

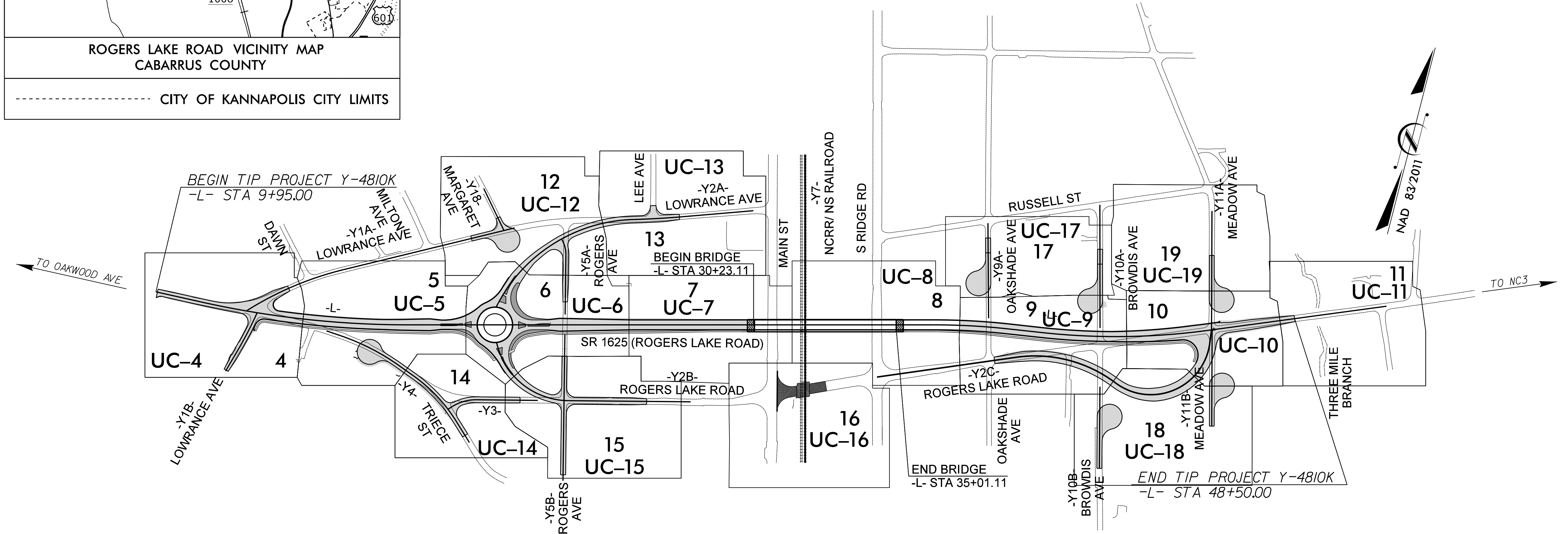
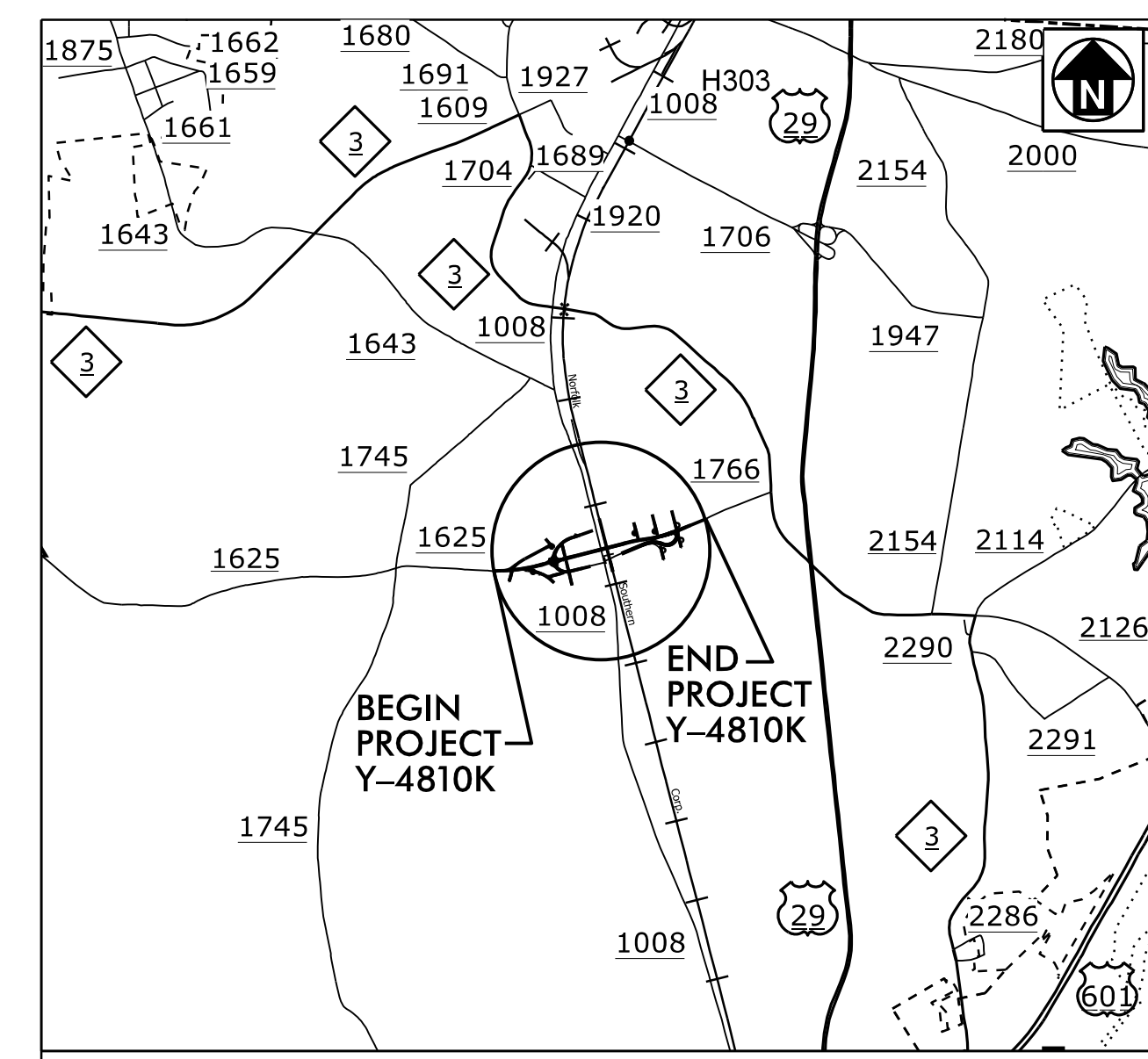
**TIP PROJECT: Y-4810K**

T.I.P. NO.	SHEET NO.
<b>Y-4810K</b>	<b>UC-1</b>
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

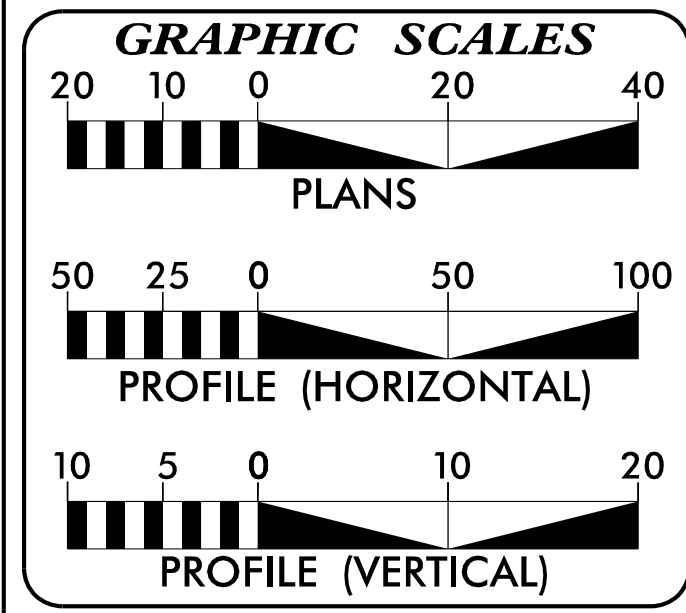
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# UTILITY CONSTRUCTION PLANS CABARRUS COUNTY

**LOCATION: SR 1625 (ROGERS LAKE RD) GRADE SEPARATION OVER  
NCRR/NS RAILROAD (CROSSING #724408Y)**  
**TYPE OF WORK: WATER & SEWER RELOCATIONS**



THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF KANNAPOLIS.  
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY \_\_\_\_\_.



**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
UC-1	TITLE SHEET
UC-2	UTILITY SYMBOLOGY
UC-3	NOTES
UC-3A THRU UC-3B	DETAILS
UC-4 THRU UC-19	UTILITY CONSTRUCTION SHEETS
UC-20 THRU UC-24	PROFILE SHEETS

**WATER AND SEWER OWNERS ON PROJECT**

(A) WATER - CITY OF KANNAPOLIS  
(B) SEWER - CITY OF KANNAPOLIS

PREPARED IN THE OFFICE OF:

**HINDE ENGINEERING**  
License No. C-2639  
401 Harrison Oaks Blvd., Suite 220 Cary, NC 27513  
Ph. (919) 653-0001

<u>Clint L. Stevens, P.E.</u>	UTILITIES PROJECT MANAGER
<u>Jordan K. Chapman</u>	UTILITIES PROJECT ENGINEER
<u>James N. Arnold</u>	UTILITIES PROJECT DESIGNER

SEAL

Clint L. Stevens  
040370  
8/30/2022

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

<u>Michael Bright</u>	WESTERN UTILITIES MANAGER
<u>Jong-Tae Yoon, P.E.</u>	SENIOR UTILITIES ENGINEER

30-AUG-2022 12:51 C:\Server\_Files\PROJECTS\2017\A2017401\_000\_NCDOT\_Y-4810K\Design\Utilities\Engineering\UC\Proj\Y4810K\_ut\_tsh\_UC01.psh.dgn

# UTILITIES PLAN SHEET SYMBOLS

## PROPOSED WATER SYMBOLS

Water Line (Sized as Shown)	
11 1/4 Degree Bend	
22 1/2 Degree Bend	
45 Degree Bend	
90 Degree Bend	
Plug	
Tee	
Cross	
Reducer	
Gate Valve	
Butterfly Valve	
Tapping Valve	
Line Stop	
Line Stop with Bypass	
Blow Off	
Fire Hydrant	
Relocate Fire Hydrant	
Remove Fire Hydrant	REM FH
Water Meter	
Relocate Water Meter	
Remove Water Meter	REM WM
Water Pump Station	
RPZ Backflow Preventer	
DCV Backflow Preventer	
Relocate RPZ Backflow Preventer	
Relocate DCV Backflow Preventer	

## PROPOSED SEWER SYMBOLS

Gravity Sewer Line (Sized as Shown)	
Force Main Sewer Line (Sized as Shown)	
Manhole (Sized per Note)	
Sewer Pump Station	

## PROPOSED MISCELLANEOUS UTILITIES SYMBOLS

Power Pole	
Telephone Pole	
Joint Use Pole	
Telephone Pedestal	
Utility Line by Others (Type as Shown)	
Trenchless Installation	
Encasement by Open Cut	
Encasement	

Thrust Block	
Air Release Valve	
Utility Vault	
Concrete Pier	
Steel Pier	
Plan Note	
Pay Item Note	

NOTE  
PAY ITEM


## EXISTING UTILITIES SYMBOLS

Power Pole		*Underground Power Line	
Telephone Pole		*Underground Telephone Cable	
Joint Use Pole		*Underground Telephone Conduit	
Utility Pole		*Underground Fiber Optics Telephone Cable	
Utility Pole with Base		*Underground TV Cable	
H-Frame Pole		*Underground Fiber Optics TV Cable	
Power Transmission Line Tower		*Underground Gas Pipeline	
Water Manhole		Aboveground Gas Pipeline	
Power Manhole		*Underground Water Line	
Telephone Manhole		Aboveground Water Line	
Sanitary Sewer Manhole		*Underground Gravity Sanitary Sewer Line	
Hand Hole for Cable		Aboveground Gravity Sanitary Sewer Line	
Power Transformer		*Underground SS Forced Main Line	
Telephone Pedestal		Underground Unknown Utility Line	
CATV Pedestal		SUE Test Hole	
Gas Valve		Water Meter	
Gas Meter		Water Valve	
Located Miscellaneous Utility Object		Fire Hydrant	
Abandoned According to Utility Records	AATUR	Sanitary Sewer Cleanout	
End of Information	E.O.I.		

\*For Existing Utilities  
Utility Line Drawn from Record (Type as Shown)  
Designated Utility Line (Type as Shown)

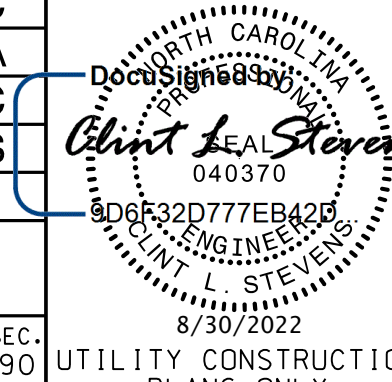
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# UTILITY CONSTRUCTION



License No. C-2639  
401 Harrison Oaks Blvd., Suite 220 Cary, NC 27513

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UNLESS ALL SIGNATURES COMPLETED**

PROJECT REFERENCE NO. <b>Y-4810K</b>	SHEET NO. <b>UC-3</b>
DESIGNED BY: <b>JKC</b>	
DRAWN BY: <b>JNA</b>	
CHECKED BY: <b>JKC</b>	
APPROVED BY: <b>CLS</b>	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	UTILITY CONSTRUCTION PLANS ONLY
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

## GENERAL NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2018.
2. THE EXISTING UTILITIES BELONG TO THE CITY OF KANNAPOLIS . THE CONTACT FOR THE CITY IS:  
  
ALEX ANDERSON  
DIRECTOR OF WATER RESOURCES  
704-920-4200
3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES, PUBLIC WATER SUPPLY SECTION. ALL SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT QUALITY, DIVISION OF WATER RESOURCES, WATER QUALITY SECTION. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.
4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR THE WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED, BUT ARE NOT BINDING UPON THE DEPARTMENT.
5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPORTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.

