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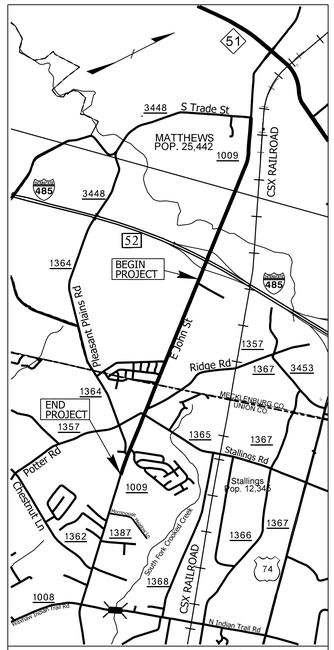
09/08/99

TIP PROJECT: U-4714AC

CONTRACT: DJ00488

SEE SHEET 1A FOR INDEX OF SHEETS
SEE SHEET 1B FOR CONVENTIONAL SYMBOLS



VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

MECKLENBURG & UNION COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4714AC	1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
39078.1.2		P.E.
39078.1.2.1		UTIL.

LOCATION: SR 1009 (JOHN STREET\OLD MONROE ROAD)
FROM EAST OF I-485 INTERCHANGE TO
WEST OF MORNINGSIDE MEADOW LANE

TYPE OF WORK: CLEARING & GRUBBING, EROSION CONTROL

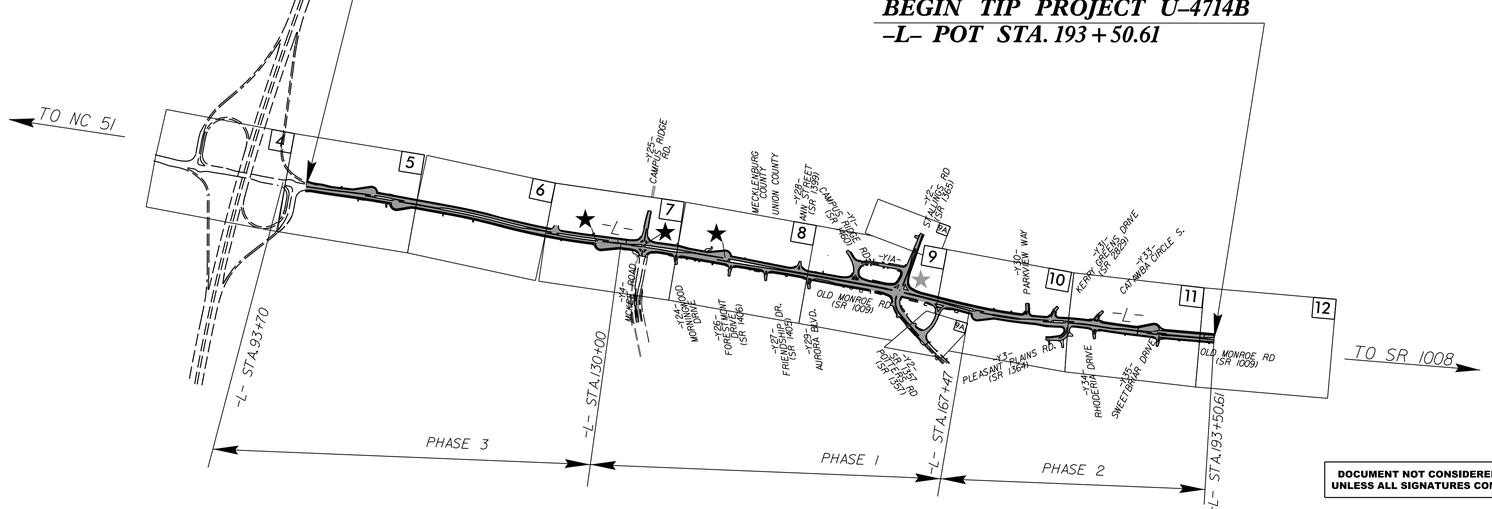
EARLY CLEARING & GRUBBING PLANS

NAD 83 /NA 2011

BEGIN TIP PROJECT U-4714AC
-L- POT STA. 96+20.00

END TIP PROJECT U-4714AC
BEGIN TIP PROJECT U-4714B
-L- POT STA. 193+50.61

LEGEND
★ PROPOSED SIGNAL
★ EXISTING SIGNAL



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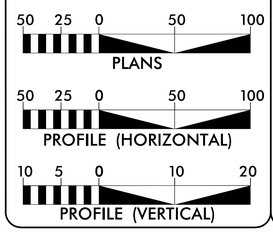
GRAPHIC SCALES



DESIGN DATA

ADT 2017 = 45,000
ADT 2037 = 54,500
K = 6 %
D = 55 %
T = 4 % *
V = 40 MPH
* TTST = 1% DUAL 3%
FUNC CLASS = MINOR ARTERIAL

PROJECT LENGTH

TOTAL LENGTH OF TIP PROJECT U-4714AC = 1.886 MILES

Prepared In the Office of:
KCI Associates of N.C., P.A.
4505 Falls of Neuse Road, Suite 400
Raleigh, NC 27609
Phone (919) 783-9214
Fax (919) 783-9266

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: JULY 19, 2019

LETTING DATE: OCTOBER 18, 2023

NCDOT CONTACT: ***ALEXANDER FOSTER, PE***
PROJECT ENGINEER - NCDOT

Plans Prepared For:
DIVISION OF HIGHWAYS

DEWAYNE L. SYKES, PE
PROJECT ENGINEER

BRYAN E. HOUGH, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: *P.E.*

ROADWAY DESIGN ENGINEER

DocuSigned by: Bryan Hough
398761EFEF93446...
SIGNATURE: *P.E.* 9/20/2023

NORTH CAROLINA PROFESSIONAL SEAL 036853 ENGINEER BRYAN E HOUGH

STATE OF NORTH CAROLINA * DEPARTMENT OF TRANSPORTATION *

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8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	1A

ROADWAY DESIGN ENGINEER

Documents signed by:

SEAL 036853 ENGINEER BRIAN E HOUSE

DocuSigned by: 2B7F4EFE93346...

9/20/2023

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES, AND STANDARD DRAWINGS
1B	CONVENTIONAL SYMBOLS
3P-1	PARCEL INDEX SHEET
RW01	SURVEY CONTROL TITLE SHEET
RW02C-1 THRU RW02C-7	SURVEY CONTROL SHEETS
RW02D-1	ALIGNMENT CONTROL SHEET
RW03E-1 THRU RW03E-9	RIGHT OF WAY CONTROL SHEETS
RW04 THRU RW-12	RIGHT OF WAY PLANS
4 THRU 12	AREAS OF CLEARING
TMP-1 THRU TMP-1A	TRAFFIC MANAGEMENT PLANS
EC-1 TO EC-13	EROSION CONTROL PLANS
UBO-1 TO UBO-10	UTILITIES BY OTHERS

GENERAL NOTES:

2018 SPECIFICATIONS
EFFECTIVE: 01-16-2018
REVISED:

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III. WHERE PERMANENT EASEMENT EXISTS BEYOND THE LIMITS OF METHOD III, CLEARING WILL EXTEND TO THE OUTERMOST LIMITS OF PERMANENT EASEMENT AND BE PERFORMED AS ESTABLISHED ON THE PLANS.

EFF. 01-16-2018
REV.

2018 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, 2018 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

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9/10/2021

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	1-B

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

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 — AATUR
- End of Information — E.O.I.

PROJ. REFERENCE NO.	SHEET NO.
U-4714A	3P-1

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PARCEL INDEX SHEET

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
84	5,6	PAUL H TROTTER 6058 - 295
85	6	FOUR MORE INVESTMENTS LLC
86	6	J & M INVESTMENTS LLC
87	6, 7	DUKE POWER CO 4147 - 915
88	5, 6	ASPEN ASSET GROUP LLC
89	6	ASPEN ASSETT GROUP LLC
90	6, 7	COMBINED WITH PARCEL 87
91	7	INDIAN TRAIL PLAZA
92	7	TROTTER PROPERTIES LLC
93	7	HAWTHORNE'S HOLDING GROUP LLC
94	7	PARCEL WAS COMBINED WITH 92
95	7	MARCELLA MCINTYRE WITHROW
96	7	MARCELLA MCINTYRE WITHROW
97	7	CYNTHIA SEWELL GARDNER
97A	7	MARCELLA MCINTYRE WITHROW
98	7	2217 EAST JOHN ST LLC
99	7, 8	2217 EAST JOHN ST LLC
100	8	JOSEPH C MARTIN
101	8	SHIRLEY HAUNG
102	8	RM MATTHEWS LLC
103	8	RM MATTHEWS LLC
104	8	RM MATTHEWS LLC
105	8	EAST JOHN SYSTEMS, L.L.C.
106	8	EAST JOHN SYSTEMS, L.L.C.
107	8	EAST JOHN SYSTEMS, L.L.C.
108	8	CRYSTAL BC PROPERTIES, LLC
109	8, 9	EASTWOOD FOREST BAPTIST CHURCH
110	8	2309 EAST JOHN ST LLC
111	8	PARCEL COMBINED WITH 110
112	8	PARCEL COMBINED WITH 110
113	8	BERBICE ENTERPRISE
114	8	COMBINED WITH PARCEL 113
115	8	2425 EAST JOHN ST LLC
116	8	2425 EAST JOHN ST LLC
117	8	ROKTAL PROPERTY DEVELOPMENT LLC
118	8	COUCHELL FAMILY PROPERTIES LLC
119	8	BELTWAY INDUSTRIAL PARK LLC
120	8	F & B LLC
121	8,9	JEFFREY R. CARROLL AND WIFE TERESA A. CARROLL
122	9	STEGALL AND COMPANY INC.
123	9	THE POINTE AT COMPUS RIDGE, LLC
124	9	WASH ONE, LLC C/O THE MOSER GROUP
125	9	RAINBOW TROUT PROPERTIES, LLC C/O THOMAS B MCELWEE
126	9	JANET GUION GRAHAM
127	9, 9A	RANDALL B. DUCKWORTH AND WIFE, BONNIE H. DUCKWORTH
128	9	EDWARD R. SQUIRES
129	9, 9A	STALLINGS TOWNCENTER, LLC
130	8, 9	KIMBERLY B. CROWE
131	9	JOHNSON WALTON CURTIS & HESTA T
132	9	MARIA COPSIS TASSOPOULOS AND HUSBAND
133	9	LR & FR, LLC
133A	9	CAROLINA CONCRETE, INC.
134	9	TIMOTHY & RANDALL DUCKWORTH
135	9, 10	STALLINGS TOAD 209, LLC
136	10	ALPHA OMEGA LAND DEVELOPMENT INC.
137	10	CAROLYN M. FUNDERBURK
138	10	VIVIAN F SHECKLER
139	10, 11	PARCEL COMBINED WITH 161A
140	10	JUSTIN M. COLE AND WIFE, KELLY A. COLE
141	10	PARCEL COMBINED WITH 140

PARCEL No.	SHEET No.	PROPERTY OWNER NAME
142	10	GLORIA WILLIAMS SHERIN AND HUSBAND DAVID MICHAEL
143	9, 10	FUNDERBURK FOUR, LLC
144	9, 10	CAROLYN M. FUNDERBURK
145	10	JUSTIN TAYLOR WHISNANT AND ALYSSA WHISNANT
145A	10	NO PROPERTY OWNER NAME SHOWN
146	10	AIDA CAPELLA
147	10	APRIL L. RUST
148	10	DMITRIJS SELPACKIS AND WIFE MARIYA SELPACKIS
149	10, 11	CLAUDIA SUE KOZLOWSKI
150	11	IME INVESTMENTS GROUP, INC
151	11	COUCHELL PETER JR
152	11	COUCHELL PETER JR
153	11	COUCHELL PETER JR
154	11	COUCHELL PETER JR
155	11	TIMOTHY L. SHERIN
155Z	11	TIMOTHY L. SHERIN
156	11	TIMOTHY L. SHERIN
156Z	11	TIMOTHY L. SHERIN
157	11	TIMOTHY L. SHERIN
157Z	11	TIMOTHY L. SHERIN
158	11	RZR LOVE LLC
159	11	TIMOTHY L. SHERIN AND WIFE, DAWN M. SHERIN
160	11, 12	DAWN M. SHERIN
161	10, 11	ANDREY LASHTUR
161A	10,11	HOMESALES INC.
162	11	CASSANDRA J MAKOWSKI & DENNIS JAMES MAKOWSKI JR.
163	11	WILLIAM A. LAUSTSEN AND WIFE, ALICIA M. LAUSTSEN
163Z	11	WILLIAM A. LAUSTSEN AND WIFE, ALICIA M. LAUSTSEN
164	11	STALLINGS POINTE, LLC
165	11, 12	GUYNELLE B BROOME HEIRS
166	12	317 PROPERTIES, LLC
167	11	IME INVESTMENTS GROUP, INC
167A	11	TAE KYU PARK AND WIFE, OH SEON PARK
167Z	11	IME INVESTMENTS GROUP, INC
168	11	IME INVESTMENTS GROUP, INC
169	11	IME INVESTMENTS GROUP, INC
170	5	EDWIN LAWRENCE TENHENGEL
171	7	MARCELLA MCINTYRE WITHROW
172	9A	TOWN OF STALLINGS
172A	9A	TOWN OF STALLINGS
173	9,9A	STARNES CAROLE, ET AL
174	9,9A	PARCEL REMOVED
175	9,9A	4390 POTTER RD, LLC
176	9,9A	T & Y MATTHEWS, LLC
177	9A	H & J PROPERTIES OF UNION COUNTY LLC
178	9A	HOWARD ODELL TEETER
179	9	METROLINA MEDICAL PROPERTIES LLC
180	9,9A	TOWN OF STALLINGS
181	8	JEFFREY CLEFF PRESSLEY & EDWARD EARL SUGGS

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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Raleigh, NC 27609-6270
Phone (919) 783-9214 • Fax (919) 783-9266

NAD 83/NA 2011

REVISIONS

8/17/99

-L-
PI Sta 81+85.14
△ = 3°02' 37.6" (LT)
D = 0° 34' 22.6"
L = 531.24'
T = 265.68'
R = 10,000.00'
DS = 40 MPH
e = NC

-L- PT Sta. 84+50.70

80+00

S 32° 56' 17.9" E

I-485

UTILITY CLEARING PHASE 3

MATCHLINE -L- 94+00.00 SEE SHEET 5

BEGIN CONSTRUCTION -L- STA. 93+69.00

MATTHEWS BELTWAY LLC
DB 9813 PG 435
PB 50 PG 087

Windstream Communications Inc., 24 STR

Piedmont Natural Gas Company Inc., 6" PLASTIC

Time Warner Cable, 24 STR

NOTE:
ALL JURISDICTIONAL STREAMS AND WETLANDS TO BE DELINEATED WITH ORANGE SAFETY FENCE PRIOR TO CLEARING AND GRUBBING. SEE DETAIL ON EC-2C.

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PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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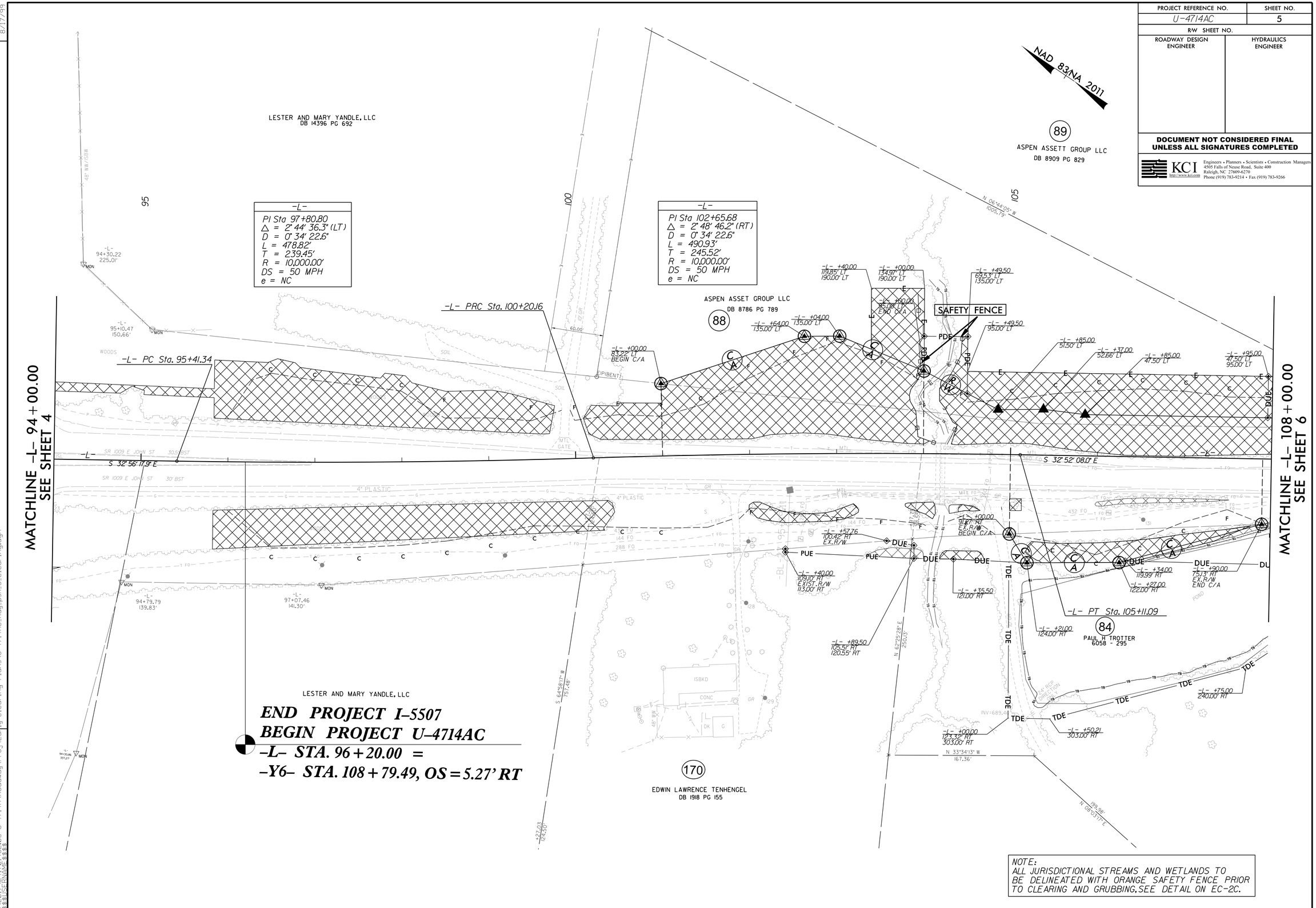

NOTE:
ALL JURISDICTIONAL STREAMS AND WETLANDS TO BE DELINEATED WITH ORANGE SAFETY FENCE PRIOR TO CLEARING AND GRUBBING, SEE DETAIL ON EC-2C.

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	6
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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NAD 83/NA 2011

-L-
PI Sta 114+22.48
△ = 4° 42' 42.0" (RT)
D = 0° 49' 06.6"
L = 575.64'
T = 287.98'
R = 7,000.00'
DS = 50 MPH
e = SEE PLAN

-L-
PI Sta 121+82.72
△ = 7° 43' 28.0" (LT)
D = 0° 49' 06.6"
L = 943.72'
T = 472.58'
R = 7,000.00'
DS = 50 MPH
e = SEE PLAN

MATCHLINE -L- 108+00.00
SEE SHEET 5

MATCHLINE -L- 122+00.00
SEE SHEET 7

-L- PRC Sta. 117+10.14

-L- PC Sta. 111+34.50

89
ASPEN ASSETT GROUP LLC
DB 8909 PG 829

87
DUKE POWER CO
4147 - 921

86
J & M INVESTMENTS LLC
DB 19082 PG 796

85
FOUR MORE INVESTMENTS LLC
DB 19420 PG 508
TRACT A

CHARLESTON VENTURE LLC
DB 10765 PG 668

87
DUKE POWER CO
4147 - 915

SAFETY FENCE

DUE

TDE

PUE

EXISTING R/W

SR 1009 E JOHN ST 25' BST

S 32° 52' 08.0" E

NOTE:
ALL JURISDICTIONAL STREAMS AND WETLANDS TO BE DELINEATED WITH ORANGE SAFETY FENCE PRIOR TO CLEARING AND GRUBBING. SEE DETAIL ON EC-2C.

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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REVISIONS

8/17/99

-L-

PI Sta 134+01.52
△ = 2° 51' 59.9" (RT)
D = 0° 28' 38.9"
L = 600.39'
T = 300.26'
R = 12,000.00'
DS = 50 MPH
e = NC

MATCHLINE -L- 122+00.00
SEE SHEET 6

MATCHLINE -L- 136+00.00
SEE SHEET 8

NAD 83/NA 2011

UTILITY CLEARING PHASE 3

UTILITY CLEARING PHASE 1

-L- PT Sta. 126+53.86

-L- PC Sta. 131+01.26

POT Sta. 24+75.58

S 35° 52' 54.0" E

S 58°56'13" E 28.20'

S 58°56'29" E 396.03'

N 57° 06' 27.0" E

SAFETY FENCE

-BL- 31 125+82.61
-BY2- 29+25.92

87 DUKE POWER CO 4147 - 915

97 CYNTHIA SEWELL GARDNER DB 2165 PG 534

98 2217 EAST JOHN ST LLC DB 19636 PG 619

99 2217 EAST JOHN ST LLC DB 19636 PG 619

91 INDIAN TRAIL PLAZA DB 26739 PG 894

92 TROTTER PROPERTIES LLC DB 19840 PG 566

93 HAWTHORNE'S HOLDING GROUP LLC DB 31915 PG 417

95 MARCELLA MCINTYRE WITHROW DB 36014 PG 291

96 MARCELLA MCINTYRE WITHROW DB 36014 PG 294

97A MARCELLA MCINTYRE WITHROW DB 36014 PG 303 MB 14 PG 217 LOT 1

171 MARCELLA MCINTYRE WITHROW DB 36014 PG 422 MB 14 PG 217 LOT 2

★ PROPOSED SIGNAL

NOTE:
ALL JURISDICTIONAL STREAMS AND WETLANDS TO BE DELINEATED WITH ORANGE SAFETY FENCE PRIOR TO CLEARING AND GRUBBING, SEE DETAIL ON EC-2C.

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$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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KCI Engineers • Planners • Scientists • Construction Managers
4505 Falls of Neuse Road, Suite 400
Raleigh, NC 27609-6270
http://www.kci.com
Phone (919) 783-9214 • Fax (919) 783-9266

NAD 83/NA 2011

-Y28-
PI Sta 11+74.58
Δ = 2° 24' 41.2" (RT)
D = 9° 27' 00.9"
L = 25.52'
T = 12.76'
R = 606.29'

MATCHLINE -L- 136+00.00
SEE SHEET 7

MATCHLINE -L- 150+00.00
SEE SHEET 9

REVISIONS

8/17/99

22-SEP-2023 13:57
M:\2017\2017.0182.03 U-4714A\Roadway\Proj\Early Clearing Plans\U-4714AC_Rdy_psh_8_Clearing.dgn
$$$$USERNAME$$$$

-Y24-	
PI Sta 11+05.92	PI Sta 11+73.95
Δ = 3° 59' 55.6" (LT)	Δ = 5° 21' 36.9" (LT)
D = 18° 19' 42.5"	D = 5° 38' 12.0"
L = 21.82'	L = 95.10'
T = 10.91'	T = 47.58'
R = 312.61'	R = 1,016.48'

-Y26-	
PI Sta 11+73.09	PI Sta 12+91.24
Δ = 15° 17' 46.0" (LT)	Δ = 2° 39' 20.6" (LT)
D = 12° 33' 27.3"	D = 2° 41' 38.0"
L = 121.81'	L = 98.58'
T = 61.27'	T = 49.30'
R = 456.26'	R = 2,126.88'

-Y27-
PI Sta 11+31.33
Δ = 9° 01' 19.7" (LT)
D = 4° 26' 28.1"
L = 203.15'
T = 101.79'
R = 1,290.12'

NOTE:
ALL JURISDICTIONAL STREAMS AND WETLANDS TOBE DELINEATED WITH ORANGE SAFETY FENCE PRIOR TO CLEARING AND GRUBBING.
SEE DETAIL ON EC-2C.

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	9
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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Phone (919) 783-9214 • Fax (919) 783-9266

NAD 83/NA 2011

MATCHLINE -Y2- 14+50.00 SEE SHEET 9A

MATCHLINE -L- 150+00.00 SEE SHEET 8

MATCHLINE -L- 164+00.00 SEE SHEET 10

MATCHLINE -Y2B- 13+00.00 SEE SHEET 9A

MATCHLINE -Y2A- 14+00.00 SEE SHEET 9A

-Y1-
PI Sta 11+86.81
△ = 46° 39' 31.2" (RT)
D = 15° 26' 37.0"
L = 302.12'
T = 160.00'
R = 371.00'
e = 0.03
RO = 75'

-Y1A-
PI Sta 11+00.17
△ = 29° 23' 01.8" (RT)
D = 15° 26' 37.0"
L = 190.27'
T = 97.27'
R = 371.00'
e = 0.02
RO = 40'

-L-
PI Sta 160+61.83
△ = 5° 30' 09.0" (RT)
D = 0° 34' 22.6"
L = 960.37'
T = 480.55'
R = 10,000.00'
e = NC

-Y29-
PI Sta 11+26.49
△ = 2° 55' 26.5" (LT)
D = 3° 54' 20.3"
L = 74.87'
T = 37.44'
R = 1,467.00'

-Y2A-
PI Sta 11+57.02
△ = 61° 30' 04.4" (LT)
D = 33° 12' 11.2"
L = 185.23'
T = 104.12'
R = 175.00'
e = 0.04
RO = 96'

★ PROPOSED SIGNAL

NOTE:
ALL JURISDICTIONAL STREAMS AND WETLANDS TO BE DELINEATED WITH ORANGE SAFETY FENCE PRIOR TO CLEARING AND GRUBBING, SEE DETAIL ON EC-2C.

REVISIONS 8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	9A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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NAD 83/NA 2011

-Y2- POT Sta. 17+37.47

TOWN OF STALLINGS 172A

TOWN OF STALLINGS 172

180

173

MATCHLINE -Y2- 14+50.00
SEE SHEET 9

MATCHLINE -Y2A- 14+00.00
SEE SHEET 9

MATCHLINE -Y2B- 13+00.00
SEE SHEETS 9 & 10

-Y2B- PC Sta. 10+74.63

-Y2A- POT Sta. 19+23.87

-Y2B-
PI Sta 12+05.02
△ = 36° 06' 30.3" (LT)
D = 14° 21' 41.4"
L = 251.42'
T = 130.39'
R = 400.00'
DS = 30 MPH
e = 0.04
RO = 144'

NOTE:
ALL JURISDICTIONAL STREAMS AND WETLANDS TO BE DELINEATED WITH ORANGE SAFETY FENCE PRIOR TO CLEARING AND GRUBBING. SEE DETAIL ON EC-2C.

175 4390 POTTER RD, LLC

176 T & Y MATTHEWS, LLC

177 H & J PROPERTIES OF UNION COUNTY LLC

178 HOWARD ODELL TEETER

127 RANDALL B. DUCKWORTH AND WIFE, BONNIE H. DUCKWORTH

129 STALLINGS TOWNCENTER, LLC

COLLEEN B. TEETER AND HUSBAND, HOWARD O. TEETER

PAUL KATOPODIS & LOULA KATOPODIS

MARGUERITE ADELE MAHAN

MONA-T, LLC

ACME DEVELOPMENT INC.

8/17/99

REVISIONS

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$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	10
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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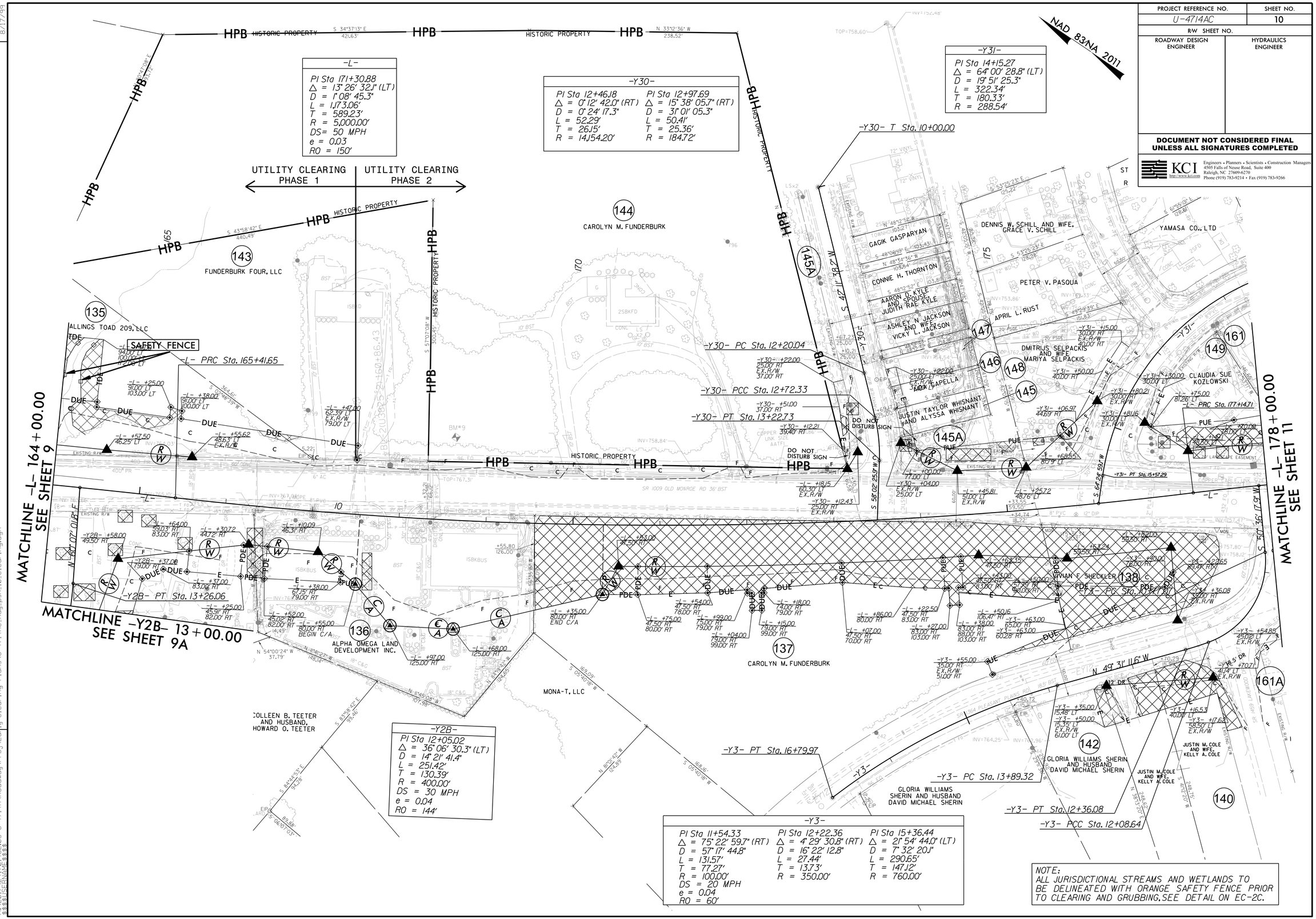
Raleigh, NC 27609-6270
Phone (919) 783-9214 • Fax (919) 783-9266
http://www.kci.com



NOTE:
ALL JURISDICTIONAL STREAMS AND WETLANDS TO BE DELINEATED WITH ORANGE SAFETY FENCE PRIOR TO CLEARING AND GRUBBING, SEE DETAIL ON EC-2C.

REVISIONS

8/17/99

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$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	11
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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Engineers • Planners • Scientists • Construction Managers
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NAD 83/NA 2011

REVISIONS

8/17/99

MATCHLINE -L- 178+00.00
SEE SHEET 10

MATCHLINE -L- 192+00.00
SEE SHEET 12

-Y31-
PI Sta 10+97.13
△ = 29° 52' 27.4" (RT)
D = 18° 54' 52.1"
L = 157.94'
T = 80.81'
R = 302.92'

-L-
PI Sta 179+06.01
△ = 7° 17' 50.8" (RT)
D = 1° 54' 35.5"
L = 382.09'
T = 191.31'
R = 3,000.00'
DS = 50 MPH
e = .04

-Y31-
PI Sta 10+64.37
△ = 3° 55' 59.1" (RT)
D = 4° 23' 54.9"
L = 89.42'
T = 44.73'
R = 1,302.60'

-L-
PI Sta 184+94.48
△ = 4° 33' 17.0" (LT)
D = 0° 34' 22.6"
L = 794.95'
T = 397.68'
R = 10,000.00'
DS = 50 MPH
e = NC

-Y33-
PI Sta 13+31.94
△ = 12° 51' 21.3" (LT)
D = 12° 31' 44.5"
L = 102.61'
T = 51.52'
R = 457.30'

-Y31- PC Sta. 10+16.32
-Y31- POT Sta. 10+00.00
-Y31- PC Sta. 12+34.95
-Y31- PT Sta. 11+74.26
-Y33- POT Sta. 10+00.00
-Y33- PC Sta. 10+19.65
-Y33- PT Sta. 11+09.06
-Y33- PC Sta. 12+80.42
-L- PT Sta. 188+91.75
-Y34- PT Sta. 12+91.79
-Y34- PC Sta. 11+68.26
-Y34- POT Sta. 10+00.00
-L- PRC Sta. 180+96.80
-Y35- PC Sta. 11+98.74
-Y35- PT Sta. 12+99.79
-Y35- POT Sta. 13+35.14

-Y34-
PI Sta 11+54.33
△ = 75° 22' 59.7" (RT)
D = 60° 00' 00.0"
L = 125.64'
T = 77.27'
R = 100.00'

PI Sta 12+30.04
△ = 2° 47' 34.9" (RT)
D = 2° 15' 39.9"
L = 123.53'
T = 61.78'
R = 2,533.99'

-Y35-
PI Sta 12+51.00
△ = 36° 03' 31.9" (RT)
D = 35° 41' 03.0"
L = 101.05'
T = 52.26'
R = 160.56'

NOTE:
ALL JURISDICTIONAL STREAMS AND WETLANDS TO BE DELINEATED WITH ORANGE SAFETY FENCE PRIOR TO CLEARING AND GRUBBING. SEE DETAIL ON EC-2C.

