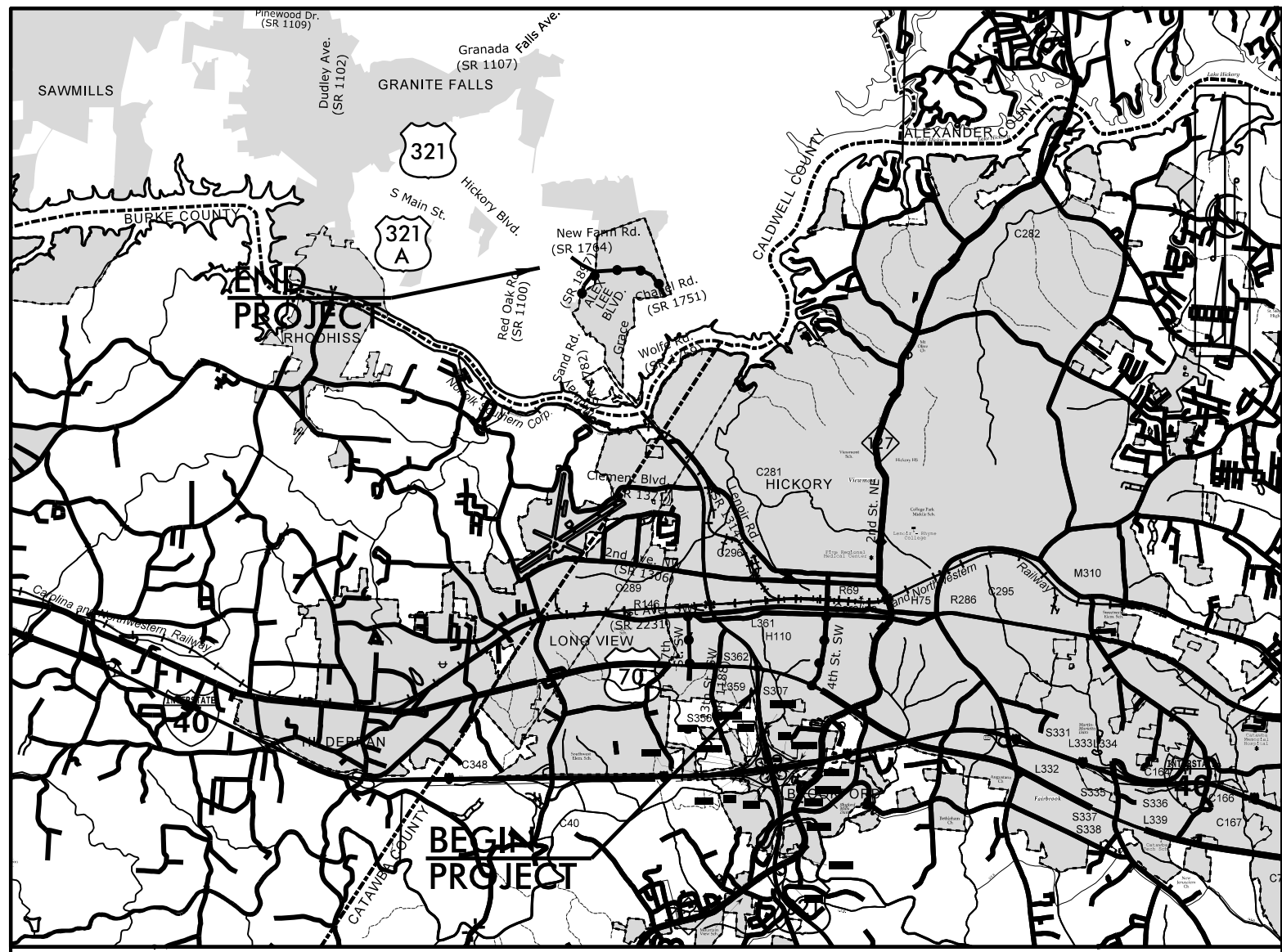


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TIP PROJECT: U-4700A



VICINITY MAP (NTS)

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

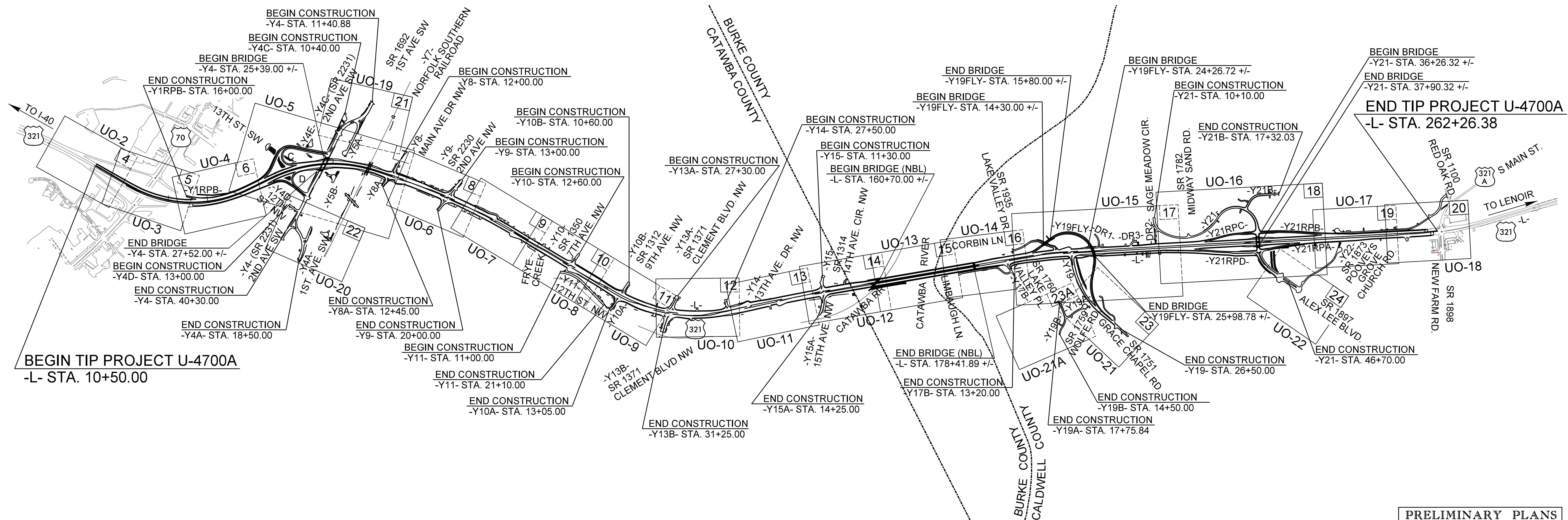
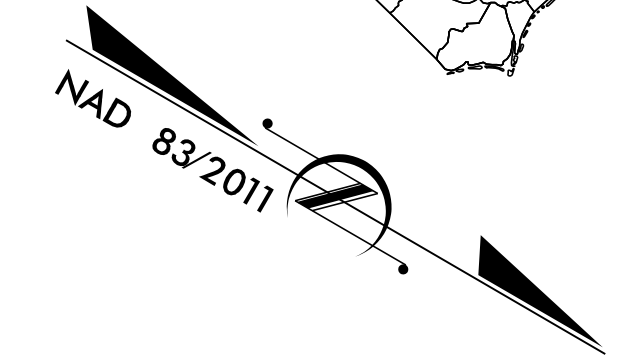
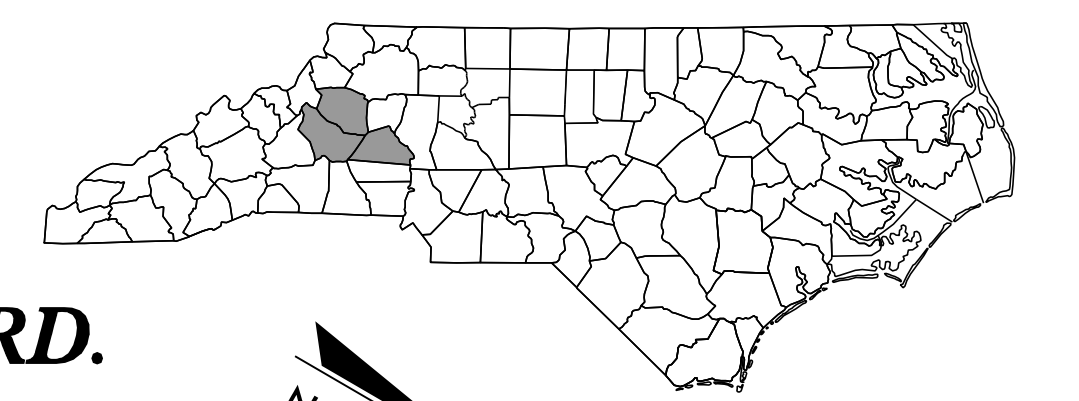
**UTILITIES BY OTHERS PLANS
CALDWELL & CATAWBA COUNTIES**

LOCATION: US 321 WIDENING IMPROVEMENTS FROM US 70 IN HICKORY TO JUST SOUTH OF US 321A /NEW FARM RD.

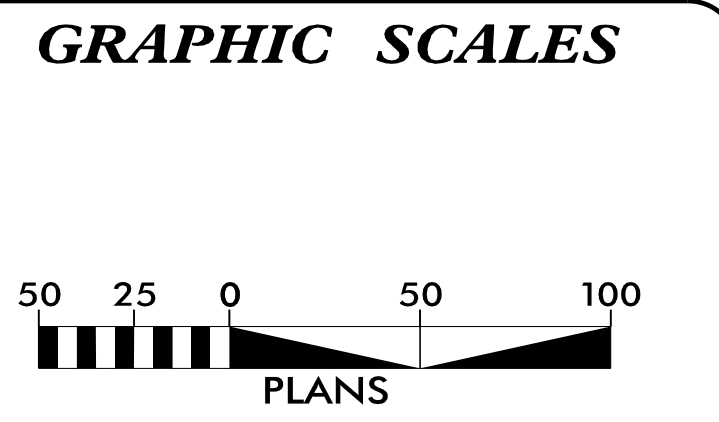
TYPE OF WORK: DRY UTILITIES RELOCATION WORK

T.I.P. NO.	SHEET NO.
U-4700A	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.



PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



INDEX OF SHEETS

SHEET NO.:	DESCRIPTION:
UO-1	TITLE SHEET
UO-02 THRU UO-22	UBO PLAN SHEETS

UTILITY OWNERS WITH CONFLICTS

	(A) DUKE ENERGY - POWER (T)
	(B) DUKE ENERGY - POWER (D)
	(C) PIEDMONT NATURAL GAS - NATURAL GAS
	(D) CENTURYLINK - COMMUNICATIONS & FO
	(E) CITY OF HICKORY - TELECOMMUNICATIONS & FO
	(F) MCNC - COMMUNICATIONS
	(G) CONTERRA ULTRA BROADBAND - COMMUNICATIONS
	(H) SEGRA - COMMUNICATIONS
	(I) NCDOT - TRAFFIC FIBER
	(J) SPECTRUM - CATV
	(K) CALDWELL COUNTY - WATER
	(L) CITY OF HICKORY - WATER & SEWER
	(M) TOWN OF GRANITE FALLS - WATER & SEWER

PREPARED IN THE OFFICE OF:

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Howard Woodall, PE UTILITY PROJECT MANAGER
Lee Johnson PROJECT UTILITY COORDINATOR
Zack Elerby PROJECT UTILITY CADD DESIGNER

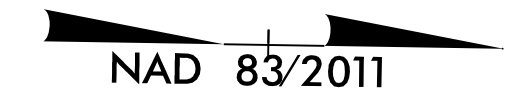
**DIVISION OF HIGHWAYS
DIVISION 12**

1710 E. MARION STREET
SHELBY, NC 28151

Chad Drewery DIVISION CONTACT #1
Warren Anderson DIVISION CONTACT #2
Larry Carpenter DIVISION CONTACT #3
XXXX DIVISION CONTACT #4

UTILITIES BY OTHERS

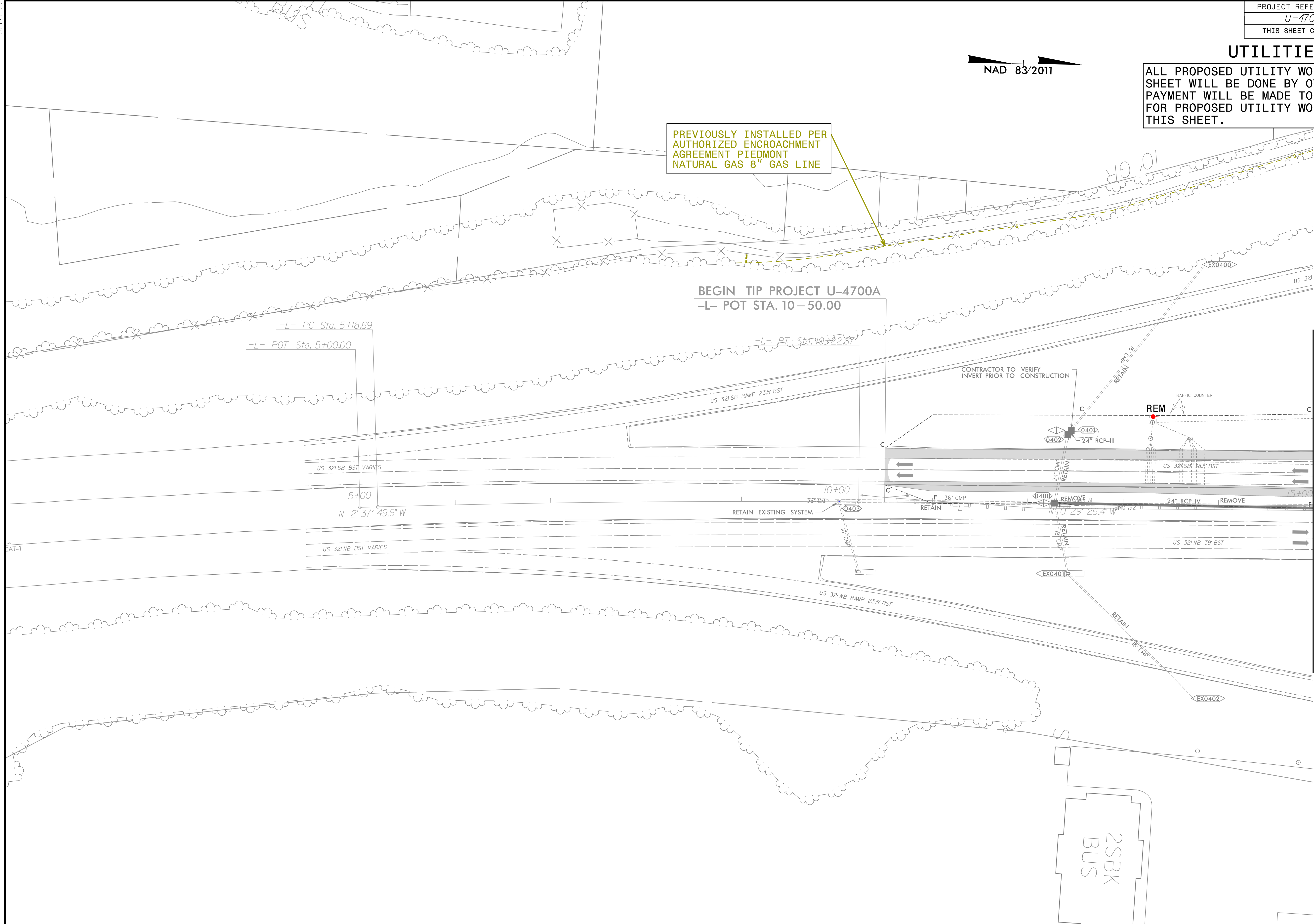
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.



PREVIOUSLY INSTALLED PER AUTHORIZED ENCROACHMENT AGREEMENT PIEDMONT NATURAL GAS 8" GAS LINE

BEGIN TIP PROJECT U-4700A
-L- POT STA. 10+50.00

MATCHLINE -L- STA. 15+00 SEE SHEET UO-3



UTILITY OWNERS ON THIS SHEET

PIEDMONT NATURAL GAS - NATURAL GAS



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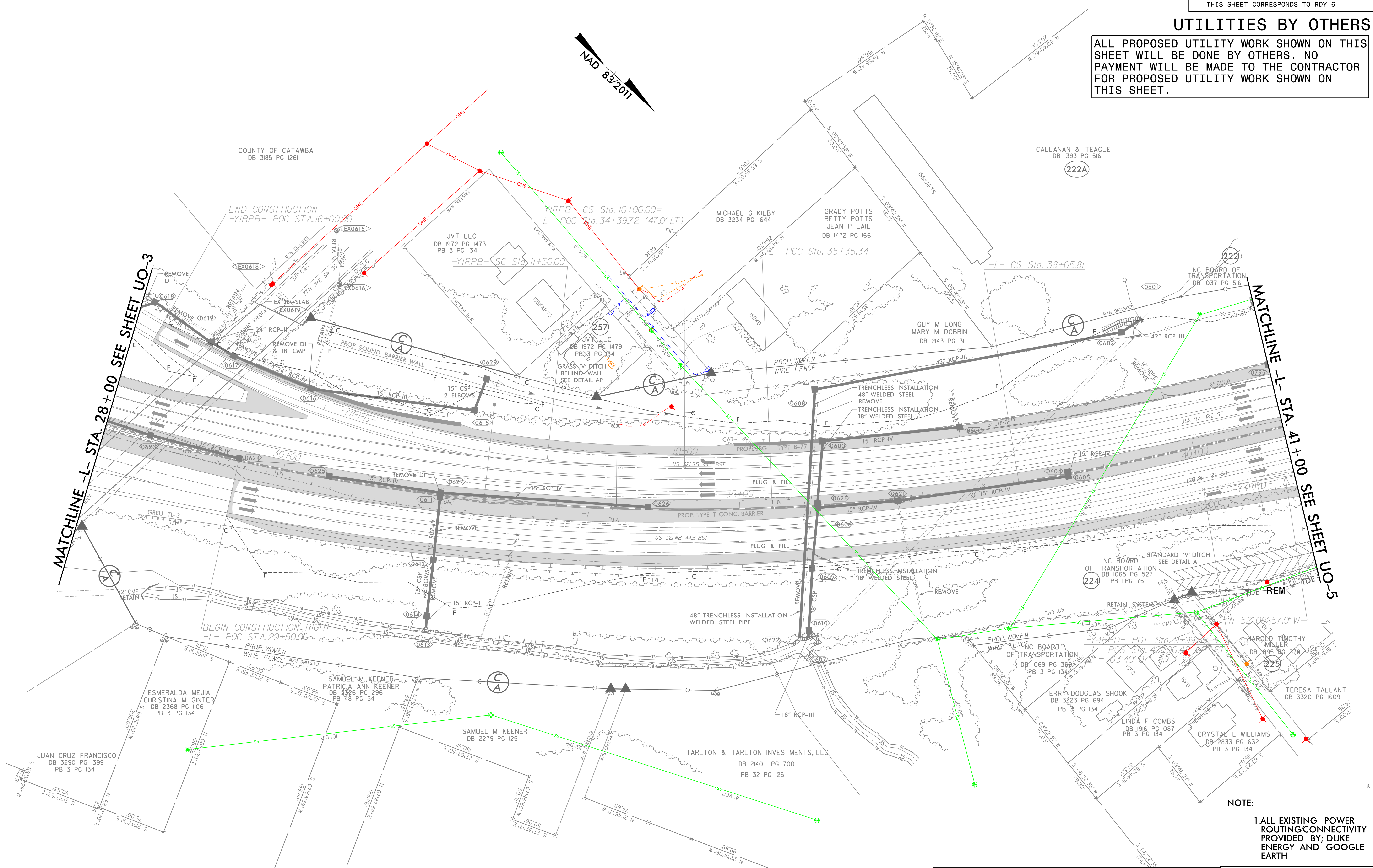
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UTILITIES BY OTHERS

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.