6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING DAMAGE TO EXISTING FACILITIES. REPAIR ANY DAMAGE INCURRED TO EXISTING FACILITIES TO THE ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE DEPARTMENT.
7. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.
8. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.
9. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, " SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

## LIST OF STANDARD DRAWINGS

1520.01 SEWER CLEAN OUT

20-AUG-2022 16:45  
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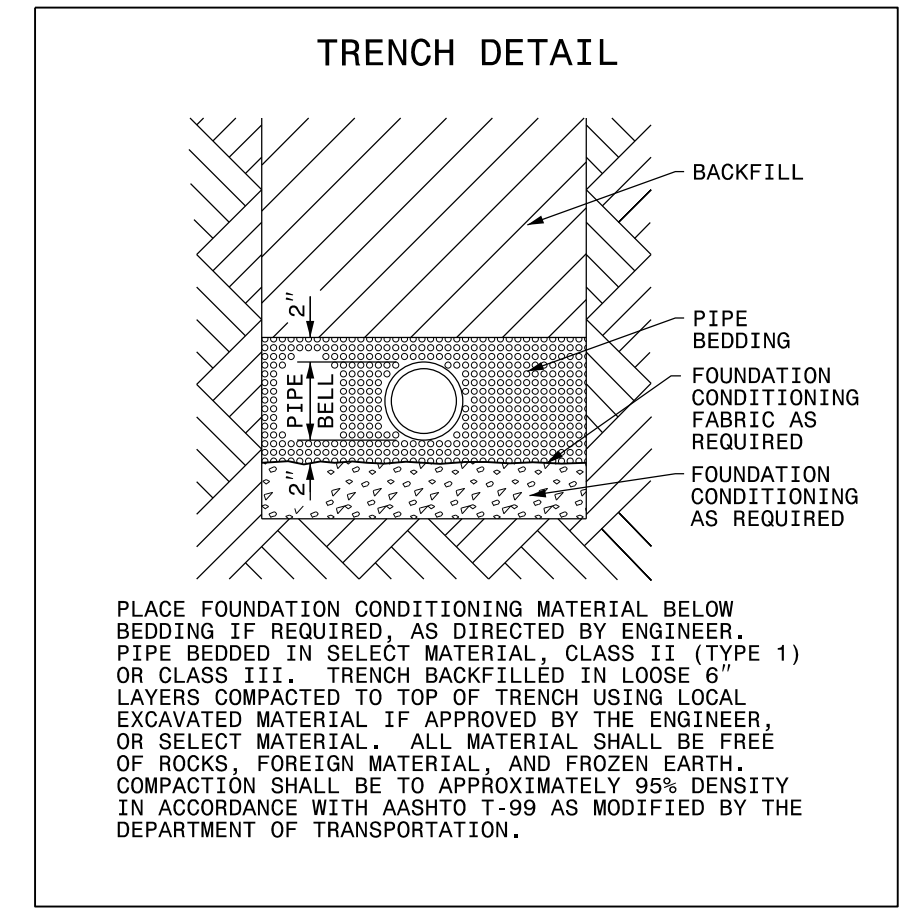
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PROJECT REFERENCE NO. <b>Y-4810K</b>	SHEET NO. <b>UC-3A</b>
DESIGNED BY: <b>JKC</b>	
DRAWN BY: <b>JNA</b>	
CHECKED BY: <b>JKC</b>	
APPROVED BY: <b>CLS</b>	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

# PROJECT TYPICAL DETAILS

## UTILITY CONSTRUCTION

NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)	NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)
4	28	20	44
6	30	24	48
8	32	30	54
10	34	36	60
12	36	42	66
14	38	48	72
16	40	54	78
18	42		



CARRIER PIPE		SPIDER DIMENSIONS		
NOMINAL DIA.	O. D.	A	B	C
6"	6.90"	11"	1 1/4"	5/8"
8"	9.05"	16 1/2"	2 1/4"	1"
12"	13.20"	22 1/2"	3"	1 1/4"
16"	17.40"	28 1/2"	3 1/2"	1 1/2"
24"	25.80"	34 1/4"	4"	2"

NOMINAL DIA.	1	2	3	4
6"	8" x 2" x 1/4" PL	8" x 1 1/2" x 1/4" PL	8" x 1/4" PL	3/8" NUT & BOLT
8"	8" x 3" x 1/4" PL	8" x 3 1/4" x 1/4" PL	8" x 1/4" PL	1/2" NUT & BOLT
12"	8" x 4" x 1/4" PL	8" x 3 3/8" x 3/8" PL	8" x 3/8" PL	1/2" NUT & BOLT
16"	8" x 4" x 3/8" PL	8" x 4 3/4" x 3/8" PL	8" x 3/8" PL	1/2" NUT & BOLT
24"	8" x 4" x 3/8" PL	8" x 5 1/2" x 3/8" PL	8" x 3/8" PL	1/2" NUT & BOLT

**CASING SPIDER**

NOT TO SCALE

November 2018  
305

**RELATION OF WATER & SEWER MAINS TO STORM DRAINS**

NOTE: WHEN A WATER MAIN CROSSES OVER OR UNDER A STORM SEWER AND CONDITIONS PREVENT THE REQUIRED 18" MIN VERTICAL SEPARATION, THE WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A MINIMUM DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.

NOTE: WHEN A SANITARY SEWER MAIN CROSSES OVER OR UNDER A STORM SEWER AND CONDITIONS PREVENT THE REQUIRED 24" MIN VERTICAL SEPARATION, THE SANITARY SEWER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A MINIMUM DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.

**KANNAPOLIS Public Works**

November 2018  
303

**WATER SERVICE**  
**1 1/2" WATER METER CONNECTION**

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November 2018  
315

**ENCASEMENT PIPES UNDER HIGHWAYS & RAILROADS**

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November 2018  
306

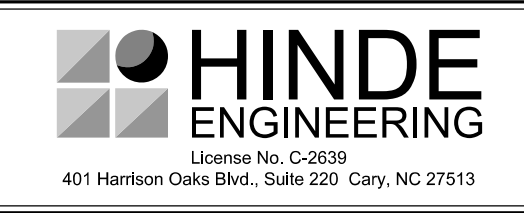
**FIRE HYDRANT**

NOT TO SCALE

November 2018  
321

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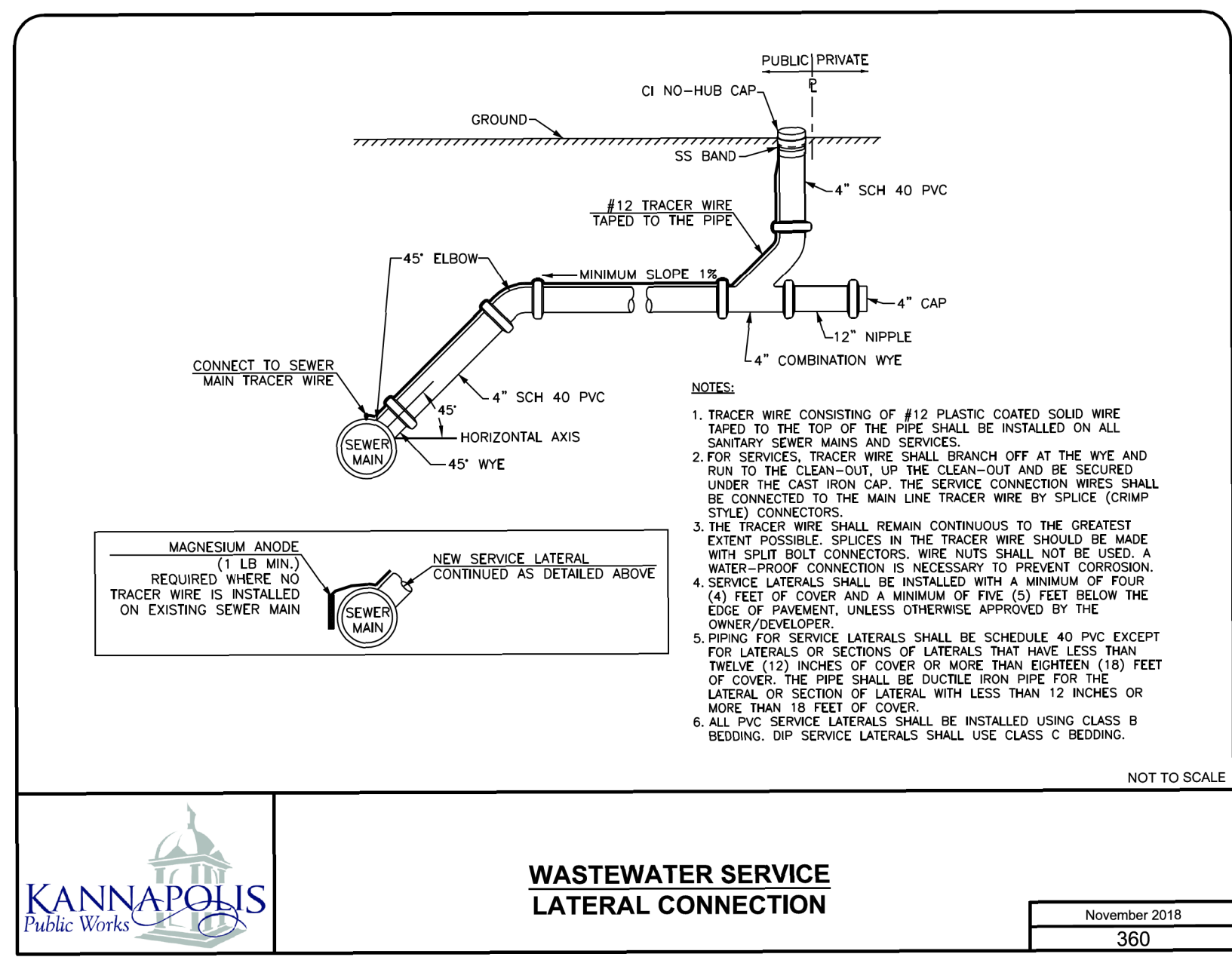
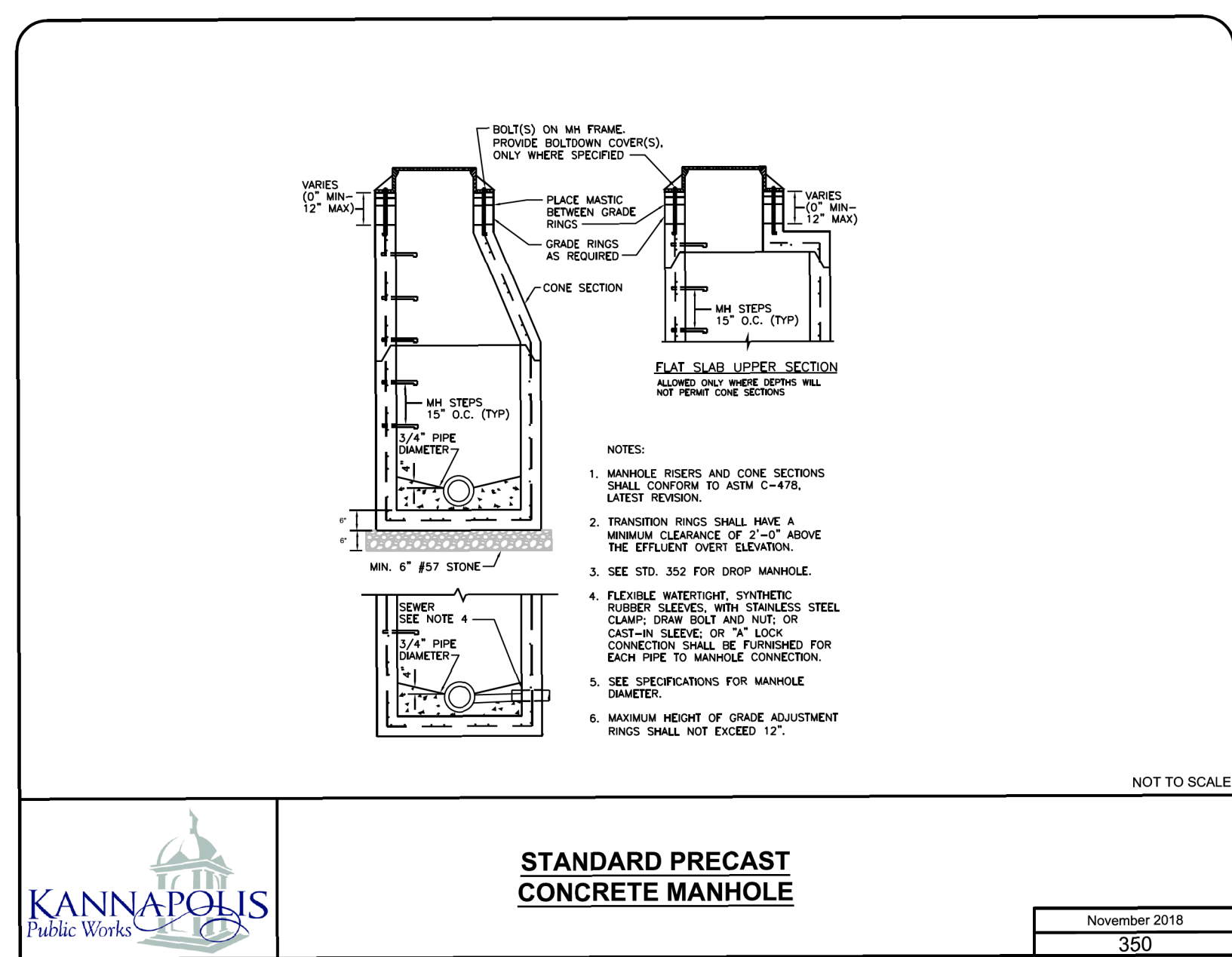
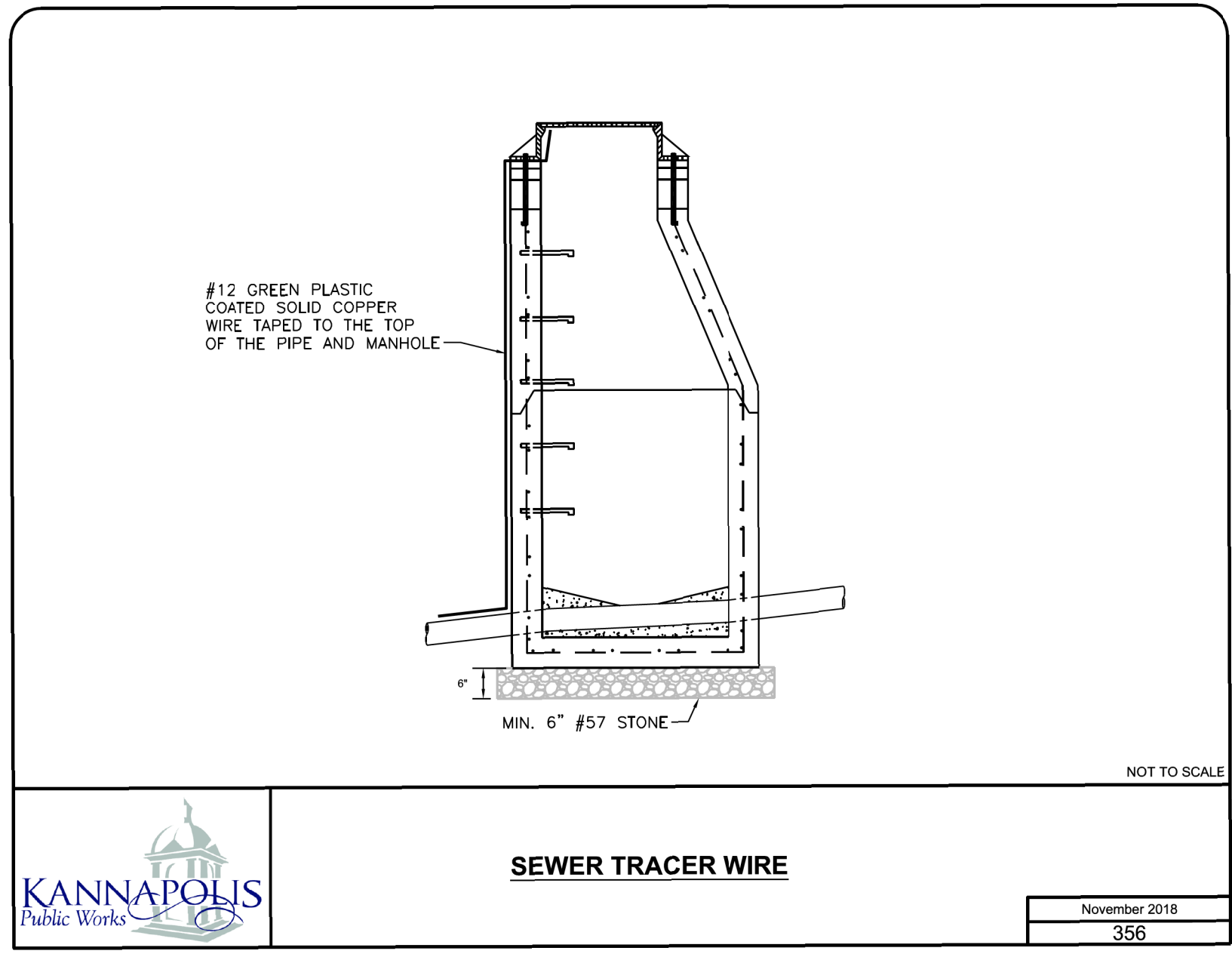
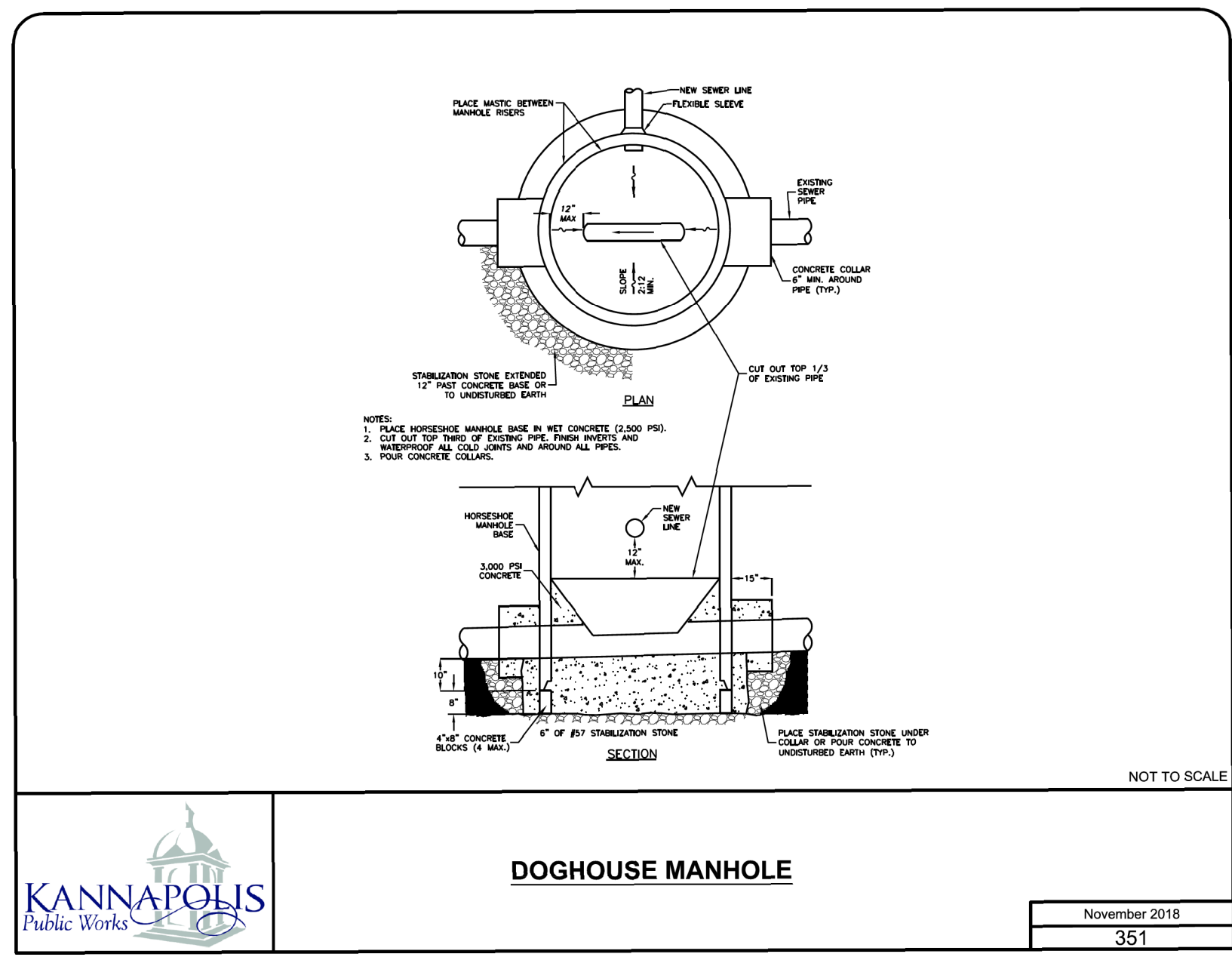