22-SEP-2023 14:04
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$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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NAD 83/NA 2011

REVISIONS 8/17/99

MATCHLINE -L- 192+00.00
SEE SHEET 11

-BL-38 194+52.20

UTILITY CLEARING PHASE 2 | UTILITY CLEARING U-4714B

SIKES VAN HENERY AND LYNETTE G
PB A PG 50B
LOT 10

LUKENS JUDY E
DB 6706 PG 257
PB A PG 50B
LOT 11

RUSSELL DANNY K AND VIRGINIA
DB N/F PG N/F
PB A PG 50B
LOT 12

PHIFER BRENDA E
DB N/F PG N/F
PB A PG 50B
LOT 13

FREDERICK M. BUNICK AND WIFE PATRICIA G. GABRIEL-BURNICK
DB 1639 PG 0293
PB A PG 50B
LOT 14

KRISTIN AREY
DB 6975 PG 677
PB A PG 50B
LOT 15

ERIK K ROWLETT AND WIFE ISABEL RUEDA ABAD
DB 6005 PG 222

ROBERT M. SULLIVAN AND WIFE SHARON L. SULLIVAN
DB 1653 PG 327

MATTHEW SMITH
DB 7247 PG 709
PB F PG 844

2017 BORROWE
DB 7015
PB F PG
(EXHIBIT

JACEK RUDZIEWICZ
DANKA RUDZIEWICZ
DB 3792 PG 326
PB F PG 844

DAVID L RAY
SUSAN A RAY
DB 1925 PG 671
PB F PG 844

KORRY L HUMPHREY
DB 6018 PG 858
PB F PG 844

KIMBERLY A ELSASSER
DB 3681PG 307
PB F PG 844

CHRISTINE S GOODSON
DAVIS A GOODSON
DB 3187 PG 441
PB F PG 844

MORNINGSIDE MEADOWS HOMEOWNERS ASSOCIATION, INC
DB 1414 PG 136
PB F PG 844
COS

MARK DAVID BROOME
DB 7235 PG 204

STALLINGS POINTE, LLC
DB 7094 PG 100

JAMES HAMILTON TURNER, JR
DB 3524 PG 722

ANTONIOS K. PANOU
DB 911PG 697

ANTONIOS K. PANOU
DB 858 PG 500

RICHARD P. BROOME
DB 365 PG 477

ERIC B GARTON
AND WIFE
TARA L GARTON

FULCRUM PROPERTY MANAGEMENT LLC
DB 4772 PG 275

DAWN M. SHERIN
DB 4555 PG 131
PB 7 PG 37A
LOT 4

317 PROPERTIES, LLC
DB 5887 PG 181
PB 7 PG 37A
LOT 3

ALLEN POLE
DB 141PG 344
PB 7 PG 37A
LOT 2

DANNY F DUNN AND WIFE JENNIFER J DUNN
DB 4142 PG 876
PB 7 PG 37A
LOT 1

BRUCE R. MARX AND SPOUSE, LINDA L MARX
DB 5944 PG 570

WILLIAM LARRY ALEXANDER
DB 7503 PG 411

DAMON S. BUTCHER AND WIFE, TIFFANY M. BUTCHER
DB 1349 PG 699

WILLIAM F. DEMOSS AND NANCY B. DEMOSS
DB 7131PG 678

YAMASA CO., LTD.
DB 7531PG 455

HAZEL FOSTER
DB N/F PG N/F

MAXWELL RICHARD MCWATERS
DB 7436 PG 537

LINA M. ALEXANDER
DB 1169 PG 823

-L- +91.00 104.00' LT
-L- +79.00 94.00' LT 103.00' LT
-L- +12.00 54.50' LT (U-4714B R/W) 82.00' LT
BEGIN U-4714B -L- +50.00
-L- +90.97 53.27' RT EXIST. R/W
-L- +90.98 69.39' RT

S 38°12'43.5" E

FOR -L- PROFILE VIEW, SEE SHEET 17

22-SEP-2023 14:07
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$$$$ USERNAME $$$$

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09/08/99

TIP PROJECT: U-4714AC

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4714AC	RW01	28

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

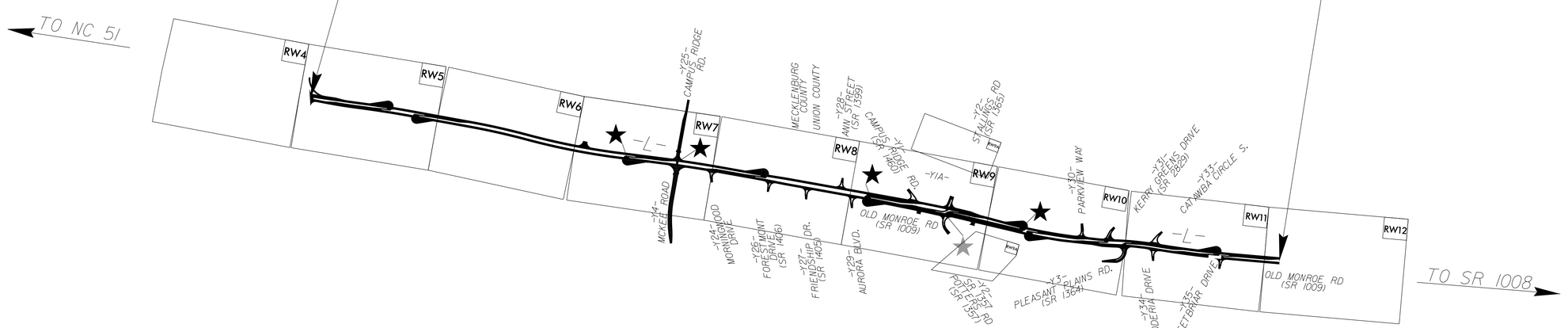
SURVEY CONTROL, EXISTING CENTERLINES,
RIGHT OF WAY, EASEMENTS AND PROPERTY TIES

MECKLENBURG & UNION COUNTY

NAD 83 /NA 2011

BEGIN TIP PROJECT U-4714AC
-L- POT STA. 93+93.70

END TIP PROJECT U-4714AC
BEGIN TIP PROJECT U-4714B
-L- POT STA. 193+50.61



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 "I5507-14" WITH NAD 83/NSRS 2011 STATE PLANE GRID COORDINATES OF NORTHING: 483188.9820(ft) EASTING: 1457726.4270(ft) ELEVATION: 629.30(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99984880 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "I5507-14" TO -L- STATION 93+93.70 IS N 67-22'21.0" E 33,971.10(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

Prepared in the Office of:

WSP USA Inc.
128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: ***LETTING DATE:***

PROFESSIONAL LAND SURVEYOR

NORTH CAROLINA PROFESSIONAL SEAL L-5368 LAND SURVEYOR THEODORE C. BENROW

DocuSigned by: Clint Benrow 9831C13D55AA49E...

SIGNATURE: ***Date:***

STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION •

10-AUG-2022 14:03
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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	rw02c-1

Location and Surveys

WSP USA Inc.
128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

PROJECT SURVEYOR

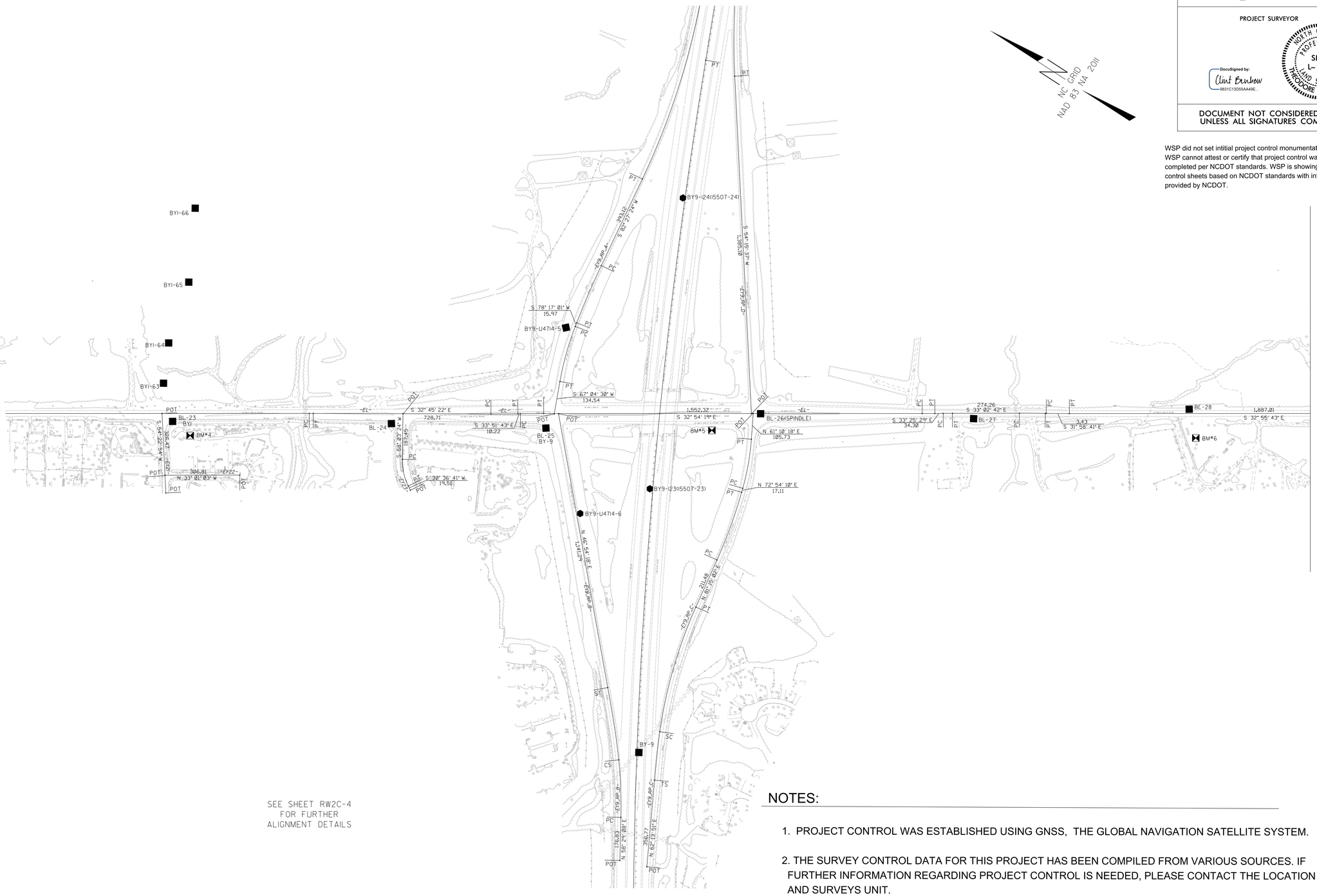
DocuSigned by: Clint Benbow 9831C13D55AA49E...

NORTH CAROLINA PROFESSIONAL SEAL L-5368 LAND SURVEYOR THEODORE C. BENBOW

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

WSP did not set initial project control monumentation. WSP cannot attest or certify that project control was completed per NCDOT standards. WSP is showing graphically control sheets based on NCDOT standards with information provided by NCDOT.

NC GRID NAD 83 NA 2011



SEE SHEET RW2C-4
FOR FURTHER
ALIGNMENT DETAILS

MATCHLINE11632.41RW02C-2

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

19-AUG-2022 14:06
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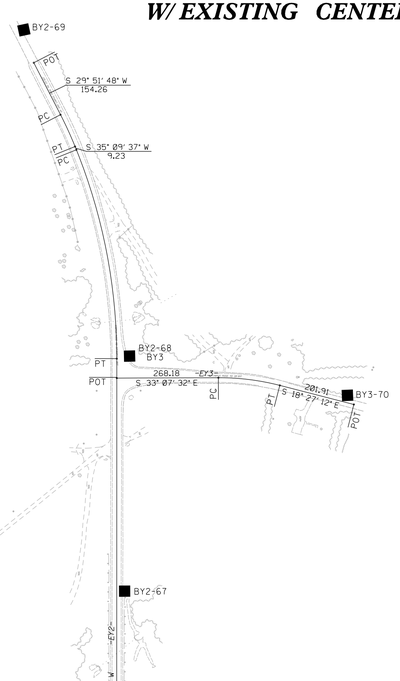
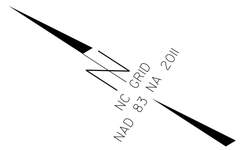
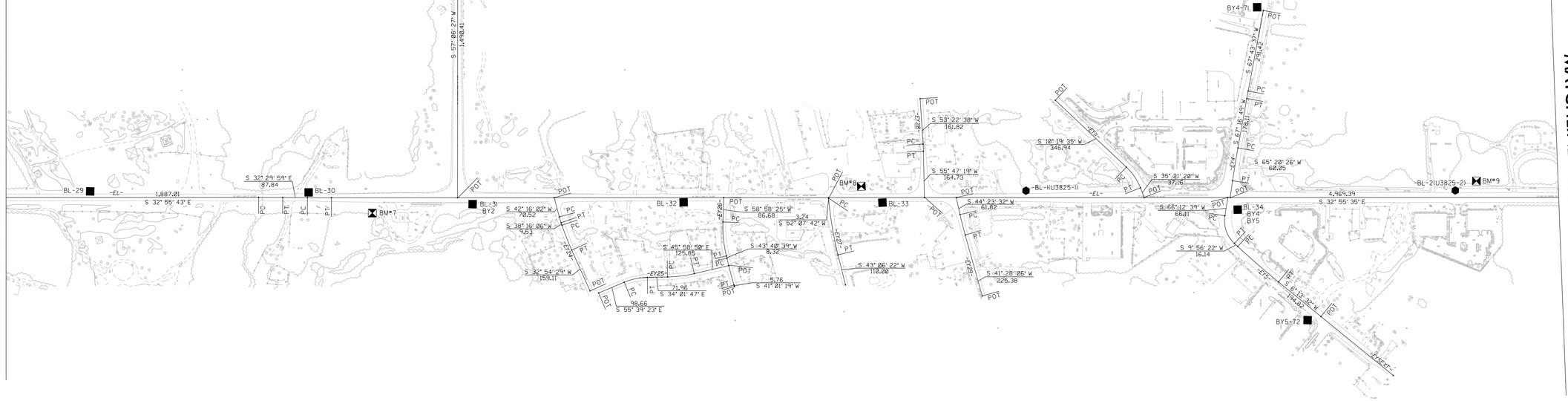
REVISIONS

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION







SEE SHEET RW2C-4
FOR FURTHER
ALIGNMENT DETAILS

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	rw02c-2

Location and Surveys

WSP USA Inc.
128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

PROJECT SURVEYOR

DocuSigned by:
Clint Benbow
9831C13D55AA49E...

NORTH CAROLINA PROFESSIONAL LAND SURVEYOR SEAL L-5368 THEODORE C. BENBOW

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

WSP did not set intitial project control monumentation. WSP cannot attest or certify that project control was completed per NCDOT standards. WSP is showing graphically control sheets based on NCDOT standards with information provided by NCDOT.

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.

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6/2/99

REVISIONS

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	rw02c-3
Location and Surveys	

WSP USA Inc.
128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

PROJECT SURVEYOR

DocuSigned by:
Clint Benbow
9831C13D55AA49E...

NORTH CAROLINA PROFESSIONAL SEAL L-5368 LAND SURVEYOR THEODORE C. BENBOW

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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SEE SHEET RW2C-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.

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SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	RW02C-4

Location and Surveys

WSP USA Inc.
128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

WSP did not set intitial project control monumentation. WSP cannot attest or certify that project control was completed per NCDOT standards. WSP is showing graphically control sheets based on NCDOT standards with information provided by NCDOT.

BL

POINT	DESC.	NORTH	EAST	ELEVATION
13	U4714-13	502431.5870	1483878.1190	729.79
14	U4714-14	501969.2950	1484447.2200	729.45
17	BL-17	501605.8160	1484906.6810	727.31
18	BL-18	501014.3450	1485743.6240	713.82
19	BL-19	500662.2080	1486177.8390	714.17
20	BL-20	500201.7670	1486557.7730	703.88
21	BL-21	499661.6120	1486903.9090	692.77
22	BL-22	498962.8950	1487356.4430	706.62
23	BL-23	498283.0490	1487733.4540	686.32
24	BL-24	497524.7370	1488213.6680	692.04
25	BL-25	496982.7900	1488542.3980	700.94
26	BL-26 SPINDLE	496275.5810	1489070.3420	707.48
27	BL-27	495531.1460	1489527.9660	691.81
28	BL-28	494809.8640	1490040.8930	704.45
29	BL-29	494143.5810	1490476.8990	727.29
30	BL-30	493489.2510	1490896.0780	733.00
31	BL-31	492976.6380	1491178.1300	743.68
32	BL-32	492350.0570	1491591.5050	754.96
33	BL-33	491755.6500	1491974.8830	780.07
1	U3825-1	491349.7610	1492287.8550	788.71
34	BL-34	490680.8650	1492640.4970	777.57
2	U3825-2	490068.0830	1493118.4600	766.92
35	BL-35	489244.6030	1493672.7640	759.05
36	BL-36	488434.5350	1494232.0550	753.15
37	BL-37	487863.1470	1494688.3820	733.39
38	BL-38	487349.0790	1495098.4040	726.60
39	BL-39	486655.2620	1495634.1040	727.93
40	BL-40	485789.4990	1496309.4330	721.72
76	BY6-76	485640.9690	1496424.4800	719.96
41	BL-41	484960.2050	1496910.5710	708.66
42	BL-42	484139.0410	1497611.2680	712.56
43	BL-43	483660.0140	1498119.3940	717.49
44	BL-44	483278.2860	1498875.7670	710.67
45	BL-45	482916.2220	1499498.7310	691.21
46	BL-46	482636.2470	1500115.8540	683.60
47	BL-47	482411.6950	1500892.5350	680.35
49	BL-49	481673.2870	1501640.6860	673.91
50	BL-50	480938.6640	1502443.8080	668.15
51	BL-51	480230.6210	1503151.8400	686.62
52	BL-52	479894.7140	1503431.7860	681.10
53	BL-53	479479.9400	1503848.3590	662.61
54	BL-54	478939.6310	1504390.9980	650.38
55	BL-55	478326.1930	1505004.2850	656.38
56	BL-56	477762.0530	1505565.8790	661.82
57	BL-57	477228.8270	1506337.1960	671.53
58	BL-58	476587.1290	1507062.2160	659.22
59	BL-59	476186.4760	1507606.2340	668.12
60	BL-60	475730.9190	1508195.4360	661.53
61	BL-61	475255.9220	1508945.1950	664.82
15	U4714-15	474726.7700	1509580.0720	664.24
16	U4714-16	474295.3110	1510156.4040	658.68

BY2

POINT	DESC.	NORTH	EAST	ELEVATION
69	BY2-69	494520.9430	1493014.9740	767.13
68	BY2-68	493818.8530	1492443.6240	747.28
67	BY2-67	493492.6620	1491915.5730	749.00
402	BL-31	492976.6380	1491178.1300	743.68

BY4

POINT	DESC.	NORTH	EAST	ELEVATION
71	BY4-71	491013.7890	1493282.2180	765.31
404	BL-34	490680.8650	1492640.4970	777.57

BY5

POINT	DESC.	NORTH	EAST	ELEVATION
405	BL-34	490680.8650	1492640.4970	777.57
72	BY5-72	490258.8140	1492445.9480	782.46

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.

REVISIONS

6/2/99

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REVISIONS

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USSV709137 AT 7FMF5M3

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	RW02C-5

Location and Surveys

WSP USA Inc.
128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

WSP did not set intitial project control monumentation. WSP cannot attest or certify that project control was completed per NCDOT standards. WSP is showing graphically control sheets based on NCDOT standards with information provided by NCDOT.

```
BM4       ELEVATION = 694.71
N 498191      E 1487724
TIE SPIKE IN 10" PINE
```

```
BM5       ELEVATION = 707.18
N 496406      E 1488905
TIE SPIKE IN 18" ASH
```

```
BM6       ELEVATION = 709.49
N 494723      E 1489957
TIE SPIKE IN 42" OAK
```

```
BM7       ELEVATION = 739.19
N 493259      E 1490958
TIE SPIKE IN 15" PINE
```

```
BM8       ELEVATION = 782.63
N 491850      E 1491983
TIE SPIKE IN 15" OAK
```

```
BM9       ELEVATION = 767.92
N 490023      E 1493187
TIE SPIKE IN TWIN 12" OAK
```

```
BM10       ELEVATION = 757.61
N 488373      E 1494095
TIE SPIKE IN 15" PINE
```

```
BM11       ELEVATION = 733.18
N 487001      E 1495372
TIE SPIKE IN 36" OAK
```

```
BM12       ELEVATION = 725.52
N 486022      E 1496050
TIE SPIKE IN SPLIT 36" OAK
```

NOTES:

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REVISIONS

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	RW02C-6

Location and Surveys

WSP USA Inc.
128 TALBERT ROAD
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EL

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	502597.049	1483724.513							
LINE			S 51°04'09.5" E	1111.14					
PC	501898.833	1484588.873							
CURVE			S 51°22'44.3" E	123.87	00°37'09.6"(LT)	00°30'00.0"	123.87	61.93	11459.16
PT	501821.519	1484685.650							
LINE			S 51°41'19.1" E	539.13					
PC	501487.291	1485108.684							
CURVE			S 51°30'08.8" E	74.48	00°22'20.7"(RT)	00°30'00.0"	74.48	37.24	11459.16
PT	501440.926	1485166.978							
LINE			S 51°18'58.4" E	1226.80					
PC	500674.148	1486124.629							
CURVE			S 42°07'09.1" E	523.29	18°23'38.6"(RT)	03°30'00.0"	525.54	265.05	1637.02
PT	500285.997	1486475.587							
LINE			S 32°55'19.8" E	2925.23					
PC	497830.527	1488065.449							
CURVE			S 32°50'20.8" E	16.61	00°09'58.1"(RT)	01°00'00.0"	16.61	8.31	5729.58
PT	497816.569	1488074.458							
LINE			S 32°45'21.7" E	728.71					
PC	497203.741	1488468.734							
CURVE			S 33°18'32.6" E	110.60	01°06'21.7"(LT)	01°00'00.0"	110.60	55.30	5729.58
PT	497111.309	1488529.471							
LINE			S 33°51'43.4" E	10.22					
PC	497102.819	1488535.168							
CURVE			S 33°23'01.1" E	95.68	00°57'24.7"(RT)	01°00'00.0"	95.69	47.84	5729.58
PT	497022.922	1488587.817							
LINE			S 32°54'18.7" E	1552.32					
PC	495719.642	1489431.115							
CURVE			S 33°09'54.0" E	51.96	00°31'10.6"(LT)	01°00'00.0"	51.96	25.98	5729.58
PT	495676.146	1489459.541							
LINE			S 33°25'29.3" E	34.30					
PC	495647.519	1489478.434							
CURVE			S 33°14'05.7" E	37.98	00°22'47.3"(RT)	01°00'00.0"	37.98	18.99	5729.58
PT	495615.752	1489499.250							
LINE			S 33°02'42.1" E	274.26					
PC	495385.858	1489648.801							
CURVE			S 32°30'41.3" E	106.71	01°04'01.6"(RT)	01°00'00.0"	106.71	53.36	5729.58
PT	495295.873	1489706.154							
LINE			S 31°58'40.5" E	3.43					
PC	495292.960	1489707.972							
CURVE			S 32°27'11.6" E	95.06	00°57'02.2"(LT)	01°00'00.0"	95.06	47.53	5729.58
PT	495212.747	1489758.982							
LINE			S 32°55'42.7" E	1887.01					
PC	493628.888	1490784.745							
CURVE			S 32°42'50.9" E	85.75	00°25'43.6"(RT)	00°30'00.0"	85.75	42.88	11459.16
PT	493556.737	1490831.090							
LINE			S 32°29'59.1" E	87.84					
PC	493482.650	1490878.288							
CURVE			S 32°42'46.8" E	85.30	00°25'35.4"(LT)	00°30'00.0"	85.30	42.65	11459.16
PT	493410.879	1490924.387							
LINE			S 32°55'34.5" E	4969.39					
PC	489239.720	1493625.543							
CURVE			S 33°02'57.8" E	24.63	00°14'46.6"(LT)	01°00'00.0"	24.63	12.31	5729.58
PT	489219.078	1493638.974							
LINE			S 33°10'21.1" E	173.35					
PC	489073.976	1493733.826							
CURVE			S 35°41'28.1" E	671.41	05°02'14.0"(LT)	00°45'00.0"	671.63	336.03	7639.44
PT	488528.673	1494125.539							
LINE			S 38°12'35.1" E	5841.95					
PC	483938.347	1497739.032							
CURVE			S 50°50'12.9" E	501.01	25°15'15.6"(LT)	05°00'00.0"	505.09	256.71	1145.92
PT	483621.946	1498127.489							
LINE			S 63°27'50.7" E	1639.07					
PC	482889.678	1499593.889							
CURVE			S 66°54'13.5" E	392.87	06°52'45.6"(LT)	01°45'00.0"	393.10	196.79	3274.04
PT	482735.564	1499955.268							
LINE			S 70°20'36.3" E	830.63					
PC	482456.154	1500737.497							
CURVE			S 57°42'10.9" E	501.52	25°16'50.7"(RT)	05°00'00.0"	505.62	256.99	1145.92
PT	482188.186	1501161.430							
LINE			S 45°03'45.5" E	6207.94					
PC	477803.311	1505555.904							
CURVE			S 49°07'10.5" E	405.35	08°06'49.9"(LT)	02°00'00.0"	405.69	203.19	2864.79
PT	477538.015	1505862.383							
LINE			S 53°10'35.4" E	5492.13					
POT	474246.293	1510258.757							

EY2

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	494451.926	1492956.491							
LINE			S 29°51'48.5" W	154.26					
PC	494318.150	1492879.680							
CURVE			S 32°30'42.7" W	92.41	05°17'48.4"(RT)	05°43'46.5"	92.45	46.26	1000.00
PT	494240.220	1492830.010							
LINE			S 35°09'36.9" W	9.23					
PC	494232.671	1492824.693							
CURVE			S 46°08'02.0" W	561.55	21°56'50.1"(RT)	03°53'04.1"	565.00	286.01	1475.00
PT	493843.529	1492419.835							
LINE			S 57°06'27.0" W	1490.41					
POT	493034.142	1491168.354							

EY4

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	490989.235	1493284.725							
LINE			S 67°43'36.6" W	291.42					
PC	490878.781	1493015.052							
CURVE			S 67°30'13.1" W	27.27	00°26'47.1"(LT)	01°38'13.3"	27.27	13.64	3500.00
PT	490868.347	1492989.857							
LINE			S 67°16'49.5" W	178.11					
PC	490799.557	1492825.566							
CURVE			S 66°18'37.7" W	118.49	01°56'23.5"(LT)	01°38'13.3"	118.50	59.26	3500.00
PT	490751.948	1492717.057							
LINE			S 65°20'26.0" W	60.05					
POT	490726.893	1492662.481							

EY5

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	490733.895	1492657.947							
LINE			S 66°12'39.0" W	66.11					
PC	490707.229	1492597.457							
CURVE			S 38°04'30.5" W	103.74	56°16'16.9"(LT)	52°05'13.5"	108.03	58.82	110.00
PT	490625.562	1492533.479							
LINE			S 09°56'22.1" W	16.14					
PC	490609.662	1492530.693							
CURVE			S 08°04'57.1" W	192.15	03°42'49.9"(LT)	01°55'56.7"	192.19	96.13	2965.00
PT	490419.417	1492503.676							
LINE			S 06°13'32.2" W	194.82					
POT	490225.749	1492482.549							

EY11

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	491436.945	1492614.532							
LINE			S 10°19'34.7" W	346.94					
PC	491095.620	1492552.341							
CURVE			S 22°50'27.3" W	88.84	25°01'45.3"(RT)	27°56'57.0"	89.55	45.50	205.00
PT	491013.744	1492517.855							
LINE			S 35°21'20.0" W	37.16					
POT	490983.434	1492496.350							

EY12

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	489185.610	1493660.852							
LINE			S 60°28'48.0" W	64.43					
PC	489153.865	1493604.789							
CURVE			N 89°23'32.9" W	100.39	60°15'18.2"(RT)	57°17'44.8"	105.16	58.03	100.00
PT	489154.929	1493504.409							
LINE			N 59°15'53.8" W	2.83					
PC	489156.376	1493501.976							
CURVE			N 54°23'32.7" W	59.46	09°44'42.2"(RT)	16°22'12.8"	59.53	29.84	350.00
PT	489190.994	1493453.635							
LINE			N 49°31'11.6" W	153.24					
PC	489290.476	1493337.075							
CURVE			N 60°28'33.6" W	288.89	21°54'44.0"(LT)	07°32'20.1"	290.65	147.12	760.00
PT	489432.836	1493085.700							
LINE			N 71°25'55.7" W	16.31					
POT	489438.031	1493070.237							

EY24

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	492745.503	1491355.271							
LINE			S 42°16'02.0" W	70.52					
PC	492693.320	1491307.842							
CURVE			S 40°16'04.2" W	21.81	03°59'55.6"(LT)	18°19'42.5"	21.82	10.91	312.61
PT	492676.676	1491293.743							
LINE			S 38°16'06.4" W	9.53					
PC	492669.191	1491287.838							
CURVE			S 35°35'17.9" W	95.06	05°21'36.9"(LT)	05°38'12.0"	95.10	47.58	1016.48
PT	492591.885	1491232.516							
LINE			S 32°54'29.5" W	159.11					
POT	492458.304	1491146.072							

EY25

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	492428.749	1491156.568							
LINE			S 55°39'23.1" E	98.66					
PC	492373.092	1491238.024							
CURVE			S 44°50'35.1" E	84.07	21°37'36.0"(RT)	25°34'15.3"	84.58	42.80	224.07
PT	492313.480	1491297.310							
LINE			S 34°01'47.1" E	71.96					
PC	492253.842	1491337.582							
CURVE			S 40°00'18.5" E	95.73	11°57'02.7"(LT)	12°27'41.1"	95.90	48.13	459.79
PT	492180.515	1491399.122							
LINE			S 45°58'49.9" E	125.85					
POT	492093.061	1491489.622							

NOTES:

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REVISIONS

SURVEY CONTROL SHEET

W/ EXISTING CENTERLINE ALIGNMENTS PRIOR TO CONSTRUCTION

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	RW02C-7

Location and Surveys

WSP USA Inc.
128 TALBERT ROAD
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EY26

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	492239.386	1491683.233							
LINE			S 58°58'25.4" W	86.68					
PC	492194.707	1491608.952							
CURVE			S 51°19'32.5" W	121.45	15°17'46.0"(LT)	12°33'27.3"	121.81	61.27	456.26
PT	492118.816	1491514.137							
LINE			S 43°40'39.5" W	8.32					
PC	492112.802	1491508.394							
CURVE			S 42°20'59.2" W	98.57	02°39'20.6"(LT)	02°41'38.0"	98.58	49.30	2126.88
PT	492039.951	1491441.989							
LINE			S 41°01'18.9" W	5.76					
POT	492035.608	1491438.211							

EY27

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	491926.146	1491885.477							
LINE			S 52°07'41.5" W	3.24					
PC	491924.156	1491882.917							
CURVE			S 47°37'01.7" W	202.94	09°01'19.7"(LT)	04°26'28.1"	203.15	101.79	1290.12
PT	491787.358	1491733.014							
LINE			S 43°06'21.8" W	110.00					
POT	491707.048	1491657.846							

EY28

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	491843.893	1492358.093							
LINE			S 53°22'38.3" W	161.82					
PC	491747.359	1492228.218							
CURVE			S 54°34'58.9" W	25.52	02°24'41.2"(RT)	09°27'00.9"	25.52	12.76	606.29
PT	491732.572	1492207.424							
LINE			S 55°47'19.4" W	164.73					
POT	491639.954	1492071.198							

EY29

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	491545.051	1492132.671							
LINE			S 44°23'32.2" W	61.82					
PC	491500.876	1492089.423							
CURVE			S 42°55'49.0" W	74.86	02°55'26.5"(LT)	03°54'20.3"	74.87	37.44	1467.00
PT	491446.066	1492038.437							
LINE			S 41°28'05.8" W	225.38					
POT	491277.187	1491889.191							

EY30

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	489838.289	1493658.681							
LINE			S 42°11'38.2" W	220.04					
PC	489675.269	1493510.895							
CURVE			S 42°17'59.3" W	52.29	00°12'42.0"(RT)	00°24'17.3"	52.29	26.15	14154.20
PT	489636.593	1493475.703							
LINE			S 42°24'20.3" W	0.00					
PC	489636.592	1493475.702							
CURVE			S 50°13'23.1" W	50.25	15°38'05.7"(RT)	31°01'08.7"	50.40	25.36	184.71
PT	489604.443	1493437.085							
LINE			S 58°02'25.9" W	40.07					
POT	489583.234	1493403.089							

EY31

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	489245.237	1494076.894							
LINE			N 81°26'59.5" W	16.32					
PC	489247.663	1494060.756							
CURVE			N 66°30'45.8" W	156.16	29°52'27.4"(RT)	18°54'52.1"	157.94	80.81	302.92
PT	489309.901	1493917.533							
LINE			N 51°34'32.1" W	60.68					
PC	489347.613	1493869.993							
CURVE			N 83°34'46.5" W	305.84	64°00'28.8"(LT)	19°51'25.3"	322.34	180.33	288.54
PT	489381.814	1493566.069							
LINE			S 64°24'59.1" W	20.00					
POT	489373.177	1493548.030							

EY32

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	489589.363	1493843.448							
LINE			S 41°19'49.4" W	29.72					
PC	489567.044	1493823.819							
CURVE			S 28°11'13.9" W	130.96	26°17'11.0"(LT)	19°53'48.2"	132.11	67.24	287.97
PT	489451.616	1493761.961							
LINE			S 15°02'38.4" W	49.21					
POT	489404.092	1493749.188							

EY33

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	489020.563	1494228.137							
LINE			S 89°35'36.6" W	19.65					
PC	489020.423	1494208.492							
CURVE			N 88°26'23.9" W	89.40	03°55'59.1"(RT)	04°23'54.9"	89.42	44.73	1302.60
PT	489022.857	1494119.126							
LINE			N 86°28'24.3" W	171.35					
PC	489033.397	1493948.097							
CURVE			S 87°05'55.0" W	102.39	12°51'21.3"(LT)	12°31'44.5"	102.61	51.52	457.30
PT	489028.214	1493845.834							
LINE			S 80°40'14.4" W	74.72					
POT	489016.102	1493772.105							

EY34

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	488975.702	1493799.157							
LINE			S 44°00'37.7" W	43.79					
PC	488944.210	1493768.735							
CURVE			S 42°36'50.3" W	123.51	02°47'34.9"(LT)	02°15'39.9"	123.53	61.78	2533.99
PT	488853.312	1493685.109							
LINE			S 41°13'02.8" W	168.26					
POT	488726.744	1493574.239							

EY35

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	488421.281	1494210.417							
LINE			S 56°27'55.4" W	174.93					
PC	488324.644	1494064.606							
CURVE			S 74°29'41.4" W	99.39	36°03'31.9"(RT)	35°41'03.0"	101.05	52.26	160.56
PT	488298.074	1493968.832							
LINE			N 87°28'32.7" W	35.35					
POT	488299.631	1493933.515							

EY36

POINT	N	E	BEARING	DIST	DELTA	D	L	T	R
POT	488072.359	1494112.259							
LINE			N 00°50'00.5" W	2.86					
PC	488075.223	1494112.217							
CURVE			N 09°19'49.4" W	123.34	16°59'37.7"(LT)	13°43'39.0"	123.79	62.35	417.38
PT	488196.931	1494092.220							
LINE			N 17°49'38.2" W	126.95					
POT	488317.787	1494053.355							

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.