8/17/19

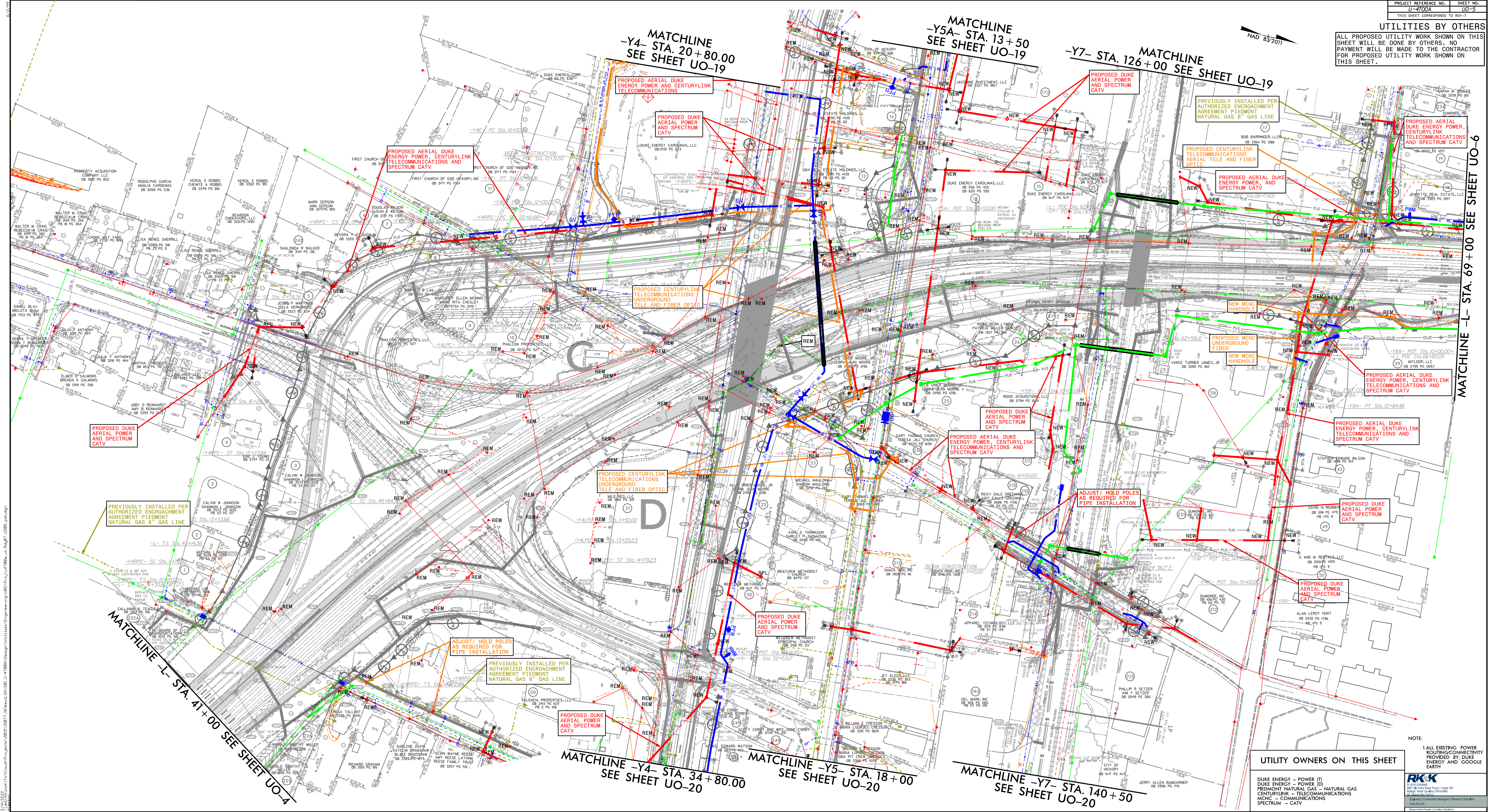
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 8/17/19



NOTE:
 1. ALL EXISTING POWER ROUTING/CONNECTIVITY PROVIDED BY; DUKE ENERGY AND GOOGLE EARTH

UTILITY OWNERS ON THIS SHEET NO UTILITY CONFLICTS ON THIS SHEET.	 P: (919) 378-9550 8601 Six Forks Road, Forum 1, Suite 700 Raleigh, North Carolina 27615-3960 NC License No. F-0112 Engineers Construction Managers Planners Scientists www.rk.com Responsive People Creative Solutions
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UTILITIES BY OTHERS
 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 -Y4- STA. 20+80.00 SEE SHEET UO-19

MATCHLINE -Y5A- STA. 13+50 SEE SHEET UO-19

MATCHLINE -Y7- STA. 126+00 SEE SHEET UO-19

MATCHLINE -L- STA. 69+00 SEE SHEET UO-6

MATCHLINE -L- STA. 41+00 SEE SHEET UO-4

MATCHLINE -Y4- STA. 34+80.00 SEE SHEET UO-20

MATCHLINE -Y5- STA. 18+00 SEE SHEET UO-20

MATCHLINE -Y7- STA. 140+50 SEE SHEET UO-20

UTILITY OWNERS ON THIS SHEET

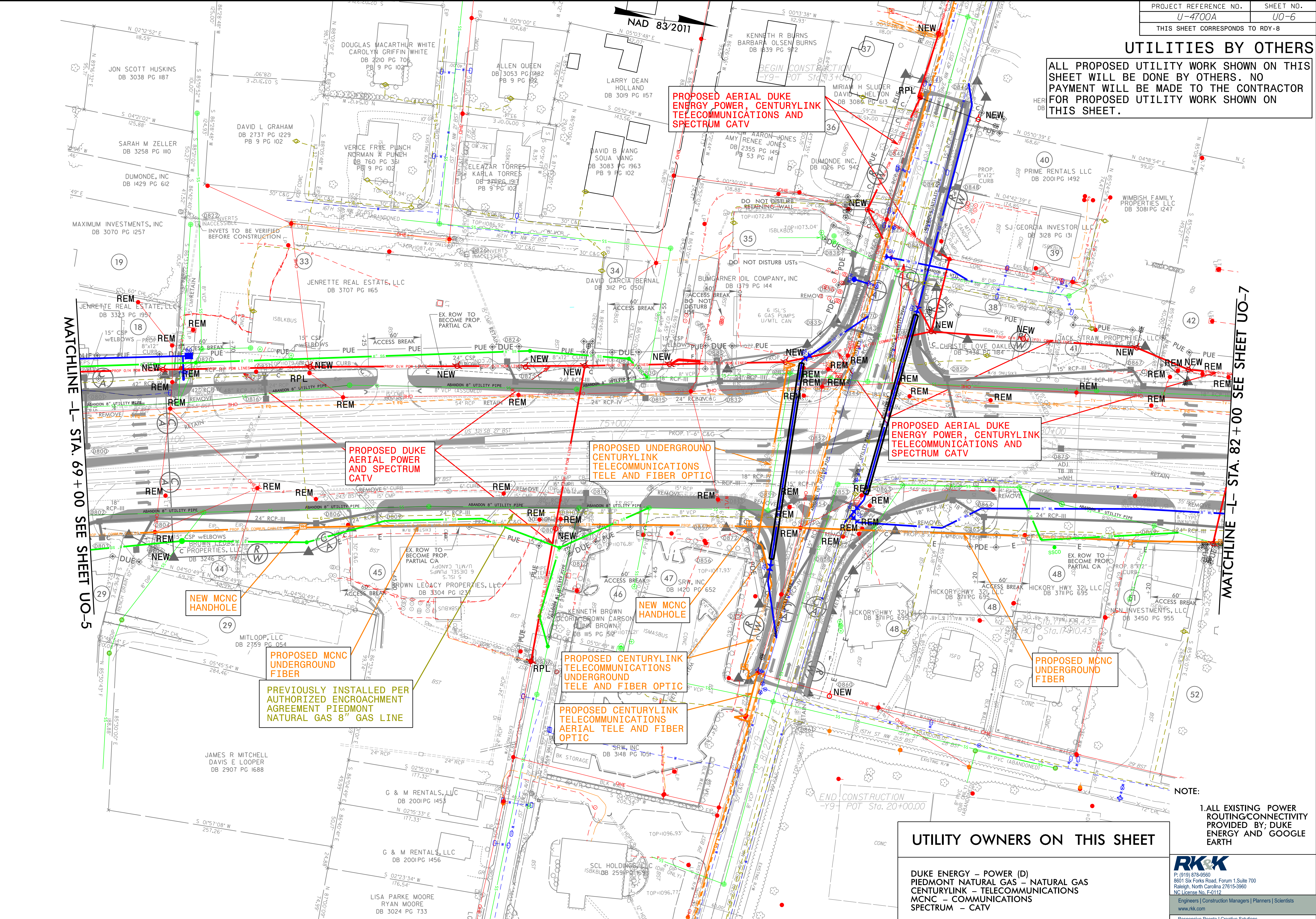
- DUKE ENERGY - POWER (P)
- DUKE ENERGY - POWER (D)
- PIEDMONT NATURAL GAS - NATURAL GAS
- CENTURYLINK - TELECOMMUNICATIONS
- MGNIC - COMMUNICATIONS
- SPECTRUM - CATV

NOTE:
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UTILITIES BY OTHERS

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MATCHLINE -L- STA. 69 + 00 SEE SHEET UO-5

MATCHLINE -L- STA. 82 + 00 SEE SHEET UO-7

PROPOSED AERIAL DUKE ENERGY POWER, CENTURYLINK TELECOMMUNICATIONS AND SPECTRUM CATV

PROPOSED AERIAL DUKE ENERGY POWER, CENTURYLINK TELECOMMUNICATIONS AND SPECTRUM CATV

PROPOSED DUKE AERIAL POWER AND SPECTRUM CATV

PROPOSED UNDERGROUND CENTURYLINK TELECOMMUNICATIONS TELE AND FIBER OPTIC

NEW MCNC HANDHOLE

NEW MCNC HANDHOLE

PROPOSED MCNC UNDERGROUND FIBER

PREVIOUSLY INSTALLED PER AUTHORIZED ENCROACHMENT AGREEMENT PIEDMONT NATURAL GAS 8" GAS LINE

PROPOSED CENTURYLINK TELECOMMUNICATIONS UNDERGROUND TELE AND FIBER OPTIC

PROPOSED CENTURYLINK TELECOMMUNICATIONS AERIAL TELE AND FIBER OPTIC

PROPOSED MCNC UNDERGROUND FIBER

UTILITY OWNERS ON THIS SHEET

- DUKE ENERGY - POWER (D)
- PIEDMONT NATURAL GAS - NATURAL GAS
- CENTURYLINK - TELECOMMUNICATIONS
- MCNC - COMMUNICATIONS
- SPECTRUM - CATV

NOTE:
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UTILITIES BY OTHERS

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.

