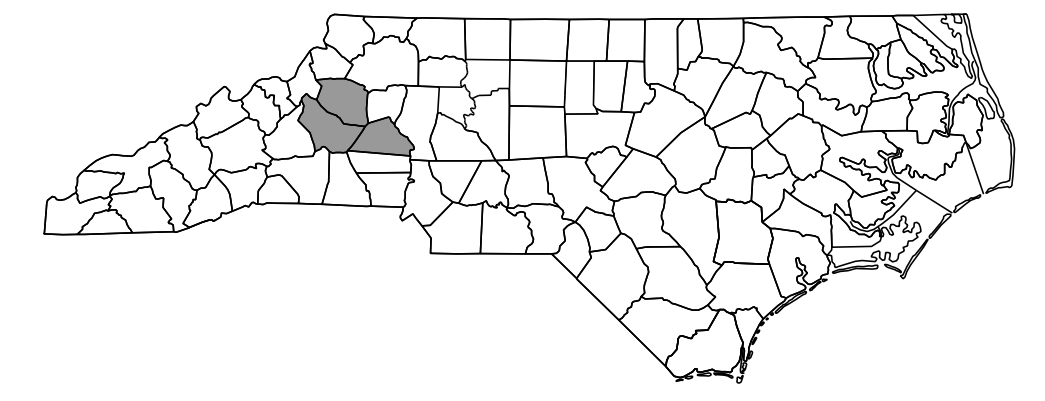


STATE PROJECT REFERENCE NO.	SHEET NO.
U-4700A	UC-1

PRELIMINARY PLANS  
DO NOT USE FOR CONSTRUCTION  
INCOMPLETE PLANS  
DO NOT USE FOR R/W ACQUISITION



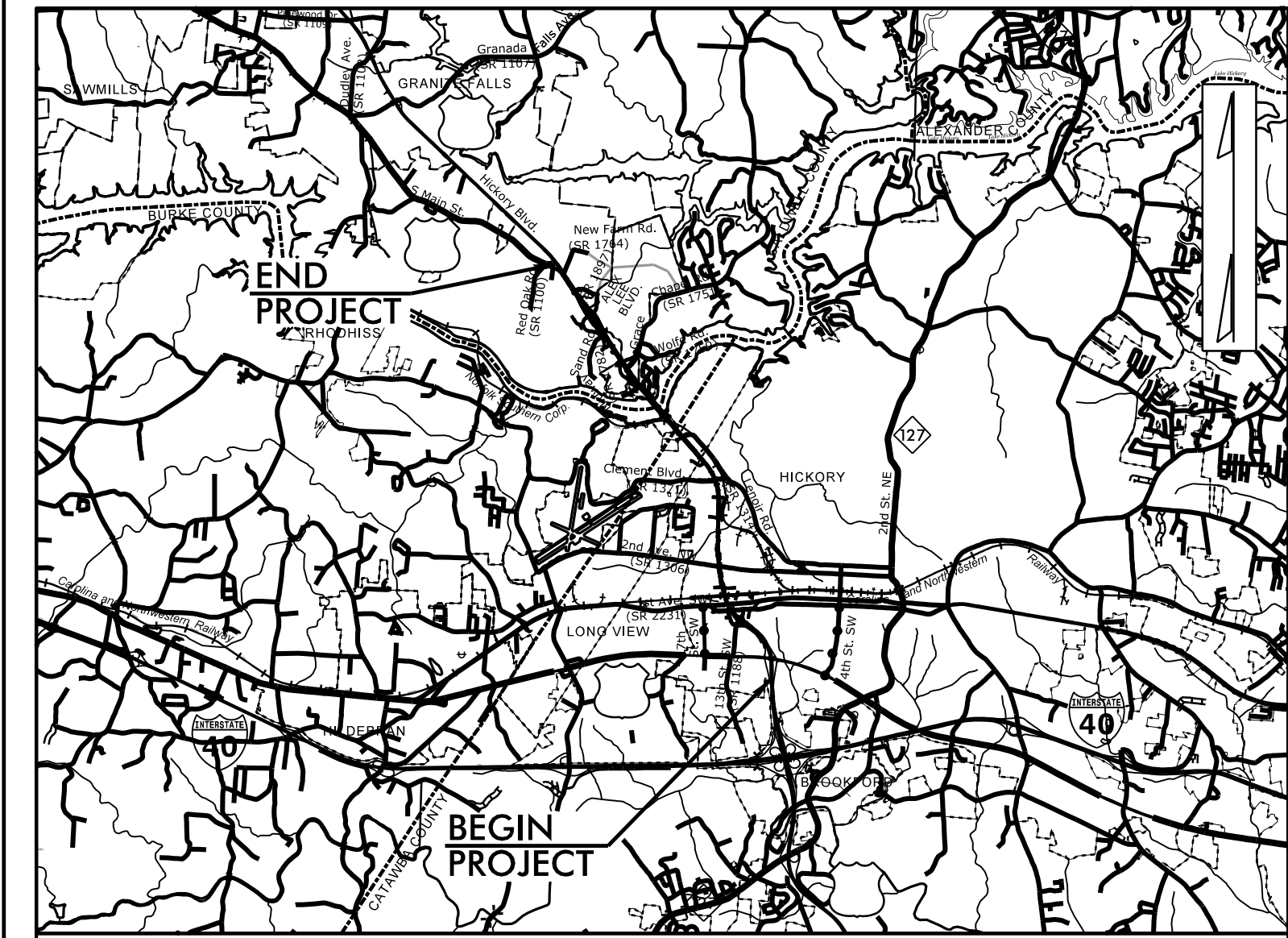
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

UTILITY CONSTRUCTION PLANS  
CATAWBA, BURKE & CALDWELL COUNTIES

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

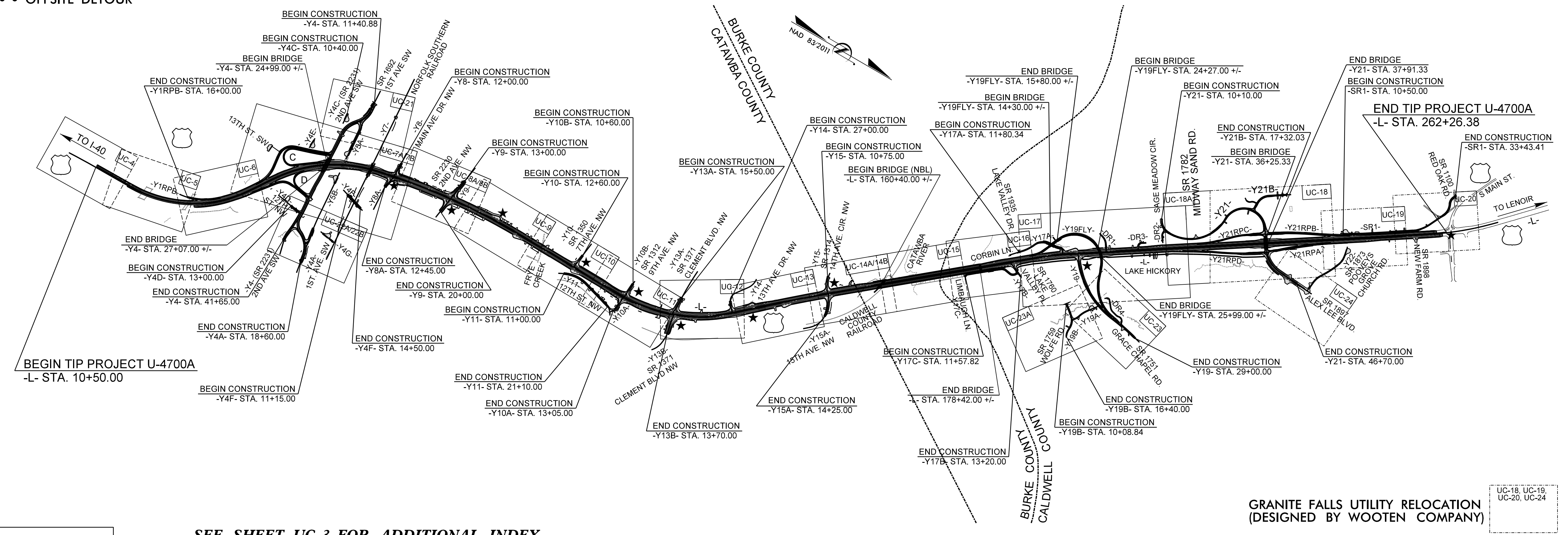
TYPE OF WORK: WATER, FORCEMAIN AND SANITARY SEWER RELOCATIONS

S-132: 90% UC PLANS  
DATE: 08/03/22



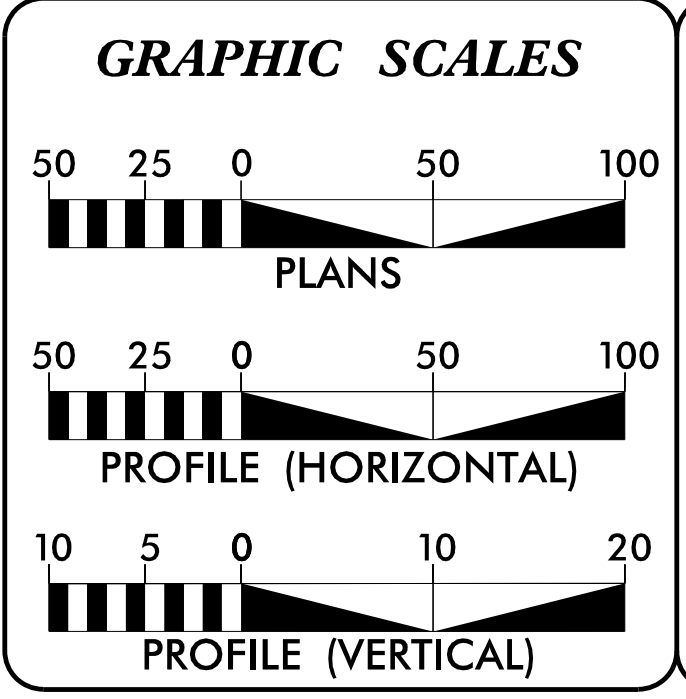
VICINITY MAP (NTS)

••• OFFSITE DETOUR



TIP PROJECT: U-4700A

CONTRACT:



**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION:
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOLOGY
UC-3	NOTES
UC-3A	CITY OF HICKORY WATER DETAILS
UC-3B	CITY OF HICKORY SEWER DETAILS
UC-3C	CALDWELL COUNTY WATER DETAILS
UC-3D	GRANITE FALLS WATER DETAILS (BY OTHERS)
UC-3E	UTILITY CONSTRUCTION SHEETS
UC-4 THRU UC-18, UC-21 THRU UC-23	UTILITY CONSTRUCTION SHEETS (BY OTHERS)
UC-18A THRU UC-20, UC-24	WATER PROFILE SHEETS
UC-25 THRU UC-43	SEWER PROFILE SHEETS
UC-44 THRU UC-50	

**WATER AND SEWER OWNERS ON PROJECT**

(A) WATER, SEWER: CITY OF HICKORY

(B) WATER: GRANITE FALLS

(C) WATER: CALDWELL COUNTY

PREPARED IN THE OFFICE OF

P: (919) 878-8660  
8601 Six Forks Road, Forum 1, Suite 700  
Raleigh, North Carolina 27615-3990  
NC License No. F-0112  
Engineers | Construction Managers | Planners | Scientists  
www.rk.com  
Responsive People | Creative Solutions

Howard Woodall, P.E. PROJECT UTILITY ENGINEER  
Mark Hood, E.I.T. PROJECT UTILITY DESIGNER  
Nate Harris PROJECT UTILITY CADD

**UTILITY ENGINEER**

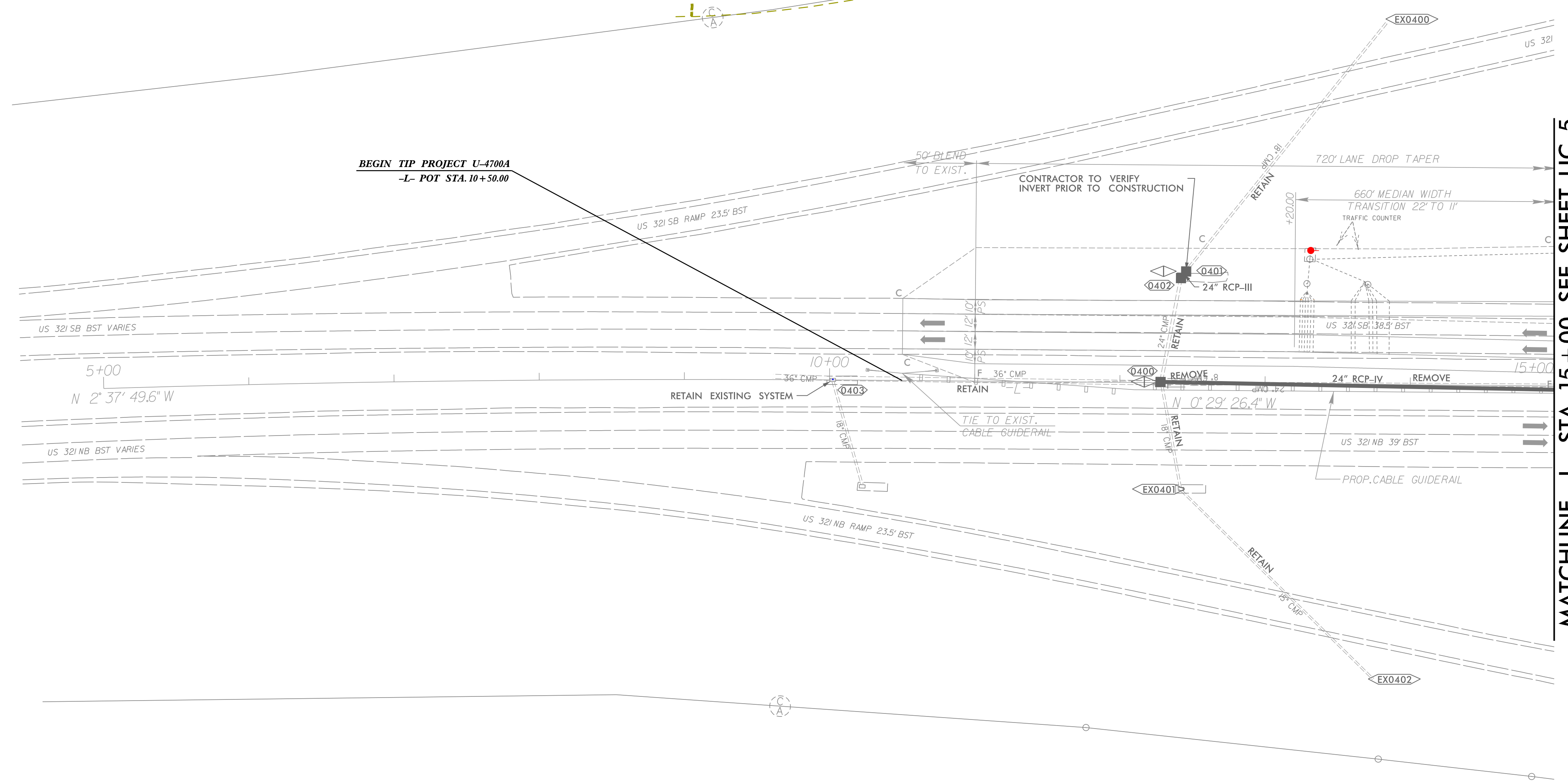
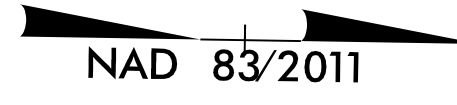
SEAL

**DIVISION OF HIGHWAYS UTILITIES UNIT**  
1555 MAIL SERVICES CENTER  
RALEIGH NC 27699-1555  
PHONE (919) 707-6690  
FAX (919) 250-4151

Michael Bright WESTERN UTILITIES MANAGER  
Jong-Tae Yoon, P.E. SENIOR UTILITIES ENGINEER  
Amy Dupree York REGIONAL UTILITY COORDINATOR  
Chad Drewery DIVISION 12 UTILITY ENGINEER

PROJECT REFERENCE NO. U-4700A	SHEET NO. UC-4
RW SHEET NO. 4	UTILITY ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> <b>UNLESS ALL SIGNATURES COMPLETED</b>	

THERE ARE NO ANTICIPATED WATER OR SEWER CONFLICTS ON THIS SHEET.