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PROJECT REFERENCE NO. <b>Y-4810K</b>	SHEET NO. <b>UC-3B</b>
DESIGNED BY: <b>JKC</b>	
DRAWN BY: <b>JNA</b>	
CHECKED BY: <b>JKC</b>	
APPROVED BY: <b>CLS</b>	
REVISED:	8/30/2022
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	UTILITY CONSTRUCTION PLANS ONLY
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

# PROJECT TYPICAL DETAILS

## UTILITY CONSTRUCTION

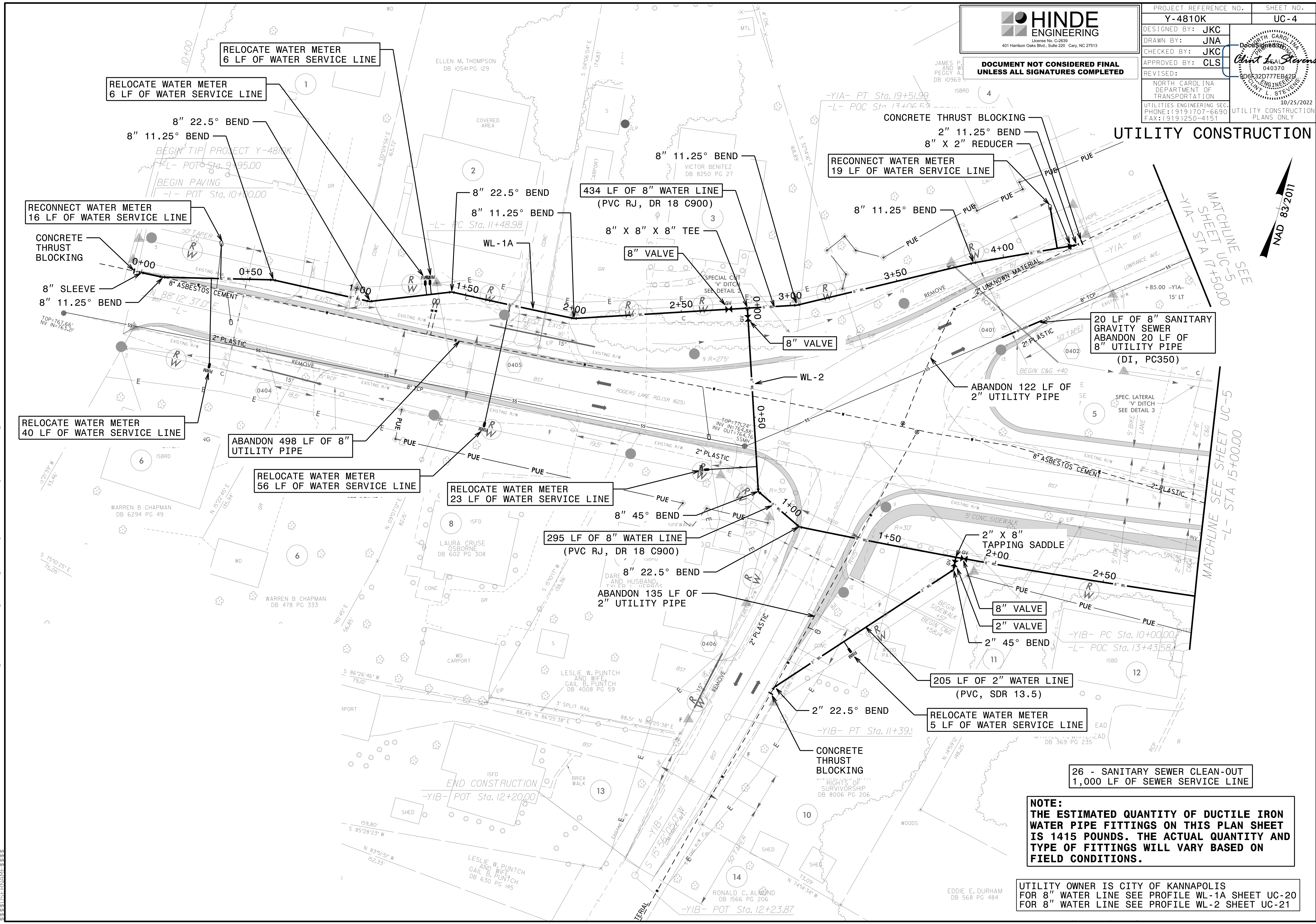


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PROJECT REFERENCE NO. <b>Y-4810K</b>	SHEET NO. <b>UC-4</b>
DESIGNED BY: <b>JKC</b>	
DRAWN BY: <b>JNA</b>	
CHECKED BY: <b>JKC</b>	
APPROVED BY: <b>CLS</b>	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY 10/25/2022	



**NOTE:**  
 THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1415 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

UTILITY OWNER IS CITY OF KANNAPOLIS  
 FOR 8" WATER LINE SEE PROFILE WL-1A SHEET UC-20  
 FOR 8" WATER LINE SEE PROFILE WL-2 SHEET UC-21

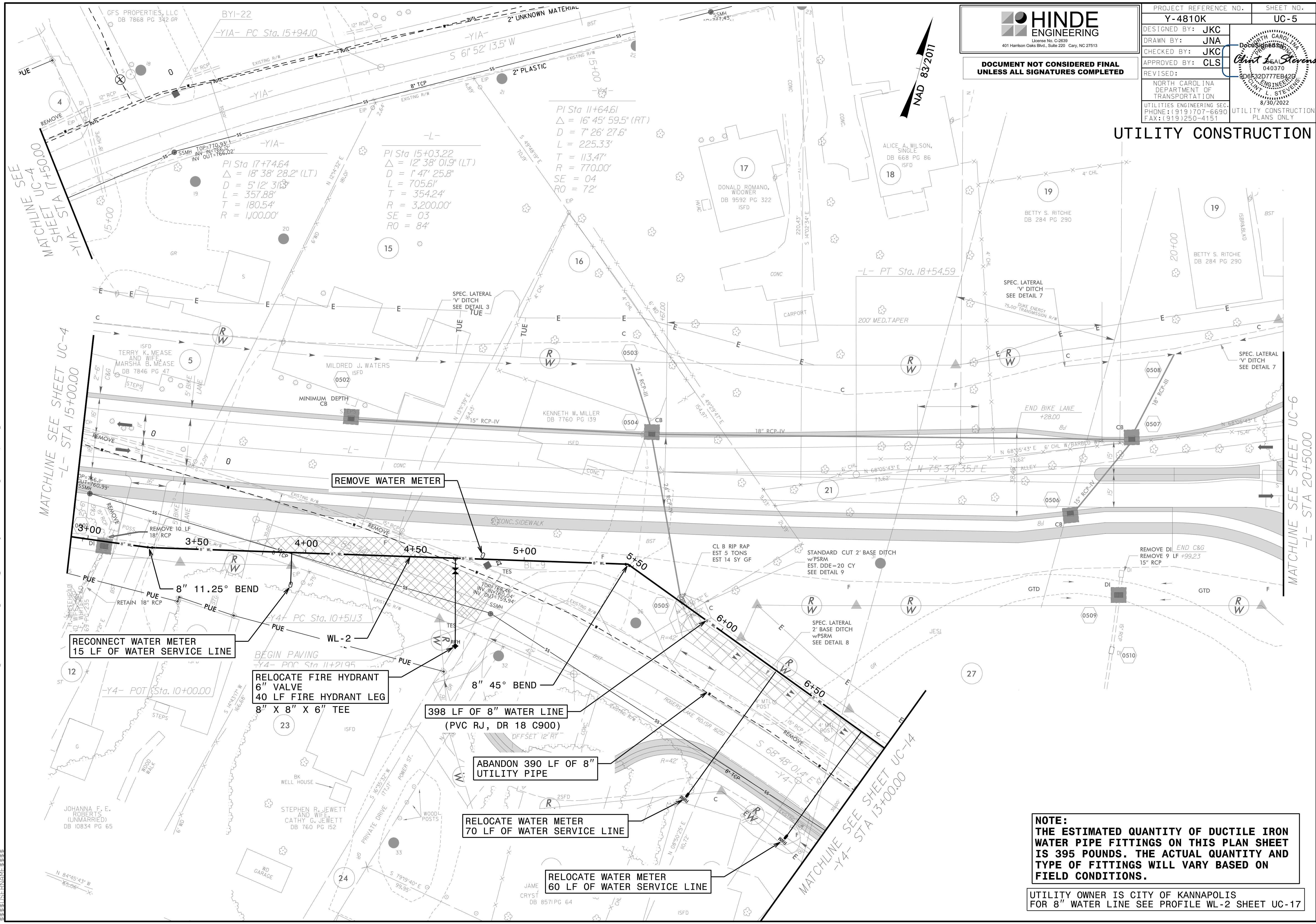
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PROJECT REFERENCE NO. <b>Y-4810K</b>	SHEET NO. <b>UC-5</b>
DESIGNED BY: <b>JKC</b>	
DRAWN BY: <b>JNA</b>	
CHECKED BY: <b>JKC</b>	
APPROVED BY: <b>CLS</b>	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

# UTILITY CONSTRUCTION

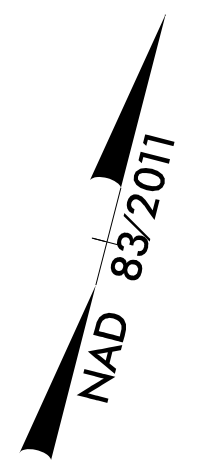


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- REMOVE WATER METER**
- RECONNECT WATER METER  
15 LF OF WATER SERVICE LINE**
- RELOCATE FIRE HYDRANT  
6" VALVE  
40 LF FIRE HYDRANT LEG  
8" X 8" X 6" TEE**
- 398 LF OF 8" WATER LINE  
(PVC RJ, DR 18 C900)**
- ABANDON 390 LF OF 8" UTILITY PIPE**
- RELOCATE WATER METER  
70 LF OF WATER SERVICE LINE**
- RELOCATE WATER METER  
60 LF OF WATER SERVICE LINE**

**NOTE:**  
 THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 395 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

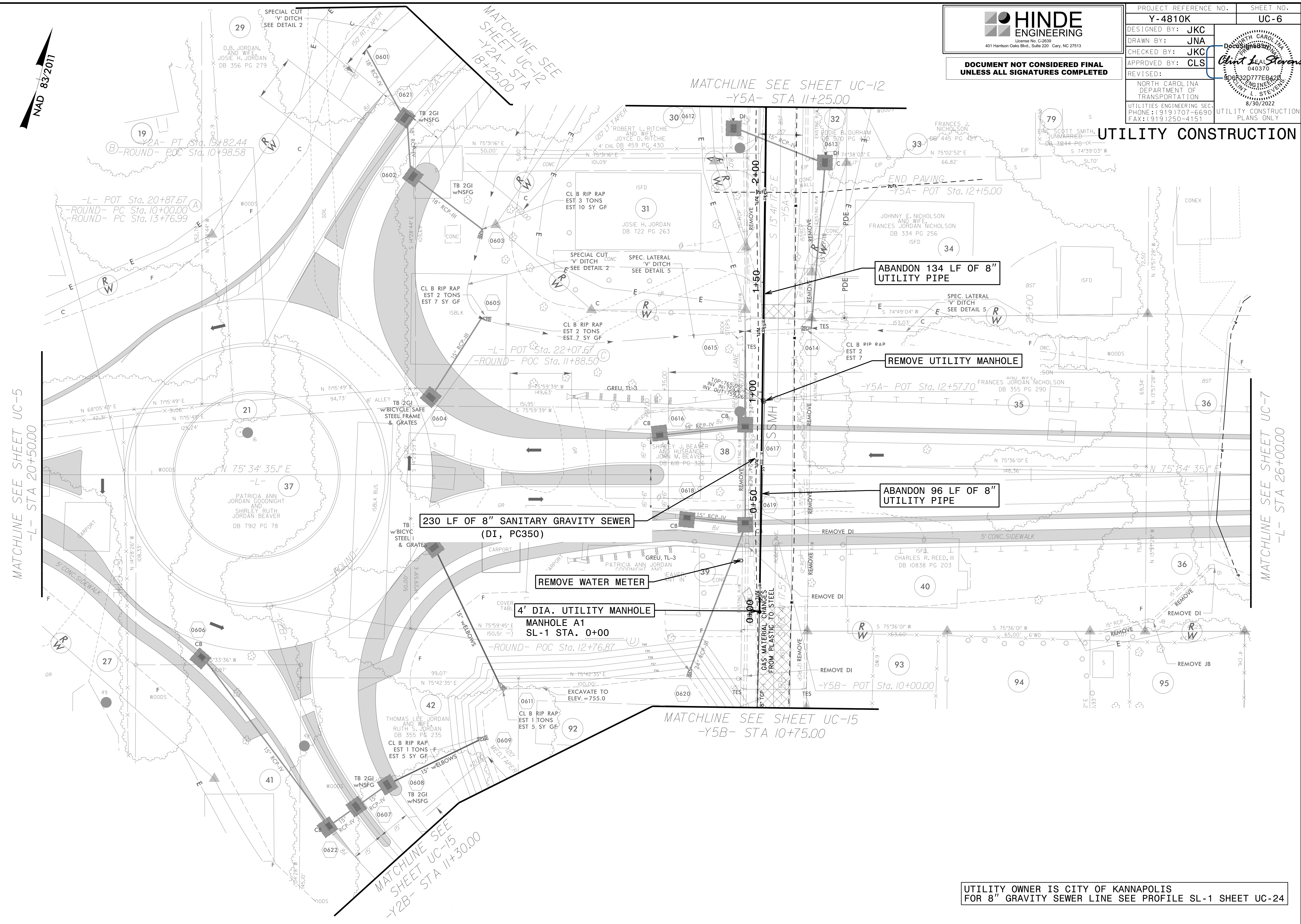
UTILITY OWNER IS CITY OF KANNAPOLIS  
 FOR 8" WATER LINE SEE PROFILE WL-2 SHEET UC-17



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PROJECT REFERENCE NO.	Y-4810K	SHEET NO.	UC-6
DESIGNED BY:	JKC		
DRAWN BY:	JNA		
CHECKED BY:	JKC		
APPROVED BY:	CLS		
REVISED:		UTILITY ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY



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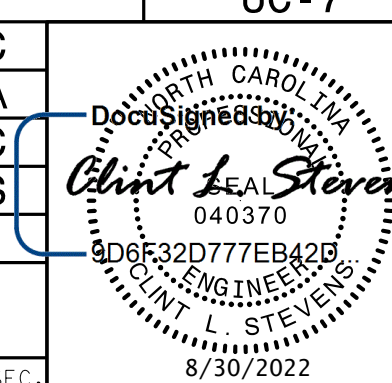
UTILITY OWNER IS CITY OF KANNAPOLIS  
 FOR 8" GRAVITY SEWER LINE SEE PROFILE SL-1 SHEET UC-24

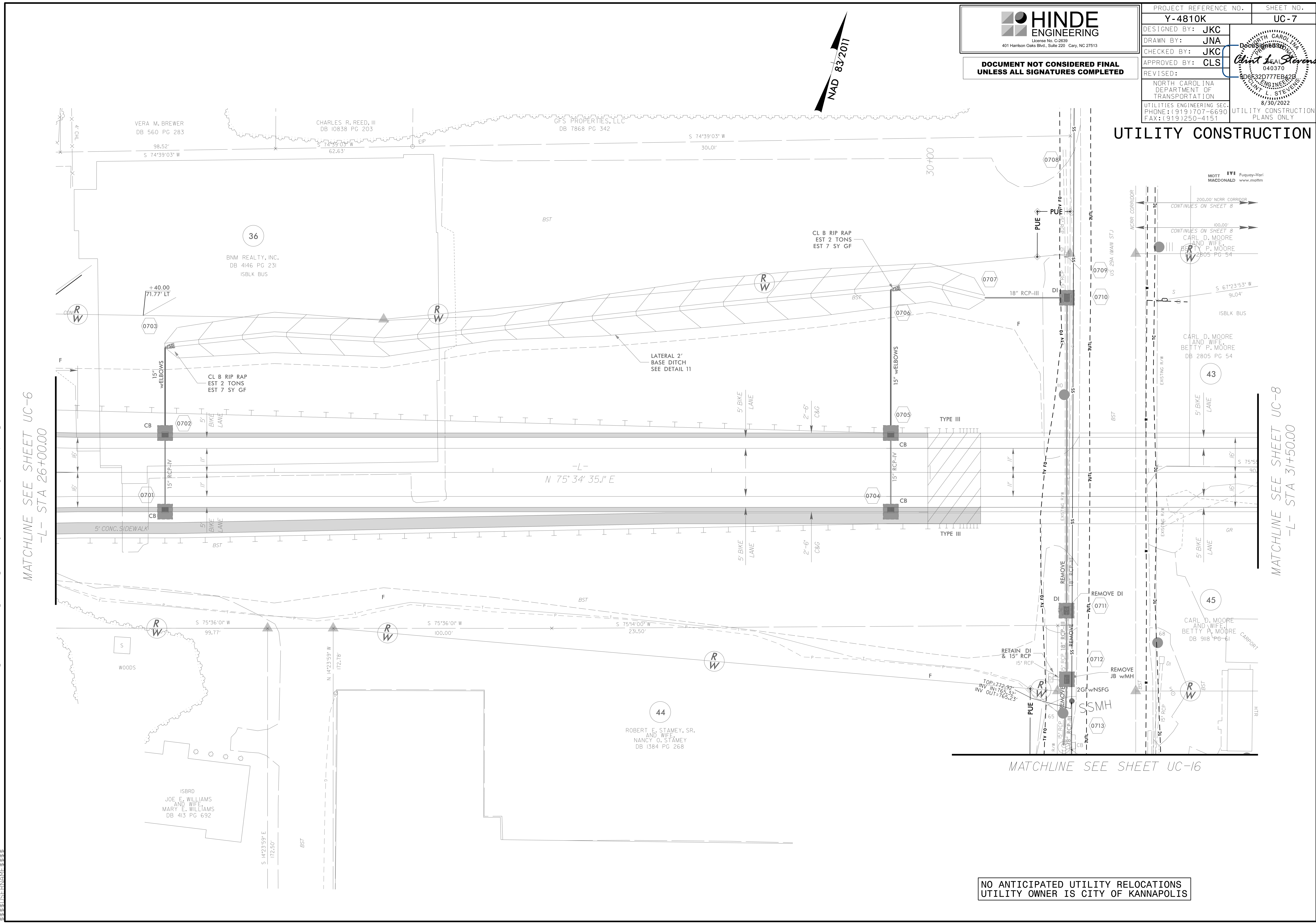




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 401 Harrison Oaks Blvd., Suite 220 Cary, NC 27513

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PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	UC-7
DESIGNED BY: JKC	
DRAWN BY: JNA	
CHECKED BY: JKC	
APPROVED BY: CLS	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	



### UTILITY CONSTRUCTION

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**NO ANTICIPATED UTILITY RELOCATIONS  
 UTILITY OWNER IS CITY OF KANNAPOLIS**

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 401 Harrison Oaks Blvd., Suite 220 Cary, NC 27513

**DOCUMENT NOT CONSIDERED FINAL  
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PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	UC-8
DESIGNED BY: JKC	
DRAWN BY: JNA	
CHECKED BY: JKC	
APPROVED BY: CLS	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY OWNER IS CITY OF KANNAPOLIS  
 FOR 8" GRAVITY SEWER LINE SEE PROFILE SL-2 SHEET UC-24

JOHN RANDOLPH TRIECE,  
 PHILIP TIMOTHY TRIECE, AND  
 DOUGLAS HENRY TRIECE,  
 TRUSTEES  
 DB 784 PG 287  
 DB 784 PG 299

35 LF OF  
 SEWER SERVICE LINE

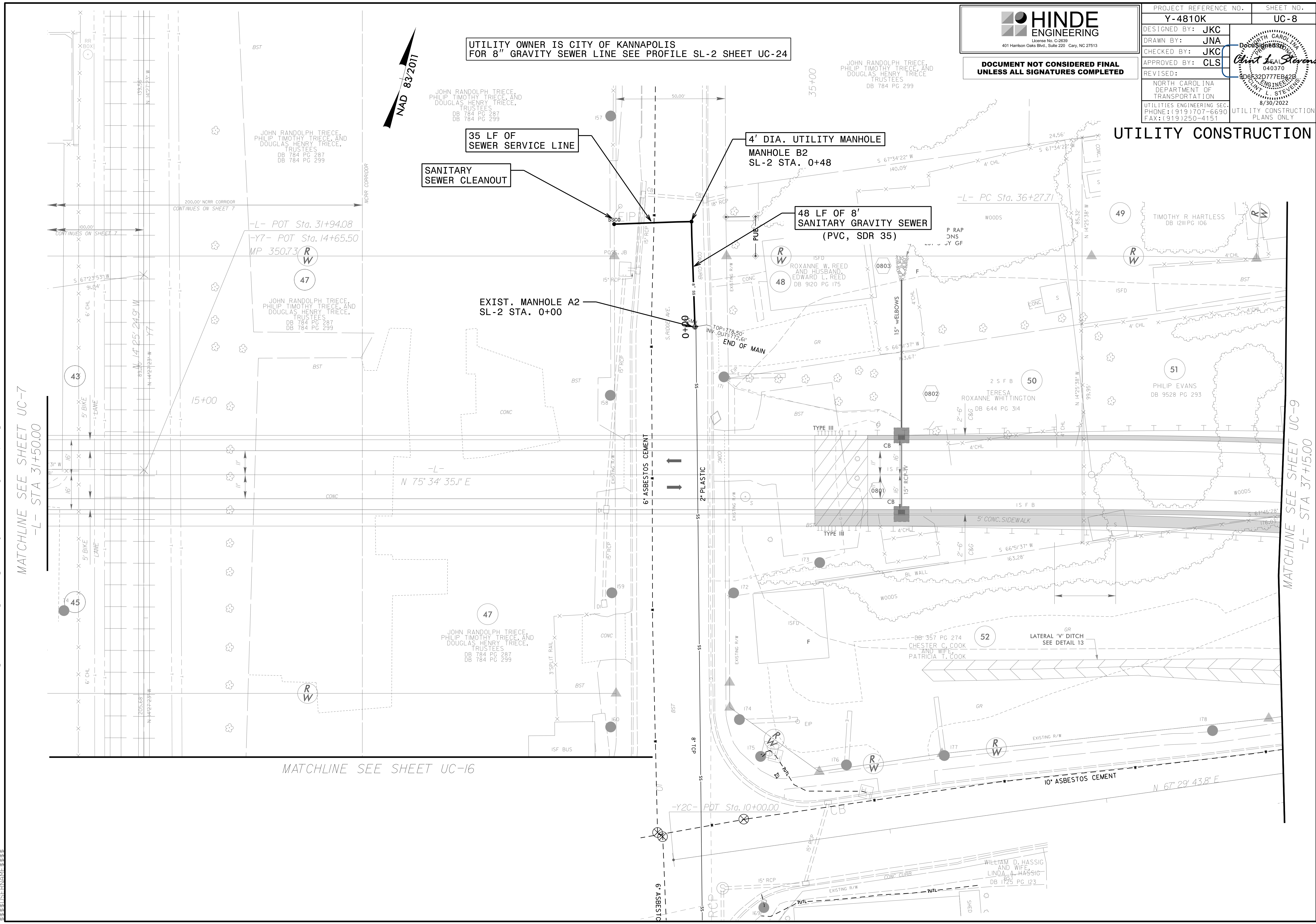
SANITARY  
 SEWER CLEANOUT

4' DIA. UTILITY MANHOLE  
 MANHOLE B2  
 SL-2 STA. 0+48

48 LF OF 8"  
 SANITARY GRAVITY SEWER  
 (PVC, SDR 35)

EXIST. MANHOLE A2  
 SL-2 STA. 0+00

UTILITY CONSTRUCTION



MATCHLINE SEE SHEET UC-7  
 -L- STA 31+50.00

MATCHLINE SEE SHEET UC-9  
 -L- STA 37+15.00

MATCHLINE SEE SHEET UC-16

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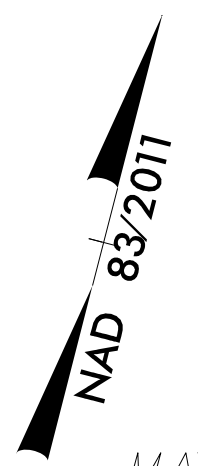
**NOTE:**  
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 2,130 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

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

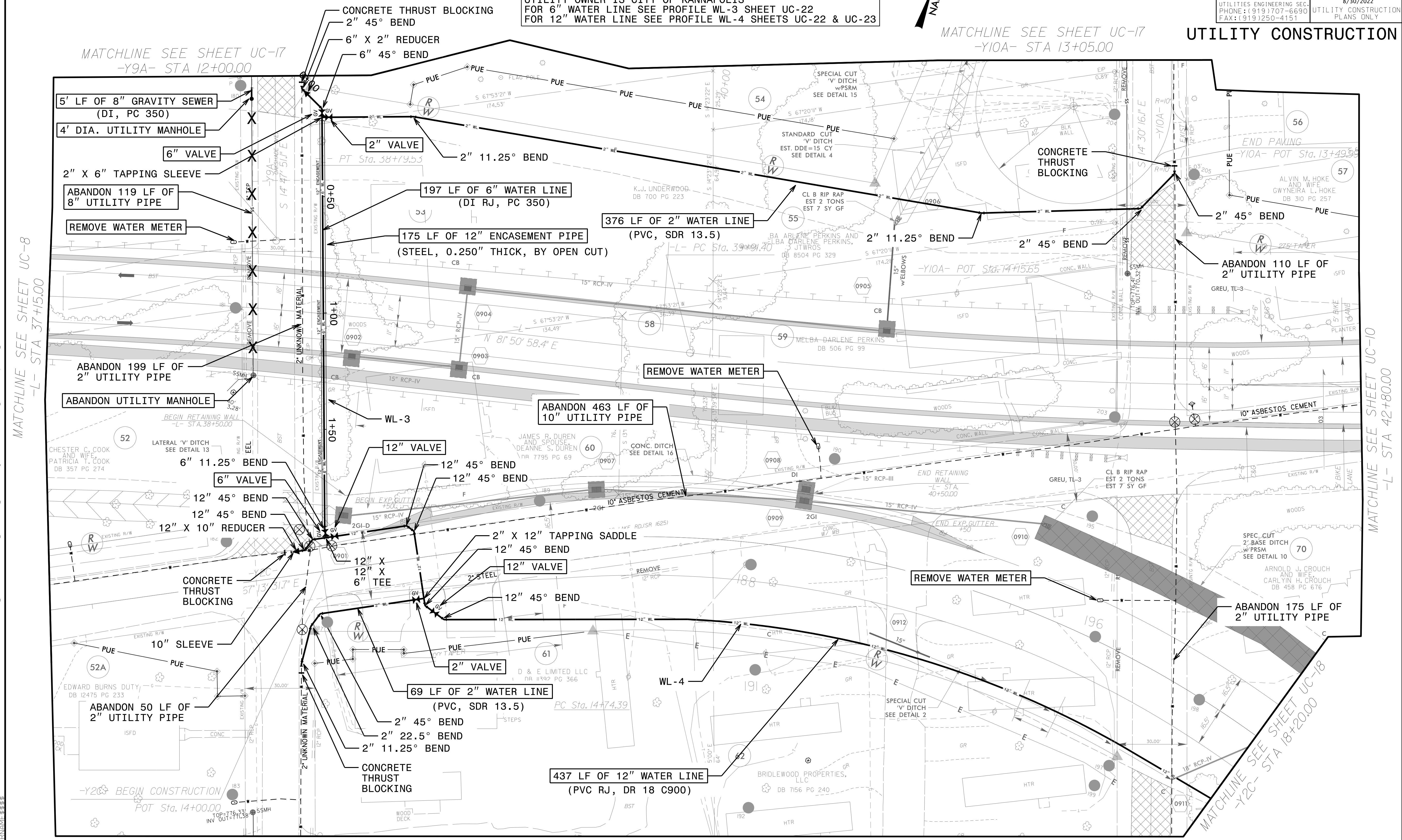
PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	UC-9
DESIGNED BY: JKC	
DRAWN BY: JNA	
CHECKED BY: JKC	
APPROVED BY: CLS	
REVISED:	UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY OWNER IS CITY OF KANNAPOLIS  
FOR 6" WATER LINE SEE PROFILE WL-3 SHEET UC-22  
FOR 12" WATER LINE SEE PROFILE WL-4 SHEETS UC-22 & UC-23