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6/2/99

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	RW02D-1

Location and Surveys

WSP USA Inc.
128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

PROPOSED ALIGNMENT CONTROL SHEET

L

TYPE	STATION	NORTH	EAST
POT	10+00.00	502597.0485	1483724.5132
PC	16+07.20	502215.4955	1484196.8590
PRC	18+42.17	502063.6092	1484376.1034
PT	21+05.65	501893.8642	1484577.5855
PC	38+87.84	500781.8988	1485970.3278
PT	48+55.13	500067.9616	1486616.7597
PC	63+99.15	498771.8996	1487455.9314
PRC	68+39.99	498408.6443	1487705.5973
PRC	79+19.46	497503.6312	1488293.0272
PT	84+50.70	497050.3231	1488569.9059
PC	95+41.34	496134.9917	1489162.9289
PRC	100+20.16	495739.5262	1489432.7985
PT	105+11.09	495333.8893	1489709.2492
PC	111+34.50	494810.2778	1490047.5856
PRC	117+10.14	494314.4956	1490339.7758
PT	126+53.86	493514.9511	1490839.7640
PC	131+01.26	493152.4564	1491101.9897
PT	137+01.65	492657.4056	1491441.5720
PC	155+81.28	491081.2809	1492465.7070
PRC	165+41.65	490252.1181	1492949.5278
PRC	177+14.71	489284.5143	1493607.9421
PRC	180+96.80	488980.7992	1493839.3619
PT	188+91.75	488337.3088	1494305.7658
POT	210+00.99	486680.0219	1495610.4878

L1

TYPE	STATION	NORTH	EAST
POT	10+00.00	489906.0525	1487090.6455
PC	15+66.08	490226.4160	1487557.3549
PT	17+42.59	490322.7889	1487705.2103
PC	18+63.66	490386.4537	1487808.1870
PT	20+23.98	490479.1972	1487938.8281
PC	22+66.22	490631.6957	1488127.0374
PT	25+87.99	490812.5349	1488392.7319
PC	27+74.79	490904.4194	1488555.3748
PT	29+72.46	491010.2840	1488722.2021
PC	46+14.02	491959.6264	1490061.4055
PT	50+11.03	492238.8941	1490340.9565
PC	53+75.00	492535.6113	1490551.7474
PT	58+22.26	492843.0564	1490872.8968
POT	61+88.96	493042.1953	1491180.8070

Y

TYPE	STATION	NORTH	EAST
POT	10+00.00	501837.5915	1485148.5419
POT	13+12.26	501593.9298	1484953.2549
POT	16+32.83	501343.7875	1484752.7740

Y1

TYPE	STATION	NORTH	EAST
POT	10+00.00	491436.9453	1492614.5325
PC	10+26.81	491410.5725	1492609.7272
PT	13+28.93	491165.9819	1492446.8790
POT	13+59.29	491149.4388	1492421.4194

Y1A

TYPE	STATION	NORTH	EAST
POT	10+00.00	491281.1340	1492559.7726
PC	10+11.67	491275.6472	1492570.0772
PT	12+01.94	491147.9640	1492708.3213
POT	15+73.38	490834.9816	1492908.3458

Y2

TYPE	STATION	NORTH	EAST
POT	10+00.00	490740.5337	1492677.5194
POT	17+37.47	491020.0502	1493359.9613

Y2A

TYPE	STATION	NORTH	EAST
POT	10+00.00	490740.5337	1492677.5194
PC	10+52.91	490720.4813	1492628.5613
PT	12+38.13	490577.5162	1492520.9223
POT	19+23.67	489896.0268	1492446.5807

Y2B

TYPE	STATION	NORTH	EAST
POT	10+00.00	490251.9969	1492485.4124
PC	10+74.63	490243.9038	1492559.6026
PT	13+26.06	490294.7263	1492802.2712
POT	14+36.46	490349.7337	1492897.9983

Y3

TYPE	STATION	NORTH	EAST
POT	10+00.00	489226.5649	1493656.9696
PC	10+77.07	489177.6519	1493597.4115
PCC	12+08.64	489174.0170	1493475.1833
PT	12+36.08	489190.9943	1493453.6355
PC	13+89.32	489290.4763	1493337.0751
PT	16+79.97	489432.8362	1493085.7005

Y4

TYPE	STATION	NORTH	EAST
POT	10+00.00	493042.1953	1491180.8070
PC	13+66.69	492843.0564	1490872.8968
PT	18+13.96	492535.6113	1490551.7474
POT	21+77.93	492238.8941	1490340.9565

Y14

TYPE	STATION	NORTH	EAST
POT	10+00.00	502468.6540	1484421.3419
POT	13+38.02	502205.1551	1484209.6171

Y15

TYPE	STATION	NORTH	EAST
POT	10+00.00	502196.1917	1484220.6072
POT	13+74.51	501901.7443	1483989.1811

Y16

TYPE	STATION	NORTH	EAST
POT	10+00.00	502156.0975	1484783.4540
PC	12+81.19	501938.5925	1484605.2357
PT	13+20.36	501908.6265	1484580.0243
PC	14+49.82	501810.6555	1484495.3997
PT	15+40.24	501741.6680	1484436.9463
POT	16+76.13	501637.1575	1484350.0878

Y17

TYPE	STATION	NORTH	EAST
POT	10+00.00	501795.5577	1485419.5402
POT	14+48.50	501443.5719	1485141.5790

Y18

TYPE	STATION	NORTH	EAST
POT	10+00.00	500189.7204	1486533.6071
PC	10+47.16	500176.3597	1486488.3821
PRC	10+84.54	500164.5803	1486452.9067
PT	11+70.52	500141.1376	1486370.2730
PC	12+76.23	500120.2474	1486266.6520
PT	13+27.16	500107.6677	1486217.3276
POT	13+41.30	500103.4807	1486203.8160

Y19

TYPE	STATION	NORTH	EAST
POT	10+00.00	499742.0892	1486827.7549
PC	10+38.94	499719.0957	1486796.3324
PT	11+77.09	499612.3587	1486711.1968
POT	13+12.41	499488.1165	1486657.5655

Y20

TYPE	STATION	NORTH	EAST
POT	10+00.00	499286.2005	1487122.9328
PC	12+32.30	499160.0087	1486927.8958
PT	12+90.12	499127.4700	1486880.1107
POT	13+12.58	499114.3928	1486861.8455

Y21

TYPE	STATION	NORTH	EAST
POT	10+00.00	498346.5789	1487750.4592
POT	13+42.54	498147.0892	1487472.0040

Y23

TYPE	STATION	NORTH	EAST
POT	10+00.00	497515.0117	1488286.4746
PC	12+02.33	497407.9621	1488114.7822
PT	13+15.57	497327.7361	1488036.4000
POT	13+35.08	497310.9454	1488026.4655

Y24

TYPE	STATION	NORTH	EAST
POT	10+00.00	492763.6306	1491371.7461
PC	10+95.01	492693.3203	1491307.8421
PT	11+16.83	492676.6765	1491293.7431
PC	11+26.36	492669.1909	1491287.8381
PT	12+21.46	492591.8852	1491232.5165
POT	13+80.57	492458.3038	1491146.0717

Y25

TYPE	STATION	NORTH	EAST
POT	10+00.00	493843.5286	1492419.8353
POT	24+75.58	493042.1953	1491180.8070

Y26

TYPE	STATION	NORTH	EAST
POT	10+00.00	492252.3429	1491704.7738
PC	11+11.82	492194.7073	1491608.9516
PT	12+33.63	492118.8164	1491514.1372
PC	12+41.94	492112.8017	1491508.3939
PT	13+40.53	492039.9511	1491441.9892

Y27

TYPE	STATION	NORTH	EAST
POT	10+00.00	491942.2916	1491906.2391
PC	10+29.54	491924.1545	1491882.9172
PT	12+32.69	491787.3564	1491733.0141
POT	13+42.69	491707.0468	1491657.8458

Y28

TYPE	STATION	NORTH	EAST
POT	10+00.00	491843.8926	1492358.0930
PC	11+61.82	491747.3591	1492228.2180
PT	11+87.34	491732.5724	1492207.4242
POT	13+25.65	491654.8054	1492093.0420

Y29

TYPE	STATION	NORTH	EAST
POT	10+00.00	491564.5058	1492151.7169
PC	10+89.05	491500.8764	1492089.4231
PT	11+63.91	491446.0663	1492038.4365
POT	13+89.29	491277.1869	1491889.1913

Y30

TYPE	STATION	NORTH	EAST
POT	10+00.00	489838.2892	1493658.6815
PC	12+20.04	489675.2685	1493510.8947
PCC	12+72.33	489636.5927	1493475.7026
PT	13+22.73	489604.4430	1493437.0838
POT	13+90.95	489568.3348	1493379.2074

Y31

TYPE	STATION	NORTH	EAST
POT	10+00.00	489245.2370	1494076.8942
PC	10+16.32	489247.6633	1494060.7560
PT	11+74.26	489309.9006	1493917.5331
PC	12+34.95	489347.6134	1493869.9930
PT	15+57.29	489381.8135	1493566.0694
POT	15+89.39	489367.9505	1493537.1137

Y33

TYPE	STATION	NORTH	EAST
POT	10+00.00	489020.5625	1494228.1370
PC	10+19.65	489020.4231	1494208.4924
PT	11+09.06	489022.8570	1494119.1262
PC	12+80.42	489033.3972	1493948.0967
PT	13+83.03	489028.2143	1493845.8340
POT	14+18.24	489022.5054	1493811.0837

Y34

TYPE	STATION	NORTH	EAST
POT	10+00.00	488726.7440	1493574.2392
PC	11+68.26	488853.3121	1493685.1092
PT	12+91.79	488944.2100	1493768.7351
POT	13+72.61	489002.3358	1493824.8871

Y35

TYPE	STATION	NORTH	EAST
POT	10+00.00	488434.4353	1494230.2646
PC	11+98.74	488324.6440	1494064.6056
PT	12+99.79	488298.0743	1493968.8321
POT	13+35.14	488299.6313	1493933.5145

Y36

TYPE	STATION	NORTH	EAST
POT	210+00.99	486680.0219	1495610.4878
EQB	288+42.94	493843.5286	1492419.8353
EQA	24+90.41	493843.5286	1492419.8353
PT	30+55.41	494232.6714	1492824.6934
PC	30+64.64	494240.2198	1492830.0103
PT	31+57.09	494318.1503	1492879.6802
EQB	112+68.70	486680.0219	1495610.4878
EQA	210+00.99	486680.0219	1495610.4878

YLPB

TYPE	STATION	NORTH	EAST
PC	10+00.00	782230.6162	2036676.8728
PT	17+52.98	782912.9296	2036424.5628

YRPB

TYPE	STATION	NORTH	EAST
PC	10+00.00	780109.7372	2042643.6841
PT	15+09.29	780082.9801	2042140.8853

REVISIONS

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.

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REVISIONS

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	RW03E-1

Location and Surveys

WSP USA Inc.
128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

ROW MARKER PERMANENT EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
L	102+40.00	109.10	495497.8874	1489469.0563
L	102+40.00	113.00	495495.6842	1489465.8413
L	103+57.76	100.42	495406.2431	1489541.5464
L	103+89.50	105.51	495377.2788	1489554.7259
L	103+89.50	120.55	495368.9590	1489542.1871
L	104+00.00	-134.97	495501.3659	1489760.9830
L	104+35.50	121.00	495330.7892	1489566.8541
L	104+49.50	-135.00	495459.4821	1489788.5980
L	104+49.50	-69.53	495423.6142	1489733.8316
L	106+34.00	119.99	495165.5379	1489675.1748
L	107+95.00	-47.50	495121.2100	1489903.2273
L	107+95.00	-95.00	495146.9891	1489943.1232
L	108+32.00	-95.00	495115.9123	1489963.2038
L	108+68.65	-95.00	495085.1322	1489983.0926
L	111+89.00	-137.00	494837.8442	1490192.6276
L	112+24.00	-47.50	494760.0660	1490135.8980
L	112+24.00	-116.00	494796.5036	1490193.9027
L	112+70.00	-80.00	494737.8756	1490188.0376
L	112+70.00	-47.50	494720.7689	1490160.4041
L	113+05.00	-79.00	494707.2078	1490205.7425
L	113+05.00	-47.50	494690.7616	1490178.8767
L	113+40.00	123.00	494572.3720	1490051.3392
L	119+97.00	120.00	494003.5163	1490376.8951
L	119+97.00	109.50	494008.8462	1490385.9417
L	120+07.00	109.50	494000.0993	1490391.1035
L	120+07.00	120.00	493994.7564	1490382.0645
L	120+40.50	-82.00	494069.0829	1490572.8725
L	120+40.50	-50.49	494052.9215	1490545.8271
L	120+76.00	-51.66	494023.3170	1490564.9806
L	120+76.00	-82.00	494039.0120	1490590.9455
L	120+81.00	106.00	493937.4154	1490432.6824
L	122+17.00	263.00	493736.1103	1490372.6312
L	122+17.00	274.00	493730.2314	1490363.3339
L	122+28.00	265.00	493725.3970	1490377.0498
L	122+31.04	-54.78	493894.1808	1490648.6734
L	122+31.04	-65.00	493899.6612	1490657.3022
L	122+50.00	-104.00	493904.8131	1490700.2613
L	122+55.00	279.00	493694.2187	1490380.3166
L	122+61.00	106.00	493782.3403	1490529.3186
L	122+96.00	89.00	493761.7251	1490562.8354

ROW MARKER PERMANENT EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
L	123+06.00	89.00	493753.2312	1490568.3500
L	123+69.00	83.50	493702.9409	1490607.9546
L	123+76.00	-118.00	493808.5693	1490779.6917
L	123+79.00	97.00	493687.0344	1490602.3129
L	123+79.00	85.00	493693.6807	1490612.3043
L	123+94.00	109.00	493667.7135	1490600.7723
L	123+94.00	99.00	493673.2699	1490609.0866
L	124+02.00	100.50	493665.6921	1490612.3522
L	124+02.00	108.00	493661.5177	1490606.1213
L	124+61.12	-53.05	493702.5540	1490772.7777
L	124+61.12	-65.00	493709.2895	1490782.6500
L	124+75.00	111.00	493598.4550	1490645.2246
L	124+75.00	133.35	493585.8249	1490626.7910
L	125+11.00	116.00	493565.4923	1490661.8626
L	125+11.00	134.00	493555.2421	1490647.0662
L	125+31.50	-117.00	493681.6226	1490864.8966
L	125+31.50	-91.00	493666.7543	1490843.5675
L	125+80.00	-117.00	493642.5955	1490892.3036
L	125+80.00	-82.00	493622.3819	1490863.7307
L	126+12.88	-65.00	493586.0157	1490868.7274
L	127+31.00	110.00	493387.9799	1490795.8498
L	127+31.00	154.00	493362.1910	1490760.1998
L	127+31.00	164.50	493356.0368	1490751.6923
L	127+40.00	-47.50	493473.0007	1490928.7360
L	127+40.00	-105.00	493506.7022	1490975.3241
L	127+42.00	153.50	493353.5715	1490767.0521
L	127+42.00	164.50	493347.1243	1490758.1396
L	128+61.00	129.00	493271.5140	1490856.6502
L	128+61.00	123.00	493275.0307	1490861.5116
L	128+73.00	120.00	493267.0663	1490870.9756
L	128+73.00	128.00	493262.3774	1490864.4938
L	129+75.00	-87.00	493305.7483	1491098.4766
L	129+75.00	-78.00	493300.4733	1491091.1845
L	129+87.00	-73.00	493287.8200	1491094.1668
L	129+87.00	-87.00	493296.0256	1491105.5100
L	129+95.00	-73.00	493281.3381	1491098.8557
L	129+95.00	-47.50	493266.3923	1491078.1948
L	129+97.00	97.00	493180.0784	1490962.2889
L	129+97.00	88.00	493185.3535	1490969.5810
L	130+08.00	97.00	493171.1659	1490968.7362
L	130+08.00	87.00	493177.0271	1490976.8385
L	131+33.86	88.00	493074.6308	1491049.6226
L	133+50.00	-81.00	492995.5287	1491312.2785

I, Thedore C. Benbow, PLS, 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) (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 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 15th day of August, 2022.

DocuSigned by:
Clint Benbow
9831C13D55AA49E...

Professional Land Surveyor

L-5368
PLS #

Seal

NORTH CAROLINA PROFESSIONAL SEAL L-5368 LAND SURVEYOR THEODORE C. BENBOW

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.

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6/2/99

REVISIONS

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	RW03E-2
Location and Surveys	

WSP USA Inc.
128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

ROW MARKER PERMANENT EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
L	133+50.00	-61.17	492984.2424	1491295.9753
L	133+52.01	89.00	492897.1267	1491173.6384
L	133+56.00	-96.00	492999.0931	1491328.0528
L	133+56.00	-81.00	492990.5613	1491315.7154
L	133+67.00	-80.00	492980.8820	1491321.1871
L	133+67.00	-95.00	492989.4024	1491333.5322
L	133+71.00	-80.00	492977.5676	1491323.4738
L	133+71.00	-59.50	492965.9287	1491306.5982
L	133+99.00	-93.00	492961.7016	1491350.1686
L	134+00.00	96.00	492853.9414	1491194.8954
L	134+00.00	120.00	492840.3631	1491175.1058
L	134+03.00	-77.00	492949.3286	1491339.2536
L	134+07.00	-99.00	492958.4445	1491359.6775
L	134+15.00	-59.80	492929.6518	1491331.8841
L	134+16.00	-86.00	492943.6166	1491354.0750
L	134+46.00	-115.00	492934.9735	1491395.0803
L	135+00.00	-115.00	492889.8334	1491425.6502
L	135+36.00	116.00	492731.1396	1491253.9731
L	135+36.00	124.00	492726.6885	1491247.3257
L	135+47.00	116.00	492722.0849	1491260.0300
L	135+47.00	124.00	492717.6400	1491253.3785
L	135+68.80	-94.32	492820.6609	1491447.0916
L	136+42.00	-91.00	492757.3031	1491485.0059
L	136+42.00	-107.00	492766.0874	1491498.3789
L	136+53.00	-93.00	492749.1332	1491492.7593
L	136+53.00	-107.00	492756.8088	1491504.4677
L	136+61.00	84.00	492645.4472	1491349.0852
L	137+08.00	85.00	492605.7674	1491373.7573
L	137+10.00	-87.00	492697.8061	1491519.0738
L	137+29.00	90.00	492585.4340	1491381.0067
L	137+38.00	94.00	492575.7079	1491382.5563
L	137+44.00	82.00	492577.2150	1491395.8878
L	137+94.00	82.00	492535.2886	1491423.1308
L	137+94.00	85.00	492533.6540	1491420.6152
L	138+16.00	-102.00	492617.0950	1491589.4068
L	138+70.00	85.00	492469.9259	1491462.0245
L	139+88.00	86.00	492370.4348	1491525.4793
L	139+88.00	95.00	492365.5311	1491517.9326
L	140+16.00	95.00	492342.0523	1491533.1886
L	140+16.00	86.00	492346.9560	1491540.7354

ROW MARKER PERMANENT EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
L	141+38.00	86.00	492244.6556	1491607.2081
L	142+45.00	97.00	492148.9397	1491656.2842
L	142+55.00	97.00	492140.5544	1491661.7328
L	142+55.00	87.00	492146.0030	1491670.1181
L	142+96.00	-85.00	492205.3391	1491836.6841
L	143+02.45	-50.33	492181.0365	1491811.1271
L	143+02.45	-70.55	492192.0540	1491828.0829
L	143+53.00	93.00	492060.5582	1491718.4831
L	143+53.00	87.00	492063.8273	1491723.5143
L	143+63.00	96.00	492050.5383	1491721.4161
L	143+67.00	86.00	492052.6328	1491731.9808
L	143+91.00	-51.00	492107.1538	1491859.9358
L	143+97.00	-69.00	492111.9301	1491878.2984
L	144+11.00	-80.00	492106.1842	1491895.1502
L	144+25.00	-51.00	492078.6439	1491878.4610
L	144+25.00	-75.00	492091.7205	1491898.5856
L	146+05.00	84.00	491854.1529	1491863.3343
L	147+06.50	-63.71	491849.5254	1492042.4994
L	147+06.50	-51.00	491842.5983	1492031.8388
L	147+17.25	-91.50	491855.6484	1492071.6580
L	147+19.50	-65.70	491839.7069	1492051.2483
L	147+41.50	-95.50	491837.4961	1492088.2233
L	147+49.00	-71.00	491817.8581	1492071.7658
L	147+71.00	-51.00	491788.5133	1492066.9822
L	147+71.00	-76.50	491802.4072	1492088.3646
L	147+95.00	-51.00	491768.3886	1492080.0588
L	148+03.00	81.00	491689.7590	1491973.7320
L	148+06.00	91.00	491681.7948	1491966.9813
L	148+16.00	81.00	491678.8581	1491980.8151
L	148+16.00	87.00	491675.5890	1491975.7840
L	148+49.48	-77.67	491737.2393	1492132.1069
L	149+10.00	80.00	491600.5814	1492032.8704
L	149+12.00	91.00	491592.9109	1492024.7363
L	149+22.00	80.00	491590.5191	1492039.4087
L	149+22.00	89.00	491585.6153	1492031.8620
L	149+79.94	80.00	491541.9353	1492070.9775
L	150+84.00	78.00	491455.7673	1492129.3529
L	151+47.00	84.00	491399.6709	1492158.6479
L	151+47.00	77.50	491403.2125	1492164.0983
L	151+58.00	84.00	491390.4471	1492164.6413
L	151+58.00	77.50	491393.9887	1492170.0917
L	153+01.00	-43.13	491339.8033	1492349.1548
L	153+01.00	-65.00	491351.7216	1492367.4968

I, Thedore C. Benbow, PLS, 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) (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 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 15th day of August, 2022.

DocuSigned by:
Clint Benbow
9831C13D55AA49E...

Professional Land Surveyor — PLS # L-5368 — Seal

NORTH CAROLINA PROFESSIONAL SEAL L-5368 LAND SURVEYOR THEODORE C. BENBOW

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.

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6/2/99

REVISIONS

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	RW03E-3
Location and Surveys	

WSP USA Inc.
128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

ROW MARKER PERMANENT EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
L	153+06.00	-65.00	491347.5290	1492370.2211
L	153+06.00	-85.00	491358.4261	1492386.9916
L	153+10.00	76.00	491267.3497	1492254.1681
L	153+17.00	-85.00	491349.2023	1492392.9851
L	153+17.00	-65.00	491338.3052	1492376.2145
L	153+22.00	-46.17	491323.8515	1492363.1473
L	153+22.00	-65.00	491334.1125	1492378.9388
L	154+03.00	-81.00	491274.9095	1492436.4888
L	154+12.00	-88.00	491271.1768	1492447.2623
L	154+12.00	-98.00	491276.6254	1492455.6475
L	154+19.00	-103.00	491273.4800	1492463.6542
L	154+19.00	-114.00	491279.4734	1492472.8780
L	154+37.00	82.00	491157.5876	1492318.3340
L	154+37.00	91.00	491152.6838	1492310.7873
L	154+50.00	91.00	491141.7830	1492317.8704
L	154+50.00	82.00	491146.6867	1492325.4172
L	156+10.00	90.00	491008.3579	1492405.7113
L	156+10.00	62.47	491023.2926	1492428.8406
L	156+10.00	95.00	491005.6456	1492401.5108
L	156+37.00	90.50	490985.5900	1492419.7744
L	156+37.00	62.40	491000.7710	1492443.4252
L	156+37.00	95.00	490983.1592	1492415.9875
L	158+96.81	97.50	490763.5171	1492550.0302
L	159+00.00	-70.04	490847.5751	1492694.9890
L	159+00.00	-80.00	490852.7347	1492703.5122
L	159+21.00	-99.00	490844.4199	1492730.7297
L	161+11.00	-114.00	490686.6289	1492841.1783
L	163+65.44	93.00	490363.2651	1492785.0449
L	163+87.00	-96.00	490434.3773	1492961.4788
L	163+87.00	-46.25	490410.7160	1492917.7157
L	163+87.00	-100.00	490436.2797	1492964.9974
L	164+41.00	-100.00	490388.2332	1492990.8071
L	164+41.00	-94.00	490385.4081	1492985.5138
L	165+25.00	-91.00	490309.0484	1493022.4636
L	165+25.00	-103.00	490314.6094	1493033.0973
L	165+37.00	83.00	490217.8648	1492873.7838
L	165+38.00	-100.00	490301.5802	1493036.5160
L	165+38.00	-91.00	490297.4198	1493028.5353
L	165+64.00	83.00	490193.6474	1492886.4558

ROW MARKER PERMANENT EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
L	165+64.00	59.03	490204.8159	1492907.6668
L	166+25.00	45.91	490156.6340	1492948.2880
L	166+25.00	82.00	490139.4307	1492916.5608
L	166+52.00	82.00	490115.3416	1492929.7068
L	166+52.00	45.02	490133.1429	1492962.1181
L	167+38.00	79.00	490040.5813	1492975.0475
L	167+38.00	67.15	490046.4660	1492985.3384
L	167+47.00	-62.39	490103.0567	1493102.2053
L	167+47.00	-79.00	490111.3281	1493116.6097
L	170+75.00	80.00	489748.8085	1493154.0292
L	170+75.00	47.50	489766.8052	1493181.0915
L	171+54.00	47.50	489700.7496	1493225.7757
L	171+54.00	78.00	489683.4613	1493200.6488
L	171+99.00	75.00	489647.6502	1493229.1793
L	171+99.00	79.00	489645.3533	1493225.9045
L	172+04.00	79.00	489641.1966	1493228.8231
L	172+04.00	99.00	489629.6957	1493212.4606
L	172+15.00	79.00	489632.0621	1493235.2585
L	172+15.00	99.00	489620.5253	1493218.9214
L	172+18.00	74.00	489632.4600	1493241.0997
L	172+18.00	79.00	489629.5733	1493237.0171
L	173+07.00	47.50	489574.8649	1493315.2578
L	173+07.00	70.00	489561.5500	1493297.1205
L	174+00.00	-77.00	489575.2356	1493470.4890
L	174+22.46	47.50	489481.6804	1493385.3362
L	174+22.50	83.00	489460.0171	1493357.2123
L	174+27.00	83.00	489456.3942	1493360.0055
L	174+27.00	103.00	489444.1753	1493344.1721
L	174+38.00	83.00	489447.5488	1493366.8472
L	174+38.00	103.00	489435.2951	1493351.0407
L	174+43.00	83.00	489443.5331	1493369.9635
L	174+43.00	47.50	489465.3115	1493397.9984
L	175+68.55	-81.79	489448.0582	1493577.0770
L	176+75.00	-81.26	489367.3795	1493643.8261
L	177+70.00	-78.00	489292.4558	1493703.6376
L	178+11.50	-81.00	489261.4945	1493733.0504
L	178+11.50	-90.00	489267.1714	1493740.0342
L	178+23.00	-91.00	489258.5934	1493748.2663
L	178+23.00	-81.00	489252.3156	1493740.4824
L	178+55.00	168.73	489071.9326	1493564.9293
L	178+55.00	174.00	489068.6673	1493560.7911
L	178+66.00	172.00	489061.7540	1493568.7695

I, Thedore C. Benbow, PLS, 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) (R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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Witness my original signature, registration number and seal this 15th day of August, 2022.

DocuSigned by:
Clint Benbow
9831C13D55AA49E...

Professional Land Surveyor — PLS # L-5368 — Seal

NORTH CAROLINA PROFESSIONAL SEAL L-5368 LAND SURVEYOR THEODORE C. BENBOW

NOTES:

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10-AUG-2022 14:35
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6/2/99

REVISIONS

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	RW03E-4

Location and Surveys

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128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

ROW MARKER PERMANENT EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
L	178+70.00	192.00	489046.4736	1493555.3297
L	178+77.00	171.00	489054.1921	1493575.9373
L	178+81.00	190.00	489039.5727	1493563.2329
L	178+87.00	162.95	489051.6568	1493588.0856
L	178+87.00	168.00	489048.5700	1493584.0866
L	180+18.00	-101.00	489103.9743	1493877.4023
L	180+18.00	-91.00	489098.2154	1493869.2271
L	180+29.00	-92.00	489089.5108	1493876.5567
L	180+29.00	-102.00	489095.2397	1493884.7530
L	181+61.00	-96.78	488981.6287	1493955.3226
L	183+19.00	85.00	488748.5615	1493894.8681
L	183+19.00	63.29	488760.9946	1493912.6704
L	183+27.00	86.00	488741.3755	1493898.6709
L	183+27.00	98.00	488734.4967	1493888.8382
L	183+38.00	98.00	488725.3986	1493895.2106
L	183+38.00	88.00	488731.1400	1493903.3982
L	183+52.00	62.73	488734.1202	1493932.1856
L	183+52.00	90.00	488718.4316	1493909.8791
L	183+59.00	-106.00	488825.5237	1494074.1843
L	183+59.00	-117.00	488831.8581	1494083.1773
L	183+72.00	-115.00	488820.2053	1494088.9491
L	183+72.00	-106.00	488815.0130	1494081.5979
L	183+76.00	72.00	488709.0312	1493938.5322
L	183+76.00	62.30	488714.6291	1493946.4510
L	184+21.00	-112.00	488778.9682	1494114.5480
L	184+21.00	-106.00	488775.4827	1494109.6642
L	184+60.00	72.00	488640.1513	1493987.6595
L	184+60.00	60.67	488646.7706	1493996.8582
L	184+68.00	-112.00	488741.2039	1494141.6339
L	184+68.00	-108.00	488738.8650	1494138.3890
L	185+30.00	59.14	488590.6551	1494039.4288
L	185+30.00	75.00	488581.2991	1494026.6170
L	185+39.00	58.93	488583.4691	1494044.9392
L	185+39.00	75.00	488573.9787	1494031.9679
L	185+62.00	-108.55	488664.0130	1494193.5535
L	187+80.00	-118.38	488497.6806	1494330.9582
L	187+99.00	-108.00	488476.4661	1494334.2061
L	187+99.00	-119.00	488483.1900	1494342.9119
L	188+33.00	80.00	488334.4610	1494206.4125
L	189+58.00	53.25	488252.3155	1494304.9063

ROW MARKER PERMANENT EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
L	189+58.00	81.00	488235.1500	1494283.1023
L	193+79.00	-94.00	488012.6096	1494681.0242
L	193+79.00	-103.00	488018.1768	1494688.0957
L	193+90.97	53.27	487912.1096	1494572.7156
L	193+90.98	69.39	487902.1291	1494560.0574
L	193+91.00	-104.00	488009.3667	1494696.3043
L	194+12.00	-54.50	487962.2470	1494670.4009
L	194+12.00	-82.00	487979.2578	1494692.0084

ROW MARKER PERMANENT EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
Y1	10+66.00	-32.25	491363.3631	1492631.6194
Y1	10+66.00	-49.00	491358.6392	1492647.6915
Y1	11+28.00	-62.73	491287.2563	1492634.7236
Y1	12+17.00	52.00	491273.3132	1492490.1785
Y1	12+17.00	28.09	491258.0418	1492508.5738
Y1	12+29.81	-98.55	491164.8553	1492595.4502

ROW MARKER PERMANENT EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
Y1A	12+95.00	27.00	491055.0099	1492735.6846
Y1A	12+95.00	44.00	491045.8552	1492721.3600
Y1A	13+22.00	44.00	491023.1045	1492735.8998
Y1A	13+22.00	27.00	491032.2592	1492750.2243
Y1A	13+47.00	27.00	491011.1937	1492763.6871
Y1A	13+47.00	46.00	491000.9620	1492747.6774
Y1A	13+75.00	27.00	490987.6004	1492778.7654
Y1A	13+75.00	46.00	490977.3687	1492762.7557
Y1A	14+12.00	27.00	490956.4235	1492798.6903
Y1A	14+12.00	31.00	490954.2695	1492795.3198
Y1A	14+29.00	40.00	490935.0983	1492796.8910
Y1A	14+29.00	31.00	490939.9449	1492804.4745
Y1A	14+53.00	44.00	490912.7215	1492806.4447
Y1A	14+80.19	44.00	490889.8107	1492821.0868
Y1A	14+88.82	37.70	490885.9254	1492831.0410
Y1A	14+97.28	54.67	490869.6660	1492821.3034
Y1A	15+03.40	55.78	490863.9079	1492823.6618

I, Thedore C. Benbow, PLS, 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) (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 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 15th day of August, 2022.

DocuSigned by:
Clint Benbow
9831C13D55AA49E...

Professional Land Surveyor

L-5368
PLS #

Seal

NORTH CAROLINA PROFESSIONAL SEAL L-5368 LAND SURVEYOR THEODORE C. BENBOW

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.

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REVISIONS

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	RW03E-5
Location and Surveys	

WSP USA Inc.
128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

ROW MARKER PERMANENT EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
Y2	11+55.00	-65.00	490859.4324	1492796.3179
Y2	11+55.00	-48.87	490844.5027	1492802.4329
Y2	12+43.00	62.00	490775.2622	1492925.8879
Y2	15+55.00	-50.00	490997.1607	1493172.1582
Y2	15+55.00	-30.00	490978.6529	1493179.7387
Y2	15+62.00	58.00	490899.8720	1493219.5704
Y2	15+62.00	68.00	490890.6181	1493223.3606
Y2	15+75.00	30.00	490930.7101	1493220.9878
Y2	15+75.00	68.00	490895.5454	1493235.3906
Y2	15+78.00	-53.00	491008.6544	1493192.3051
Y2	15+78.00	-30.00	490987.3705	1493201.0226
Y2	16+02.00	68.00	490905.7790	1493260.3761
Y2	16+02.00	41.00	490930.7645	1493250.1425
Y2	16+19.00	30.00	490947.3871	1493261.7048
Y2	16+68.00	-49.00	491039.0649	1493277.1060
Y2	16+73.00	-30.00	491023.3776	1493288.9344
Y2	16+78.00	-52.00	491045.6313	1493285.2228
Y2	16+85.00	-30.00	491027.9259	1493300.0390

ROW MARKER PERMANENT EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
Y2A	11+90.00	85.00	490656.8074	1492454.1763
Y2A	11+95.00	92.00	490652.2493	1492444.8757
Y2A	11+98.00	41.75	490631.0729	1492490.6372
Y2A	12+02.00	69.00	490634.8406	1492463.1275
Y2A	12+04.00	81.00	490635.7696	1492450.8178
Y2A	12+04.00	93.00	490639.3899	1492439.3769
Y2A	12+80.00	36.75	490539.8813	1492479.8488
Y2A	13+48.00	-40.75	490463.8779	1492549.5176
Y2A	13+75.00	-54.00	490435.6003	1492559.7615
Y2A	14+68.00	-74.00	490340.9798	1492569.5583
Y2A	14+70.00	-61.50	490340.3472	1492556.9151
Y2A	14+87.00	-74.00	490322.0919	1492567.4979
Y2A	14+87.00	-63.00	490323.2848	1492556.5627
Y2A	14+97.00	-62.11	490313.4401	1492554.5950
Y2A	15+05.00	34.88	490316.0051	1492457.3106
Y2A	15+16.00	54.00	490307.1437	1492437.1079
Y2A	15+24.00	50.00	490298.7571	1492440.2167
Y2A	15+34.00	69.00	490290.8765	1492420.2443
Y2A	15+34.00	45.00	490288.2739	1492444.1028
Y2A	15+43.00	41.00	490278.8932	1492447.1032
Y2A	15+43.00	33.45	490278.0749	1492454.6046
Y2A	15+44.00	64.00	490280.3933	1492424.1304
Y2A	16+55.00	30.00	490166.3608	1492445.8927
Y2A	16+60.00	-55.00	490152.1726	1492529.8492
Y2A	16+61.00	68.00	490164.5170	1492407.4661
Y2A	16+73.00	71.00	490152.9131	1492403.1825
Y2A	16+84.00	67.00	490141.5442	1492405.9660
Y2A	16+90.00	30.00	490131.5672	1492442.0971
Y2A	16+93.00	-30.00	490122.0783	1492501.4180
Y2A	16+93.00	-40.00	490120.9938	1492511.3590

I, Thedore C. Benbow, PLS, 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) (R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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Witness my original signature, registration number and seal this 15th day of August, 2022.

DocuSigned by:
Clint Benbow
9831C13D55AA49E...

Professional Land Surveyor

L-5368
PLS #

Seal

NORTH CAROLINA PROFESSIONAL SEAL L-5368 LAND SURVEYOR THEODORE C. BENBOW

NOTES:

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REVISIONS

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	RW03E-6
Location and Surveys	

WSP USA Inc.
128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

ROW MARKER PERMANENT EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
Y2B	11+05.68	-43.07	490284.7829	1492591.9785
Y2B	11+96.00	69.00	490181.4846	1492694.1154
Y2B	11+96.00	81.00	490169.7134	1492696.4473
Y2B	12+05.00	81.00	490171.9418	1492707.0666
Y2B	12+05.00	69.00	490183.6575	1492704.4699
Y2B	13+37.00	79.00	490231.6826	1492851.1207

ROW MARKER PERMANENT EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
Y3	12+22.65	89.47	489252.7061	1493519.4457
Y3	12+40.00	76.00	489251.3490	1493499.9895
Y3	14+55.00	35.00	489359.3890	1493305.6753
Y3	14+55.00	51.00	489372.4102	1493314.9731

ROW MARKER PERMANENT EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
Y24	11+06.04	43.76	492713.3021	1491267.1651
Y24	11+47.32	31.65	492671.6892	1491249.7843
Y24	11+66.00	-28.85	492620.6289	1491287.2327
Y24	11+66.00	-41.00	492613.4818	1491297.0575
Y24	11+79.00	-43.00	492602.1908	1491291.4154
Y24	11+79.00	-29.43	492610.0350	1491280.3373

ROW MARKER PERMANENT EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
Y25	21+75.00	50.00	493247.4123	1491406.0452
Y25	22+69.00	-54.00	493109.0363	1491383.5930
Y25	22+69.00	-50.00	493112.3951	1491381.4207
Y25	22+72.00	65.00	493207.3304	1491316.4492
Y25	23+03.00	-50.00	493093.9309	1491352.8712
Y25	23+03.00	-54.00	493090.5722	1491355.0435
Y25	23+08.00	65.00	493187.7801	1491286.2204

ROW MARKER PERMANENT EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
Y26	11+18.00	-30.00	492165.9901	1491619.4874
Y26	11+38.00	35.00	492209.4861	1491567.1863
Y26	11+47.00	30.00	492199.8714	1491562.1363
Y26	11+48.00	53.00	492217.9608	1491547.8898
Y26	11+57.00	48.00	492208.0284	1491542.7650

ROW MARKER PERMANENT EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
Y27	11+05.00	-25.58	491856.8768	1491841.5992
Y27	11+05.00	-42.00	491844.5272	1491852.4193
Y27	11+77.00	-20.19	491812.7610	1491786.0728
Y27	11+77.00	-92.00	491761.4757	1491836.3310
Y27	12+10.00	-22.24	491788.3096	1491764.6317
Y27	12+10.00	-92.00	491739.7478	1491814.7192

ROW MARKER PERMANENT EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
Y29	11+09.00	-59.00	491445.8263	1492118.2784
Y29	11+09.00	-63.00	491443.0672	1492121.1745
Y29	11+20.00	-68.00	491431.9962	1492117.5872
Y29	11+25.00	-57.00	491436.0141	1492106.2836
Y29	12+66.00	-40.00	491343.0818	1492000.8067
Y29	12+69.00	-49.50	491334.5429	1492005.9386
Y29	12+83.00	-30.00	491336.9653	1491982.0560
Y29	12+88.00	-49.50	491320.3057	1491993.3567

ROW MARKER PERMANENT EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
Y33	13+33.00	32.69	489066.2562	1493893.7959

ROW MARKER PERMANENT EASEMENT

ALIGN	STATION	OFFSET	NORTH	EAST
Y35	11+34.98	-30.00	488334.8599	1494134.3244

I, Thedore C. Benbow, PLS, 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) (R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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Witness my original signature, registration number and seal this 15th day of August, 2022.