REVISIONS

MATCHLINE -L- STA. 15+00 SEE SHEET UC-5

8/17/99

8/13/2023  
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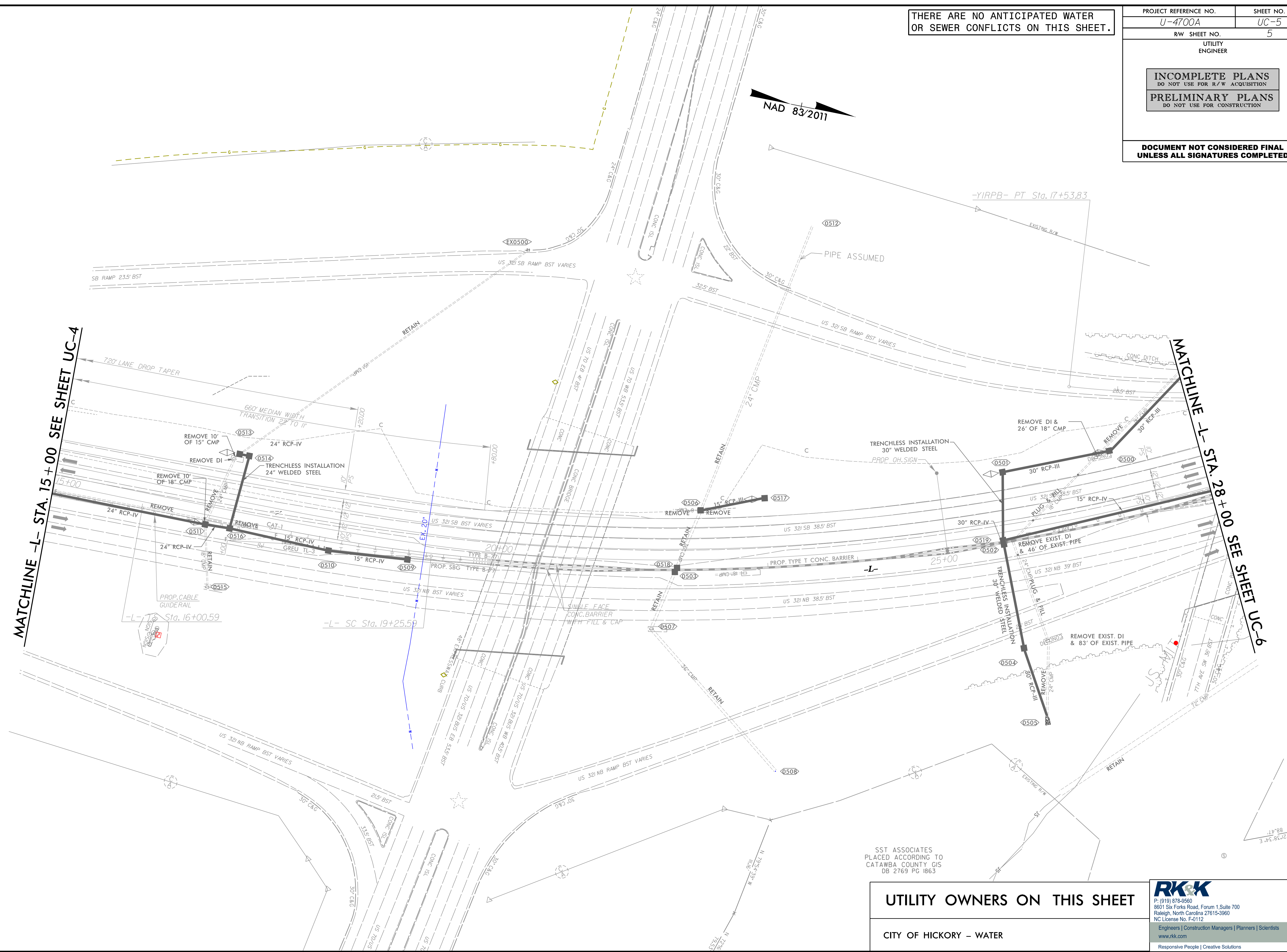
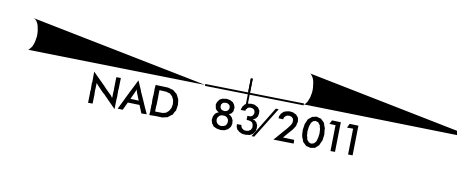
UTILITY OWNERS ON THIS SHEET

NO UTILITY OWNERS ON THIS SHEET.

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 Raleigh, North Carolina 27615-3960  
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PROJECT REFERENCE NO. U-4700A	SHEET NO. UC-5
R/W SHEET NO. 5	UTILITY ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> <b>UNLESS ALL SIGNATURES COMPLETED</b>	

THERE ARE NO ANTICIPATED WATER OR SEWER CONFLICTS ON THIS SHEET.



MATCHLINE -L- STA. 15+00 SEE SHEET UC-4

MATCHLINE -L- STA. 28+00 SEE SHEET UC-6

REVISIONS

8/17/99  
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SST ASSOCIATES  
PLACED ACCORDING TO CATAWBA COUNTY GIS DB 2769 PG 1863

SST ASSOCIATES  
PLACED ACCORDING TO  
CATAWBA COUNTY GIS  
DB 2769 PG 1863

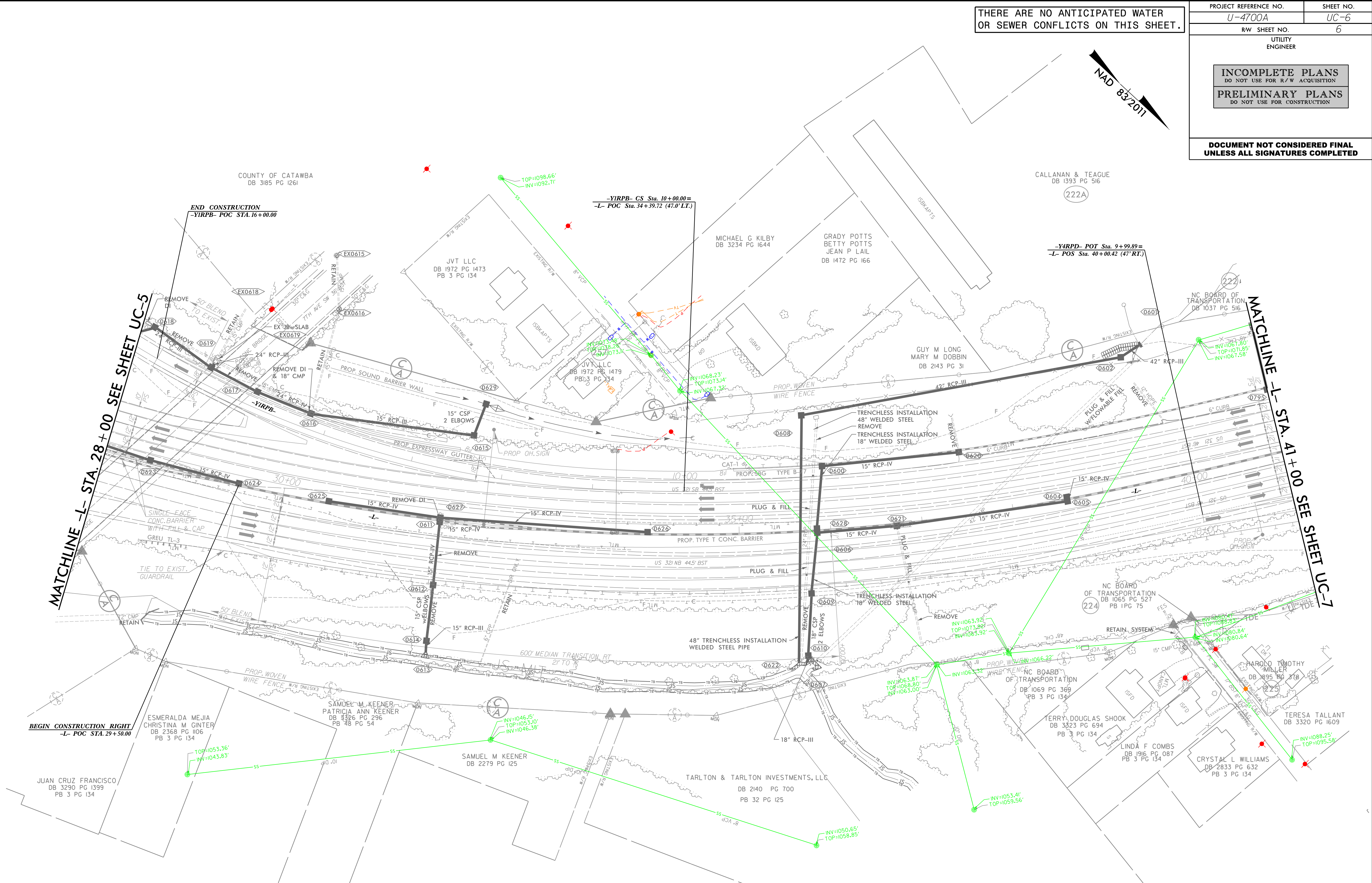
**UTILITY OWNERS ON THIS SHEET**

CITY OF HICKORY - WATER

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PROJECT REFERENCE NO. U-4700A	SHEET NO. UC-6
RW SHEET NO. UTILITY ENGINEER	6
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> <b>UNLESS ALL SIGNATURES COMPLETED</b>	

THERE ARE NO ANTICIPATED WATER OR SEWER CONFLICTS ON THIS SHEET.



REVISIONS

MATCHLINE -L- STA. 28+00 SEE SHEET UC-5

MATCHLINE -L- STA. 41+00 SEE SHEET UC-7

**BEGIN CONSTRUCTION RIGHT**  
-L- POC STA. 29+50.00

**END CONSTRUCTION**  
-YIRPB- POC STA. 16+00.00

-YIRPB- CS Sta. 10+00.00=  
-L- POC Sta. 34+39.72 (47.0' LT.)

-YIRPD- POT Sta. 9+99.89=  
-L- POS Sta. 40+00.42 (47' RT.)

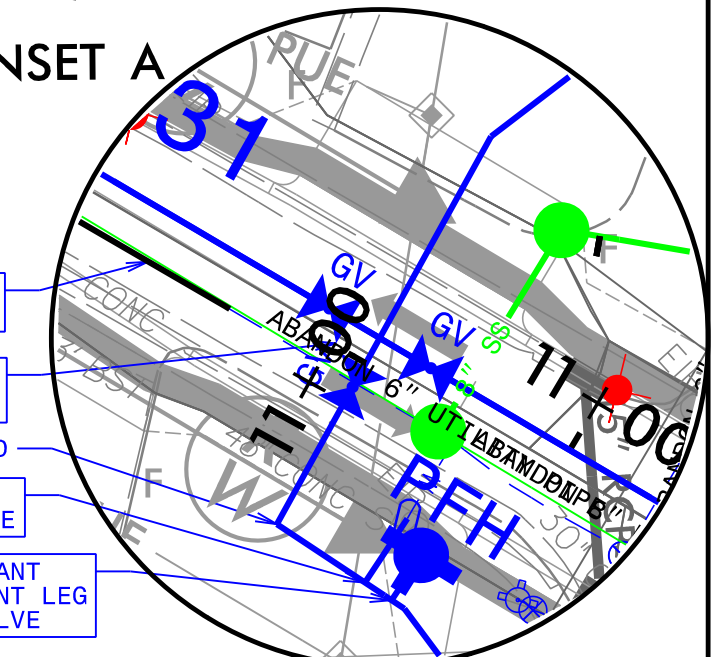
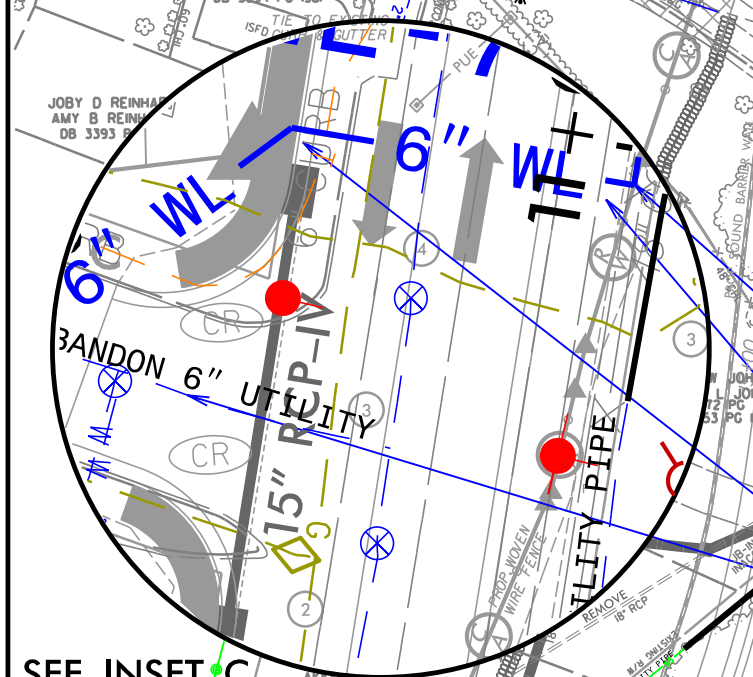
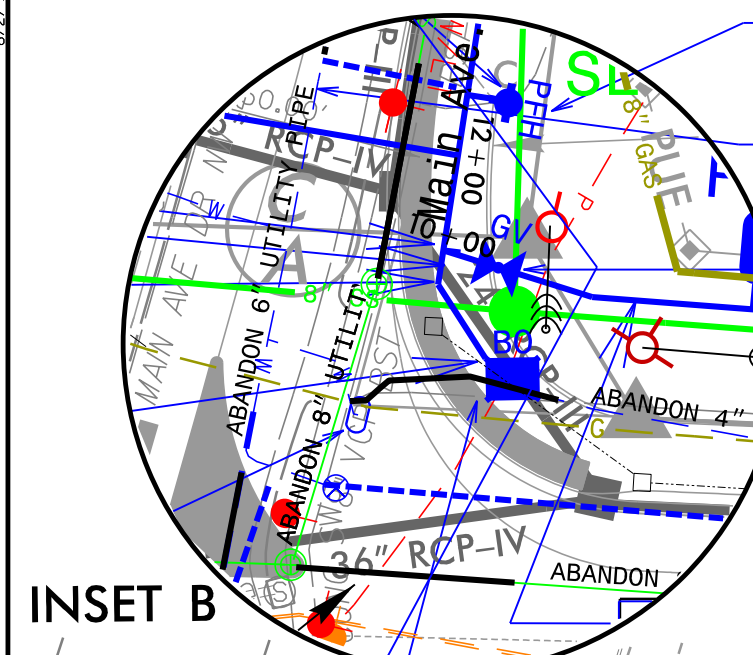
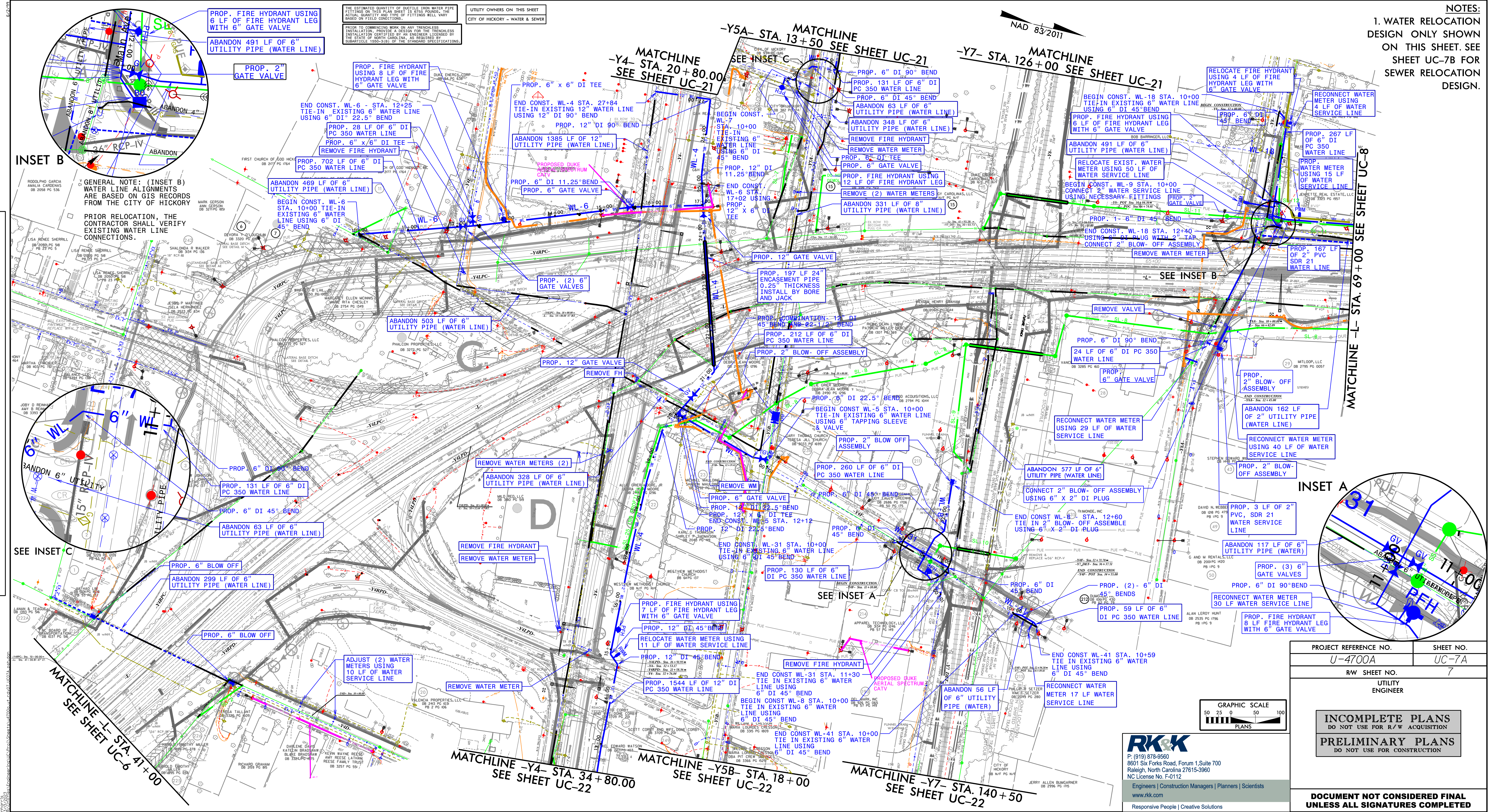
**UTILITY OWNERS ON THIS SHEET**

