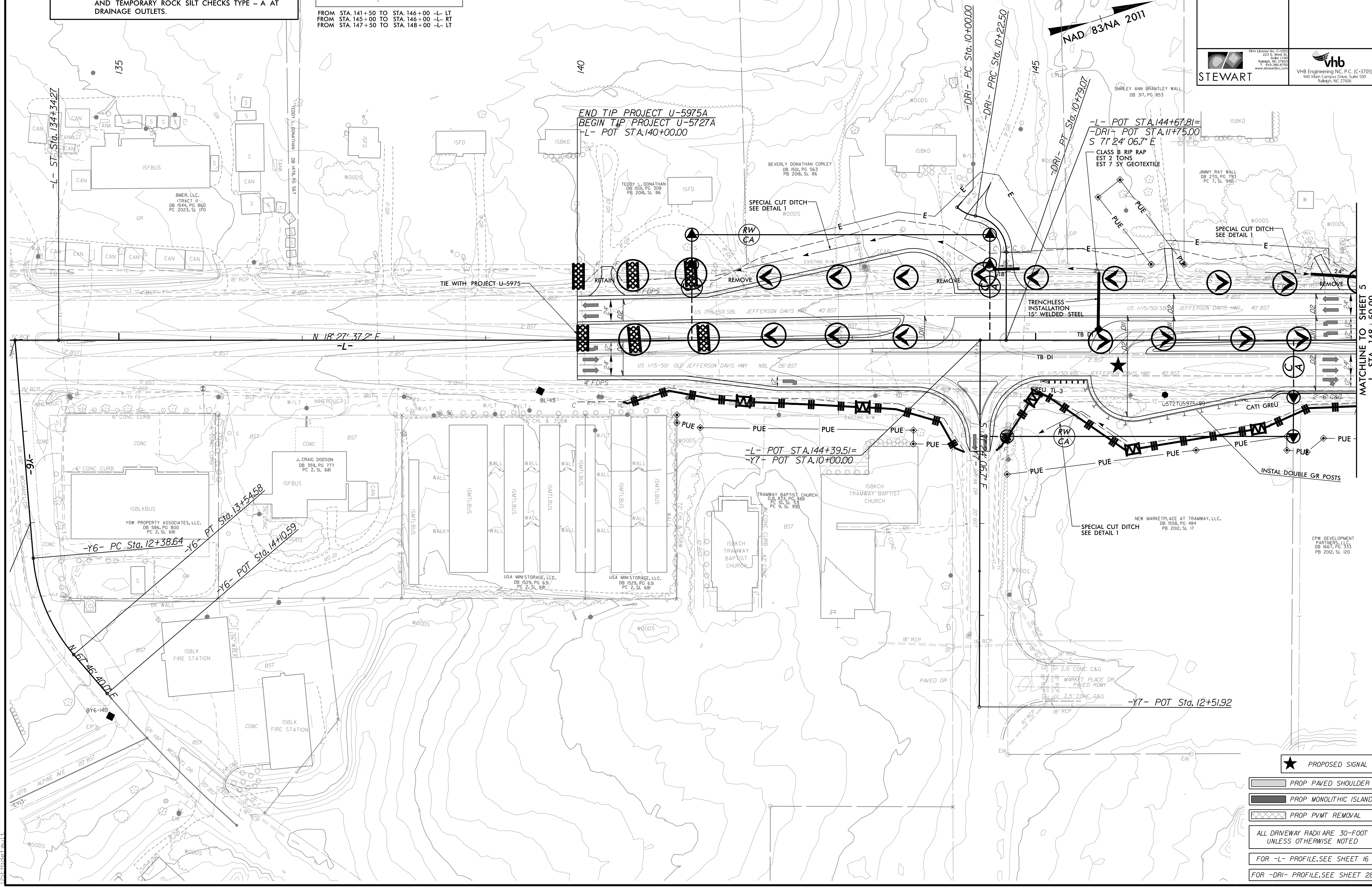
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.



FROM STA. 141+50 TO STA. 146+00 -L- LT
FROM STA. 145+00 TO STA. 146+00 -L- RT
FROM STA. 147+50 TO STA. 148+00 -L- LT

PROJECT REFERENCE NO. U-5727A		SHEET NO. EC-04/CONST.04	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
 STEWART		 VHB VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606	