PROPOSED AERIAL DUKE ENERGY POWER, CENTURYLINK TELECOMMUNICATIONS AND SPECTRUM CATV

PROPOSED CENTURYLINK TELECOMMUNICATIONS AERIAL TELE AND FIBER OPTIC

PROPOSED AERIAL DUKE ENERGY POWER, CENTURYLINK TELECOMMUNICATIONS AND SPECTRUM CATV

PROPOSED AERIAL DUKE ENERGY POWER, CENTURYLINK TELECOMMUNICATIONS AND SPECTRUM CATV

NEW MCNC HANDHOLE

PROPOSED MCNC UNDERGROUND FIBER

NEW MCNC HANDHOLE

PROPOSED MCNC UNDERGROUND FIBER

PREVIOUSLY INSTALLED PER AUTHORIZED ENCROACHMENT AGREEMENT PIEDMONT NATURAL GAS 8" GAS LINE

PROPOSED MCNC UNDERGROUND FIBER

UTILITY OWNERS ON THIS SHEET

DUKE ENERGY - POWER (D)
 PIEDMONT NATURAL GAS - NATURAL GAS
 CENTURYLINK - TELECOMMUNICATIONS
 MCNC - COMMUNICATIONS
 SPECTRUM - CATV

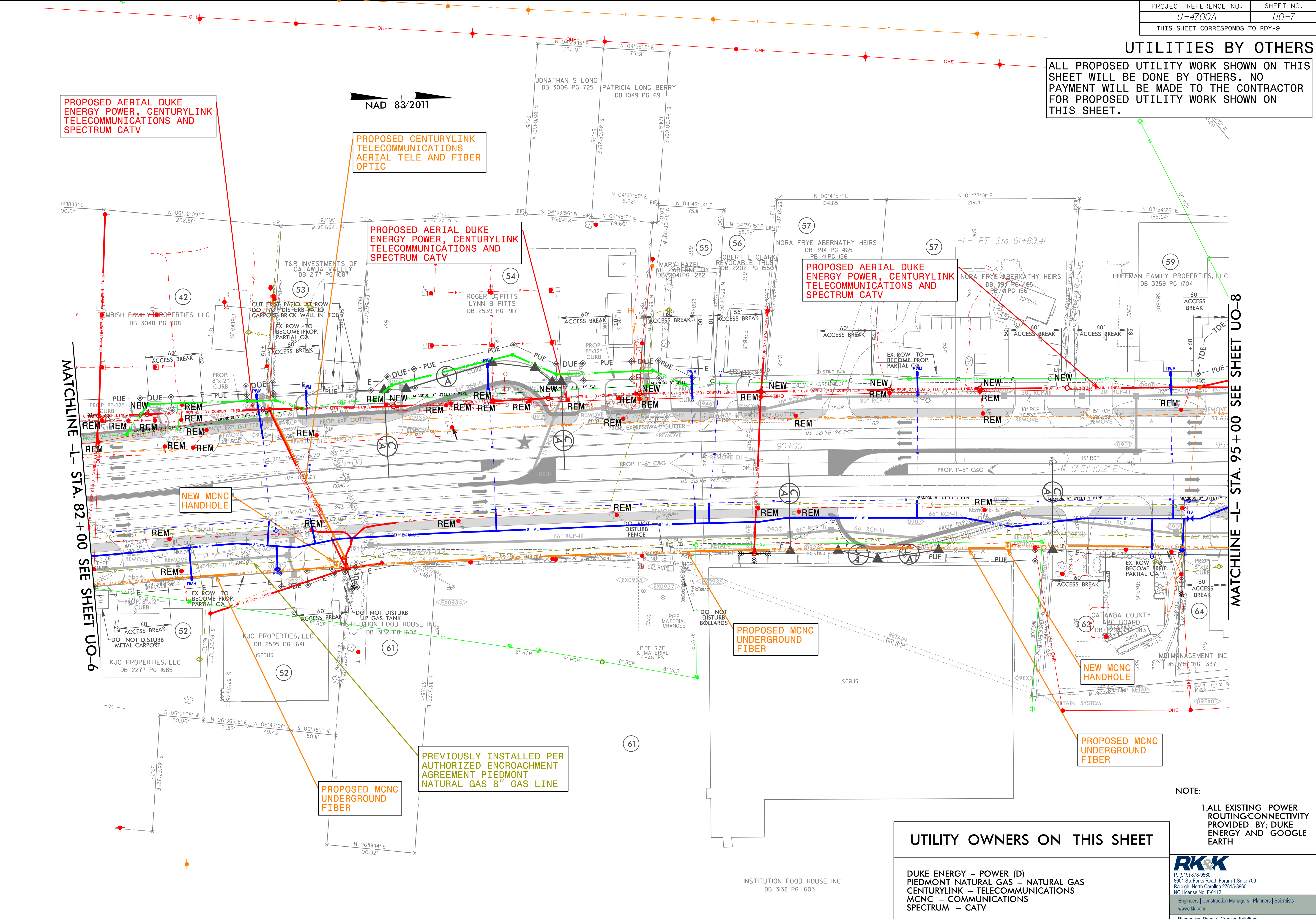
NOTE:
 1. ALL EXISTING POWER ROUTING/CONNECTIVITY PROVIDED BY; DUKE ENERGY AND GOOGLE EARTH



MATCHLINE -L- STA. 82 + 00 SEE SHEET UO-6

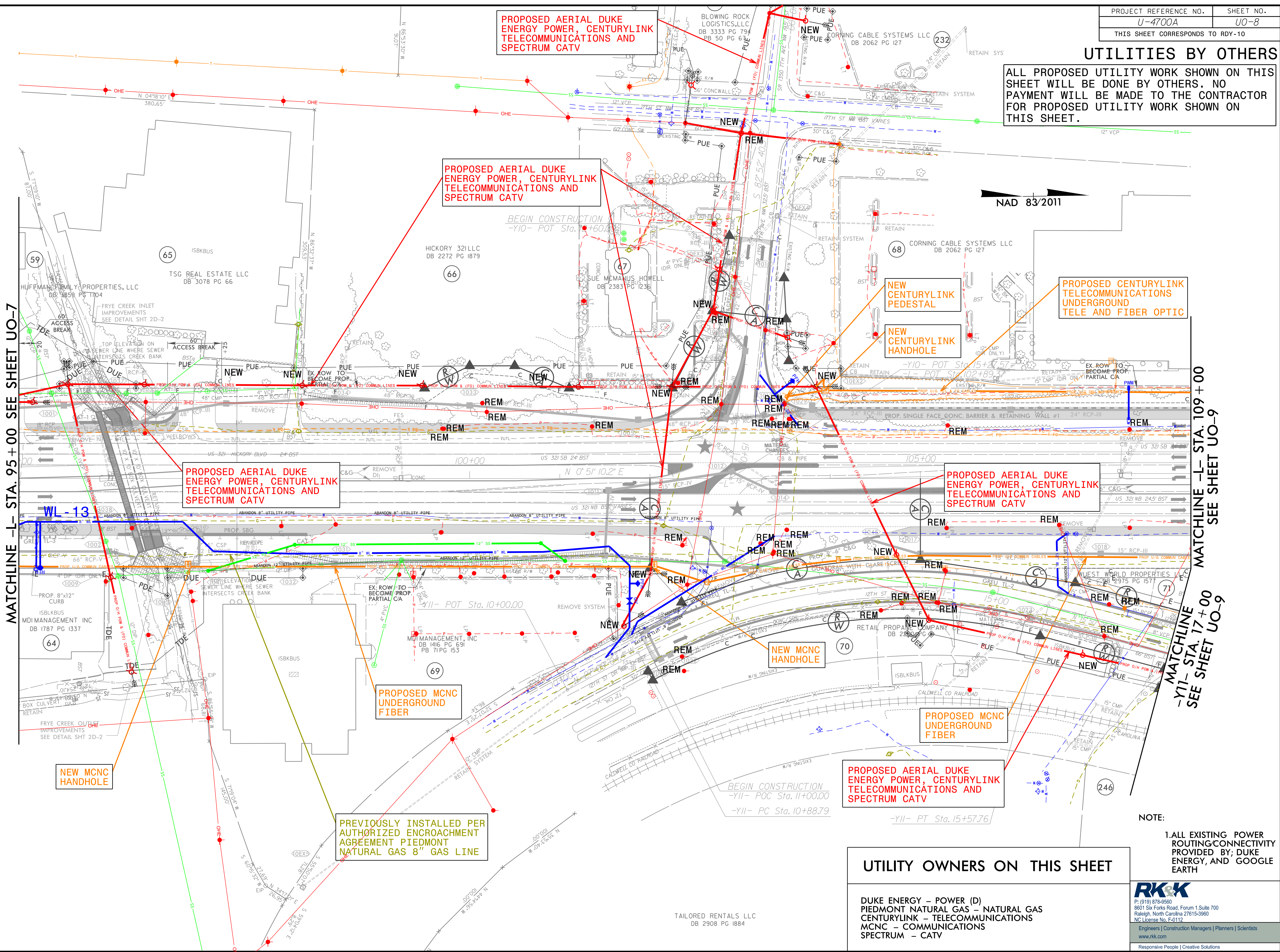
MATCHLINE -L- STA. 95 + 00 SEE SHEET UO-8