CITY OF HICKORY – WATER & SEWER

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9/17/2023  
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PROJECT REFERENCE NO.	SHEET NO.
U-4700A	UC-7A
R/W SHEET NO.	7
UTILITY ENGINEER	
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

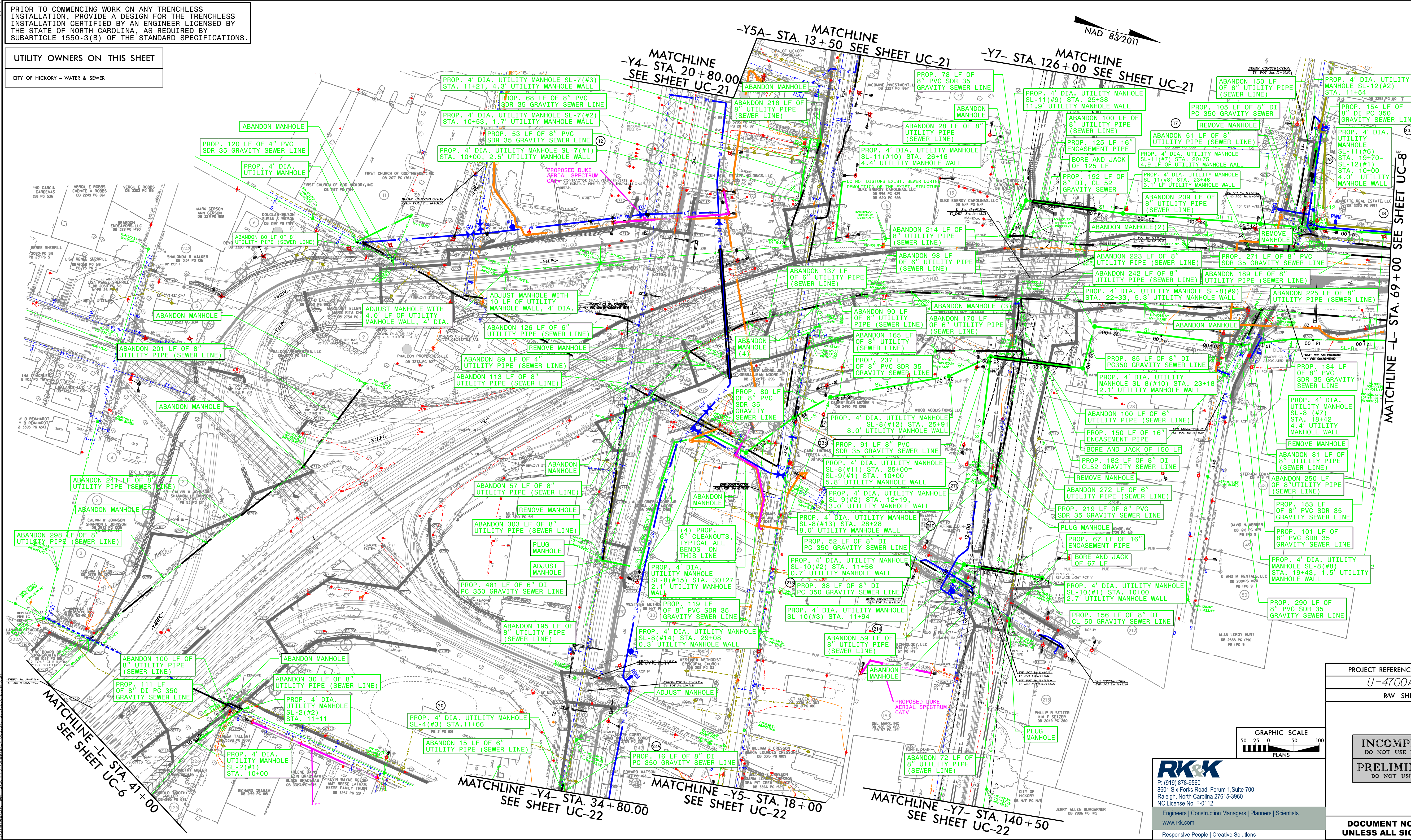
**RK&K**  
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PRIOR TO COMMENCING WORK ON ANY TRENCHLESS INSTALLATION, PROVIDE A DESIGN FOR THE TRENCHLESS INSTALLATION CERTIFIED BY AN ENGINEER LICENSED BY THE STATE OF NORTH CAROLINA, AS REQUIRED BY SUBARTICLE 1550-3(B) OF THE STANDARD SPECIFICATIONS.

UTILITY OWNERS ON THIS SHEET

CITY OF HICKORY - WATER & SEWER

NOTES:  
1. SEWER RELOCATION DESIGN ONLY ON THIS SHEET. SEE SHEET UC-7A FOR WATER RELOCATION DESIGN.



PROJECT REFERENCE NO.	SHEET NO.
U-4700A	UC-7B
RW SHEET NO.	7
UTILITY ENGINEER	
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION <b>PRELIMINARY PLANS</b> DO NOT USE FOR CONSTRUCTION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	

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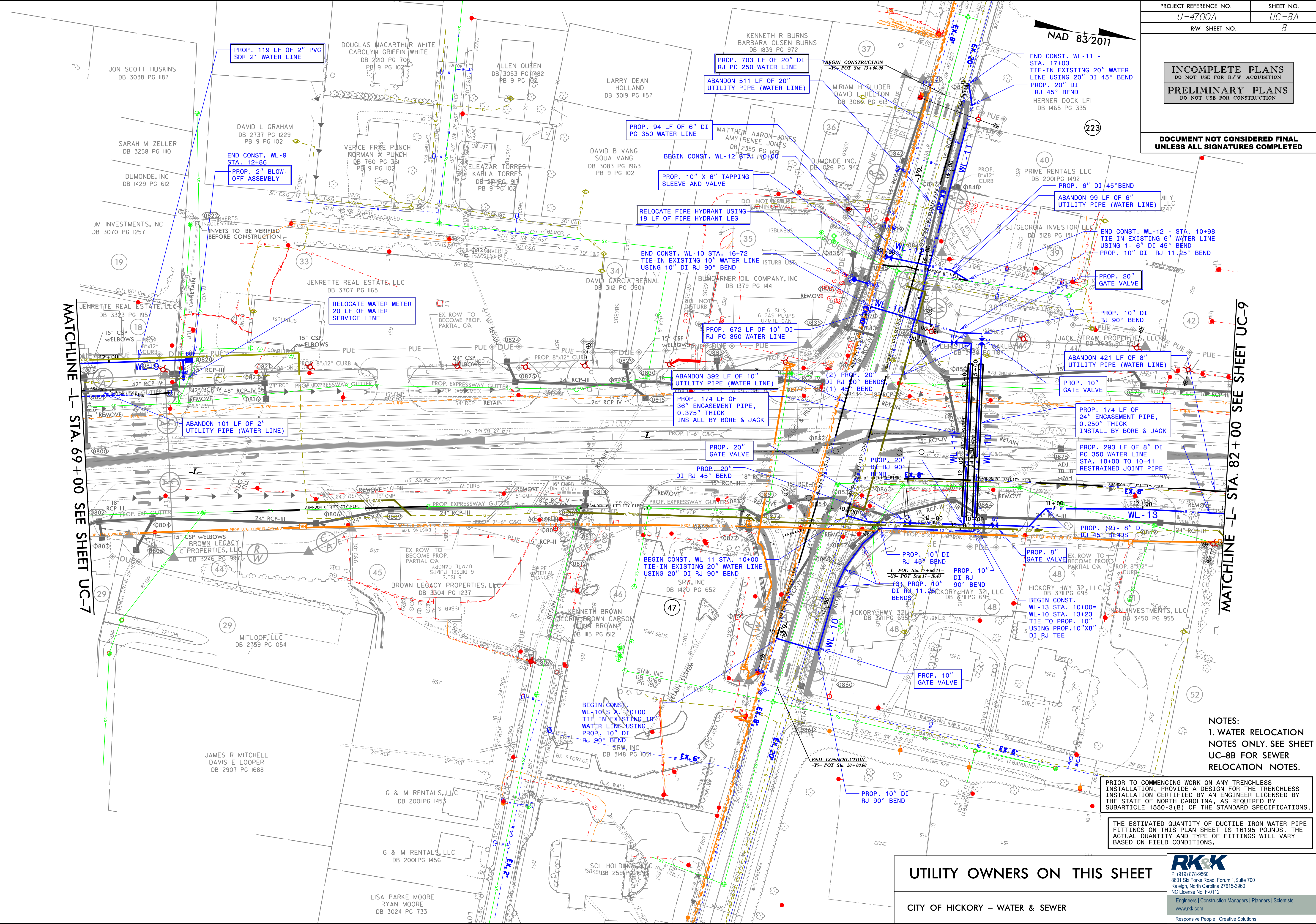
**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

**PRELIMINARY PLANS**  
DO NOT USE FOR CONSTRUCTION

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

8/17/19

NAD 83/2011



REVISIONS

MATCHLINE -L- STA. 69+00 SEE SHEET UC-7

MATCHLINE -L- STA. 82+00 SEE SHEET UC-9

NOTES:  
1. WATER RELOCATION NOTES ONLY. SEE SHEET UC-8B FOR SEWER RELOCATION NOTES.

BEFORE COMMENCING WORK ON ANY TRENCHLESS INSTALLATION, PROVIDE DESIGN FOR THE TRENCHLESS INSTALLATION CERTIFIED BY AN ENGINEER LICENSED BY THE STATE OF NORTH CAROLINA, AS REQUIRED BY SUBARTICLE 1550-3(B) OF THE STANDARD SPECIFICATIONS.

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 16195 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

**UTILITY OWNERS ON THIS SHEET**

CITY OF HICKORY - WATER & SEWER

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9/17/2023  
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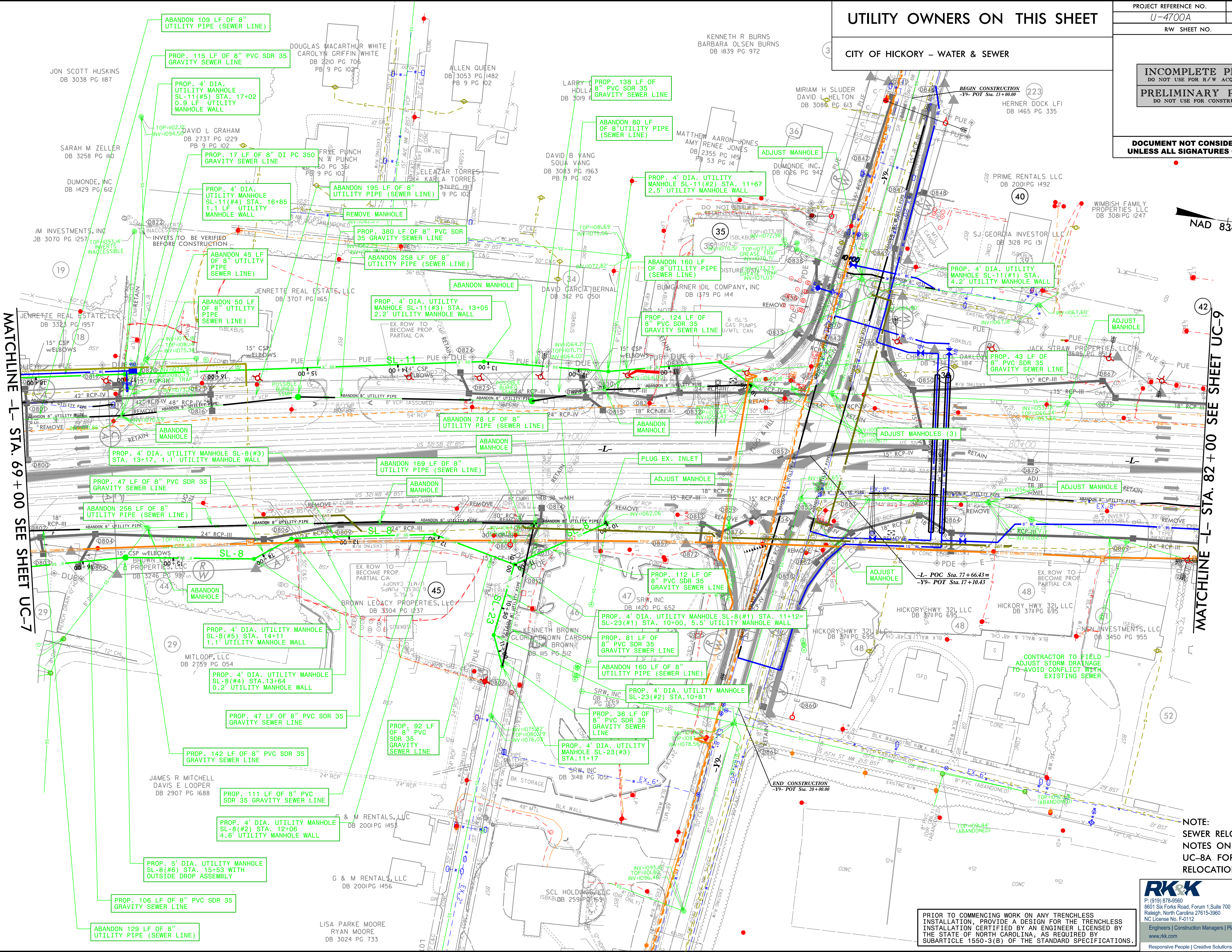
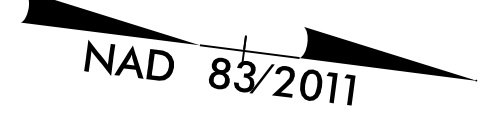
### UTILITY OWNERS ON THIS SHEET

CITY OF HICKORY - WATER & SEWER

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

**PRELIMINARY PLANS**  
DO NOT USE FOR CONSTRUCTION

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



MATCHLINE -L- STA. 69+00 SEE SHEET UC-7

MATCHLINE -L- STA. 82+00 SEE SHEET UC-9

REVISIONS

NOTE:  
SEWER RELOCATION  
NOTES ONLY. SEE SHEET  
UC-8A FOR WATER  
RELOCATION NOTES.

PRIOR TO COMMENCING WORK ON ANY TRENCHLESS  
INSTALLATION, PROVIDE A DESIGN FOR THE TRENCHLESS  
INSTALLATION CERTIFIED BY AN ENGINEER LICENSED BY  
THE STATE OF NORTH CAROLINA, AS REQUIRED BY  
SUBARTICLE 1550-3(B) OF THE STANDARD SPECIFICATIONS.

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THE ESTIMATED QUANTITY OF DUCTILE IRON WATER AND SEWER PIPE FITTINGS ON THIS PLAN SHEET IS 1210 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

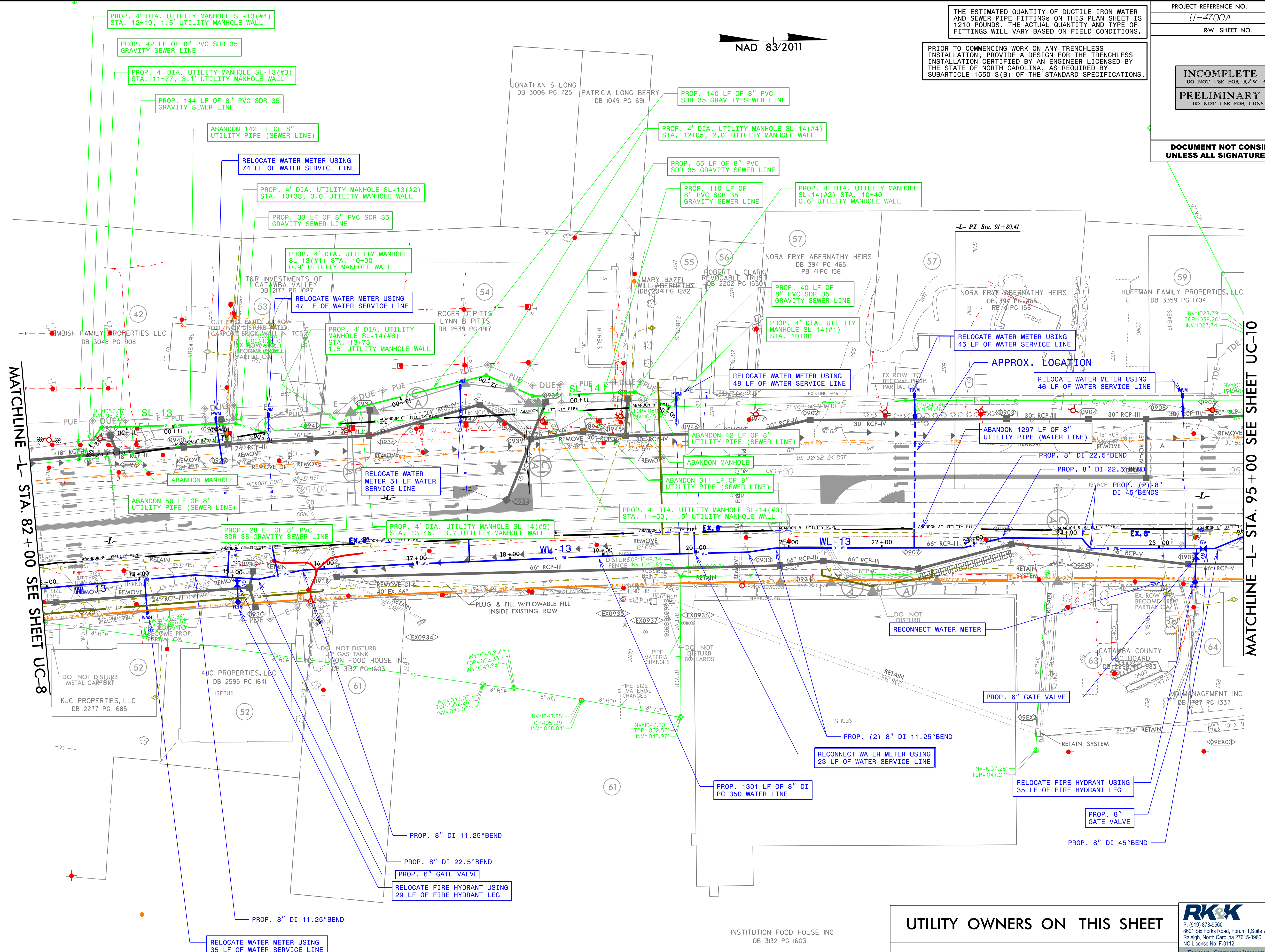
PRIOR TO COMMENCING WORK ON ANY TRENCHLESS INSTALLATION, PROVIDE A DESIGN FOR THE TRENCHLESS INSTALLATION CERTIFIED BY AN ENGINEER LICENSED BY THE STATE OF NORTH CAROLINA, AS REQUIRED BY SUBARTICLE 1550-3(B) OF THE STANDARD SPECIFICATIONS.