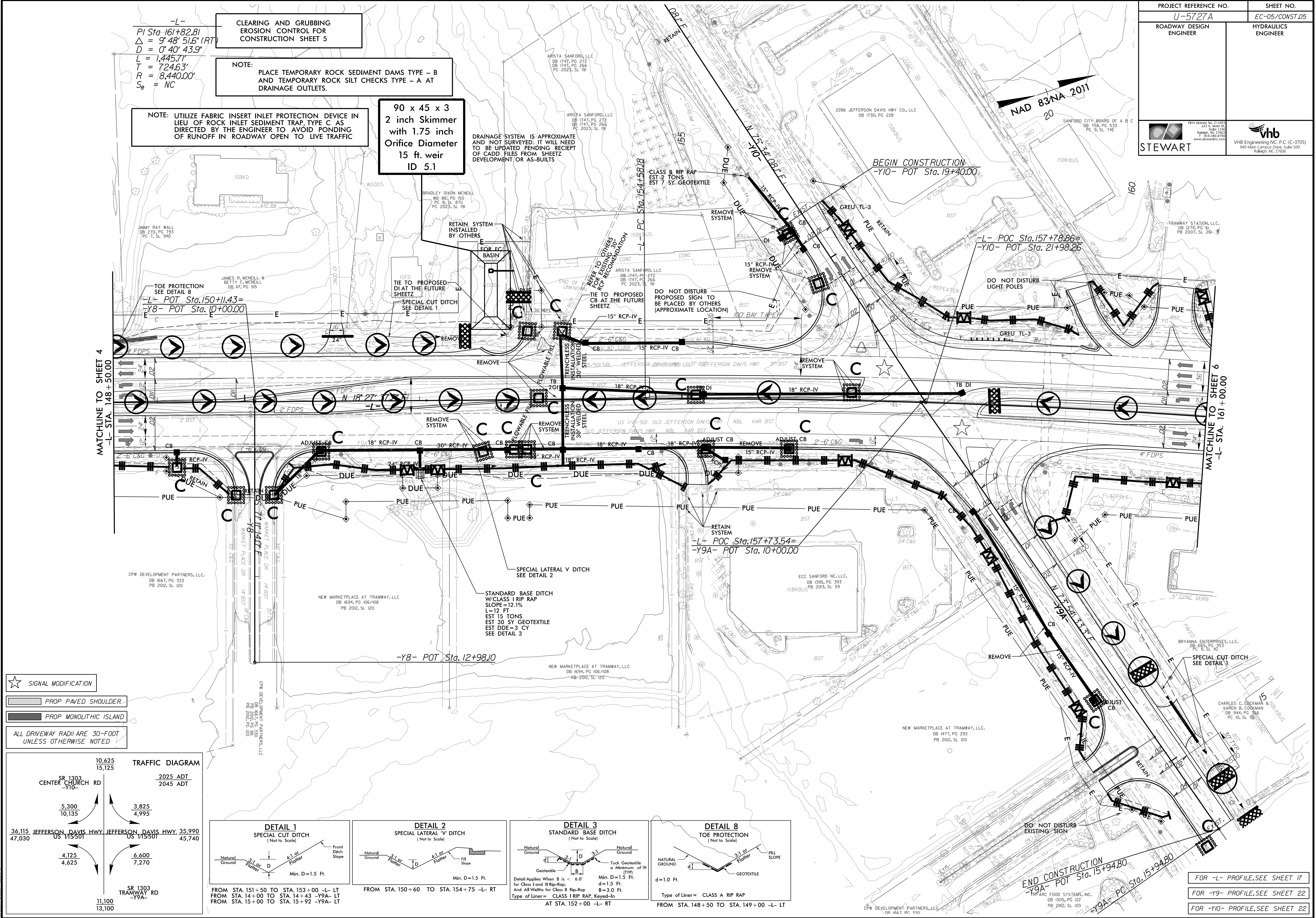


3/21/2025 REU.LC_PSH04.CG.dgn
USER:reulc

- ★ PROPOSED SIGNAL
- PROP PAVED SHOULDER
- PROP MONOLITHIC ISLAND
- PROP P/VMT REMOVAL
- ALL DRIVEWAY RADII ARE 30-FOOT
UNLESS OTHERWISE NOTED
- FOR -L- PROFILE, SEE SHEET 16
- FOR -DRI- PROFILE, SEE SHEET 28

5/14/2025

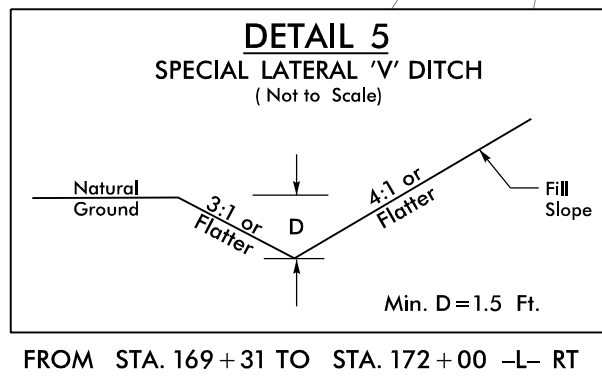
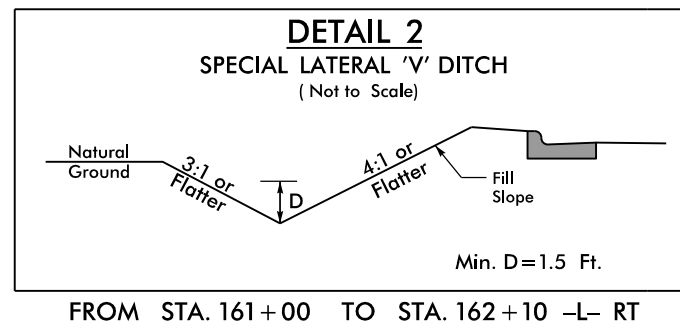
3/12/2025 RELLEC_PSH05.CG.dgn



5/14/2025

3/12/2025 - REULEC_PSH06.CG.dgn
USER: default

-L-
PI Sta 161+82.81
 $\Delta = 9' 48" 51.6" (RT)$
 $D = 0' 40" 43.9"$
 $L = 1,445.71'$
 $T = 724.63'$
 $R = 8,440.00'$
 $S_b = NC$



CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

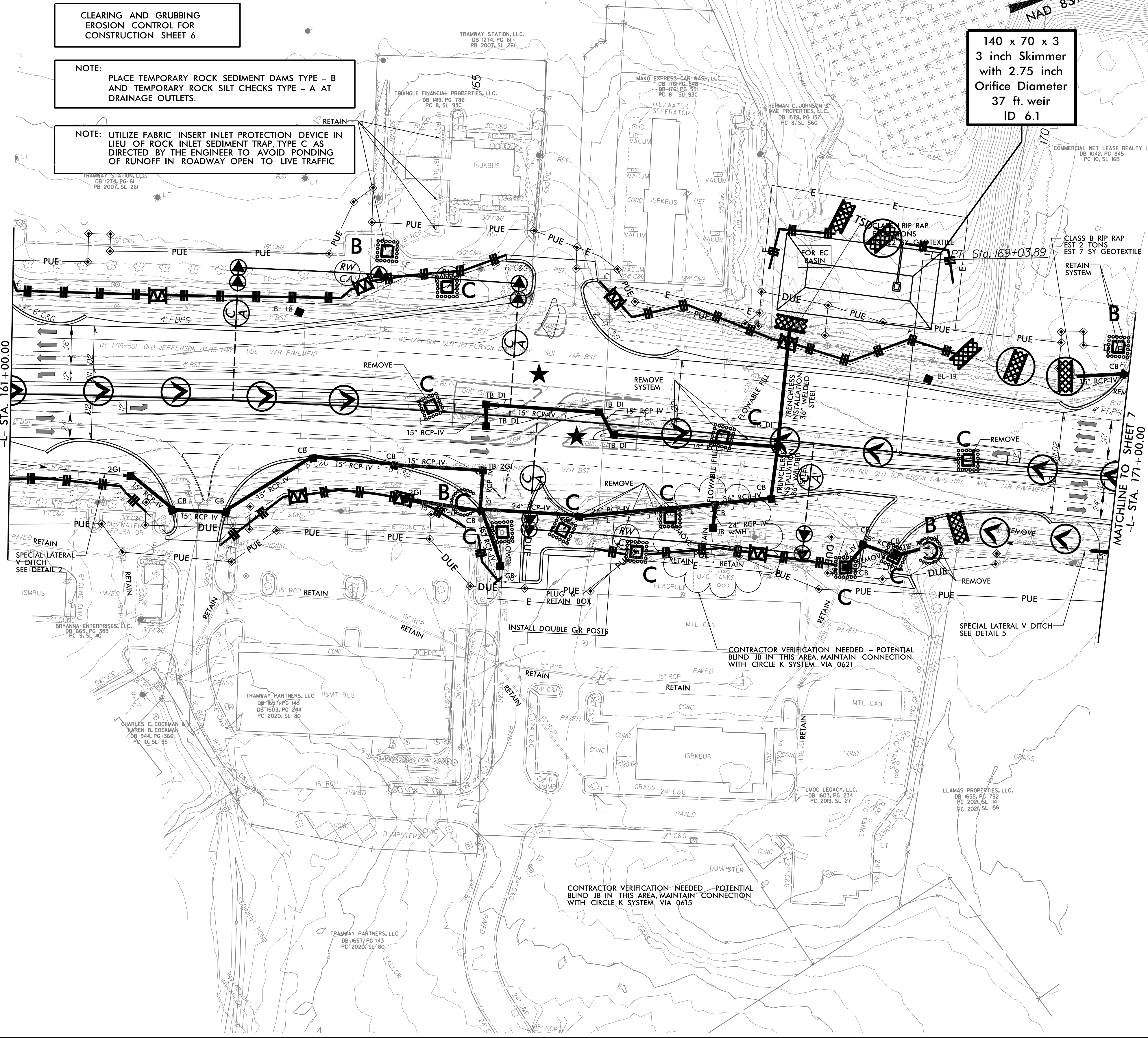
NOTE: UTILIZE FABRIC INSERT INLET PROTECTION DEVICE IN
LIEU OF ROCK INLET SEDIMENT TRAP TYPE C AS
DIRECTED BY THE ENGINEER TO AVOID PONDING
OF RUNOFF IN ROADWAY OPEN TO LIVE TRAFFIC

140 x 70 x 3
3 inch Skimmer
with 2.75 inch
Orifice Diameter
37 ft. weir
ID 6.1

MATCHLINE TO SHEET 5
-L- STA. 161+00.00

MATCHLINE TO SHEET 7
-L- STA. 171+00.00

PROJECT REFERENCE NO.		SHEET NO.	
U-5727A		EC-06/CONST.06	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
 STEWART		 VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606	