DocuSigned by:
Clint Benbow
9831C13D55AA49E...

Professional Land Surveyor — PLS # L-5368 — Seal

NORTH CAROLINA PROFESSIONAL SEAL L-5368 LAND SURVEYOR THEODORE C. BENBOW

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.

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6/2/99

REVISIONS

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	RW03E-7
Location and Surveys	

WSP USA Inc.
128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
L	101+00.00	-83.22	495722.4898	1489547.0928
L	102+64.00	-135.00	495615.7938	1489684.1412
L	103+04.00	-135.00	495582.2521	1489706.9105
L	104+00.00	-95.00	495479.3018	1489727.6547
L	104+85.00	-51.50	495383.8487	1489738.2425
L	105+00.00	91.27	495293.5835	1489626.6203
L	105+21.00	124.00	495258.2704	1489610.4770
L	105+37.00	-52.66	495340.7102	1489767.5427
L	105+85.00	-47.50	495297.5921	1489789.2564
L	106+27.00	122.00	495170.3248	1489669.6850
L	107+90.00	75.13	495058.8585	1489797.5188
L	111+34.50	-47.50	494836.0569	1490087.4816
L	112+43.85	52.50	494690.1726	1490061.6771
L	117+10.14	-47.50	494336.9105	1490381.6545
L	117+10.14	52.50	494289.7212	1490293.4889
L	119+66.80	-47.50	494114.4173	1490506.0405
L	126+12.88	-47.50	493575.8419	1490854.4886
L	126+44.00	52.50	493492.2357	1490791.4083
L	126+53.86	-47.50	493542.7915	1490878.2499
L	126+70.00	75.00	493457.9179	1490788.4550
L	127+10.00	110.00	493404.9948	1490783.5415
L	127+70.00	110.00	493356.3810	1490818.7083
L	129+36.00	68.04	493246.4769	1490950.0012
L	129+50.00	64.50	493237.2079	1490961.0741
L	130+65.00	-47.50	493209.6762	1491119.2227
L	131+13.48	64.50	493104.8006	1491056.8488
L	131+45.10	100.90	493058.0470	1491045.6505
L	131+55.00	-59.00	493143.2111	1491181.3473
L	131+70.45	350.96	492892.2182	1490856.8451
L	132+89.88	-83.50	493046.6405	1491279.7505
L	133+05.74	114.64	492920.1703	1491126.4064
L	133+25.00	-64.00	493006.5022	1491283.9738
L	133+65.00	-59.50	492970.8915	1491303.1736
L	134+17.00	52.50	492864.5890	1491240.3301
L	134+87.00	52.50	492806.9498	1491279.5120

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
L	135+61.61	78.99	492730.5783	1491298.8578
L	136+10.00	-63.70	492769.1792	1491444.4906
L	136+50.00	59.50	492668.0208	1491363.5848
L	136+69.00	54.46	492654.9627	1491378.1617
L	137+10.00	-53.50	492679.5533	1491490.9831
L	138+50.00	-53.50	492562.1594	1491567.2634
L	139+00.00	-93.00	492541.7550	1491627.6282
L	140+76.00	-146.00	492423.0516	1491767.9653
L	141+00.00	55.17	492293.3178	1491612.3555
L	141+15.00	-146.00	492390.3490	1491789.2148
L	141+51.92	80.00	492236.2546	1491619.8224
L	142+00.00	-100.00	492294.0129	1491796.9542
L	142+11.85	83.00	492184.3654	1491649.9613
L	142+36.04	-49.00	492236.0039	1491773.8263
L	142+56.00	55.41	492162.3758	1491697.1508
L	143+10.81	55.50	492116.3687	1491726.9440
L	143+36.04	-51.00	492153.2393	1491829.9903
L	143+36.16	56.00	492094.8387	1491740.3332
L	144+85.00	56.00	491970.0323	1491821.4300
L	145+31.09	83.00	491916.6723	1491823.9030
L	146+38.00	56.00	491841.7357	1491904.7907
L	148+26.00	-51.00	491742.3942	1492096.9494
L	149+41.00	56.47	491587.4052	1492069.4880
L	149+41.00	56.47	491587.4052	1492069.4880
L	150+09.00	-47.00	491586.7642	1492193.3045
L	150+53.97	81.58	491479.0015	1492109.9917
L	150+66.10	56.67	491482.3971	1492137.4909
L	152+88.05	-41.25	491349.6414	1492340.5250
L	154+09.49	-58.84	491257.3970	1492421.4397
L	156+76.45	-53.25	491029.8196	1492562.1068
L	158+03.97	60.34	490861.4696	1492533.6339
L	158+08.03	-53.25	490917.7582	1492632.3832
L	158+50.24	-60.23	490885.2578	1492660.5695
L	160+68.06	53.25	490640.0021	1492674.8860
L	161+20.75	-64.00	490653.1422	1492802.7673
L	162+24.75	-46.25	490553.4672	1492839.0316
L	162+74.68	53.25	490461.3718	1492776.5027
L	163+27.97	58.42	490412.4732	1492797.5827
L	164+57.50	-46.25	490348.2949	1492951.1808
L	165+55.62	-48.63	490262.3209	1492999.0691
L	166+30.72	44.72	490152.1302	1492952.0851
L	167+10.09	46.31	490081.2997	1492989.5126
L	167+55.00	80.00	490025.1058	1492982.7788

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Clint Benbow
3831C1D55AA44E...

Professional Land Surveyor

L-5368
PLS #

Seal

NORTH CAROLINA PROFESSIONAL SEAL L-5368 LAND SURVEYOR THEODORE C. BENBOW

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.

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RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	RW03E-8
Location and Surveys	

WSP USA Inc.
128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
L	167+97.00	125.00	489965.4272	1492965.4446
L	168+68.00	125.00	489902.9465	1493002.7578
L	170+35.00	80.00	489782.7385	1493131.6606
L	170+53.00	47.50	489785.3253	1493168.8341
L	173+18.15	-60.30	489629.7891	1493408.6836
L	174+45.81	-51.00	489523.5421	1493477.4870
L	174+63.35	47.50	489449.1104	1493410.6369
L	175+25.72	-48.76	489460.0956	1493524.7953
L	175+63.24	59.50	489362.7739	1493464.3100
L	176+82.00	59.50	489270.5803	1493541.3946
L	177+14.71	-48.50	489316.3043	1493644.5706
L	179+93.50	-48.50	489094.0342	1493820.0618
L	181+58.00	-78.50	488973.8685	1493938.5093
L	182+50.00	-52.50	488883.6991	1493968.4908
L	184+68.00	-52.50	488706.4122	1494093.3660
L	185+00.00	-85.00	488699.7073	1494138.3244
L	186+82.75	-153.00	488594.9736	1494300.3769
L	187+40.00	-153.00	488550.0573	1494334.4438
L	187+94.88	54.50	488380.4182	1494203.0652
L	188+34.00	-71.00	488426.3834	1494326.2135
L	188+40.00	53.38	488345.2511	1494231.7476
L	188+91.75	-54.50	488371.0210	1494348.5879

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
Y1	10+83.36	26.00	491364.4154	1492570.8233
Y1	11+04.06	-38.85	491321.8370	1492624.0531
Y1	11+81.50	26.00	491283.0749	1492530.0234
Y1	12+10.16	-84.50	491192.6357	1492600.5120
Y1	12+39.93	31.68	491244.6235	1492491.9276

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
Y1A	10+79.08	-27.00	491259.8967	1492643.1659
Y1A	11+31.11	27.00	491185.0600	1492645.1536
Y1A	12+01.94	-27.00	491162.5038	1492731.0720
Y1A	12+01.94	27.00	491133.4242	1492685.5706
Y1A	14+80.19	27.00	490898.9653	1492835.4114
Y1A	15+11.58	-27.00	490901.5948	1492897.8168

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
Y2	10+61.98	-78.12	490836.3212	1492705.2683
Y2	10+90.75	-59.42	490829.9168	1492738.9774
Y2	11+23.91	57.84	490733.9718	1492814.1107
Y2	11+72.59	-47.88	490850.2562	1492819.0864
Y2	12+49.85	36.84	490801.1423	1492922.6867
Y2	12+91.16	36.85	490816.7882	1492960.9266
Y2	13+10.00	-36.45	490891.7611	1492950.5741
Y2	14+86.02	30.00	490896.9836	1493138.6442
Y2	14+89.96	-30.00	490954.0030	1493119.5555

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
Y2A	10+88.00	79.50	490769.7132	1492552.8497
Y2A	11+04.75	-46.75	490657.5192	1492613.3373
Y2A	11+82.86	41.75	490648.6953	1492497.7804
Y2A	11+88.97	-43.72	490608.8799	1492573.6407
Y2A	12+30.00	41.75	490592.1691	1492480.7652
Y2A	12+55.20	-44.24	490555.7529	1492563.0523
Y2A	12+61.00	36.75	490558.7692	1492481.9093
Y2A	14+55.00	36.75	490365.9133	1492460.8712
Y2A	14+55.00	-36.76	490357.9418	1492533.9461
Y2A	16+06.00	-56.00	490205.7457	1492536.6992
Y2A	16+35.22	30.00	490186.0192	1492448.0371
Y2A	16+74.00	-30.00	490140.9662	1492503.4784

I, Thedore C. Benbow, PLS, 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) (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 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 15th day of August, 2022.

DocuSigned by:
Clint Benbow
9831C13D55AA49E...

Professional Land Surveyor — PLS # L-5368 — Seal

NORTH CAROLINA PROFESSIONAL SEAL L-5368 LAND SURVEYOR THEODORE C. BENBOW

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.

6/2/99

REVISIONS

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AT 7FMF5M3

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6/2/99

REVISIONS

RIGHT OF WAY CONTROL SHEET

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	RW03E-9

Location and Surveys

WSP USA Inc.
128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
Y2B	10+80.53	-38.96	490282.0925	1492569.1404
Y2B	11+56.05	27.50	490215.9902	1492643.7171
Y2B	12+00.34	-27.96	490277.4013	1492679.2363
Y2B	12+47.85	-27.50	490288.6086	1492722.1116
Y2B	12+72.35	27.50	490245.6516	1492764.3021
Y2B	13+22.00	-44.50	490331.5254	1492776.9578
Y2B	13+58.00	49.50	490267.7233	1492854.6310

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
Y24	11+20.00	-25.53	492658.3723	1491311.8268

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
Y25	23+75.00	50.00	493138.7994	1491238.1070

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
Y27	10+84.00	-28.39	491868.1745	1491859.0053

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
Y28	11+91.00	-35.00	491701.5699	1492224.0751
Y28	11+91.00	-30.00	491705.7048	1492221.2638
Y28	12+47.00	30.00	491723.8372	1492141.2188
Y28	12+51.37	-35.00	491667.6282	1492174.1525

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
Y29	10+84.00	30.00	491525.4694	1492071.5146

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
Y3	12+36.08	35.00	489217.6164	1493476.3569

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
Y30	13+04.00	-25.00	489595.3860	1493467.7612
Y30	13+12.43	25.00	489630.5765	1493431.2725

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
Y31	14+80.21	30.00	489434.9912	1493633.8306
Y31	14+81.16	-30.00	489375.8016	1493643.7034

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
Y33	12+30.00	-29.68	489000.6765	1493996.5918
Y33	13+57.90	36.30	489067.6971	1493866.8171

ROW MARKER IRON PIN AND CAP

ALIGN	STATION	OFFSET	NORTH	EAST
Y4	13+51.72	-72.09	492790.6543	1490924.6152

I, Thedore C. Benbow, PLS, 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) (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 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 15th day of August, 2022.

DocuSigned by:
Clint Benbow
9B31C13D55AA49E...

Professional Land Surveyor — PLS # L-5368 — Seal

NORTH CAROLINA PROFESSIONAL SEAL L-5368 LAND SURVEYOR THEODORE C. BENBOW

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.

10-AUG-2022 14:43
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PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	RW04

Location and Surveys

WSP USA Inc.
128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

I, Thedore C. Benbow, PLS, 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) (R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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Clint Benbow
9831C13D55AA49E...

Professional Land Surveyor

L-5368
PLS #

Seal

NORTH CAROLINA PROFESSIONAL SEAL L-5368 LAND SURVEYOR THEODORE C. BENBOW

NC GRID NAD 83 NA 2011

NOTES:

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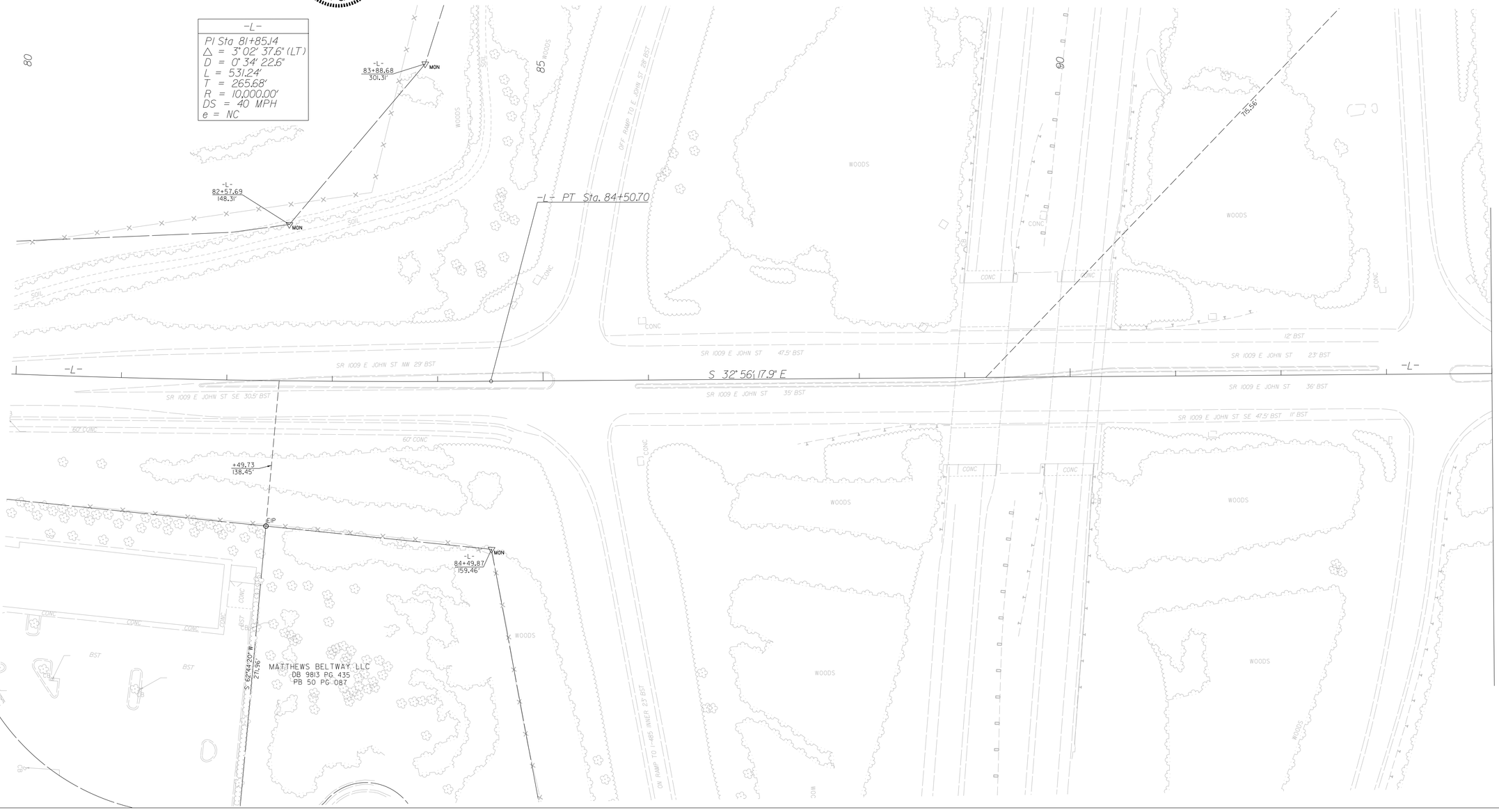
2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.



REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	RW05

Location and Surveys

WSP USA Inc.
128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

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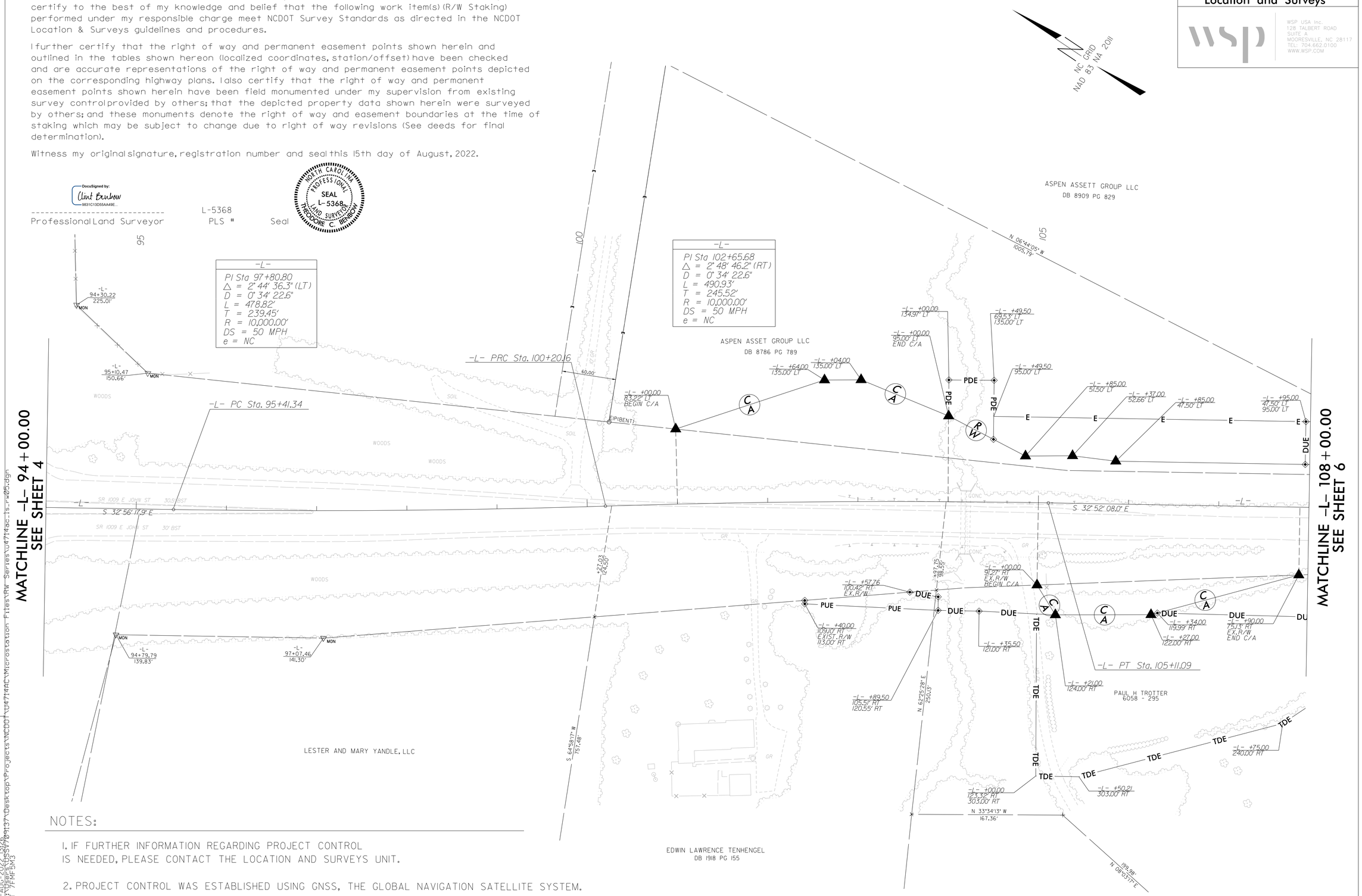
Clint Benbow
9831C13D55AA49E...

Professional Land Surveyor

L-5368
PLS #

Seal

NORTH CAROLINA PROFESSIONAL SEAL L-5368 LAND SURVEYOR THEODORE C. BENBOW



NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

REVISIONS

6/2/99

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PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	RW06

Location and Surveys

WSP USA Inc.
128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

I, Thedore C. Benbow, PLS, 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) (R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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Witness my original signature, registration number and seal this 16th day of August, 2022.

DocuSigned by:
Clint Benbow
9831C13D55AA49E...

Professional Land Surveyor — L-5368 PLS # — Seal

NORTH CAROLINA PROFESSIONAL LAND SURVEYOR SEAL L-5368 THEODORE C. BENBOW

-L-
PI Sta 114+22.48
△ = 4° 42' 42.0" (RT)
D = 0° 49' 06.6"
L = 575.64'
T = 287.98'
R = 7,000.00'
DS = 50 MPH
e = SEE PLAN

-L-
PI Sta 121+82.72
△ = 7° 43' 28.0" (LT)
D = 0° 49' 06.6"
L = 943.72'
T = 472.58'
R = 7,000.00'
DS = 50 MPH
e = SEE PLAN

NC GRID NAD 83 NA 2011

MATCHLINE -L- 108+00.00
SEE SHEET 5

MATCHLINE -L- 122+00.00
SEE SHEET 7

ASPEN ASSETT GROUP LLC
DB 8909 PG 829

DUKE POWER CO
4147 - 921

-L- PC Sta. 111+34.50

-L- PRC Sta. 117+10.14

EXISTING R/W

-L-

S 32° 52' 08.0" E

SR 1009 E JOHN ST 25' BST

J & M INVESTMENTS LLC
DB 19082 PG 796

FOUR MORE INVESTMENTS LLC
DB 19420 PG 508
TRACT A

CHARLESTON VENTURE LLC
DB 10765 PG 668

JEFFREY WAYNE SPARKS
AND RICHARD ALAN SPARKS
DB 33348 PG 935

DUKE POWER CO
4147 - 915

-L- +32.00 47.50' LT 95.00' LT
-L- +68.65 95.00' LT
-L- +89.00 137.00' LT
-L- +24.00 47.50' LT 116.00' LT
-L- +86.00 116.00' LT
-L- +34.50 47.50' LT
-L- +70.00 47.50' LT 80.00' LT
-L- +05.00 47.50' LT 79.00' LT
-L- +00.00 80.00' LT
-L- +27.00 80.00' LT
-L- +28.30 56.00' LT
-L- +10.14 47.50' LT
-L- +37.00 56.00' LT
-L- +66.80 47.50' LT EX.R/W
-L- +40.50 50.49' LT EX.R/W 82.00' LT
-L- +76.00 51.66' LT EX.R/W 82.00' LT
-L- +48.82 71.76'
-L- +43.85 52.50' RT EX.R/W
-L- +40.00 123.00' RT
-L- +05.00 122.29' RT 150.00' RT
-L- +10.14 52.50' RT
-L- +97.00 109.50' RT 120.00' RT
-L- +07.00 109.50' RT 120.00' RT
-L- +81.00 106.00' RT

+56.36 83.00'
+68.82 49.43'
+53.88 56.00'
60.00'
S 61°19'39" W 83.34'
S 06°29'48" E 141.35'
S 76°51'48" E 137.36'
S 76°51'48" E 162.05'
S 06°33'18" E 276.23'
N 38°34'17" E 306.98'
S 55° 18' 55" W 386.70'
N 38°55'12" E 35.45'
S 34°21'12" W 502.12'
N 49°46'00" E 532.57'
S 61°45'54" W 455.31'

DUE TDE PUE R/W E CONC SWK

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.

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PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	RW07

Location and Surveys

WSP USA Inc.
128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

I, Thedore C. Benbow, PLS, 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) (R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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Clint Benbow
9831C13D55AA49E...

Professional Land Surveyor — L-5368 PLS # — Seal

NORTH CAROLINA PROFESSIONAL SEAL L-5368 LAND SURVEYOR THEODORE C. BENBOW

REVISIONS

6/2/99

-L-
PI Sta 134+01.52
Δ = 2° 51' 59.9" (RT)
D = 0° 28' 38.9"
L = 600.39'
T = 300.26'
R = 12,000.00'
DS = 50 MPH
e = NC

NC GRID
NAD 83 NA 2011

MATCHLINE -L- 122+00.00
SEE SHEET 6

MATCHLINE -L- 136+00.00
SEE SHEET 8

-L- PT Sta. 126+53.86
-L- PC Sta. 131+01.26
POT Sta. 24+75.58
-Y24- PC Sta. 10+95.01

S 35° 52' 54.0" E
S 58°56'13" E
S 58°53'29" E
N 57° 06' 27.0" E
N 25°35'07" E
S 42° 6' 02.0" W

DUKE POWER CO
4147 - 921

CYNTHIA SEWELL GARDNER
DB 2165 PG 534

2217 EAST JOHN ST LLC
DB 19636 PG 619

DUKE POWER CO
4147 - 915

INDIAN TRAIL PLAZA
DB 26739 PG 894

TROTTER PROPERTIES LLC
DB 19840 PG 566

HAWTHORNE'S HOLDING GROUP LLC
DB 31915 PG 417

MARCELLA MCINTYRE WITHROW
DB 36014 PG 303
MB 14 PG 217
LOT 1

MARCELLA MCINTYRE WITHROW
DB 36014 PG 422
MB 14 PG 217
LOT 2

MARCELLA MCINTYRE WITHROW
DB 36014 PG 422
MB 14 PG 217
LOT 3

MARCELLA MCINTYRE WITHROW
DB 36014 PG 294

MARCELLA MCINTYRE WITHROW
DB 36014 PG 297

SR 1009 E. JOHN ST. 24' BST

EXISTING R/W

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.

10-AUG-2022 15:16
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USS1/01107 AT 1" = 50'

DocuSign Envelope ID: A327E696-7CF5-472B-8816-B9B696A6EBC5

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	RW08

Location and Surveys

WSP USA Inc.
128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

I, Thedore C. Benbow, PLS, 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) (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 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 15th day of August, 2022.

DocuSigned by: Clint Benbow 9831C13D55AA49E...

L-5368 — Professional Land Surveyor — PLS # — Seal

NORTH CAROLINA PROFESSIONAL SEAL L-5368 LAND SURVEYOR THEODORE C. BENBOW

-Y28-
PI Sta 11+74.58
△ = 2° 24' 41.2" (RT)
D = 9° 27' 00.9"
L = 25.52'
T = 12.76'
R = 606.29'

NC GRID NAD 83 NA 2011

MATCHLINE –L– 136+00.00 SEE SHEET 7

MATCHLINE –L– 150+00.00 SEE SHEET 9

COUCHELL FAMILY PROPERTIES LLC DB 16898 PG 439

BERBICE ENTERPRISE LLC DB 27406 PG 288 TRACT 2

2425 EAST JOHN ST LLC DB 19185 PG 280 PARCEL 1

2425 EAST JOHN ST LLC DB 19185 PG 280 PARCEL 2

2309 EAST JOHN ST LLC DB 19543 PG 628 TRACT 2

ROKTAL PROPERTY DEVELOPMENT LLC DB 28706 PG 193

JERRY MAC PRESSLEY & LYNDA PRESSLEY DB N/F PG N/F

BELTWAY INDUSTRIAL PARK LLC DB 8402 PG 645

AJC LLC DB 5472 PG 276

F & B LLC DB 5398 PG 407

JEFFREY R. CARROLL AND WIFE TERESA A. CARROLL DB 367 PG 326

CRYSTAL BC PROPERTIES, LLC DB 8432 PG 15

EASTWOOD FOREST BAPTIST CHURCH DB N/F PG N/F

WELDON D. POWELL DB 914 PG 033

WELDON D. POWELL DB 935 PG 099

JOSEPH C MARTIN DB 17493 PG 938 MB 14 PG 217 LOT 74

SHIRLEY HAUNG DB 3441 PG 415 MB 14 PG 217 LOT 75

RM MATTHEWS LLC DB 20588 PG 809 MB 14 PG 217 LOT 76

HAROLD JOSEPH TENNANT DB 19822 PG 726 MB 14 PG 217 LOT 73

AMY C MCNABB DB 26721PG 890 MB 14 PG 217 LOT 82

RM MATTHEWS LLC DB 18103 PG 509 MB 14 PG 217 LOT 77

RM MATTHEWS LLC DB 18103 PG 512 MB 14 PG 217 LOT 78

RM MATTHEWS LLC DB 32300 PG 553 MB 14 PG 217 LOT 81

TNW PROPERTIES INC DB 18626 PG 264 MB 14 PG 217 LOT 80

JEFFREY CLEGG PRESSLEY & EDWARD EARL SUGGS DB 35962 PG 639 MB 14 PG 217 LOT 79

RICKY LEE KLUTZ AND WIFE RAYMOUTH JEAN KLUTZ DB 6139 PG 151 MB 14 PG 217 LOT 72

EAST JOHN SYSTEMS, L.L.C. DB 29672 PG 501 MB 14 PG 217 LOT 154

JEFFREY C PRESSLEY DB 4750 PG 90 MB 14 PG 217 LOT 153

JEFFREY C PRESSLEY DB 4750 PG 90 MB 14 PG 217

EAST JOHN SYSTEMS, L.L.C. DB 29672 PG 501 MB 14 PG 217

CAROLINA WATER SERVICE INC OF NC DB 17493 PG 938 MB 14 PG 217 LOT 3

VICTORIA T MCPHATTER DIANNE T GALLOWAY PHYLLIS T BRYOM ALICE T NICHOLS DB 37361PG 864 MB 14 PG 217

-Y24- POT Sta. 13+80.57

-Y24- PC Sta. 11+26.36

-Y24- PT Sta. 11+16.83

-Y24- PT Sta. 12+21.46

-Y26- PT Sta. 12+33.63

-Y26- PC Sta. 12+41.94

-Y26- PT Sta. 13+40.53

-Y26- PC Sta. 11+11.82

-Y27- POT Sta. 13+42.69

-Y27- PT Sta. 12+32.69

-Y27- PC Sta. 10+29.54

-Y28- POT Sta. 10+00.00

-Y28- PC Sta. 11+61.82

-Y28- PT Sta. 11+87.34

-L- PT Sta. 137+01.65

-Y24-	
PI Sta 11+05.92	PI Sta 11+73.95
△ = 3° 59' 55.6" (LT)	△ = 5° 21' 36.9" (LT)
D = 18° 19' 42.5"	D = 5° 38' 12.0"
L = 21.82'	L = 95.10'
T = 10.91'	T = 47.58'
R = 312.61'	R = 1,016.48'

-Y26-	
PI Sta 11+73.09	PI Sta 12+91.24
△ = 15° 17' 46.0" (LT)	△ = 2° 39' 20.6" (LT)
D = 12° 33' 27.3"	D = 2° 41' 38.0"
L = 121.81'	L = 98.58'
T = 61.27'	T = 49.30'
R = 456.26'	R = 2,126.88'

-Y27-
PI Sta 11+31.33
△ = 9° 01' 19.7" (LT)
D = 4° 26' 28.1"
L = 203.15'
T = 101.79'
R = 1,290.12'

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.

10-AUG-2022 15:21
User:tbenbow
USS1706135
C:\Users\tbenbow\Projects\NCDOT\U4714AC\Microstation Files\RW Series\u4714ac_ls_rw08.dgn
41.7FMS13

DocuSign Envelope ID: A327E696-7CF5-472B-8816-B9B696A6EBC5

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	RW09

Location and Surveys

WSP USA Inc.
128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

NOTES:

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2. PROJECT CONTROL WAS ESTABLISHED USING GNSS, THE GLOBAL NAVIGATION SATELLITE SYSTEM.

-Y1-
PI Sta 11+86.81
△ = 46° 39' 31.2" (RT)
D = 15° 26' 37.0"
L = 302.12'
T = 160.00'
R = 371.00'
e = 0.03
RO = 75'

-Y1A-
PI Sta 11+00.17
△ = 29° 23' 01.8" (RT)
D = 15° 26' 37.0"
L = 190.27'
T = 97.27'
R = 371.00'
e = 0.02
RO = 40'

-L-
PI Sta 160+61.83
△ = 5° 30' 09.0" (RT)
D = 0° 34' 22.6"
L = 960.37'
T = 480.55'
R = 10,000.00'
e = NC

-Y2A-
PI Sta 11+57.02
△ = 61° 30' 04.4" (LT)
D = 33° 12' 11.2"
L = 185.23'
T = 104.12'
R = 175.00'
e = 0.04
RO = 96'

-Y29-
PI Sta 11+26.49
△ = 2° 55' 26.5" (LT)
D = 3° 54' 20.3"
L = 74.87'
T = 37.44'
R = 1,467.00'

MATCHLINE -Y2- 14+50.00 SEE SHEET 9A

MATCHLINE -L- 150+00.00 SEE SHEET 8

MATCHLINE -L- 164+00.00 SEE SHEET 10

MATCHLINE -Y2B- 13+00.00 SEE SHEET 9A

MATCHLINE -Y2A- 14+00.00 SEE SHEET 9A

-Y1- POT Sta. 10+00.00

-Y1- PC Sta. 10+26.81

-Y1- PT Sta. 13+28.93

-Y1A- PC Sta. 10+11.67

-Y1A- PT Sta. 12+01.94

-L- PC Sta. 155+81.28

-Y2A- PC Sta. 10+52.91

-Y2A- PT Sta. 12+38.13

POT Sta. 10+00.00

-Y29- PC Sta. 10+89.05

-Y29- PT Sta. 11+63.91

-Y29- POT Sta. 13+89.29

METROLINA MEDICAL PROPERTIES LLC DB 4307 PG 225

TOWN OF STALLINGS DB 8353 PG 245

SAFELITE ELECTRIC, INC DB 169 PG 171

MARK S. SIMPSON AND WIFE CAROL L. SIMPSON DB 5837 PG 550

JOHNSON WALTON CURTIS & HESTA T DB N/F PG N/F

KIMBERLY B. CROWE DB 659 PG 042

MARIA COPSIS TASSOPOULOS AND HUSBAND, TIMOTHY TASSOPOULOS, A ONE-HALF UNDEVIDED INTEREST AS TENANTS BY THE ENTIRETY AND PETER NICHOLAS COPSIS , THE OTHER ONE-HALF UNDIVIDED INTEREST AS TENANTS BY THE ENTIRETY DB 792 PG 860

CAROLINA CONCRETE, INC. DB 4540 PG 652 DB J PG 970

LR & FR, LLC DB 3409 PG 898

STARNES CAROLE, ET AL DB 20E PG 575

TIMOTHY & RANDALL DUCKWORTH DB N/F PG N/F

STALLINGS TOAD 209, LLC DB 7054 PG 569

EDWARD R. SQUIRES DB 8007 PG 462

STEGALL AND COMPANY INC. DB N/F PG N/F

THE POINTE AT CAMPUS RIDGE, LLC DB 7098 PG 810

WASH ONE, LLC C/O THE MOSER GROUP DB 3364 PG 087

RAINBOW TROUT PROPERTIES, LLC C/O THOMAS B MCELWEE DB 1579 PG 65 TRACT I

JANET GUION GRAHAM DB 4979 PG 6769

GUION FAMILY LP DB N/F PG N/F

30' PRIVATE DRIVEWAY EASEMENT DB 1466 PG 737

24' INGRESS/EGRESS/UTILITY EASEMENT DB 3 PG 160

SR 1009 OLD MONROE RD 49' BST

SR 1503 STALLINGS RD 40' BST

SR 1503 STALLINGS RD 60' BST

I, Theodore C. Benbow, PLS, 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) (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 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 15th day of August, 2022.