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

**PRELIMINARY PLANS**  
DO NOT USE FOR CONSTRUCTION

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

NAD 83/2011



REVISIONS

MATCHLINE -L- STA. 95+00 SEE SHEET UC-10

MATCHLINE -L- STA. 82+00 SEE SHEET UC-8

**UTILITY OWNERS ON THIS SHEET**

CITY OF HICKORY - WATER & SEWER

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INSTITUTION FOOD HOUSE INC  
DB 3132 PG 1603

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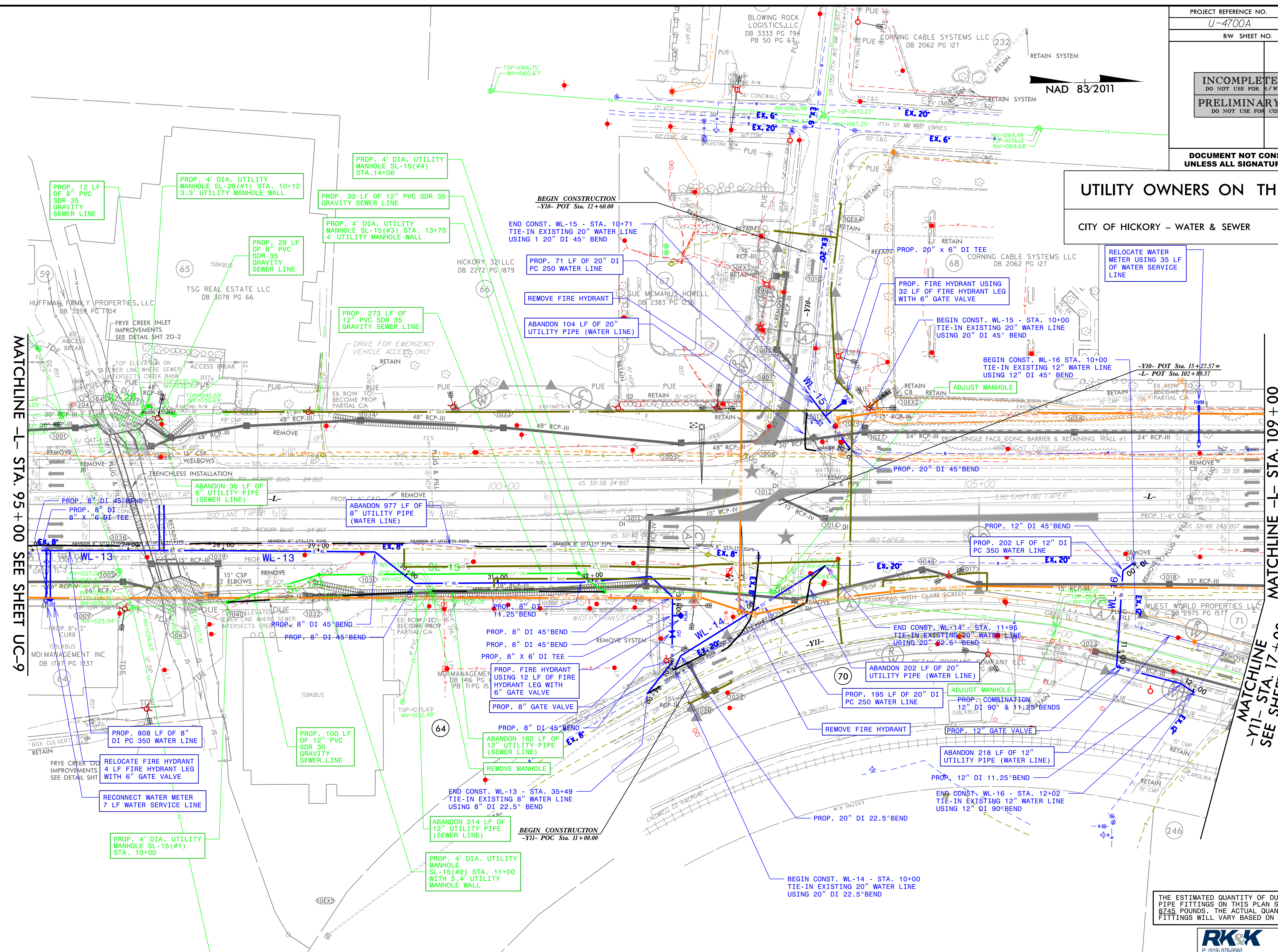
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R. Williams, Engineer in Charge, Project Sheets, U-4700A, U-4700B, U-4700C, U-4700D, U-4700E, U-4700F, U-4700G, U-4700H, U-4700I, U-4700J, U-4700K, U-4700L, U-4700M, U-4700N, U-4700O, U-4700P, U-4700Q, U-4700R, U-4700S, U-4700T, U-4700U, U-4700V, U-4700W, U-4700X, U-4700Y, U-4700Z

### UTILITY OWNERS ON THIS SHEET

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8/17/99

REVISIONS



MATCHLINE -L- STA. 95+00 SEE SHEET UC-9

MATCHLINE -L- STA. 109+00 SEE SHEET UC-11

MATCHLINE -YII- STA. 17+00 SEE SHEET UC-11

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

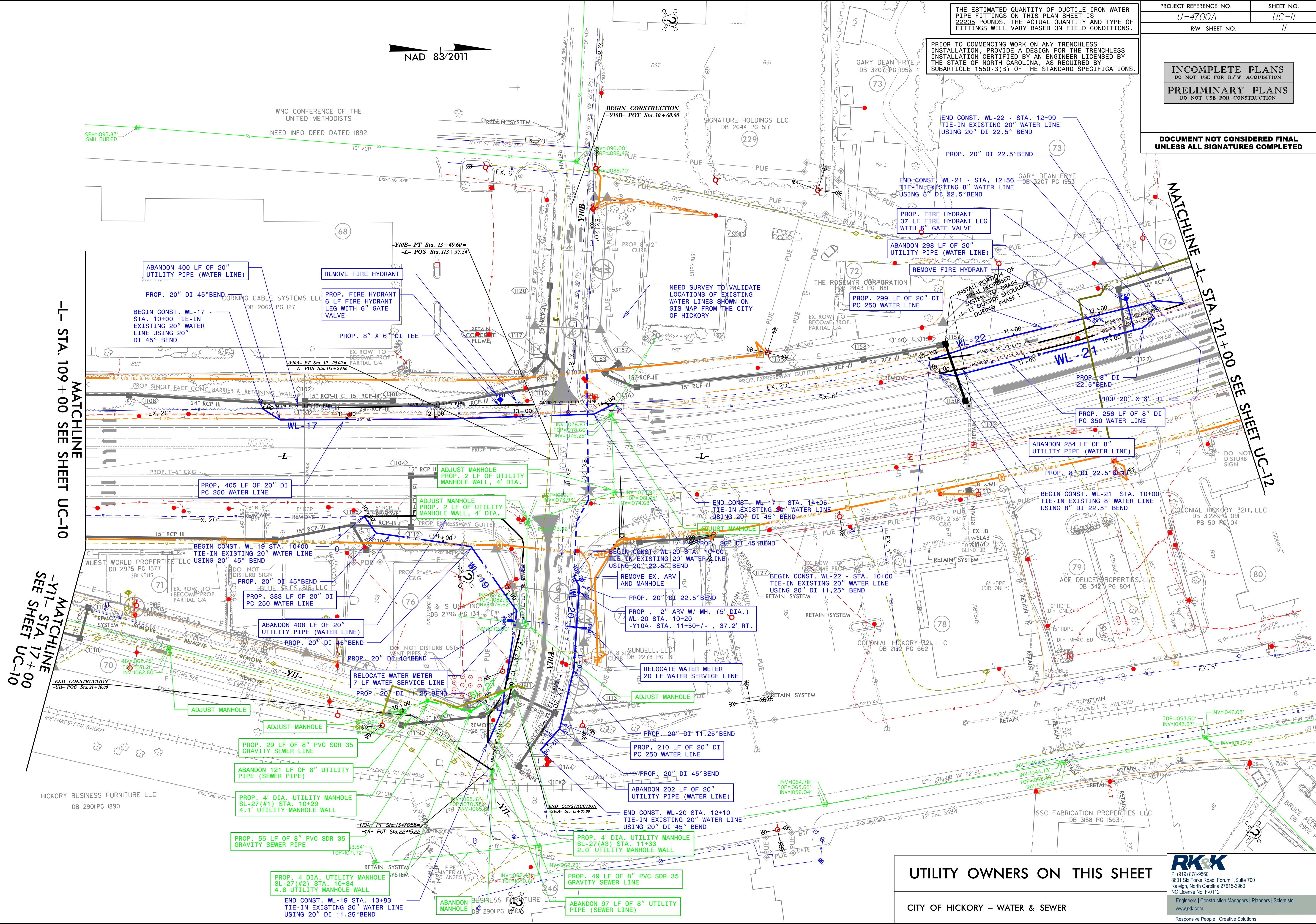
**PRELIMINARY PLANS**  
DO NOT USE FOR CONSTRUCTION

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

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 22905 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

PRIOR TO COMMENCING WORK ON ANY TRENCHLESS INSTALLATION, PROVIDE A DESIGN FOR THE TRENCHLESS INSTALLATION CERTIFIED BY AN ENGINEER LICENSED BY THE STATE OF NORTH CAROLINA, AS REQUIRED BY SUBARTICLE 1650-3(B) OF THE STANDARD SPECIFICATIONS.

NAD 83/2011



MATCHLINE -L- STA. 109+00 SEE SHEET UC-10

MATCHLINE -Y11- STA. 17+00 SEE SHEET UC-10

MATCHLINE -L- STA. 121+00 SEE SHEET UC-12

REVISIONS

**UTILITY OWNERS ON THIS SHEET**

CITY OF HICKORY - WATER & SEWER

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8/17/2023  
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UC11.dwg

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 4780 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

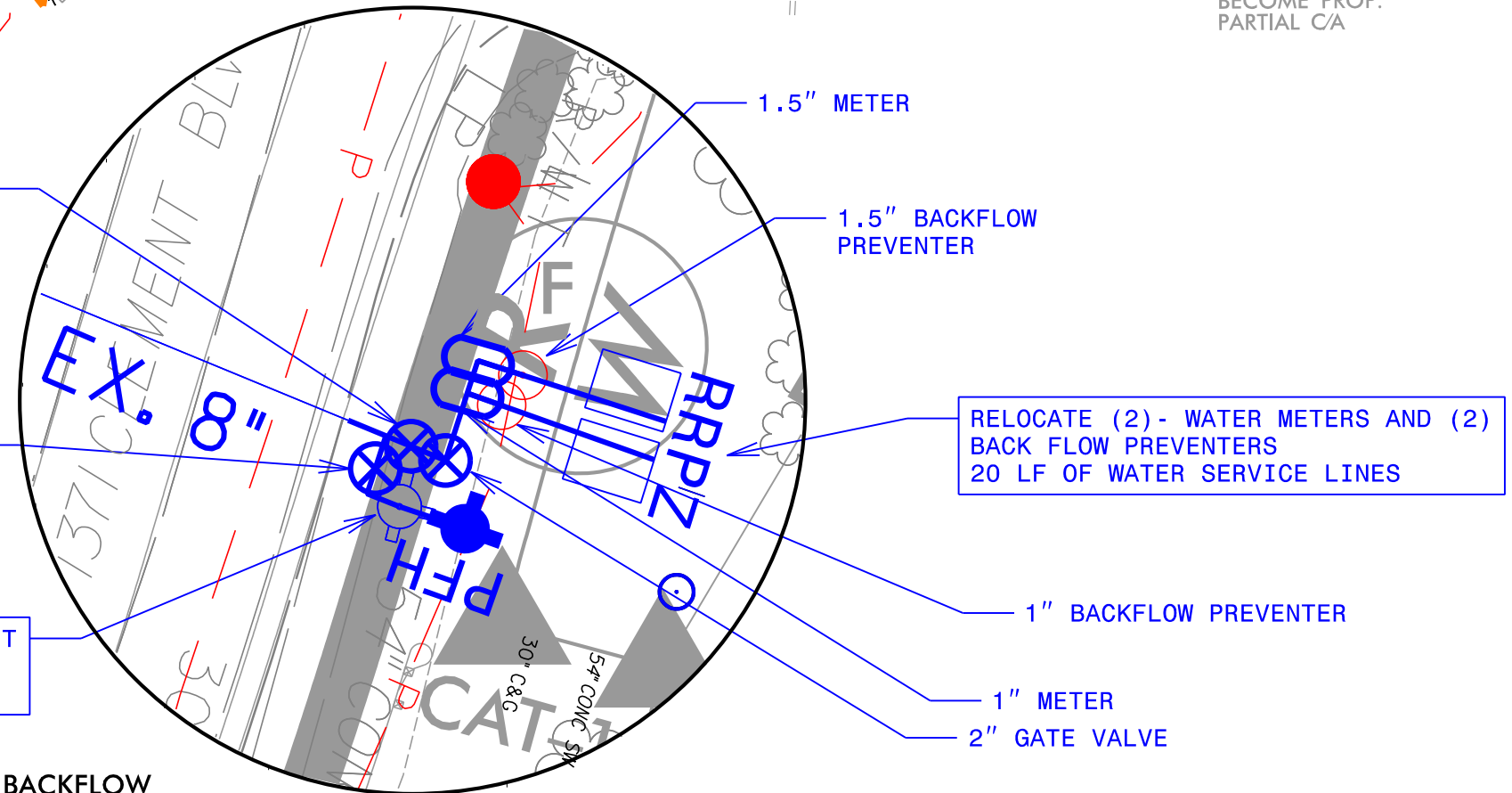
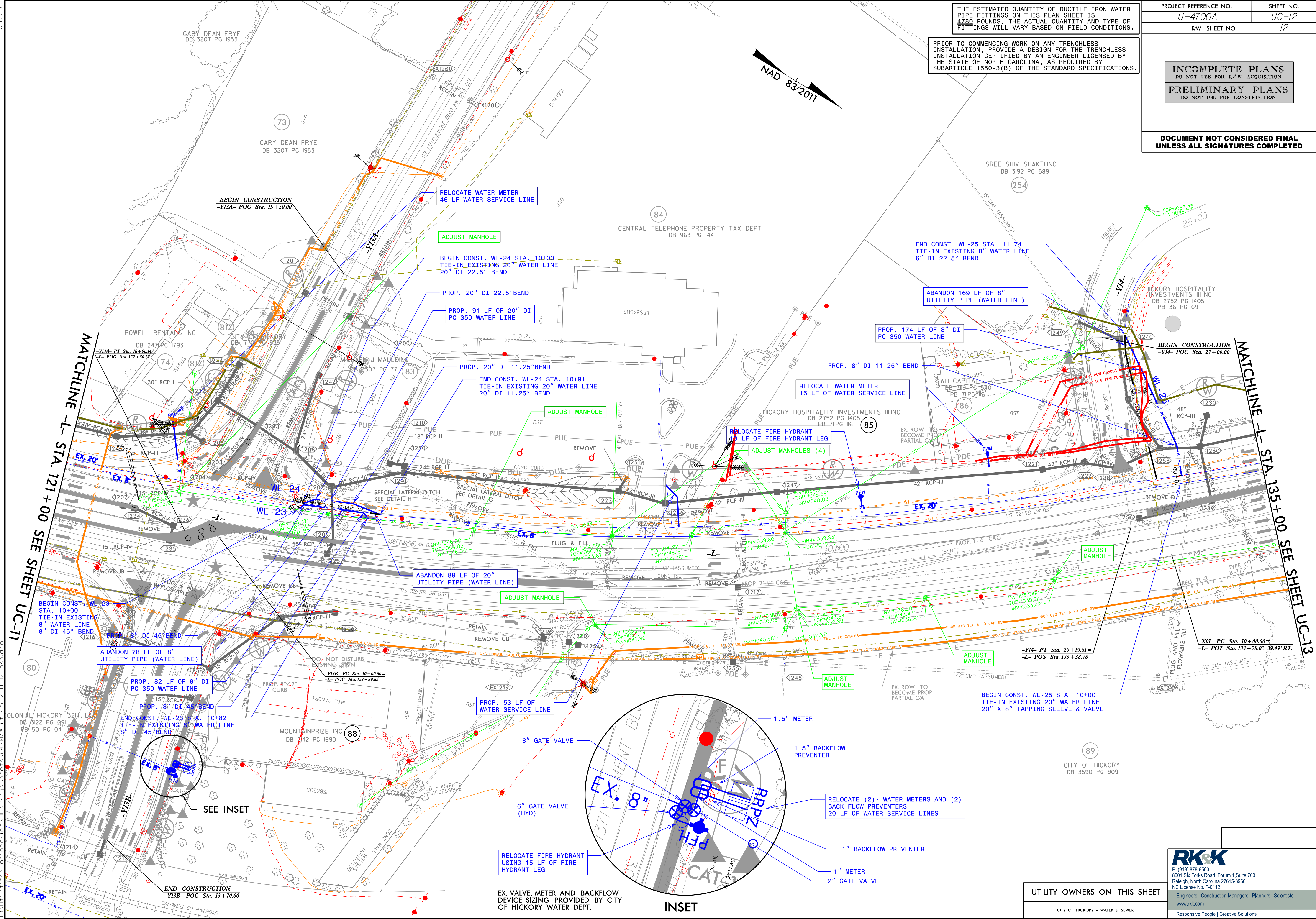
PRIOR TO COMMENCING WORK ON ANY TRENCHLESS INSTALLATION, PROVIDE A DESIGN FOR THE TRENCHLESS INSTALLATION CERTIFIED BY AN ENGINEER LICENSED BY THE STATE OF NORTH CAROLINA, AS REQUIRED BY SUBARTICLE 1550-3(B) OF THE STANDARD SPECIFICATIONS.