★ PROPOSED SIGNAL

PROP PAVED SHOULDER

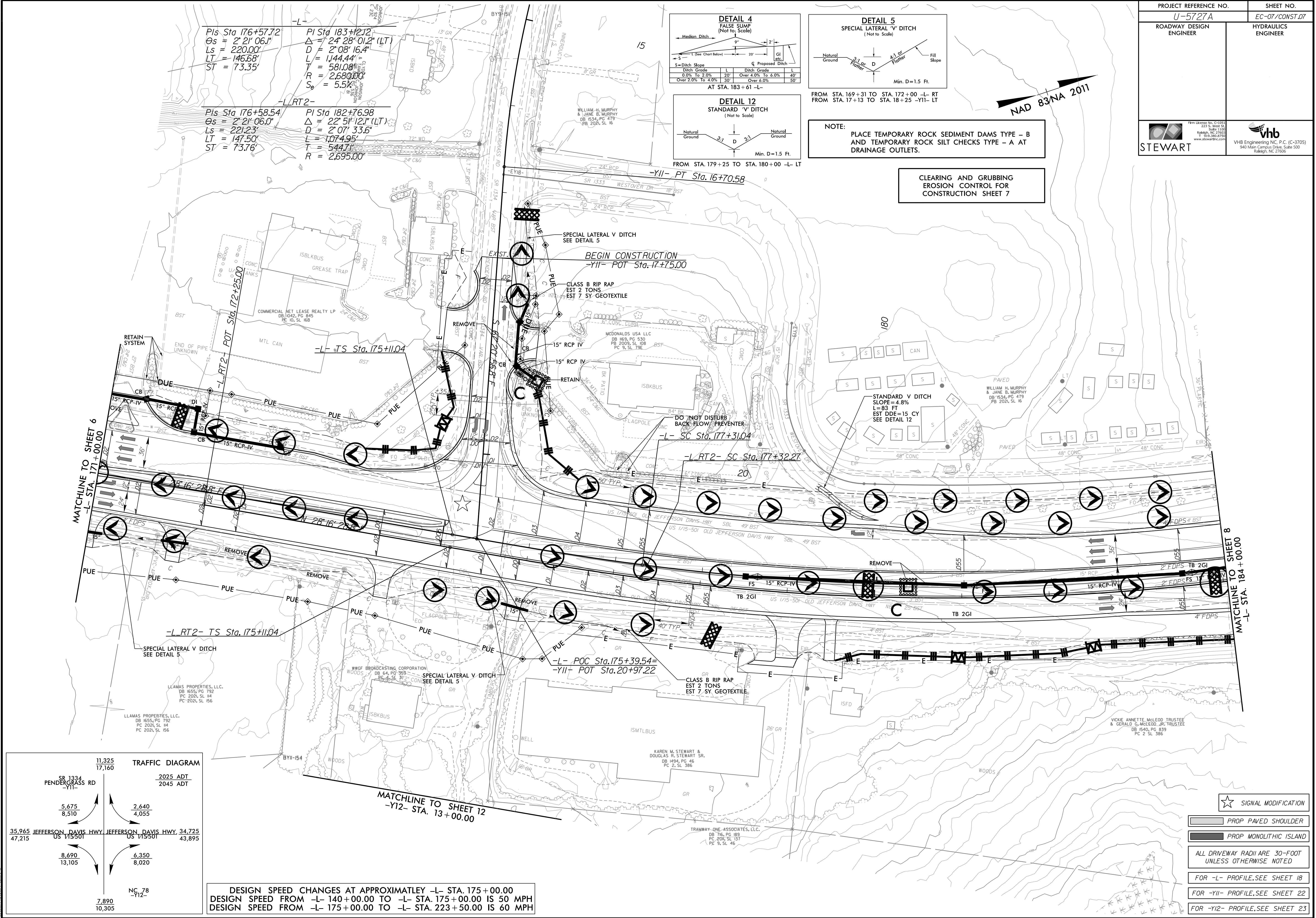
PROP MONOLITHIC ISLAND

ALL DRIVEWAY RADII ARE 30'-FOOT
UNLESS OTHERWISE NOTED

FOR -L- PROFILE, SEE SHEET 17

5/14/99

3/12/2025 - RELLEC_PSH07.CG.dgn

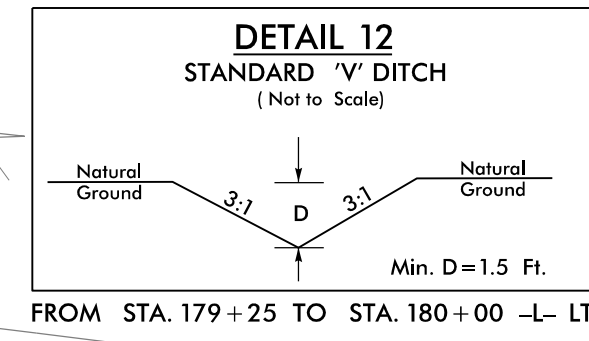
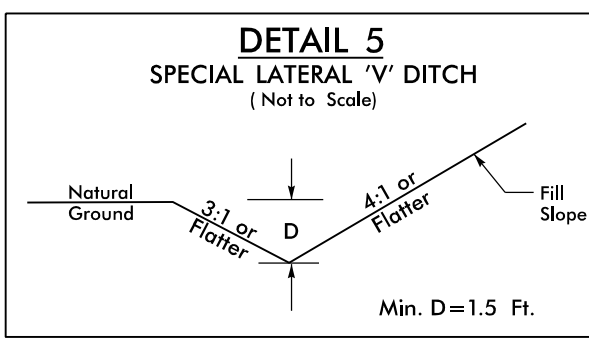
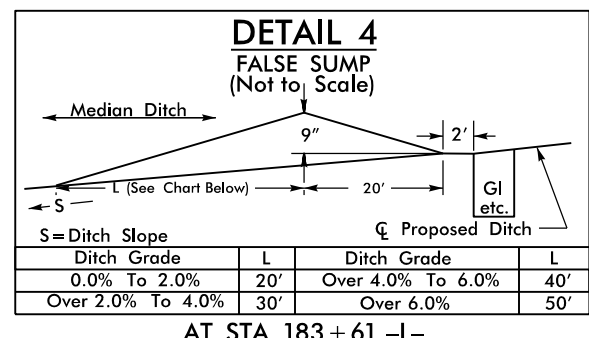


Pls Sta 176+57.72
Cs = 2' 21" 06.1"
Ls = 220.00'
LT = 146.68'
ST = 73.35'

Pls Sta 183+12.12
Cs = 2' 28" 01.2" (LT)
D = 2' 08" 16.4"
L = 1,444.44'
T = 581.08'
R = 2,680.00'
S_e = 5.5%

Pls Sta 176+58.54
Cs = 2' 21" 06.0"
Ls = 221.23'
LT = 147.50'
ST = 73.76'

Pls Sta 182+76.98
Cs = 2' 51" 12.1" (LT)
D = 2' 07" 33.6"
L = 1,074.95'
T = 544.71'
R = 2,695.00'



NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

PROJECT REFERENCE NO. U-5727A		SHEET NO. EC-07/CONST.07	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
STEWART		VHB VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606	

PROJECT REFERENCE NO.		SHEET NO.	
U-5727A		EC-08/CONST.DB	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
 STEWART		 VHB	
Firm License No. C-1501 223 S. West St. Raleigh, NC 27603 T 919.386.9199 www.stewartinc.com		VHB Engineering N.C., P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606	

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8

NOTE:

PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

NAD 83/NA 2011

PI Sta 183+12.12
 $\Delta = 24^{\circ} 28' 01.2"$ (LT)
 $D = 2^{\circ} 08' 16.4"$
 $L = 1,444.44'$
 $T = 581.08'$
 $R = 2,680.00'$
 $S_s = 5.5\%$

PI Sta 189+48.82
 $\Delta_s = 2^{\circ} 21' 06.1"$
 $L_s = 220.00'$
 $LT = 146.68'$
 $ST = 73.35'$

PI Sta 11+82.74
 $\Delta = 46^{\circ} 13' 49.7"$ (LT)
 $D = 24^{\circ} 48' 12.1"$
 $L = 186.39'$
 $T = 98.60'$
 $R = 231.00'$
 $S_s = 6\%$
Runoff = 138'
 $V_D = 30$ MPH

PI Sta 16+36.31
 $\Delta = 1^{\circ} 36' 23.1"$ (LT)
 $D = 0^{\circ} 31' 15.1"$
 $L = 308.41'$
 $T = 154.21'$
 $R = 11,000.00'$

PI Sta 10+67.55
 $\Delta = 17^{\circ} 13' 43.3"$ (LT)
 $D = 22^{\circ} 55' 05.9"$
 $L = 75.17'$
 $T = 37.87'$
 $R = 250.00'$