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UTILITIES BY OTHERS

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- STA. 95+00 SEE SHEET UO-7

MATCHLINE -L- STA. 109+00 SEE SHEET UO-9

MATCHLINE -Y11- STA. 17+00 SEE SHEET UO-9

PROPOSED AERIAL DUKE ENERGY POWER, CENTURYLINK TELECOMMUNICATIONS AND SPECTRUM CATV

PROPOSED AERIAL DUKE ENERGY POWER, CENTURYLINK TELECOMMUNICATIONS AND SPECTRUM CATV

PROPOSED AERIAL DUKE ENERGY POWER, CENTURYLINK TELECOMMUNICATIONS AND SPECTRUM CATV

PROPOSED AERIAL DUKE ENERGY POWER, CENTURYLINK TELECOMMUNICATIONS AND SPECTRUM CATV

PROPOSED MCNC UNDERGROUND FIBER

PROPOSED MCNC UNDERGROUND FIBER

PROPOSED AERIAL DUKE ENERGY POWER, CENTURYLINK TELECOMMUNICATIONS AND SPECTRUM CATV

PREVIOUSLY INSTALLED PER AUTHORIZED ENCROACHMENT AGREEMENT PIEDMONT NATURAL GAS 8" GAS LINE

NEW MCNC HANDHOLE

NEW CENTURYLINK PEDESTAL
NEW CENTURYLINK HANDHOLE

PROPOSED CENTURYLINK TELECOMMUNICATIONS UNDERGROUND TELE AND FIBER OPTIC

NEW MCNC HANDHOLE

UTILITY OWNERS ON THIS SHEET

- DUKE ENERGY - POWER (D)
- PIEDMONT NATURAL GAS - NATURAL GAS
- CENTURYLINK - TELECOMMUNICATIONS
- MCNC - COMMUNICATIONS
- SPECTRUM - CATV

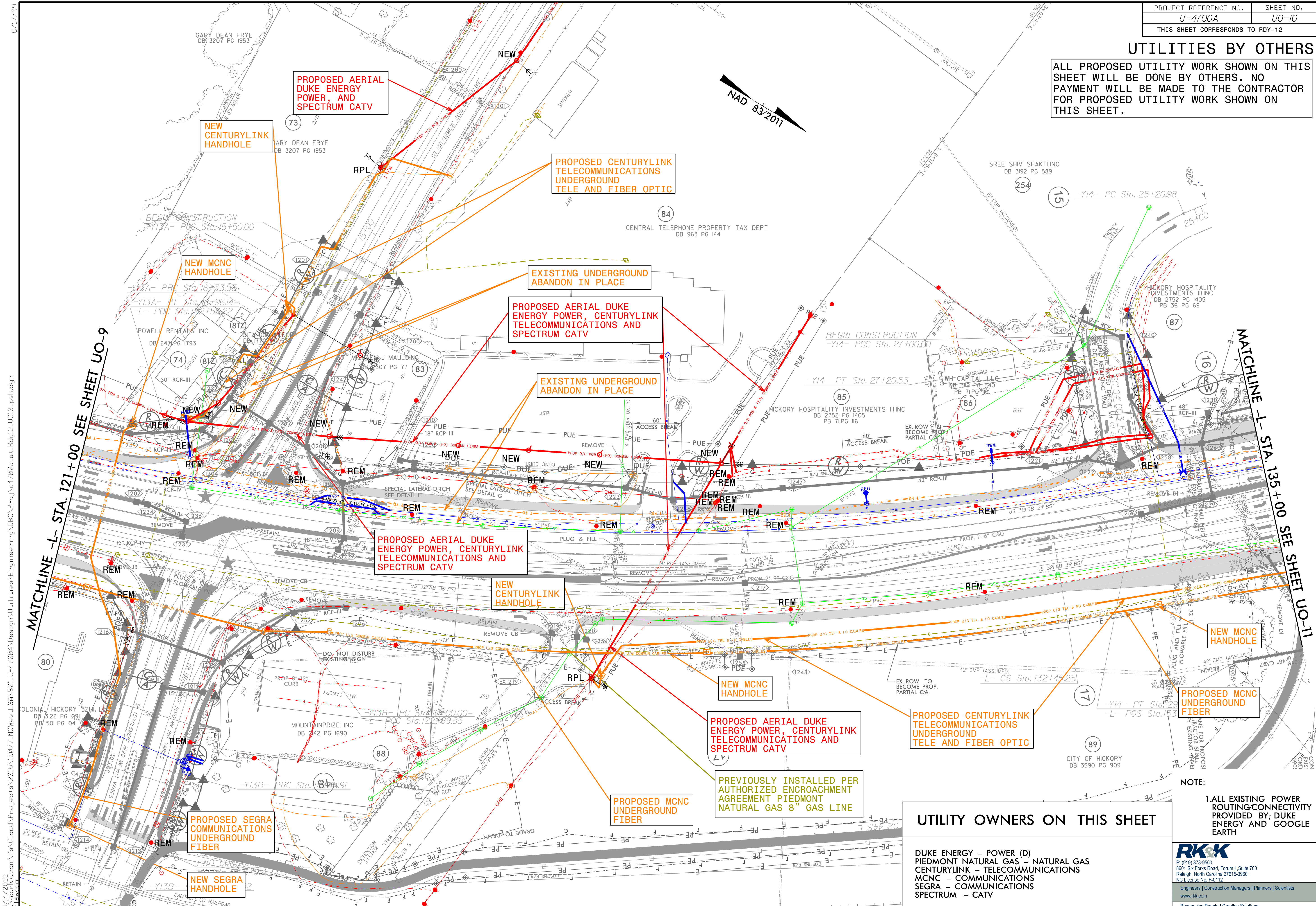
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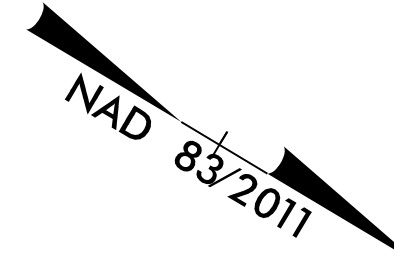
UTILITIES BY OTHERS

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MATCHLINE -L- STA. 121+00 SEE SHEET UO-9

MATCHLINE -L- STA. 135+00 SEE SHEET UO-11



UTILITY OWNERS ON THIS SHEET

- DUKE ENERGY - POWER (D)
- PIEDMONT NATURAL GAS - NATURAL GAS
- CENTURYLINK - TELECOMMUNICATIONS
- MCNC - COMMUNICATIONS
- SEGRA - COMMUNICATIONS
- SPECTRUM - CATV

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UTILITIES BY OTHERS

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PREVIOUSLY INSTALLED PER AUTHORIZED ENCROACHMENT AGREEMENT PIEDMONT NATURAL GAS 8" GAS LINE

PROPOSED CENTURYLINK TELECOMMUNICATIONS UNDERGROUND TELE AND FIBER OPTIC

EXISTING UNDERGROUND ABANDON IN PLACE

EXISTING CONDUIT ABANDON IN PLACE

NEW CENTURYLINK HANDHOLE

NEW MCNC HANDHOLE

PROPOSED MCNC UNDERGROUND FIBER

PROPOSED CENTURYLINK TELECOMMUNICATIONS UNDERGROUND TELE AND FIBER OPTIC

PROPOSED MCNC UNDERGROUND FIBER

EXISTING UNDERGROUND ABANDON IN PLACE

NEW CENTURYLINK HANDHOLE

PREVIOUSLY INSTALLED PER AUTHORIZED ENCROACHMENT AGREEMENT PIEDMONT NATURAL GAS 8" GAS LINE

UTILITY OWNERS ON THIS SHEET

- DUKE ENERGY - POWER (D)
- PIEDMONT NATURAL GAS - NATURAL GAS
- CENTURYLINK - TELECOMMUNICATIONS
- MCNC - COMMUNICATIONS
- SPECTRUM - CATV
- CALDWELL COUNTY - WATER
- CITY OF HICKORY - SEWER

NOTE:
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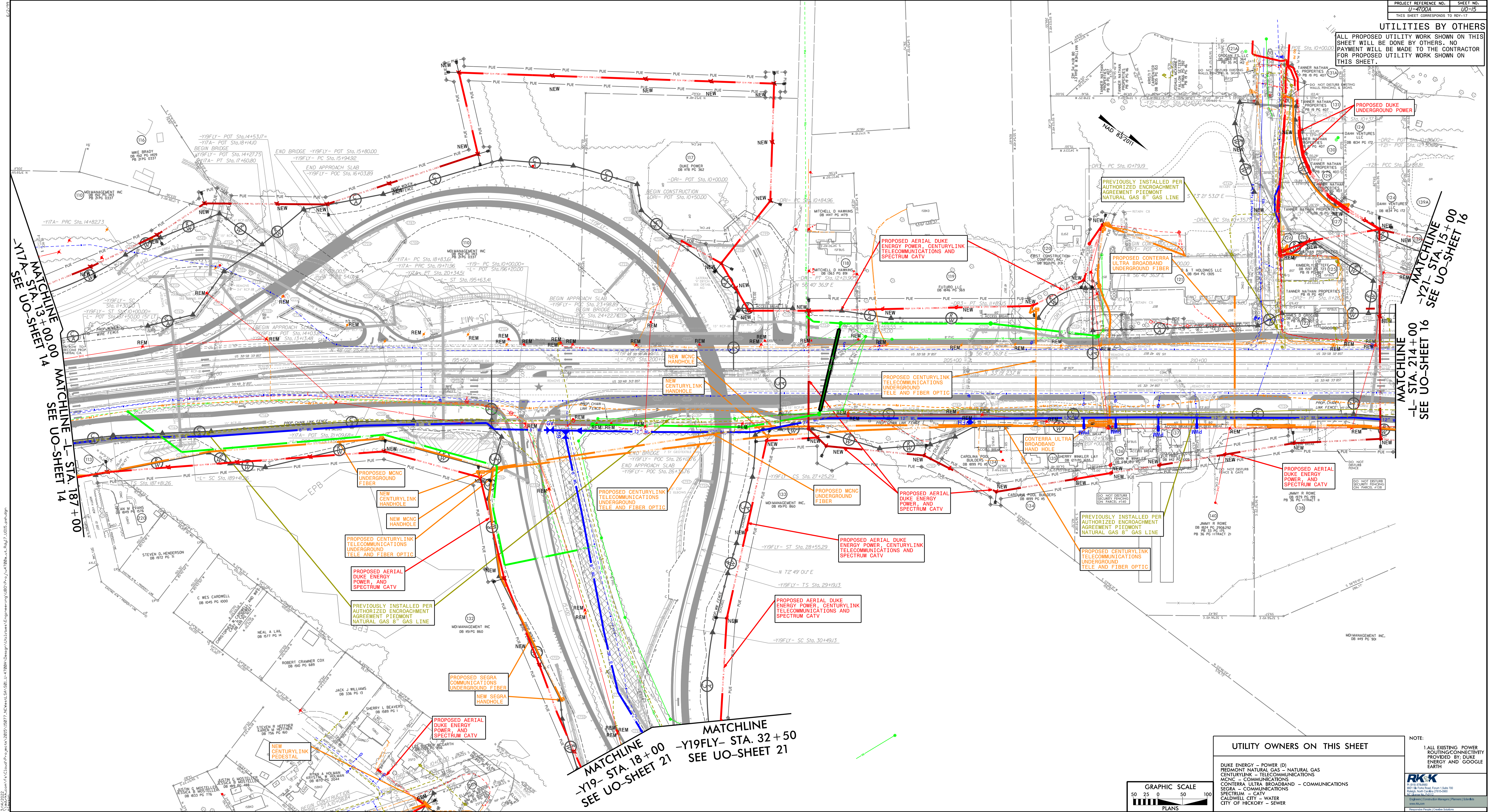
MATCHLINE -L- STA. 174 + 00 SEE UO-SHEET 13