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

**PRELIMINARY PLANS**  
DO NOT USE FOR CONSTRUCTION

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

REVISIONS



EX. VALVE METER AND BACKFLOW DEVICE SIZING PROVIDED BY CITY OF HICKORY WATER DEPT.

UTILITY OWNERS ON THIS SHEET

CITY OF HICKORY - WATER & SEWER

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UTILITY ENGINEER

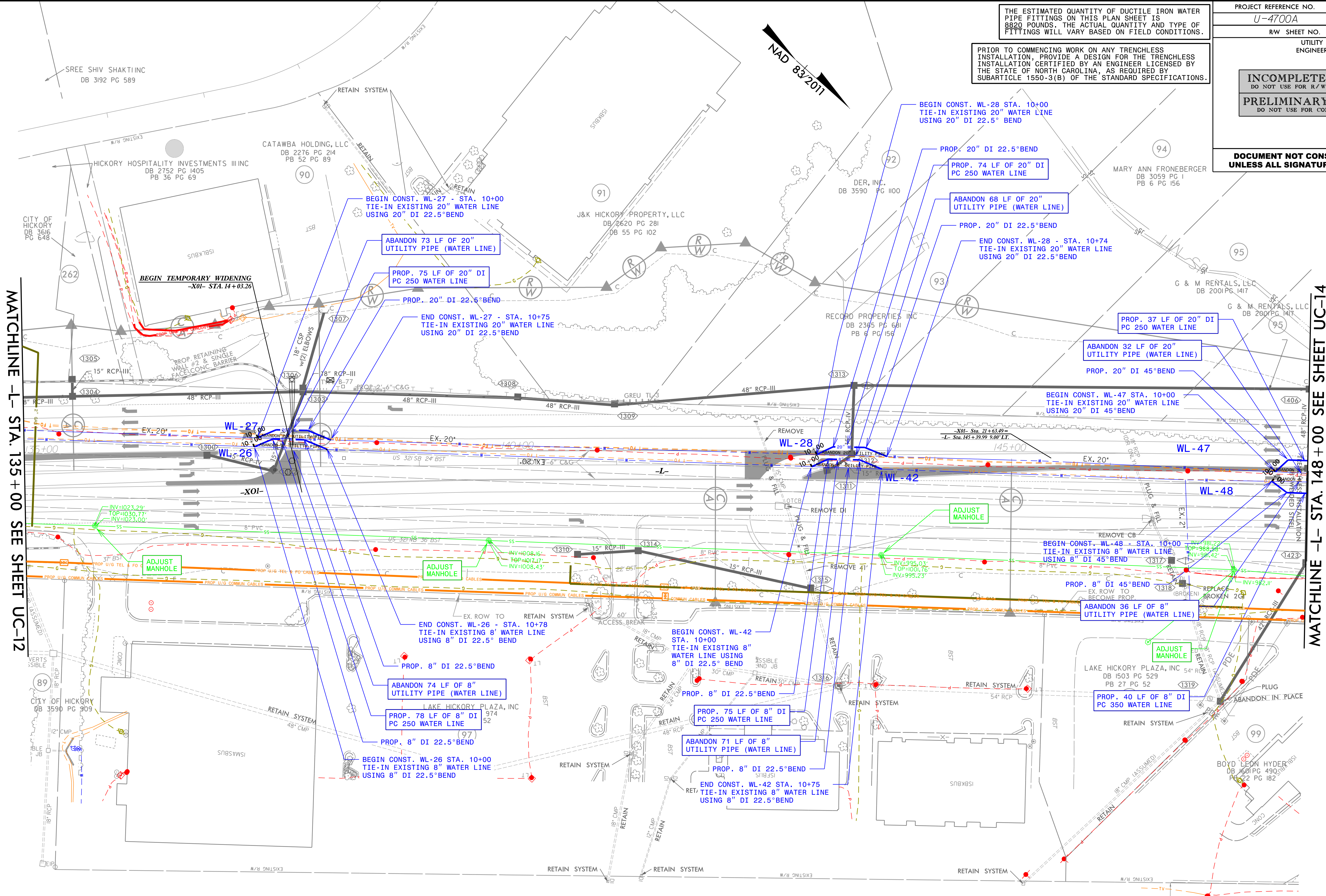
**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

**PRELIMINARY PLANS**  
DO NOT USE FOR CONSTRUCTION

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

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 8820 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

PRIOR TO COMMENCING WORK ON ANY TRENCHLESS INSTALLATION, PROVIDE A DESIGN FOR THE TRENCHLESS INSTALLATION CERTIFIED BY AN ENGINEER LICENSED BY THE STATE OF NORTH CAROLINA, AS REQUIRED BY SUBARTICLE 1550-3(B) OF THE STANDARD SPECIFICATIONS.



MATCHLINE -L- STA. 135+00 SEE SHEET UC-12

MATCHLINE -L- STA. 148+00 SEE SHEET UC-14

REVISIONS

**UTILITY OWNERS ON THIS SHEET**

CITY OF HICKORY - WATER & SEWER

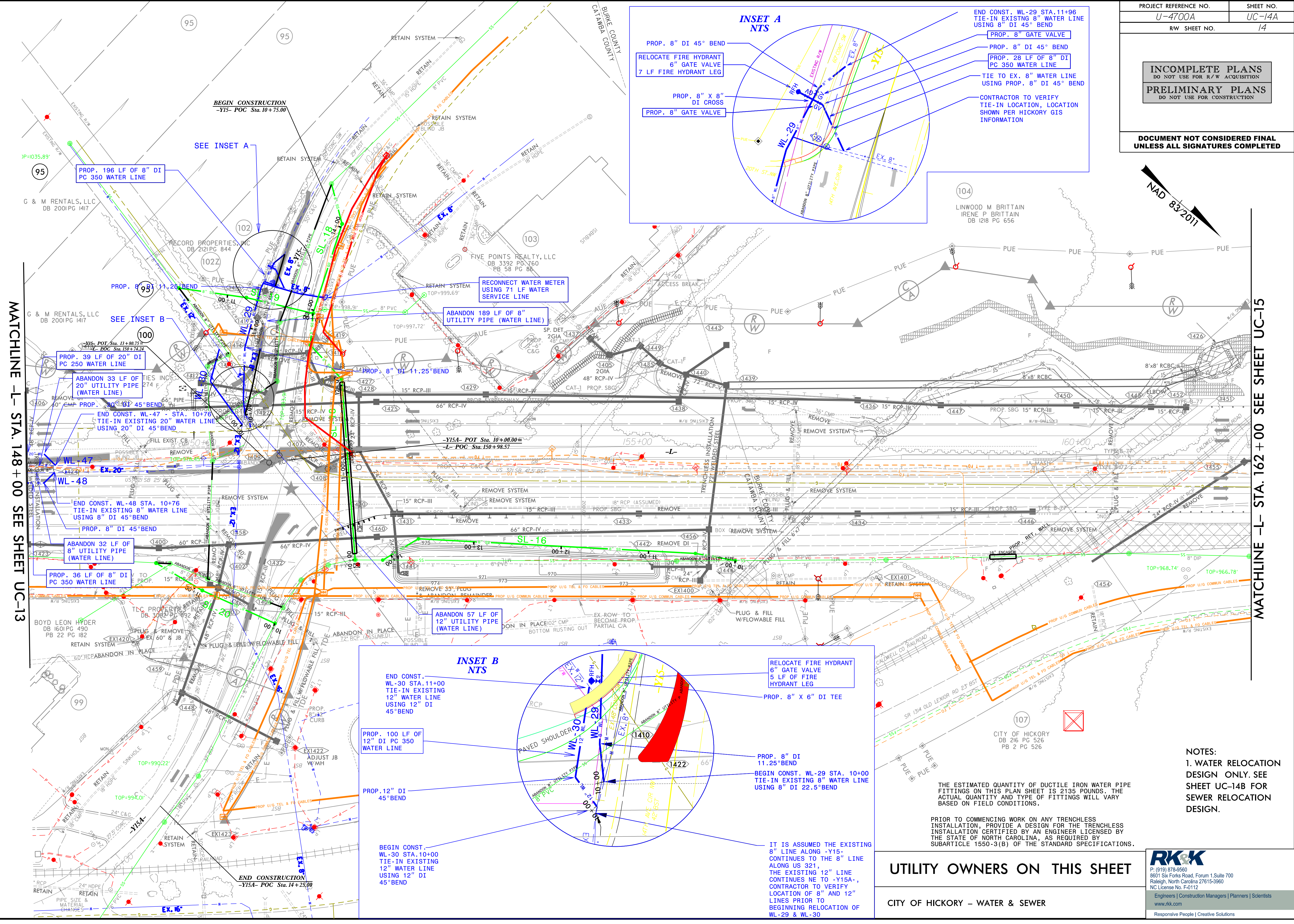
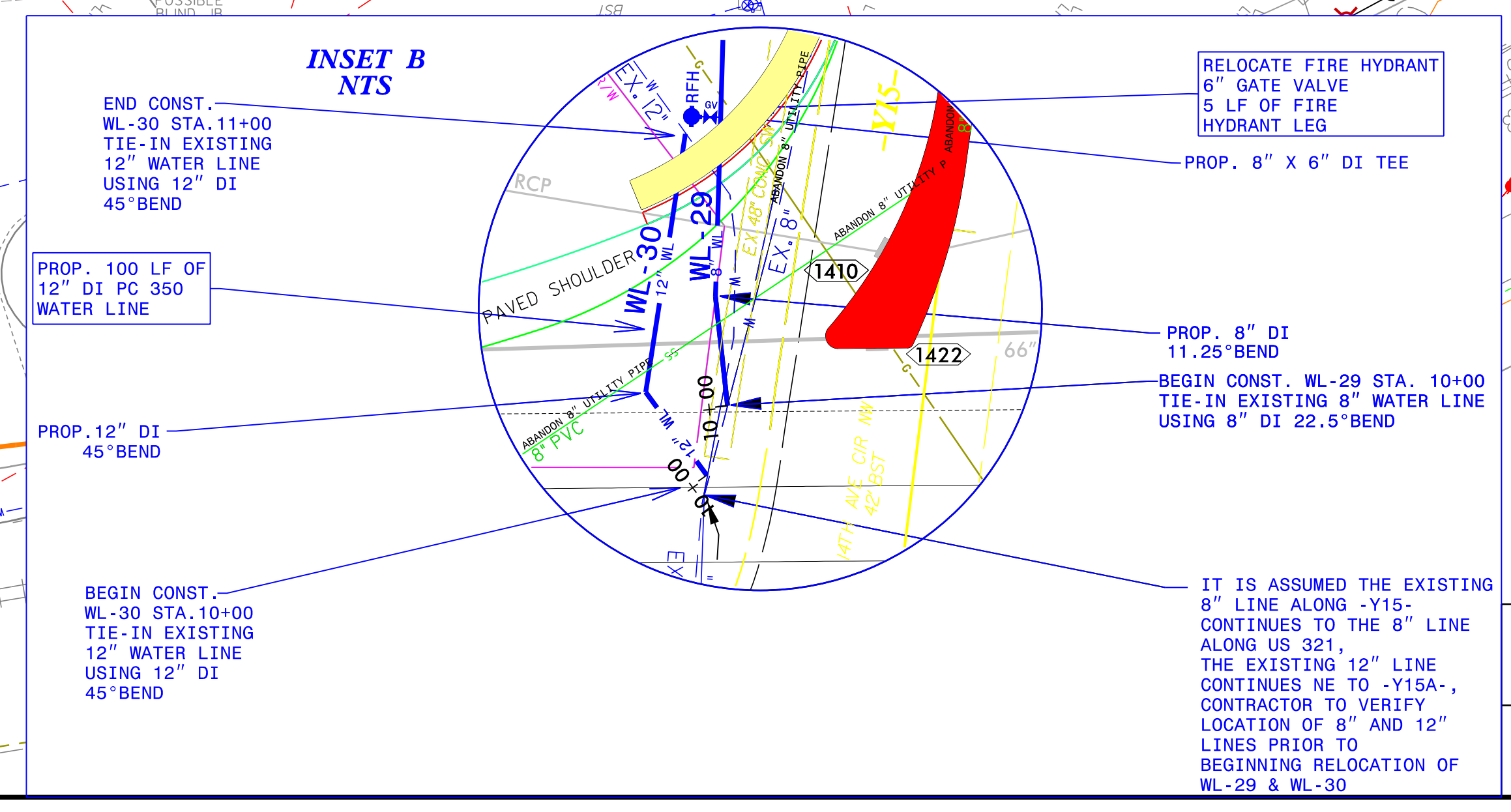
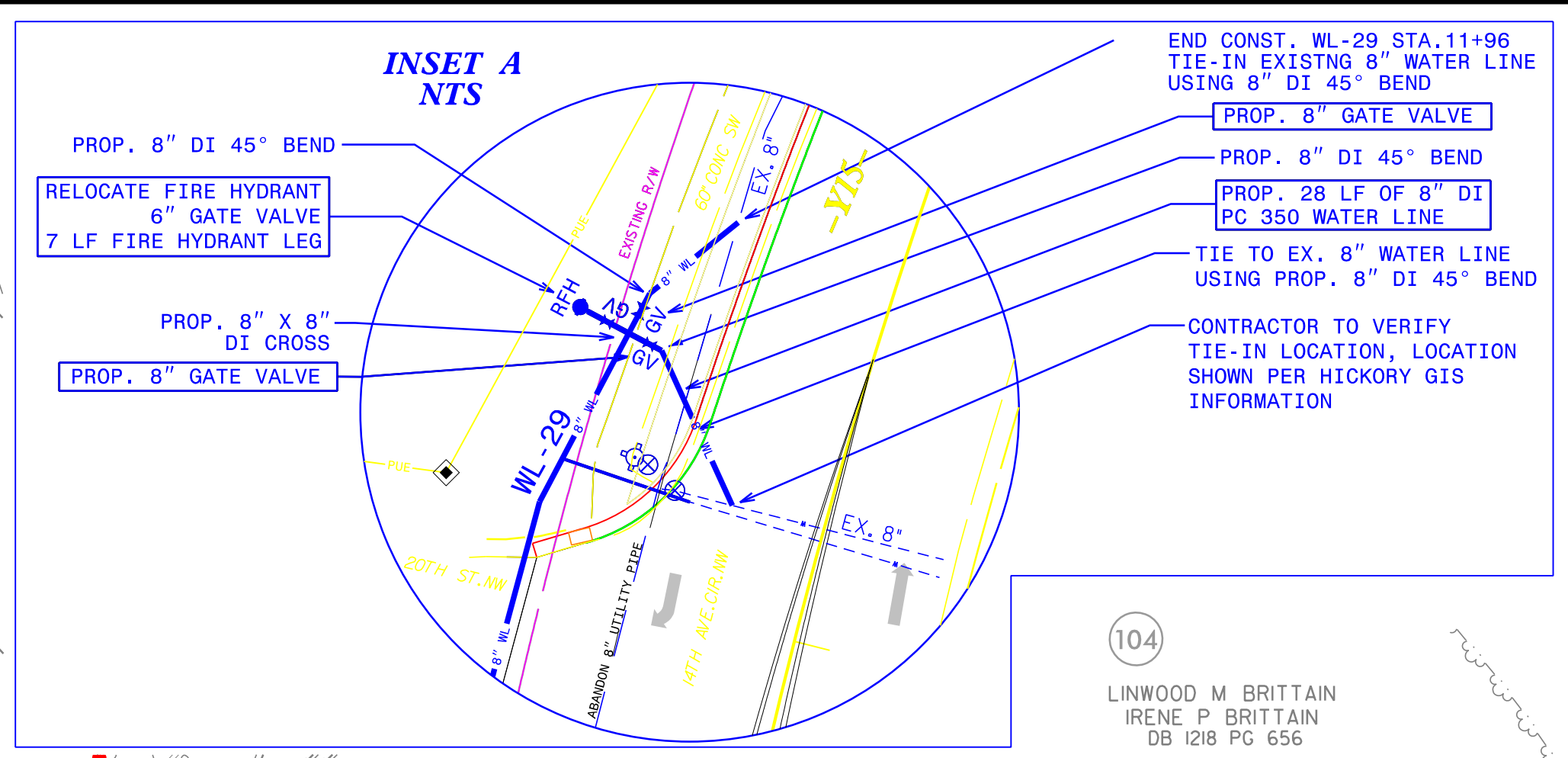
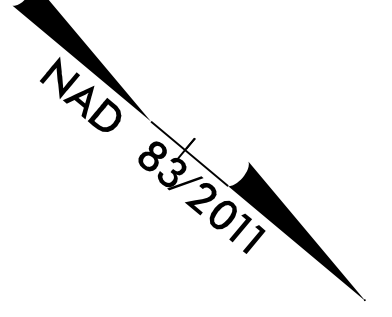
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8/17/19  
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 5/13/2023

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**PRELIMINARY PLANS**  
DO NOT USE FOR CONSTRUCTION

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



MATCHLINE -L- STA. 148 + 00 SEE SHEET UC-13

MATCHLINE -L- STA. 162 + 00 SEE SHEET UC-15

REVISIONS

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 2135 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

PRIOR TO COMMENCING WORK ON ANY TRENCHLESS INSTALLATION, PROVIDE A DESIGN FOR THE TRENCHLESS INSTALLATION CERTIFIED BY AN ENGINEER LICENSED BY THE STATE OF NORTH CAROLINA, AS REQUIRED BY SUBARTICLE 1550-3(B) OF THE STANDARD SPECIFICATIONS.