PI Sta 11+31.35
 $\Delta = 7^{\circ} 30' 54.7"$ (RT)
 $D = 2^{\circ} 51' 53.2"$
 $L = 262.33'$
 $T = 131.35'$
 $R = 2,000.00'$

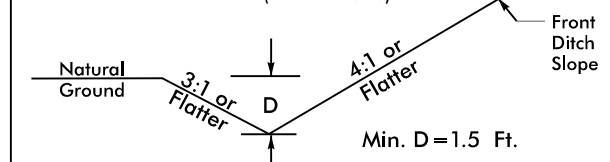
PI Sta 12+86.80
 $\Delta = 52^{\circ} 09' 25.3"$ (RT)
 $D = 114^{\circ} 35' 29.6"$
 $L = 45.52'$
 $T = 24.47'$
 $R = 50.00'$

PI Sta 13+31.09
 $\Delta = 49^{\circ} 52' 32.4"$ (LT)
 $D = 3^{\circ} 19' 52.9"$
 $L = 43.52'$
 $T = 23.25'$
 $R = 50.00'$

PI Sta 12+05.86
 $\Delta = 6^{\circ} 54' 42.5"$ (LT)
 $D = 3^{\circ} 19' 52.9"$
 $L = 207.49'$
 $T = 103.87'$
 $R = 1,720.00'$
 $S_s = 3.5\%$
Runoff = 70'
 $V_D = 50$ MPH

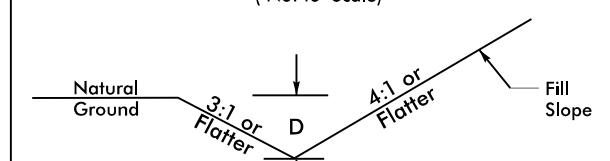
BEGIN CONSTRUCTION
-SR3- POT Sta. 10+20.00

DETAIL 1
SPECIAL CUT DITCH
(Not to Scale)



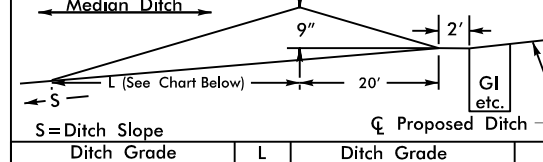
FROM STA. 185+50 TO STA. 186+90 -L- RT
FROM STA. 188+50 TO STA. 193+00 -L- LT

DETAIL 5
SPECIAL LATERAL V DITCH
(Not to Scale)



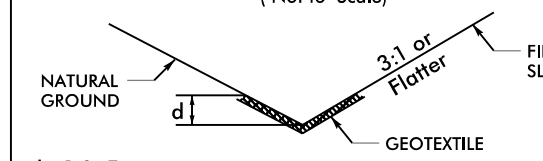
FROM STA. 189+00 TO STA. 192+00 -L- RT

DETAIL 4
FALSE SUMP
(Not to Scale)



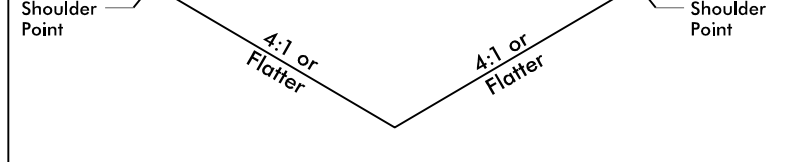
AT STA. 190+11 -L-

DETAIL 8
TOE PROTECTION
(Not to Scale)



FROM STA. 192+50 TO STA. 193+50 -L- RT

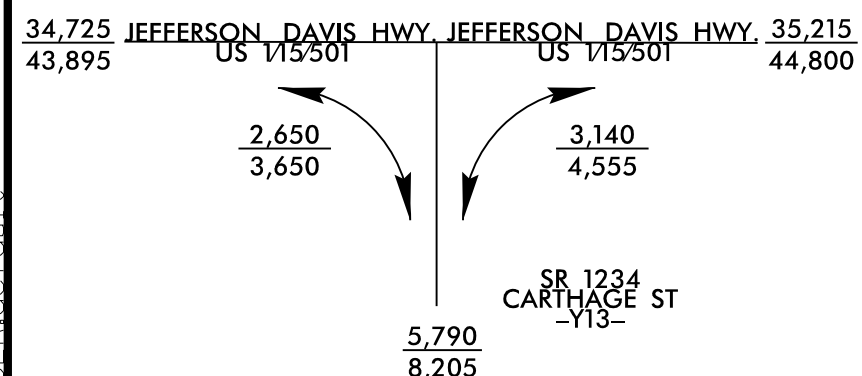
DETAIL 13
MEDIAN V DITCH
(Not to Scale)



FROM STA. 193+50 TO STA. 194+50 -L- RT

TRAFFIC DIAGRAM

2025 ADT
2045 ADT



120 x 40 x 3
2 inch Skimmer
with 1.875 inch
Orifice Diameter
40 ft. weir
ID 8.1

BEGIN CONSTRUCTION
-SR4- POT Sta. 10+50.00

END CONSTRUCTION
-Y13- POT Sta. 14+75.00

PROP PAVED SHOULDER
PROP MONOLITHIC ISLAND
PROP P/VMT REMOVAL

ALL DRIVEWAY RADII ARE 30-FOOT
UNLESS OTHERWISE NOTED

FOR -L- PROFILE, SEE SHEET 19

FOR -Y13- PROFILE, SEE SHEET 25

FOR -Y14- PROFILE, SEE SHEET 25

FOR -SR3- PROFILE, SEE SHEET 26

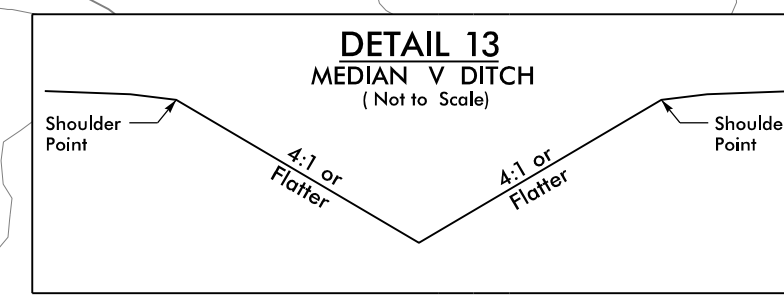
FOR -SR4- PROFILE, SEE SHEET 26

FOR -DR2- PROFILE, SEE SHEET 28

5/14/99

PROJECT REFERENCE NO.		SHEET NO.	
U-5727A		EC-09/CONST.09	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
 STEWART		 VHB	