MATCHLINE -L- STA. 13 + 00 SEE UO-SHEET 15

MATCHLINE -L- STA. 187 + 00 SEE UO-SHEET 15

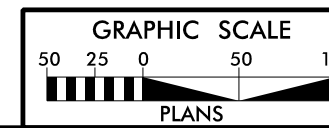
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UTILITIES BY OTHERS
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UTILITY OWNERS ON THIS SHEET

- DUKE ENERGY - POWER (D)
- PIEDMONT NATURAL GAS - NATURAL GAS
- CENTURYLINK - TELECOMMUNICATIONS
- MNC - COMMUNICATIONS
- CONTERRA ULTRA BROADBAND - COMMUNICATIONS
- SEGRA - COMMUNICATIONS
- SPECTRUM - CATV
- CALDWELL CITY - WATER
- CITY OF HICKORY - SEWER



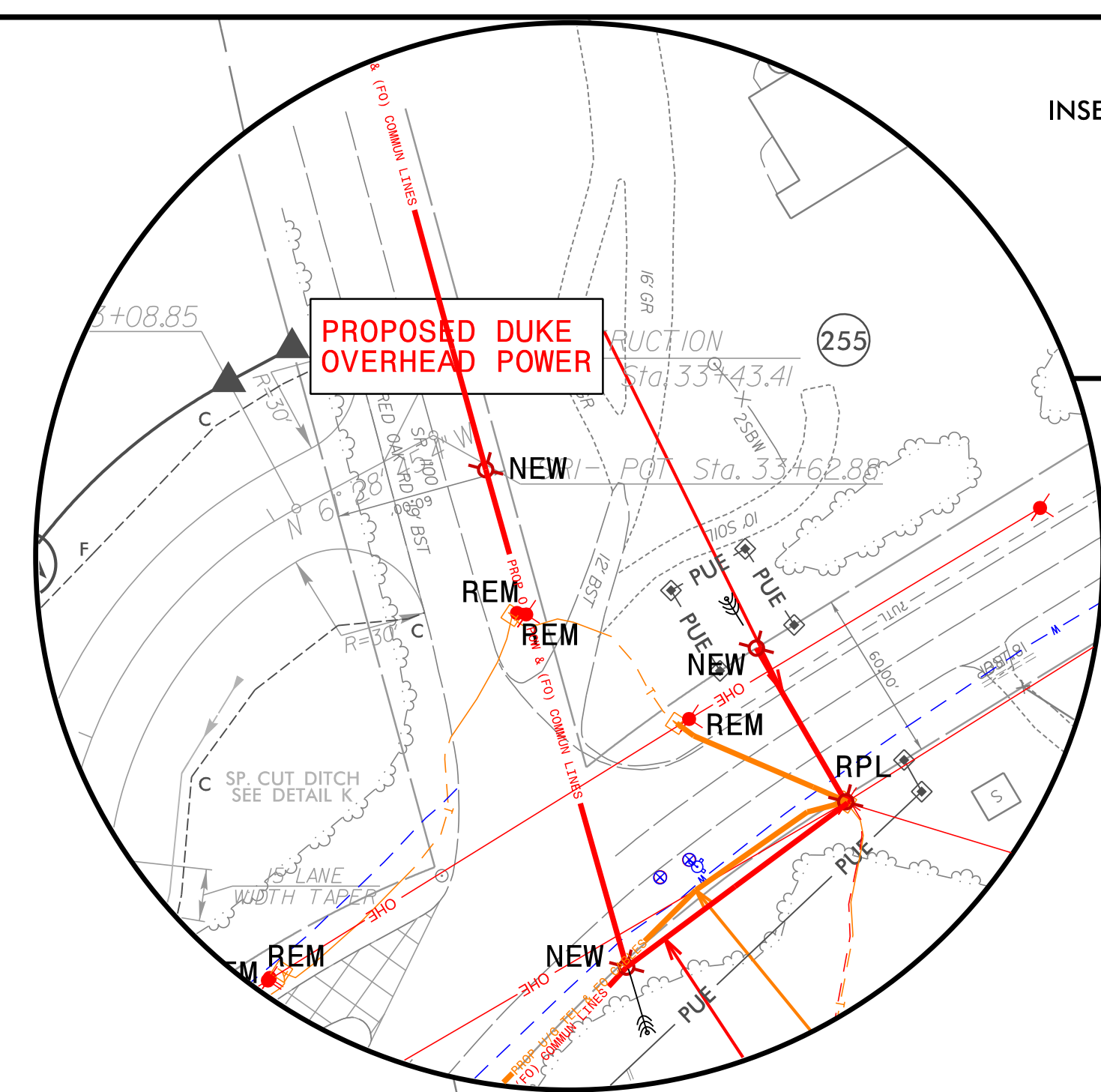
NOTE:
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UTILITIES BY OTHERS

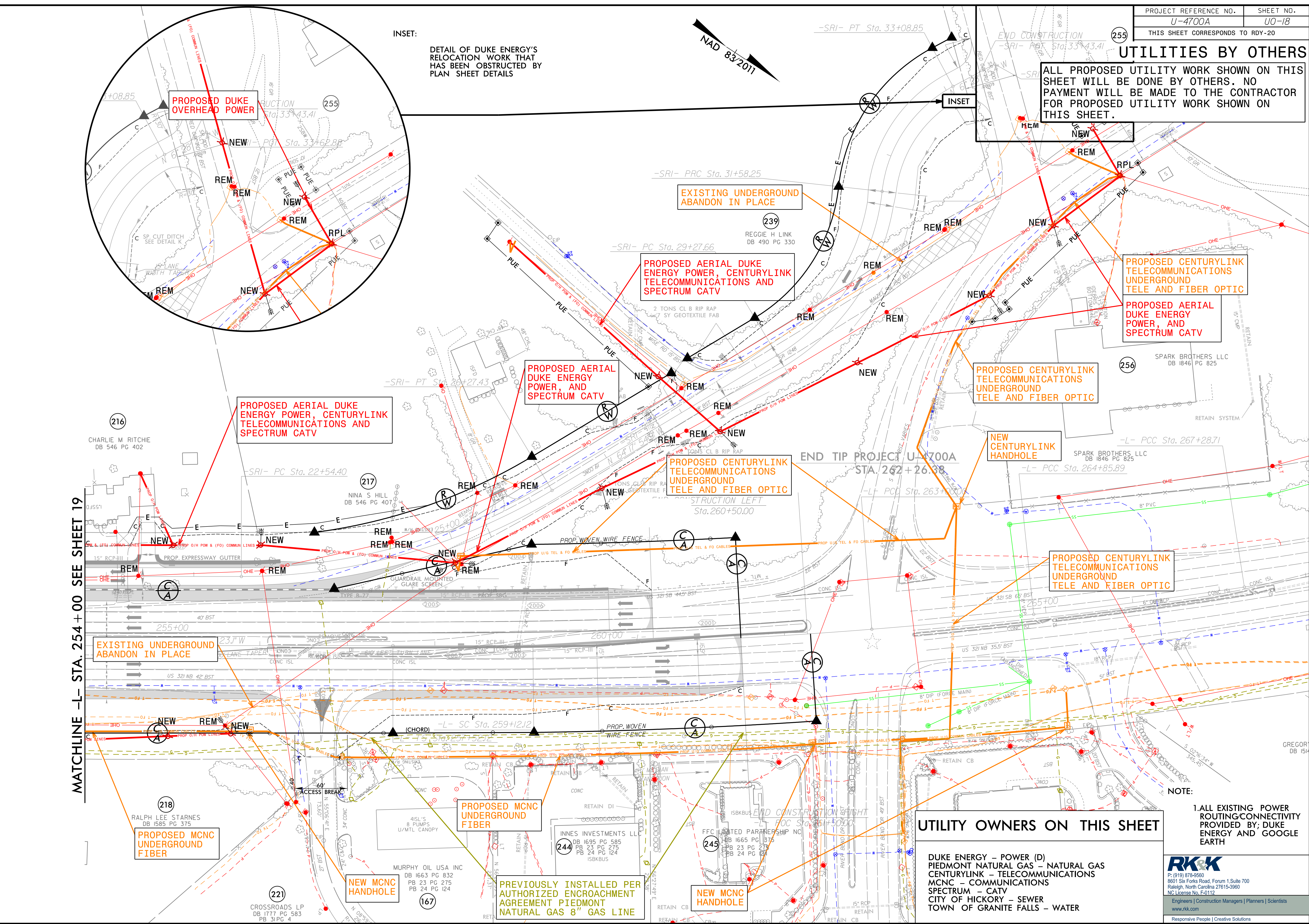
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.