**NOTES:**  
1. WATER RELOCATION DESIGN ONLY. SEE SHEET UC-14B FOR SEWER RELOCATION DESIGN.

**UTILITY OWNERS ON THIS SHEET**

CITY OF HICKORY - WATER & SEWER

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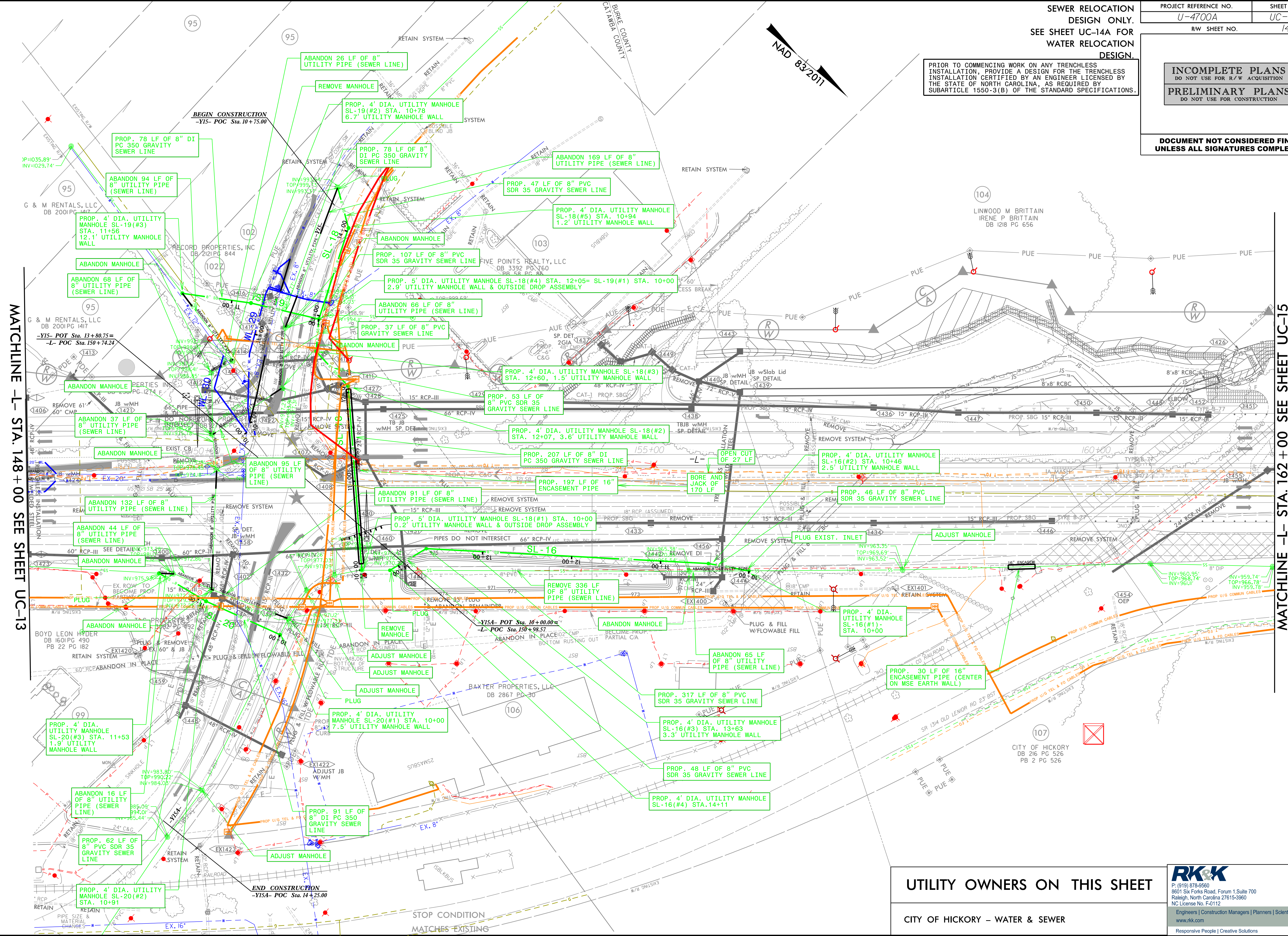
5/19/2023  
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U-4700A.dwg

PRIOR TO COMMENCING WORK ON ANY TRENCHLESS INSTALLATION, PROVIDE A DESIGN FOR THE TRENCHLESS INSTALLATION CERTIFIED BY AN ENGINEER LICENSED BY THE STATE OF NORTH CAROLINA, AS REQUIRED BY SUBARTICLE 1550-3(B) OF THE STANDARD SPECIFICATIONS.

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

**PRELIMINARY PLANS**  
DO NOT USE FOR CONSTRUCTION

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



8/17/99

REVISIONS

MATCHLINE -L- STA. 148 + 00 SEE SHEET UC-13

MATCHLINE -L- STA. 162 + 00 SEE SHEET UC-15

**UTILITY OWNERS ON THIS SHEET**

CITY OF HICKORY - WATER & SEWER

**RR&K**

P: (919) 878-8560  
8601 Six Forks Road, Forum 1, Suite 700  
Raleigh, North Carolina 27615-3960  
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THERE ARE NO ANTICIPATED WATER OR SEWER CONFLICTS ON THIS SHEET.

**INCOMPLETE PLANS**  
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**PRELIMINARY PLANS**  
DO NOT USE FOR CONSTRUCTION

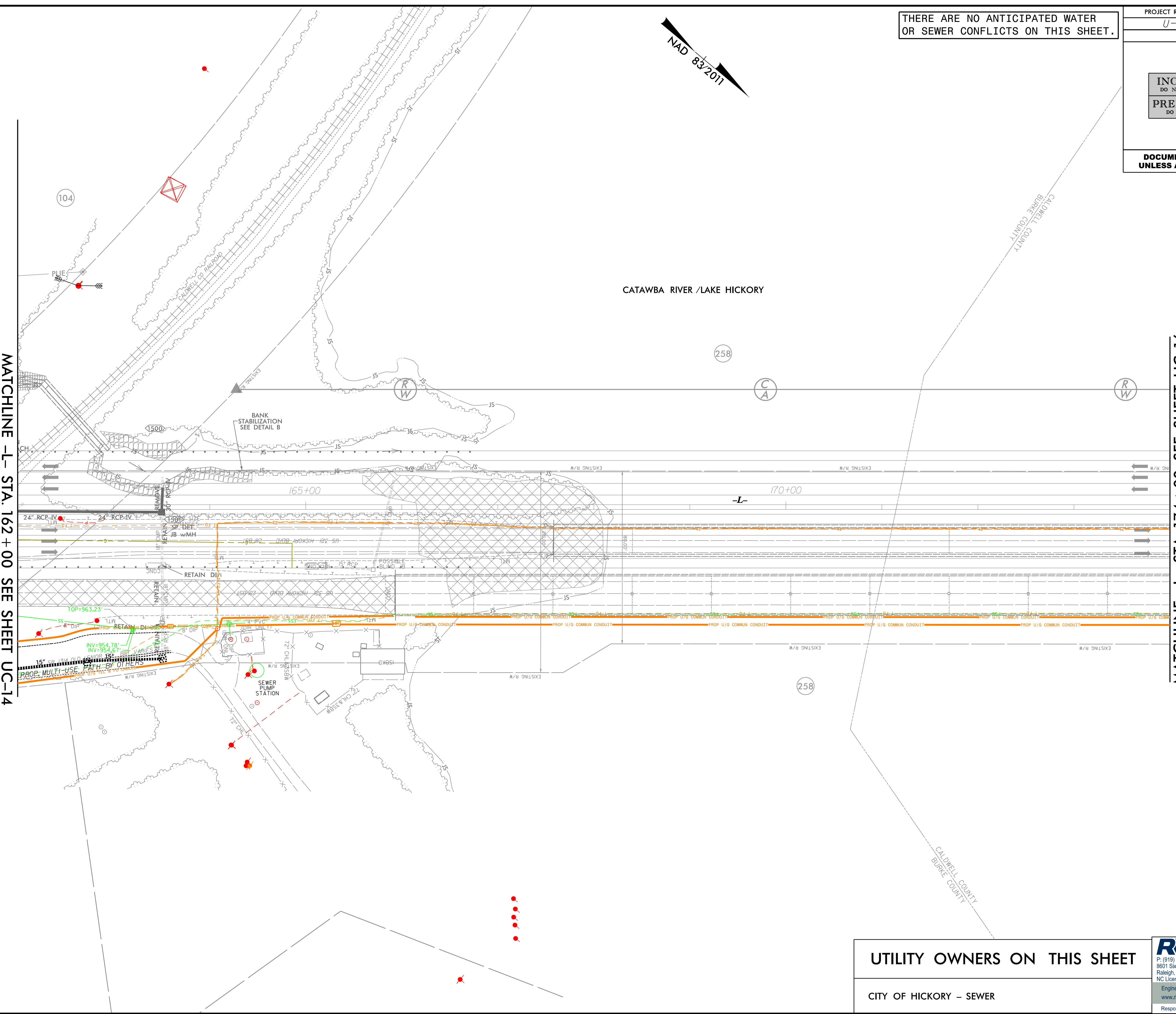
**DOCUMENT NOT CONSIDERED FINAL**  
UNLESS ALL SIGNATURES COMPLETED



CATAWBA RIVER /LAKE HICKORY

MATCHLINE -L- STA. 162 + 00 SEE SHEET UC-14

MATCHLINE -L- STA. 174 + 00 SEE SHEET UC-16



REVISIONS

8/17/99

9/9/2023  
R:\Utilities\Engineering\UC\Proj\NSheets\UC15.dwg UC15\_pabdan

UTILITY OWNERS ON THIS SHEET

CITY OF HICKORY - SEWER

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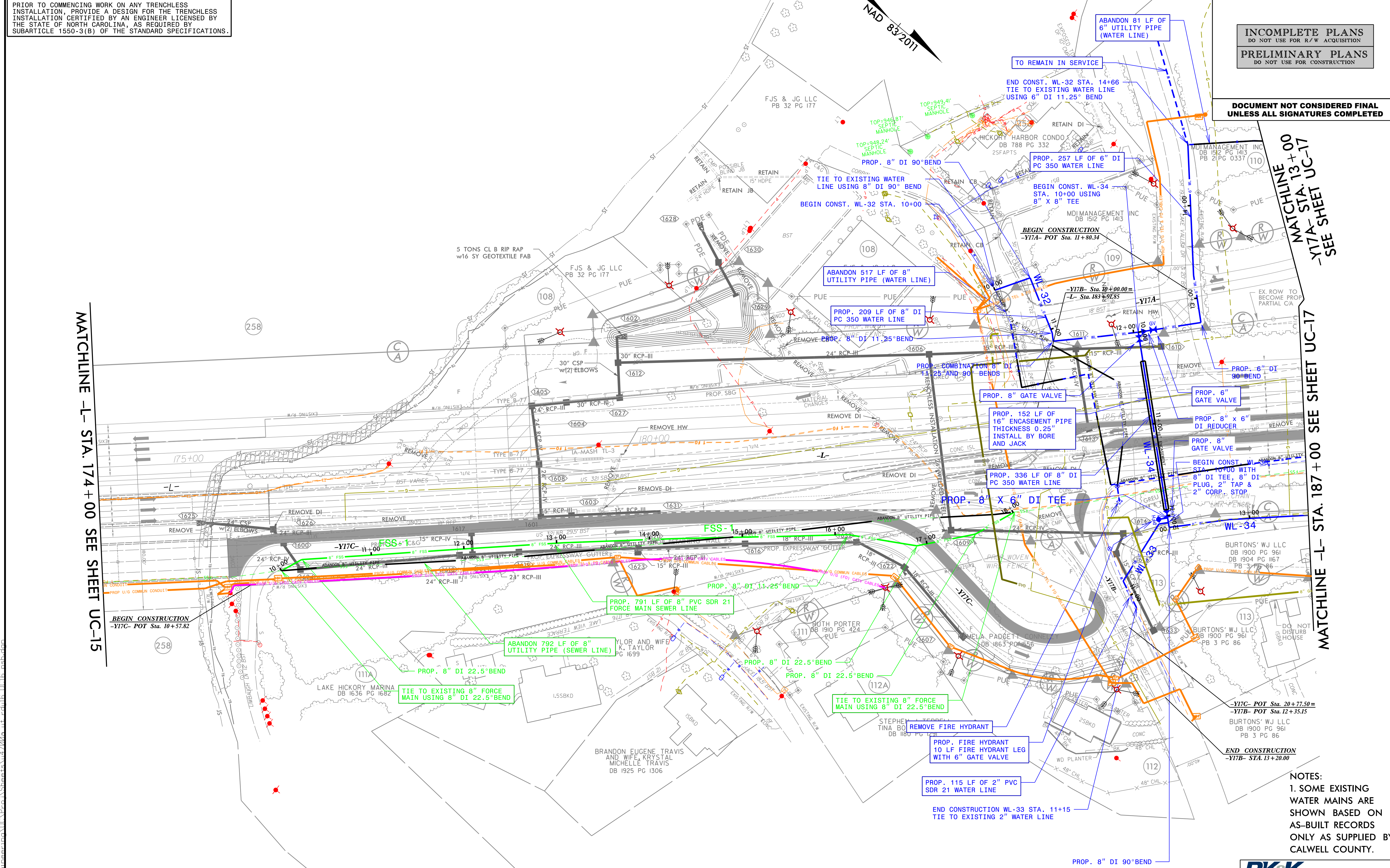
**DOCUMENT NOT CONSIDERED FINAL**  
UNLESS ALL SIGNATURES COMPLETED

MATCHLINE -L- STA. 13+00  
-Y17A- SHEET UC-17  
MATCHLINE -L- STA. 187+00 SEE SHEET UC-17

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 2360 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

THE ESTIMATED QUANTITY OF DUCTILE IRON SEWER PIPE FITTINGS ON THIS PLAN SHEET IS 440 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

PRIOR TO COMMENCING WORK ON ANY TRENCHLESS INSTALLATION, PROVIDE A DESIGN FOR THE TRENCHLESS INSTALLATION CERTIFIED BY AN ENGINEER LICENSED BY THE STATE OF NORTH CAROLINA, AS REQUIRED BY SUBARTICLE 1550-3(B) OF THE STANDARD SPECIFICATIONS.