-L-		-SR3-	
PI Sta 197+44.61 Δ = 1° 10' 41.9" Ls = 160.00' LT = 106.67' ST = 53.34'	PI Sta 209+65.30 Δ = 33° 24' 29.4" (RT) D = 1° 28' 22.4" L = 2,268.19' T = 1,67.36' R = 3,890.00' S _e = 4%	PI Sta 12+05.86 Δ = 6° 54' 42.5" (LT) D = 3° 19' 52.1" L = 207.49' T = 103.87' R = 1,720.00' S _e = 3.5% Runoff = 70' V _D = 50 MPH	PI Sta 15+44.99 Δ = 15° 35' 36.7" (RT) D = 3° 19' 52.1" L = 468.11' T = 235.51' R = 1,720.00' S _e = 3.5% Runoff = 70' V _D = 50 MPH
PI Sta 12+19.23 Δ = 1° 37' 35.9" (RT) D = 1° 37' 35.9" L = 187.91' T = 94.28' R = 926.00' S _e = 4% Runoff = 80' V _D = 50 MPH	PI Sta 14+78.11 Δ = 20° 14' 09.5" (LT) D = 6° 11' 14.8" L = 327.05' T = 165.25' R = 926.00' S _e = 4% Runoff = 80' V _D = 50 MPH	PI Sta 17+52.92 Δ = 13° 54' 56.9" (RT) D = 6° 11' 14.8" L = 224.90' T = 113.01' R = 926.00' S _e = 4% Runoff = 80' V _D = 50 MPH	PI Sta 20+83.05 Δ = 9° 44' 42.1" (RT) D = 2° 14' 17.2" L = 435.41' T = 218.23' R = 2,560.00' S _e = Exist.



FROM STA. 193+50 TO STA. 194+50

END CONSTRUCTION
-SR3- POC Sta. 20+85.00

NAD 83/NA 2011

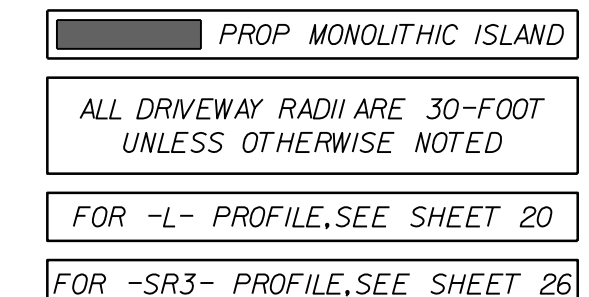
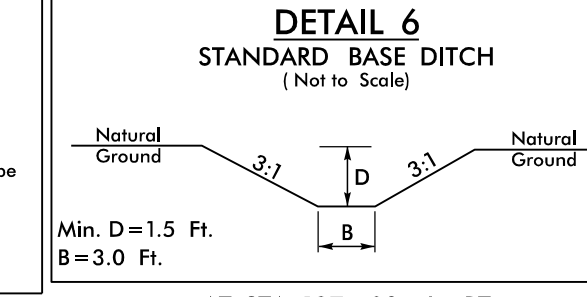
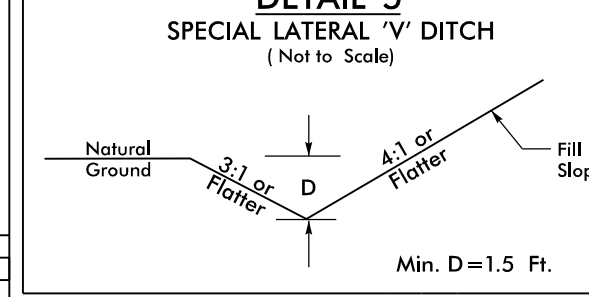
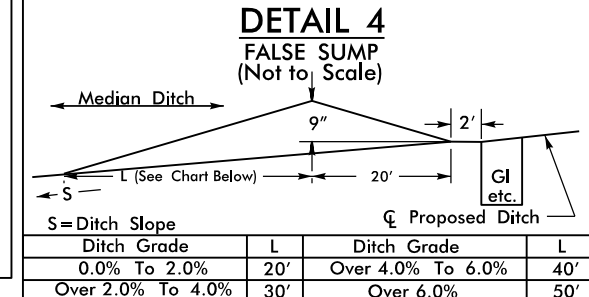
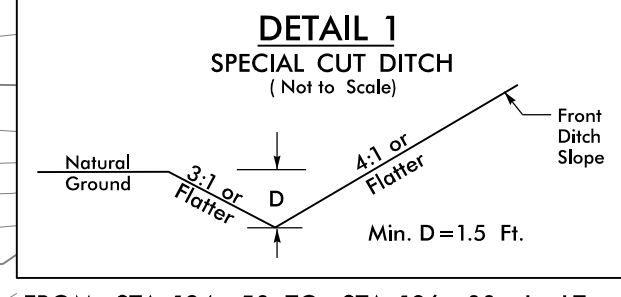
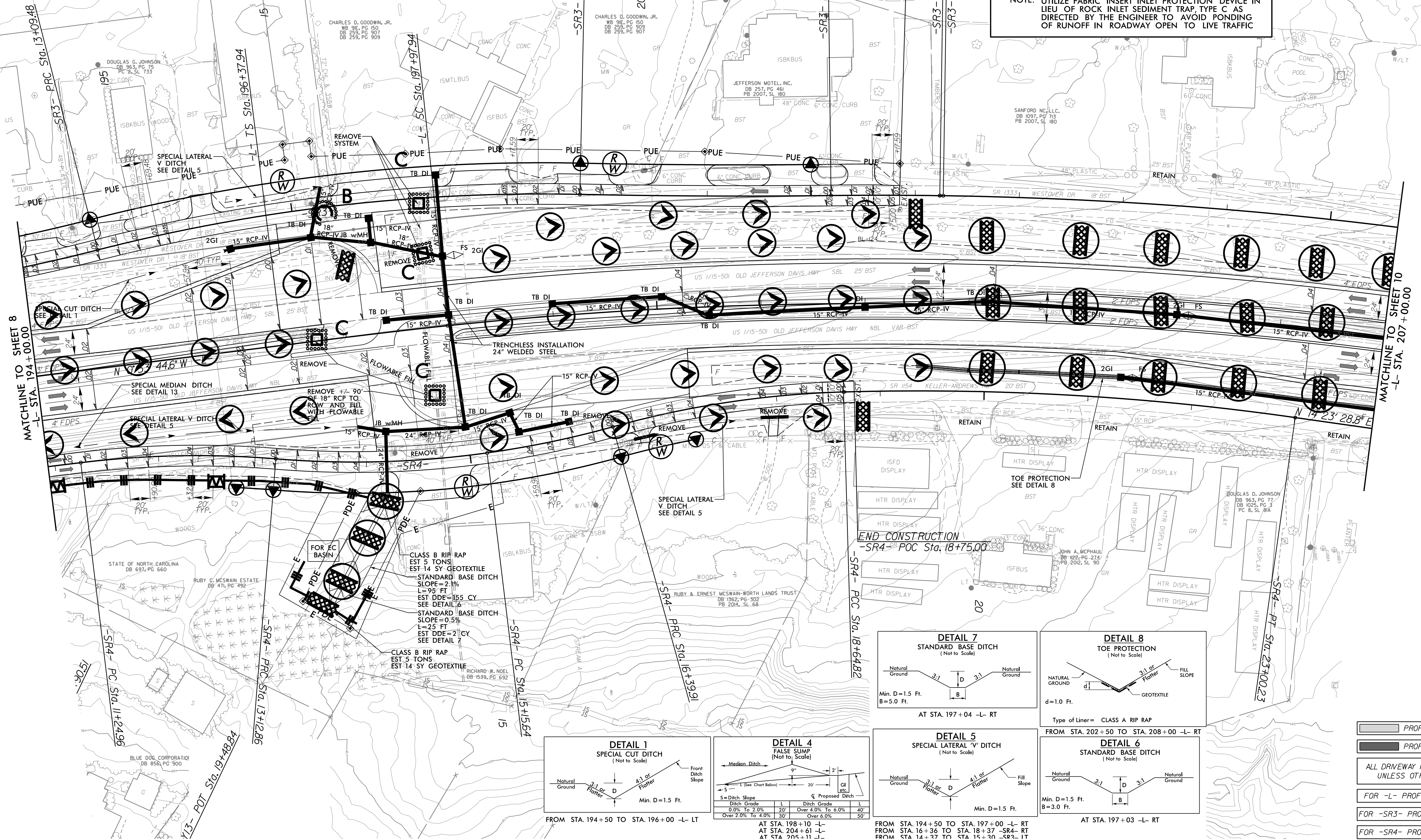
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9