DocuSigned by: Clint Benbow 9831C13D55AA49E...

Professional Land Surveyor — L-5368 PLS # — Seal

NORTH CAROLINA PROFESSIONAL SEAL L-5368 LAND SURVEYOR THEODORE C. BENBOW

NC GRID NAD 83 NA 2011

10-AUG-2022 15:41
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USSV70137 AT /FMF SMS

DocuSign Envelope ID: A327E696-7CF5-472B-8816-B9B696A6EBC5

6/2/99

I, Thedore C. Benbow, PLS, 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) (R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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Witness my original signature, registration number and seal this 15th day of August, 2022.

DocuSigned by:
Clint Benbow
9831C13D55AA49E...

Professional Land Surveyor — L-5368 — PLS # — Seal

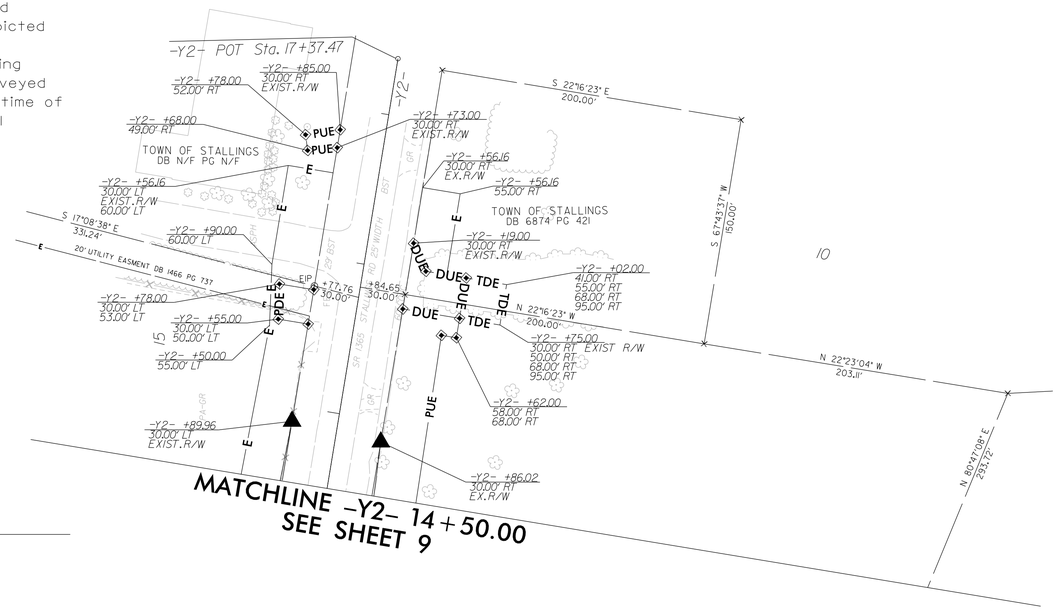
NORTH CAROLINA PROFESSIONAL SEAL L-5368 LAND SURVEYOR THEODORE C. BENBOW

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	RW9A

Location and Surveys

WSP USA Inc.
128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

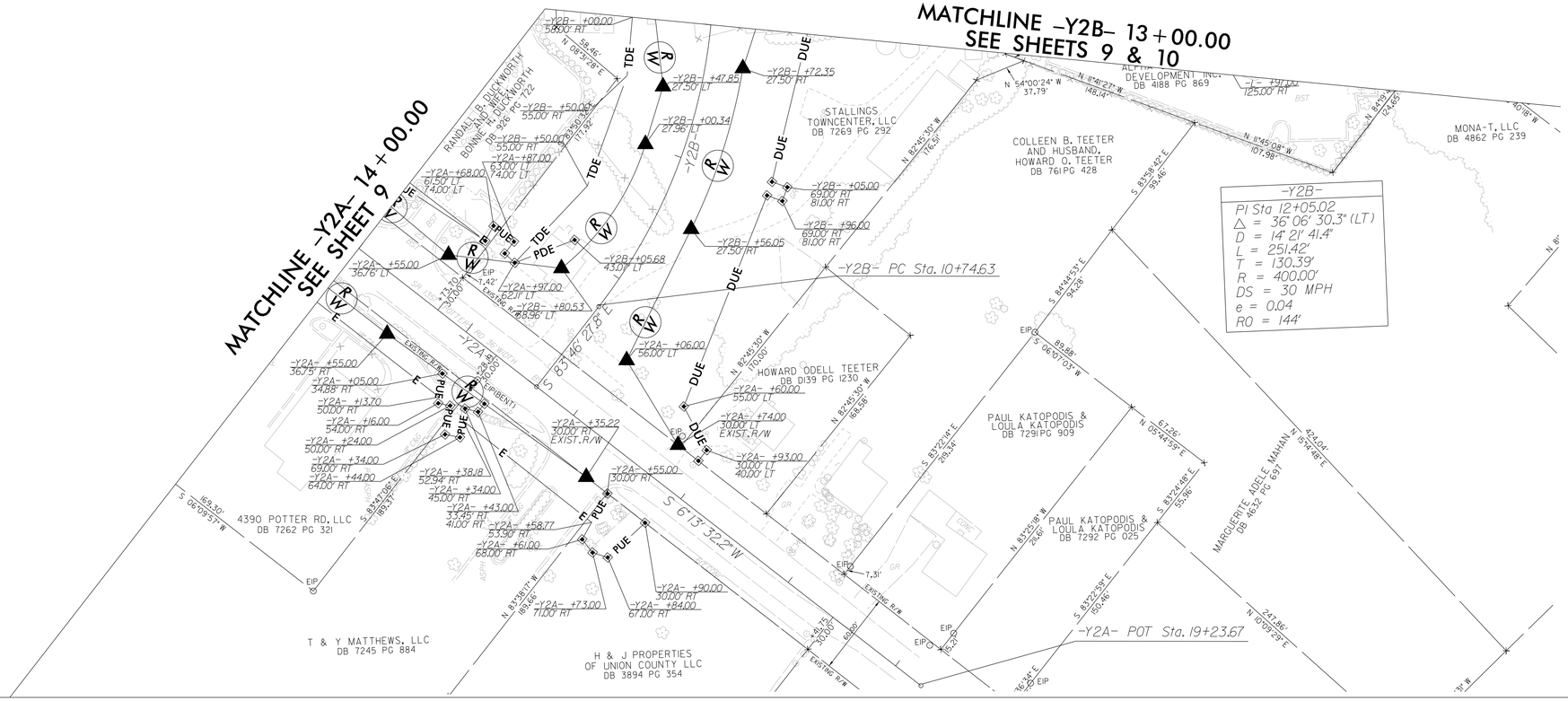
NC GRID
NAD 83 NA 2011



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.


MATCHLINE -Y2A- 14+00.00
SEE SHEET 9
MATCHLINE -Y2B- 13+00.00
SEE SHEETS 9 & 10
-Y2B- PC Sta. 10+74.63
-Y2B-
PI Sta 12+05.02
Δ = 36° 06' 30.3" (LT)
D = 14° 21' 41.4"
L = 251.42'
T = 130.39'
R = 400.00'
DS = 30 MPH
e = 0.04
RO = 144'
-Y2A- POT Sta. 19+23.67
S 83°46' 27.8" E
S 6°13' 32.2" W
RANDALL B. DUCKWORTH
BONNIE H. DUCKWORTH
DB 3016 PG 722
4390 POTTER RD, LLC
DB 7262 PG 321
T & Y MATTHEWS, LLC
DB 7245 PG 884
H & J PROPERTIES OF UNION COUNTY LLC
DB 3894 PG 354
STALLINGS TOWNCENTER, LLC
DB 7269 PG 292
COLLEEN B. TEETER AND HUSBAND, HOWARD O. TEETER
DB 761PG 428
HOWARD ODELL TEETER
DB 1139 PG 1230
PAUL KATOPODIS & LOULA KATOPODIS
DB 7291PG 909
PAUL KATOPODIS & LOULA KATOPODIS
DB 7292 PG 025
MARGUERITE ADELE MAHAN
DB 4632 PG 697
MONA-T, LLC
DB 4862 PG 239
ALPHA DEVELOPMENT INC.
DB 4188 PG 869
-Y2A- +55.00 36.75' RT
-Y2A- +05.00 34.88' RT
-Y2A- +13.70 50.00' RT
-Y2A- +16.00 54.00' RT
-Y2A- +24.00 50.00' RT
-Y2A- +34.00 69.00' RT
-Y2A- +44.00 64.00' RT
-Y2A- +55.00 36.76' LT
-Y2A- +97.00 62.21' LT
-Y2B- +80.53 68.96' LT
-Y2A- +35.22 EXIST.R/W
-Y2A- +38.18 52.94' RT
-Y2A- +34.00 45.00' RT
-Y2A- +43.00 33.45' RT 41.00' RT
-Y2A- +58.77 53.90' RT
-Y2A- +61.00 68.00' RT
-Y2A- +73.00 71.00' RT
-Y2A- +84.00 67.00' RT
-Y2A- +90.00 30.00' RT
-Y2B- +00.00 59.00' RT
-Y2B- +47.85 27.50' LT
-Y2B- +00.34 27.50' LT
-Y2B- +50.00 55.00' RT
-Y2A- +87.00 63.00' LT 74.00' LT
-Y2A- +68.00 63.50' LT 74.00' LT
-Y2B- +05.68 43.01' LT
-Y2B- +72.35 27.50' RT
-Y2B- +05.00 69.00' RT 81.00' RT
-Y2B- +96.00 69.00' RT 81.00' RT
-Y2B- +56.05 27.50' RT
-Y2A- +06.00 56.00' LT
-Y2A- +60.00 55.00' LT
-Y2A- +74.00 30.00' LT EXIST.R/W
-Y2A- +93.00 30.00' LT 40.00' LT
-Y2A- +55.00 30.00' RT
-Y2A- +90.00 30.00' RT
-Y2B- +02.00 125.00' RT
N 54°00'24" W 37.79'
N 11°40'27" W 146.14'
N 11°45'08" W 101.98'
N 82°45'30" W 176.31'
N 82°45'30" W 170.00'
N 82°45'30" W 168.38'
S 84°44'53" E 94.28'
S 83°58'42" E 99.46'
S 83°22'48" E 35.96'
S 83°22'59" E 155.46'
S 83°22'48" E 209.34'
N 83°25'08" W 28.65'
N 83°38'17" W 165.68'
N 10°09'29" E 241.86'
N 15°14'48" E 424.04'
N 05°44'59" E 67.26'
S 84°47'08" E 189.37'
S 06°09'57" W 169.30'
S 06°07'03" W 88.88'
EIP 7.31'
EIP 5.20'
EIP 16.34'
EXISTING R/W
EXISTING R/W
EXISTING R/W

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6/2/99

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	RW10

Location and Surveys

WSP USA Inc.
128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

I, Thedore C. Benbow, PLS, 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) (R/W Staking) performed under my responsible charge meet NCDOT Survey Standards as directed in the NCDOT Location & Surveys guidelines and procedures.

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Witness my original signature, registration number and seal this 15th day of August, 2022.

DocuSigned by:
Clint Benbow
9831C13D55AA49E...

Professional Land Surveyor — L-5368 PLS # — Seal

NORTH CAROLINA PROFESSIONAL SEAL L-5368 LAND SURVEYOR THEODORE C. BENBOW

HISTORIC PROPERTY
-L-
PI Sta 171+30.88
△ = 13° 26' 32.1" (LT)
D = 1° 08' 45.3"
L = 1,173.06'
T = 589.23'
R = 5,000.00'
DS = 50 MPH
e = 0.03
RO = 150'

-Y31-
PI Sta 14+15.27
△ = 64° 00' 28.8" (LT)
D = 19° 51' 25.3"
L = 322.34'
T = 180.33'
R = 288.54'

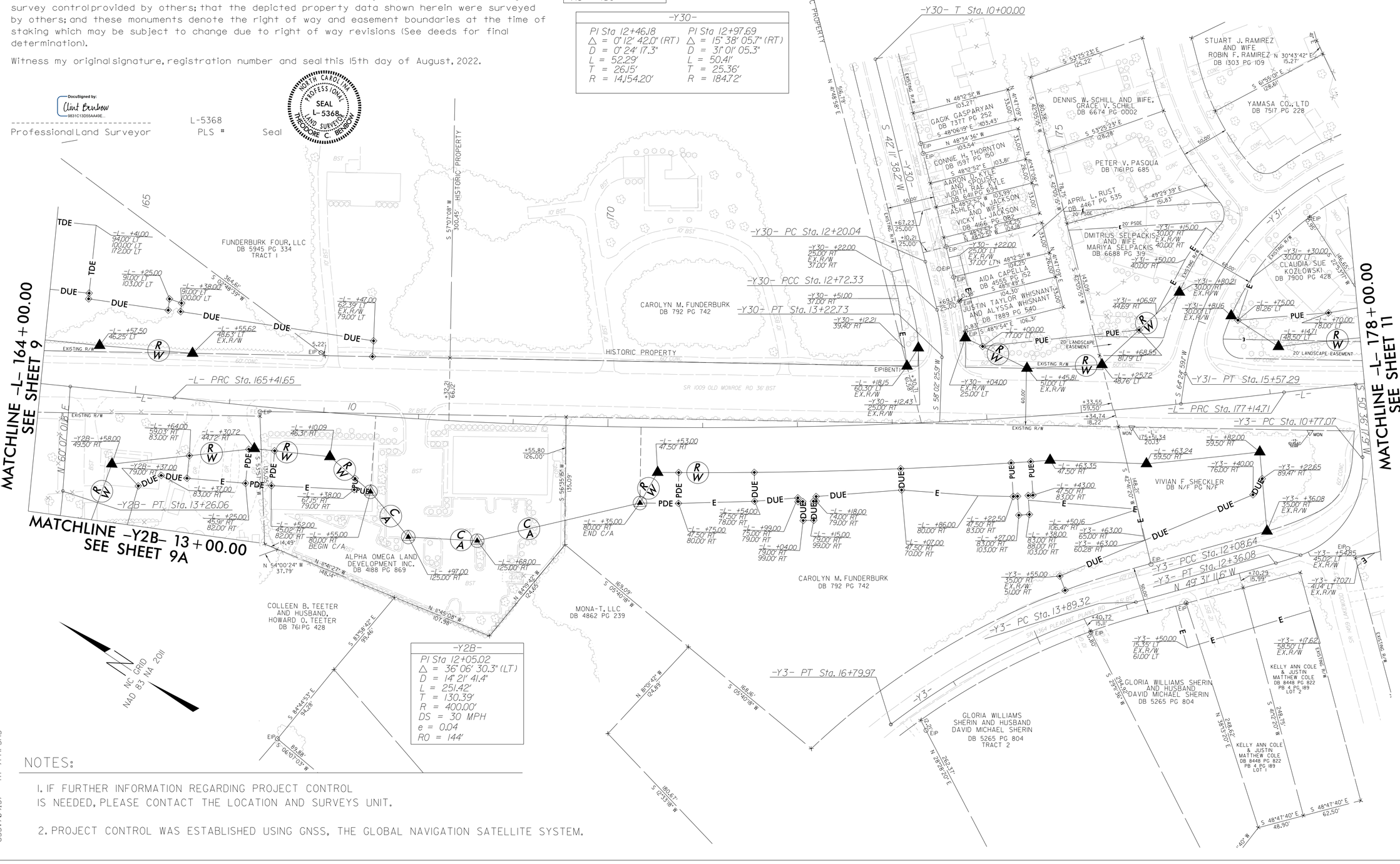
-Y30-
PI Sta 12+46.18
△ = 0° 12' 42.0" (RT)
D = 0° 24' 17.3"
L = 52.29'
T = 26.15'
R = 14,154.20'

PI Sta 12+97.69
△ = 15° 38' 05.7" (RT)
D = 3° 01' 05.3"
L = 50.41'
T = 25.36'
R = 184.72'

-Y3-
PI Sta 11+54.33
△ = 75° 22' 59.7" (RT)
D = 57° 17' 44.8"
L = 131.57'
T = 77.27'
R = 100.00'
DS = 20 MPH
e = 0.04
RO = 60'

PI Sta 12+22.36
△ = 4° 29' 30.8" (RT)
D = 16° 22' 12.8"
L = 27.44'
T = 13.73'
R = 350.00'

PI Sta 15+36.44
△ = 21° 54' 44.0" (LT)
D = 7° 32' 20.1"
L = 290.65'
T = 147.12'
R = 760.00'



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.

11-AUG-2022 13:05
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USSTATEPLANE AT FEMFSMS

DocuSign Envelope ID: A327E696-7CF5-472B-8816-B9B696A6EBC5

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	RW11

Location and Surveys

WSP USA Inc.
128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

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Professional Land Surveyor — PLS # L-5368 — Seal

NORTH CAROLINA PROFESSIONAL SEAL L-5368 LAND SURVEYOR THEODORE C. BENBOW

NC GRID NAD 83 NA 2011

-Y31-
PI Sta 10+97.13
△ = 29° 52' 27.4" (RT)
D = 18° 54' 52.1"
L = 157.94'
T = 80.81'
R = 302.92'

-L-
PI Sta 179+06.01
△ = 7° 17' 50.8" (RT)
D = 1° 54' 35.5"
L = 382.09'
T = 191.31'
R = 3,000.00'
DS = 50 MPH
e = .04

-Y33-
PI Sta 13+31.94
△ = 12° 51' 21.3" (LT)
D = 12° 31' 44.5"
L = 102.61'
T = 51.52'
R = 457.30'

-L-
PI Sta 184+94.48
△ = 4° 33' 17.0" (LT)
D = 0° 34' 22.6"
L = 794.95'
T = 397.68'
R = 10,000.00'
DS = 50 MPH
e = NC

-Y31-
PI Sta 10+64.37
△ = 3° 55' 59.1" (RT)
D = 4° 23' 54.9"
L = 89.42'
T = 44.73'
R = 1,302.60'
DS = 50 MPH
e = NC

-Y34-	
PI Sta 11+54.33	PI Sta 12+30.04
△ = 75° 22' 59.7" (RT)	△ = 2° 47' 34.9" (RT)
D = 60° 00' 00.0"	D = 2° 15' 39.9"
L = 125.64'	L = 123.53'
T = 77.27'	T = 61.78'
R = 100.00'	R = 2,533.99'

-Y35-
PI Sta 12+51.00
△ = 36° 03' 31.9" (RT)
D = 35° 41' 03.0"
L = 101.05'
T = 52.26'
R = 160.56'

-Y31- POT Sta. 10+00.00
-Y31- PC Sta. 10+16.32
-Y31- PC Sta. 12+34.95
-Y31- PT Sta. 11+74.26
-Y31-
N 81° 26' 59.5" W
S 52°37'31" E 75.02'
S 50°53'42" W 155.50'
N 39°06'42" E 86.28'
EXISTING R/W
N 51° 34' 32.1" W
+38.22 30.21'
+03.98 31.18'
IGOR JURIC AND SAMANTHA JURIC AKA SAMANTHA M. JUIC, HUSBAND AND WIFE DB 6699 PG 427
M. BRENT HUFFMAN AND WIFE, KIMBERLY G. HUFFMAN DB 1005 PG 501
S 09°25'07" E 131.81'
S 34°02'19" E 39.96'
N 76°35'25" E 9.95'
S 05°09'48" E 160.32'
-Y33- POT Sta. 10+00.00
N 34°11'34" W 165.26'
-Y33- PC Sta. 10+19.65
S 83° 25' 36.6" W
KIMBERLY M. DELGADO DB 7260 PG 872
S 05°50'29" W 161.07'
-Y33- +30.00 30.33' RT EX.R/W 50.00' RT
-Y33- PT Sta. 11+09.06
N 86° 28' 24.3" W
JOSEPH G. LANE AND WIFE, WENDY T. LANE DB 1836 PG 450
WILLIAM A. LAUSTSEN & ALICIA M. LAUSTSEN DB 1674 PG 400
S 07°09'50" W 182.35'
20' WIDE
-Y33- +84.36 50.00' RT EX.ESMT
-Y33- PC Sta. 12+80.42
CASSANDRA J MAKOWSKI & DENNIS JAMES MAKOWSKI JR. DB 7494 PG 490
S 23°02'17" W 228.70'
S 22°57'58" W 224.75'
-Y33- +01LT 55.00' RT EX.ESMT
-L- +29.00 92.00' LT 102.00' LT
-L- +18.00 91.00' LT 101.00' LT
ANDREY LASHTUR DB 7392 PG 817
-L- +11.50 81.00' LT 90.00' LT
-L- +50.00 91.00' LT
-L- +62.86 83.74' LT
-Y33- +33.00 32.69' RT
-Y33- +57.90 36.30' RT EX.R/W
-L- +23.00 81.00' LT 91.00' LT
-L- +93.50 78.50' LT
20' LANDSCAPE EASEMENT
S 57°09'43" W 28.35'
+21.82 21.77'
+45.89 14.04'
-L-
-Y33- PT Sta. 13+83.03
+53.66 146.31'
MON 178+87.00 59.76'
HISTORIC PROPERTY CAROLYN M. FUNDERBURK DB 3119 PG 212
-L- PRC Sta. 180+96.80
-Y34- PT Sta. 12+91.79
N 44° 00' 37.7" E
-Y34- PC Sta. 11+68.26
N 41° 13' 02.8" E
-Y34-
-Y34- POT Sta. 10+00.00
TAE KYU PARK AND WIFE, OH SEON PARK DB 1317 PG 658
-L- +87.00 162.95' RT EXIST. R/W 168.00' RT
-L- +55.00 168.73' RT EXIST. R/W 174.00' RT
-L- +66.00 172.00' RT
-L- +77.00 177.00' RT
-L- +81.00 180.00' RT
-L- +70.00 182.00' RT
4.92' EIP
HOMESALES INC. DB 5208 PG 205 PB 4 PG 189 LOT 2
BONNIE FAYE MARTIN AND KIMBERLY DAWN SIETMANN DB 6082 PG 0734 PB 4 PG 189 LOT 4
BONNIE FAYE MARTIN AND KIMBERLY DAWN SIETMANN DB 6082 PG 0734 PB 4 PG 189 LOT 3
HOMESALES INC. DB 5208 PG 205 PB 4 PG 189 LOT 1
BONNIE FAYE MARTIN AND KIMBERLY DAWN SIETMANN DB 6082 PG 0734 PB 4 PG 189 LOT 5
RONALD LEE ALLED SEPERATED DB 1825 PG 109 PB 4 PG 189 LOT 19
BONNIE FAYE MARTIN AND KIMBERLY DAWN SIETMANN DB 6082 PG 0734 PB 4 PG 189 LOT 6
S 40°20'00" W 150.00'
S 49°39'38" W 145.08'
S 48°47'40" E 11.65'
S 48°47'40" E 72.67'
S 48°47'40" E 70.00'
S 48°47'40" E 70.00'
S 51°15'20" W 75.18'
S 48°47'42" E 139.13'
S 48°47'38" E 145.18'
N 20°... 87'
-Y33- PT Sta. 13+31.94
N 87° 28' 32.7" W
-Y35- PT Sta. 12+99.79
-Y35- POT Sta. 13+35.14
-Y35- PC Sta. 11+98.74
-Y35-
-L- PT Sta. 188+91.75
-L- +82.75 153.00' LT
-L- +40.00 153.00' LT
-L- +80.00 118.38' LT
-L- +99.00 108.00' LT 119.00' LT
-L- +68.00 108.00' LT 112.00' LT
-L- +59.00 106.00' LT 117.00' LT
-L- +72.00 106.00' LT 115.00' LT
-L- +21.00 106.00' LT 112.00' LT
-L- +62.00 108.55' LT
-L- +61 96.78' LT
-Y33- +30.00 29.88' LT EX.R/W
-L- +58.00 78.50' LT
-L- +50.00 52.50' LT
-L- +68.00 52.50' LT
-L- +00.00 85.00' LT BEGIN C/A
-L- +34.00 71.00' LT END C/A
-L- +91.75 54.50' LT
STALLINGS POINTE, LLC DB 7094 PG 100
DUE
PUE
PDE
E
EXISTING R/W
60' CONC
SR 1009 OLD MONROE ROAD 27' BST
-L- +94.88 54.50' RT
-L- +40.00 EX.R/W 53.38' RT
-L- +33.00 80.00' RT
-L- +16.00 88.00' RT
-L- +58.00 53.25' RT EX.R/W 81.00' RT
-Y35- +35.00 30.00' LT EX.R/W
-Y35- +00.00 30.00' RT EX.R/W
-L- +27.00 75.00' RT
-L- +39.00 EX.R/W 75.00' RT
-L- +30.00 EX.R/W 75.00' RT
-L- +00.00 EX.R/W 75.00' RT
-L- +60.00 60.67' RT EX.R/W 72.00' RT
-L- +76.00 62.30' RT EX.R/W 72.00' RT
-L- +19.00 63.29' RT EX.R/W 85.00' RT
-L- +27.00 86.00' RT 98.00' RT
-L- +38.00 88.00' RT 98.00' RT
-L- +52.00 62.73' RT EX.R/W 90.00' RT
-Y34- PC Sta. 11+68.26
-Y35- PC Sta. 11+98.74
IME INVESTMENTS GROUP, INC DB 5405 PG 517 PB 4 PG 189 LOT 1
IME INVESTMENTS GROUP, INC DB 5405 PG 517 PB 4 PG 189 LOT 2
IME INVESTMENTS GROUP, INC DB 5405 PG 517 PB 4 PG 189 LOT 3
IME INVESTMENTS GROUP, INC DB 5405 PG 517 PB 4 PG 189 LOT 4
COUCHELL PETER JR PB 4 PG 189 LOT 5
COUCHELL PETER JR PB 4 PG 189 LOT 6
COUCHELL PETER JR PB 4 PG 189 LOT 7
COUCHELL PETER JR PB 4 PG 189 LOT 8
N 52°09'20" E 198.05'
N 52°09'20" E 198.07'
N 52°09'20" E 198.70'
N 52°09'20" E 198.47'
N 52°09'20" E 198.00'
N 52°09'20" E 196.8'
S 52°51'20" W 199.53'
S 52°51'20" W 200.69'
N 37°50'40" W 40.29'
S 37°50'40" E 33.04'
S 37°50'40" E 50.00'
S 37°50'40" E 11.02'
S 37°50'40" E 35.06'
S 37°50'40" E 39.59'
S 37°50'40" E 10.41'
S 37°50'40" E 50.00'
S 37°50'40" E 50.00'
S 37°50'40" E 27.34'
DAVID M SMITH & DEBBIE W SMITH DB 4359 PG 701 PB 4 PG 189 LOT 9
DAVID M SMITH & DEBBIE W SMITH DB 4359 PG 701 PB 4 PG 189 LOT 10
DAVID M SMITH & DEBBIE W SMITH DB 4359 PG 701 PB 4 PG 189 LOT 11
B.E. THOMPSON AND DEWEY THOMAS PRIEST DB 0840 PG 0655 PB 4 PG 189 LOT 12
B.E. THOMPSON AND DEWEY THOMAS PRIEST DB 0840 PG 0655 PB 4 PG 189 LOT 13
B.E. THOMPSON AND DEWEY THOMAS PRIEST DB 0840 PG 0655 PB 4 PG 189 LOT 14
N 49°39'38" E 64.93'
N 49°10'02" E 71.74'
N 49°10'02" E 64.93'
N 04°12'20" E 38.00'
N 04°12'20" E 70.00'
N 04°12'20" E 215.48'
S 04°23'36" W 269.93'
S 04°22'50" W 228.76'
N 04°12'20" E 70.00'
TIMOTHY L. SHERIN DB 3025 PG 664 PB 4 PG 189 LOT 1
TIMOTHY L. SHERIN DB 3025 PG 664 PB 4 PG 189 LOT 2
TIMOTHY L. SHERIN DB 3025 PG 664 PB 4 PG 189 LOT 3
S 52°03'15" W 16.43'
N 52°03'25" E 184.30'
S 58°30'23" W 207.28'
S 51°15'12" W 238.56'
TIMOTHY L. SHERIN AND WIFE, DAWN M. SHERIN DB 0916 PG 792 PB 7 PG 37A LOT 5
RZR LOVE LLC DB 8081 PG 558 PB 7 PG 37A LOT 6
N 25°03'35" W 140.96'
N 25°03'35" W 102.76'
N 25°... 52.1...
S 56° 27' 55.4" W
N 87° 28' 32.7" W
N.J.V. ENTERPRISES, LLC DB 8429 PG 866 PB 4 PG 189 LOT 19
N.J.V. ENTERPRISES, LLC DB 8429 PG 866 PB 4 PG 189 LOT 18
N.J.V. ENTERPRISES, LLC DB 8429 PG 866 PB 4 PG 189 LOT 17
N.J.V. ENTERPRISES, LLC DB 8429 PG 866 PB 4 PG 189 LOT 20
S 85°47'40" E 125.00'
N 02°24'20" W 80.00'
S 85°47'40" E 163.29'
S 85°47'40" E 166.23'
MATCHLINE -L- 178+00.00 SEE SHEET 10
MATCHLINE -L- 192+00.00 SEE SHEET 12

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.

6/2/99

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PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	RW12

Location and Surveys

WSP USA Inc.
128 TALBERT ROAD
SUITE A
MOORESVILLE, NC 28117
TEL: 704.662.0100
WWW.WSP.COM

I, Thedore C. Benbow, PLS, 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) (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 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 15th day of August, 2022.

DocuSigned by:
Clint Benbow
9831C13D55AA49E...

Professional Land Surveyor — PLS # L-5368 — Seal

NORTH CAROLINA PROFESSIONAL SEAL L-5368 LAND SURVEYOR THEODORE C. BENBOW

NC GRID
NAD 83 NA 2011

MATCHLINE -L- 192+00.00
SEE SHEET 11

KRISTIN AREY
DB 6975 PG 677
PB A PG 50B
LOT 15

ERIK K ROWLETT
AND WIFE
ISABEL RUEDA ABAD
DB 6005 PG 222

ROBERT M. SULLIVAN
AND WIFE
SHARON L. SULLIVAN
DB 1653 PG 327

MATTHEW SMITH
DB 7247 PG 709
PB F PG 844

MARK DAVID BROOME
DB 7235 PG 204

STALLINGS POINTE, LLC
DB 7094 PG 100

JACEK RUDZIEWICZ
DANKA RUDZIEWICZ
DB 3792 PG 326
PB F PG 844

DAVID L RAY
SUSAN A RAY
DB 1925 PG 671
PB F PG 844

CHRISTINE S GOODSON
DAVIS A GOODSON
DB 3187 PG 441
PB F PG 844

MORNINGSIDE MEADOWS
HOMEOWNERS ASSOCIATION, INC
DB 1414 PG 136

2017-1IH
BORROWER L.P.
DB 7015 PG 435
PB F PG 844
(EXHIBIT A-12)

KORRY L
HUMPHREY
DB 6018 PG 858
PB F PG 844

KIMBERLY A ELSASSER
DB 3681PG 307
PB F PG 844

MORNINGSIDE MEADOWS
HOMEOWNERS ASSOCIATION, INC
DB 1414 PG 136
PB F PG 844
COS

BLUEBONNET LN

MORNINGSIDE MEADOW LN

-L- +91.00
104.00' LT

-L- +79.00
94.00' LT
103.00' LT

-L- +12.00
54.50' LT (U-4714B R/W)
82.00' LT

DUE

END U-4714AC -L- +50.61
BEGIN U-4714B
54.50' LT

R/W

EXISTING R/W

S 38° 12' 43.5" E

-L- +90.97
53.27' RT
EXIST. R/W

-L- +90.98
69.39' RT

DAWN M. SHERIN
DB 4555 PG 131
PB 7 PG 37A
LOT 4

317 PROPERTIES, LLC
DB 5887 PG 181
PB 7 PG 37A
LOT 3

ALLEN POLE
DB 1411PG 344
PB 7 PG 37A
LOT 2

DANNY F. DUNN
AND WIFE,
JENNIFER J DUNN
DB 4142 PG 876
PB 7 PG 37A
LOT 1

JAMES HAMILTON
TURNER, JR
DB 3524 PG 722

ANTONIOS K. PANOU
DB 911PG 697

ANTONIOS K. PANOU
DB 858 PG 500

BRUCE R. MARX
AND SPOUSE, LINDA L MARX
DB 5944 PG 570

WILLIAM LARRY ALEXANDER
DB 7503 PG 411

DAMON S. BUTCHER
AND WIFE, TIFFANY M. BUTCHER
DB 1349 PG 699

WILLIAM F. DEMOSS
AND NANCY B. DEMOSS
DB 7131PG 678

LINA M. ALEXANDER
DB 1169 PG 823

MAXWELL
RICHARD
MCWATERS
DB 7436 PG 537

HAZEL FOSTER
DB N/F PG N/F

RICHARD P. BROOME
DB 365 PG 477

YAMASA CO., LTD.
DB 7531PG 455

FULCRUM PROPERTY
MANAGEMENT LLC
DB 4772 PG 275

ERIC W. CARTON
AND WIFE,
TARA A. CARTON

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.

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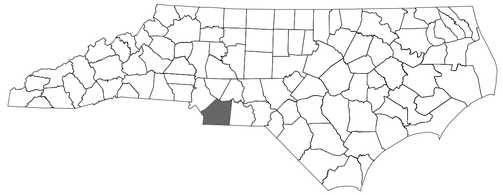
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

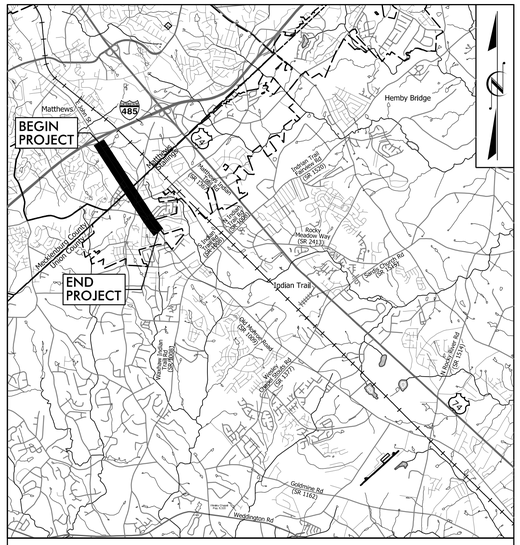
TRANSPORTATION MANAGEMENT PLAN

UNION COUNTY



LOCATION: SR 1009 (JOHN STREET\OLD MONROE ROAD) FROM EAST OF I-485 INTERCHANGE TO WEST OF MORNINGSIDE MEADOW LANE

TYPE OF WORK: CLEARING AND GRUBBING, EROSION CONTROL



VICINITY MAP

INDEX OF SHEETS

SHEET NO.	TITLE
TMP-1	TITLE SHEET, VICINITY MAP, INDEX OF SHEETS, LIST OF APPLICABLE ROADWAY STANDARD DRAWINGS, AND PHASING
TMP-1A	TRANSPORTATION OPERATIONS PLAN: (MANAGEMENT STRATEGIES, GENERAL NOTES, AND LOCAL NOTES)

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.05	WORK ZONE VEHICLE ACCESSES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUMS
1135.01	CONES
1150.01	FLAGGING DEVICES

PHASING

STEP 1. USING RSD 1101.02 SHEETS 1 AND 2 OF 14 INSTALL THE WORK ZONE ADVANCE WARNING SIGNS. SEE ROADWAY STANDARD DRAWING (RSD) 1101.01 SHEET 3 OF 3.

STEP 2. WORKING AWAY FROM TRAFFIC AND USING RSD 1101.02 AND 1101.04 AS NEEDED, COMPLETE THE CLEARING AND GRUBBING.