MATCHLINE SEE SHEET UC-17  
-Y10A- STA 13+05.00

**UTILITY CONSTRUCTION**



MATCHLINE SEE SHEET UC-17  
-Y9A- STA 12+00.00

MATCHLINE SEE SHEET UC-8  
-L- STA 37+15.00

MATCHLINE SEE SHEET UC-10  
-L- STA 42+80.00

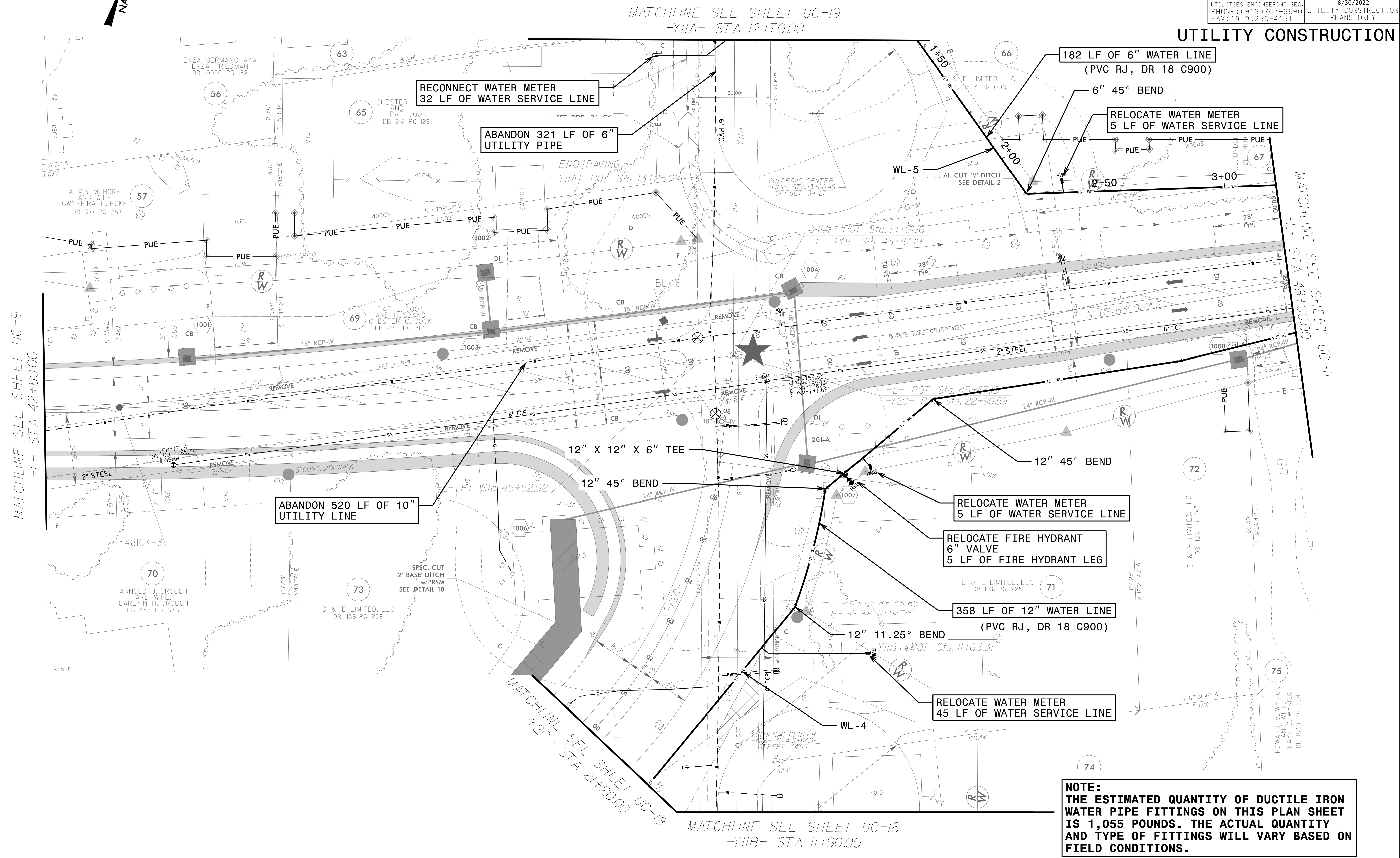
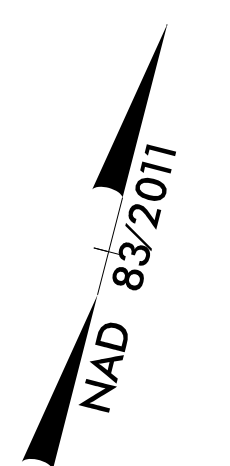
MATCHLINE SEE SHEET UC-18  
-Y2C- STA 18+20.00

20-AUG-2022 12:53  
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**HINDE ENGINEERING**  
 License No. C-2639  
 401 Harrison Oaks Blvd., Suite 220 Cary, NC 27513

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

PROJECT REFERENCE NO. <b>Y-4810K</b>	SHEET NO. <b>UC-10</b>
DESIGNED BY: <b>JKC</b>	
DRAWN BY: <b>JNA</b>	
CHECKED BY: <b>JKC</b>	
APPROVED BY: <b>CLS</b>	
REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151

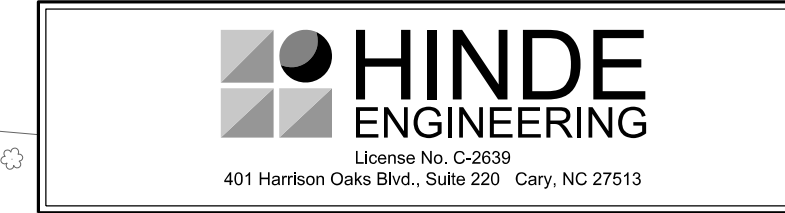


**UTILITY CONSTRUCTION**

**NOTE:**  
 THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1,055 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

UTILITY OWNER IS CITY OF KANNAPOLIS  
 FOR 12" WATER LINE SEE PROFILE WL-4 SHEETS UC-22 & UC-23  
 FOR 6" WATER LINE SEE PROFILE WL-5 SHEET UC-23

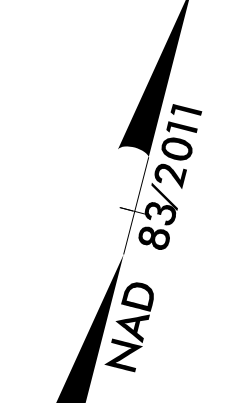
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PROJECT REFERENCE NO. Y-4810K	SHEET NO. UC-11
DESIGNED BY: JKC	
DRAWN BY: JNA	
CHECKED BY: JKC	
APPROVED BY: CLS	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

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

# UTILITY CONSTRUCTION



- 42 LF OF 6" WATER LINE (PVC RJ, DR 18 C900)
- WL-5
- 6" 45° BEND
- 6" 45° BEND
- 6" VALVE
- 12" X 6" REDUCER
- 12" X 12" X 12" TEE
- 12" VALVE
- 12" 45° BEND
- 21 LF OF 12" WATER LINE (PVC RJ, DR 18 C900)
- 12" X 10" REDUCER
- 10" 45° BEND
- CONCRETE THRUST BLOCKING
- 3" 45° BEND
- 2" STEEL
- 2GI-A
- WL-4
- 12" 45° BEND
- 12" 45° BEND
- RELOCATE WATER METER
- 26 LF OF WATER SERVICE LINE
- RELOCATE WATER METER
- 26 LF OF WATER SERVICE LINE
- ABANDON 48 LF OF 10" UTILITY PIPE
- 78 LF OF 12" WATER LINE (PVC RJ, DR 18 C900)

MATCHLINE SEE SHEET UC-10  
-L- STA 48+00.00

MATCHLINE SEE SHEET UC-10  
-L- STA 48+00.00

75 HOWARD V. WYRICK  
AND WIFE  
FAYE C. WYRICK  
DB 1840 PG 324

**NOTE:**  
THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1,700 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

UTILITY OWNER IS CITY OF KANNAPOLIS  
FOR 12" WATER LINE SEE PROFILE WL-4 SHEETS UC-22 & UC-23  
FOR 6" WATER LINE SEE PROFILE WL-5 SHEET UC-23

20\_AUG-2022\_12:53  
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 JSTEVENS

**HINDE ENGINEERING**  
 License No. C-2639  
 401 Harrison Oaks Blvd., Suite 220 Cary, NC 27513

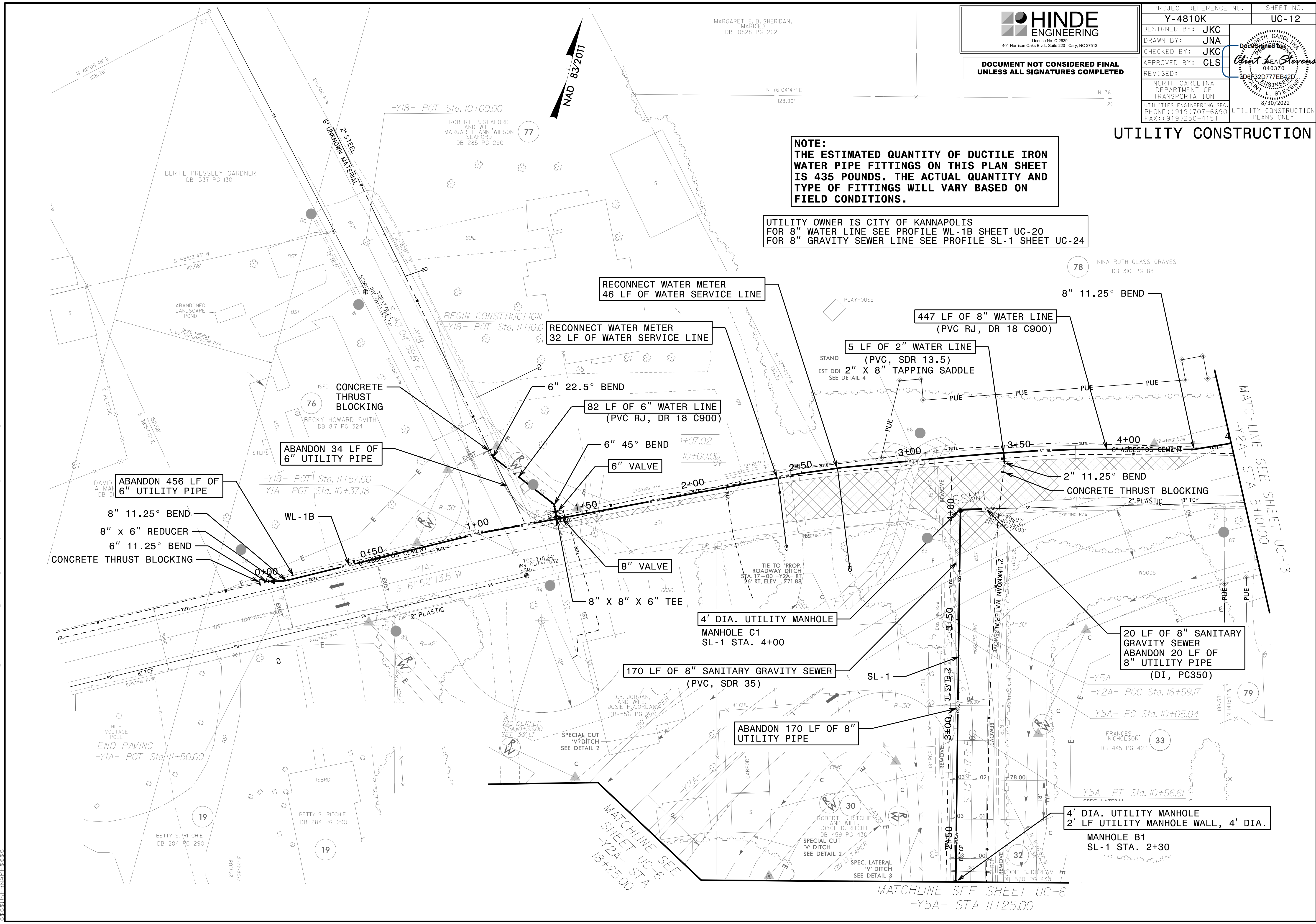
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 UNLESS ALL SIGNATURES COMPLETED**

PROJECT REFERENCE NO. <b>Y-4810K</b>	SHEET NO. <b>UC-12</b>
DESIGNED BY: <b>JKC</b>	
DRAWN BY: <b>JNA</b>	
CHECKED BY: <b>JKC</b>	
APPROVED BY: <b>CLS</b>	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SECTION PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

### UTILITY CONSTRUCTION

**NOTE:**  
 THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 435 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

UTILITY OWNER IS CITY OF KANNAPOLIS  
 FOR 8" WATER LINE SEE PROFILE WL-1B SHEET UC-20  
 FOR 8" GRAVITY SEWER LINE SEE PROFILE SL-1 SHEET UC-24



20-AUG-2022 12:53:33 PROJECTS\2017\A2017401.000\NCDOT\_Y-4810K\Design\Utilities\Engineering\UC-Proj\Y4810K-ut\_rdyj12\_UC12\_psh.dgn  
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MATCHLINE SEE SHEET UC-6  
 -Y2A- STA 18+25.00

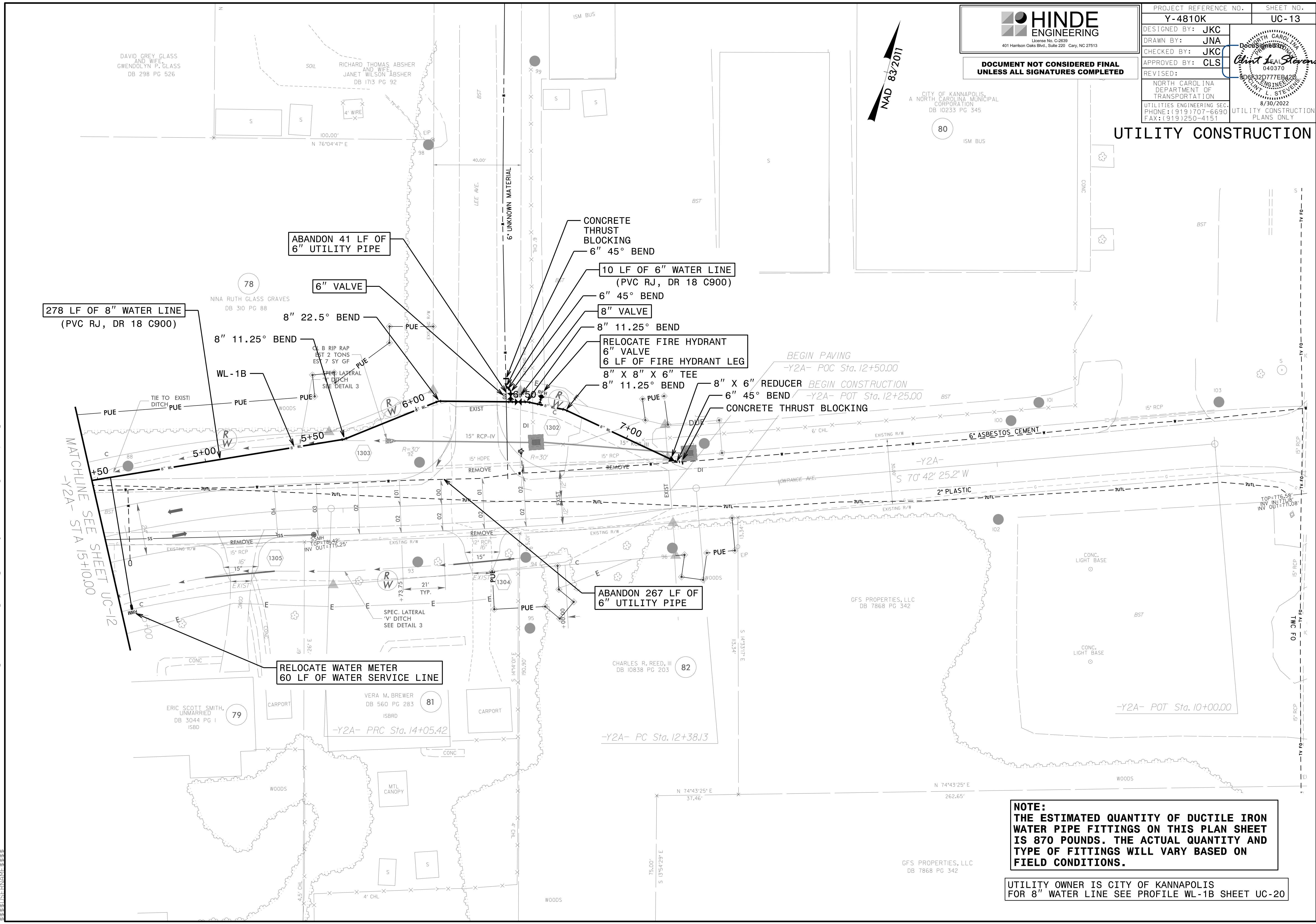
MATCHLINE SEE SHEET UC-6  
 -Y5A- STA 11+25.00

MATCHLINE SEE SHEET UC-13  
 -Y2A- STA 15+10.00

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 401 Harrison Oaks Blvd., Suite 220 Cary, NC 27513

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

PROJECT REFERENCE NO. <b>Y-4810K</b>	SHEET NO. <b>UC-13</b>
DESIGNED BY: <b>JKC</b>	
DRAWN BY: <b>JNA</b>	
CHECKED BY: <b>JKC</b>	
APPROVED BY: <b>CLS</b>	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	



**NOTE:**  
 THE ESTIMATED QUANTITY OF DUCTILE IRON  
 WATER PIPE FITTINGS ON THIS PLAN SHEET  
 IS 870 POUNDS. THE ACTUAL QUANTITY AND  
 TYPE OF FITTINGS WILL VARY BASED ON  
 FIELD CONDITIONS.