INSET:
DETAIL OF DUKE ENERGY'S RELOCATION WORK THAT HAS BEEN OBSTRUCTED BY PLAN SHEET DETAILS



MATCHLINE -L- STA. 254 + 00 SEE SHEET 19



UTILITY OWNERS ON THIS SHEET

- DUKE ENERGY - POWER (D)
- PIEDMONT NATURAL GAS - NATURAL GAS
- CENTURYLINK - TELECOMMUNICATIONS
- MCNC - COMMUNICATIONS
- SPECTRUM - CATV
- CITY OF HICKORY - SEWER
- TOWN OF GRANITE FALLS - WATER

NOTE:
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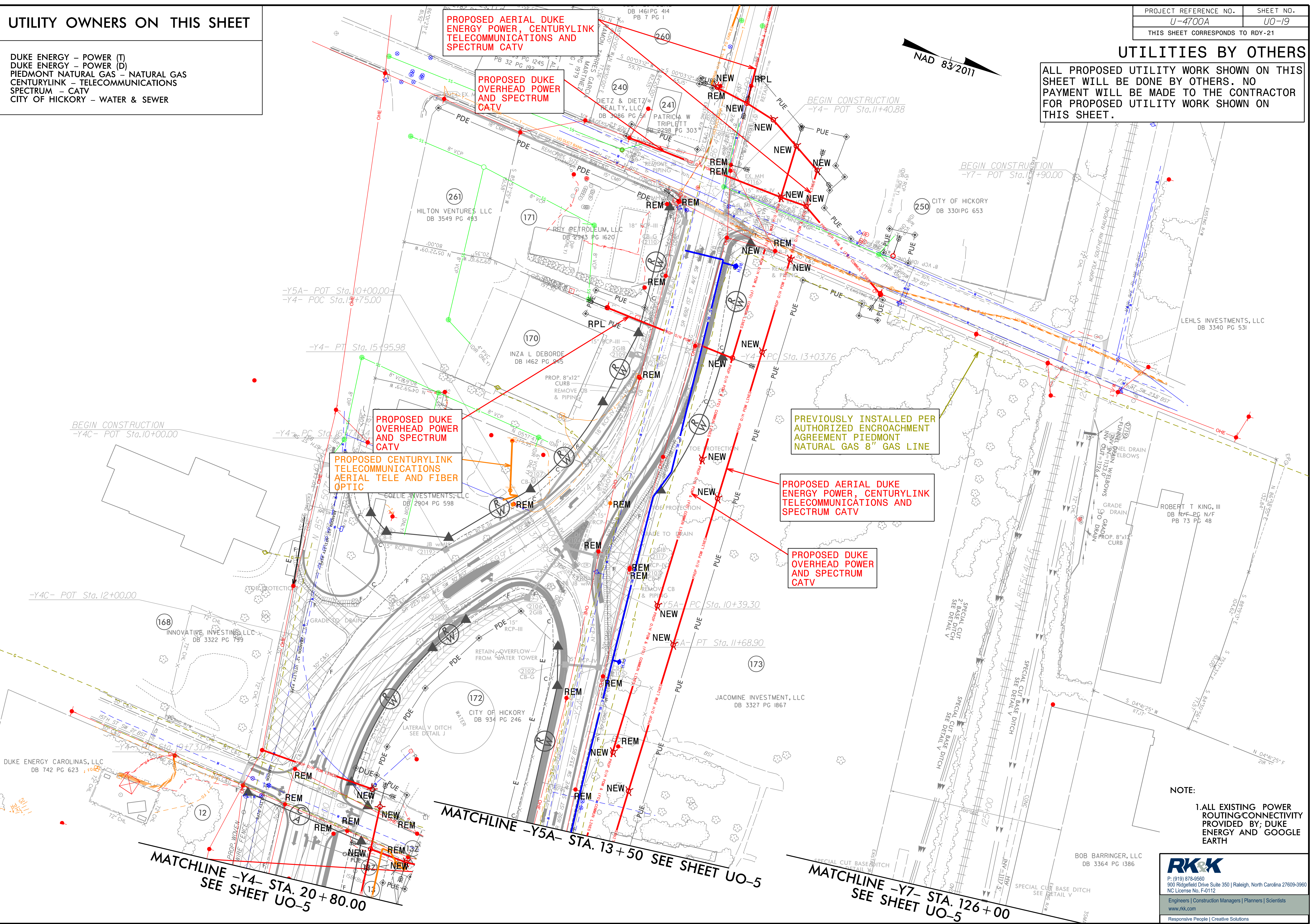
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UTILITY OWNERS ON THIS SHEET

DUKE ENERGY - POWER (T)
 DUKE ENERGY - POWER (D)
 PIEDMONT NATURAL GAS - NATURAL GAS
 CENTURYLINK - TELECOMMUNICATIONS
 SPECTRUM - CATV
 CITY OF HICKORY - WATER & SEWER

UTILITIES BY OTHERS

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.



BEGIN CONSTRUCTION
 -Y4C- POT Sta. 10+00.00

-Y5A- POT Sta. 10+00.00
 -Y4- POC Sta. 14+75.00

-Y4- PT Sta. 15+95.98

PROPOSED DUKE OVERHEAD POWER AND SPECTRUM CATV

PROPOSED CENTURYLINK TELECOMMUNICATIONS AERIAL TELE AND FIBER OPTIC

PREVIOUSLY INSTALLED PER AUTHORIZED ENCROACHMENT AGREEMENT PIEDMONT NATURAL GAS 8" GAS LINE

PROPOSED AERIAL DUKE ENERGY POWER, CENTURYLINK TELECOMMUNICATIONS AND SPECTRUM CATV

PROPOSED DUKE OVERHEAD POWER AND SPECTRUM CATV

-Y4C- POT Sta. 12+00.00

-Y5A- PC Sta. 10+39.30

-Y5A- PT Sta. 11+68.90

MATCHLINE -Y5A- STA. 13+50 SEE SHEET UO-5

MATCHLINE -Y4- STA. 20+80.00 SEE SHEET UO-5

MATCHLINE -Y7- STA. 126+00 SEE SHEET UO-5

NOTE:
 1. ALL EXISTING POWER ROUTING/CONNECTIVITY PROVIDED BY; DUKE ENERGY AND GOOGLE EARTH

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UTILITIES BY OTHERS

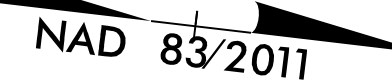
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.

MATCHLINE -Y7- STA. 140+50
SEE SHEET UO-5

MATCHLINE -Y5B- STA. 18+00
SEE SHEET UO-5

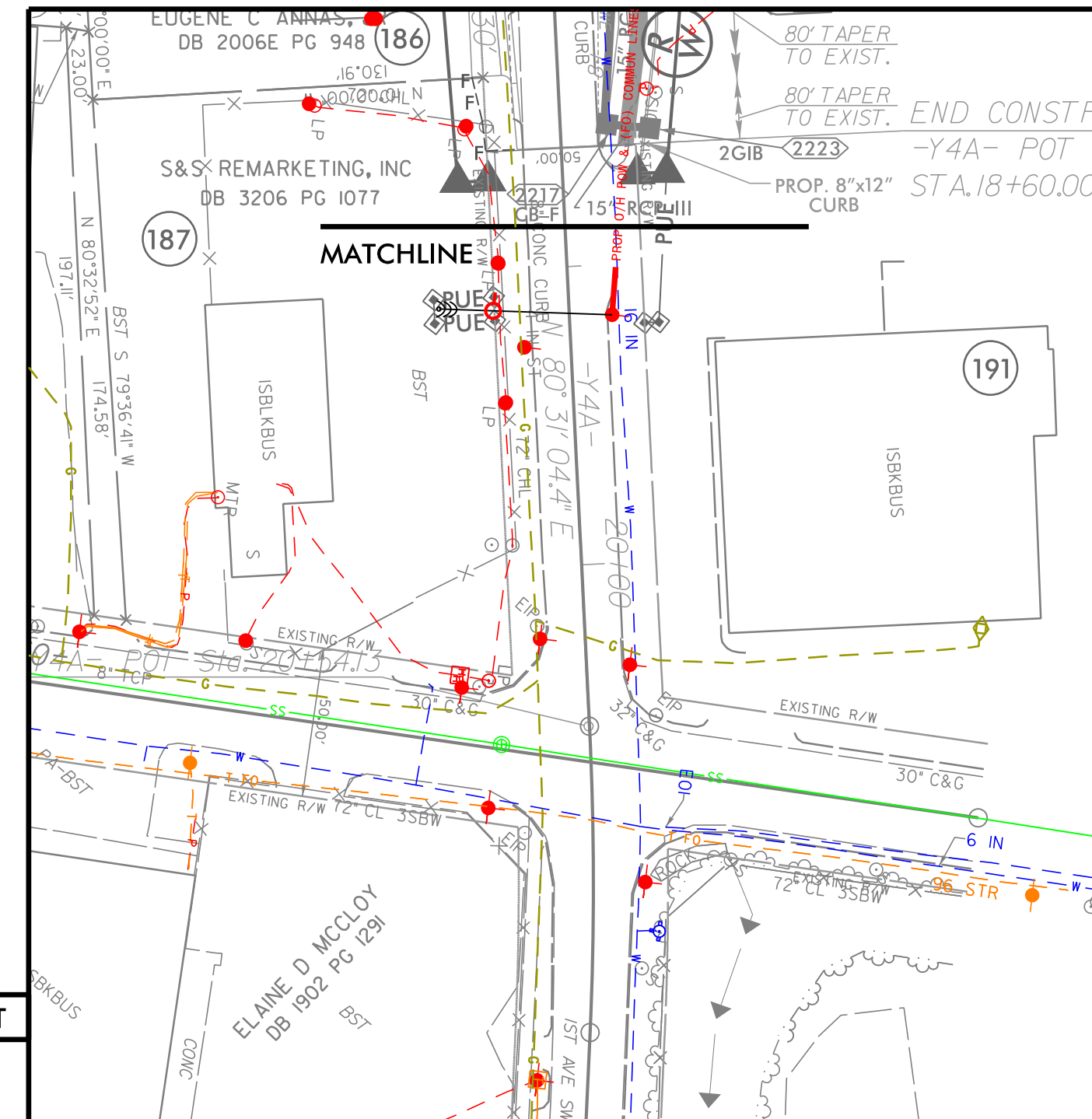
MATCHLINE -Y4- STA. 34+80.00
SEE SHEET UO-5