SHEET NO.
TMP-1

U-4714AC

TIP PROJECT:



WORK ZONE SAFETY & MOBILITY
"from the MOUNTAINS to the COAST"

PLANS PREPARED BY:

SEAN C. STEPHENS, PE
TRAFFIC ENGINEER

ASHLEY N. BOUCHARD, PE
TRANSPORTATION DESIGNER

NCDOT CONTACTS:

SHEENA GREEN
PROJECT ENGINEER

BRYAN C. KEY, PE
PROJECT DESIGN ENGINEER

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

APPROVED: DocuSigned by: Sean C. Stephens 8E63BFA07691C436...

DATE: 9/21/2023

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 043891 ENGINEER SEAN C. STEPHENS

9/15/2023
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PROJ. REFERENCE NO.	SHEET NO.
U-4714AC	TMP-1A

MANAGEMENT STRATEGIES

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

TRAFFIC MANAGEMENT STRATEGIES:
- LANE SHIFTS OR CLOSURES
- SHOULDER CLOSURES
- ONE-LANE, TWO WAY OPERATION (FLAGGING)
- WORK HOUR RESTRICTIONS FOR PEAK TRAVEL

GENERAL NOTES

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 UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

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.

TIME RESTRICTIONS

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

ROAD NAME	DAY AND TIME RESTRICTIONS
ALL ROADS	MONDAY THRU FRIDAY 6:00 A.M. - 9:00 P.M. SATURDAY AND SUNDAY 9:00 A.M. - 9:00 P.M.

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

ROAD NAME

ALL ROADS

HOLIDAY

1. FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
2. FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31st TO 9:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 9:00 P.M. THE FOLLOWING TUESDAY.
3. FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 9:00 P.M. MONDAY.
4. FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 9:00 P.M. TUESDAY.
5. FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 9:00 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 9:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
6. FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 9:00 P.M. TUESDAY.
7. FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 9:00 P.M. MONDAY.
8. FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 9:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

C) DO NOT STOP TRAFFIC AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS	DURATION AND OPERATION
ALL ROADS	MONDAY THRU SUNDAY 12:00 A.M. - 9:00 A.M. 11:00 A.M. - 1:00 P.M. 4:00 P.M. - 11:59 P.M.	10 MINUTES MAX FOR TREE REMOVAL

TIME RESTRICTIONS CONTINUED

D) DO NOT CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OF AN OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY BARRIER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

LANE AND SHOULDER CLOSURE REQUIREMENTS

E) 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.

F) 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.

G) 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.

H) 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.

I) 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.

J) 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.

K) DO NOT INSTALL MORE THAN TWO SIMULTANEOUS LANE CLOSURES ON ANY ROAD.

L) PROVIDE A MINIMUM OF TWO MILES BETWEEN LANE CLOSURES, MEASURED FROM THE END OF ONE CLOSURE TO THE FIRST SIGN OF THE NEXT LANE CLOSURE.

PAVEMENT EDGE DROP OFF REQUIREMENTS

M) 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.

SIGNING

N) 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.

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

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

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.

PAVEMENT MARKINGS AND MARKERS

R) REPLACE ANY DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

APPROVED: DocuSigned by: Sean C. Stephens BE638FA07699C436...

DATE: 9/21/2023

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 043891 ENGINEER SEAN C. STEPHENS

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL

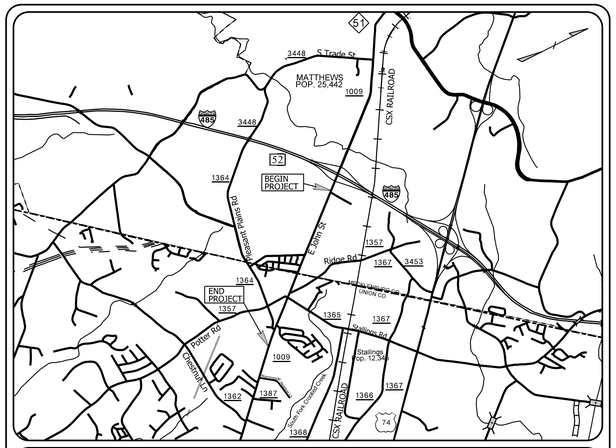
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TRANSPORTATION MANAGEMENT PLAN

GENERAL NOTES

9/5/2023
R:\Traffic\TrafficControl\TCP\U-4714AC\Early Clearing and Grubbing TCP Sheets\U-4714AC_TCP_TMP-01A_CG.dgn
User:stephesc

TIP PROJECT: U-4714AC



VICINITY MAP
NOT TO SCALE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

MECKLENBURG & UNION COUNTY

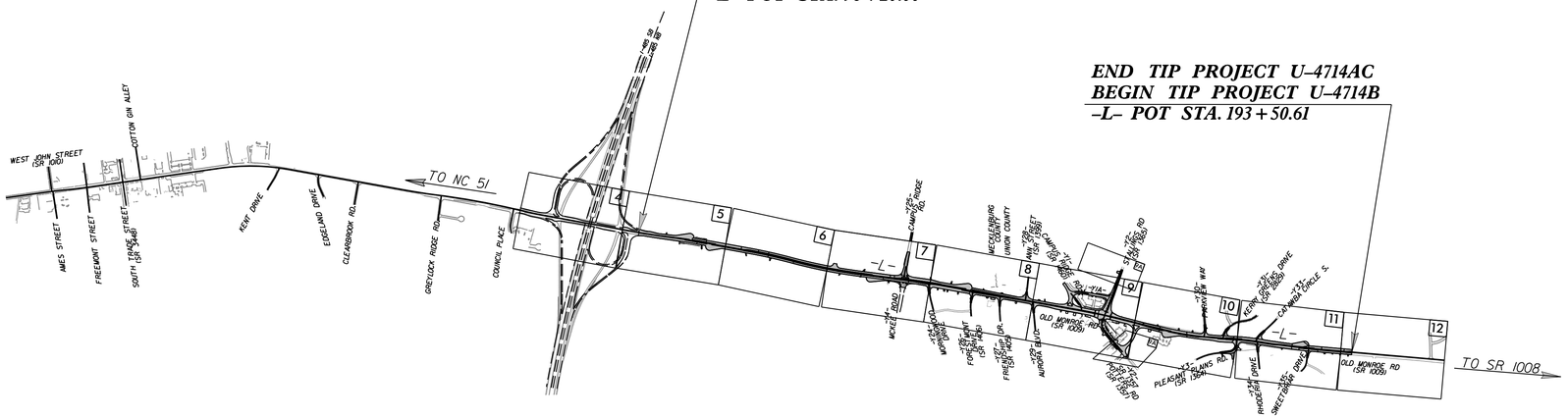
LOCATION: SR 1009 (JOHN STREET\OLD MONROE ROAD)
FROM EAST OF I–485 INTERCHANGE TO
WEST OF MORNINGSIDE MEADOW LANE

TYPE OF WORK: CLEARING, UTILITY RELOCATION

BEGIN TIP PROJECT U–4714AC
–L– POT STA. 96+20.00

END TIP PROJECT U–4714AC
BEGIN TIP PROJECT U–4714B
–L– POT STA. 193+50.61

NAD 83 /NA 2011



NOTE:
1. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD 2.
2. THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF MATTHEWS, STALLINGS AND INDIAN TRAIL.
3. THIS IS A PARTIAL CONTROLLED–ACCESS PROJECT WITH ACCESS BEING LIMITED TO POINTS SHOWN ON THE PLANS.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4714AC	EC-1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
39078.1.8		P.E.
39078.2.10		R/W
39078.3.9		CON

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TSD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
1633.02	Temporary Rock Silt Check Type-B	
	Wattle / Coir Fiber Wattle	EW CFW
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	
1634.01	Temporary Rock Sediment Dam Type-A	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1630.04	Stilling Basin	
1630.06	Special Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	

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

SITE TO BE STABILIZED IMMEDIATELY FOLLOWING CLEARING AND GRUBBING

SAFETY FENCE TO BE INSTALLED PRIOR TO CLEARING AND GRUBBING

GRAPHIC SCALE

50 25 0 50 100
PLANS

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE APPLICABLE REGULATIONS SET FORTH BY THE NCG–010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.

Prepared In the Office of:

SUNGATE DESIGN GROUP, P.A.
905 JONES FRANKLIN ROAD
RALEIGH, NORTH CAROLINA 27606
TEL (919) 859-2243
ENG FIRM LICENSE NO. C-890

Designed by:

BRIAN N. ELAM, PE ***3195***
NAME *LEVEL III CERTIFICATION NO.*

Roadway Standard Drawings

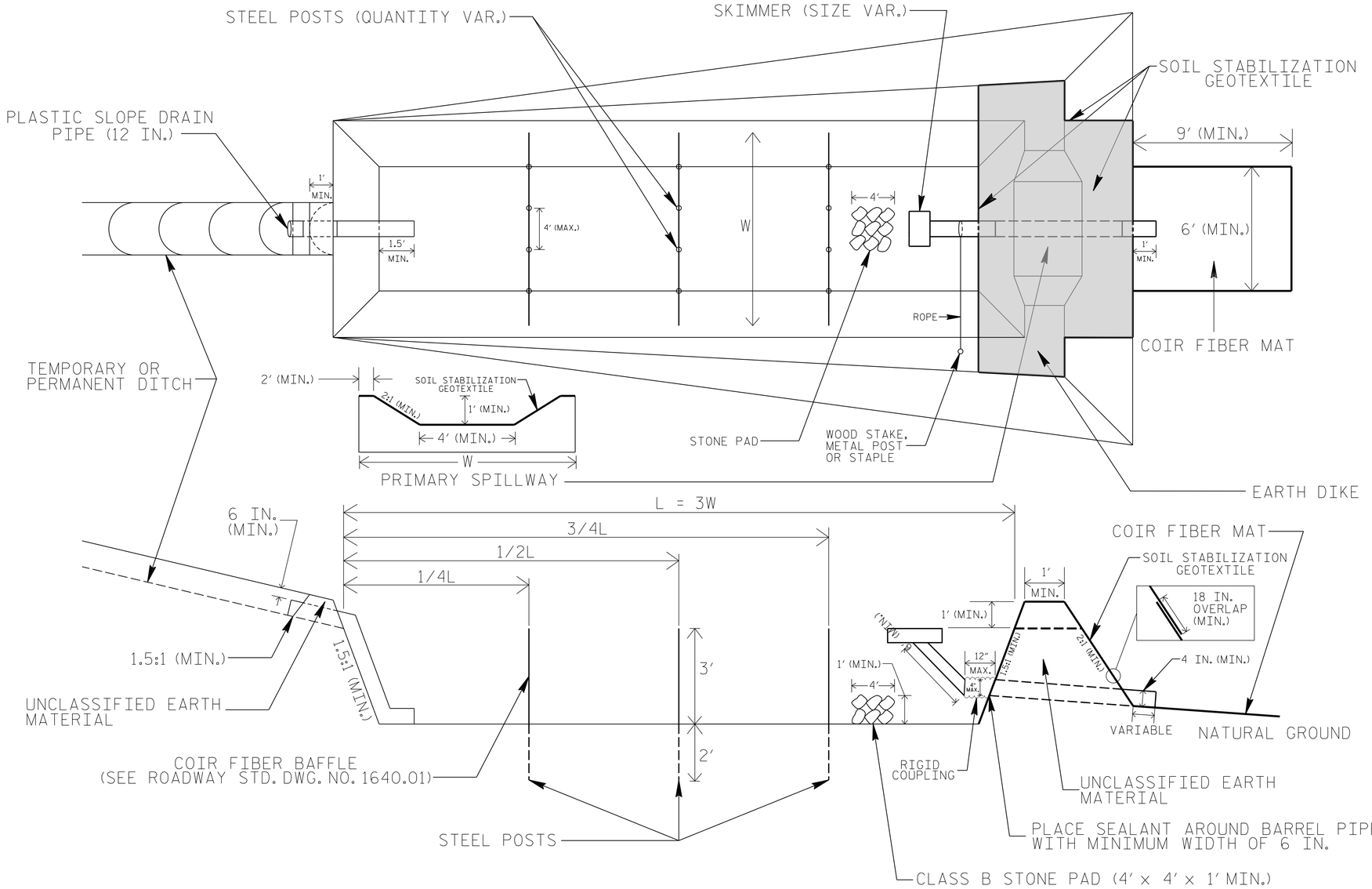
The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revison thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01	Railroad Erosion Control Detail	1632.01	Rock Inlet Sediment Trap Type A
1605.01	Temporary Silt Fence	1632.02	Rock Inlet Sediment Trap Type B
1606.01	Special Sediment Control Fence	1632.03	Rock Inlet Sediment Trap Type C
1607.01	Gravel Construction Entrance	1633.01	Temporary Rock Silt Check Type A
1622.01	Temporary Berms and Slope Drains	1633.02	Temporary Rock Silt Check Type B
1630.01	Riser Basin	1634.01	Temporary Rock Sediment Dam Type A
1630.02	Silt Basin Type B	1634.02	Temporary Rock Sediment Dam Type B
1630.03	Temporary Silt Ditch	1635.01	Rock Pipe Inlet Sediment Trap Type A
1630.04	Stilling Basin	1635.02	Rock Pipe Inlet Sediment Trap Type B
1630.05	Temporary Diversion	1640.01	Coir Fiber Baffle
1630.06	Special Stilling Basin	1645.01	Temporary Stream Crossing
1631.01	Matting Installation		

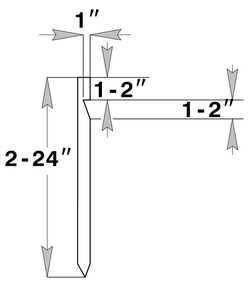
8/17/2023
U4714AC_EC_dsn_psh_01.dgn
mdavidge

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

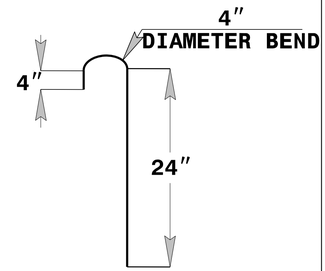
SKIMMER BASIN WITH BAFFLES DETAIL



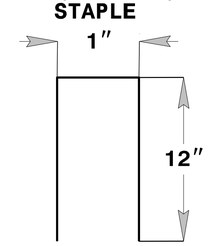
2″ x 2″ (nominal) WOODEN STAKE



#10 STEEL REINFORCEMENT BAR



1″ (nominal) STAPLE



COIR FIBER MAT ANCHOR OPTIONS

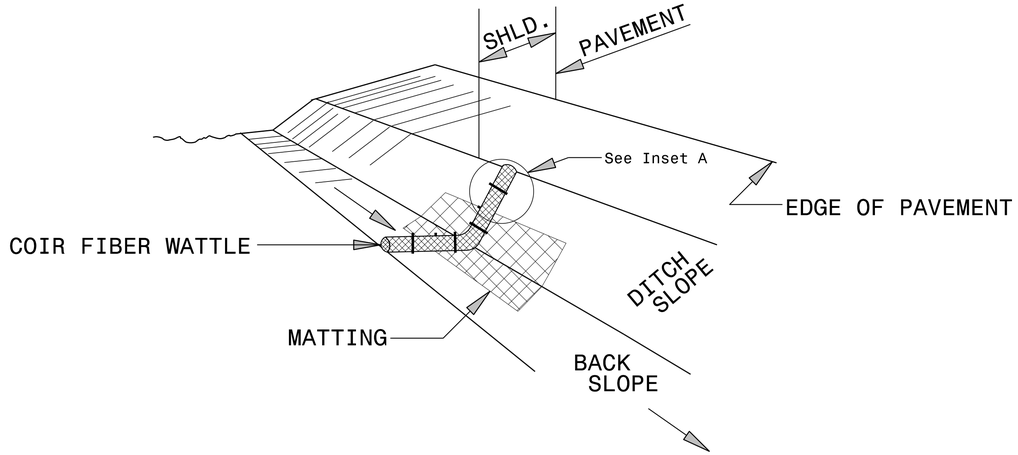
NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE PRIMARY SPILLWAY WEIR LENGTH (FT.) USING Q/0.8, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE OR TARP AS DIRECTED.
6. SOIL STABILIZATION GEOTEXTILE FOR PRIMARY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

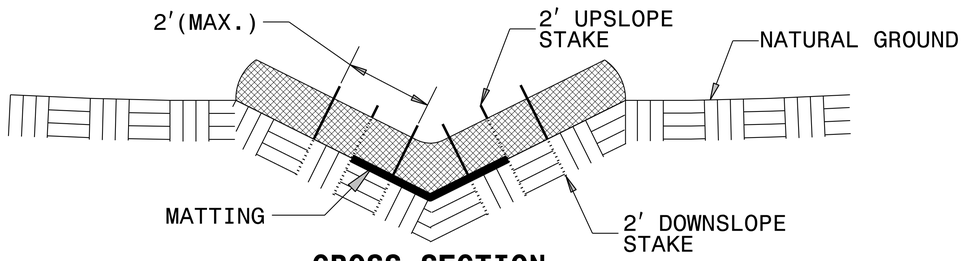
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	EC-2A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

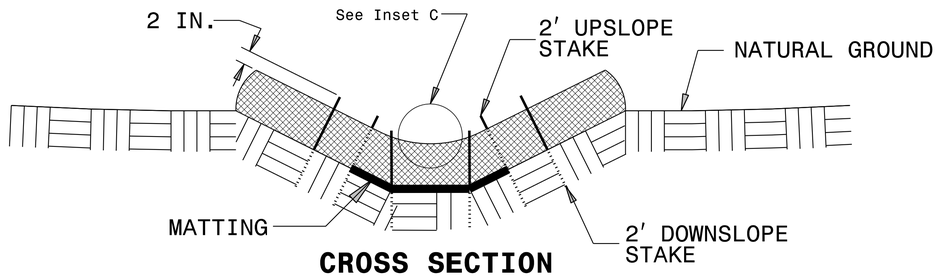
COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

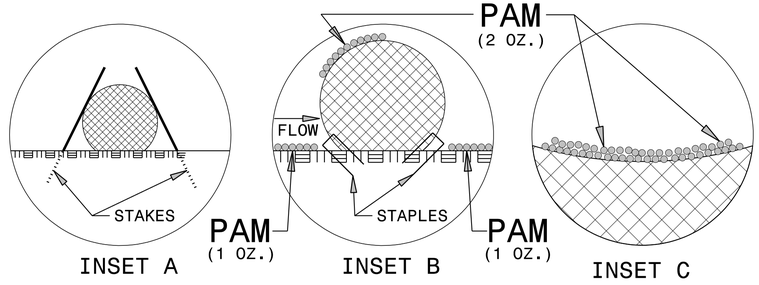
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

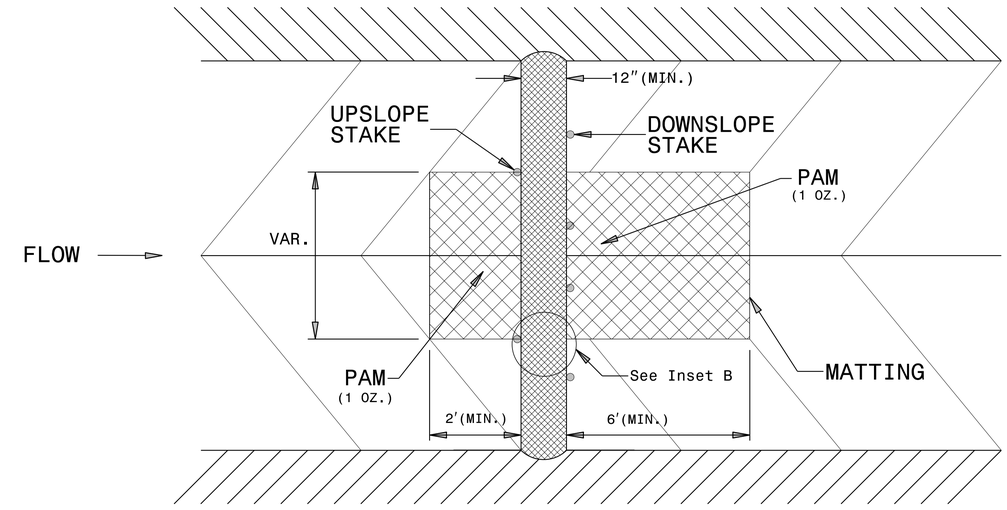
INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.

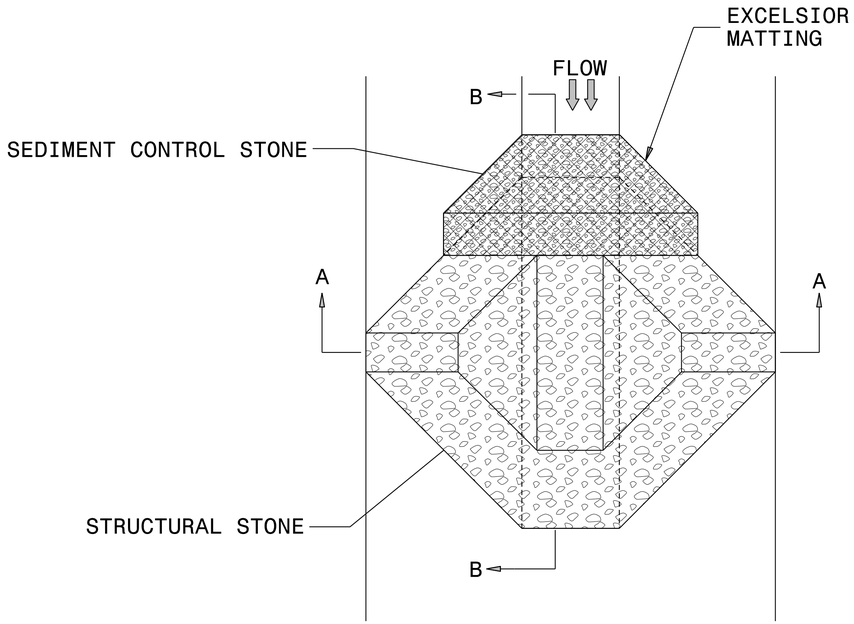




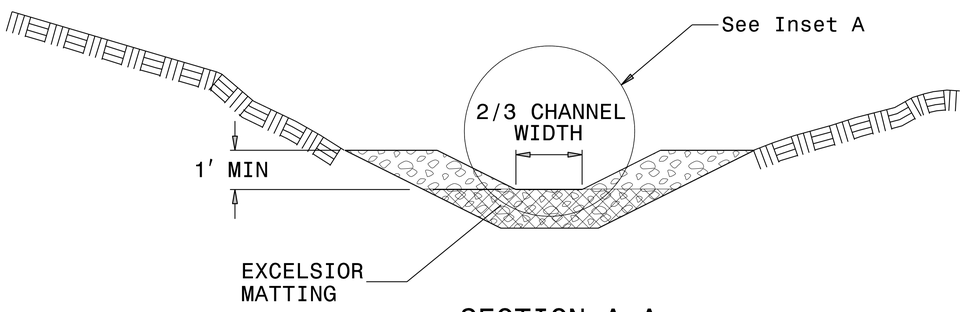
TOP VIEW

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	EC-2B
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)



PLAN



SECTION A-A

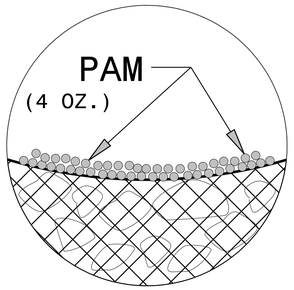
NOTES:

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

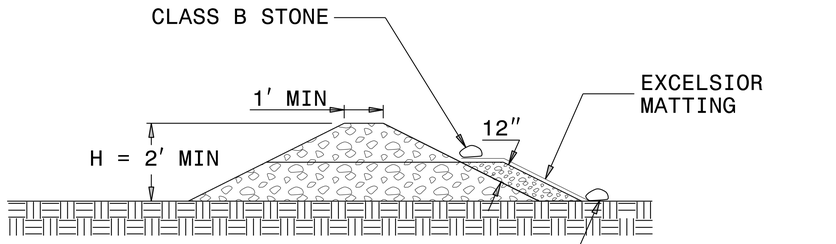
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



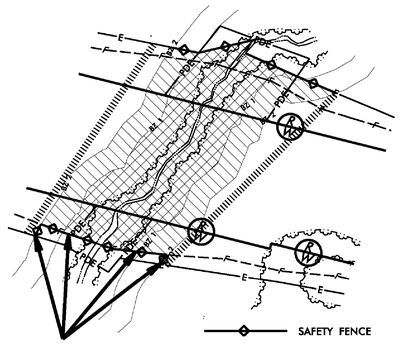
SECTION B-B

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	EC-2C
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SAFETY FENCE DETAILS

JURISDICTIONAL STREAM – RIPARIAN BUFFER ZONE*


PDE
PDE
PDE

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	EC-3
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

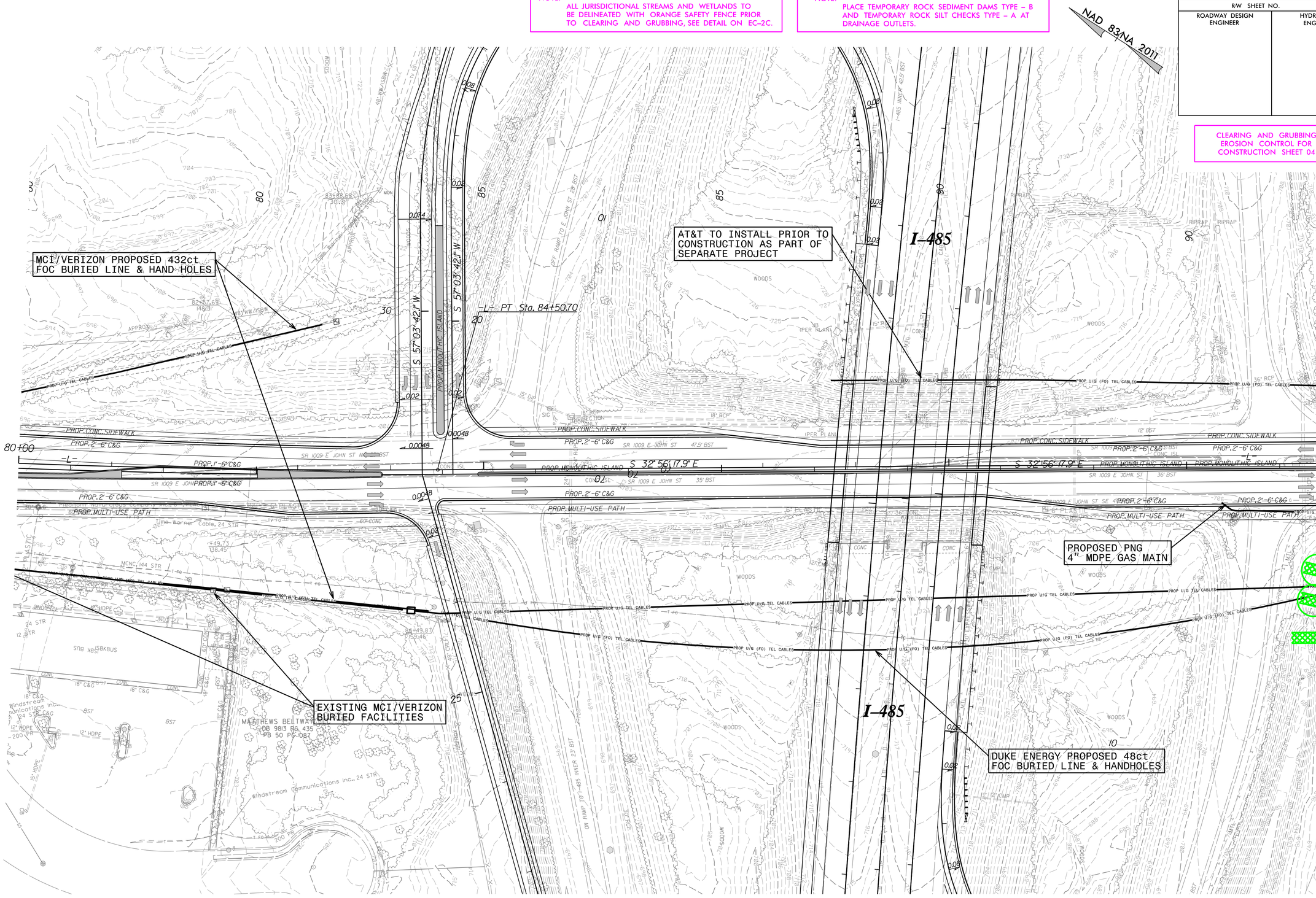
SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS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

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	EC-04/CONST.04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE:
ALL JURISDICTIONAL STREAMS AND WETLANDS TO BE DELINEATED WITH ORANGE SAFETY FENCE PRIOR TO CLEARING AND GRUBBING, SEE DETAIL ON EC-2C.

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 04



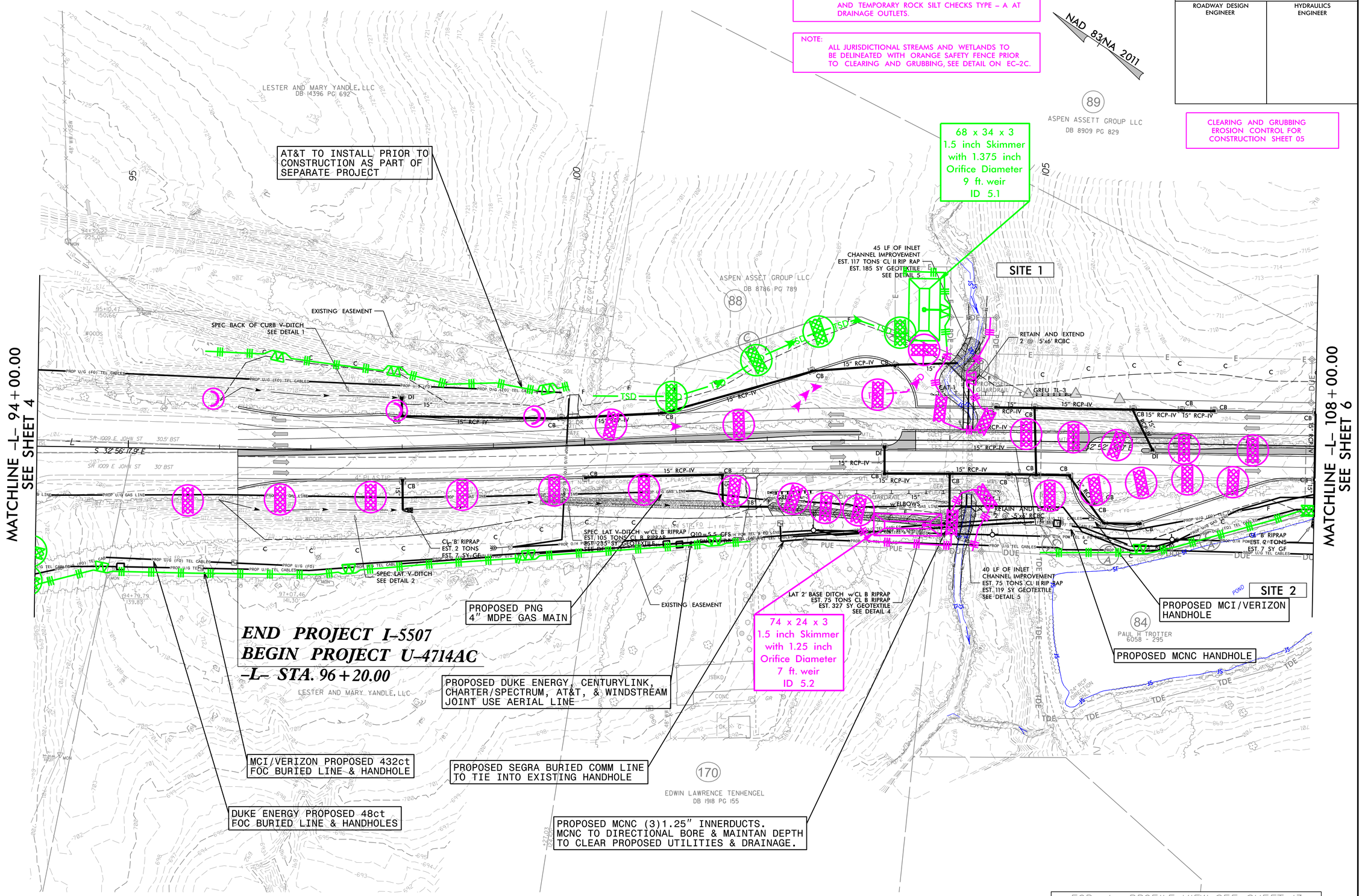
REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	EC-05/CONST.05
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

NOTE:
ALL JURISDICTIONAL STREAMS AND WETLANDS TO BE DELINEATED WITH ORANGE SAFETY FENCE PRIOR TO CLEARING AND GRUBBING, SEE DETAIL ON EC-2C.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 05



REVISIONS

05-10-2022: R/W REVISION: ADDED PUE AND CHANGED PDE TO DUE ON PARCEL 170; CHANGED PDE TO DUE AND ADDED ADDITIONAL DUE ON PARCEL 84. (BH)

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	EC-06/CONST.06
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

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

NOTE:
ALL JURISDICTIONAL STREAMS AND WETLANDS TO BE DELINEATED WITH ORANGE SAFETY FENCE PRIOR TO CLEARING AND GRUBBING, SEE DETAIL ON EC-2C.

TEMPORARY EARTH BERM
(Not to Scale)
Natural Ground
D = 2 Ft.
B = 1Ft.
•STABILIZE EARTH BERM•

NAD 83/NA 2011

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 06

MATCHLINE –L– 108+00.00
SEE SHEET 5

MATCHLINE –L– 122+00.00
SEE SHEET 7

PROPOSED DUKE ENERGY, CENTURYLINK, CHARTER/SPECTRUM, AT&T, & WINDSTREAM JOINT USE AERIAL LINE

DUKE ENERGY PROPOSED 48ct FOC/BURIED LINE & HANDHOLES

DUKE ENERGY PROPOSED 48ct FOC BURIED LINE & HANDHOLES

SITE 2

50 x 25 x 3
4 ft. weir
ID 6.3

58 x 29 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
6 ft. weir
ID 6.2

80 x 40 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
12 ft. weir
ID 6.1

–L– PRC Sta. 111+34.50

–L– PRC Sta. 117+10.14

89
ASPEN ASSETT GROUP LLC
DB 8909 PG 829

90
DUKE POWER CO
4147 - 321

86
CHARLESTON VENTURE LLC
DB 10765 PG 668

85
FOUR MORE INVESTMENTS LLC
DB 19420 PG 508
TRACT A

87
DUKE POWER CO
4147 - 915

SPEC BACK OF CURB V-DITCH w/CL B RIPRAP
EST. 59 TONS CL B RIPRAP
EST. 271 SY GEOTEXTILE
SEE DETAIL 6

LAT 5' BASE DITCH w/CL B RIPRAP
EST. 53 TONS CL B RIPRAP
EST. 210 SY GEOTEXTILE
SEE DETAIL 8

SPEC LAT 5' BASE DITCH
EST. 62 TONS CL B RIPRAP
EST. 250 SY GEOTEXTILE
SEE DETAIL 7

BURY INVERT 1.0'

REMOVE

S 32° 52' 08.0" E

SR 1009 E JOHN ST 25' BST

FLOATING TURBIDITY CURTAIN

CL 'B' RIPRAP
EST. 2 TONS
EST. 7 SY GF

LAT 6' BASE DITCH w/CL I RIPRAP
EST. 214 TONS CL I RIPRAP
EST. 369 SY GEOTEXTILE
SEE DETAIL 9

BURY INVERT 1.0'

SPEC BACK OF CURB 3' BASE DITCH w/CL I RIPRAP
EST. 471 TONS CL I RIPRAP
EST. 855 SY GEOTEXTILE
SEE DETAIL 10

Q10=13.8 CFS
S=4.0%
HW/D=1.09

Q10=12.8 CFS
S=1.85%
HW/D=0.95

SPEC BACK OF CURB 2' BASE DITCH w/CL B RIPRAP
EST. 230 TONS OF CL B RIPRAP
EST. 1015 SY OF GEOTEXTILE
SEE DETAIL 11

SPEC BACK OF CURB V-DITCH
SEE DETAIL 11

CL 'B' RIPRAP
EST. 2 TONS
EST. 7 SY GF

PROPOSED PNG
4" MDPE GAS MAIN

PROPOSED SEGRA BURIED COMM LINE

PROPOSED MCNC (3)1.25" INNERDUCTS.
MCNC WILL DIRECTIONAL BORE &
MAINTAN A DEPTH AS TO CLEAR ANY
PROPOSED UTILITIES & DRAINAGE.