UTILITY OWNER IS CITY OF KANNAPOLIS  
 FOR 8" WATER LINE SEE PROFILE WL-1B SHEET UC-20

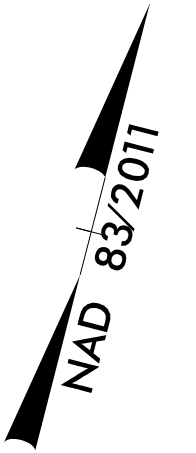
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**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**

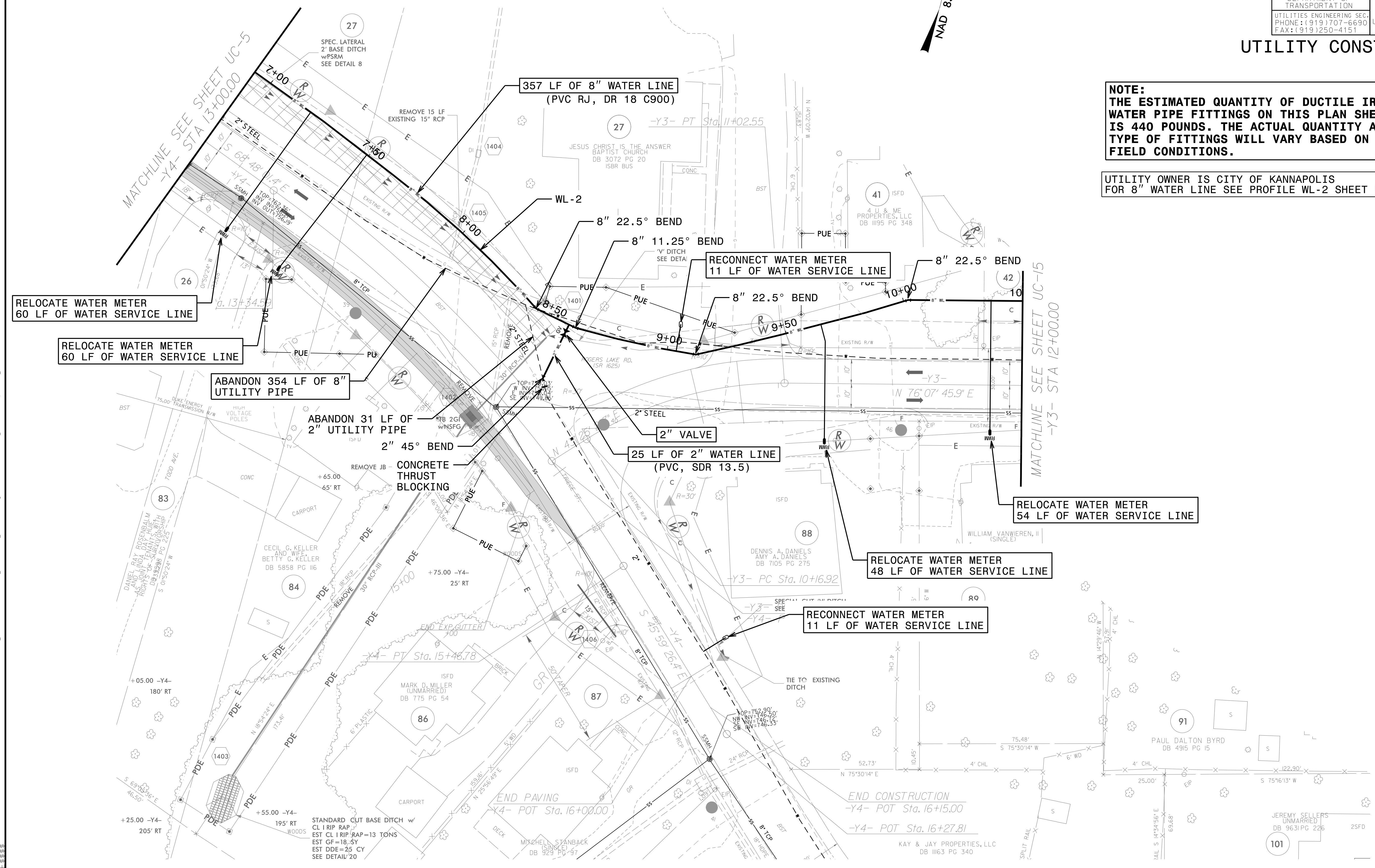
PROJECT REFERENCE NO.	SHEET NO.
Y-4810K	UC-14
DESIGNED BY: JKC	
DRAWN BY: JNA	
CHECKED BY: JKC	
APPROVED BY: CLS	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	UTILITY CONSTRUCTION PLANS ONLY
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

**UTILITY CONSTRUCTION**



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

UTILITY OWNER IS CITY OF KANNAPOLIS  
 FOR 8" WATER LINE SEE PROFILE WL-2 SHEET UC-21



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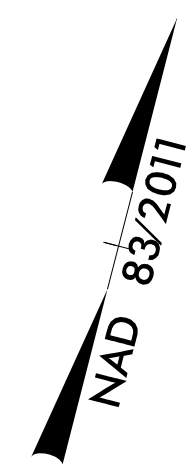


MATCHLINE SEE SHEET UC-6 -Y5B- STA 10+75.00

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 UNLESS ALL SIGNATURES COMPLETED**

PROJECT REFERENCE NO. <b>Y-4810K</b>	SHEET NO. <b>UC-15</b>
DESIGNED BY: <b>JKC</b>	
DRAWN BY: <b>JNA</b>	
CHECKED BY: <b>JKC</b>	
APPROVED BY: <b>CLS</b>	
REVISED:	UTILITY CONSTRUCTION PLANS ONLY
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SECTION PHONE: (919) 707-6690 FAX: (919) 250-4151	



MATCHLINE SEE SHEET UC-14 -Y3- STA 12+00.00

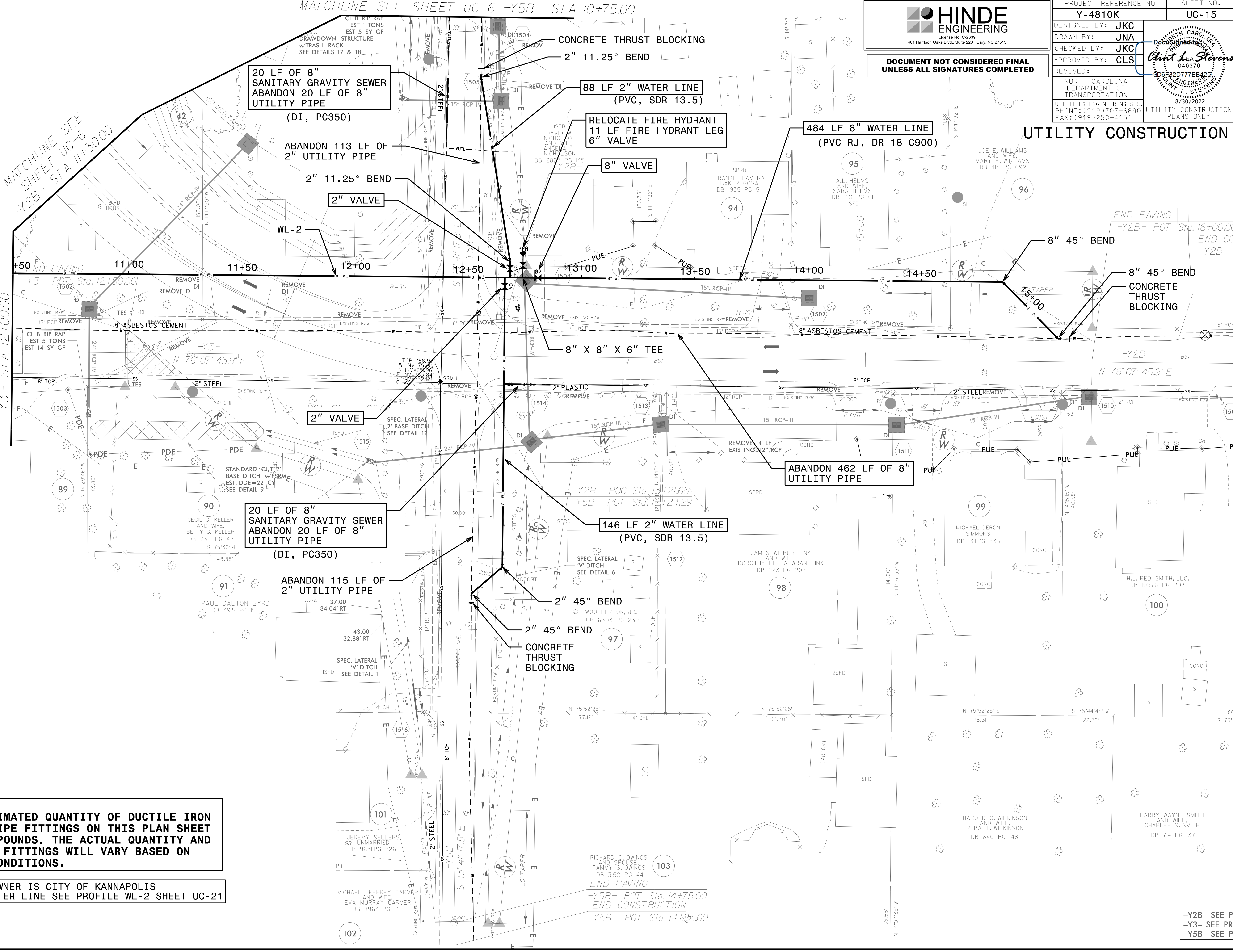
MATCHLINE SEE SHEET UC-6 -Y2B- STA 11+30.00

**NOTE:**  
 THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 395 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

UTILITY OWNER IS CITY OF KANNAPOLIS FOR 8" WATER LINE SEE PROFILE WL-2 SHEET UC-21

**UTILITY CONSTRUCTION**

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-Y2B- SEE PR  
 -Y3- SEE PR  
 -Y5B- SEE PR

MATCHLINE SEE SHEET UC-7

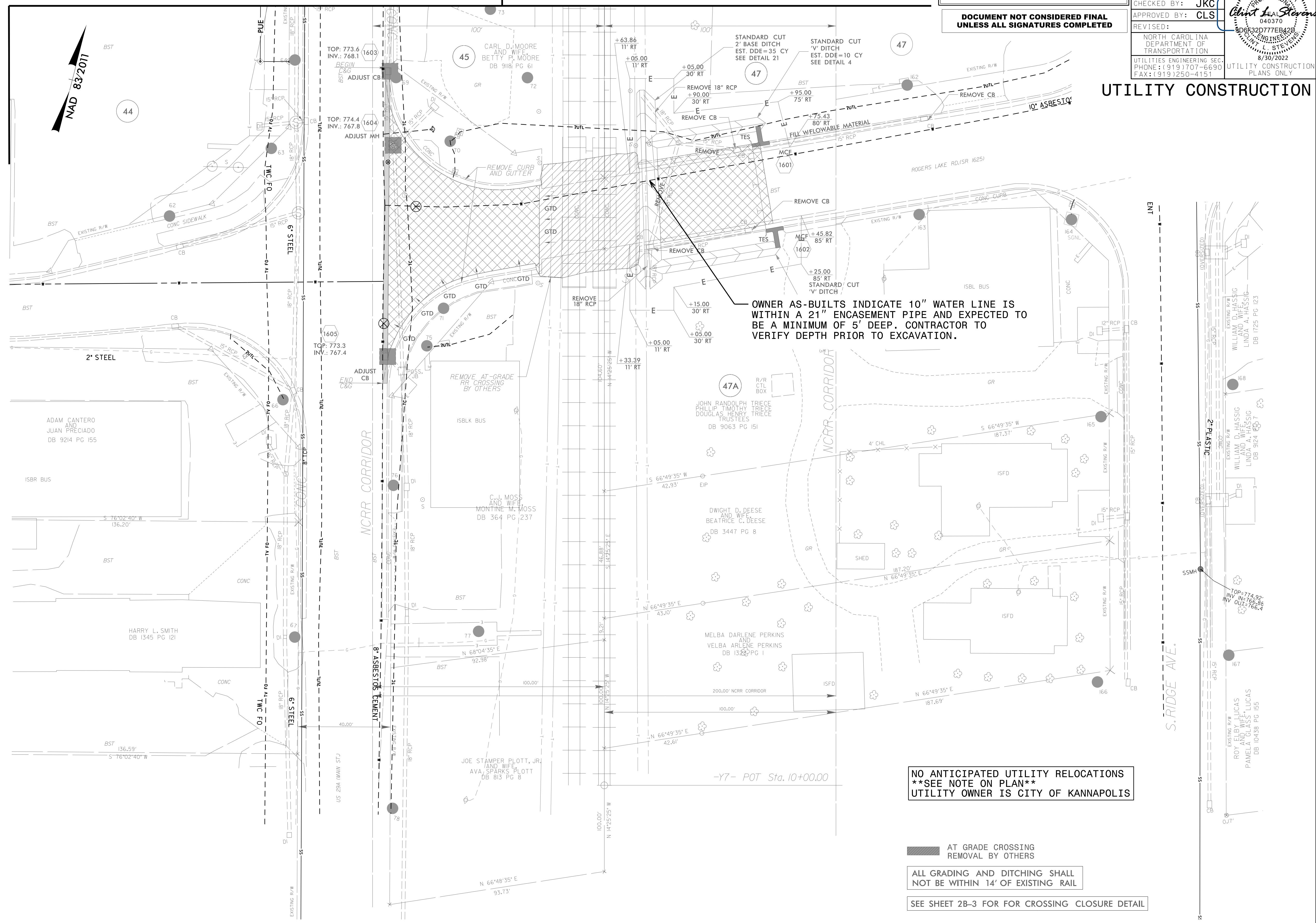
MATCHLINE SEE SHEET UC-8



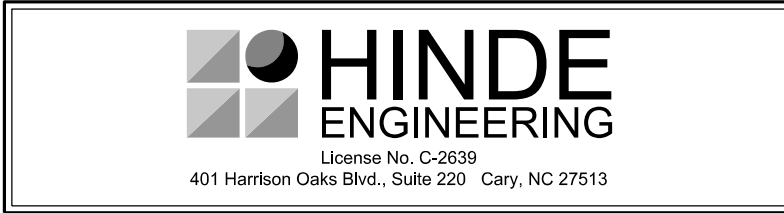
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PROJECT REFERENCE NO. <b>Y-4810K</b>	SHEET NO. <b>UC-16</b>
DESIGNED BY: <b>JKC</b>	
DRAWN BY: <b>JNA</b>	
CHECKED BY: <b>JKC</b>	
APPROVED BY: <b>CLS</b>	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

# UTILITY CONSTRUCTION



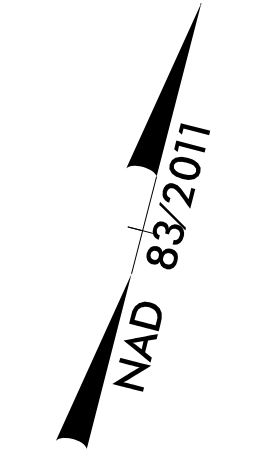
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PROJECT REFERENCE NO. <b>Y-4810K</b>	SHEET NO. <b>UC-17</b>
DESIGNED BY: <b>JKC</b>	
DRAWN BY: <b>JNA</b>	
CHECKED BY: <b>JKC</b>	
APPROVED BY: <b>CLS</b>	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151 UTILITY CONSTRUCTION PLANS ONLY	

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UNLESS ALL SIGNATURES COMPLETED**