NOTE:

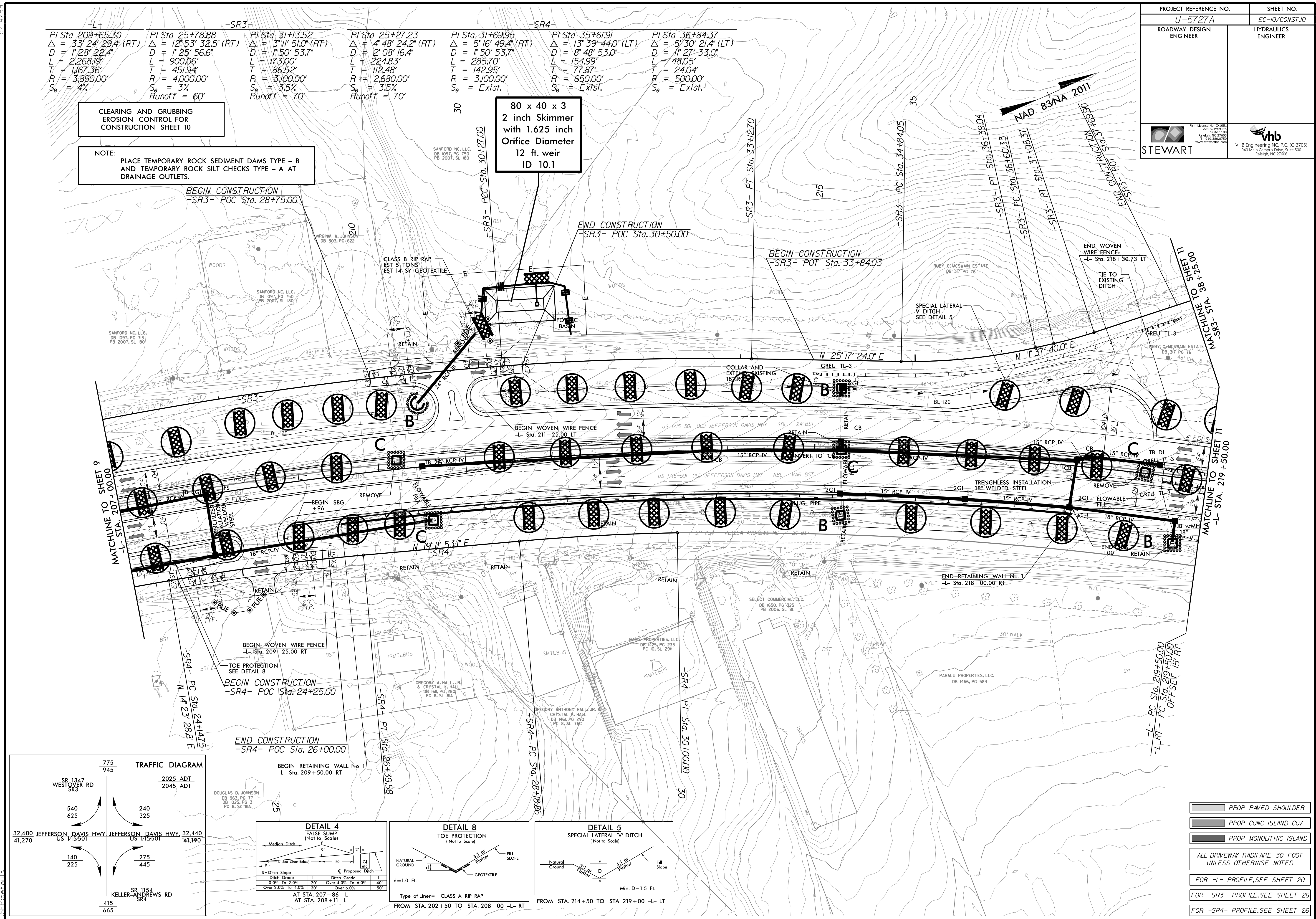
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