**NOTES:**  
1. SOME EXISTING WATER MAINS ARE SHOWN BASED ON AS-BUILT RECORDS ONLY AS SUPPLIED BY CALWELL COUNTY.

**UTILITY OWNERS ON THIS SHEET**

CALDWELL COUNTY - WATER  
CITY OF HICKORY - FORCE MAIN SEWER

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REVISIONS

MATCHLINE -L- STA. 174+00 SEE SHEET UC-15

8/17/19

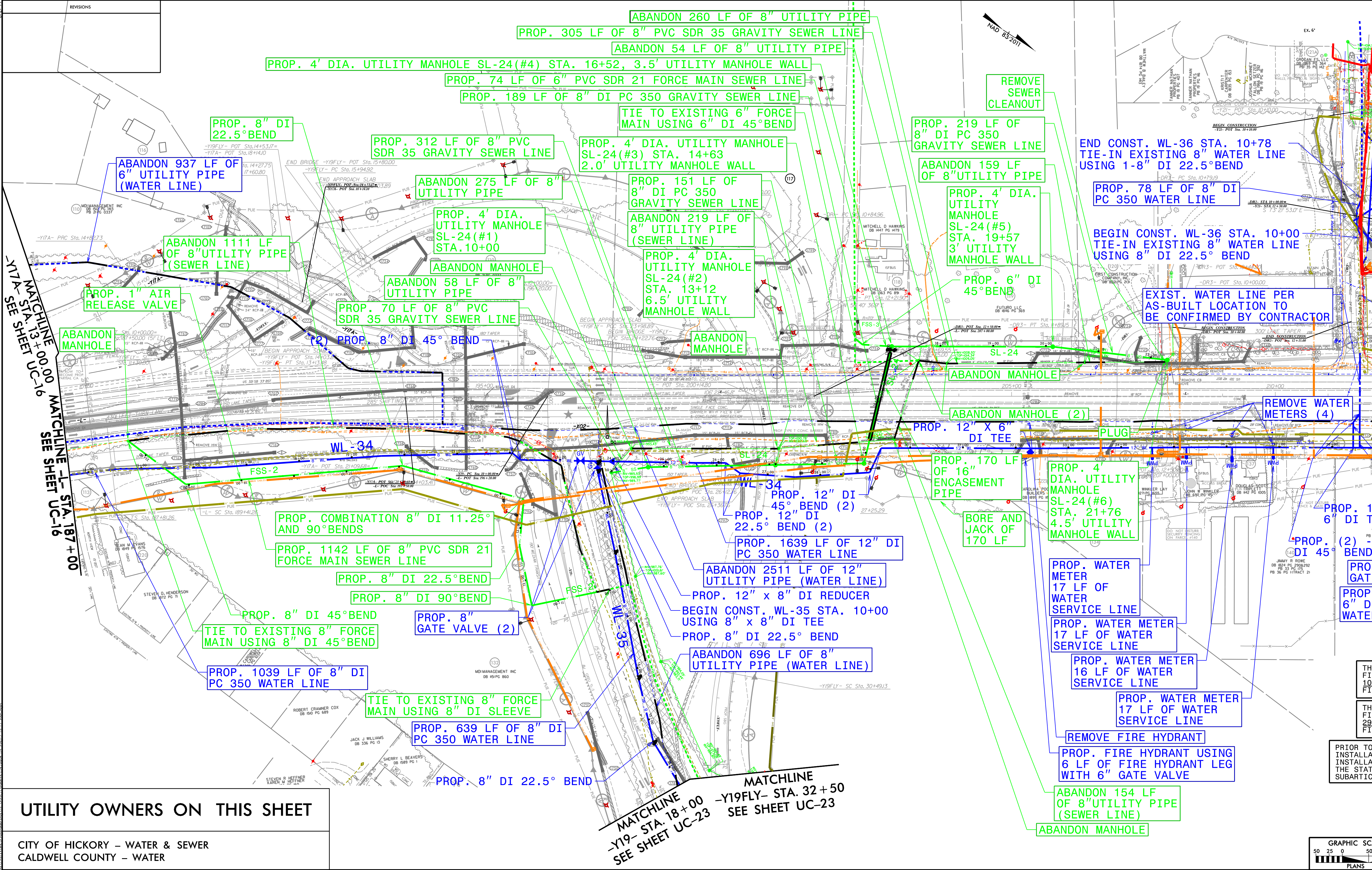
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PROJECT REFERENCE NO.	SHEET NO.
U-4700A	UC-17
RW SHEET NO.	17

**INCOMPLETE PLANS**  
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**PRELIMINARY PLANS**  
DO NOT USE FOR CONSTRUCTION

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UNLESS ALL SIGNATURES COMPLETED



**UTILITY OWNERS ON THIS SHEET**

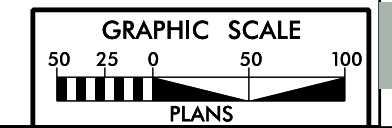
CITY OF HICKORY – WATER & SEWER  
CALDWELL COUNTY – WATER

**NOTES:**  
1. SOME EXISTING WATER MAINS ARE SHOWN BASED ON AS-BUILT RECORDS ONLY AS SUPPLIED BY CALDWELL COUNTY.

THE ESTIMATED QUANTITY OF DUCTILE IRON SEWER FITTINGS ON THIS PLAN SHEET IS 1045 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER FITTINGS ON THIS PLAN SHEET IS 2910 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

PRIOR TO COMMENCING WORK ON ANY TRENCHLESS INSTALLATION, PROVIDE A DESIGN FOR THE TRENCHLESS INSTALLATION CERTIFIED BY AN ENGINEER LICENSED BY THE STATE OF NORTH CAROLINA, AS REQUIRED BY SUBARTICLE 1550-3(B) OF THE STANDARD SPECIFICATIONS.



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THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTING ON THIS PLAN SHEET IS 1210 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

PRIOR TO COMMENCING WORK ON ANY TRENCHLESS INSTALLATION, PROVIDE A DESIGN FOR THE TRENCHLESS INSTALLATION CERTIFIED BY AN ENGINEER LICENSED BY THE STATE OF NORTH CAROLINA, AS REQUIRED BY SUBARTICLE 1550-3(B) OF THE STANDARD SPECIFICATIONS.

### UTILITY OWNERS ON THIS SHEET

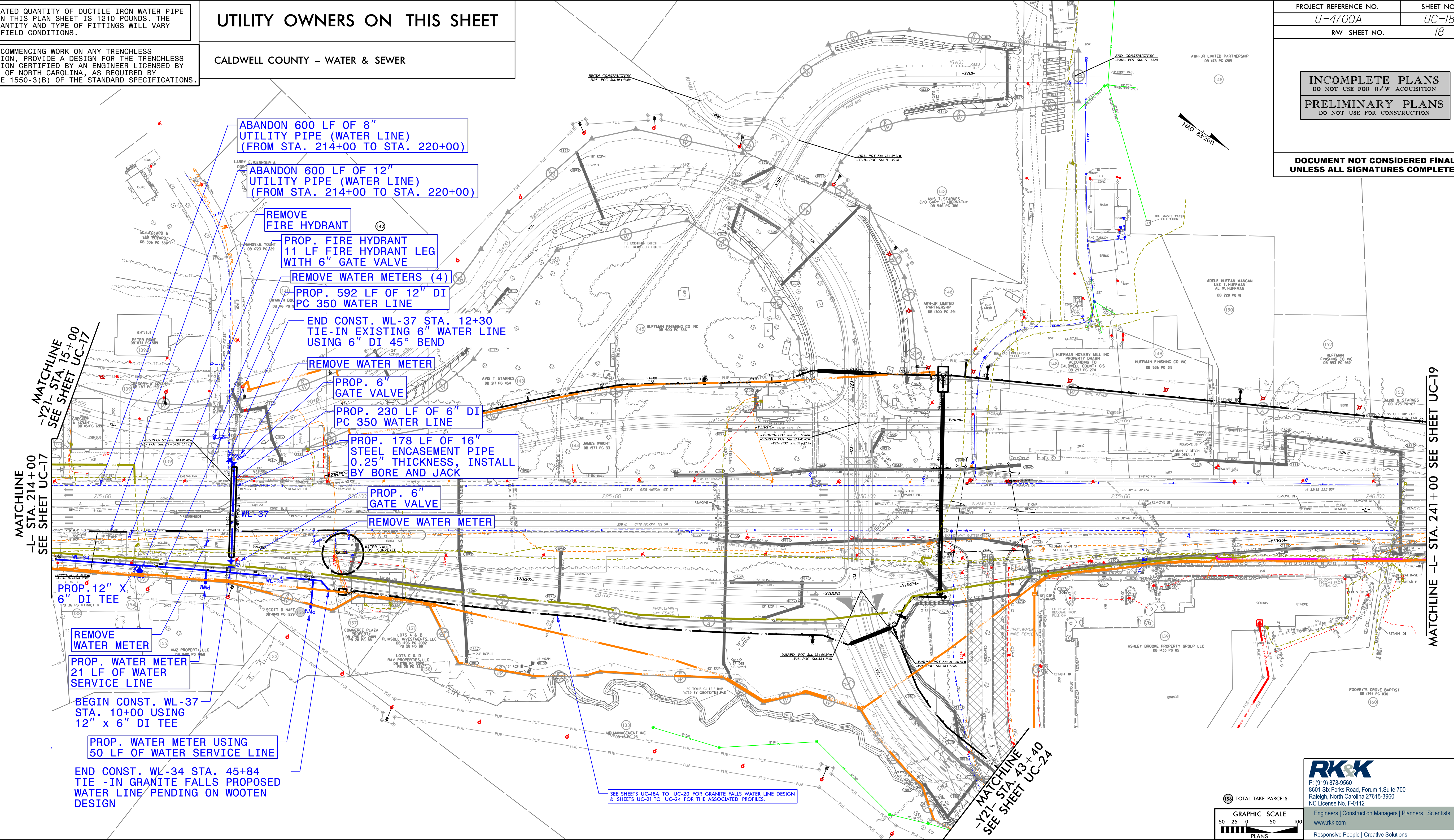
CALDWELL COUNTY - WATER & SEWER

PROJECT REFERENCE NO.	SHEET NO.
U-4700A	UC-18
R/W SHEET NO.	18

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

**PRELIMINARY PLANS**  
DO NOT USE FOR CONSTRUCTION

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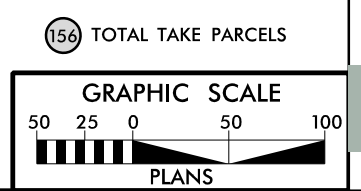
MATCHLINE  
-L- STA. 214+00  
SEE SHEET UC-17

MATCHLINE  
-Y21- STA. 15+00  
SEE SHEET UC-17

MATCHLINE  
-Y21- STA. 43+40  
SEE SHEET UC-24

MATCHLINE -L- STA. 241+00 SEE SHEET UC-19

SEE SHEETS UC-18A TO UC-20 FOR GRANITE FALLS WATER LINE DESIGN & SHEETS UC-21 TO UC-24 FOR THE ASSOCIATED PROFILES.



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INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION

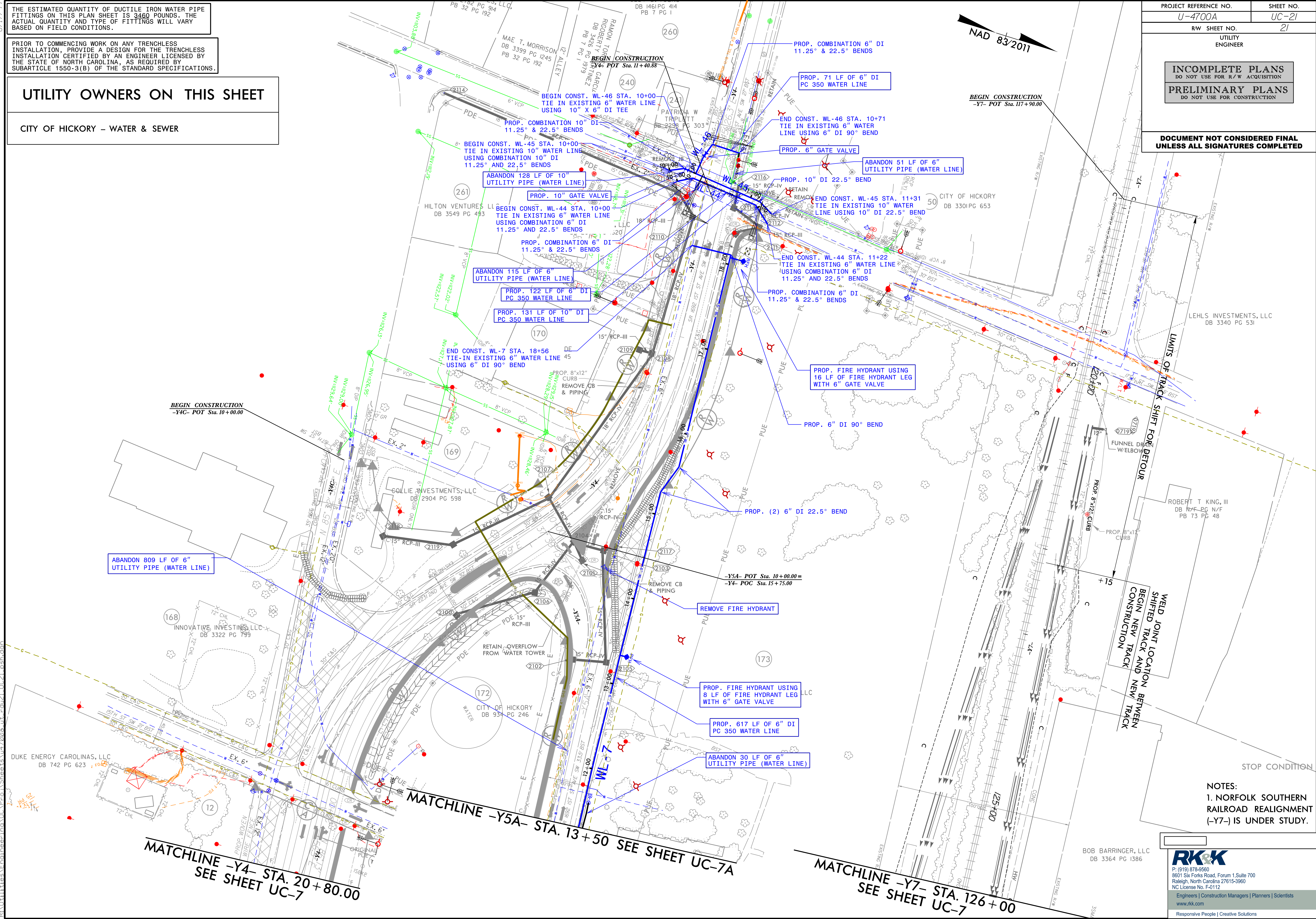
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 3460 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

PRIOR TO COMMENCING WORK ON ANY TRENCHLESS INSTALLATION, PROVIDE A DESIGN FOR THE TRENCHLESS INSTALLATION CERTIFIED BY AN ENGINEER LICENSED BY THE STATE OF NORTH CAROLINA, AS REQUIRED BY SUBARTICLE 1550-3(B) OF THE STANDARD SPECIFICATIONS.

UTILITY OWNERS ON THIS SHEET

CITY OF HICKORY - WATER & SEWER



REVISIONS

ABANDON 809 LF OF 6" UTILITY PIPE (WATER LINE)

BEGIN CONSTRUCTION -Y4C- POT Sta. 10+00.00

MATCHLINE -Y4- STA. 20+80.00 SEE SHEET UC-7

MATCHLINE -Y5A- STA. 13+50 SEE SHEET UC-7A

MATCHLINE -Y7- STA. 126+00 SEE SHEET UC-7

WELD JOINT LOCATION BETWEEN SHIFTED TRACK AND NEW TRACK BEGIN NEW TRACK CONSTRUCTION

LIMITS OF TRACK SHIFT FOR DETOUR

NOTES: 1. NORFOLK SOUTHERN RAILROAD REALIGNMENT (-Y7-) IS UNDER STUDY.