**NO ANTICIPATED UTILITY RELOCATIONS  
UTILITY OWNER IS CITY OF KANNAPOLIS**



### UTILITY CONSTRUCTION



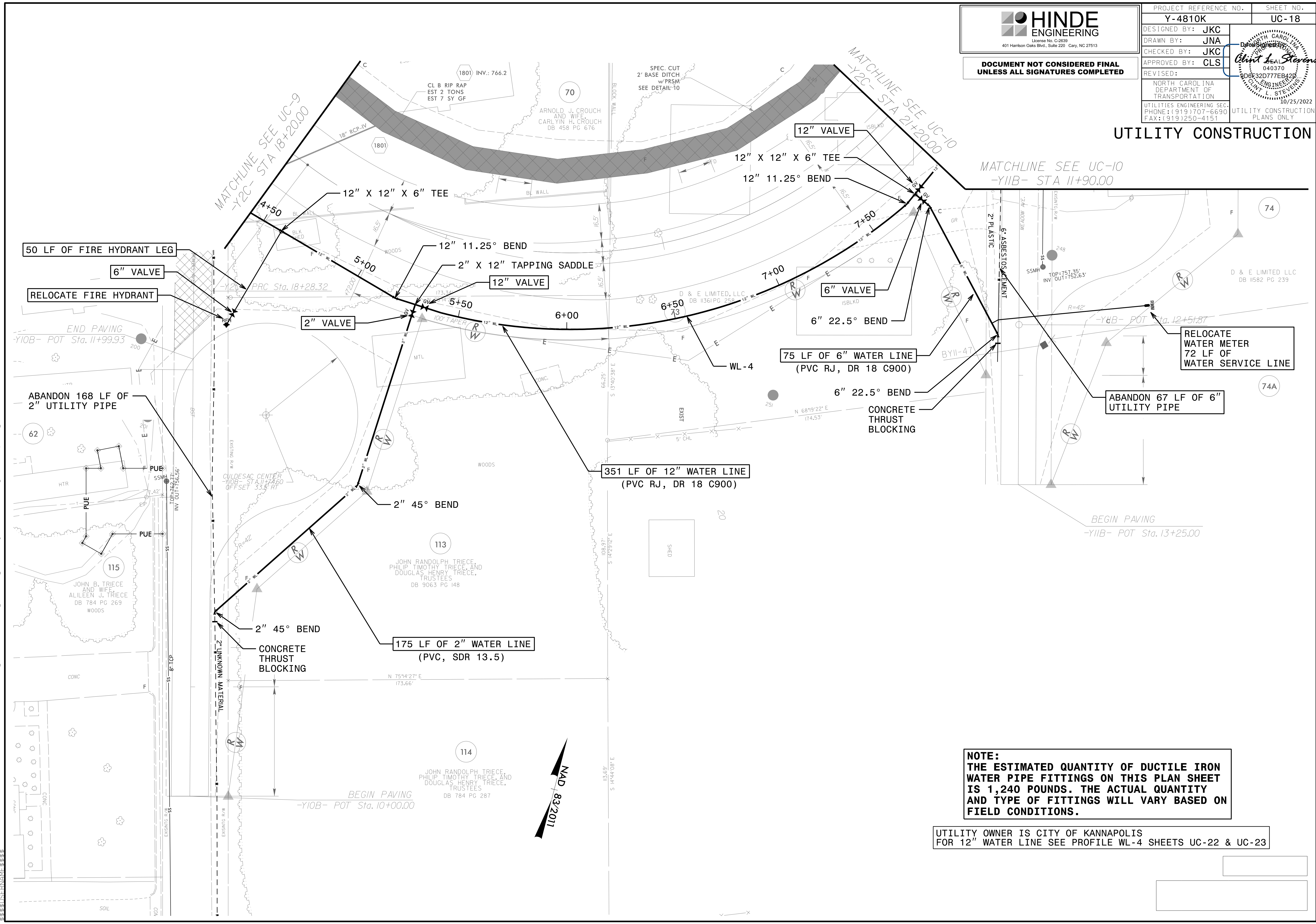
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 401 Harrison Oaks Blvd., Suite 220 Cary, NC 27513

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

PROJECT REFERENCE NO. <b>Y-4810K</b>	SHEET NO. <b>UC-18</b>
DESIGNED BY: <b>JKC</b>	
DRAWN BY: <b>JNA</b>	
CHECKED BY: <b>JKC</b>	
APPROVED BY: <b>CLS</b>	
REVISED:	10/25/2022
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

**UTILITY CONSTRUCTION**




**NOTE:**  
 THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 1,240 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

UTILITY OWNER IS CITY OF KANNAPOLIS  
 FOR 12" WATER LINE SEE PROFILE WL-4 SHEETS UC-22 & UC-23

25-OCT-2022 10:55:56 PROJECTS\2017\A2017401.0000.NCDDOT.Y-4810K\Design\Utilities\Engineering\UC\Proj\Y4810K\ut\_r\dj18\_UC18\_psh.dgn  
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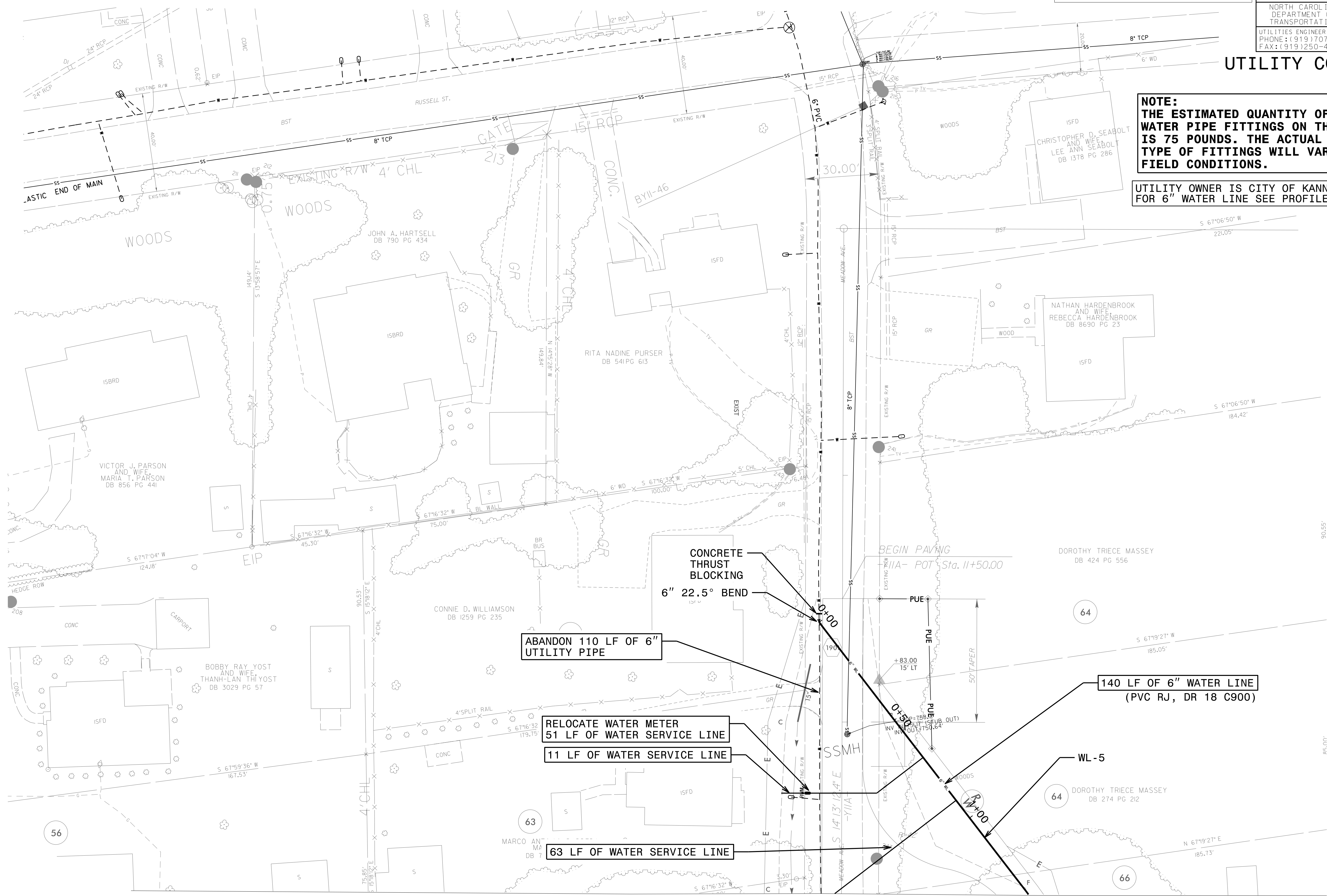
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**

PROJECT REFERENCE NO. <b>Y-4810K</b>	SHEET NO. <b>UC-19</b>
DESIGNED BY: <b>JKC</b>	
DRAWN BY: <b>JNA</b>	
CHECKED BY: <b>JKC</b>	
APPROVED BY: <b>CLS</b>	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

### UTILITY CONSTRUCTION

**NOTE:**  
 THE ESTIMATED QUANTITY OF DUCTILE IRON WATER PIPE FITTINGS ON THIS PLAN SHEET IS 75 POUNDS. THE ACTUAL QUANTITY AND TYPE OF FITTINGS WILL VARY BASED ON FIELD CONDITIONS.

UTILITY OWNER IS CITY OF KANNAPOLIS  
 FOR 6" WATER LINE SEE PROFILE WL-5 SHEET UC-23



ABANDON 110 LF OF 6" UTILITY PIPE

CONCRETE THRUST BLOCKING  
 6" 22.5° BEND

RELOCATE WATER METER  
 51 LF OF WATER SERVICE LINE

11 LF OF WATER SERVICE LINE

63 LF OF WATER SERVICE LINE

140 LF OF 6" WATER LINE  
 (PVC RJ, DR 18 C900)

MATCHLINE SEE UC-10  
 -YIIA- STA 12+70.00

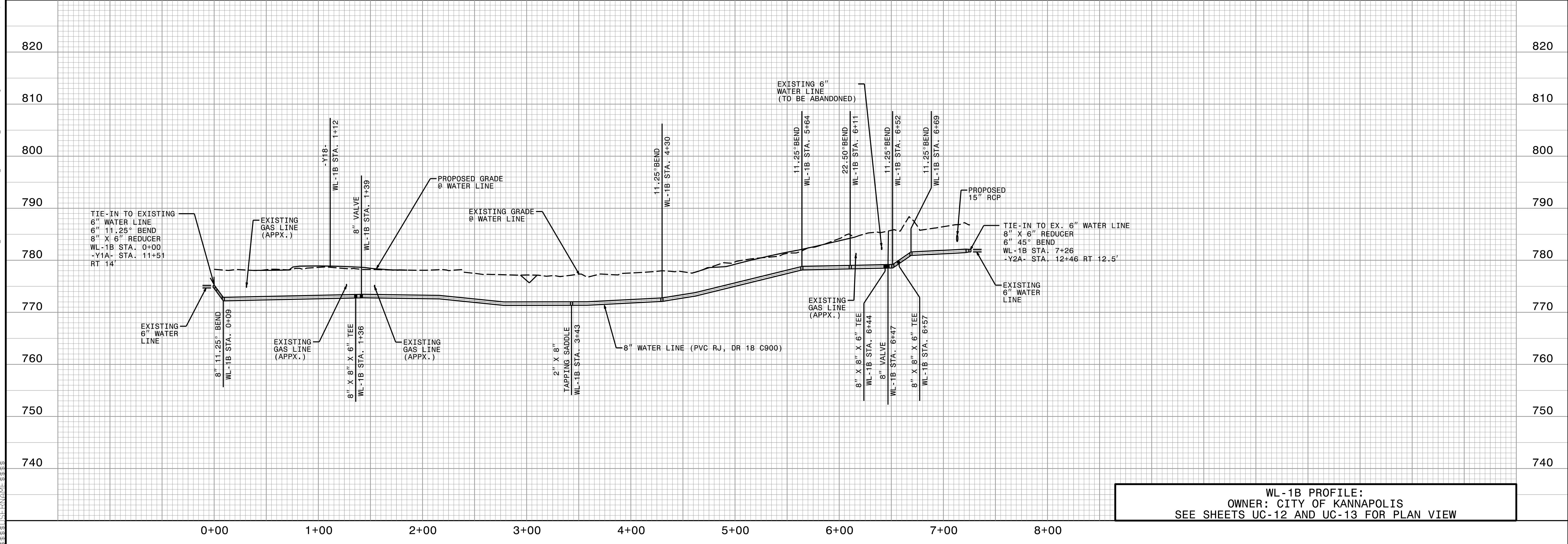
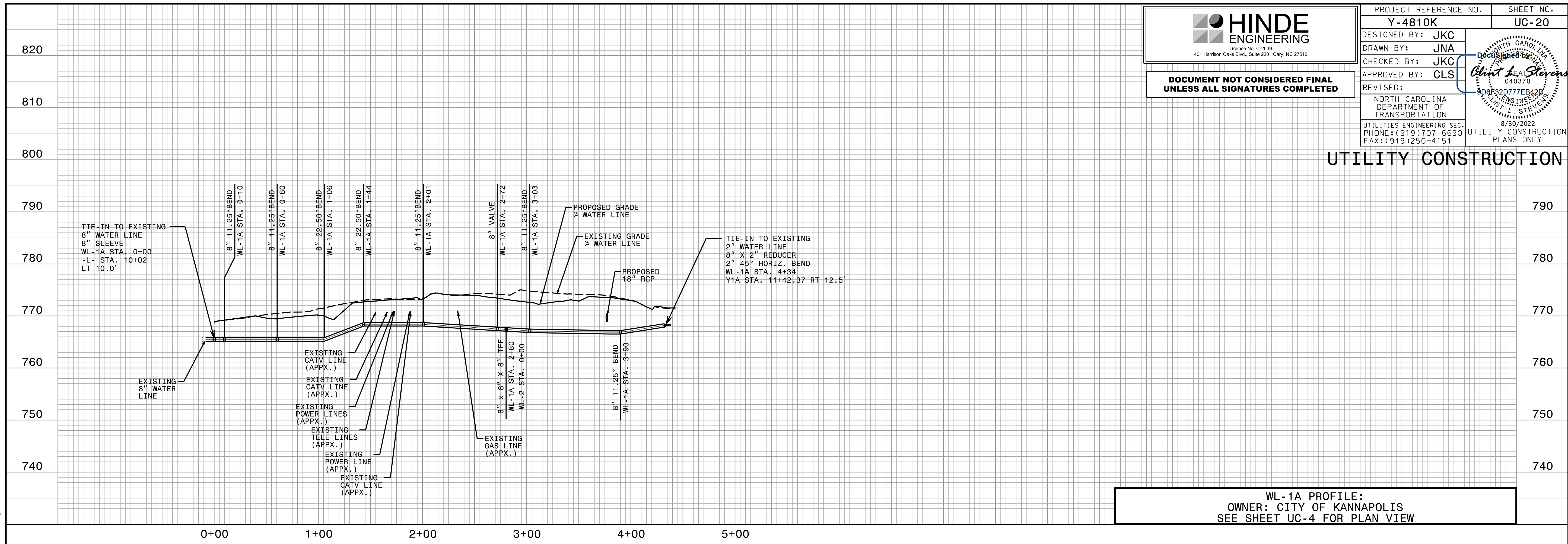
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 401 Harrison Oaks Blvd., Suite 220 Cary, NC 27513

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 UNLESS ALL SIGNATURES COMPLETED**

PROJECT REFERENCE NO. <b>Y-4810K</b>	SHEET NO. <b>UC-20</b>
DESIGNED BY: <b>JKC</b>	
DRAWN BY: <b>JNA</b>	
CHECKED BY: <b>JKC</b>	
APPROVED BY: <b>CLS</b>	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	8/30/2022
UTILITY ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	UTILITY CONSTRUCTION PLANS ONLY