MATCHLINE -Y4D- STA. 12+50.00
SEE SHEET UO-5



INSET:

DETAIL OF DUKE ENERGY'S RELOCATION WORK THAT HAS BEEN OBSTRUCTED BY PLAN SHEET DETAILS



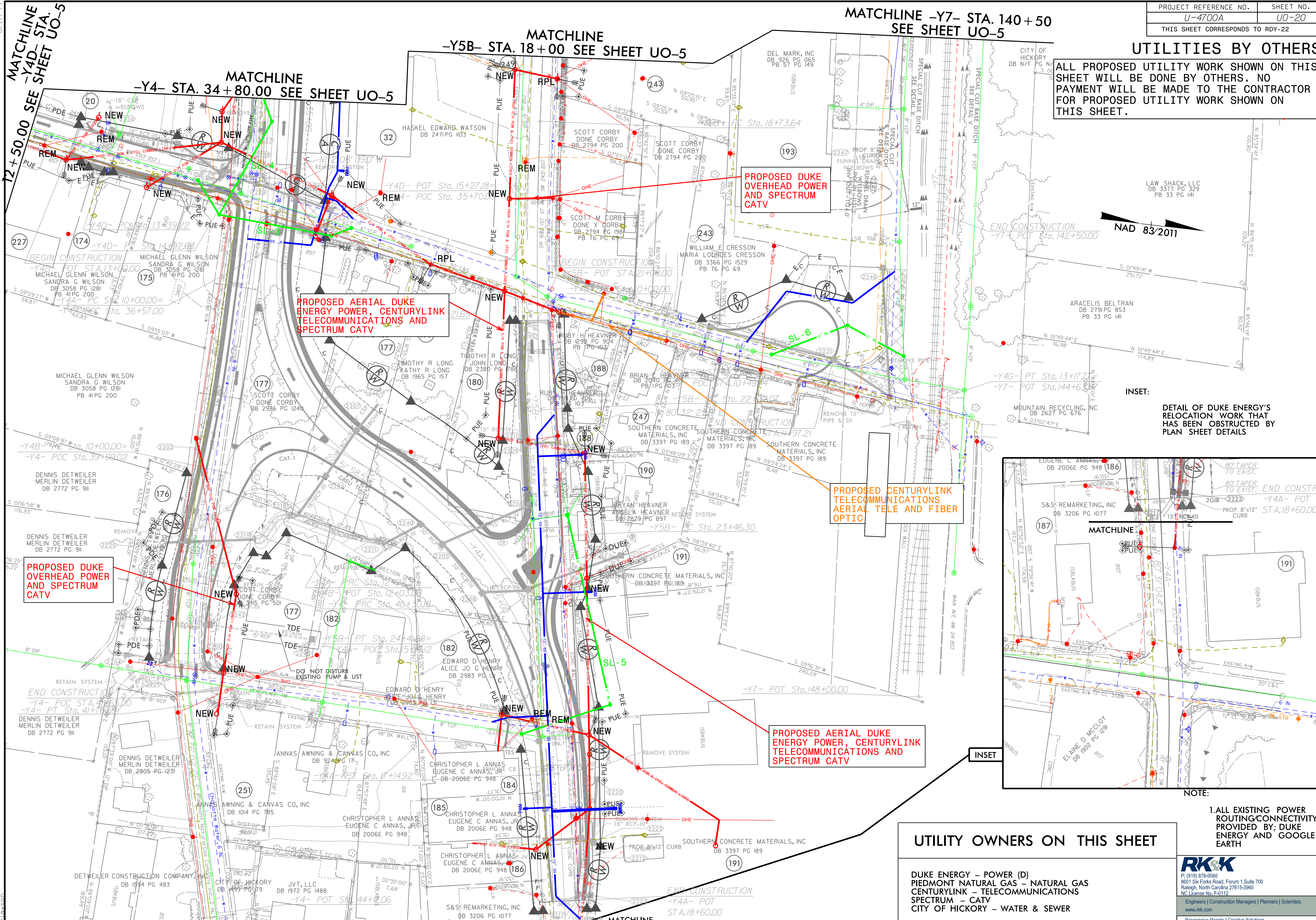
NOTE:

1. ALL EXISTING POWER ROUTING/CONNECTIVITY PROVIDED BY; DUKE ENERGY AND GOOGLE EARTH

UTILITY OWNERS ON THIS SHEET

- DUKE ENERGY - POWER (D)
- PIEDMONT NATURAL GAS - NATURAL GAS
- CENTURYLINK - TELECOMMUNICATIONS
- SPECTRUM - CATV
- CITY OF HICKORY - WATER & SEWER

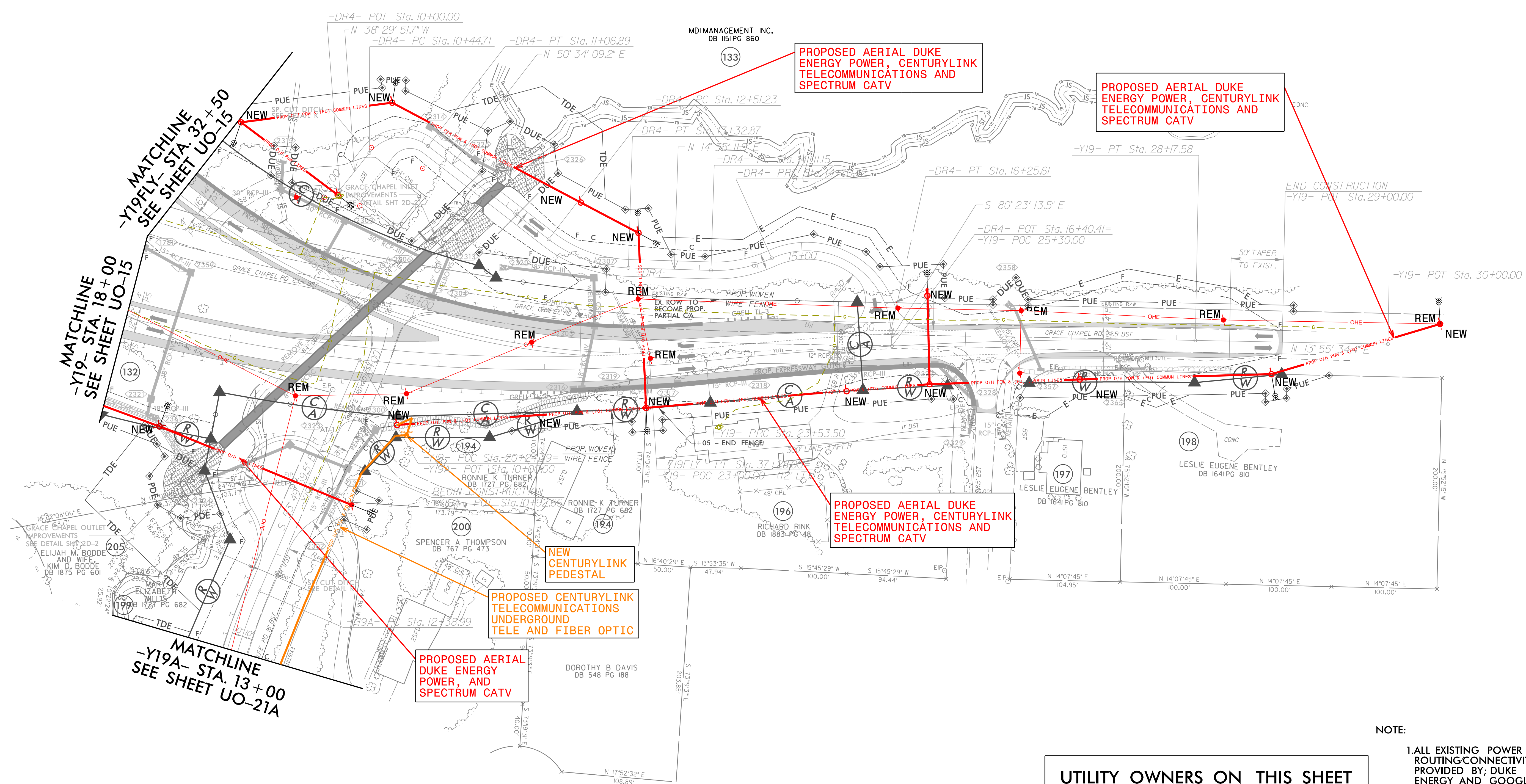
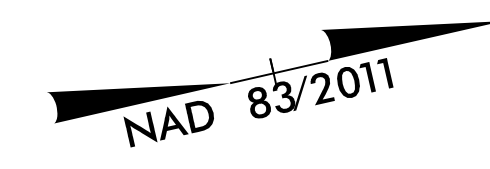
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UTILITIES BY OTHERS

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.



PROPOSED AERIAL DUKE ENERGY POWER, CENTURYLINK TELECOMMUNICATIONS AND SPECTRUM CATV

PROPOSED AERIAL DUKE ENERGY POWER, CENTURYLINK TELECOMMUNICATIONS AND SPECTRUM CATV

PROPOSED AERIAL DUKE ENERGY POWER, CENTURYLINK TELECOMMUNICATIONS AND SPECTRUM CATV

PROPOSED CENTURYLINK TELECOMMUNICATIONS UNDERGROUND TELE AND FIBER OPTIC

PROPOSED AERIAL DUKE ENERGY POWER, AND SPECTRUM CATV

NEW CENTURYLINK PEDESTAL

UTILITY OWNERS ON THIS SHEET

- DUKE ENERGY - POWER (D)
- PIEDMONT NATURAL GAS - NATURAL GAS
- CENTURYLINK - TELECOMMUNICATIONS
- SPECTRUM - CATV
- CALDWELL COUNTY - WATER
- CITY OF HICKORY - SEWER

NOTE:

1. ALL EXISTING POWER ROUTING/CONNECTIVITY PROVIDED BY: DUKE ENERGY AND GOOGLE EARTH



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