FOUR MORE INVESTMENTS LLC
DB 19420 PG 508

JEFFREY WAYNE SPARKS
AND RICHARD ALAN SPARKS
DB 33348 PG 935

FOR –L– PROFILE VIEW, SEE SHEETS 13 & 14

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	EC-07/CONST.07
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 07

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

NOTE:
ALL JURISDICTIONAL STREAMS AND WETLANDS TO BE DELINEATED WITH ORANGE SAFETY FENCE PRIOR TO CLEARING AND GRUBBING, SEE DETAIL ON EC-2C.

REVISIONS

05-10-2022: R/W REVISION: REVISED DUE ON PARCELS 87, 91, 97, 99 AND 171; REVISED PUE ON PARCELS 91, 92, AND 93; REVISED R/W ON PARCELS 91, 93, 98, AND 99; REVISED TCE ON PARCELS 97 AND 98; REVISED TEMP. SLOPE EASEMENT ON PARCEL 98; ADDED TCE ON PARCEL 171; ADDED PUE ON PARCEL 170; ADDED 4 CURB AND GUTTER REFUGE ISLANDS AT THE FOUR CORNERS OF THE OLD MONROE ROAD /MCKEE ROAD INTERSECTION; REVISED INSERT TO SHOW AN INTERSECTION DETAIL; REVISED THE MCKEE ROAD DESIGN EAST OF OLD MONROE ROAD UNDER THE U-4713A MCKEE ROAD EXTENSION PROJECT. (BH)

11-17-2022: R/W REVISION: REVISED R/W U-4713A R/W ON PARCELS 94 AND 95. ADDED PDE AND TCE FOR U-4713A TO PARCELS 94, 95 AND 96. (BH)

03-22-2023: R/W AND DESIGN REVISION: ADDED TCE TO PARCELS 91 AND 92. CHANGED DUE TO PUE ON PARCELS 91, 92, AND 93; REVISED R/W ON PARCELS 91, 93, 98, AND 99; REVISED TCE ON PARCELS 97 AND 98; REVISED TEMP. SLOPE EASEMENT ON PARCEL 98; ADDED TCE ON PARCEL 171; REVISED PUE ON PARCEL 170; ADDED 4 CURB AND GUTTER REFUGE ISLANDS AT THE FOUR CORNERS OF THE OLD MONROE ROAD /MCKEE ROAD INTERSECTION; REVISED INSERT TO SHOW AN INTERSECTION DETAIL; REVISED THE MCKEE ROAD DESIGN EAST OF OLD MONROE ROAD UNDER THE U-4713A MCKEE ROAD EXTENSION PROJECT. (BH)
-Y25- STA. 21+00.00, AND WEST OF OLD MONROE ROAD TO SHOW AS DASHED FOR WORK UNDER THE U-4713A MCKEE ROAD EXTENSION PROJECT. (BH)

03-22-2023: DESIGN REVISION: SHIFTED U-TURN BULB ABOUT 50' TO THE EAST. (BH)

MATCHLINE –L– 122+00.00
SEE SHEET 6

MATCHLINE –L– 136+00.00
SEE SHEET 8

NAD 83/NA 2011

DUKE ENERGY PROPOSED 48ct FOC BURIED LINE & HANDHOLES

PROPOSED WINDSTREAM TO TIE EXISTING U/G LINES INTO JOINT USE AERIAL

PROPOSED MCNC (3)1.25" INNERDUCTS. MCNC WILL DIRECTIONAL BORE & MAINTAIN A DEPTH AS TO CLEAR ANY PROPOSED UTILITIES & DRAINAGE.

SITE 3

SITE 4

PROPOSED SEGRA BURIED COMM LINE

PROPOSED PNG 4" MDPE GAS MAIN

PROPOSED DUKE ENERGY, CENTURYLINK, CHARTER/SPECTRUM, AT&T, & WINDSTREAM JOINT USE AERIAL LINE

PROPOSED MCNC HANDHOLES NEAR PROPERTY LINE (-L- 131+68 67'R) & (-L- 133+10 66'R)

30 x 90 x 3
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
10 ft. weir
ID 7.1

PROPOSED SIGNAL

FOR -L- PROFILE VIEW, SEE SHEET 14

FOR -Y24-,-Y25- PROFILE VIEW, SEE SHEET 18

SEE SHEET R/W 7 FOR RIGHT OF WAY STATIONS AND OFFSETS

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	EC-08/CONST.08
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

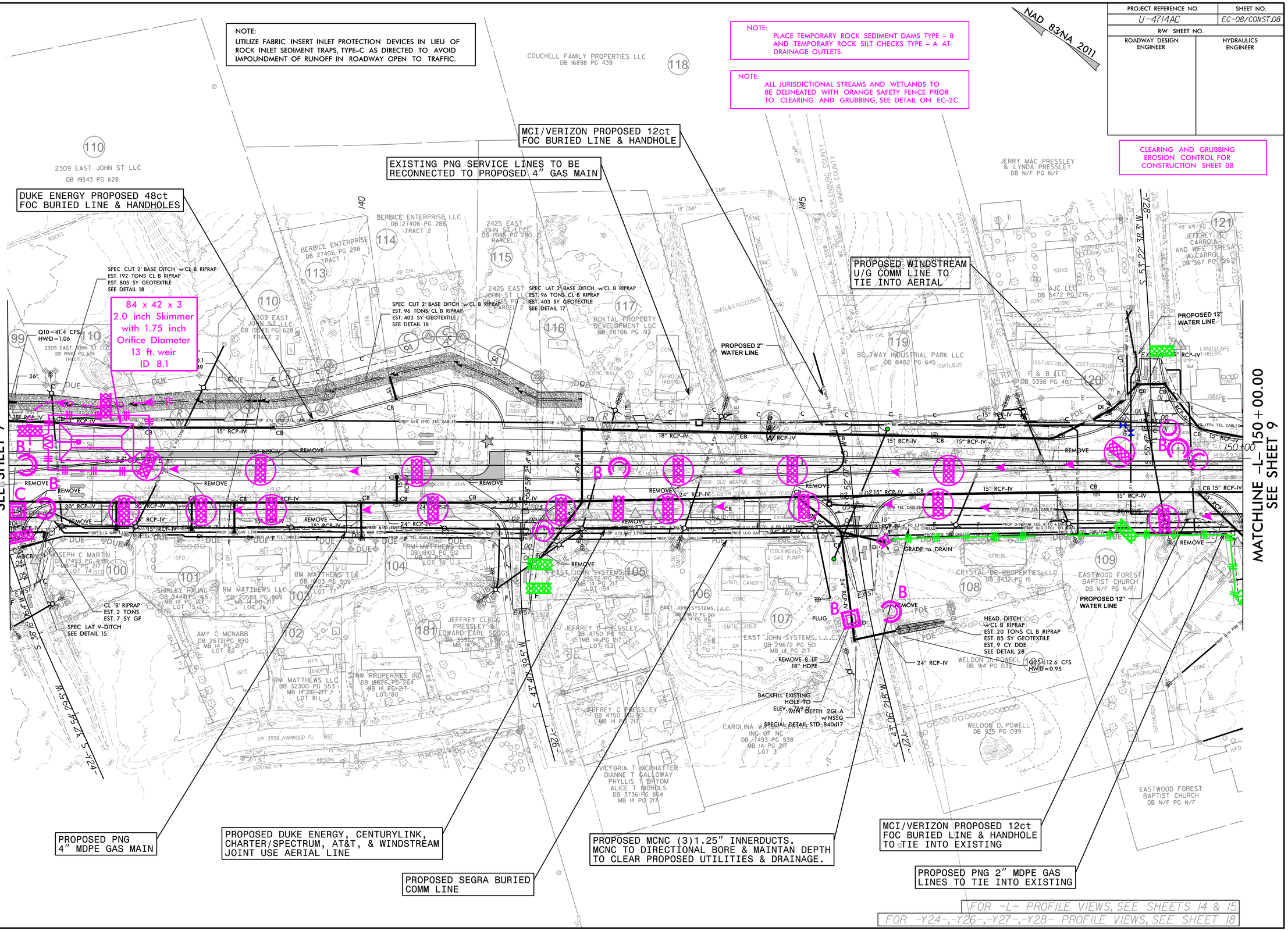
NAD 83/NA 2011

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

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

NOTE:
ALL JURISDICTIONAL STREAMS AND WETLANDS TO BE DELINEATED WITH ORANGE SAFETY FENCE PRIOR TO CLEARING AND GRUBBING, SEE DETAIL ON EC-2C.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 08



FOR -L- PROFILE VIEWS, SEE SHEETS 14 & 15
FOR -Y24-,-Y26-,-Y27-,-Y28- PROFILE VIEWS, SEE SHEET 18

REVISIONS

05-10-2022: R/W REVISION: REVISED DUE ON PARCELS 99, 100, 101, 102, 103, 104, 108, 109, 110, 111, 112, 116, AND 117; REVISED PUE ON PARCELS 105, 106, 107, AND 118; REVISED R/W ON PARCELS 99, 110, 111, AND 112; REVISED TCE ON PARCELS 109, 117, 118, AND 119; REVISED PDE ON PARCEL 120; ADDED PUE TO PARCELS 100, 108, 117; ADDED NEW PARCEL 181 WITH DUE AND NEW PARCEL 182 WITH PDE; REDUCED MEDIAN WIDTH FROM 30' TO 10.5' FROM -L- STA. 141+70 TO 150+00. (BH)

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	EC-09/CONST.09
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 09

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

MATCHLINE -L- 150+00.00
SEE SHEET 8

MATCHLINE -Y2- 14+50.00
SEE SHEET 9A

MATCHLINE -L- 164+00.00
SEE SHEET 10

MATCHLINE -Y2B- 13+00.00
SEE SHEET 9A

MATCHLINE -Y2A- 14+00.00
SEE SHEET 9A

RECENTLY INSTALLED SEGRA BURIED (3)1.25" HDPE FOC

PROPOSED SEGRA BURIED COMM LINE

PROPOSED PNG 2" MDPE GAS MAIN

PROPOSED 12" WATER LINE

EXISTING PNG SERVICE LINES TO BE RECONNECTED TO PROPOSED 2" GAS MAIN

PROPOSED SEGRA BURIED COMM LINE

DUKE ENERGY PROPOSED 48ct FOC BURIED LINE & HANDHOLES

DUKE ENERGY PROPOSED 48ct FOC BURIED LINE & HANDHOLES

PROPOSED PNG 2" MDPE GAS MAIN

SITE 5

PROPOSED PNG 2" MDPE GAS MAIN

PROPOSED MCNC HANDHOLE

PROPOSED MCNC (3)1.25" INNERDUCTS. MCNC WILL DIRECTIONAL BORE & MAINTAN A DEPTH AS TO CLEAR ANY PROPOSED UTILITIES & DRAINAGE.

PROPOSED DUKE ENERGY, CENTURYLINK, CHARTER/SPECTRUM, AT&T, & WINDSTREAM JOINT USE AERIAL LINE

PROPOSED MCNC HANDHOLE BETWEEN SIDEWALK & CURB (-L- 161+63 58'R)

PROPOSED SIGNAL

FOR -L- PROFILE VIEW, SEE SHEET 15

FOR -Y29-,-Y1-,-Y1A-,-Y2-,-Y2A-,-Y2B- PROFILE VIEWS, SEE SHEETS 19 & 21

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

NOTE:
ALL JURISDICTIONAL STREAMS AND WETLANDS TO BE DELINEATED WITH ORANGE SAFETY FENCE PRIOR TO CLEARING AND GRUBBING, SEE DETAIL ON EC-2C.

REVISIONS

05-10-2022: R/W REVISION: REVISED STALLINGS, POTTER / OLD MONROE ROAD INTERSECTION FROM A REDUCED CONFLICT INTERSECTION WITH NO THRU MOVEMENTS ON POTTER / STALLINGS ROAD AND THRU ONLY MOVEMENTS ON OLD MONROE ROAD TO A QUADRANT INTERSECTION WITH FULL MOVEMENTS ON POTTER / STALLINGS ROAD AND THRU ONLY MOVEMENTS ON OLD MONROE ROAD. REDUCED THE MEDIAN WIDTH ON OLD MONROE ROAD FROM 30' TO 10.5' REMOVED U-TURN BULB FROM PARCELS 122 AND 123. ADDED RETAINING WALL TO PARCEL 128. REVISED R/W AND EASEMENTS ON ALL PARCELS TO ACCOMMODATE DESIGN CHANGES. (BH)

12-22-2022: R/W REVISION: CHANGED DUE TO AUE ON PARCEL 125 FROM -L- STA. 156+37.00 TO 158+96.81. ALSO ADDED PDE TO PARCEL 125 FOR THE CATCH BASIN AT -L- 157+50.00. (BH)

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	EC-10/CONST.09A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 09A

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

NOTE:
ALL JURISDICTIONAL STREAMS AND WETLANDS TO BE DELINEATED WITH ORANGE SAFETY FENCE PRIOR TO CLEARING AND GRUBBING, SEE DETAIL ON EC-2C.

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

NAD 83/NA 2011

-Y2- POT Sta. 17+37.47

TOWN OF STALLINGS
DB N/F PG N/F
172A

20' UTILITY EASMENT DB 1466 PG 737

25FT BUS POLICE

PROP D/H POW TEL & FO LINES

PROP U/G TEL & FO LINES

EXIST. 12" W

-Y2- +19.00
2000 LF 12" W

REMOVE 36" C/W

CL/N RIPRAP
EST. 35 TONS
EST. 30 SY GF

172
TOWN OF STALLINGS
DB 421

10

PROP D/H POW 24" RCP-III

CB

RCP-IV

3' TAIL DITCH
EST. DDE=8' CY
SEE DETAIL 27
SLOPE=0.7%

SPEC BACK OF CURB V-DITCH
SEE DETAIL 14

30" RCP-IV

PUE

MATCHLINE -Y2- 14+50.00
SEE SHEET 9

FOR -Y2- PROFILE VIEW, SEE SHEET 19

FOR -Y2A-,-Y2B- PROFILE VIEWS, SEE SHEET 21

MATCHLINE -Y2A- 14+00.00
SEE SHEET 9

MATCHLINE -Y2B- 13+00.00
SEE SHEETS 9 & 10

SPEC. LAT V-DITCH
SEE DETAIL 15

-Y2B-

PROPOSED 16" WATER LINE

PROPOSED 12" WATER LINE

SPEC. LAT V-DITCH
SEE DETAIL 30

129
TOWNCENTER, LLC
DB 7269 PG 25

ATLANTIC DEVELOPMENT INC.
DB 4188 PG 869

MONA-T, LLC
DB 4862 PG 239

COLLEEN B. TEETER
AND HUSBAND,
HOWARD O. TEETER
DB 761 PG 428

178
HOWARD ODELL TEETER
DB D139 PG 1230

PAUL KATOPODIS &
LOULA KATOPODIS
DB 7291 PG 909

PAUL KATOPODIS &
LOULA KATOPODIS
DB 7292 PG 025

MARGUERITE ADELE MAHAN
DB 4652 PG 697

175
4390 POTTER RD, LLC
DB 7262 PG 321

176
T & Y MATTHEWS, LLC
DB 7245 PG 884

177
H & J PROPERTIES
OF UNION COUNTY LLC
DB 3894 PG 354

BANDAL P. PULLEN
BONNIE L. WILLIAMS
DB 926 PG 724

S 83°46'28.8" E

S 6°13'32.2" W

REMOVE 108' LF 15" RCP

RETAIN

REVISIONS

05-10-2022: R/W REVISION: ADDED QUADRANT ROADWAY SOUTH WEST OF STALLINGS /POTTER /OLD MONROE ROAD INTERSECTION TO CONNECT OLD MONROE ROAD TO POTTER ROAD. REVISED STALLINGS ROAD DESIGN TO TIE IN AT -Y2- STA. 16+75.00. REVISED R/W AND EASEMENTS ON ALL PARCELS TO ACCOMMODATE DESIGN CHANGES. (BH)

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	EC-11/CONSTJO
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 10

NAD 83/NA 2011

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

NOTE:
ALL JURISDICTIONAL STREAMS AND WETLANDS TO BE DELINEATED WITH ORANGE SAFETY FENCE PRIOR TO CLEARING AND GRUBBING, SEE DETAIL ON EC-2C.

PROPOSED DUKE ENERGY, CENTURYLINK, CHARTER/SPECTRUM, AT&T, & WINDSTREAM JOINT USE AERIAL LINE

PROPOSED SEGRA BURIED COMM LINE TO TIE INTO EXISTING LINE

PROPOSED SEGRA BURIED COMM LINE TO TIE INTO EXISTING HANDHOLE

SITE 6

SITE 5

SITE 7

SAFETY FENCE

PROPOSED PNG 2" MDPE GAS

PROPOSED MCNC HANDHOLE BETWEEN SIDEWALK & CURB (-L- 173+46 43R)

PROPOSED MCNC (3)1.25" INNERDUCTS. MCNC TO DIRECTIONAL BORE & MAINTAN DEPTH TO CLEAR PROPOSED UTILITIES & DRAINAGE.

MATCHLINE -L- 164+00.00 SEE SHEET 9

MATCHLINE -Y2B- 13+00.00 SEE SHEET 9A

MATCHLINE -L- 178+00.00 SEE SHEET 11

HISTORIC PROPERTY

SPEC BACK OF CURB V-DITCH SEE DETAIL 14

3' BASE DITCH EST. DDE=17 CY SEE DETAIL 22 SLOPE=0.1%

CL 'I' RIPRAP EST. 15 TONS EST. 30 SY GF

PROPOSED 16" WATER LINE

PROPOSED 12" WATER LINE

EXISTING SERVICE LINE TO BE RECONNECTED TO PROPOSED 4" MAIN

REMOVE 66' OF 10" HDPE

SPEC. LAT V-DITCH SEE DETAIL 30

SPEC BACK OF CURB V-DITCH SEE DETAIL 14

CL 'B' RIPRAP EST. 2 TONS EST. 7 SY GF

PROPOSED 4" SEWER LINE

SPEC. LAT V-DITCH W/CL B RIPRAP EST. 90 TONS EST. 190 SY GF SEE DETAIL 20

Q10 = 0.20 CFS HW/D = 0.18

SPEC LAT V-DITCH SEE DETAIL 15

TIE TO EXISTING DITCH

PROPOSED 8" WATER LINE

PROPOSED 4" SEWER LINE

FUNDERBURK FOUR, LLC DB 5945 PG 334 TRACT 1

CAROLYN M. FUNDERBURK DB 792 PG 742

ALLINGS TOAD 209, LLC DB 7054 PG 569

ALPHA OMEGA LAND DEVELOPMENT INC. DB 4188 PG 869

COLLEEN B. TEETER AND HUSBAND, HOWARD O. TEETER DB 761PG 428

MONA-T, LLC DB 4862 PG 239

KATOPODIS & A KATOPODIS 729I PG 909

GLORIA WILLIAMS SHERIN AND HUSBAND DAVID MICHAEL SHERIN DB 5265 PG 804

GLORIA WILLIAMS SHERIN AND HUSBAND DAVID MICHAEL SHERIN DB 5265 PG 804 TRACT 2

JUSTIN M. COLE AND WIFE, KELLY A. COLE DB 8448 PG 822 PB 4 PG 189 LOT 2

JUSTIN M. COLE AND WIFE, KELLY A. COLE DB 8448 PG 822 PB 4 PG 189 LOT 1

DENNIS W. SCHILL AND WIFE, GRACE V. SCHILL DB 6676 PG 0002

BONNIE H. THORNTON DB 1597 PG 500

AARON D. KYLE AND SPOUSE, KYLE ANN RAINEY DB 6411 PG 684

APRIL L. RUST DB 4467 PG 535

DMITRIUS SELCKIS AND WIFE, MARY A. SELCKIS DB 6688 PG 639

AIDA CAPELLA DB 4554 PG 152

ALYSSA WHISNANT DB 7883 PG 640

PETER V. PASQUA DB 7612 PG 685

YAMASA CO., LTD DB 7517 PG 228

CLAUDIA SUE KOZLOWSKI DB 7900 PG 428

REVISIONS

05-10-2022: R/W REVISION: ADDED NEW ROADWAY CONNECTION SOUTH WEST OF STALLINGS /POTTER /OLD MONROE INTERSECTION AND ADDED RELATED R/W AND EASEMENTS. TAPERED MEDIAN WIDTH ON OLD MONROE ROAD FROM 30' TO 10.5' REMOVED U-TURN BULB ON PARCEL 143. REVISED R/W AND EASEMENTS ON ALL PARCELS TO ACCOMMODATE DESIGN CHANGES (BH)

07-29-2022: R/W REVISION: ADDED PARCEL NUMBER 145A AND ADDED PROPERTY OWNER NAME "PARKSIDE AT STALLINGS TOWNHOME ASSOCIATION, INC." (BH)

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	EC-12/CONST JI
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 11

REVISIONS

05-10-2022: R/W REVISION: ADDED NEW PARCELS 161A AND 167A WITH PUE; ADDED PUE TO PARCELS 150 AND 151; REVISED TCE ON PARCELS 161 AND 163; REVISED PUE ON PARCELS 161, 162, 163, AND 167.
06-2-2022: R/W REVISION: ADDED PARCEL NUMBERS 163Z AND 167Z. (BH)
11-17-2022: R/W REVISION: CHANGED THE TCE ON PARCELS 155, 156 AND 157 TO DUE AND CHANGED THE PUE ON PARCEL 155 TO DUE. (BH)

MATCHLINE –L– 178+00.00
SEE SHEET 10

MATCHLINE –L– 192+00.00
SEE SHEET 12

PROPOSED CHARTER/SPECTRUM BURIED LINE TO TIE INTO AERIAL

SITE 9

PROPOSED WINDSTREAM TELEPHONE PED & BURIED COMM LINES

PROPOSED SEGRA BURIED COMM LINES

PROPOSED DUKE ENERGY, CENTURYLINK, CHARTER/SPECTRUM, AT&T, & WINDSTREAM JOINT USE AERIAL LINE

PROPOSED MCNC (3)1.25" INNERDUCTS. MCNC WILL DIRECTIONAL BORE & MAINTAN A DEPTH AS TO CLEAR ANY PROPOSED UTILITIES & DRAINAGE.

PROPOSED PNG 6"GAS MAIN

SITE 8

SAFETY FENCE

HEAD DITCH
EST. 8 CY DDE
SEE DETAIL 23

6' TAIL DITCH
EST. 43 TONS CL I RIPRAP
EST. 77 SY GEOTEXTILE
EST. DDE=23 CY
SEE DETAIL 24

PROPOSED 8" WATER LINE

PROPOSED 16" WATER LINE

PROPOSED 4" SEWER LINE
Q=0.60 CFS
S=2.90%
HW/D=0.2

PROPOSED 8" WATER LINE

PROPOSED 4" SEWER LINE

PROPOSED 4" SEWER LINE

PROPOSED 8" WATER LINE

SPEC LATERAL V DITCH
SEE DETAIL 29

SPEC BACK OF CURB V-DITCH
SEE DETAIL 14

PROPOSED 4" SEWER LINE

PROPOSED 4" SEWER LINE

PROPOSED PNG 6"GAS MAIN

66 x 33 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
8 ft. weir
ID 11.1

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN LIEU OF ROCK INLET SEDIMENT TRAPS, TYPE-C AS DIRECTED TO AVOID IMPOUNDMENT OF RUNOFF IN ROADWAY OPEN TO TRAFFIC.

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

NOTE:
ALL JURISDICTIONAL STREAMS AND WETLANDS TO BE DELINEATED WITH ORANGE SAFETY FENCE PRIOR TO CLEARING AND GRUBBING, SEE DETAIL ON EC-2C.

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	EC-13/CONST12
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83/NA 2011

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 12

REVISIONS

05-10-2022: R/W REVISION: REVISED DUE ON PARCEL 165 (BH)

MATCHLINE –L– 192+00.00
SEE SHEET 11

END TIP PROJECT U-4714AC
BEGIN TIP PROJECT U-4714B
–L– STA. 193+50.61

PROPOSED DUKE ENERGY, CENTURYLINK, CHARTER/SPECTRUM, AT&T, & WINDSTREAM JOINT USE AERIAL LINE

PROPOSED SEGRA BURIED COMM LINE & HANDHOLE

PROPOSED AT&T BURIED COMM LINE

PROPOSED PNG 6" GAS MAIN

PROPOSED MCNC (3)1.25" INNERDUCTS & TELEPHONE PED. MCNC WILL DIRECTIONAL BORE & MAINTAN A DEPTH AS TO CLEAR ANY PROPOSED UTILITIES & DRAINAGE.

TIE TO STR #0401
TIP PROJ. U-4714B
DESIGNED BY OTHER

TIE TO STR #0408
TIP PROJ. U-4714B
DESIGNED BY OTHER

PROPOSED 8" WATER LINE

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

NOTE:
ALL JURISDICTIONAL STREAMS AND WETLANDS TO BE DELINEATED WITH ORANGE SAFETY FENCE PRIOR TO CLEARING AND GRUBBING, SEE DETAIL ON EC-2C.

SIKES VAN HENERY AND LYNETTE G PB A PG 50B LOT 10

LUKENS JUDY E DB 6706 PG 257 PB A PG 50B LOT 11

RUSSELL DANNY K AND VIRGINIA DB N/F PG N/F PB A PG 50B LOT 12

PHIFER BRENDA E DB N/F PG N/F PB A PG 50B LOT 13

FREDERICK M. BUNICK AND WIFE PATRICIA G. GABRIEL-BURNICK DB 1639 PG 0293 PB A PG 50B LOT 14

KRISTIN AREY DB 6975 PG 677 PB A PG 50B LOT 15

ERIK K ROWLETT AND WIFE ISABEL RUEDA ABAD DB 6005 PG 222

ROBERT M. SULLIVAN AND WIFE SHARON L. SULLIVAN DB 1653 PG 327

MATTHEW SMITH DB 7247 PG 709 PB F PG 844

MARK DAVID BROOME DB 7235 PG 204

JACEK RUDZIEWICZ DANKA RUDZIEWICZ DB 3792 PG 326 PB F PG 844

DAVID L RAY SUSAN A RAY DB 1925 PG 671 PB F PG 844

CHRISTINE S GOODSON DAVIS A GOODSON DB 3187 PG 441 PB F PG 844

KIMBERLY A ELSASSER DB 3681 PG 307 PB F PG 844

KORRY L HUMPHREY DB 6018 PG 858 PB F PG 844

MORNINGSIDE MEADOWS HOMEOWNERS ASSOCIATION, INC DB 1414 PG 136 PB F PG 844

MORNINGSIDE MEADOWS HOMEOWNERS ASSOCIATION, INC DB 1414 PG 136

STALLINGS POINTE, LLC DB 5887 PG 131 PB 7 PG 37A LOT 4

DAWN M. SHERIN DB 4555 PG 131 PB 7 PG 37A LOT 4

317 PROPERTIES, LLC DB 5887 PG 131 PB 7 PG 37A LOT 3

ALLEN POLE DB 1416 PG 344 PB 7 PG 37A LOT 2

DANNY F. DUNN AND WIFE JENNIFER J. DUNN DB 4142 PG 876 PB 7 PG 37A LOT 1

JAMES HAMILTON TURNER, SR DB 3524 PG 722

ANTONIOS K. PANOU DB 858 PG 500

ANTONIOS K. PANOU DB 911 PG 697

BRUCE R. MARX AND SPOUSE, LINDA L. MARX DB 5944 PG 570

WILLIAM LARRY ALEXANDER DB 7503 PG 411

DAMON S. BUTCHER AND WIFE, TIFFANY M. BUTCHER DB 1349 PG 699

WILLIAM F. DEMOSS AND NANCY B. DEMOSS DB 7151 PG 678

LINA M. ALEXANDER DB 1169 PG 823

MAXWELL RICHARD MCWATERS DB 7436 PG 537

HAZEL FOSTER DB N/F PG N/F

RICHARD P. BROOME DB 365 PG 477

FERC B. CARTON AND TIARA V. CARTON

FUQUIUM PROPERTY MANAGEMENT, LLC DB 4772 PG 275

YAMASA CO., LTD. DB 7531 PG 455

2017-BORROW DB 7095 PB A PG (EXHIBIT ...

S 38°12'43.5" E

Duke Energy Progress

Piedmont Natural Gas Company Inc

Pledmont Natural Gas Company Inc

MCNC, STRT

Union Co. Public Works

09/08/99

TIP PROJECT: U–4714AC

CONTRACT:

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

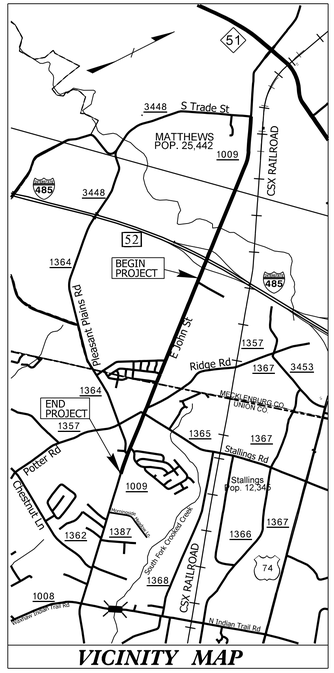
UTILITIES BY OTHERS PLANS
MECKLENBURG & UNION COUNTY

T.I.P. NO.	SHEET NO.
U–4714AC	UO–1

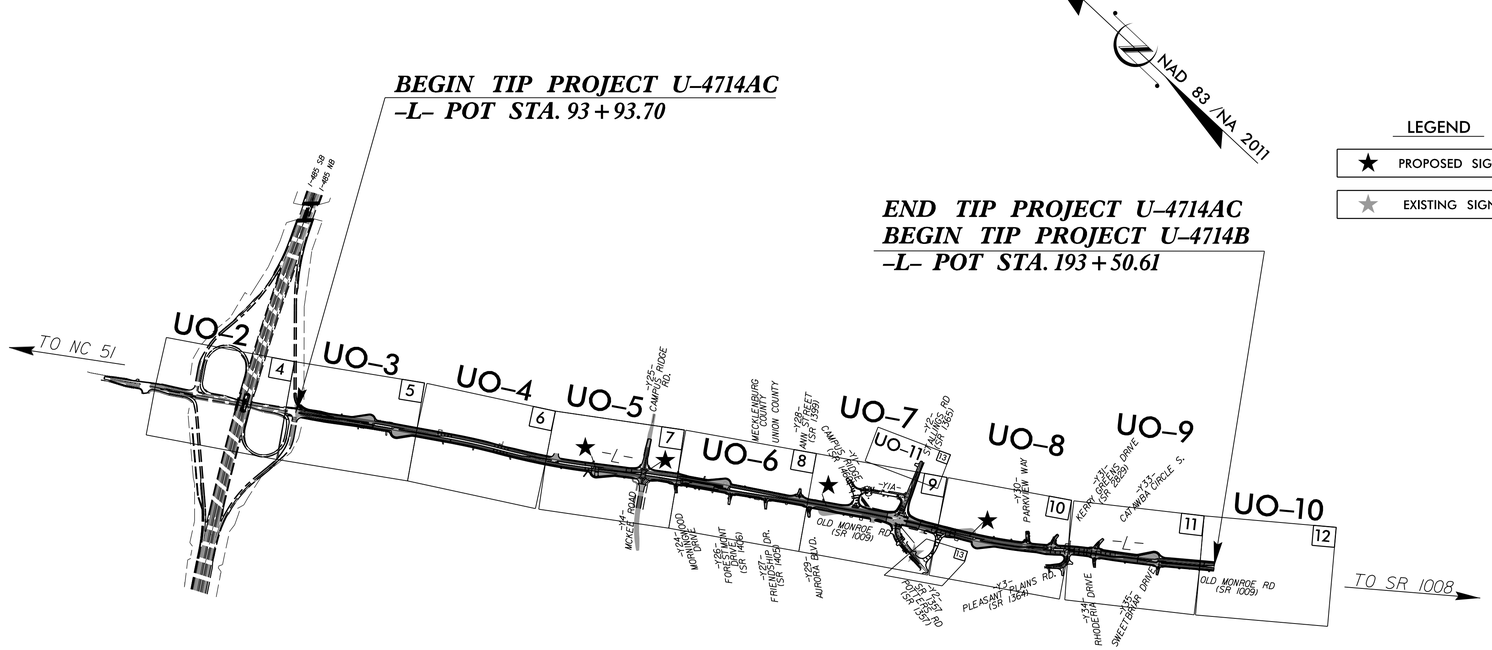
NOTE:
ALL UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR UTILITY WORK SHOWN ON THIS SHEET.

LOCATION: SR 1009 (JOHN STREET\OLD MONROE ROAD)
FROM EAST OF I–485 INTERCHANGE TO
WEST OF MORNINGSIDE MEADOW LANE

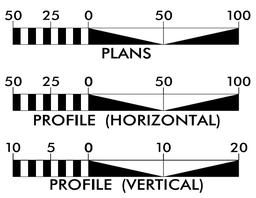
TYPE OF WORK: RELOCATION OF AERIAL & BURIED COMMUNICATION FACILITIES, AERIAL POWER FACILITIES, & BURIED GAS FACILITIES



VICINITY MAP



GRAPHIC SCALES



INDEX OF SHEETS

SHEET NO.:	*DESCRIPTION:*
UO–1	*TITLE SHEET*
UO–02 THRU UO–10	*UBO PLAN SHEETS*

UTILITY OWNERS WITH CONFLICTS

(A) POWER – DUKE ENERGY
(B) GAS – PIEDMONT NATURAL GAS
(C) COMMUNICATION – AT&T
(D) COMMUNICATION – MCNC
(E) COMMUNICATION – WINDSTREAM
(F) COMMUNICATION – CHARTER
(G) COMMUNICATION – CENTURYLINK
(H) COMMUNICATION – SEGRA

PREPARED IN THE OFFICE OF:

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DANIEL ALLEN — *PROJECT UTILITY DESIGNER*

DIVISION OF HIGHWAYS
UTILITIES UNIT
1555 MAIL SERVICES CENTER
RALEIGH NC 27699–1555
PHONE (919) 707–6690
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AMY D. YORK — *WESTERN UTILITIES MANAGER*
DONALD HAMPTON — *REGIONAL UTILITIES ENGINEER*
JON E. GAILLARD — *REGIONAL UTILITY COORDINATOR*
STEVE C. TREXLER — *UTILITIES COORDINATOR*

21-FEB-2022 14:22
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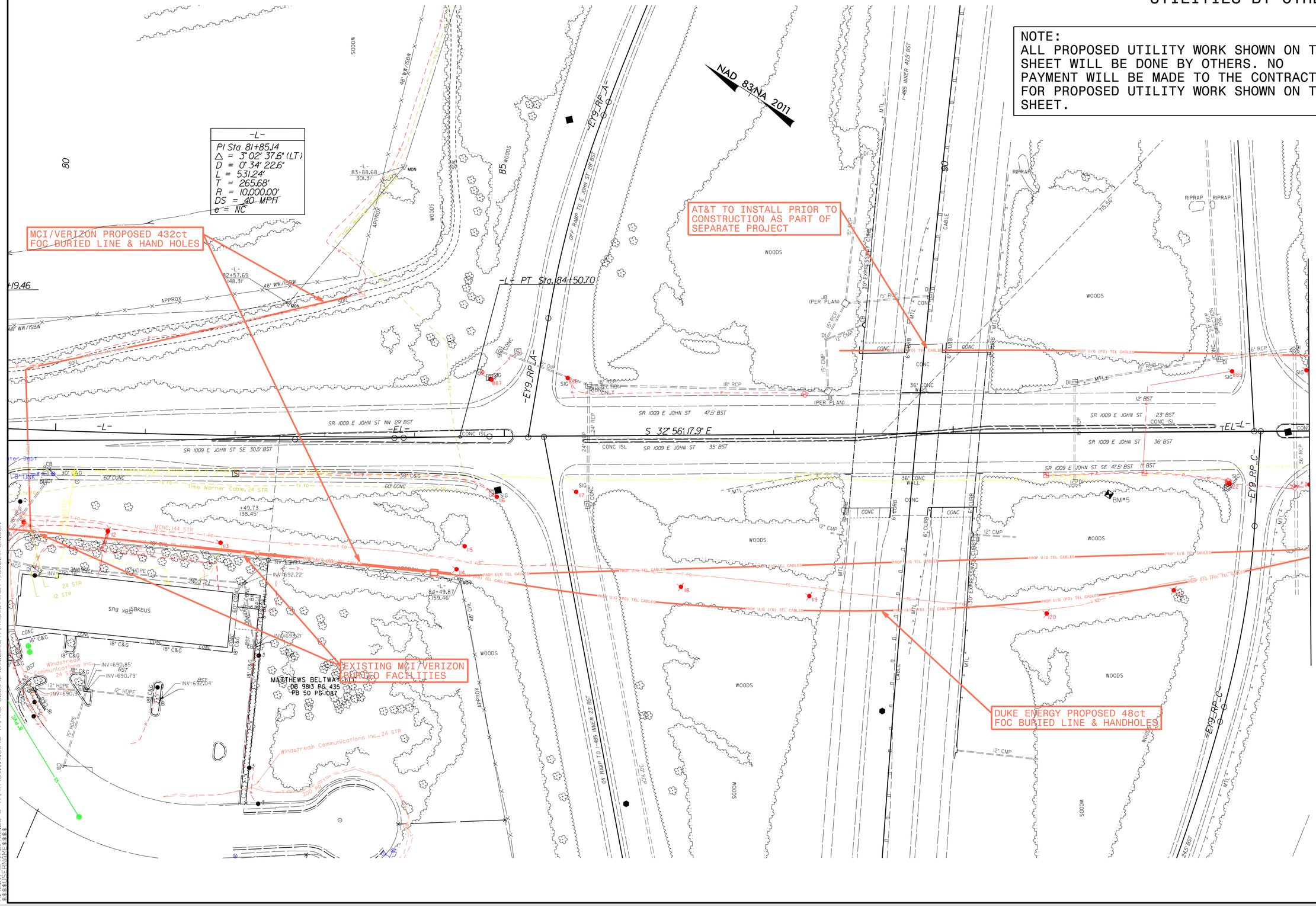
PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	UO-02

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.