### UTILITY CONSTRUCTION



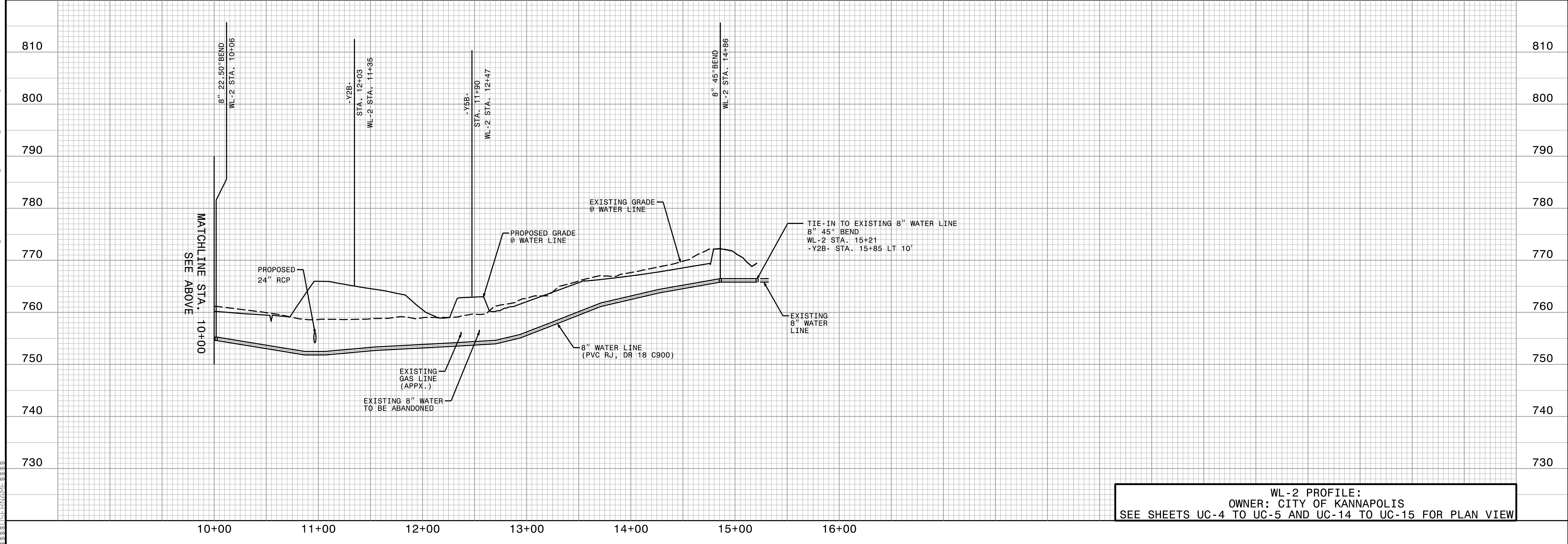
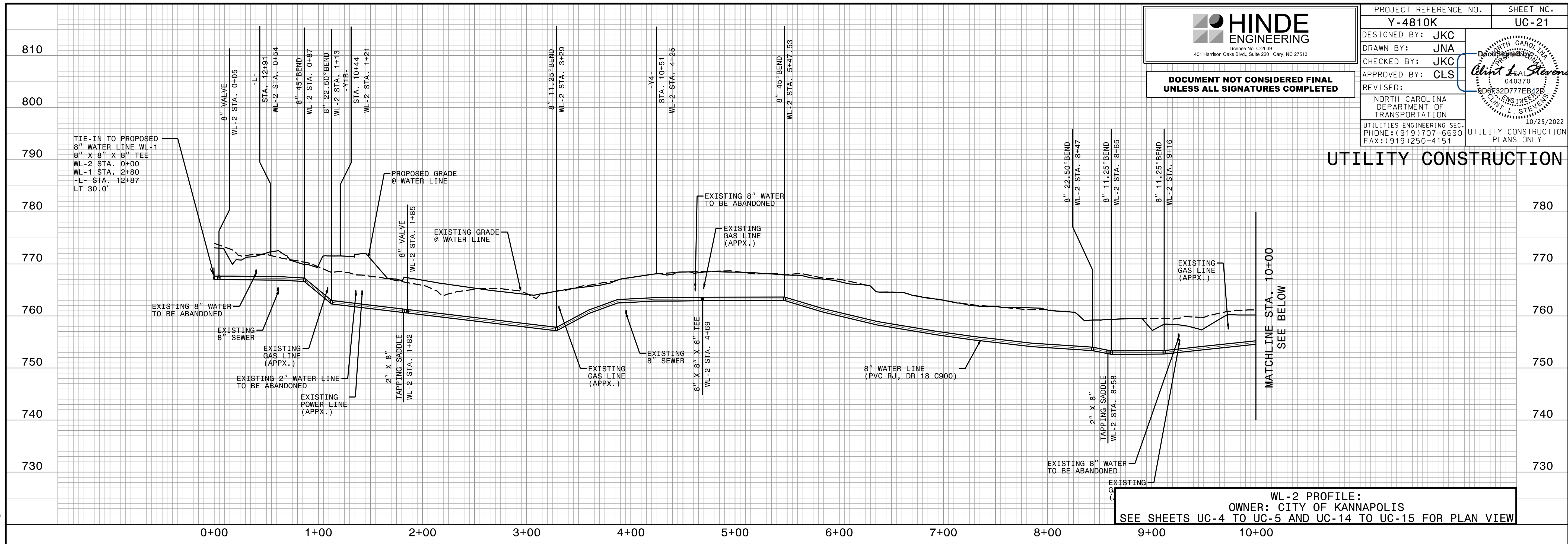
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 401 Harrison Oaks Blvd., Suite 220 Cary, NC 27513

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

PROJECT REFERENCE NO. <b>Y-4810K</b>	SHEET NO. <b>UC-21</b>
DESIGNED BY: <b>JKC</b>	
DRAWN BY: <b>JNA</b>	
CHECKED BY: <b>JKC</b>	
APPROVED BY: <b>CLS</b>	
REVISED:	10/25/2022
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

### UTILITY CONSTRUCTION



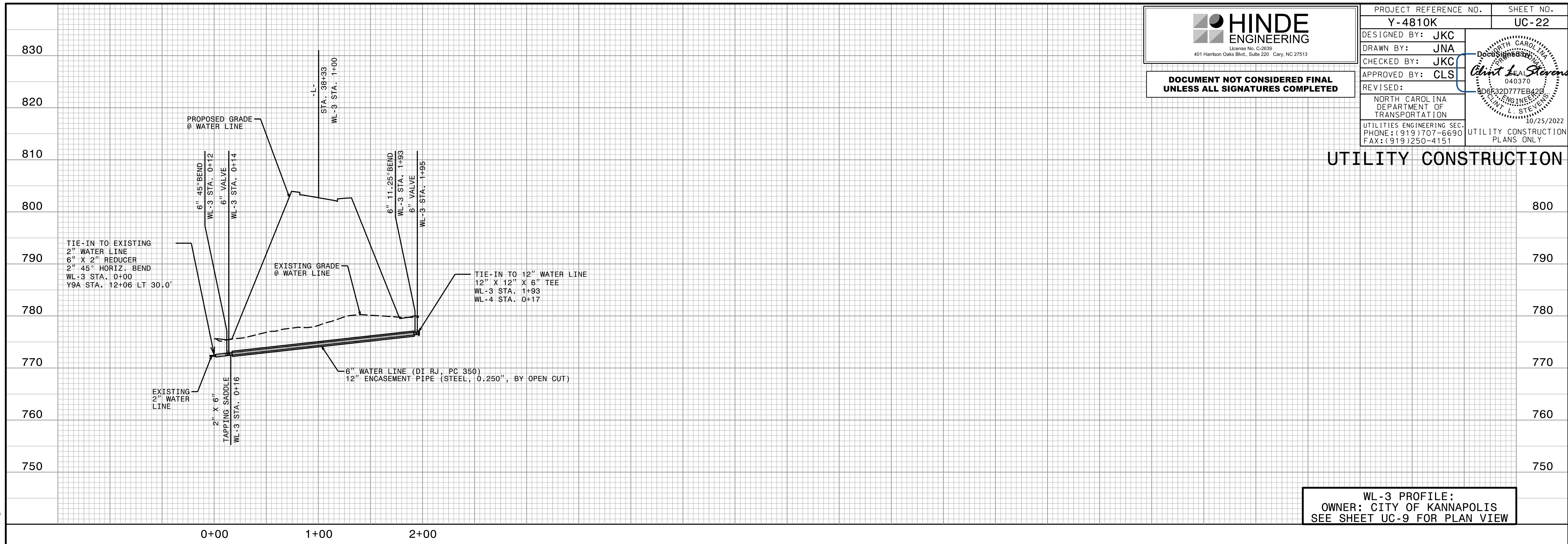
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 401 Harrison Oaks Blvd., Suite 220 Cary, NC 27513

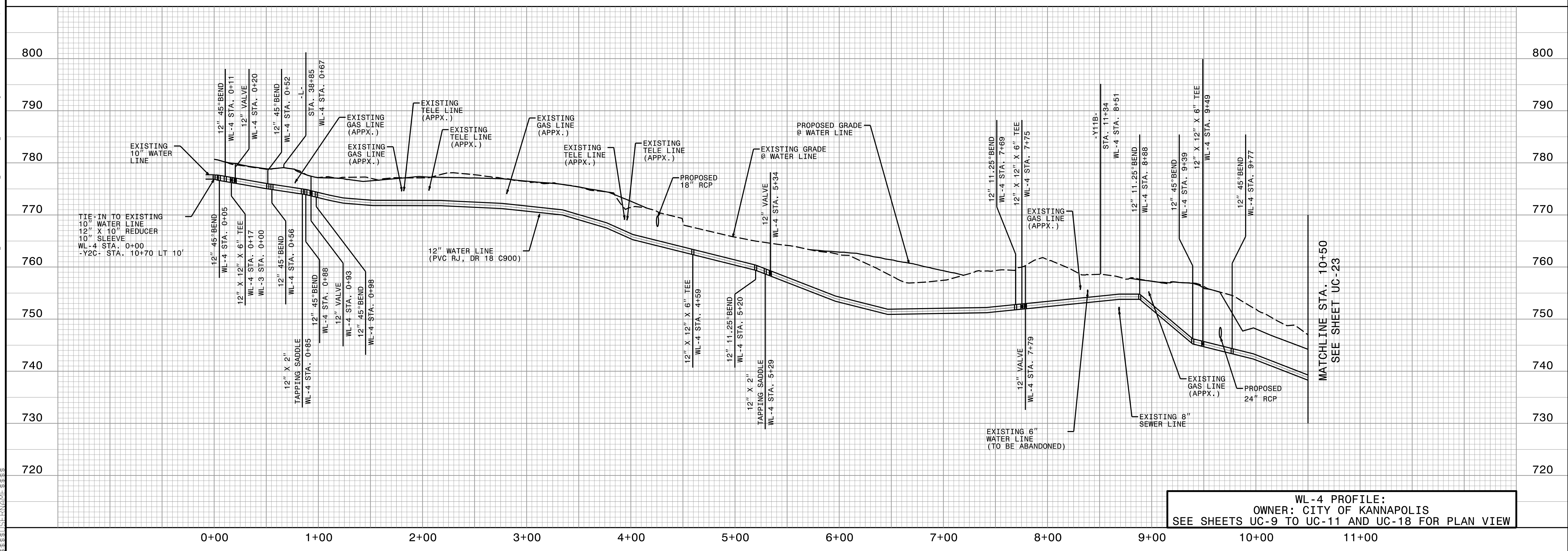
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PROJECT REFERENCE NO. <b>Y-4810K</b>	SHEET NO. <b>UC-22</b>
DESIGNED BY: <b>JKC</b>	
DRAWN BY: <b>JNA</b>	
CHECKED BY: <b>JKC</b>	
APPROVED BY: <b>CLS</b>	
REVISED:	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151
UTILITY CONSTRUCTION PLANS ONLY	

### UTILITY CONSTRUCTION



**WL-3 PROFILE:  
 OWNER: CITY OF KANNAPOLIS  
 SEE SHEET UC-9 FOR PLAN VIEW**



**WL-4 PROFILE:  
 OWNER: CITY OF KANNAPOLIS  
 SEE SHEETS UC-9 TO UC-11 AND UC-18 FOR PLAN VIEW**

25-001-2022-10-5-56 PROJECTS\2017\A2017401.000\Y-4810K\Design\Utilities\Engineering\UC\Proj\Y4810K\_Ut\_UC22.plt\_psh.dgn  
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 401 Harrison Oaks Blvd., Suite 220 Cary, NC 27513

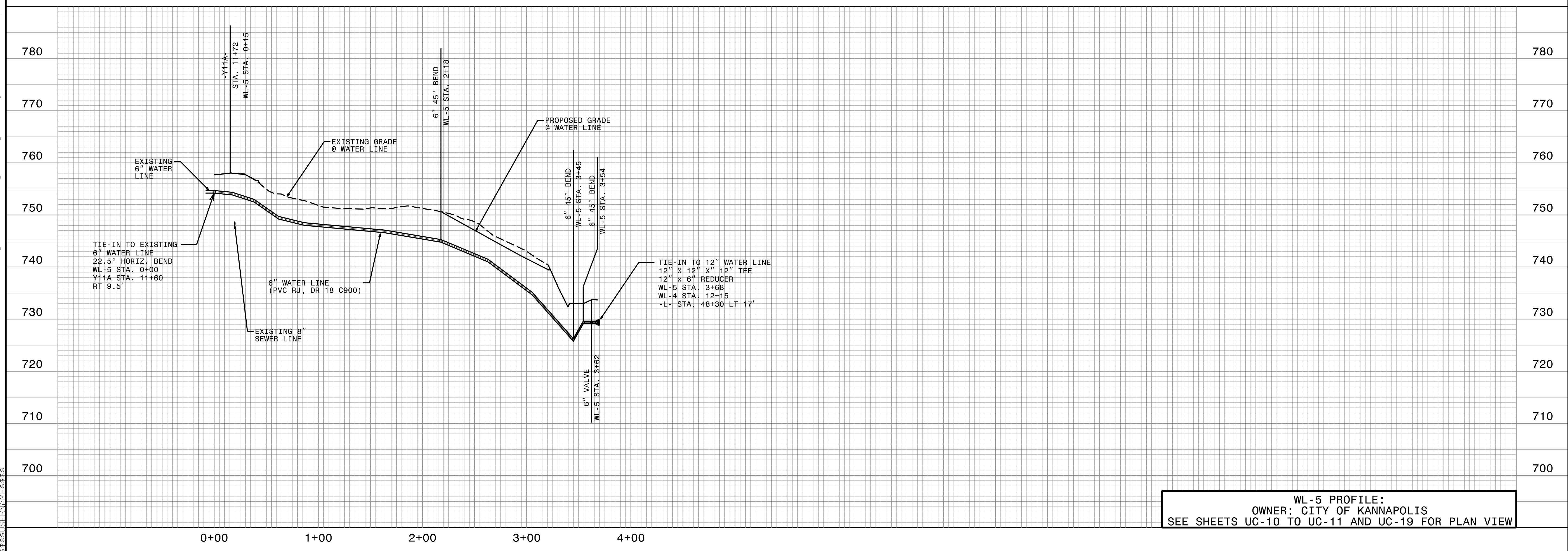
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 UNLESS ALL SIGNATURES COMPLETED**

PROJECT REFERENCE NO. <b>Y-4810K</b>	SHEET NO. <b>UC-23</b>
DESIGNED BY: <b>JKC</b>	
DRAWN BY: <b>JNA</b>	
CHECKED BY: <b>JKC</b>	
APPROVED BY: <b>CLS</b>	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

### UTILITY CONSTRUCTION



**WL-4 PROFILE:**  
 OWNER: CITY OF KANNAPOLIS  
 SEE SHEETS UC-9 TO UC-11 AND UC-18 FOR PLAN VIEW



**WL-5 PROFILE:**  
 OWNER: CITY OF KANNAPOLIS  
 SEE SHEETS UC-10 TO UC-11 AND UC-19 FOR PLAN VIEW

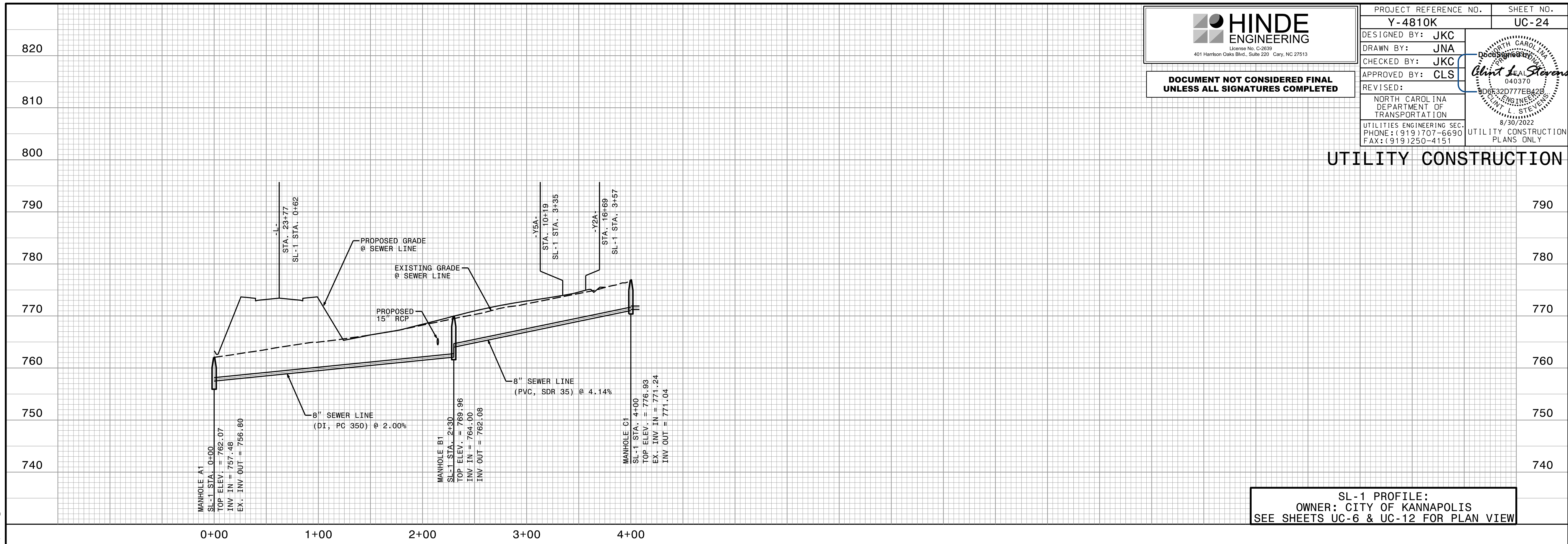
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PROJECT REFERENCE NO. <b>Y-4810K</b>	SHEET NO. <b>UC-24</b>
DESIGNED BY: <b>JKC</b>	
DRAWN BY: <b>JNA</b>	
CHECKED BY: <b>JKC</b>	
APPROVED BY: <b>CLS</b>	
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### UTILITY CONSTRUCTION



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