NOTE:

UTILIZE FABRIC INSERT PROTECTION DEVICE IN
LIEU OF ROCK INLET SEDIMENT TRAP, TYPE C AS
DIRECTED BY THE ENGINEER TO AVOID PONDING
OF RUNOFF IN ROADWAY OPEN TO LIVE TRAFFIC

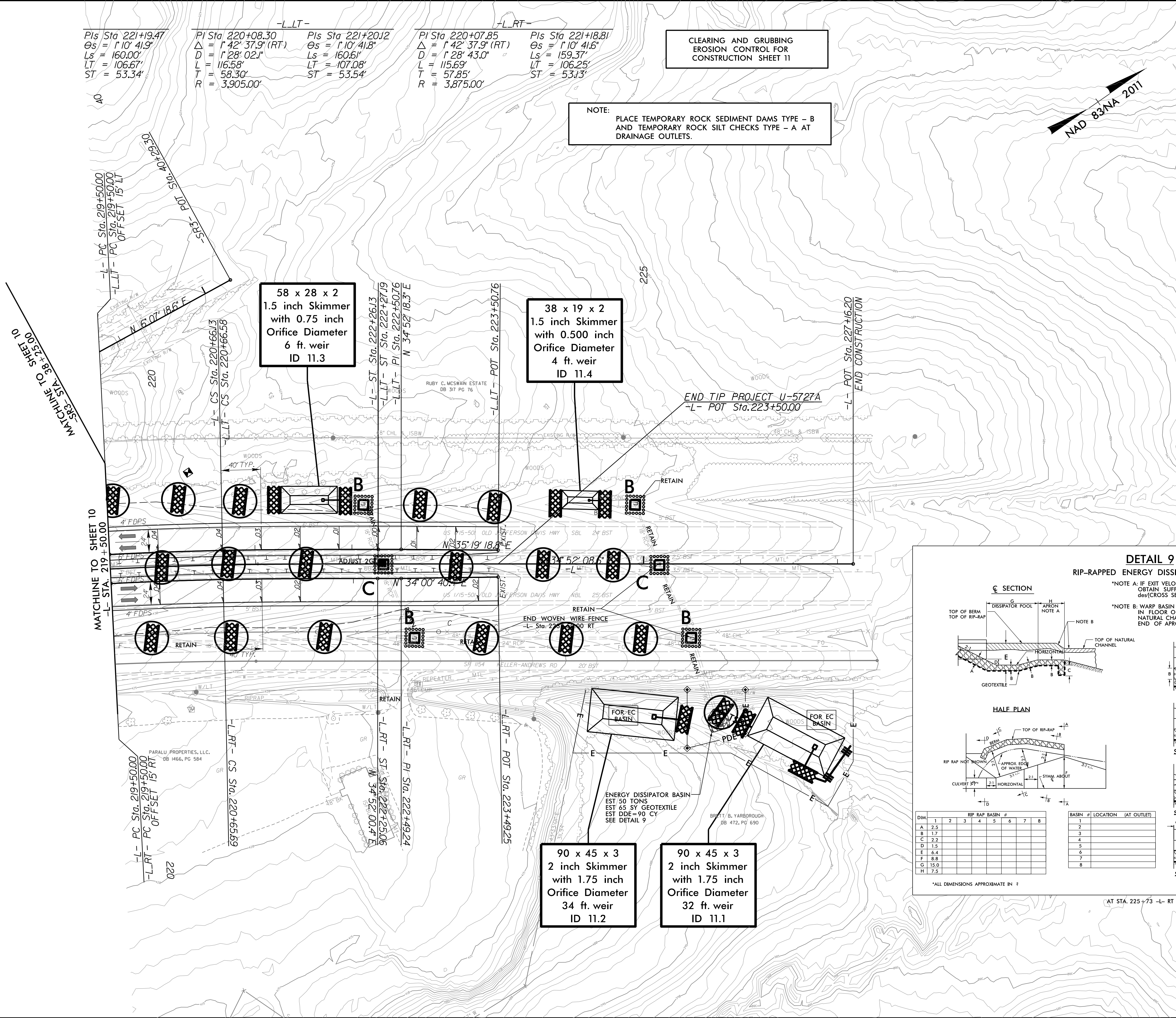


- PROP PAVED SHOULDER
- PROP MONOLITHIC ISLAND
- ALL DRIVEWAY RADII ARE 30'-FOOT UNLESS OTHERWISE NOTED
- FOR -L- PROFILE, SEE SHEET 20
- FOR -SR3- PROFILE, SEE SHEET 26
- FOR -SR4- PROFILE, SEE SHEET 26



5/14/99

3/27/2025 REL/EC_PSH11.CG.dgn
USER:detault



PROJECT REFERENCE NO. U-5727A		SHEET NO. EC-II/CONST.II	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
 STEWART		 VHB VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606	