Bob Barringer, LLC logo and contact information: P: (919) 878-8560, 8601 Six Forks Road, Forum 1, Suite 700, Raleigh, North Carolina 27615-3960, NC License No. F-0112, www.rkk.com

UTILITY ENGINEER

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**PRELIMINARY PLANS**  
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UNLESS ALL SIGNATURES COMPLETED

LAW SHACK, LLC  
DB 3377 PG 329  
PB 33 PG 141

ARACELIS BELTRAN  
DB 2791 PG 853  
PB 33 PG 141

MOUNTAIN RECYCLING, NC  
DB 2627 PG 676

DEBRA MOODY  
DAVID L YOUNG  
DB 2806 PG 428

NAD 83/2011

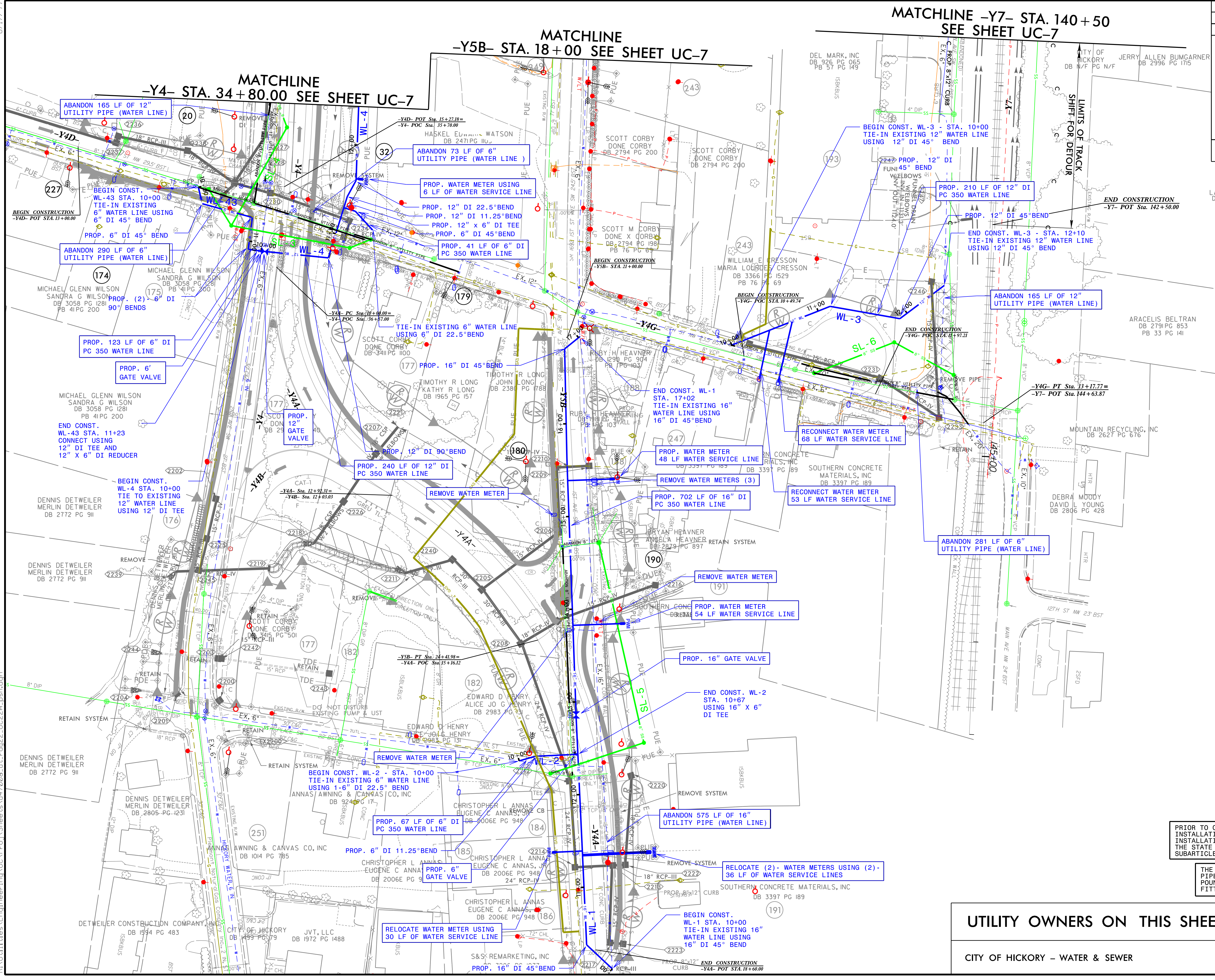
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THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 8840 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

MATCHLINE -Y7- STA. 140+50  
SEE SHEET UC-7

MATCHLINE -Y5B- STA. 18+00  
SEE SHEET UC-7

MATCHLINE -Y4- STA. 34+80.00  
SEE SHEET UC-7



REVISIONS

**UTILITY OWNERS ON THIS SHEET**

CITY OF HICKORY – WATER & SEWER

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8/17/19

5/13/2023  
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UTILITY ENGINEER

**INCOMPLETE PLANS**  
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**PRELIMINARY PLANS**  
DO NOT USE FOR CONSTRUCTION

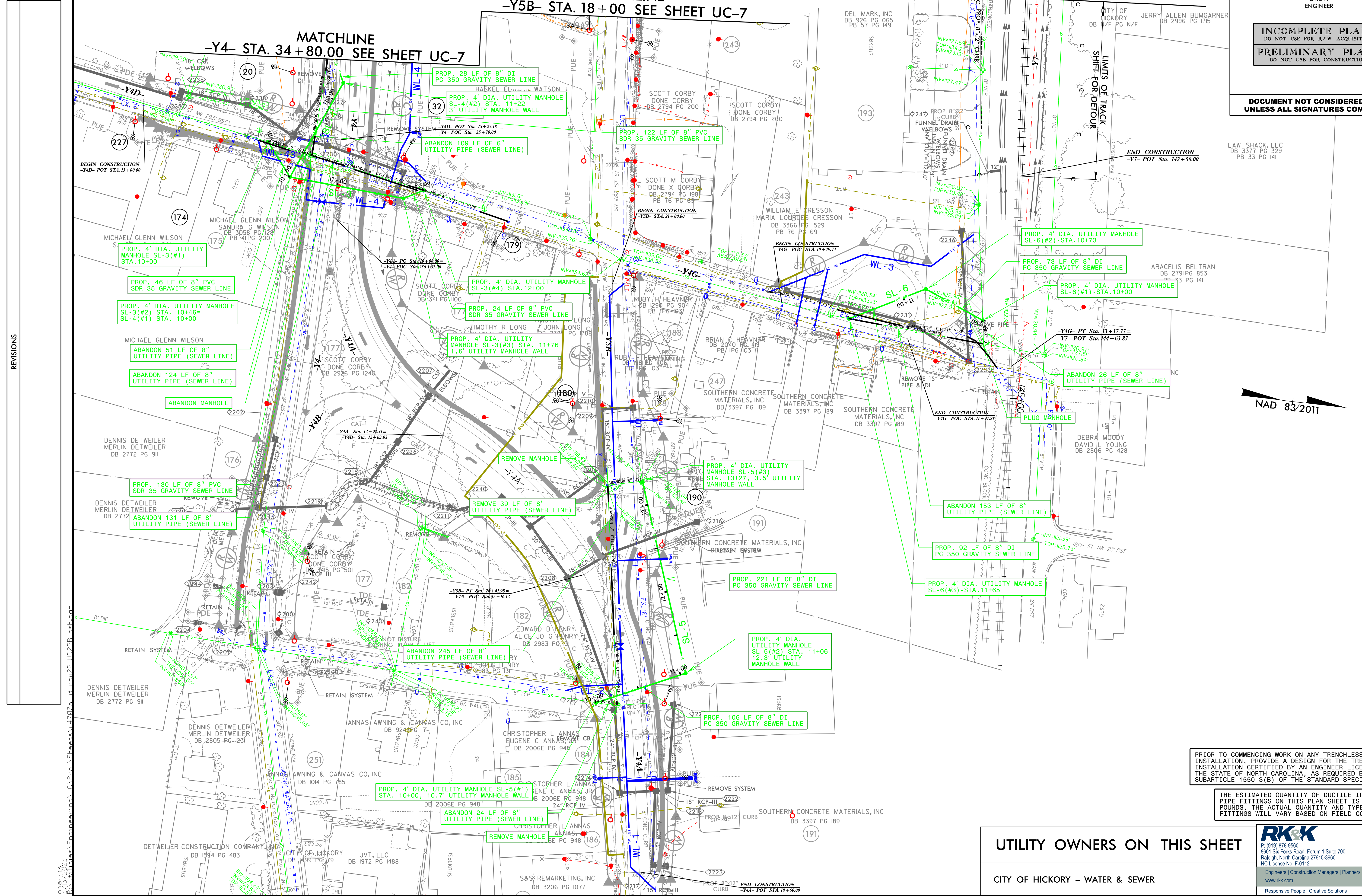
**DOCUMENT NOT CONSIDERED FINAL**  
UNLESS ALL SIGNATURES COMPLETED

LAW SHACK, LLC  
DB 3377 PG 329  
PB 33 PG 141

MATCHLINE -Y7- STA. 140 + 50  
SEE SHEET UC-7

MATCHLINE -Y5B- STA. 18 + 00  
SEE SHEET UC-7

MATCHLINE -Y4- STA. 34 + 80.00  
SEE SHEET UC-7



REVISIONS

NAD 83/2011

PRIOR TO COMMENCING WORK ON ANY TRENCHLESS INSTALLATION, PROVIDE A DESIGN FOR THE TRENCHLESS INSTALLATION CERTIFIED BY AN ENGINEER LICENSED BY THE STATE OF NORTH CAROLINA, AS REQUIRED BY SUBARTICLE 1550-3(B) OF THE STANDARD SPECIFICATIONS.

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

**UTILITY OWNERS ON THIS SHEET**

CITY OF HICKORY - WATER & SEWER

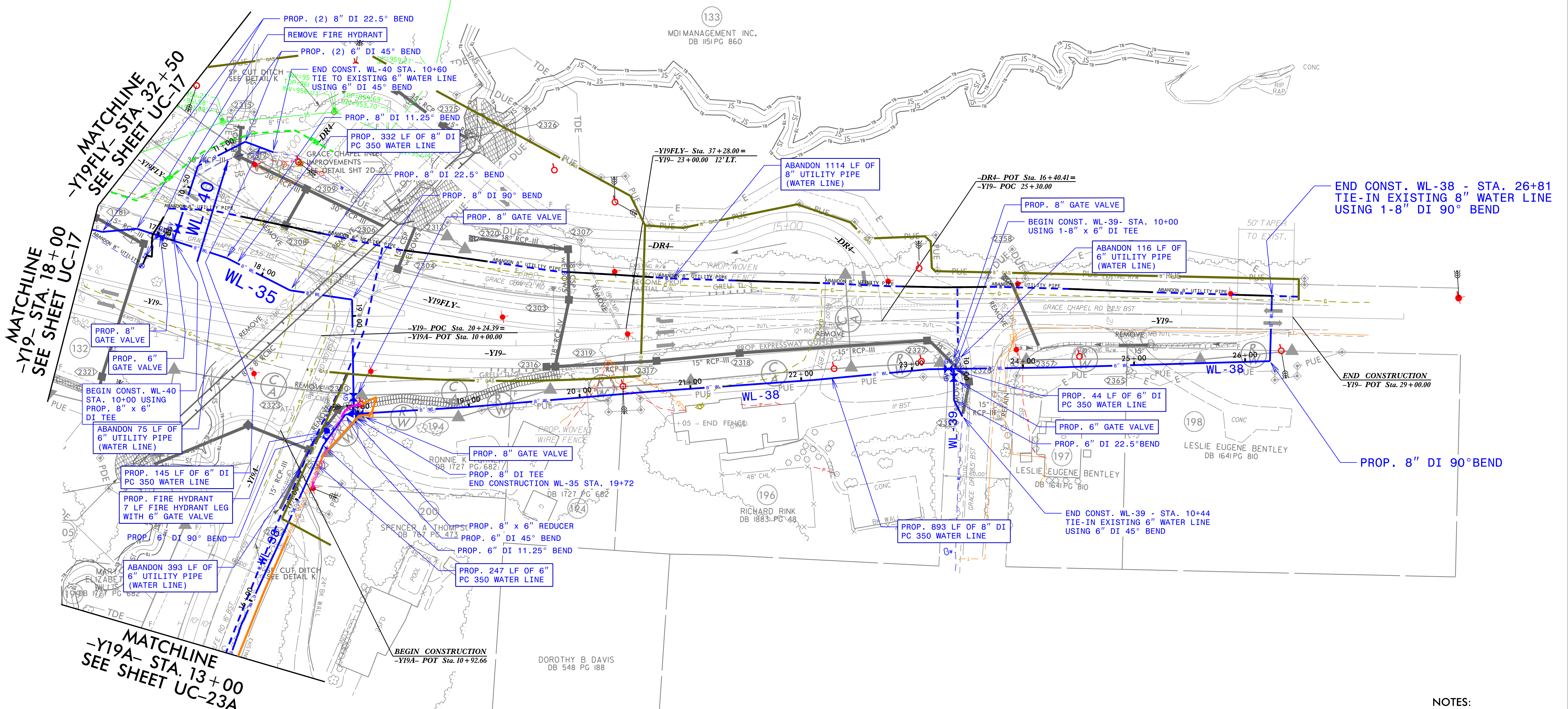
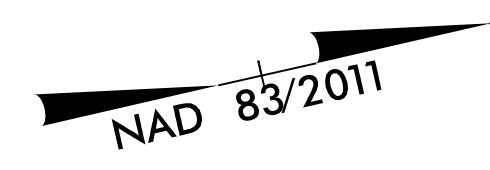
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PROJECT REFERENCE NO.	SHEET NO.
U-4700A	UC-23
RW SHEET NO.	23
UTILITY ENGINEER	
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<b>DOCUMENT NOT CONSIDERED FINAL</b> <b>UNLESS ALL SIGNATURES COMPLETED</b>	

THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 4010 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

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REVISIONS

8/17/99

5/13/2023  
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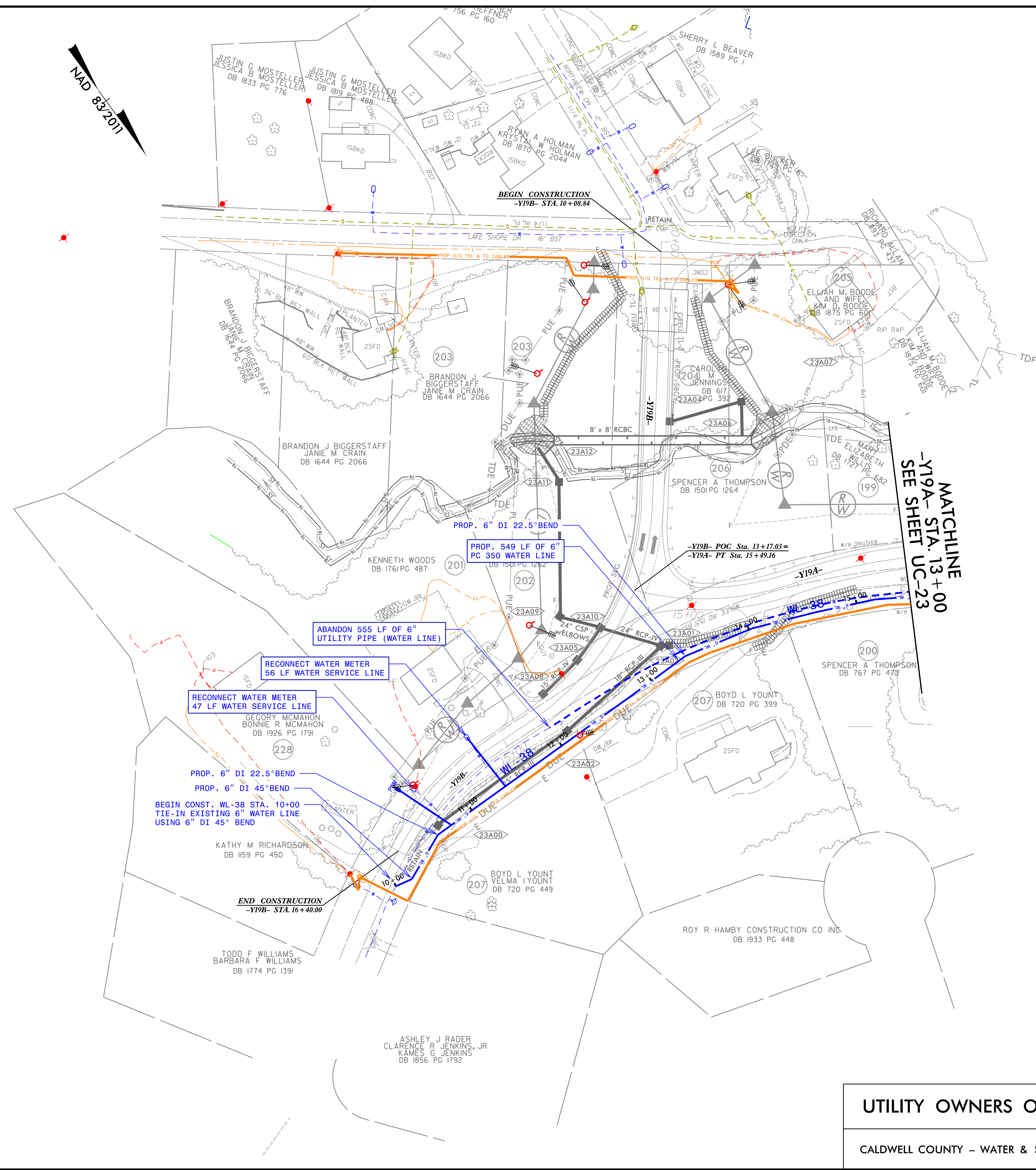
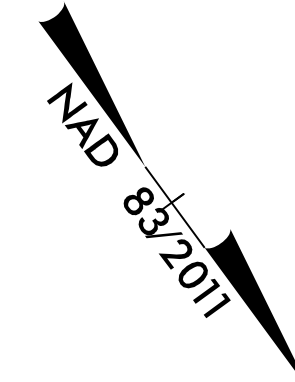
NOTES:  
 1. SOME EXISTING WATER MAINS ARE SHOWN BASED ON AS-BUILT RECORDS ONLY AS SUPPLIED BY CALDWELL COUNTY.

**UTILITY OWNERS ON THIS SHEET**

CALDWELL COUNTY - WATER & SEWER

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PROJECT REFERENCE NO. U-4700A	SHEET NO. UC-23A
RW SHEET NO. 23A	UTILITY ENGINEER
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9/18/2023  
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THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 300 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

<b>UTILITY OWNERS ON THIS SHEET</b>  CALDWELL COUNTY - WATER & SEWER	 P: (919) 878-8560 8601 Six Forks Road, Forum 1, Suite 700 Raleigh, North Carolina 27615-3960 NC License No. F-0112 Engineers   Construction Managers   Planners   Scientists <a href="http://www.rkk.com">www.rkk.com</a> Responsive People   Creative Solutions
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