MATCHLINE -L- 94+00.00
SEE SHEET UO-03

8/17/99

09-AUG-2023 09:07
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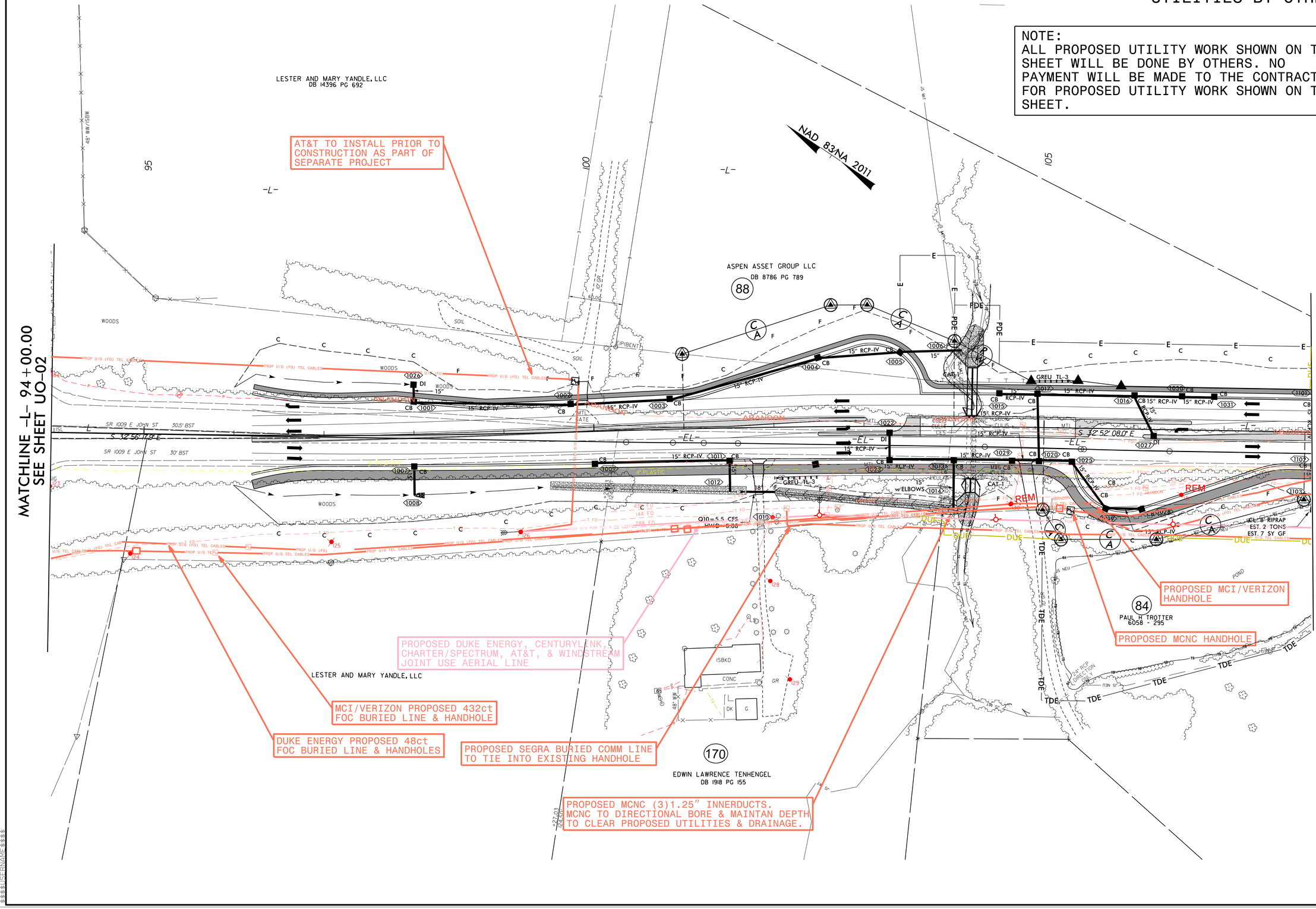
8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	UO-03

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.



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PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	UO-04

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.

NAD 83/NA 2011

MATCHLINE –L– 108+00.00
SEE SHEET UO-03

MATCHLINE –L– 122+00.00
SEE SHEET UO-05

PROPOSED DUKE ENERGY, CENTURYLINK, CHARTER/SPECTRUM, AT&T, & WINDSTREAM JOINT USE AERIAL LINE

DUKE ENERGY PROPOSED 48ct FOC BURIED LINE & HANDHOLES

DUKE ENERGY PROPOSED 48ct FOC BURIED LINE & HANDHOLES

PROPOSED SEGRA BURIED COMM LINE

PROPOSED MCNC (3)1.25" INNERDUCTS. MCNC WILL DIRECTIONAL BORE & MAINTAIN A DEPTH AS TO CLEAR ANY PROPOSED UTILITIES & DRAINAGE.

89
ASPEN ASSETT GROUP LLC
DB 8909 PG 829

90
DUKE POWER CO
4147 - 921

86
J & M INVESTMENTS LLC
DB 19082 PG 796

85
FOUR MORE INVESTMENTS LLC
DB 19420 PG 508
TRACT A

CHARLESTON VENTURE LLC
DB 10765 PG 668

87
DUKE POWER CO
4147 - 915

FOUR MORE INVESTMENTS LLC
DB 19420 PG 508

JEFFREY WAYNE SPARKS
AND RICHARD ALAN SPARKS
DB 33348 PG 935

CL 'B' RIPRAP
EST. 2 TONS
EST. 7 SY GF

S 32° 52' 08.0" E
148.82'
71.76'

36" INC.
15" RCP-IV
48" WW & ISBW
TB 2GI
REMOVE
REM
DUE
TDE
ISBMD
CANOPY
ISFD
MH
CB
HW
BM#6
FLAGPOLE
35 ELEC 48' MTL POSTS

8/17/99

28-AUG-2023 11:47
68.207.247.148
U-4714A\Utilities\U-4714AC_UbOs\290_004_U4714AC_UT_RDY6_U004_PSH.DGN
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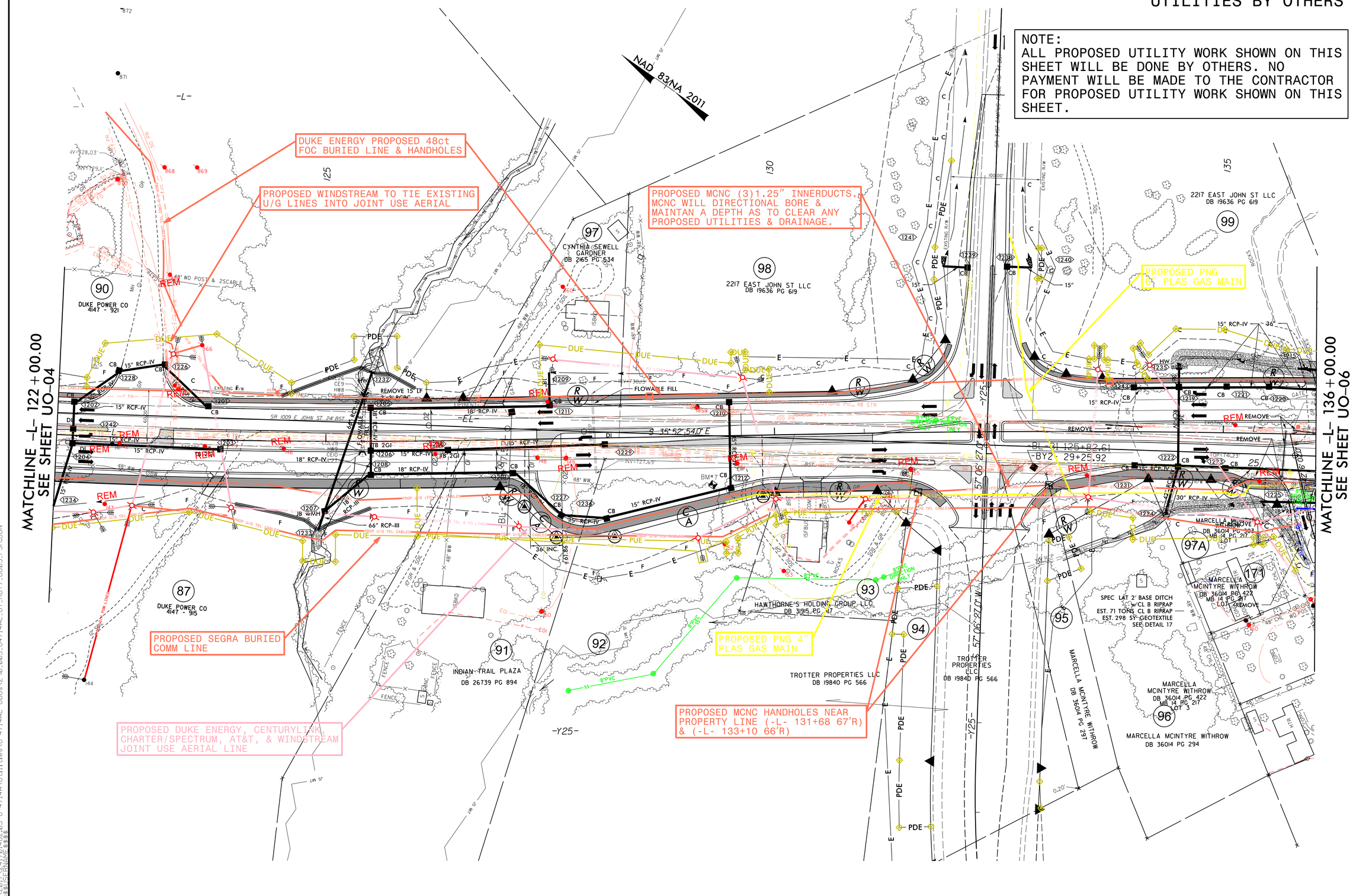
PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	UO-05

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.



8/17/99

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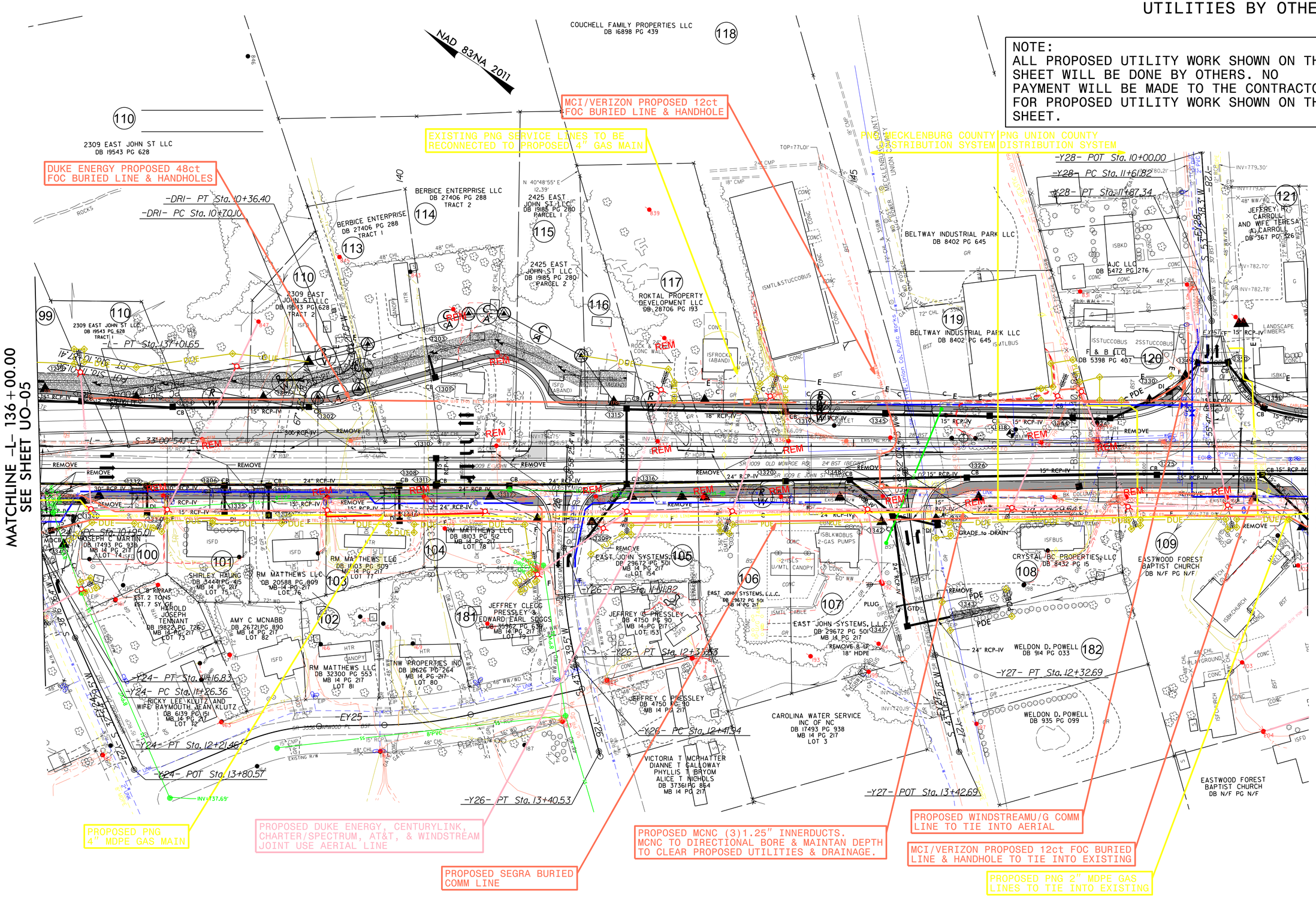
PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	UO-06

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.



8/17/99

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$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	UO-07

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.

NAD 83/NA 2011

MATCHLINE -Y2- 14+50.00 SEE UO-11

MATCHLINE -L- 150+00.00 SEE SHEET UO-06

MATCHLINE -L- 164+00.00 SEE SHEET UO-08

MATCHLINE -Y2B- 13+00.00 SEE UO-11

MATCHLINE -Y2A- 14+00.00 SEE UO-11

RECENTLY INSTALLED SEGRA BURIED (3)1.25" HDPE FOC

PROPOSED SEGRA BURIED COMM LINE

PROPOSED PNG 2" MDPE GAS MAIN

EXISTING PNG SERVICE LINES TO BE RECONNECTED TO PROPOSED 2" GAS MAIN

PROPOSED SEGRA BURIED COMM LINE

DUKE ENERGY PROPOSED 48ct FOC BURIED LINE & HANDHOLES

DUKE ENERGY PROPOSED 48ct FOC BURIED LINE & HANDHOLES

PROPOSED PNG 2" MDPE GAS MAIN

PROPOSED PNG 2" MDPE GAS MAIN

WINDSTREAM & DUKE PROPOSED PUE ALONG AURORA BLVD

WINDSTREAM PROPOSED PUE NEEDED TO RELOCATE BELT LLC

PROPOSED MCNC HANDHOLE

PROPOSED MCNC (3)1.25" INNERDUCTS. MCNC WILL DIRECTIONAL BORE & MAINTAN A DEPTH AS TO CLEAR ANY PROPOSED UTILITIES & DRAINAGE.

PROPOSED MCNC HANDHOLE BETWEEN SIDEWALK & CURB (-L- 161+63 58'R)

PROPOSED DUKE ENERGY, CENTURYLINK, CHARTER/SPECTRUM, AT&T, & WINDSTREAM JOINT USE AERIAL LINE

METROLINA MEDICAL PROPERTIES LLC DB 4307 PG 225

TOWN OF STALLINGS DB 8353 PG 245

SAFELITE ELECTRIC, INC DB 169 PG 171

MARK S. SIMPSON AND WIFE CAROL L. SIMPSON DB 5837 PG 550

MARIA COPSS TASPOULOS AND HUSBAND, NICHOLAS C. TASPOULOS A ONE-HALF UNDIVIDED INTEREST AS TENANTS BY THE ENTIRETY AND PETER TASPOULOS AND HUSBAND, CHRISTOS TASPOULOS THE OTHER ONE-HALF UNDIVIDED INTEREST AS TENANTS BY THE ENTIRETY DB 1792 PG 860

JOHNSON WALTON CURTIS & HESTA T DB N/F PG N/F

KIMBERLY B. CROWE DB 659 PG 042

CAROLINA CONCRETE, INC. DB 4540 PG 652 DB J PG 970

LR & FR, LLC DB 3409 PG 898

STALLINGS TOAD 209, LLC DB 7054 PG 569

TIMOTHY & RANDALL DUCKWORTH DB N/F PG N/F

EDWARD R. SQUIRES DB 6007 PG 462

THE POINTE AT CAMPUS RIDGE, LLC DB 7098 PG 810

WASH ONE, LLC C/O THE MOSER GROUP DB 3364 PG 087

RAINBOW TROUT PROPERTIES, LLC C/O THOMAS B MCELWEE DB 1579 PG 65 TRACT I

STEGALL AND COMPANY INC. DB N/F PG N/F

GILBERTO HERNANDEZ AND WIFE MARICELA CASTILLO MORAN DB 5353 PG 523

JANET GUION GRAHAM DB 4979 PG 676

GUION FAMILY LP DB N/F PG N/F

28-AUG-2023 12:04
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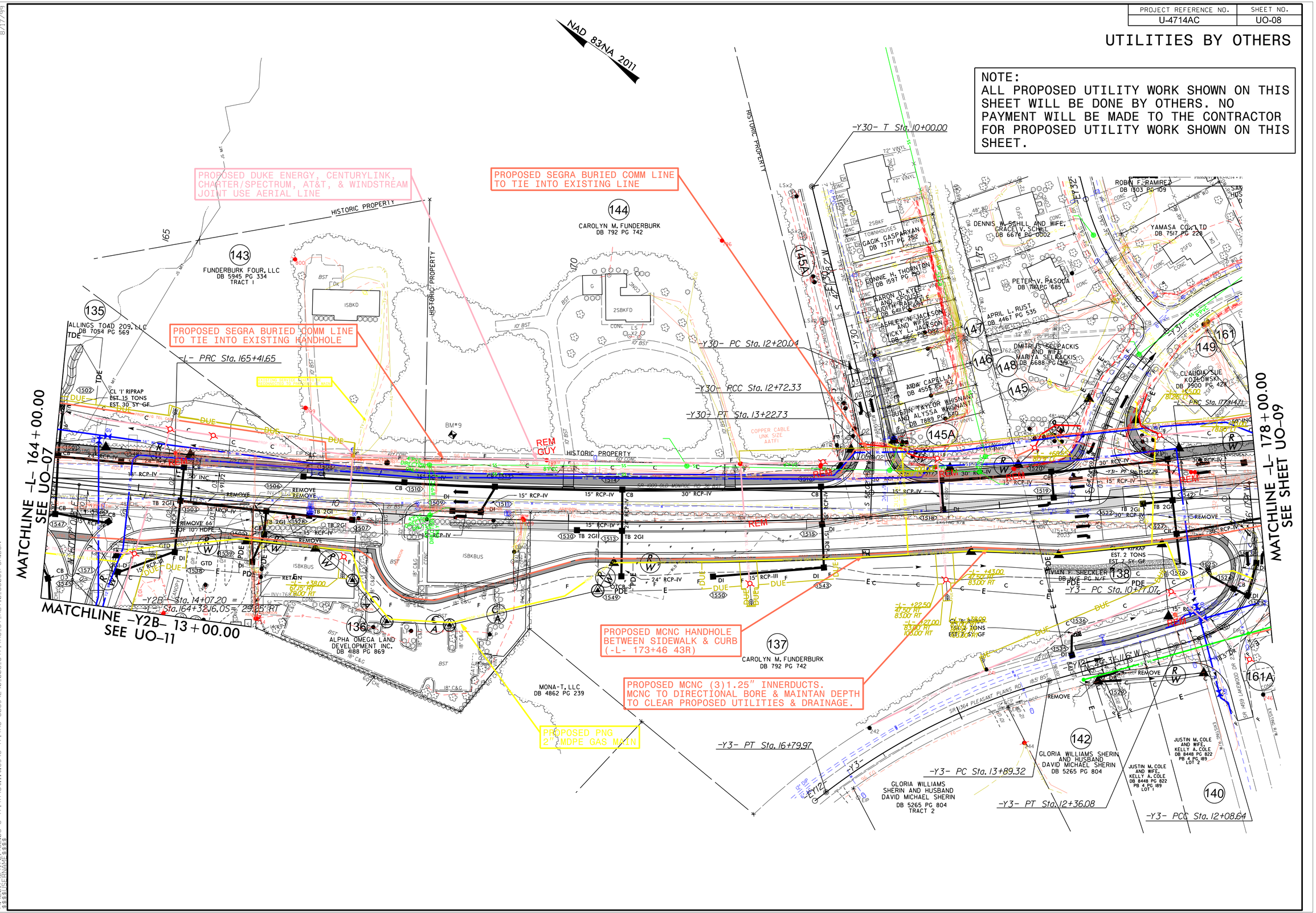
PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	UO-08

UTILITIES BY OTHERS

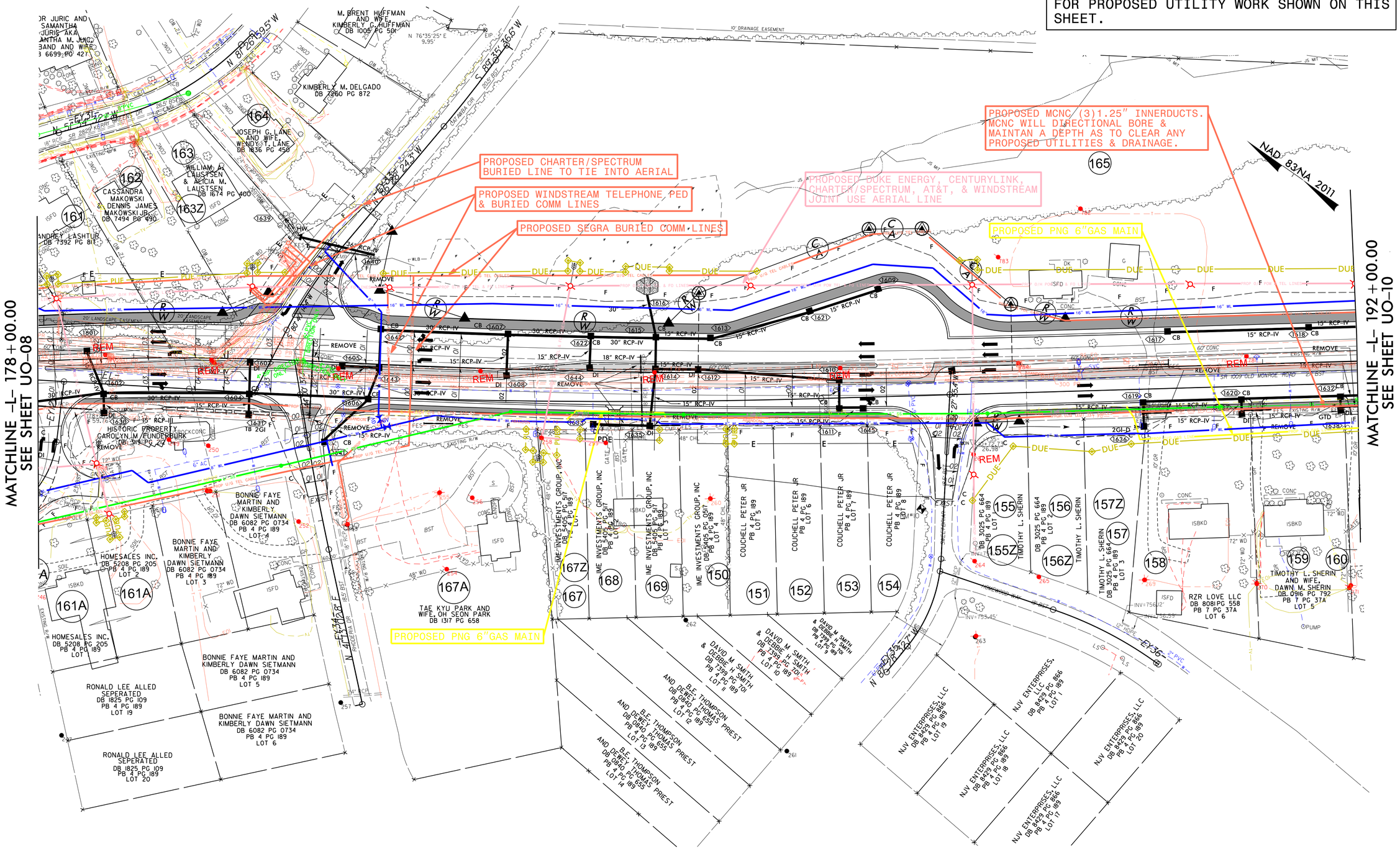
NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.



PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	UO-09

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.



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$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	UO-10

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.

NAD 83/NA 2011

MATCHLINE -L- 192+00.00
SEE SHEET UO-09

PROPOSED DUKE ENERGY, CENTURYLINK, CHARTER/SPECTRUM, AT&T, & WINDSTREAM JOINT USE AERIAL LINE

END TIP PROJECT U-4714AC
BEGIN TIP PROJECT U-4714B
-L- STA. 193+50.61

PROPOSED SEGRA BURIED COMM LINE & HANDHOLE

PROPOSED AT&T BURIED COMM LINE

PROPOSED PNG 6" GAS MAIN

PROPOSED MCNC (3)1.25" INNERDUCTS & TELEPHONE PED. MCNC WILL DIRECTIONAL BORE & MAINTAIN A DEPTH AS TO CLEAR ANY PROPOSED UTILITIES & DRAINAGE.

-L- POT Sta. 20+68.26 =
-Y- POT Sta. 12+00.00

-BL-38 194+52.28

SIKES VAN HENERY AND LYNETTE G PB A PG 50B LOT 10

LUKENS JUDY E DB 6706 PG 257 PB A PG 50B LOT 11

RUSSELL DANNY K AND VIRGINIA DB N/F PG N/F PB A PG 50B LOT 12

PHIFER BRENDA E DB N/F PG N/F PB A PG 50B LOT 13

FREDERICK M. BUNICK AND WIFE PATRICIA G. GABRIEL-BURNICK DB 1639 PG 0293 PB A PG 50B LOT 14

KRISTIN AREY DB 6975 PG 677 PB A PG 50B LOT 15

ERIK K ROWLETT AND WIFE ISABEL RUEDA ABAD DB 6005 PG 222

ROBERT M. SULLIVAN AND WIFE SHARON L. SULLIVAN DB 1653 PG 327

MATTHEW SMITH DB 7247 PG 709 PB F PG 844

JACEK RUDZIEWICZ DANKA RUDZIEWICZ DB 3792 PG 326 PB F PG 844

PB F PG 844 (EXHIBIT A-12)

DAVID L RAY SUSAN A RAY DB 1925 PG 671 PB F PG 844

KIMBERLY A ELSASSER DB 3681 PG 307 PB F PG 844

CHRISTINE S GOODSON DAVIS A GOODSON DB 3187 PG 441 PB F PG 844

MORNINGSIDE MEADOWS HOMEOWNERS ASSOCIATION, INC DB 1414 PG 136 PB F PG 844 COS

MARK DAVID BROOME DB 7235 PG 204

STALLINGS POINTE, LLC DB 7094 PG 100

DAWN M. SHERIN DB 4555 PG 131 PB 7 PG 37A LOT 4

317 PROPERTIES, LLC DB 5887 PG 101 PB 7 PG 37A LOT 3

ALLEN POLE DB 1411 PG 344 PB 7 PG 37A LOT 2

DANNY F. DUNN AND WIFE JENNIFER J. DUNN DB 4142 PG 876 PB 7 PG 37A LOT 1

JAMES HAMILTON TURNER, JR DB 3524 PG 722

ANTONIOS K. PANOU DB 858 PG 500

ANTONIOS K. PANOU DB 911 PG 697

BRUCE R. MARX AND SPOUSE, LINDA L. MARX DB 5344 PG 570

WILLIAM LARRY ALEXANDER DB 7503 PG 411

LINA M. ALEXANDER DB 1169 PG 823

MAXWELL RICHARD MCWATERS DB 7436 PG 537

HAZEL FOSTER DB N/F PG N/F

DAMON S. BUTCHER AND WIFE, TIFFANY M. BUTCHER DB 1349 PG 699

WILLIAM F. DEMOSS AND NANCY B. DEMOSS DB 7131 PG 678

RICHARD P. BROOME DB 365 PG 477

PIEDMONT PROPERTY MANAGEMENT LLC DB 4772 PG 275

YAMASA CO., LTD. DB 7531 PG 455

EDWARD W. CARTON AND WIFE TARA A. CARTON

28-AUG-2023 10:32
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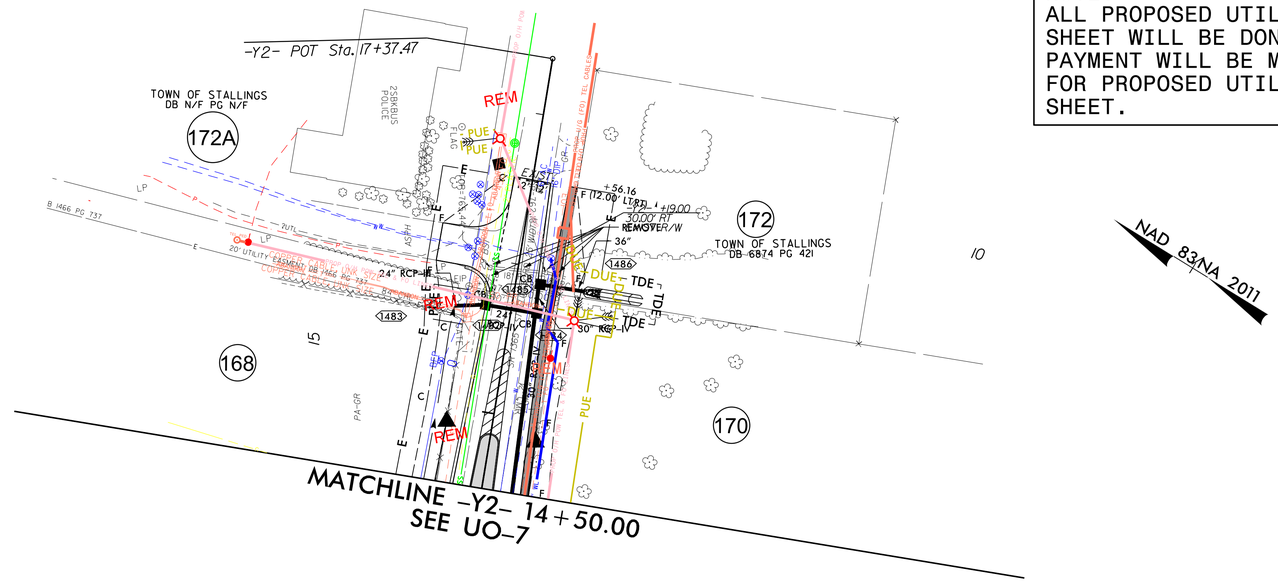
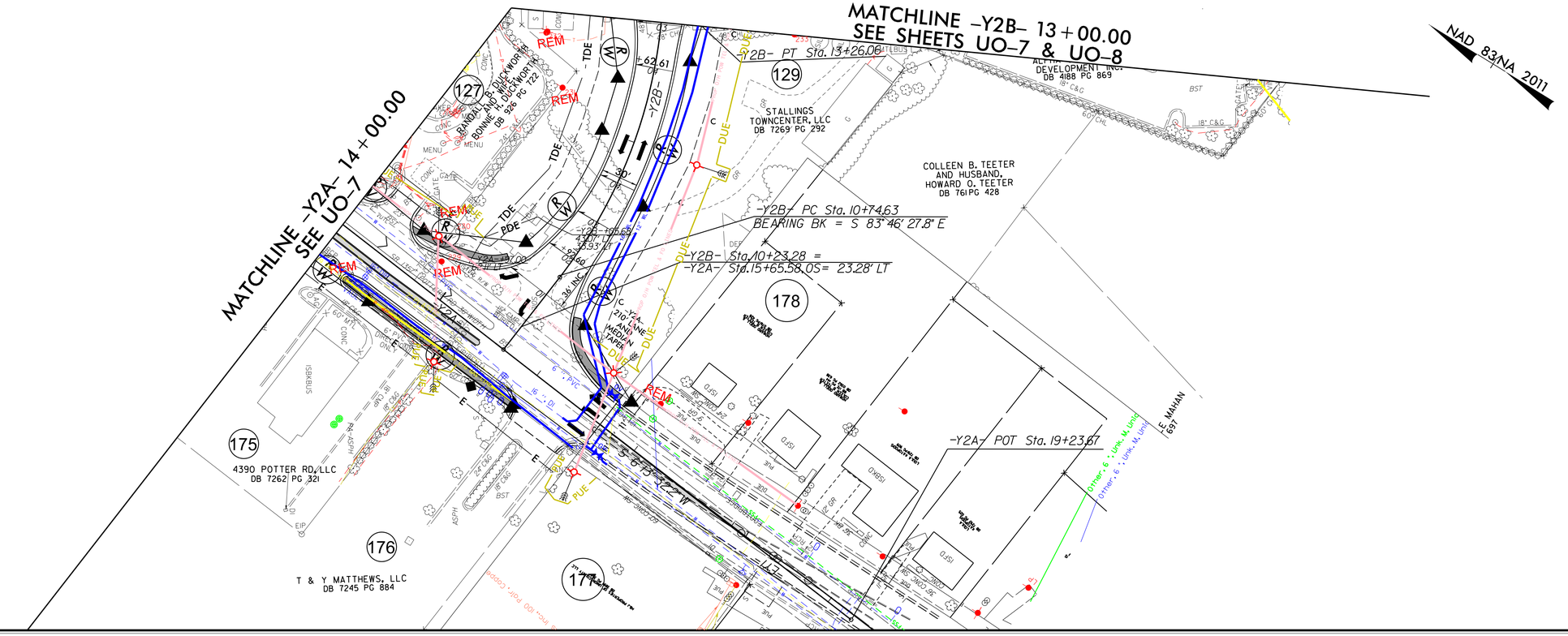
USER NAME = $$$$USERNAME$$$$
8/17/99

PROJECT REFERENCE NO.	SHEET NO.
U-4714AC	UO-11

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.





8/17/99

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